

**NOCCHI**  
**ELECTRIC PUMPS**  
**CATALOGUE**

50Hz



# A LEADER IN WATER TECHNOLOGY

The Pentair Water Group is one of the world's leading companies in the planning and manufacture of innovative products and systems suitable in any situation requiring the treatment, transportation and storage of water. The activity and success of the Group is based on values such as constant improvement, the continuous development of new products, high-performance, competence, business ethics and market leadership. Pentair's employees share personal values such as accountability, deep respect for people and the environment and a candid and practical work style. Strong customer relationships and high quality standards allow Pentair Water to rank amongst the leading producers of technology and instruments for water treatment.

## **SAFE, CLEAN WATER**

Providing clean, safe water to an ever-growing portion of the population is the Mission of Pentair Water: a valid organization is engaged to serve our customers in an efficient manner through production plants located in every corner of the world and specialized sales and marketing networks.



## **SAFE, CLEAN WATER**

Vertical and horizontal centrifugal pumps; submersible pumps for domestic, commercial, agricultural and industrial use; pumps for the drainage of clear and wastewaters; pressure booster units and fire-fighting systems.



## **FILTRATION**

Industrial, residential and commercial filtration systems; filter cartridges, components for the filtration of drinking water, pumps for mobile homes and boats and pumps and accessories for applications in industry and the catering service.



## **WATER TREATMENT**

Residential, commercial and industrial water conditioning control valves; fibre-glass wound expansion tanks and vessels; water storage tanks.



## **POOL AND SPA**

A complete range of pool/spa equipment and accessories: filters, pumps, heating and lighting systems and cleaning accessories; dosing and control systems and products and accessories for fountains and ponds.



**NOCCHI**

# WATER ENERGY

WE PUT ENERGY INTO YOUR WATER

Established in 1977, Nocchi is today part of the Pentair Water Group. For more than 30 years we have been committed to the design and production of electric water pumps providing our customers with quality products and concrete solutions for all their needs. Within the wide Nocchi range, engineering firms and plumbing and heating/cooling distributing centres can find products and systems which meet any need with regards to water supply and pressurization in the realm of residential and commercial building, irrigation and industry applications.



### **FIRE-FIGHTING SYSTEMS AND PRESSURIZATION SYSTEMS**

Vertical and horizontal centrifugal pumps. Complete systems for the transfer and pressurization of water. Fire-fighting systems.



### **ELECTRIC PUMPS FOR RESIDENTIAL USE**

Submersible pumps, self-priming pumps, multistage centrifugal pumps and compacting pumping systems for domestic water supply, irrigation and the re-utilization of harvested rainwater.



### **ELECTRIC PUMPS FOR DRAINAGE**

Pumps for the transfer of clear, dirty and wastewaters and sewage. Pumps for numerous applications (water in basins, tanks, pumping stations etc.)



### **ELECTRIC PUMPS FOR OPEN AND DRILLED WELLS**

Submersible pumps for irrigation and pumping underground waters.

# PENTAIR WATER ITALY: THE PLANT IN PISA BECOMES 100% GREEN



Thanks to the creation of a sophisticated photovoltaic system located on the roof of the building, the Pentair Water plant in Pisa has become the first plant able to produce **100% of**

**the energy needed for productive activities.**

4100 solar panels that generate up to **1,280,000 kWh** each year have been installed on a surface of 11,000 m<sup>2</sup>.

One of the greatest advantages includes a reduction of CO<sub>2</sub> emissions equal to **678 ton/year**.

Our customers are assured that the products coming from the Pentair Water plant in Pisa are completely made by using renewable energy.

The remarkable results achieved by the installation of the solar panels are visible in real time on the various screens located within the plant.

Each activity carried out within the plant in Pisa is continuously improved aiming at the utmost energy savings and

minimum environmental impact.

In the light of the initiatives undertaken and future plans, we can certainly say that Pentair Water is a leader in the management of its business characterized by:

- Maximum environmental friendliness
- Maximum energy savings
- Better safety conditions for workers
- Maximum respect for health

# SUMMARY

PRODUCT	DESCRIPTION	PAGE
CPS10	FREQUENCY CHANGER	6
CPS3-10	THREEPHASE FREQUENCY CHANGER	16
VLR	VERTICAL MULTISTAGE CENTRIFUGAL PUMPS	23
VLRI/X	VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL	46
ACCESSORIES VLR/VLRI/VLRX	CONNECTIONS AND FLANGES	68
MULTINOX-VE	VERTICAL MULTISTAGE CENTRIFUGAL PUMPS	70
SSCX	CLOSE-COUPLED, SINGLE-IMPELLER CENTRIFUGAL PUMP FEATURING AXIAL SUCTION AND RADIAL DISCHARGE	73
DHR	CENTRIFUGAL MULTICELLULAR ELECTRIC PUMPS	75
DHI	CENTRIFUGAL MULTICELLULAR ELECTRIC PUMPS IN STAINLESS STEEL AISI 316	81
MCX	MULTISTAGE CENTRIFUGAL PUMPS	85
MULTINOX-XC	MULTISTAGE CENTRIFUGAL PUMPS	87
MULTINOX	MULTISTAGE CENTRIFUGAL PUMP	89
MAX	SELF-PRIMING MULTISTAGE CENTRIFUGAL PUMPS	91
MULTINOX-A	SELF-PRIMING MULTISTAGE CENTRIFUGAL PUMPS	94
JET	SELF-PRIMING CAST IRON PUMPS	96
JETINOX	SELF-PRIMING STAINLESS STEEL PUMPS	100
NRM	CLOSE-COUPLED CENTRIFUGAL PUMPS (2 - 4 POLES)	102
NRB	HORIZONTAL CENTRIFUGAL PUMPS WITH BASE-PLATE AND COUPLING (2 AND 4 POLES)	119
CM	HORIZONTAL SINGLE-STAGE CENTRIFUGAL PUMPS	134
CB	TWIN IMPELLER CENTRIFUGAL PUMPS	137
PRATIKA	MULTISTAGE CENTRIFUGAL SUBMERSIBLE PUMPS FOR CLEAR WATER	139
DOMINATOR 4	4" MULTISTAGE CENTRIFUGAL SUBMERSIBLE PUMPS COMPLETE WITH MOTOR	141
DOMINATOR 5	SUBMERSIBLE MULTISTAGE CENTRIFUGAL PUMP FOR CLEAR WATER	144
SCM 4 Plus	4" MULTISTAGE CENTRIFUGAL SUBMERSIBLE PUMPS COMPLETE WITH MOTOR	146
SCM 4 HF 400	4" MULTISTAGE CENTRIFUGAL SUBMERSIBLE PUMPS COMPLETE WITH MOTOR	155
SA	6" MULTISTAGE SUBMERSIBLE PUMPS COMPLETE WITH MOTOR	158
DRENOX	SUBMERSIBLE SUMP PUMPS FOR DRAINING CLEAR WATER	166
OMNIA	SUBMERSIBLE SUMP PUMPS FOR DIRTY WATER	169
BIOX XS	SUBMERSIBLE EFFLUENT VORTEX PUMPS FOR DIRTY WATER	171
PRIOX	SUBMERSIBLE EFFLUENT VORTEX PUMPS FOR DIRTY WATER	173
SIMER	CENTRIFUGAL SUBMERSIBLE PUMPS FOR DRAINING CLEAR WATER	175
VERSAILLES	SUBMERSIBLE PUMPS FOR FOUNTAINS AND WATER FEATURES	177
EXPANSION VESSEL	COMPOSITE MATERIAL - STAINLESS STEEL - PAINTED STEEL	180
FLUSSCONTROL - F. BASIC	ELECTRONIC CONTROL AND PROTECTION DEVICE FOR ELECTRIC SINGLE PHASE PUMP	182
QES PLUS	SINGLE PHASE STARTER FOR THE CONTROL AND PROTECTION OF SUBMERGED ELECTRIC PUMPS, DIRECT START	183
AT	THREE PHASE ELECTRIC CONTROL PANEL FOR SUBMERSIBLE ELECTRIC PUMP OR SURFACE PUMP WITH DIRECT STARTING	184
ADRM	SINGLE PHASE STARTERS FOR THE CONTROL OF ONE OR TWO DRAINING AND SEWAGE ELECTRIC PUMPS	185
ARDR	THREE PHASE STARTERS FOR THE CONTROL OF ONE OR TWO DRAINING AND SEWAGE ELECTRIC PUMPS	186
ADRY	THREE PHASE STARTERS FOR THE CONTROL OF ONE OR TWO DRAINING AND SEWAGE ELECTRIC PUMPS, STAR-TRIANGLE START	187
ACCESSORIES		188
PRESSURE BOOSTER UNITS	GUIDE FOR THE SELECTION OF PRESSURE BOOSTER UNITS	192
AUTOJET	BOOSTER SET WITH ELECTRONIC CONTROL AND PROTECTION DEVICE	196
AUTOMAX	BOOSTER SET WITH ELECTRONIC CONTROL AND PROTECTION DEVICE	198
A-DHR	BOOSTER SET IN AISI 304 STAINLESS STEEL WITH ELECTRONIC CONTROL AND PROTECTION DEVICE	200
WATERPRESS	BOOSTER SETS WITH 24 LT HORIZONTAL EXPANSION TANK	202
WATERPRESS INOX	BOOSTER SET WITH 24 LT HORIZONTAL EXPANSION TANK	204
WATERPRESS INOX 50 L	BOOSTER SET WITH 50 LT HORIZONTAL EXPANSION TANK	206
WATERPRESS SUPERINOX	BOOSTER SET WITH 24 LT HORIZONTAL EXPANSION TANK	208

## NOCCHI CPS 10 FREQUENCY CHANGER

EASY INSTALLATION, ENERGY SAVING, SILENT RUNNING, RELIABILITY

CPS energy savings control system keeps constant delivery when pressure variations occur. CPS is a frequency converter integrated into the pump which adjusts motor speed so as to constantly provide users with the same pressure, even when demand for water changes. The main applications for which CPS offers elevated comfort and benefits are: home pressurization, irrigation, greenhouses, light industry, fountains and creative water displays.

The system consists on an electric pump operated by an electronic control system [speed variator] that enables the delivery of constant pressure by reducing or increasing the flow rate based on water demand. In case of an excessive system pressure decrease, the CPS starts the pump and regulates its speed until the operating pressure

is re-established. The pump's speed depends on water demand. If water consumption increases, the control system raises the speed of the pump up to the maximum set value. If water consumption decreases the speed of the pump is reduced up to its minimum. If there is no further water demand the pump stops.



### APPLICATIONS

- Pressure boosting
- Irrigation
- Industrial washing equipment
- Water distribution
- Building

### PROTECTION DEVICES

- Dry running
- Overtemperature
- Overcurrent
- Frost protection through ext. device

### TECHNICAL FEATURES

- Power input: 1x230 Vac  $\pm$  10 %.
- Output voltage: 3x230 Vac  $\pm$  10 %
- Max nominal power: 1,5 kW
- Input frequency: 50/60 Hz  $\pm$  3%
- Max output current: 6.5 Amp
- Protection IP55 (in case of installation on motors with a protection  $\geq$  IP55)
- Ambient temperature from +0°C to +40°C
- Wave type: sinusoidal
- Input filter in compliance with EMC directive
- Pressure transmitter 0 - 5 Volt - 0 - 10 Bar
- Set-point 2
- Connections RS 485 port
- Free contacts 3 (ext set point, alarm, system inhibition)

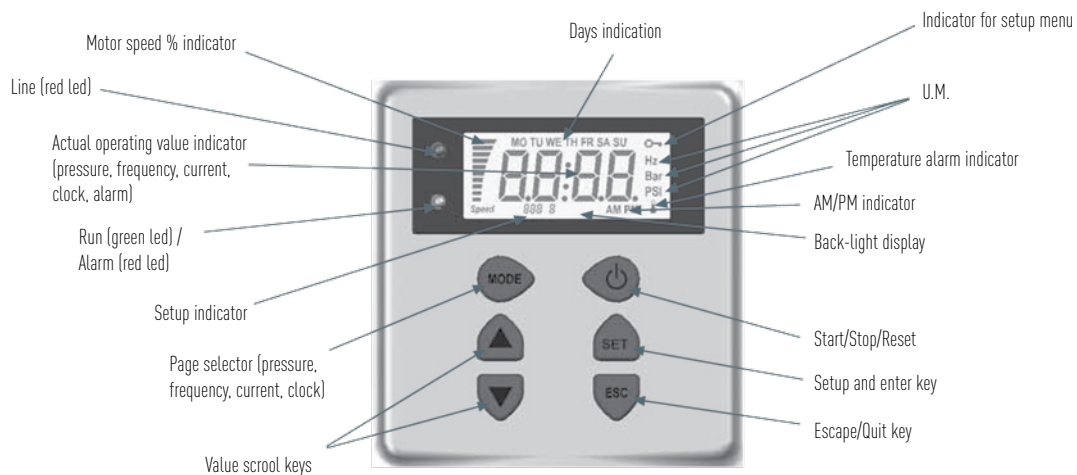
# NOCCHI CPS 10

## FREQUENCY CHANGER

### VERSIONS

VERTICAL	HORIZONTAL	SELF PRIMING
CPS10/VLR 2B-60 A	CPS10/DHI 45	CPS10/MAX 120/60
CPS10/VLR 2B-110 A	CPS10/DHI 27	CPS10/MAX 80/60
CPS10/VLR 4-80 A	CPS10/DHR 9-40	CPS10/MULTINOX-A 200/40
CPS10/VLR 8-40 A	CPS10/DHR 45	CPS10/MULTINOX-A 200/65
CPS10/MULTINOX-VE 200/65	CPS10/MULTINOX 80/48	
CPS10/MULTINOX-VE 200/40	CPS10/MULTINOX 120/60	

### CONTROL PANEL

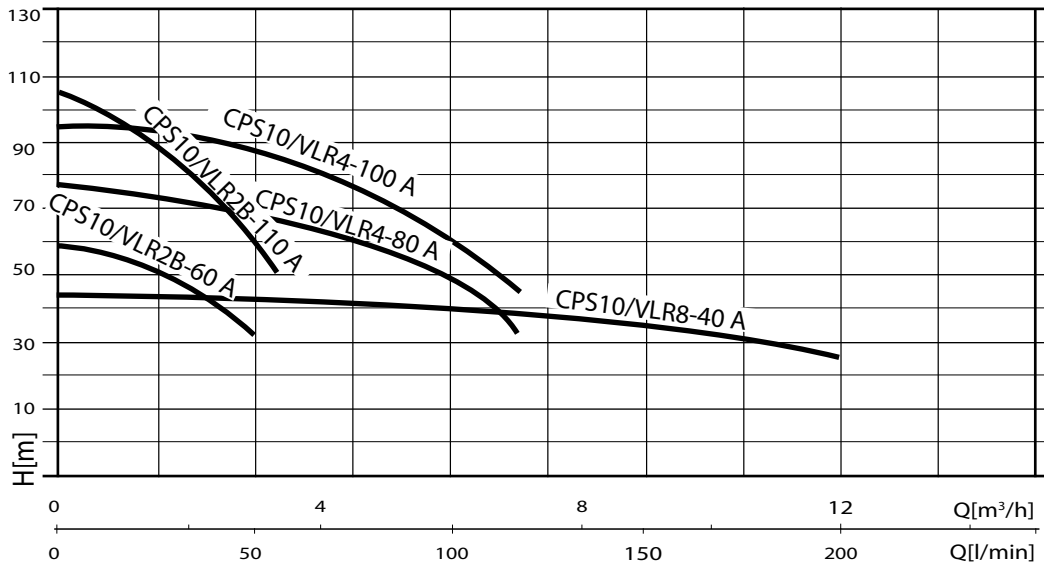




# NOCCHI CPS10/VLR FREQUENCY CHANGER



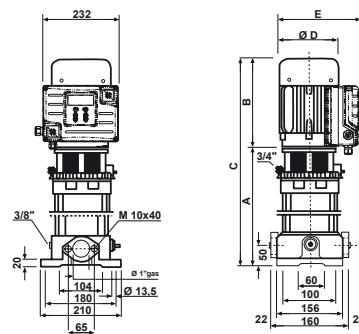
## HYDRAULIC PERFORMANCE



MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see VLR models

## PUMP PERFORMANCE

MODEL	P2		Volt	In (A)	Q	L/1'	0	10	20	30	40	50	60	80	100	120	150	175	200
	HP	kW					m³/h	0,6	1,2	1,8	2,4	3	3,6	4,8	6	7,2	10	10,5	12
CPS10/VLR 2B-60 A	1	0,75	1 - 230	5,9	m.c.a./m.c.v.	58	56	51	48	42	33								
CPS10/VLR 2B-110 A	1,5	1,1	1 - 230	10,2		105	100	93	84	74	60								
CPS10/VLR 4-80 A	2	1,5	1 - 230	13,7		77				71	69	67	59	50	37				
CPS10/VLR 4-100 A	3	1,75	1 - 230	14,7		94				89	86	82	73	61	44				
CPS10/VLR 8-40 A	2	1,5	1 - 230	13,7		44					42	41	41	40	38	35	30	26	



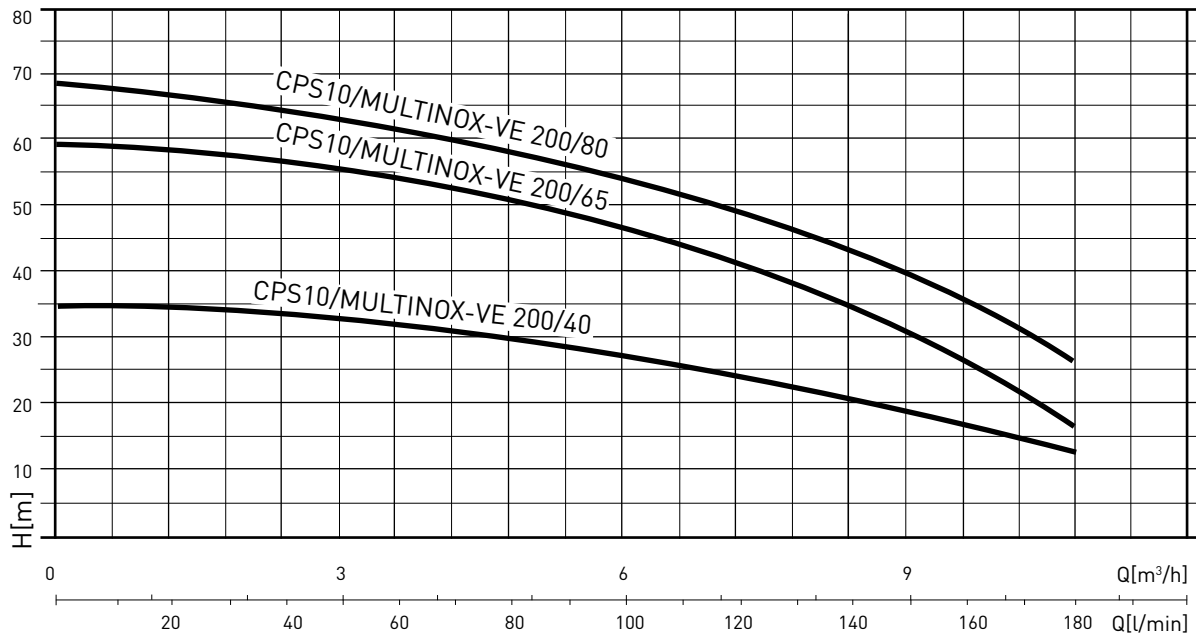
## TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.					Weight Kg
	A	B	C	D	E	
CPS10/VLR 2B-60 A	296	237	533	160	135	28
CPS10/VLR 2B-110 A	386	237	623	160	135	38
CPS10/VLR 4-80 A	423	265	688	185	155	35
CPS10/VLR 4-100 A	477	265	742	185	155	38
CPS10/VLR 8-40 A	420	265	685	185	155	42

# NOCCHI CPS10/MULTINOX-VE FREQUENCY CHANGER



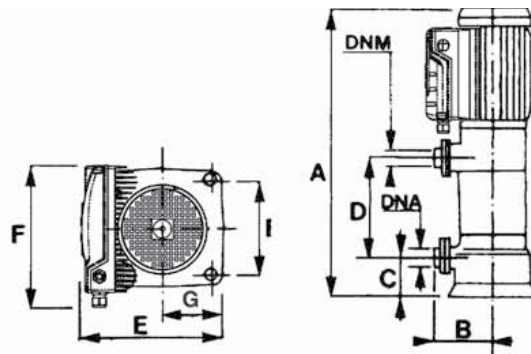
## HYDRAULIC PERFORMANCE



MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see MULTINOX-VE models

## PUMP PERFORMANCE

MODEL	P2		Volt	In (A)	Q	L/1'	0	20	60	100	140	180
	HP	kW				m³/h	0	1,2	3,6	6	8,4	10,8
CPS10/MULTINOX-VE 200/40	1,5	1,1	1 ~ 230	8,7	m.c.a./m.c.w.	35	33,7	32,1	27,6	21,5	13,1	
CPS10/MULTINOX-VE 200/65	1,9	1,4	1 ~ 230	14,4		58	56,1	53,4	46	35,8	21,8	
CPS10/MULTINOX-VE 200/80	2,5	1,75	1 ~ 230	15,5		68	67,3	64,1	55,2	42,9	26,2	

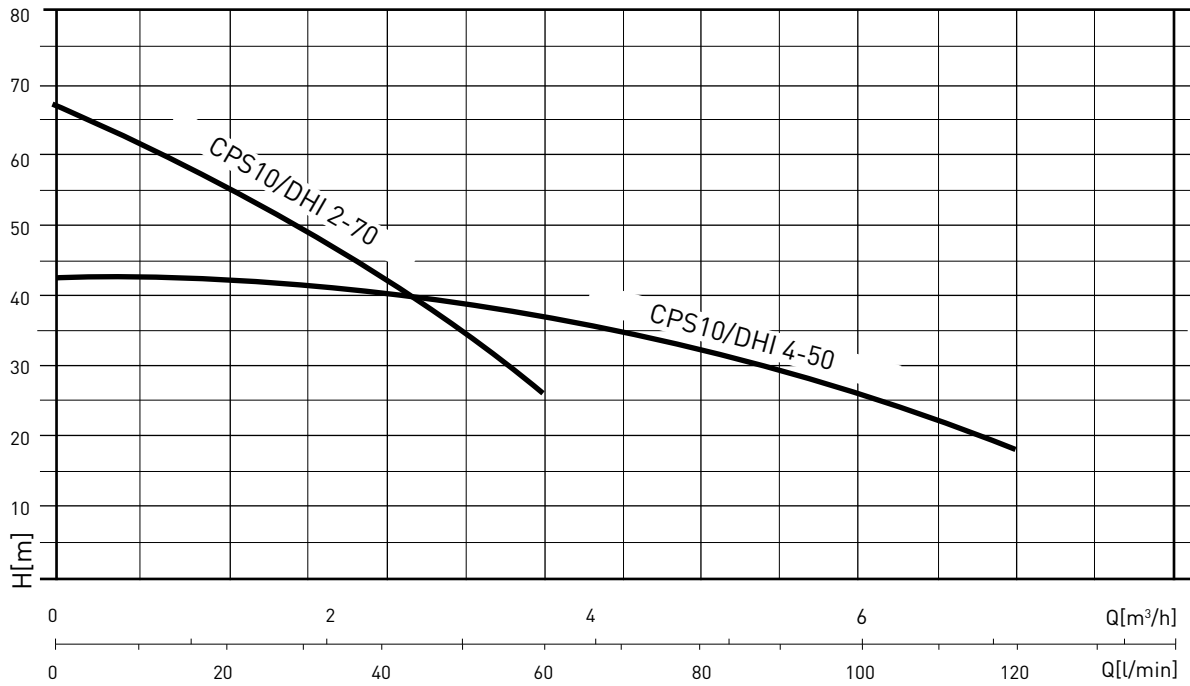


## TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.										Weight Kg
	A	B	C	D	E	F	G	I	DNA	DNM	
CPS10/MULTINOX-VE 200/40	438	115	37	143	232	220	72,5	145	1" 1/4	1" 1/4	21,2
CPS10/MULTINOX-VE 200/65	504	115	37	203	232	220	72,5	145	1" 1/4	1" 1/4	25,1
CPS10/MULTINOX-VE 200/80	525	115	37	230	232	220	72,5	145	1" 1/4	1" 1/4	27

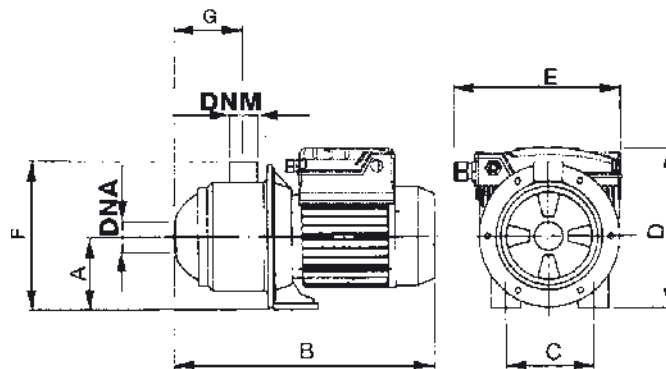
# NOCCHI CPS10/DHI FREQUENCY CHANGER

## HYDRAULIC PERFORMANCE



## PUMP PERFORMANCE

MODEL	P2		Volt	In (A)	Q	L/1'	0	10	20	30	40	50	60	80	100	120
	HP	kW				m³/h	0	0,6	1,2	1,8	2,4	3	3,6	4,8	6	7,2
CPS10/DHI 2-70	1,25	0,9	1 ~ 230	10,6	m.c.a./ m.c.w.		68	63	57	50	43	35	26			
CPS10/DHI 4-50	1,25	0,9	1 ~ 230	10,6			43				42	39	36	33	27	18

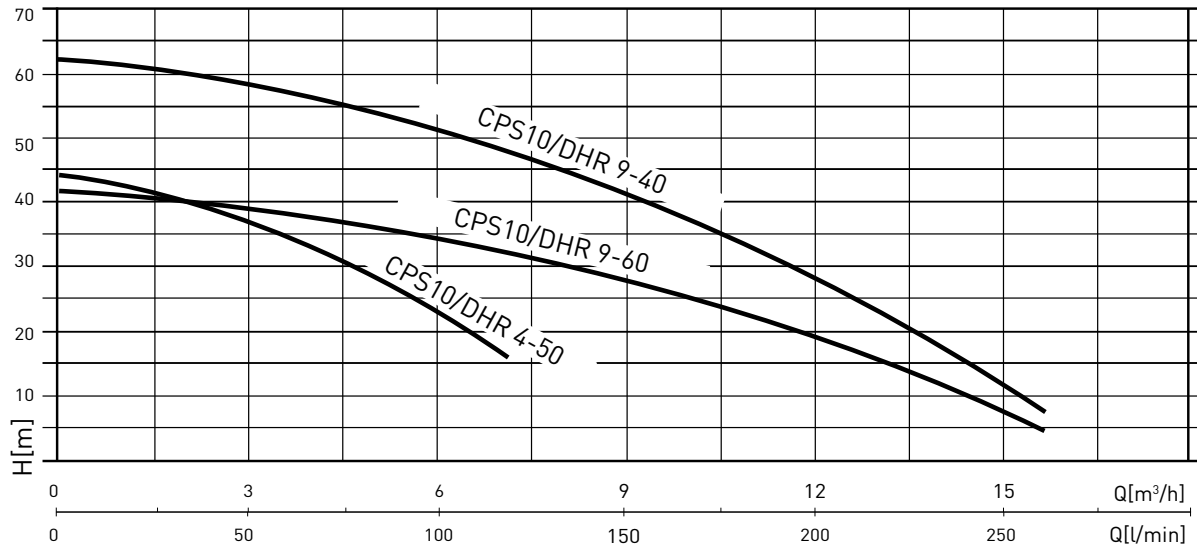


## TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.									Weight Kg
	A	B	C	D	E	F	G	DNA	DNM	
CPS10/DHI 2-70	105	460	141	245	232	235	135	1" 1/4	1" 1/4	17,4
CPS10/DHI 4-50	105	460	141	245	232	235	135	1" 1/4	1" 1/4	17,4

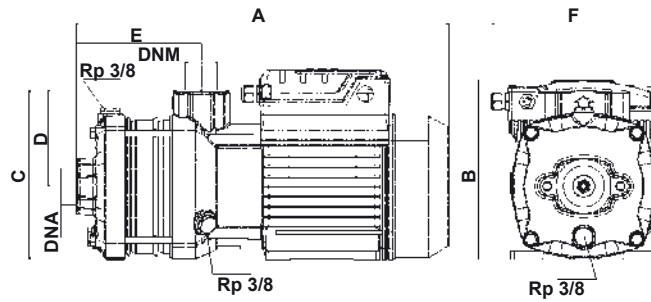
# NOCCHI CPS10/DHR FREQUENCY CHANGER

## HYDRAULIC PERFORMANCE



## PUMP PERFORMANCE

MODEL	P2		Volt	In (A)	Q	L/1'	0	40	60	80	100	120	160	200	240	260
	HP	kW				m³/h	0	2,4	3,6	4,8	6	7,2	9,6	12	14,4	15,6
CPS10/DHR 4-50	1,5	0,9	1 - 230	9,1	m.c.a./m.c.w.	44	39	35	30	24	17					
CPS10/DHR 9-40	1,74	1,3	1 - 230	12,5		41,5	40	39	38	35	33	27	19	10	5	
CPS10/DHR 9-60	2,4	1,8	1 - 230	15,8		62	60	58	56	52	49	40	29	14	6	

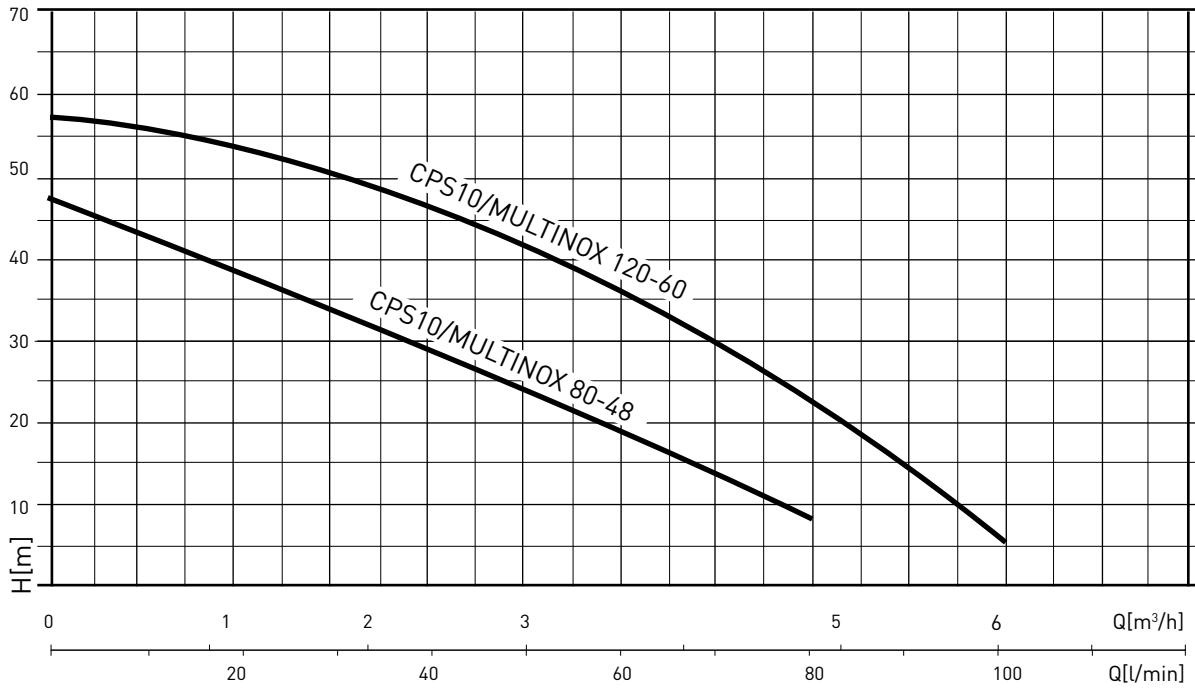


## TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.								Weight Kg
	A	B	C	D	E	F	DNA	DNM	
CPS10/DHR 4-50	445	225	155	65	190	232	1" 1/4	1"	18
CPS10/DHR 9-40	408	215	185	105	137	232	1" 1/4	1" 1/4	21,1
CPS10/DHR 9-60	468	215	185	105	198	232	1" 1/2	1" 1/4	26

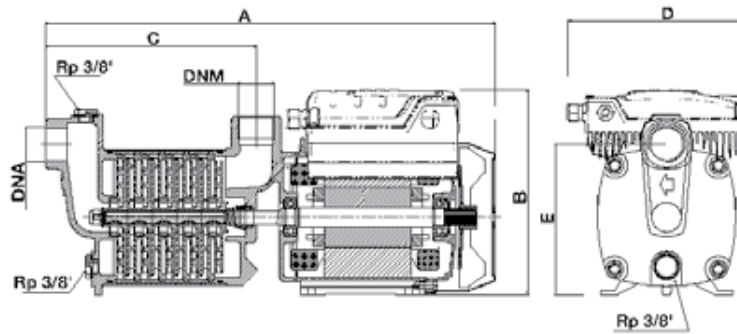
# NOCCHI CPS10/MULTINOX FREQUENCY CHANGER

## HYDRAULIC PERFORMANCE



## PUMP PERFORMANCE

MODEL	P2		Volt	In (A)	Q	L/1'	0	20	40	60	80	100
	HP	kW				m³/h	0	1,2	2,4	3,6	4,8	6
CPS10/MULTINOX 80/48	0,75	0,55	1 - 230	6,5	m.c.a./ m.c.w.	48	37	29	20	8		
CPS10/MULTINOX 120/60	1,2	0,9	1 - 230	8,5		58	53	46	36	25	4	

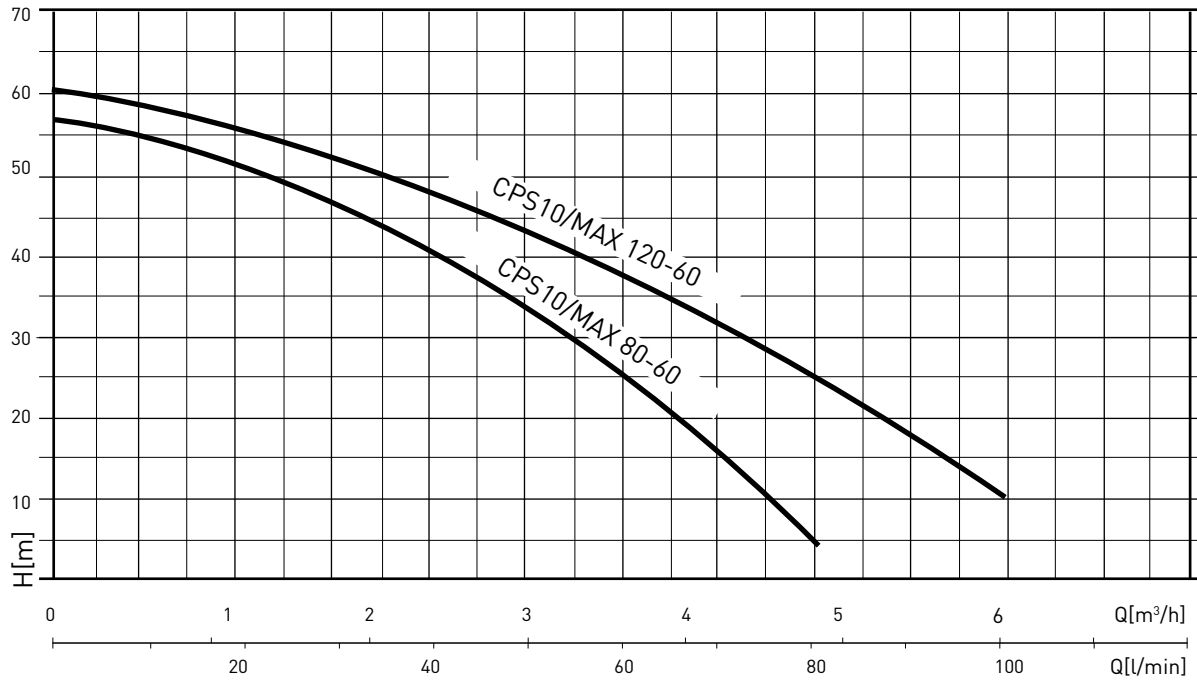


## TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.							Weight Kg
	A	B	C	D	E	DNA	DNM	
CPS10/MULTINOX 80/48	389	205	171	232	138	1"	1"	13,9
CPS10/MULTINOX 120/60	411	205	193	232	138	1"	1"	15,9

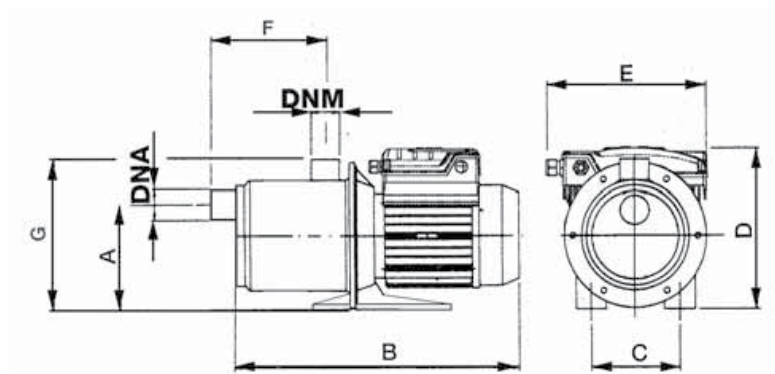
# NOCCHI CPS10/MAX FREQUENCY CHANGER

## HYDRAULIC PERFORMANCE



## PUMP PERFORMANCE

MODEL	P2		Volt	In (A)	Q	L/1' m³/h	0	20	40	60	80	100
	HP	kW					0	1,2	2,4	3,6	4,8	6
CPS10/MAX 80/60	1	0,75	1 - 230	7	m.c.a./ m.c.w.	57	50	40	27	3		
CPS10/MAX 120/60	1,2	0,9	1 - 230	8,5		60	55	48	36	26	10	

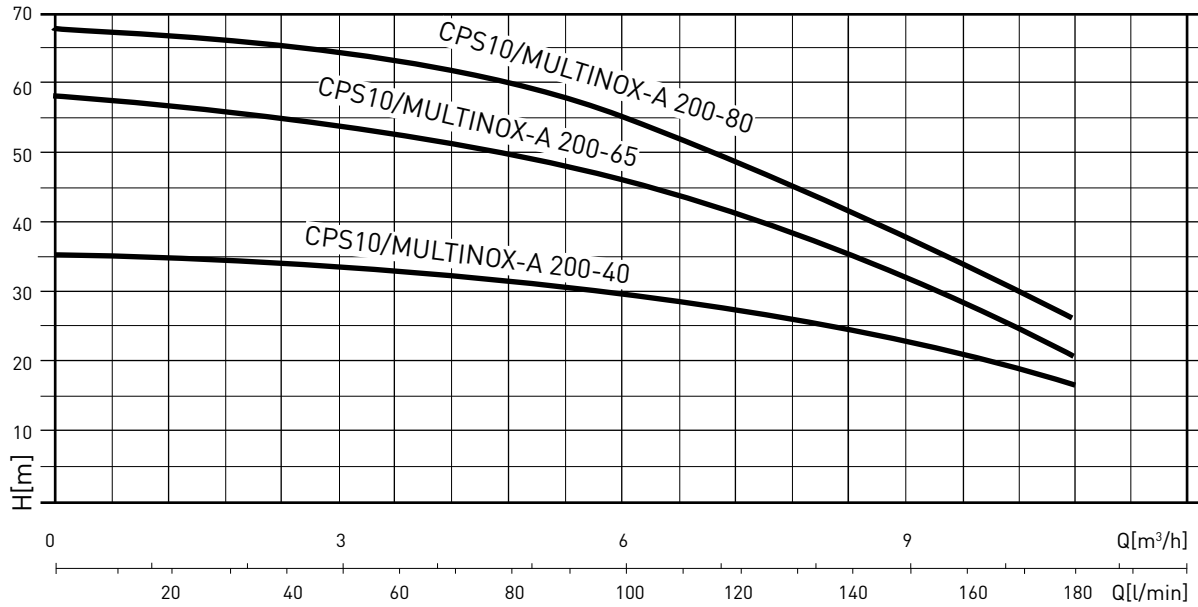


## TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.									Weight Kg
	A	B	C	D	E	F	G	DNA	DNM	
CPS10/MAX 80/60	129	415	99	220	232	165	182	1"	1"	11,8
CPS10/MAX 120/60	129	415	99	220	232	165	182	1"	1"	11,8

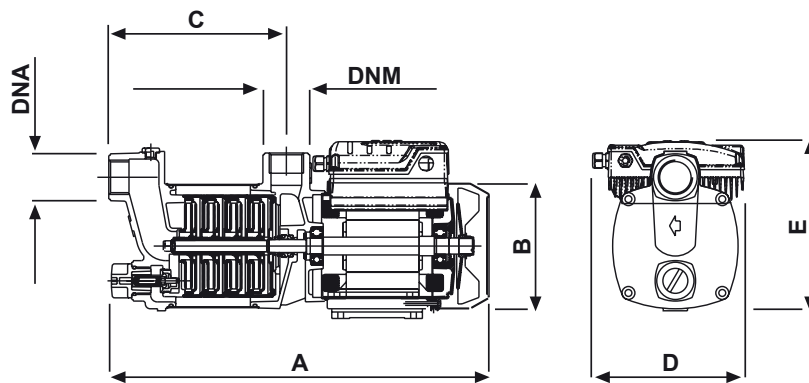
# NOCCHI CPS10/MULTINOX-A FREQUENCY CHANGER

## HYDRAULIC PERFORMANCE



## PUMP PERFORMANCE

MODEL	P2		Volt	In (A)	Q	L/1'	0	20	60	100	140	180
	HP	kW				m³/h	0	1,2	3,6	6	8,4	10,8
CPS10/MULTINOX - A 200/40	1,5	1,1	1 ~ 230	8,7	m.c.a./m.c.w.	35	33,7	32,1	27,6	21,5	13,1	
CPS10/MULTINOX - A 200/65	1,9	1,4	1 ~ 230	14,4		58	56,1	53,4	46	35,8	21,8	
CPS10/MULTINOX - A 200/80	2,5	1,75	1 ~ 230	15,5		68	67,3	64,1	55,2	42,9	26,2	

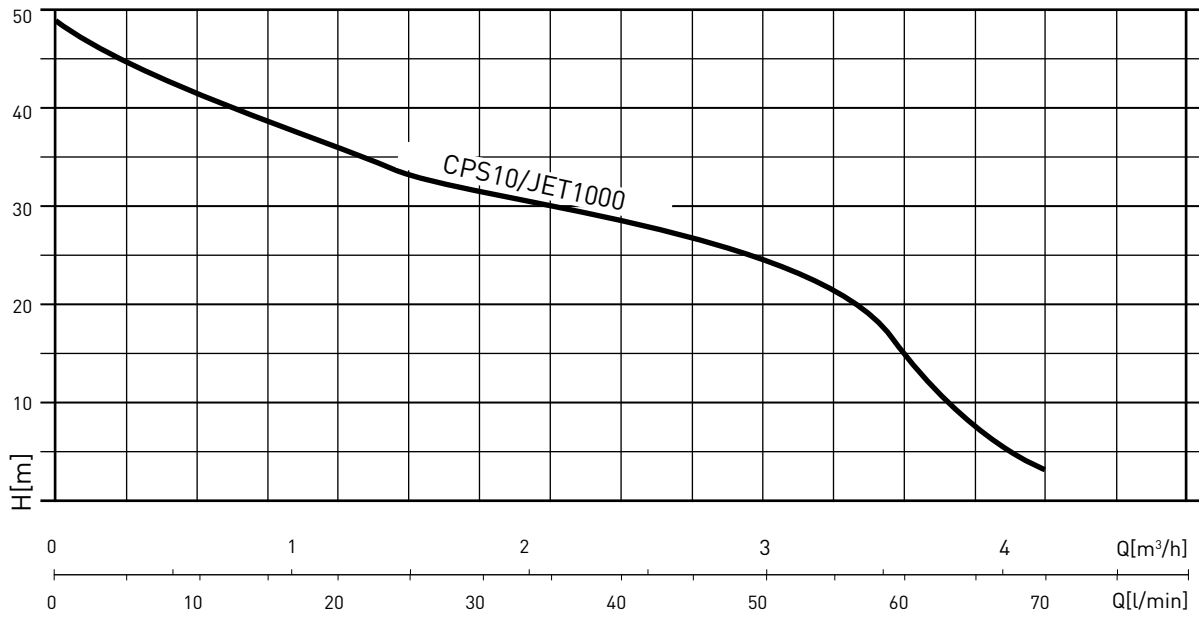


## TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.							Weight Kg
	A	B	C	D	E	DNA	DNM	
CPS10/MULTINOX - A 200/40	441	170	188	232	225	1" 1/4	1" 1/4	21,2
CPS10/MULTINOX - A 200/65	497	170	243	232	225	1" 1/4	1" 1/4	24
CPS10/MULTINOX - A 200/80	525	170	270	232	245	1" 1/4	1" 1/4	26

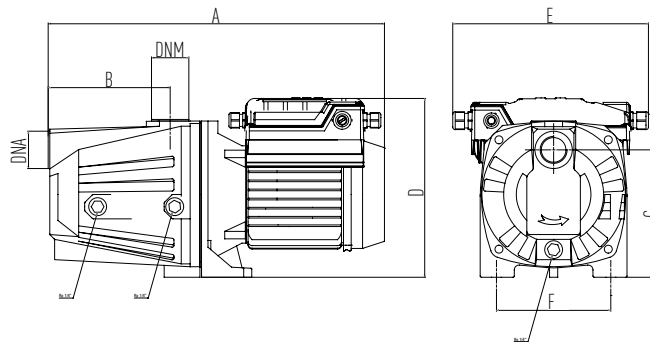
# NOCCHI CPS10/JET FREQUENCY CHANGER

## HYDRAULIC PERFORMANCE



## PUMP PERFORMANCE

MODEL	P2		Volt	In (A)	Q	L/1'	0	5	20	30	40	50	60	70
	HP	kW				m³/h	0	0,3	1,2	1,8	2,4	3	3,6	4,2
CPS10/JET 1000	1,36	1	1 - 230	6,5	m.c.a./ m.c.w.	49	45	36	32	28	25	15	15	3



## TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.							Weight Kg
	A	B	C	D	E	DNA	DNM	
CPS10/JET 1000	400	147	160	260	195	1"	1"	20,8



## NOCCHI CPS3-10 THREEPHASE FREQUENCY CHANGER



EASY INSTALLATION, ENERGY SAVING, FLEXIBLE WORKING SYSTEM

CPS energy savings control system keeps constant pressure when pressure variations occur. CPS is a frequency converter integrated into the pump which adjusts motor speed so as to constantly provide users with the same pressure, even when demand for water changes. Compact, reliable and easy to use CPS is suitable for various applications such as: irrigation; pressurization; water transfer; residential, commercial and industrial applications. CPS range shows an elegant design with a backlit graphic display which enables the user to check the operating status at any time.

CPS working features are simple and user's friendly. It feeds the electric motor of the pump adjusting (through a signal from pressure transducer) the motor's supply frequency according to the water demand. In this way the outgoing pressure is always constant

(its value is set on CPS as set point). CPS provides high levels of efficiency and greater flexibility in performance, while ensuring a high energy saving and avoiding the use of other control devices. The new CPS range shows multiple functions:

- Pressure measurement with possibility to handle two independent levels through an adjustable timer inserted internally or through external connection;
- Start and stop function;
- Internal clock
- Motor speed calculation
- Protection against dry running
- Over and under current protection
- Over and under voltage protection



### APPLICATIONS

- Pressure boosting
- Irrigation
- Water distribution
- Building
- Water transfer

### PROTECTION DEVICES

- Dry running
- Overtemperature
- Overcurrent
- Frost protection through ext. device

### TECHNICAL FEATURES

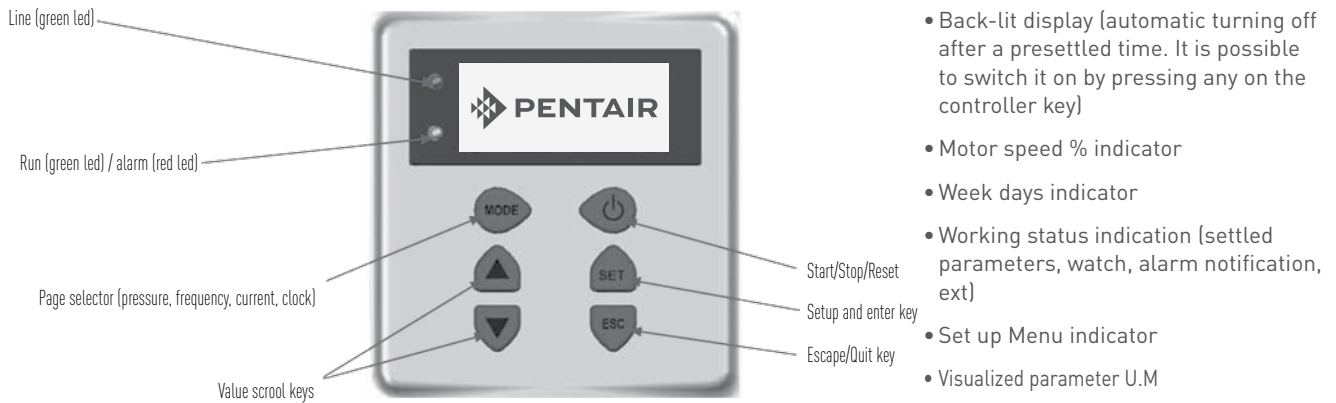
- Power input: 3x380 - 3x500 Vac  $\pm$  10 % sinusoidal 50/60 Hz
- Output voltage: 3x400 Vac  $\pm$  10 %
- Max nominal power: 7,5 kW
- Input frequency: 50/60 Hz + 3%
- Max output current: 16 Amp
- Protection IP55 (in case of installation on motors with a protection  $\geq$  IP55 )
- Max ambient temperature: + 50°C
- Wave type: sinusoidal
- Input filter: in compliance with EMC directive
- Pressure transmitter 0 - 5 Volt - 0 - 10 Bar 0 - 20 Bar according to pump model
- Set-point 2
- Connections RS 485 port
- Free contacts 3 (ext set point, alarm, system inhibition)

# NOCCHI CPS3-10

## THREEPHASE FREQUENCY CHANGER

### CONTROL PANEL

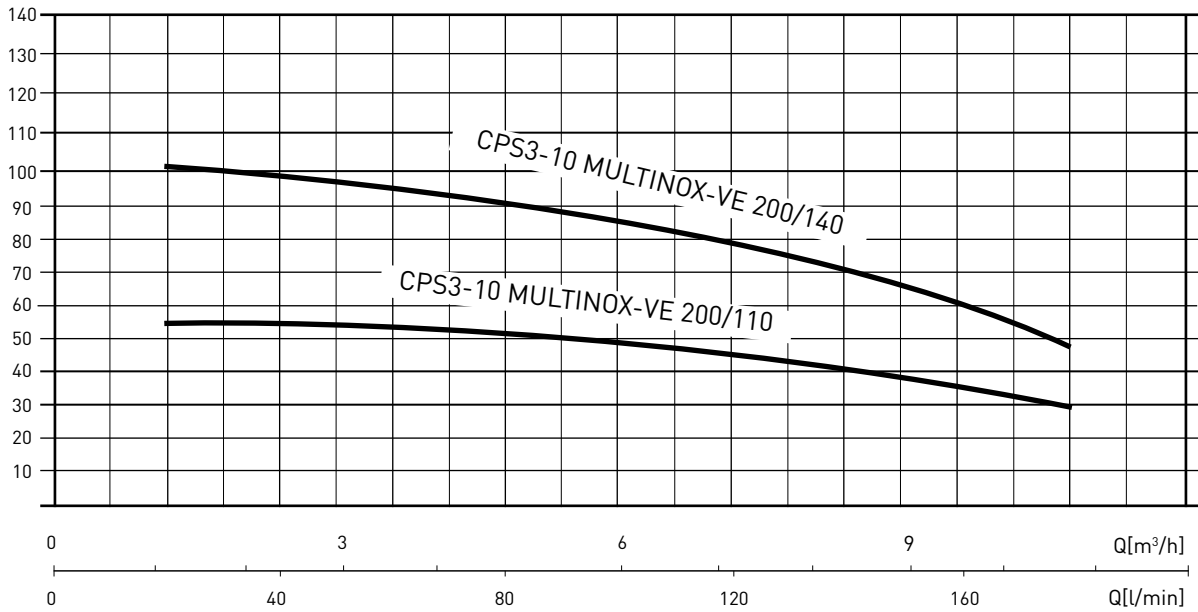
---



# NOCCHI CPS3-10 MULTINOX-VE

## THREEPHASE FREQUENCY CHANGER

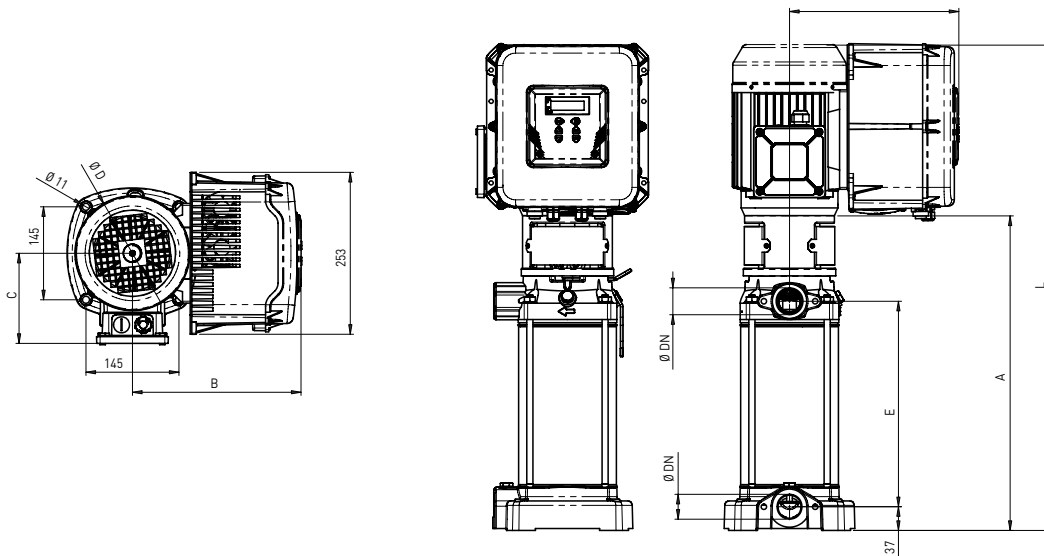
### HYDRAULIC PERFORMANCE



MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
 For efficiency characteristics see MULTINOX-VE models

### PUMP PERFORMANCE

MODEL	P2		Volt	In (A)	Q	L/1'	20	60	100	140	180
	HP	kW				m³/h	1,2	3,6	6	8,4	10,8
CPS3-10 MULTINOX-VE 200/110	3,5	2,6	3 ~ 400	7	m.c.a./ m.c.w.		54	51	46	39	30
CPS3-10 MULTINOX-VE 200/140	5,5	4,0	3 ~ 400	8,2			100	94	85	72	55



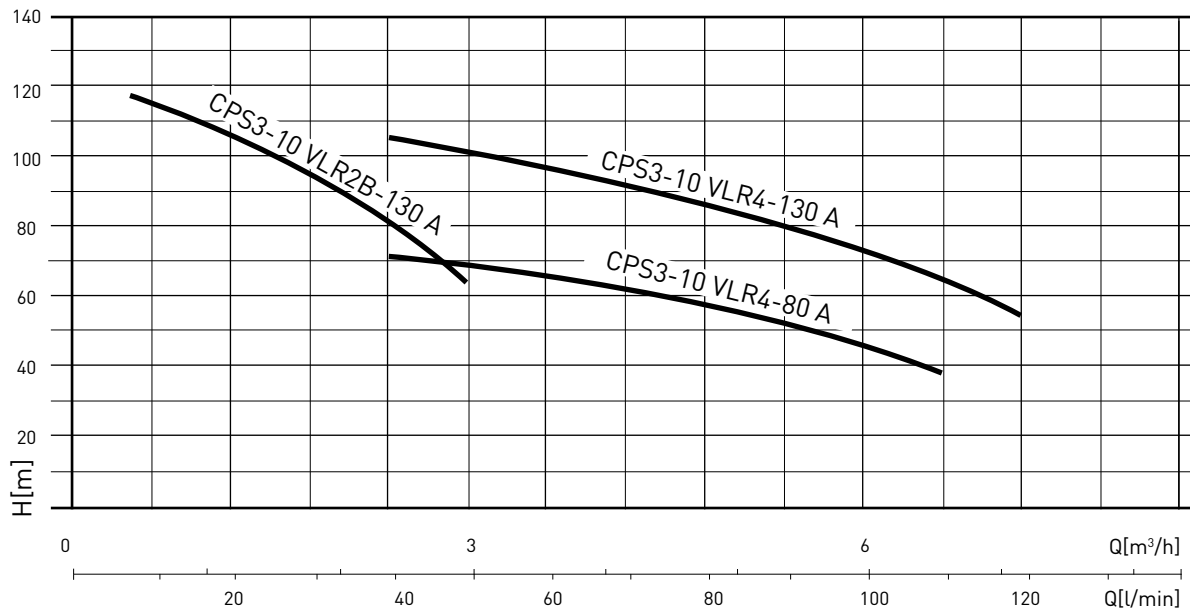
### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.							Weight Kg
	A	B	C	D	E	DN	L	
CPS3-10 MULTINOX-VE 200/110	491	265	140	177	320	1"1/4	760	42
CPS3-10 MULTINOX-VE 200/140	575	275	145	198	404	1"1/4	875	45

# NOCCHI CPS3-10 VLR

## THREEPHASE FREQUENCY CHANGER

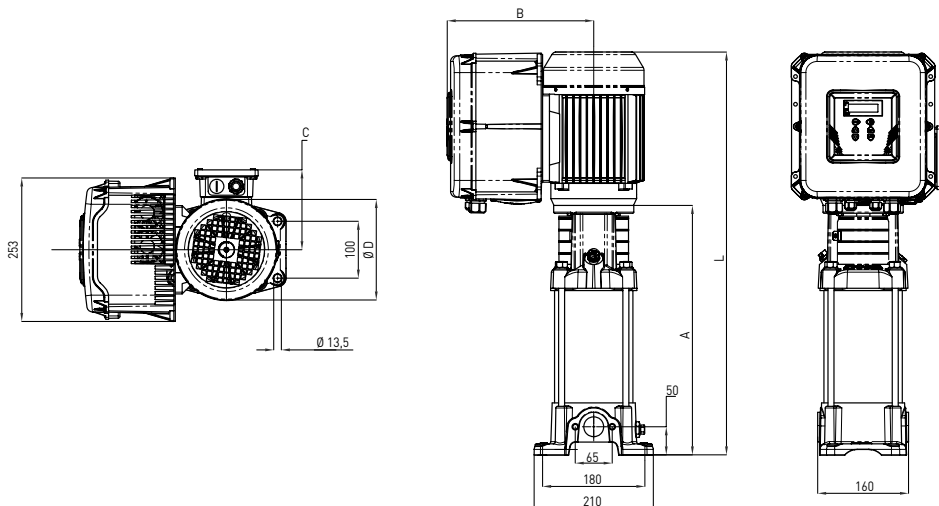
### HYDRAULIC PERFORMANCE



MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see VLR models

### PUMP PERFORMANCE

MODEL	P2		Volt	In (A)	Q	L/1'	10	20	30	40	50	60	80	100	120
	HP	kW					m³/h	0,6	1,2	1,8	2,4	3	3,6	4,8	6
CPS3-10 VLR 2B-130 A	2	1,5	3 - 400	3,7	m.c.a./m.c.w.		118	111	101	85	65				
CPS3-10 VLR 4-80 A	2	1,5	3 - 400	4						71	69	66	58	49	35
CPS3-10 VLR 4-120 A	3	2,2	3 - 400	5,8					106	103	99	87	73	53	

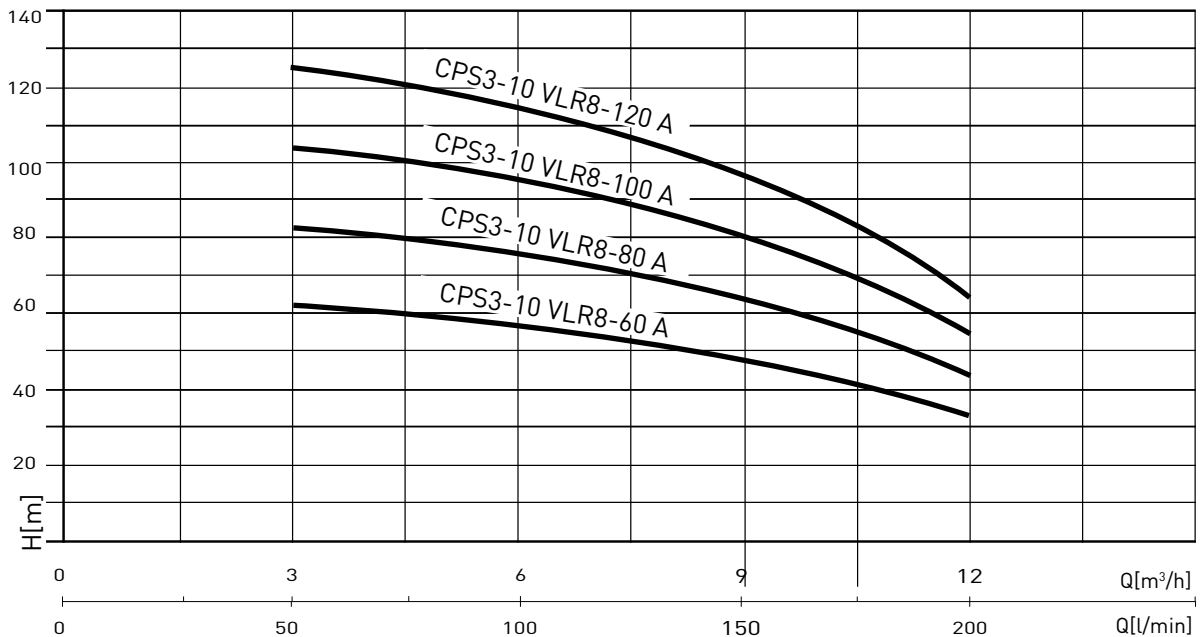


### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.					Weight Kg
	A	B	C	D	L	
CPS3-10 VLR 2B-130 A	440	258	140	177	725	43
CPS3-10 VLR 4-80 A	422	258	140	177	707	39
CPS3-10 VLR 4-120 A	530	258	140	177	815	43

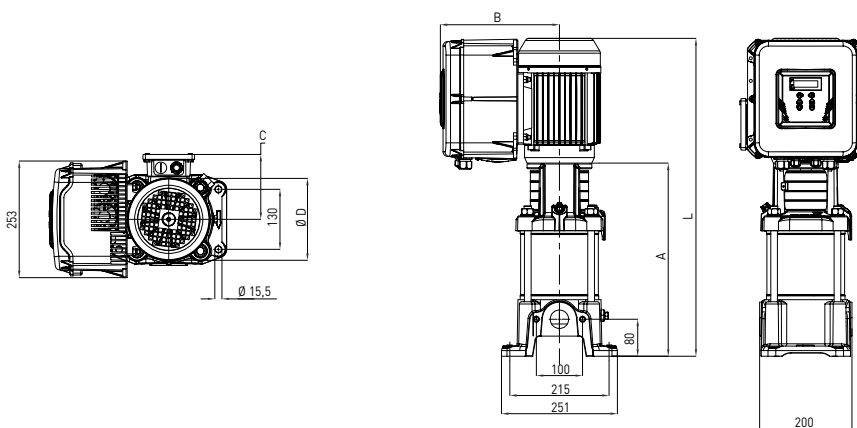
# NOCCHI CPS3-10 VLR THREEPHASE FREQUENCY CHANGER

## HYDRAULIC PERFORMANCE



## PUMP PERFORMANCE

MODEL	P2		Volt	In (A)	Q	L/1'	50	100	150	175	200
	HP	kW				m³/h	3	6	9	10,5	12
CPS3-10 VLR 8-60 A	3	2,2	3 ~ 400	5,2	m.c.a./m.c.w.		62	58	48	41	33
CPS3-10 VLR 8-80 A	3	3	3 ~ 400	6,7			82	77	64	55	44
CPS3-10 VLR 8-100 A	5,5	3	3 ~ 400	8,2			103	96	80	69	55
CPS3-10 VLR 8-120 A	5,5	4	3 ~ 400	9,9			124	115	96	82	65

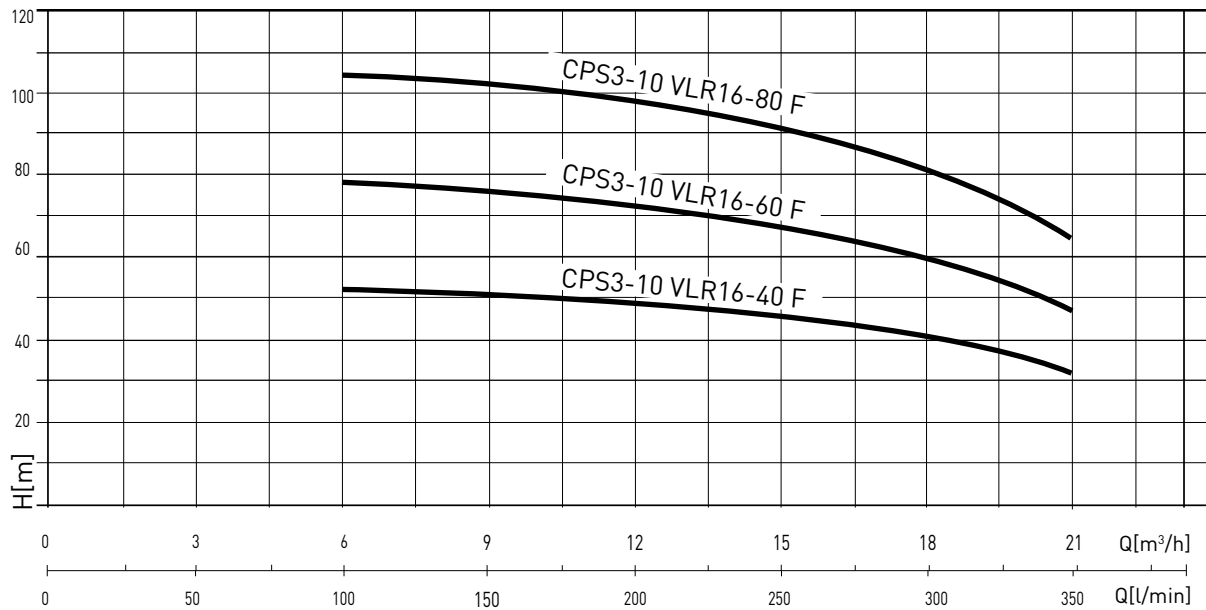


## TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.					Weight Kg
	A	B	C	D	L	
CPS3-10 VLR 8-60 A	450	258	140	177	735	49
CPS3-10 VLR 8-80 A	515	268	145	198	832	57
CPS3-10 VLR 8-100 A	575	268	145	198	832	58
CPS3-10 VLR 8-120 A	635	268	145	198	952	62

# NOCCHI CPS3-10 VLR THREEPHASE FREQUENCY CHANGER

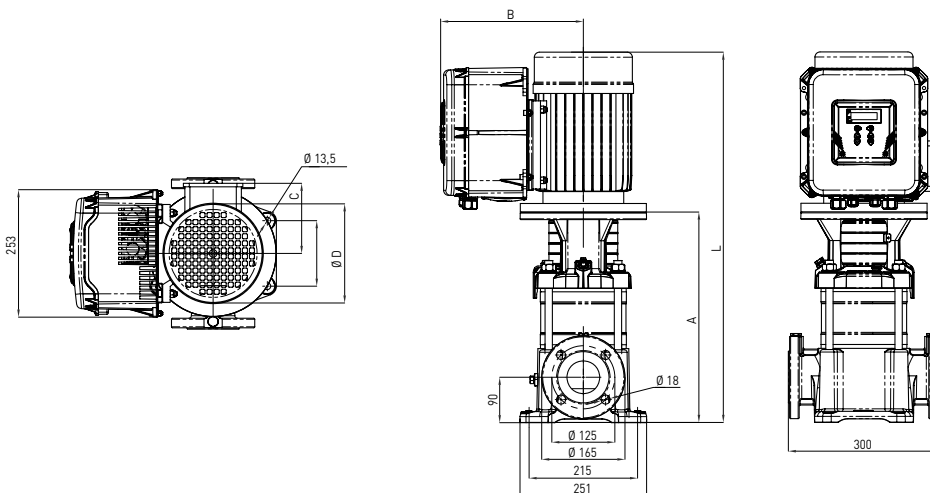
## HYDRAULIC PERFORMANCE



MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see VLR models

## PUMP PERFORMANCE

MODEL	P2		Volt	In (A)	Q	L/1'	100	200	250	300	350
	HP	kW				m³/h	6	12	15	18	21
CPS3-10 VLR 16-40 F	5,5	4,0	3 ~ 400	8,4	m.c.a./m.c.w.		52	49	46	40	32
CPS3-10 VLR 16-60 F	7,5	5,5	3 ~ 400	12,3			78	74	69	61	47
CPS3-10 VLR 16-80 F	10	7,5	3 ~ 400	15,1			104	98	92	81	63

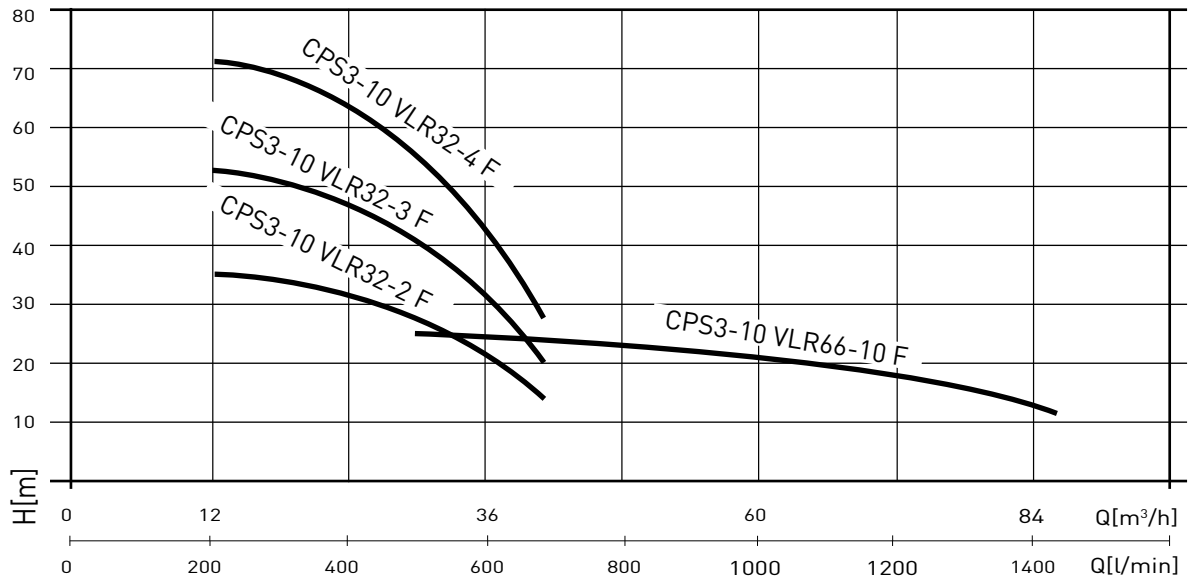


## TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.					Weight Kg
	A	B	C	D	L	
CPS3-10 VLR 16-40 F	462	285	145	198	780	65
CPS3-10 VLR 16-60 F	573	315	185	260	970	90
CPS3-10 VLR 16-80 F	663	315	185	260	1100	98

# NOCCHI CPS3-10 VLR THREEPHASE FREQUENCY CHANGER

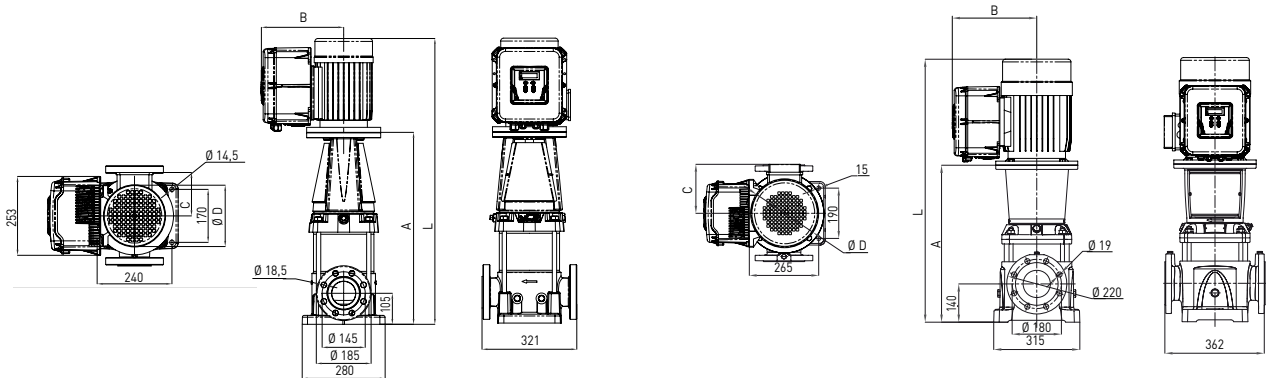
## HYDRAULIC PERFORMANCE



MEI > 0,1 - Benchmark MEI > 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see VLR models

## PUMP PERFORMANCE

MODEL	P2		Volt	In (A)	Q	L/1'	200	400	500	600	700	800	1000	1200	1300	1417		
	HP	kW					12	24	30	36	42	48	60	72	78	85		
CPS3-10 VLR 32-2 F	5,5	4,0	3 ~ 400	8,5	m.c.a./m.c.w.		35	31	27	22	14							
CPS3-10 VLR 32-3 F	7,5	5,5	3 ~ 400	12,9			53	47	41	33	20							
CPS3-10 VLR 32-4 F	10	7,5	3 ~ 400	15,8			71	63	55	44	27							
CPS3-10 VLR 66-10 F	7,5	5,5	3 ~ 400	13,5					26	25	24	23	21	18	16	13		



## TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.					Weight Kg
	A	B	C	D	L	
CPS3-10 VLR 32-2 F	650	285	145	220	975	100
CPS3-10 VLR 32-3 F	770	315	185	260	1160	110
CPS3-10 VLR 32-4 F	840	315	185	260	1270	127
CPS3-10 VLR 66-10 F	574	315	185	260	970	113

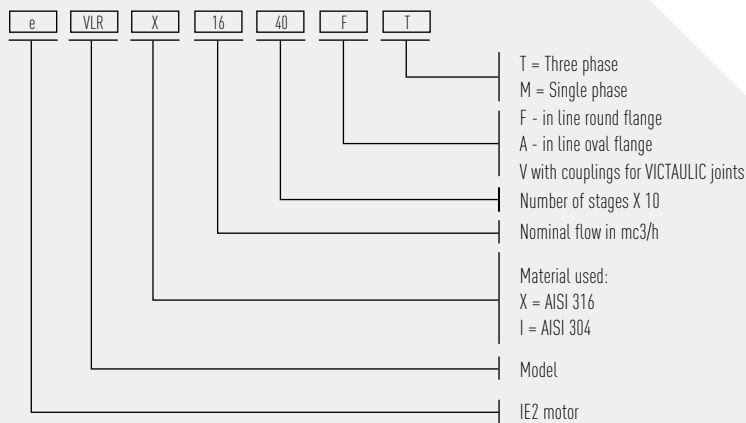
# NOCCHI VLR/VLRI/VLRX VERTICAL MULTISTAGE CENTRIFUGAL PUMPS



HIGH HYDRAULIC EFFICIENCY, MOTOR DESIGNED TO EN STANDARDS

The VLR are vertical multistage, in-line, centrifugal pumps, directly connected to an electric motor. They are not self-priming.

## IDENTIFICATION NAME



## MATERIALS

VERSIONS		F - in line ports with ROUND FLANGES (counterflanges on request)	A - in line ports with OVAL FLANGES equipped with gas counterflanges	V - in line ports with couplings for VICTAULIC joints
2B	VLR	X	X	
	VLRI	X	X	
	VLRX	X	X	X
4	VLR	X	X	
	VLRI	X	X	
	VLRX	X	X	X
8	VLR	X	X	
	VLRI	X		
	VLRX	X		X
16	VLR	X		
	VLRI	X		
32	VLR	X		
	VLRX	X		
46	VLR	X		
	VLRX	X		
66	VLR	X		
	VLRX	X		
92	VLR	X		
	VLRX	X		

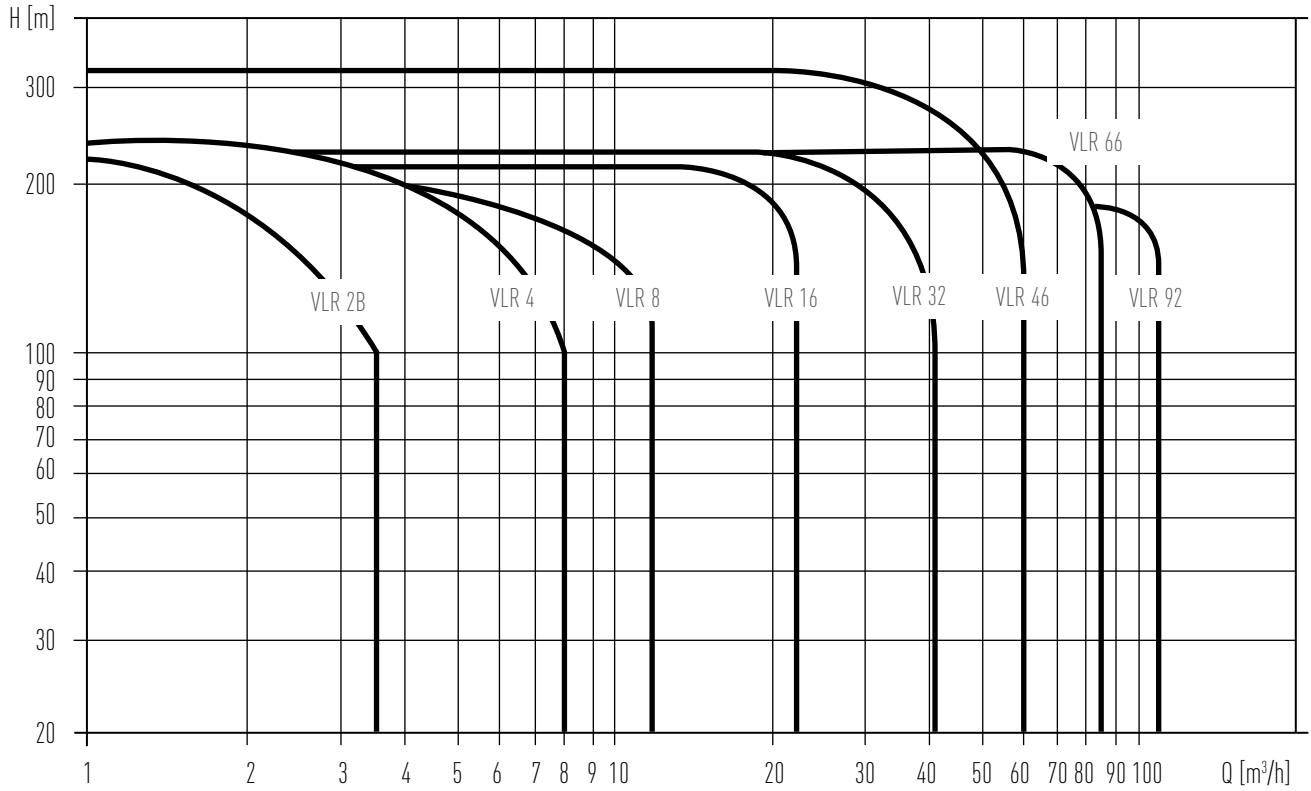




# NOCCHI VLR

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

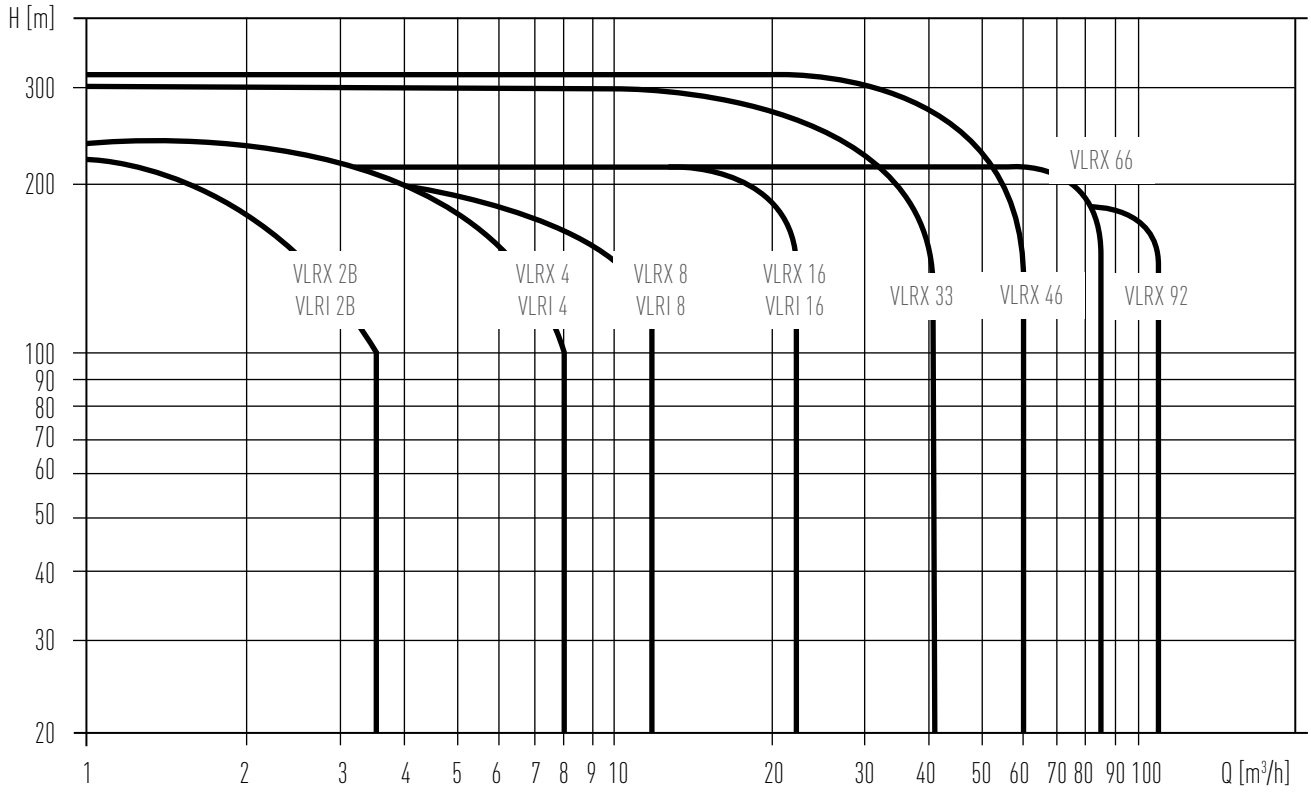
### PERFORMANCE RANGE



# NOCCHI VLRI/VLRX

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

### PERFORMANCE RANGE



# NOCCHI VLR

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS



HIGH HYDRAULIC EFFICIENCY, STAINLESS STEEL HYDRAULIC END, MOTOR DESIGNED TO EN STANDARDS

The VLR are vertical multistage, in-line, centrifugal pumps, directly connected to an electric motor. They are not self-priming.

### APPLICATIONS

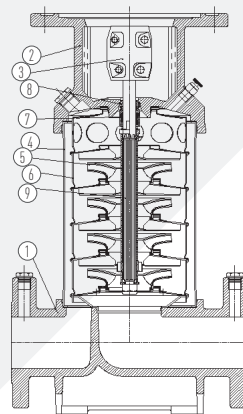
- Water supply
- Pressure Booster Systems
- Irrigation
- High pressure washes
- Firefighting systems
- Boiler supply
- Liquid transfer

### VERSIONS AVAILABLE

- Impeller, diffuser and outside sleeve in stainless steel
- Cast iron base, adapter and motor bracket
- VLR 32 and VLR 66 are equipped with cartridge mechanical seal, in order to avoid a motor disassembling in case of replacement
- A version with oval flanges, supplied complete with counterflanges
- F with round DIN type flanges

### MOTOR

- Asynchronous electric motor with enclosed stator and external ventilation
- Efficiency motor's class IE2
- Main dimensions are in accordance with DIN and IEC standards
- Design: V18-up to 4,0KW
- V1- to start from 5,5KW
- Class F insulation
- Level of protection IP 55
- Maximum environmental temperature 40 °C
- Speed of rotation 2900 rpm
- Increased bearings to last longer



### DESIGN FEATURES

COMPONENT		VLR 2B - 4 - 8 - 16	VLR 32	VLR 46 - 66 - 92
1	Pump casing	cast iron EN GJL 200	cast iron EN GJL 500-7U	cast iron EN GJL 250
2	Motor bracket	cast iron EN GJL 200	cast iron EN GJL 200	cast iron EN GJL 200
3	Motor joint	cast iron EN GJS 400	cast iron EN GJL 500-7U	cast iron EN GJL 200
4	Sleeve	Stainless steel X5CrNi18-10 (AISI 304)		Stainless steel X2CrNiMo17-12-2 (AISI 316L)
5	Impeller	Stainless steel X5CrNi18-10 (AISI 304)		Stainless steel X2CrNiMo17-12-2 (AISI 316L)
6	Diffuser	Stainless steel X5CrNi18-10 (AISI 304)		Stainless steel Nimo17-12-2 (AISI 316L)
7	Rotating seal	silicon carbide	Tungsten carbide	silicon carbide
8	Stationary seal	Graphite	Graphite	Graphite
9	Shaft	Stainless steel X2CrNiMo17-12-2 (AISI 316L)	Stainless steel X17CrNi16-2 (AISI 316L)	Stainless steel X2CrNiMoN22-5-3 (AISI 316L)
10	Gaskets/Seals	EPDM		

# NOCCHI VLR

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

### USAGE LIMITATION

	VLR 2B	VLR 4	VLR 8		VLR 16
	Oval flanges	DIN Flanges	Oval flanges	DIN Flanges	DIN Flanges
Liquid temperature	-15 to +120° C		-15 to +120° C		-15 to +120° C
Maximum operating pressure (suction head included)	16 bar	25 bar (max temp 40° C)	16 bar	25 bar (max temp 40° C)	VLR16-30 - 2 - VLR16-100 25 bar (max temp 85° C) VLR16-30 -2 - VLR16-30 23 bar (max temp 120° C)
		21 bar (max temp 120° C)		21 bar (max temp 120° C)	
Minimum suction head	Please refer to the NPSH values with a safety margin of 0,5 m				

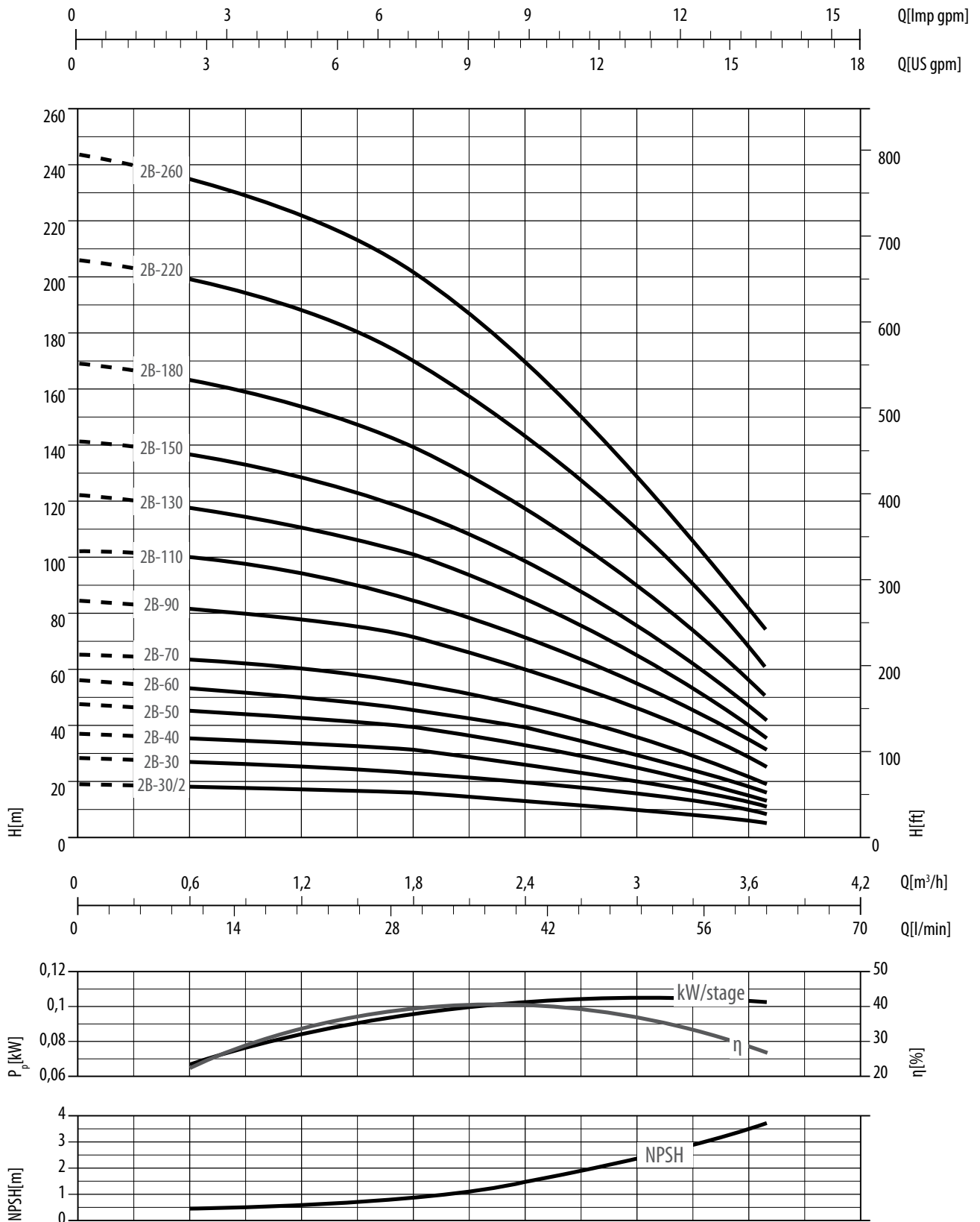
### USAGE LIMITATION

	VLR 32 DIN Flanges	VLR 46 DIN Flanges	VLR 66 DIN Flanges	VLR 92 DIN Flanges
Liquid temperature	-20 to +120° C	-30 to +120° C	-30 to +120° C	-30 to +120° C
Maximum operating pressure (suction head included)	25 bar	16 bar up to VLR 46-50 25 bar up to VLR46-90 40 bar up to VLR 46-130/2	16 bar up to VLR 66-50 25 bar up to VLR 66-80	16 bar up to VLR 92-40 25 bar up to 92-70/2
Minimum suction head	Please refer to the NPSH values with a safety margin of 0,5 m			

# NOCCHI VLR 2B

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

### HYDRAULIC PERFORMANCE



Head and NPSH valid for water with  $\rho=1,0 \text{ kg/dm}^3$  at  $20^\circ \text{C}$  of condensity

VLR 2B	2900 rpm	50 Hz	ISO 9906 - Annex A
--------	----------	-------	--------------------

MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

# NOCCHI VLR 2B



## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

### PUMP PERFORMANCE

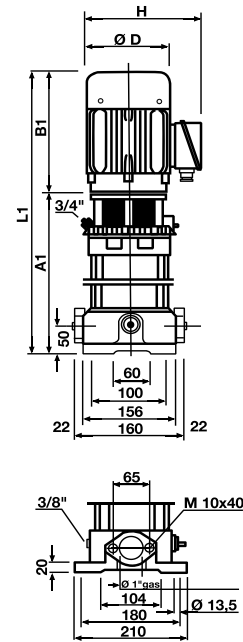
MODEL	Motor Power		Voltage	In (A)	µF.	Q	L/1'	10	20	30	40	50
	HP	kW						0,6	1,2	1,8	2,4	3
VLR 2B - 30/2 A M VLR 2B - 30/2 A T	0,5	0,37	1-230 V 3-230 ÷ 400 V	2,8 1,7-1,0	12,5	m.c.a. / m.c.w.	18	17	16	13	10	
VLR 2B - 30 A M VLR 2B - 30 A T	0,5	0,37	1-230 V 3-230 ÷ 400 V	2,8 1,7-1,0	12,5		27	26	23	20	15	
VLR 2B - 40 A M VLR 2B - 40 A T	0,75	0,55	1-230 V 3-230 ÷ 400 V	4,2 2,6-1,5	16		36	34	31	26	20	
VLR 2B - 50 A M VLR 2B - 50 A T	0,75	0,55	1-230 V 3-230 ÷ 400 V	4,2 2,6-1,5	16		45	43	39	33	25	
VLR 2B - 60 A M VLR 2B - 60 A T	1	0,75	1-230 V 3-230 ÷ 400 V	5 3,5-2	25		54	51	46	39	30	
VLR 2B - 70 A M VLR 2B - 70 A T	1	0,75	1-230 V 3-230 ÷ 400 V	5 3,5-2	25		64	60	54	46	35	
VLR 2B - 90 A M VLR 2B - 90 A T	1,5	1,1	1-230 V 3-230 ÷ 400 V	7,9 4,5-2,6	31,5		82	77	70	59	45	
VLR 2B - 110 A M VLR 2B - 110 A T	1,5	1,1	1-230 V 3-230 ÷ 400 V	7,9 4,5-2,6	31,5		100	94	85	72	55	
VLR 2B - 130 A M VLR 2B - 130 A T	2	1,5	1-230 V 3-230 ÷ 400 V	10,5 6,1-3,5	36		118	111	101	85	65	
VLR 2B - 150 A M VLR 2B - 150 A T	2	1,5	1-230 V 3-230 ÷ 400 V	10,5 6,1-3,5	36		136	128	116	99	75	
VLR 2B - 180 F T	3	2,2	3-230 ÷ 400 V	8,5-4,9			163	154	139	118	90	
VLR 2B - 220 F T	3	2,2	3-230 ÷ 400 V	8,5-4,9			199	188	170	144	110	
VLR 2B - 260 F T	4	3	3-230 ÷ 400 V	11,6-6,7			235	222	201	170	130	

- Type A : with 1" (DN 25) oval flanges. Counterflanges with 1" GAS included.
- Type F : with 1 1/4" (DN32) round flanges. Counterflanges on request.

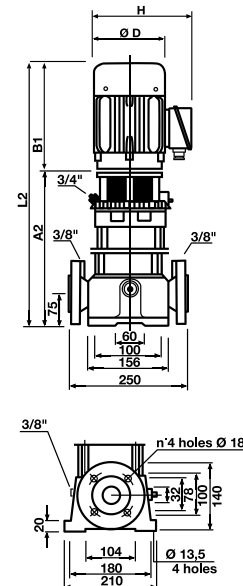
### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions in mm.							Net Weight [Kg]	
	A <sub>1</sub>	B <sub>1</sub>	L <sub>1</sub>	A <sub>2</sub>	L <sub>2</sub>	D	H		
VLR 2B - 30/2	238	213	451	-	-	142	109	20	-
VLR 2B - 30	238	213	451	-	-	142	109	21	-
VLR 2B - 40	256	213	469	-	-	142	109	23	-
VLR 2B - 50	274	213	487	-	-	142	109	25	-
VLR 2B - 60	296	237	533	-	-	160	131	26	-
VLR 2B - 70	314	237	551	-	-	160	131	33	-
VLR 2B - 90	350	237	587	-	-	160	131	34	-
VLR 2B - 110	386	237	623	-	-	160	131	36	-
VLR 2B - 130	441	265	706	-	-	185	130	37	-
VLR 2B - 150	447	265	742	-	-	185	130	43	-
VLR 2B - 180	-	265	-	556	821	185	130	-	49
VLR 2B - 220	-	265	-	628	893	185	130	-	61
VLR 2B - 260	-	315	-	704	1019	200	140	-	63

Version with oval flanges  
VLR 2B 30/2 VLR 2B 150



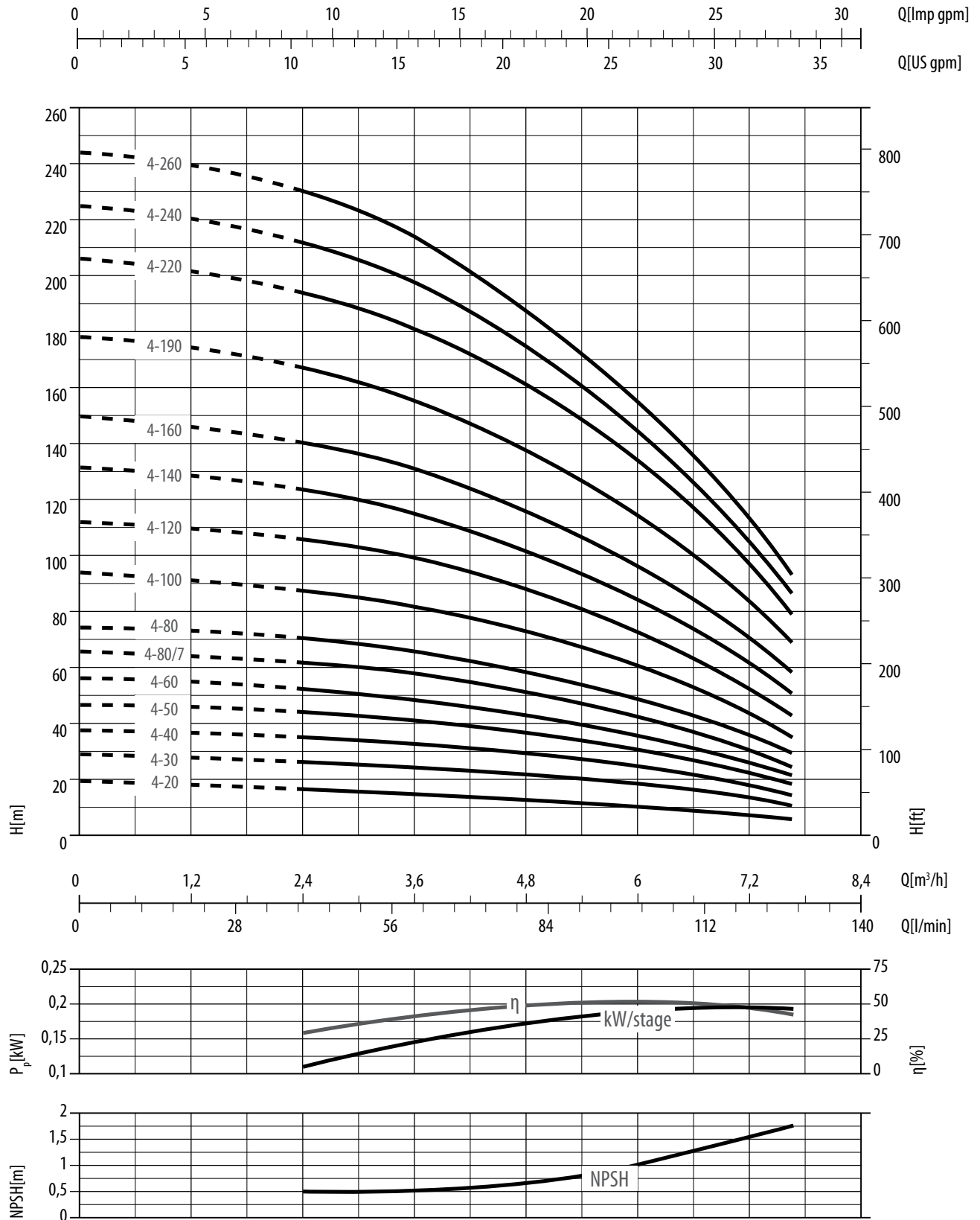
Version with flanges  
PIN 10 DIN 2534/ISO 7005-2



# NOCCHI VLR 4

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

### HYDRAULIC PERFORMANCE



Head and NPSH valid for water with  $\rho=1,0 \text{ kg/dm}^3$  at  $20^\circ \text{C}$  of condensity

VLR4	2900 rpm	50 Hz	ISO 9906 - Annex A
------	----------	-------	--------------------

MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

# NOCCHI VLR 4



## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

### PUMP PERFORMANCE

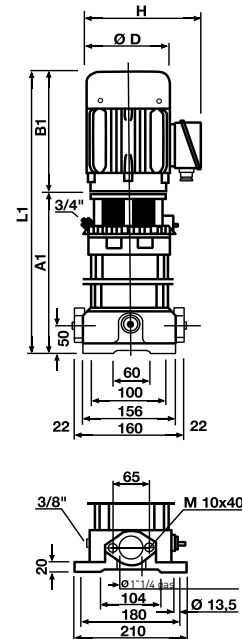
MODEL	Motor Power		Voltage	In (A)	μF.	Q	L/1'	40	60	80	100	120
	HP	kW						m³/h	2,4	3,6	4,8	6
VLR 4 - 20 A M VLR 4 - 20 A T	0,5	0,37	1-230 V 3-230 ÷ 400 V	2,8 1,7-1,0	12,5	m.c.a. / m.c.w.		18	16	15	12	9
VLR 4 - 30 A M VLR 4 - 30 A T	0,75	0,55	1-230 V 3-230 ÷ 400 V	4,2 2,6-1,5	16			27	25	22	18	13
VLR 4 - 40 A M VLR 4 - 40 A T	1	0,75	1-230 V 3-230 ÷ 400 V	5 3,5-2	25			35	33	29	24	18
VLR 4 - 50 A M VLR 4 - 50 A T	1,5	1,1	1-230 V 3-230 ÷ 400 V	7,9 4,5-2,6	31,5			44	41	36	30	22
VLR 4 - 60 A M VLR 4 - 60 A T	1,5	1,1	1-230 V 3-230 ÷ 400 V	7,9 4,5-2,6	36			53	49	44	36	27
VLR 4 - 80/7 A M VLR 4 - 80/7 A T	2	1,5	1-230 V 3-230 ÷ 400 V	10,5 6,1-3,5	36			62	58	51	43	31
VLR 4 - 80 A M VLR 4 - 80 A T	2	1,5	1-230 V 3-230 ÷ 400 V	10,5 6,1-3,5				71	66	58	49	35
VLR 4 - 100 A T	3	2,2	3-230 ÷ 400 V	8,5-4,9				89	82	73	61	44
VLR 4 - 120 A T	3	2,2	3-230 ÷ 400 V	8,5-4,9				106	99	87	73	53
VLR 4 - 140 A T	4	3	3-230 ÷ 400 V	11,6-6,7				124	115	102	85	62
VLR 4 - 160 A T	4	3	3-230 ÷ 400 V	11,6-6,7				142	131	117	97	71
VLR 4 - 190 F T	5,5	4	3-230 ÷ 400 V	14,3-8,3				168	156	138	115	84
VLR 4 - 220 F T	5,5	4	3-230 ÷ 400 V	14,3-8,3				195	181	160	134	97
VLR 4 - 240 F T	7,5	5,5	3-400 ÷ 690 V	11,3-8,5				213	197	175	146	106
VLR 4 - 260 F T	7,5	5,5	3-400 ÷ 690 V	11,3-8,5				230	214	189	158	115

- Type A : with 1" (DN 25) oval flanges. Counterflanges with 1" 1 GAS included.
- Type F : with 1"1/4 (DN 32) round flanges. Counterflanges on request.

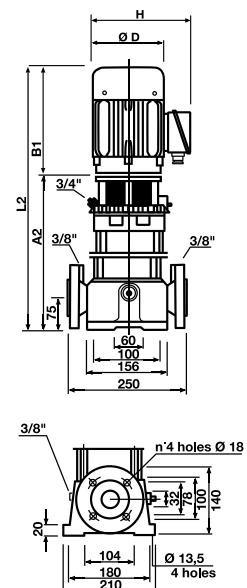
### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions in mm.						Net Weight (Kg)		
	A <sub>1</sub>	B <sub>1</sub>	L <sub>1</sub>	A <sub>2</sub>	L <sub>2</sub>	D	H		
VLR 4 - 20	238	213	451	-	-	142	109	20	-
VLR 4 - 30	265	213	478	-	-	142	109	21	-
VLR 4 - 40	269	237	533	-	-	160	131	23	-
VLR 4 - 50	323	237	560	-	-	160	131	25	-
VLR 4 - 60	350	237	587	-	-	160	131	26	-
VLR 4 - 80/7	423	265	688	-	-	185	130	33	-
VLR 4 - 80	423	265	688	-	-	185	130	33	-
VLR 4 - 100	477	265	742	-	-	185	130	36	-
VLR 4 - 120	531	265	796	-	-	185	130	37	-
VLR 4 - 140	589	315	904	-	-	200	140	41	-
VLR 4 - 160	643	315	958	-	-	200	140	43	-
VLR 4 - 190	-	335	-	749	1084	200	140	-	61
VLR 4 - 220	-	335	-	830	1165	200	140	-	63
VLR 4 - 240	-	385	-	911	1298	260	185	-	87
VLR 4 - 260	-	385	-	965	1350	260	185	-	89

Version with oval flanges  
VLR 4-20 VLR 4-160



Version with flanges  
PIN 10 DIN 2534/ISO 7005-2

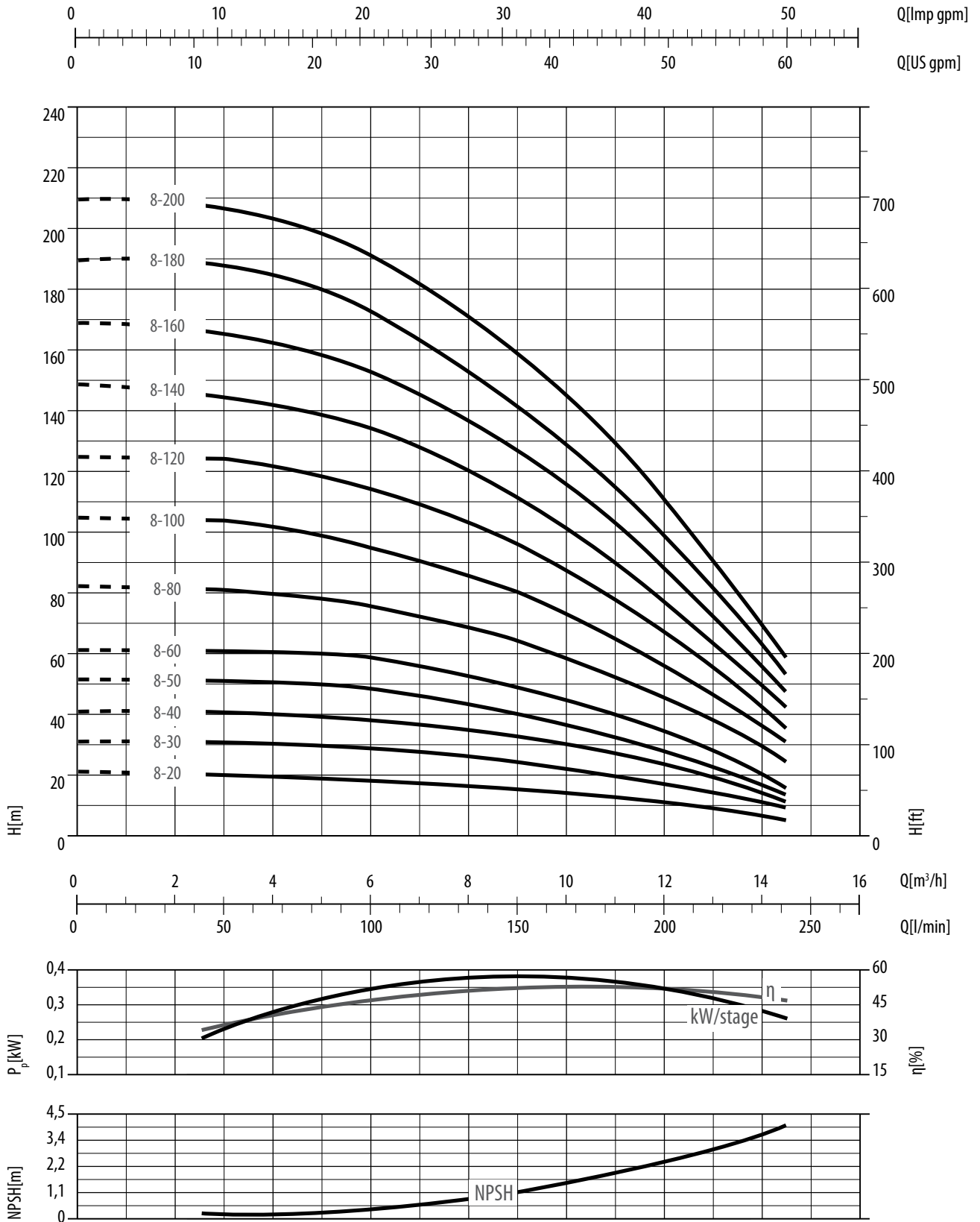




# NOCCHI VLR 8

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

### HYDRAULIC PERFORMANCE



Head and NPSH valid for water with  $\rho=1,0 \text{ kg/dm}^3$  at  $20^\circ \text{C}$  of condensity

VLR8	2900 rpm	50 Hz	ISO 9906 - Annex A
------	----------	-------	--------------------

MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

# NOCCHI VLR 8

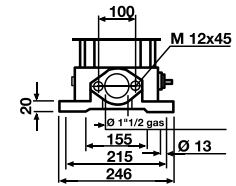
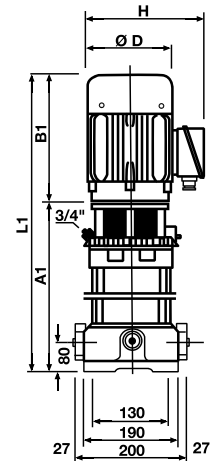
## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

### PUMP PERFORMANCE

MODEL	Motor Power		Voltage	In (A)	μF.	Q	L/1'	50	100	150	175	200
	HP	kW					m³/h	3	6	9	10,5	12
VLR 8 - 20 A M VLR 8 - 20 A T	1	0,75	1-230 V 3-230 ÷ 400 V	5 3,5-1,9	25	m.c.a. / m.c.w.	21	19	16	14	11	
VLR 8 - 30 A M VLR 8 - 30 A T	1,5	1,1	1-230 V 3-230 ÷ 400 V	7,9 4,5-2,6	31,5		31	29	24	21	16	
VLR 8 - 40 A M VLR 8 - 40 A T	2	1,5	1-230 V 3-230 ÷ 400 V	10,5 6,1-3,5	36		41	38	32	27	22	
VLR 8 - 50 A T	3	2,2	3-230 ÷ 400 V	8,5-4,9			52	48	40	34	27	
VLR 8 - 60 A T	3	2,2	3-230 ÷ 400 V	8,5-4,9			62	58	48	41	33	
VLR 8 - 80 A T	4	3	3-230 ÷ 400 V	11,6-6,7			82	77	64	55	44	
VLR 8 - 100 A T	5,5	4	3-230 ÷ 400 V	14,3-8,3			103	96	80	69	55	
VLR 8 - 120 A T	5,5	4	3-230 ÷ 400 V	14,3-8,3			124	115	96	82	65	
VLR 8 - 140 F T	7,5	5,5	3-400 ÷ 690 V	11,3-8,5			144	134	112	96	76	
VLR 8 - 160 F T	7,5	5,5	3-400 ÷ 690 V	11,3-8,5			165	154	128	110	87	
VLR 8 - 180 F T	10	7,5	3-400 ÷ 690 V	14,3-8,3			185	173	144	123	98	
VLR 8 - 200 F T	10	7,5	3-400 ÷ 690 V	14,3-8,3			206	192	160	137	109	

- Type A : with 1" 1/2 (DN 40) oval flanges. Counterflanges with 1" 1/2 GAS thread included.
- Type F : with 1" 1/2 (DN 40) round flanges. Counterflanges on request.

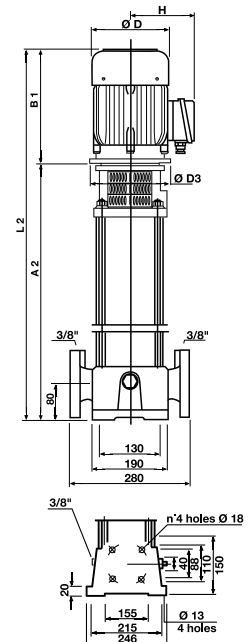
Version with oval flanges  
VLR 8-20 VLR 8-120



### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions in mm.								Net Weight (Kg)	
	A <sub>1</sub>	B <sub>1</sub>	L <sub>1</sub>	A <sub>2</sub>	L <sub>2</sub>	D	H	D <sub>3</sub>		
VLR 8 - 20	245	237	482	-	-	160	131	-	30	-
VLR 8 - 30	375	237	612	-	-	160	131	-	32	-
VLR 8 - 40	420	265	685	-	-	185	130	-	40	-
VLR 8 - 50	450	265	715	-	-	185	130	-	42	-
VLR 8 - 60	480	265	745	-	-	185	130	-	43	-
VLR 8 - 80	545	315	860	-	-	200	140	-	51	-
VLR 8 - 100	605	335	940	-	-	200	140	-	52	-
VLR 8 - 120	665	335	1000	-	-	200	140	-	56	-
VLR 8 - 140	-	385	-	745	1130	260	185	300	-	85
VLR 8 - 160	-	385	-	805	1190	260	185	300	-	86
VLR 8 - 180	-	385	-	865	1250	260	185	300	-	90
VLR 8 - 200	-	385	-	925	1310	260	185	300	-	91

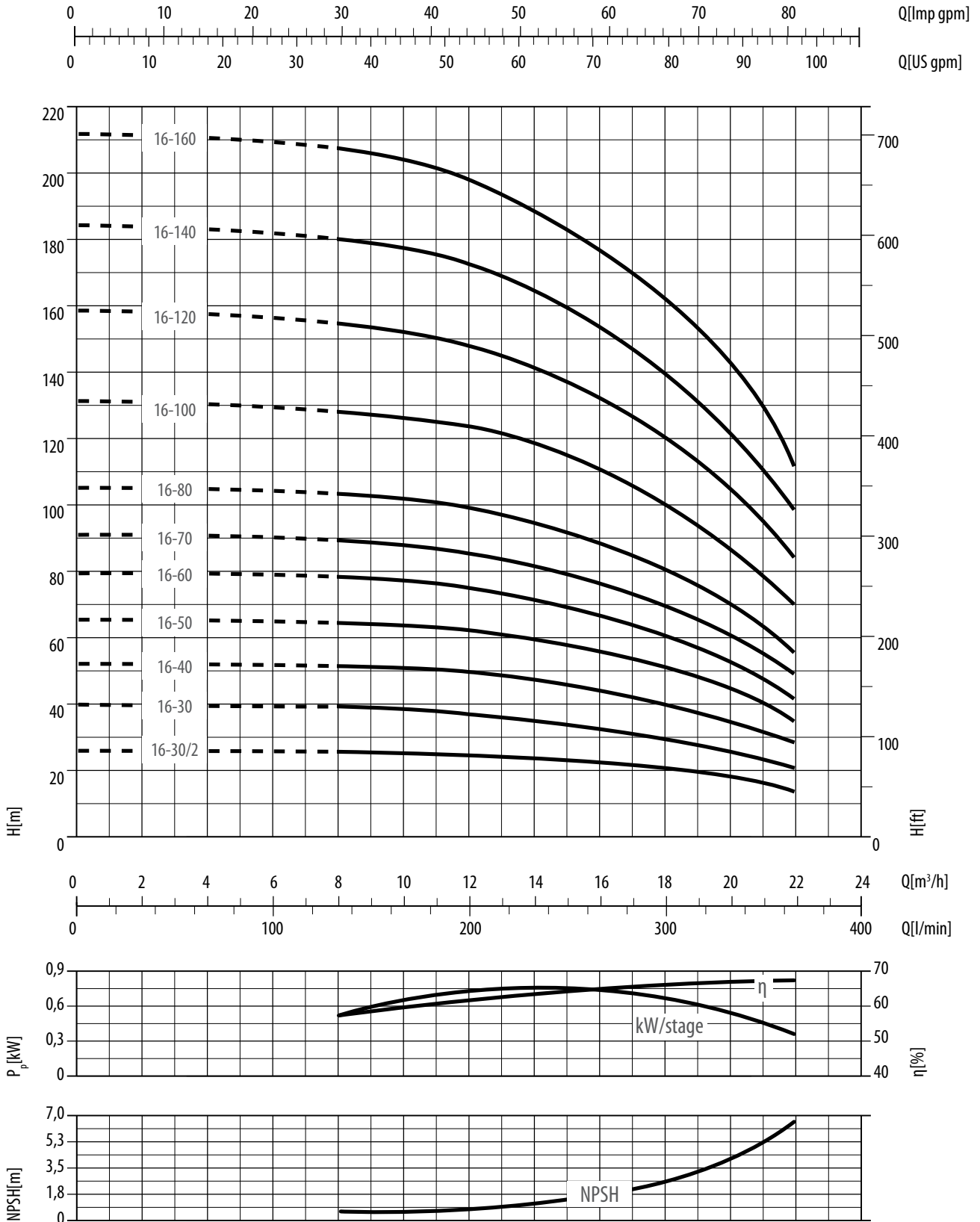
Version with flanges  
PIN 10 DIN 2534/ISO 7005-2



# NOCCHI VLR 16

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

### HYDRAULIC PERFORMANCE



Head and NPSH valid for water with  $\rho=1,0 \text{ kg/dm}^3$  at  $20^\circ \text{C}$  of condensity

VLR 16	2900 rpm	50 Hz	ISO 9906 - Annex A
--------	----------	-------	--------------------

MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

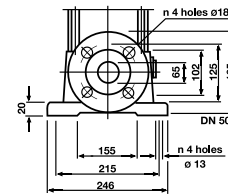
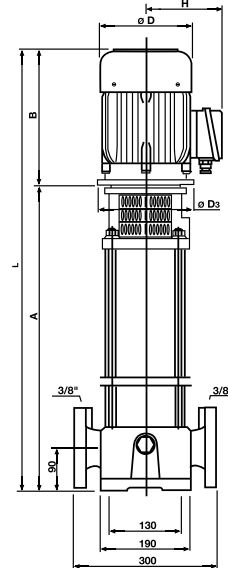
# NOCCHI VLR 16

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS


### PUMP PERFORMANCE

MODEL	Motor Power		Voltage	In (A)	Q	L/1'	100	200	250	300	350
	HP	kW				m <sup>3</sup> /h	6	12	15	18	21
VLR 16 - 30/2 F T	3	2,2	3-230 ÷ 400 V	8,5-4,9	m.c.a./ m.c.w.	26	25	23	20	16	
VLR 16 - 30 F T	4	3	3-230 ÷ 400 V	11,6-6,7		39	37	34	30	24	
VLR 16 - 40 F T	5,5	4	3-230 ÷ 400 V	14,3-8,3		52	49	46	40	32	
VLR 16 - 50 F T	7,5	5,5	3-400 ÷ 690 V	11,3-8,5		65	62	57	51	40	
VLR 16 - 60 F T	7,5	5,5	3-400 ÷ 690 V	11,3-8,5		78	74	69	61	47	
VLR 16 - 70 F T	10	7,5	3-400 ÷ 690 V	14,3-8,3		91	86	80	71	55	
VLR 16 - 80 F T	10	7,5	3-400 ÷ 690 V	14,3-8,3		104	98	92	81	63	
VLR 16 - 100 F T	15	11	3-400 ÷ 690 V	21-12,1		130	123	115	101	79	
VLR 16 - 120 F T	15	11	3-400 ÷ 690 V	21-12,1		156	148	137	121	95	
VLR 16 - 140 F T	20	15	3-400 ÷ 690 V	28-12,6		182	172	160	142	111	
VLR 16 - 160 F T	20	15	3-400 ÷ 690 V	28-12,6		208	197	183	162	126	

Pump with DN50 PN25 DIN 2534/ISO 7005-2 round flanges (with 65 mm diameter bore). Counterflanges on request.



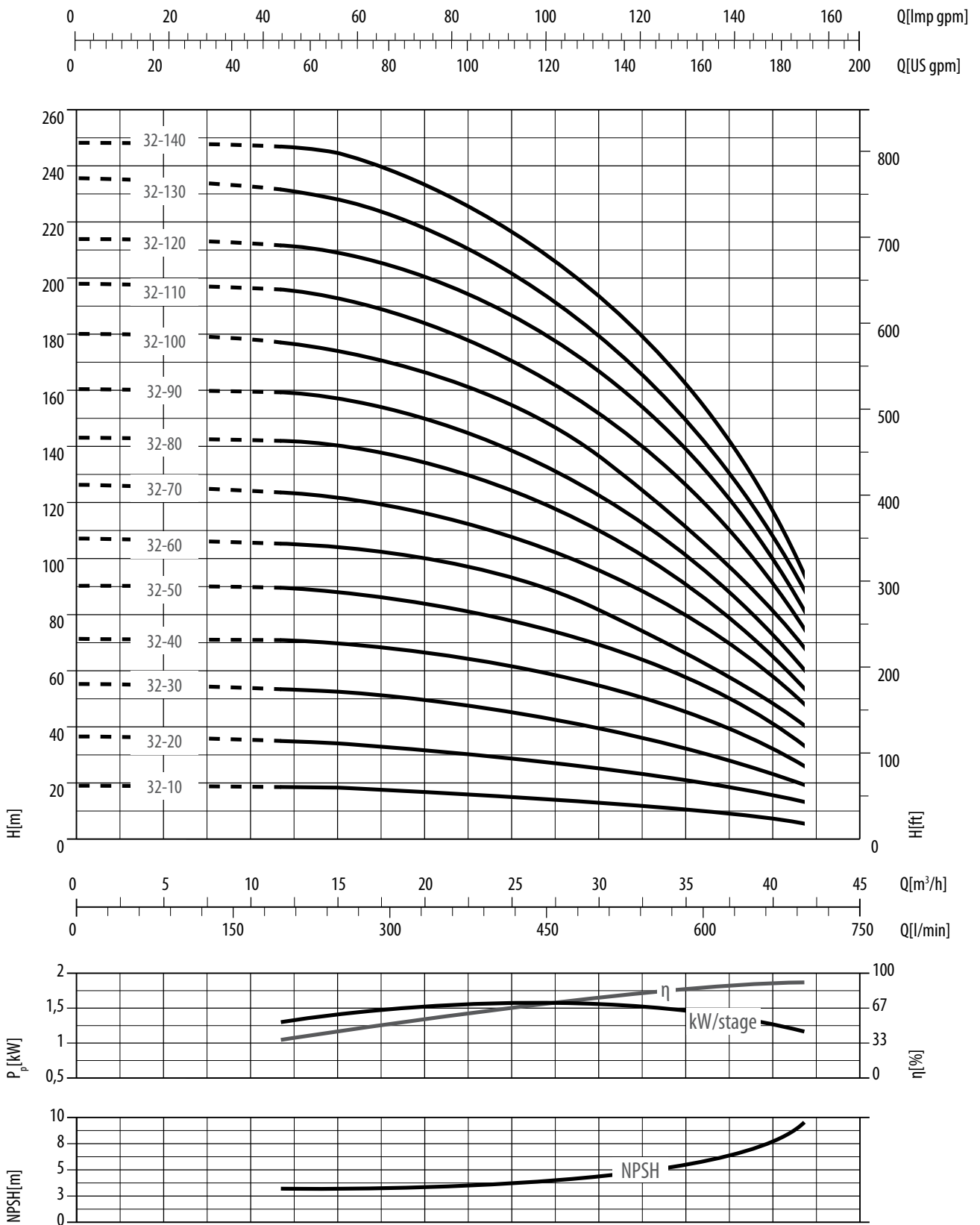
### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions in mm.						Net Weight (Kg)
	A	B	L	D	H	D <sub>3</sub>	
VLR 16 - 30/2 F T	460	265	725	185	130	140	52
VLR 16 - 30 F T	464	315	779	200	140	250	56
VLR 16 - 40 F T	509	335	844	200	140	250	59
VLR 16 - 50 F T	575	385	960	260	185	300	82
VLR 16 - 60 F T	620	385	1005	260	185	300	84
VLR 16 - 70 F T	665	385	1050	260	185	300	90
VLR 16 - 80 F T	710	385	1095	260	185	300	92
VLR 16 - 100 F T	830	495	1325	260	185	350	136
VLR 16 - 120 F T	920	495	1425	260	185	350	140
VLR 16 - 140 F T	1010	495	1505	310	230	350	181
VLR 16 - 160 F T	1100	495	1595	310	230	350	185

# NOCCHI VLR 32

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

### HYDRAULIC PERFORMANCE



Head and NPSH valid for water with  $\rho=1,0 \text{ kg/dm}^3$  at  $20^\circ \text{ C}$  of condensity

VLR 32	2900 rpm	50 Hz	ISO 9906 - Annex A
--------	----------	-------	--------------------

MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

# NOCCHI VLR 32

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

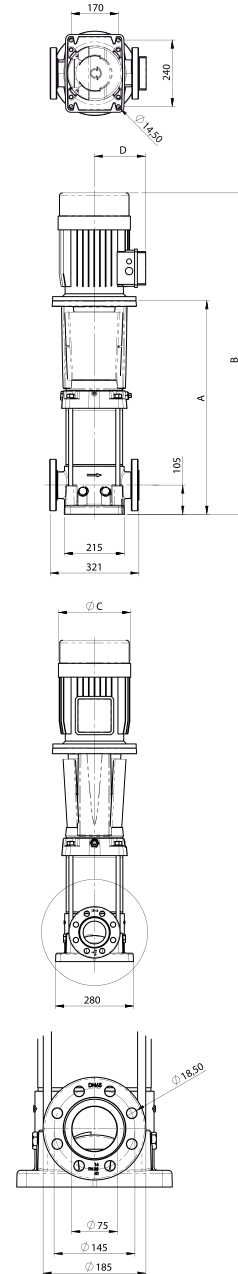
### PUMP PERFORMANCE

MODEL	Motor Power		Voltage	In (A)	Q	L/1'	200	400	500	600	700
	HP	kW				m <sup>3</sup> /h	12	24	30	36	42
VLR 32-1	3	2,2	3 ~ 230 ÷ 400 V	8,65-5	m.c.a. / m.c.w.	18	16	14	11	7	
VLR 32-2	5,5	4	3 ~ 400 ÷ 690 V	8,6		35	31	27	22	14	
VLR 32-3	7,5	5,5	3 ~ 400 ÷ 690 V	10,9		53	47	41	33	20	
VLR 32-4	10	7,5	3 ~ 400 ÷ 690 V	14,7		71	63	55	44	27	
VLR 32-5	15	11	3 ~ 400 ÷ 690 V	21		89	79	69	55	34	
VLR 32-6	15	11	3 ~ 400 ÷ 690 V	21		106	94	82	66	41	
VLR 32-7	20	15	3 ~ 400 ÷ 690 V	29		124	110	96	77	48	
VLR 32-8	20	15	3 ~ 400 ÷ 690 V	29		142	126	110	88	54	
VLR 32-9	25	18,5	3 ~ 400 ÷ 690 V	35		159	141	123	99	61	
VLR 32-10	30	22	3 ~ 400 ÷ 690 V	42		177	157	137	110	68	
VLR 32-11	30	22	3 ~ 400 ÷ 690 V	42		195	173	151	121	75	
VLR 32-12	40	30	3 ~ 400 ÷ 690 V	55		212	188	164	132	82	
VLR 32-13	40	30	3 ~ 400 ÷ 690 V	55		230	204	178	143	88	
VLR 32-14	40	30	3 ~ 400 ÷ 690 V	55		248	220	192	154	95	

Pump with DN50 PN25 DIN 2534/ISO 7005-2 round flanges. Counterflanges on request.

### TABLE OF SIZES AND WEIGHTS

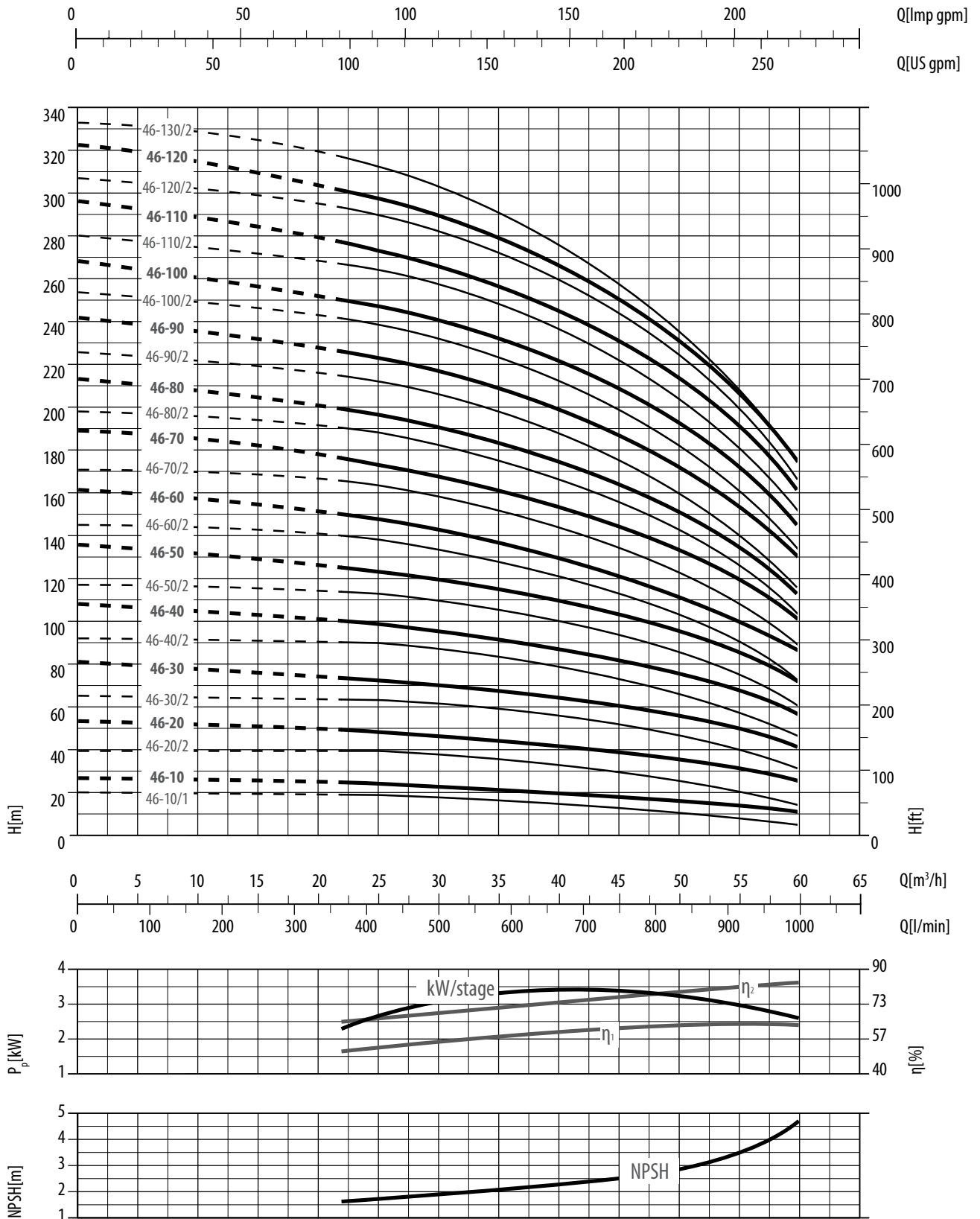
MODEL	Dimensions in mm.				Net Weight (Kg)
	A	B	L	D	
VLR 32-1	580	850	185	145	78
VLR 32-2	650	950	210	155	93,5
VLR 32-3	770	1160	260	200	114
VLR 32-4	840	1230	260	200	121
VLR 32-5	910	1370	260	215	153
VLR 32-6	980	1440	260	215	157,5
VLR 32-7	1050	1510	260	215	166,5
VLR 32-8	1120	1580	260	215	177,5
VLR 32-9	1190	1650	320	245	200
VLR 32-10	1260	1800	320	245	218
VLR 32-11	1330	1870	320	245	222,5
VLR 32-12	1400	1980	320	245	236
VLR 32-13	1480	2120	360	275	269
VLR 32-14	1550	2190	360	275	280



# NOCCHI VLR 46

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

### HYDRAULIC PERFORMANCE



Head and NPSH valid for water with  $\rho=1,0 \text{ kg/dm}^3$  at  $20^\circ \text{ C}$  of condensity

VLR 46	2900 rpm	50 Hz	ISO 9906 - Annex A
--------	----------	-------	--------------------

MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

# NOCCHI VLR 46

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

### PUMP PERFORMANCE

MODEL	Motor Power		Voltage	In (A)	Q	L/1'	367	417	500	583	667	750	900	1000
	HP	kW				m <sup>3</sup> /h	22	25	30	35	40	45	54	60
VLR 46-10/1	4	3	3-230 ÷ 400 V	5	m.c.a. / m.c.w.	19	19	18	17	15	13	9	5	
VLR 46-10	5,5	4	3-230 ÷ 400 V	8,6		24	24	23	21	20	18	14	14	11
VLR 46-20/2	7,5	5,5	3-400 ÷ 690 V	10,9		40	39	38	36	33	29	21	21	14
VLR 46-20	10	7,5	3-400 ÷ 690 V	14,7		49	48	46	44	42	39	31	31	25
VLR 46-30/2	15	11	3-400 ÷ 690 V	21		65	64	62	60	56	52	40	40	31
VLR 46-30	15	11	3-400 ÷ 690 V	21		74	73	71	68	65	60	50	50	41
VLR 46-40/2	20	15	3-400 ÷ 690 V	29		91	90	87	83	79	73	58	58	46
VLR 46-40	20	15	3-400 ÷ 690 V	29		100	98	96	92	87	82	68	68	56
VLR 46-50/2	25	18,5	3-400 ÷ 690 V	35		115	113	110	106	100	93	75	75	60
VLR 46-50	25	18,5	3-400 ÷ 690 V	35		125	123	120	116	110	103	86	86	72
VLR 46-60/2	30	22	3-400 ÷ 690 V	42		139	138	134	129	122	113	92	92	73
VLR 46-60	30	22	3-400 ÷ 690 V	42		150	148	144	139	132	124	104	104	86
VLR 46-70/2	40	30	3-400 ÷ 690 V	55		165	163	158	152	144	134	110	110	89
VLR 46-70	40	30	3-400 ÷ 690 V	55		176	173	168	162	155	145	122	122	101
VLR 46-80/2	40	30	3-400 ÷ 690 V	55		190	188	182	176	166	155	127	127	103
VLR 46-80	40	30	3-400 ÷ 690 V	55		199	196	191	184	175	164	137	137	113
VLR 46-90/2	40	30	3-400 ÷ 690 V	55		215	212	206	198	187	174	143	143	116
VLR 46-90	50	37	3-400 ÷ 690 V	65		225	222	217	209	199	187	157	157	130
VLR 46-100/2	50	37	3-400 ÷ 690 V	65		241	238	232	223	212	198	164	164	134
VLR 46-100	50	37	3-400 ÷ 690 V	65		250	247	241	232	221	208	174	174	145
VLR 46-110/2	60	45	3-400 ÷ 690 V	80		267	264	258	249	237	222	184	184	151
VLR 46-110	60	45	3-400 ÷ 690 V	80		276	273	266	257	245	230	194	194	161
VLR 46-120/2	60	45	3-400 ÷ 690 V	80		293	289	282	272	259	243	202	202	166
VLR 46-120	60	45	3-400 ÷ 690 V	80		301	297	290	280	267	250	210	210	175
VLR 46-130/2	60	45	3-400 ÷ 690 V	80		316	312	304	292	277	259	214	214	175

Pump with DN80 PN16 (VLR46-10/1, VLR 46-50); PN25 from VLR 46-60/2 to 46-90; PN 40 from VLR 46-100 TO 46-130/2 round flanges. Counterflanges on request.

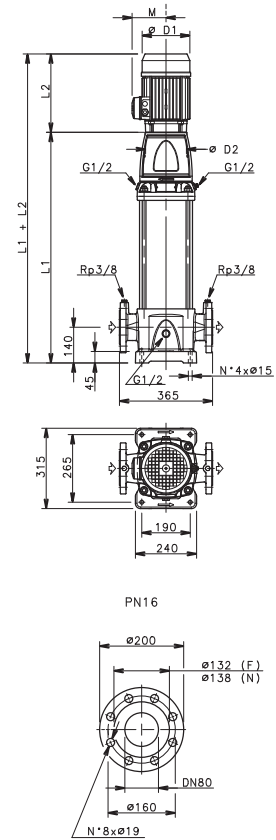


# NOCCHI VLR 46

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TABLE OF SIZES AND WEIGHTS

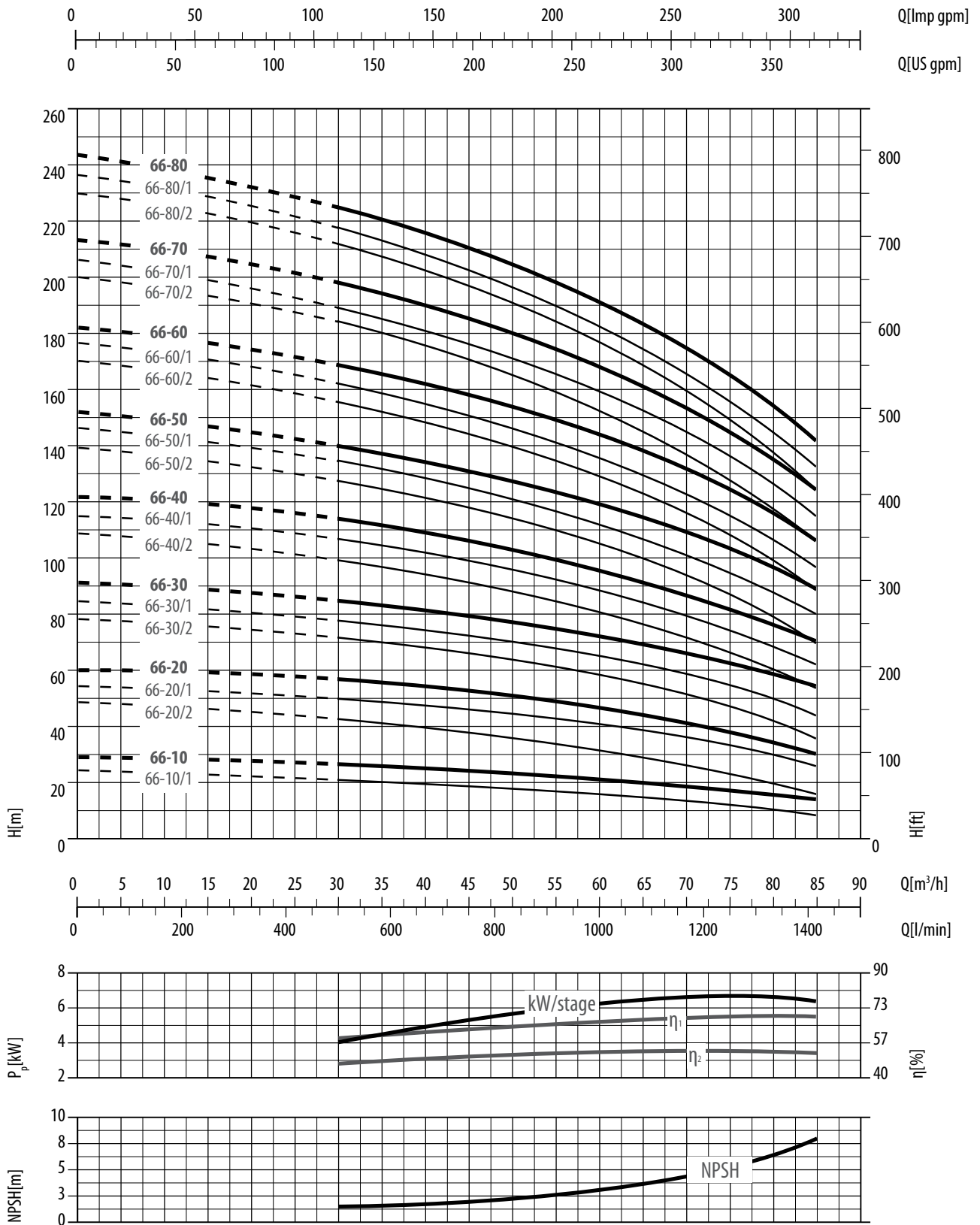
MODEL	Dimensions in mm.					Net Weight (Kg)
	L <sub>1</sub>	L <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	M	
VLR 46-10/1	529	298	174	164	134	79
VLR 46-10	529	319	197	164	154	84,5
VLR 46-20/2	624	375	214	300	168	104
VLR 46-20	624	367	356	300	191	122
VLR 46-30/2	734	428	256	350	191	144
VLR 46-30	734	428	256	350	191	144
VLR 46-40/2	809	494	313	350	240	180
VLR 46-40	809	494	313	350	240	180
VLR 46-50/2	884	494	313	350	240	193
VLR 46-50	884	494	313	350	240	193
VLR 46-60/2	959	494	313	350	240	208
VLR 46-60	959	494	313	350	240	208
VLR 46-70/2	1034	613	354	400	278	230
VLR 46-70	1034	613	354	400	278	230
VLR 46-80/2	1109	613	354	400	278	234
VLR 46-80	1109	613	354	400	278	234
VLR 46-90/2	1184	613	354	400	278	238
VLR 46-90	1184	613	354	400	278	238
VLR 46-100/2	1259	613	354	400	278	248
VLR 46-100	1259	613	354	400	278	257
VLR 46-110/2	1334	710	411	450	298	257
VLR 46-110	1334	710	411	450	298	345
VLR 46-120/2	1409	710	411	450	298	345
VLR 46-120	1409	710	411	450	298	350
VLR 46-130/2	1484	710	411	450	298	354



# NOCCHI VLR 66

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

### HYDRAULIC PERFORMANCE



VLR 66	2900 rpm	50 Hz	ISO 9906 - Annex A
--------	----------	-------	--------------------

MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

# NOCCHI VLR 66

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

### PUMP PERFORMANCE

MODEL	Motor Power		Voltage	In (A)	Q	L/1'	500	600	700	750	900	1000	1200	1300	1417
	HP	kW				m³/h	30	36	42	45	54	60	72	78	85
VLR 66-10/1	5,5	4	3-230 ÷ 400 V	8,6	m.c.a. / m.c.w.	21	21	20	19	18	17	13	11	8	
VLR 66-10	7,5	5,5	3-400 ÷ 690 V	10,9		26	25	24	23	22	21	18	16	14	
VLR 66-20/2	10	7,5	3-400 ÷ 690 V	14,7		43	41	40	39	36	33	26	22	16	
VLR 66-20/1	15	11	3-400 ÷ 690 V	21		50	48	47	46	43	41	35	31	26	
VLR 66-20	15	11	3-400 ÷ 690 V	21		56	54	53	52	49	47	42	39	35	
VLR 66-30/2	20	15	3-400 ÷ 690 V	29		72	70	67	66	62	58	49	43	35	
VLR 66-30/1	20	15	3-400 ÷ 690 V	29		78	76	74	72	68	65	56	51	44	
VLR 66-30	25	18,5	3-400 ÷ 690 V	35		85	83	81	79	75	72	64	60	54	
VLR 66-40/2	25	18,5	3-400 ÷ 690 V	35		100	97	94	92	86	82	70	63	53	
VLR 66-40/1	30	22	3-400 ÷ 690 V	42		106	103	100	99	93	89	78	71	62	
VLR 66-40	30	22	3-400 ÷ 690 V	42		113	110	107	105	100	96	86	79	71	
VLR 66-50/2	40	30	3-400 ÷ 690 V	55		128	124	120	118	111	106	92	83	70	
VLR 66-50/1	40	30	3-400 ÷ 690 V	55		134	131	127	125	118	112	99	91	80	
VLR 66-50	40	30	3-400 ÷ 690 V	55		140	137	133	131	125	119	107	99	89	
VLR 66-60/2	40	30	3-400 ÷ 690 V	55		156	152	147	144	136	129	113	103	88	
VLR 66-60/1	40	30	3-400 ÷ 690 V	55		162	158	153	151	143	136	121	111	97	
VLR 66-60	50	37	3-400 ÷ 690 V	65		169	164	160	158	150	143	128	119	106	
VLR 66-70/2	50	37	3-400 ÷ 690 V	65		184	179	174	171	161	153	134	122	106	
VLR 66-70/1	50	37	3-400 ÷ 690 V	65		190	185	180	177	168	160	142	131	115	
VLR 66-70	60	45	3-400 ÷ 690 V	80		197	192	187	184	174	167	150	139	124	
VLR 66-80/2	60	45	3-400 ÷ 690 V	80	212	206	200	197	186	177	156	142	124		
VLR 66-80/1	60	45	3-400 ÷ 690 V	80	218	213	207	204	193	184	163	150	133		
VLR 66-80	60	45	3-400 ÷ 690 V	80	225	219	213	210	199	191	171	159	142		

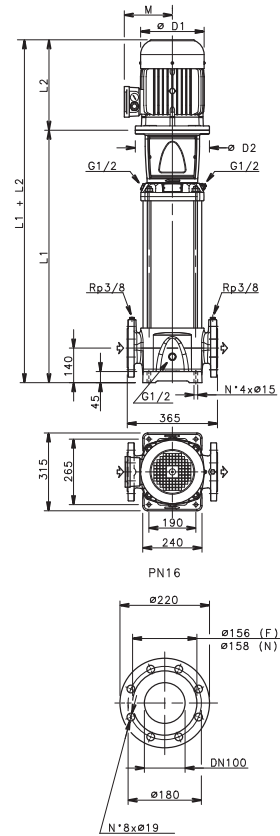
Flange DN 100 PN 16 from VLR 66-10/1 to 66-80. PN 25 from VLR 66-60 to 66-80. Counterflanges on request.

# NOCCHI VLR 66

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TABLE OF SIZES AND WEIGHTS

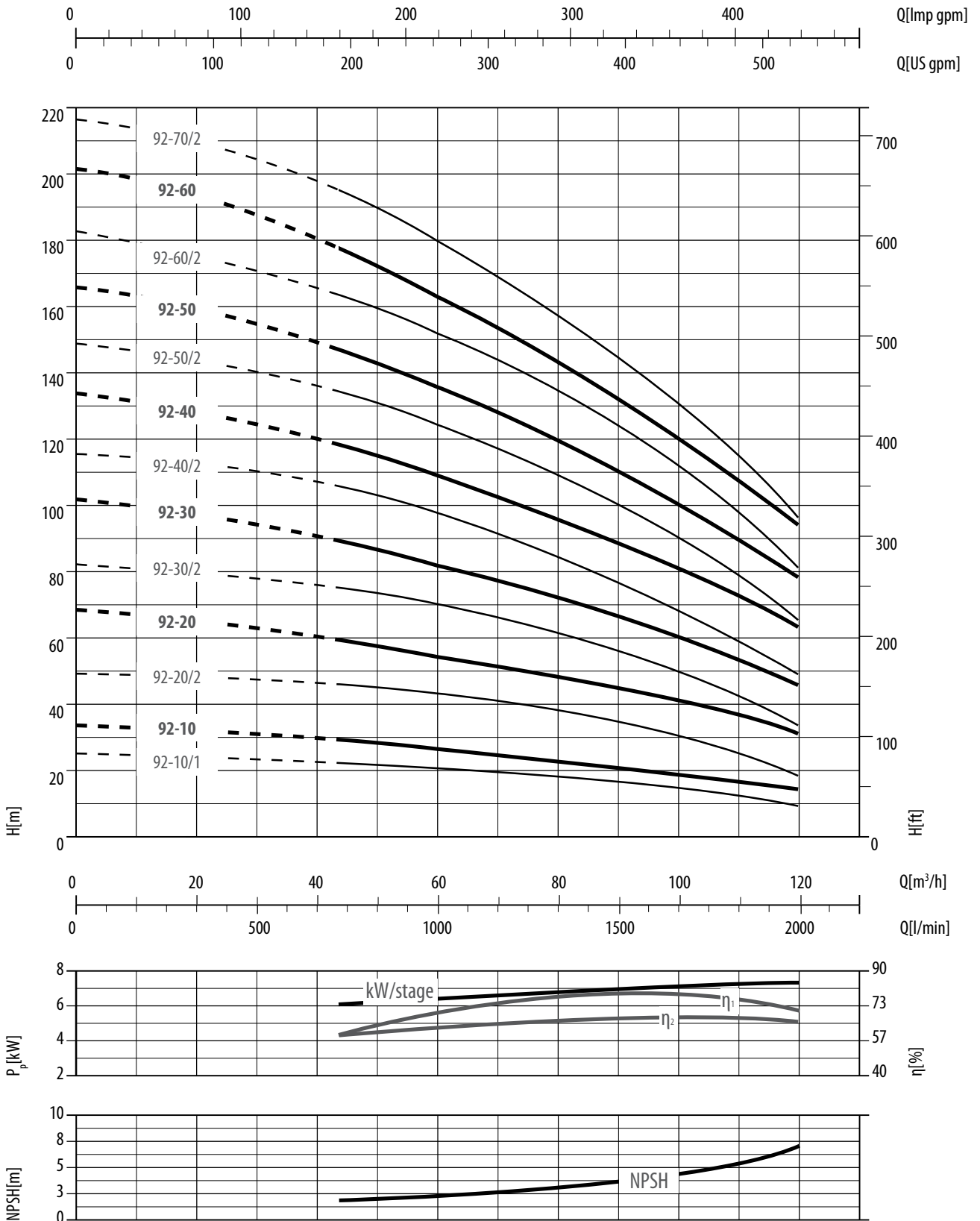
MODEL	Dimensions in mm.					Net Weight (Kg)
	L <sub>1</sub>	L <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	M	
VLR 66-10/1	554	319	197	164	154	92,5
VLR 66-10	574	375	214	300	168	110
VLR 66-20/2	664	367	256	300	191	133
VLR 66-20/1	699	428	256	300	191	151
VLR 66-20	699	428	256	350	191	151
VLR 66-30/2	789	494	313	350	240	188
VLR 66-30/1	789	494	313	350	240	188
VLR 66-30	789	494	313	350	240	197
VLR 66-40/2	879	494	313	350	240	203
VLR 66-40/1	879	494	313	350	240	214
VLR 66-40	879	494	313	350	240	214
VLR 66-50/2	969	613	354	400	278	237
VLR 66-50/1	969	613	354	400	278	237
VLR 66-50	969	613	354	400	278	245
VLR 66-60/2	1059	613	354	400	278	245
VLR 66-60/1	1059	613	354	400	278	255
VLR 66-60	1059	613	354	400	278	255
VLR 66-70/2	1149	613	354	400	278	261
VLR 66-70/1	1149	613	354	400	278	261
VLR 66-70	1149	710	411	450	298	341
VLR 66-80/2	1239	710	411	450	298	346
VLR 66-80/1	1239	710	411	450	298	346
VLR 66-80	1239	710	411	450	298	346



# NOCCHI VLR 92

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

### HYDRAULIC PERFORMANCE



Head and NPSH valid for water with  $\rho=1,0 \text{ kg/dm}^3$  at  $20^\circ \text{ C}$  of condensity

VLR 92	2900 rpm	50 Hz	ISO 9906 - Annex A
--------	----------	-------	--------------------

MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

# NOCCHI VLR 92

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

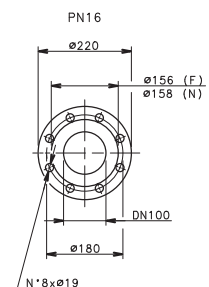
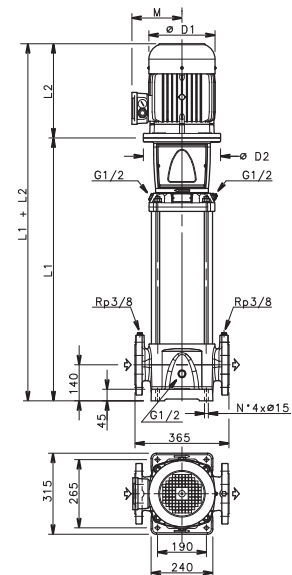
### PUMP PERFORMANCE

MODEL	Motor Power		Voltage	In (A)	Q	L/1'	750	900	1000	1200	1300	1417	1600	1800	2000
	HP	kW					45	54	60	72	78	85	96	108	120
VLR 92-10/1	7.5	5.5	3-400 ÷ 690 V	10,9	m.c.a. / m.c.w.	22	22	21	19	19	17	15	12	8	
VLR 92-10	10	7.5	3-400 ÷ 690 V	14,7		29	27	26	24	23	22	20	18	14	
VLR 92-20/2	15	11	3-400 ÷ 690 V	21		45	44	43	40	38	36	31	25	17	
VLR 92-20	20	15	3-400 ÷ 690 V	29		58	55	53	50	48	45	41	36	30	
VLR 92-30/2	25	18,5	3-400 ÷ 690 V	35		74	72	70	65	62	59	52	44	33	
VLR 92-30	30	22	3-400 ÷ 690 V	42		88	84	81	76	73	69	63	56	46	
VLR 92-40/2	40	30	3-400 ÷ 690 V	55		104	100	97	90	87	82	74	63	49	
VLR 92-40	40	30	3-400 ÷ 690 V	55		117	112	108	101	97	92	85	75	63	
VLR 92-50/2	50	37	3-400 ÷ 690 V	65		122	128	124	116	111	105	95	81	65	
VLR 92-50	50	37	3-400 ÷ 690 V	65		146	140	135	126	121	115	106	94	78	
VLR 92-60/2	60	45	3-400 ÷ 690 V	80		163	156	152	141	135	129	117	101	81	
VLR 92-60	60	45	3-400 ÷ 690 V	80		176	168	163	151	146	139	127	113	94	
VLR 92-70/2	60	45	3-400 ÷ 690 V	80		192	184	179	167	160	152	138	120	97	

Pump with DN100 PN16 from VLR 92-10/2 to 92-40. PN25 from VLR 92-50/2 to 92-70/2. Counterflanges on request.

### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions in mm.					Net Weight (Kg)
	L <sub>1</sub>	L <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	M	
VLR 92-10/1	574	375	214	300	168	109
VLR 92-10	574	367	256	300	191	127
VLR 92-20/2	699	428	256	350	191	150
VLR 92-20	699	494	313	350	240	182
VLR 92-30/2	789	494	313	350	240	197
VLR 92-30	789	494	313	350	240	208
VLR 92-40/2	879	613	354	400	278	232
VLR 92-40	879	613	354	400	278	232
VLR 92-50/2	969	613	354	400	278	250
VLR 92-50	969	613	354	400	278	250
VLR 92-60/2	1059	710	411	450	298	335
VLR 92-60	1059	710	411	450	298	335
VLR 92-70/2	1149	710	411	450	298	340



# NOCCHI VLRI/X

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

HIGH HYDRAULIC EFFICIENCY, HYDRAULIC END IN AISI 304 (VLRI) OR AISI 316 (VLRX) STAINLESS STEEL, MOTOR DESIGNED TO EN STANDARD

The VLRI/X are vertical multistage, in-line, centrifugal pumps, directly connected to an electric motor. They are not self-priming. Entirely in

AISI 304/316 stainless steel for sea water and special applications.

### APPLICATIONS

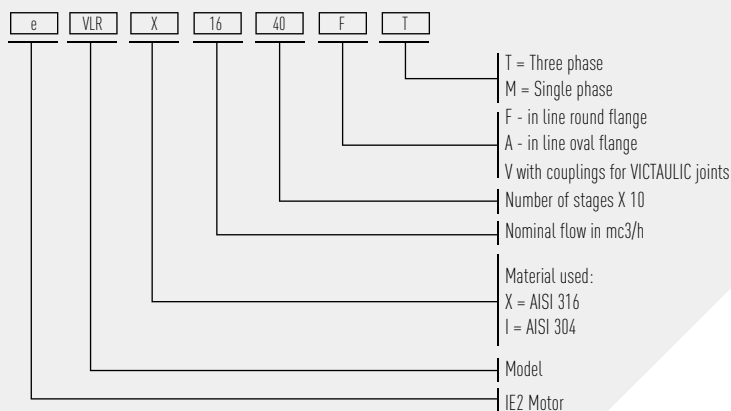
- Water supply
- Pressure Booster Systems
- Irrigation
- High pressure washes
- Firefighting systems
- Boiler supply
- Liquid transfer

### MOTOR

- Asynchronous electric motor with enclosed stator and external ventilation
- Efficiency motor's class IE2
- Main dimensions are in accordance with DIN and IEC standards
- Design: V18-up to 4,0KW
- V1- to start from 5,5KW
- Class F insulation
- Level of protection IP 55
- Maximum environmental temperature 40 °C
- Speed of rotation 2900 rpm
- Increased bearings to last longer

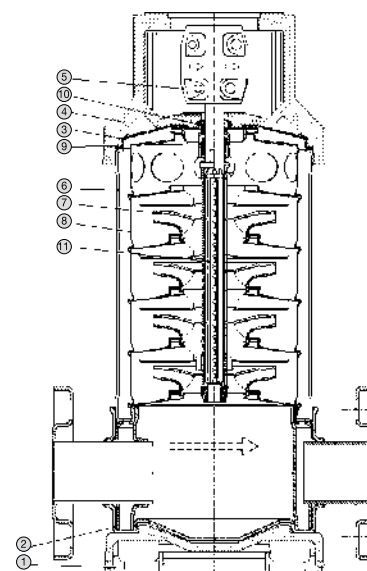


### IDENTIFICATION NAME



### MATERIALS

COMPONENT	VLRI 2B - 4 - 8 - 16	VLRX 2B - 4 - 8 - 16	VLRX 33 - 46 - 66 - 92
1	Base plate	cast iron EN GJL 200	
2	Pump body	Inox X5CrNi18-10 (AISI 304)	Inox X2CrNiMo17-12-3 (AISI 316)
3	Seal guard	Inox X5CrNi18-10 (AISI 304)	Inox X2CrNiMo17-12-3 (AISI 316)
4	Motor stool	Cast iron EN GJL 200	
5	Motor coupling	Cast iron EN GJS 400	
6	Sleeve	Inox X5CrNi18-10 (AISI 304)	Inox X2CrNiMo17-12-2 (AISI 316L)
7	Impeller	Inox X5CrNi18-10 (AISI 304)	Inox X2CrNiMo17-12-2 (AISI 316L)
8	Diffuser	Inox X5CrNi18-10 (AISI 304)	Inox X2CrNiMo17-12-2 (AISI 316L)
9	Rotating seal	Silicon carbide	
10	Stationary seal	Carbon	
11	Shaft	Inox X2CrNiMo17-12-3 (AISI 316)	Inox X2CrNiMoN22-5-3 (UNS S 31803)
12	Gaskets/Seals	EPDM	



# NOCCHI VLRI/X

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

### USAGE LIMITATION

	VLRI / X 2B	VLRI / X 4	VLRI / X 8	VLRI / X 16
Liquid temperature	-15 to +120° C	-15 to +120° C	-15 to +120° C	-15 to +120° C
Maximum operating pressure (suction head included)	25 bar (max temp 40° C) 21 bar (max temp 120° C)	25 bar (max temp 40° C) 21 bar (max temp 120° C)	25 bar (max temp 40° C) 23 bar (max temp 120° C)	VLRI/X 16/30-2 - VLRI/X 16/160 25 bar ( max temp 85° C) VLRI/X 16/30-2 - VLRI/X 16/160 23 bar ( max temp 120° C)
Minimum suction head	Please refer to the NPSH values with a safety margin of 0,5 m			

### USAGE LIMITATION

	VLRX 33	VLRX 46	VLRX 66	VLRX 92
Liquid temperature	-20 to +120° C	-30 to +120° C	-30 to +120° C	-30 to +120° C
Maximum operating pressure (suction head included)	16 bar up to VLRX 33-60/2 25 bar up to VLRX 33-130/1	16 bar up to VLRX 46-50 25 bar up to VLRX 46-90 40 bar up to VLRX 46-130/2	16 bar up to VLRX 66-50 25 bar up to VLRX 66-80	16 bar up to VLRX 92-40 25 bar up to VLRX 92-70/2
Minimum suction head	Please refer to the NPSH values with a safety margin of 0,5 m			

### AVAILABLE VERSIONS

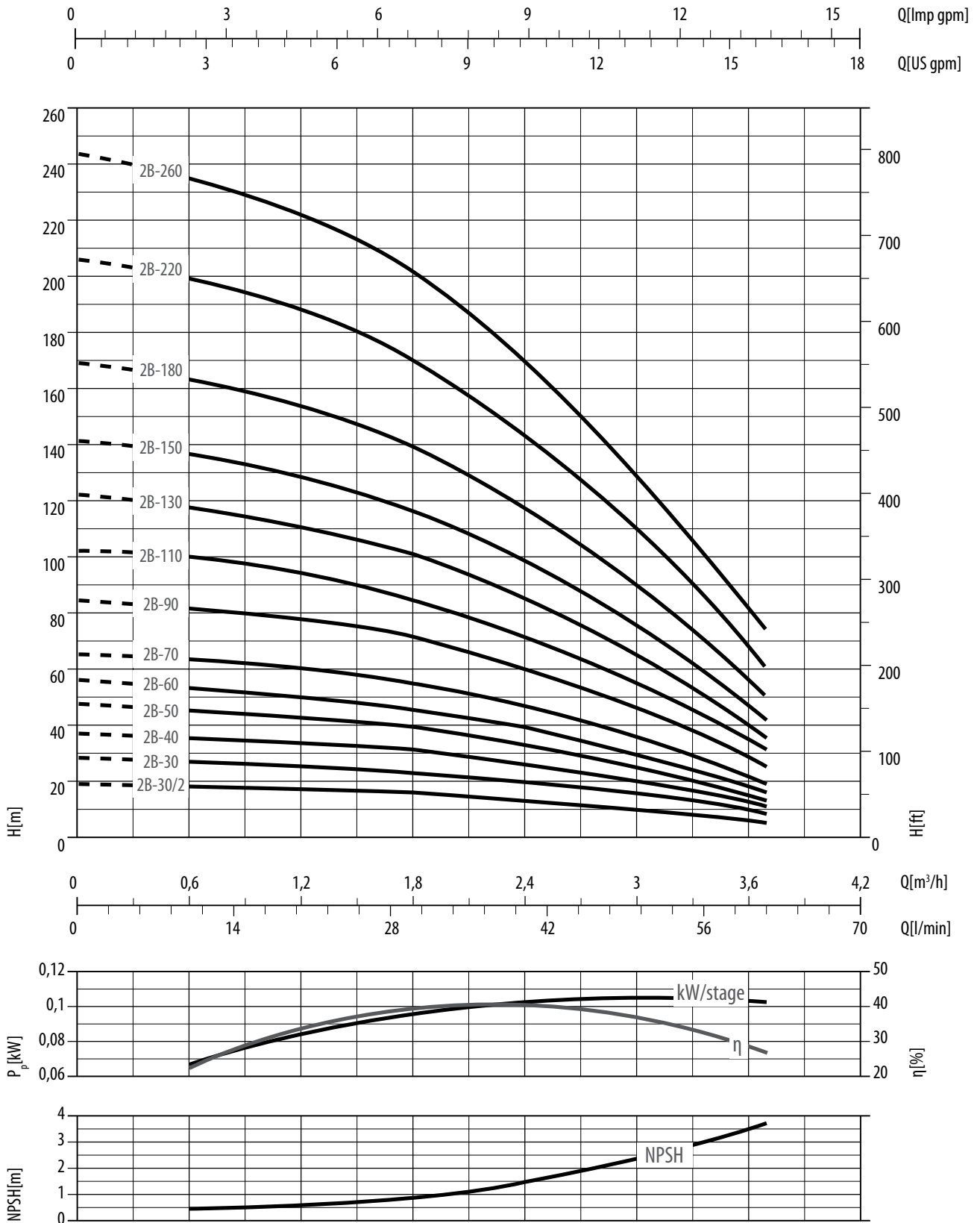
VERSIONS		F - in line ports with ROUND FLANGES	A - in line ports with OVAL FLANGES	V - in line ports with VICTAULIC couplings
2B	VLRI	X	X	
	VLRX	X	X	X
4	VLRI	X	X	
	VLRX	X	X	X
8	VLRI	X		
	VLRX	X		X
16	VLRI	X		
	VLRX	X		
33	VLRX	X		
46	VLRX	X		
66	VLRX	X		
92	VLRX	X		



# NOCCHI VLRI/X 2B

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

### HYDRAULIC PERFORMANCE



Head and NPSH valid for water with  $\rho=1,0 \text{ kg/dm}^3$  at  $20^\circ \text{C}$  of condensity

VLRI/X 2B	2900 rpm	50 Hz	ISO 9906 - Annex A
-----------	----------	-------	--------------------

MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

# NOCCHI VLRI/X 2B

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

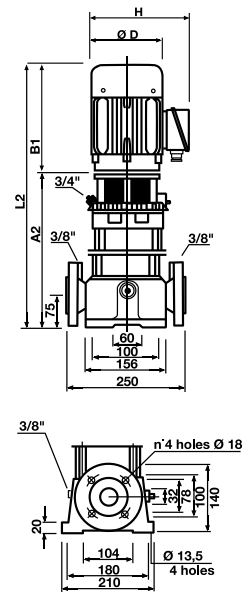
### PUMP PERFORMANCE

MODEL	Motor Power		Voltage	In (A)	µF.	Q	L/1'	10	20	30	40	50
	HP	kW					m³/h	0,6	1,2	1,8	2,4	3
VLRI/X 2B- 30/2 F M VLRI/X 2B- 30/2 F T	0,5	0,37	1-230 V 3-230 ÷ 400 V	2,8 1,7-1,0	12,5	m.c.a./m.c.w.		18	17	16	13	10
VLRI/X 2B- 30 F M VLRI/X 2B- 30 F T	0,5	0,37	1-230 V 3-230 ÷ 400 V	2,8 1,7-1,0	12,5		27	26	23	20	15	
VLRI/X 2B- 40 F M VLRI/X 2B- 40 F T	0,75	0,55	1-230 V 3-230 ÷ 400 V	4,2 2,6-1,5	16		36	34	31	26	20	
VLRI/X 2B- 50 F M VLRI/X 2B- 50 F T	0,75	0,55	1-230 V 3-230 ÷ 400 V	4,2 2,6-1,5	16		45	43	39	33	25	
VLRI/X 2B- 60 F M VLRI/X 2B- 60 F T	1	0,75	1-230 V 3-230 ÷ 400 V	5 3,5-2	25		54	51	46	39	30	
VLRI/X 2B- 70 F M VLRI/X 2B- 70 F T	1	0,75	1-230 V 3-230 ÷ 400 V	5 3,5-2	25		64	60	54	46	35	
VLRI/X 2B- 90 F M VLRI/X 2B- 90 F T	1,5	1,1	1-230 V 3-230 ÷ 400 V	7,9 4,5-2,6	31,5		82	77	70	59	45	
VLRI/X 2B-110 F M VLRI/X 2B-110 F T	1,5	1,1	1-230 V 3-230 ÷ 400 V	7,9 4,5-2,6	31,5		100	94	85	72	55	
VLRI/X 2B-130 F M VLRI/X 2B-130 F T	2	1,5	1-230 V 3-230 ÷ 400 V	10,5 6,1-3,5	36		118	111	101	85	65	
VLRI/X 2B-150 F M VLRI/X 2B-150 F T	2	1,5	1-230 V 3-230 ÷ 400 V	10,5 6,1-3,5	36		136	128	116	99	75	
VLRI/X 2B-180 F T	3	2,2	3-230 ÷ 400 V	8,5-4,9			163	154	139	118	90	
VLRI/X 2B-220 F T	3	2,2	3-230 ÷ 400 V	8,5-4,9			199	188	170	144	110	
VLRI/X 2B-260 F T	4	3	3-230 ÷ 400 V	11,6-6,7			235	222	201	170	130	

- Type F : with 1" 1/4 (DN32) round flanges. Counterflanges with 1" 1/4 GAS on request.
- Type A : ( on request up to VLRI/X 2B-150 ) with 1" 1/4 (DN32) oval flanges. Counterflanges 1" 1/4 GAS included.
- Type V : ( on request and only on VLRX ) :with 1" 1/4 connections for VICTAULIC type joint. Couplings on request.

### TABLE OF SIZES AND WEIGHTS

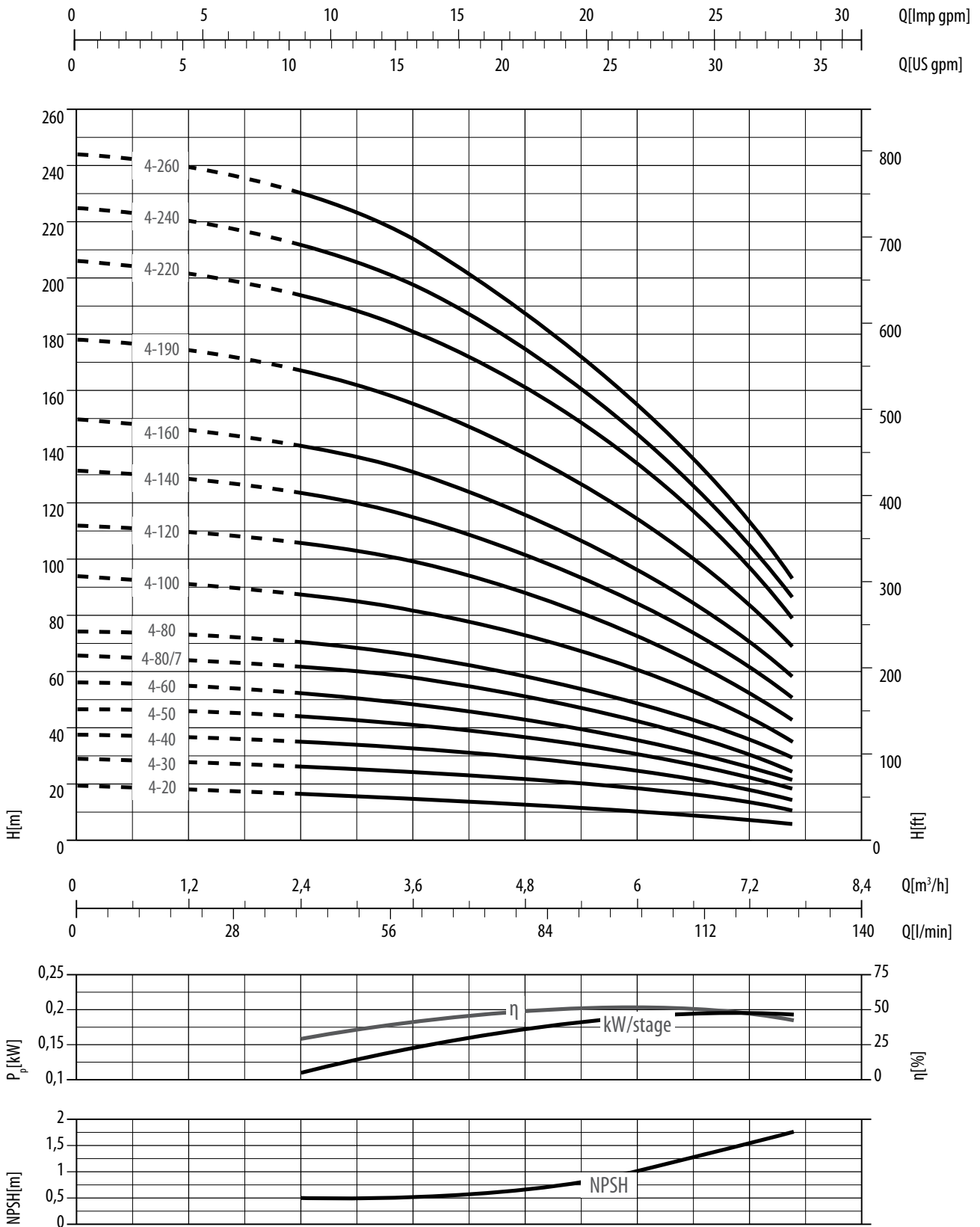
MODEL	Dimensions in mm.					Net Weight (Kg)
	A	B	L	D	H	
VLRI/X 2B - 30/2 F	250	215	465	158	168	26
VLRI/X 2B - 30 F	250	215	465	158	168	27
VLRI/X 2B - 40 F	268	215	483	158	168	29
VLRI/X 2B - 50 F	268	215	501	158	168	31
VLRI/X 2B - 60 F	308	245	553	170	203	32
VLRI/X 2B - 70 F	326	245	571	170	203	39
VLRI/X 2B - 90 F	362	245	607	170	203	39
VLRI/X 2B - 110 F	388	245	633	170	203	42
VLRI/X 2B - 130 F	453	255	708	180	205	43
VLRI/X 2B - 150 F	489	255	744	180	205	49
VLRI/X 2B - 180 F	568	280	848	180	205	49
VLRI/X 2B - 220 F	640	280	920	180	205	61
VLRI/X 2B - 260	716	300	1016	196	235	63



# NOCCHI VLRI/X 4

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

### HYDRAULIC PERFORMANCE



Head and NPSH valid for water with  $\rho=1,0 \text{ kg/dm}^3$  at  $20^\circ \text{C}$  of condensity

VLRI/X 4	2900 rpm	50 Hz	ISO 9906 - Annex A
----------	----------	-------	--------------------

MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

# NOCCHI VLRI/X 4


## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

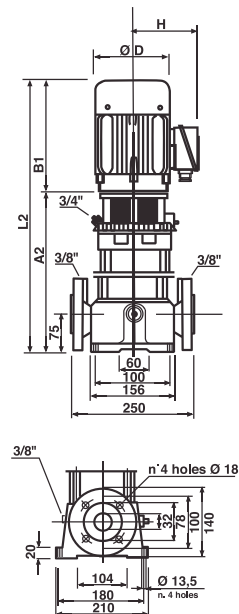
### PUMP PERFORMANCE

MODEL	Motor Power		Voltage	In (A)	µF.	Q	L/1'	40	60	80	100	120
	HP	kW					m³/h	2,4	3,6	4,8	6	7,2
VLRI/X 4- 20 F M VLRI/X 4- 20 F T	0,5	0,37	1-230 V 3-230 ÷ 400 V	2,8 1,7-1,0	12,5	m.c.a./m.c.w.	18	16	15	12	9	
VLRI/X 4- 30 F M VLRI/X 4- 30 F T	0,75	0,55	1-230 V 3-230 ÷ 400 V	4,2 2,6-1,5	16		27	25	22	18	13	
VLRI/X 4- 40 F M VLRI/X 4- 40 F T	1	0,75	1-230 V 3-230 ÷ 400 V	5 3,5-2	25		35	33	29	24	18	
VLRI/X 4- 50 F M VLRI/X 4- 50 F T	1,5	1,1	1-230 V 3-230 ÷ 400 V	7,9 4,5-2,6	31,5		44	41	36	30	22	
VLRI/X 4- 60 F M VLRI/X 4- 60 F T	1,5	1,1	1-230 V 3-230 ÷ 400 V	7,9 4,5-2,6	31,5		53	49	44	36	27	
VLRI/X 4- 80/7 F M VLRI/X 4- 80/7 F T	2	1,5	1-230 V 3-230 ÷ 400 V	10,5 6,1-3,5	36		62	58	51	43	31	
VLRI/X 4- 80 F M VLRI/X 4- 80 F T	2	1,5	1-230 V 3-230 ÷ 400 V	10,5 6,1-3,5	36		71	66	58	49	35	
VLRI/X 4-100 F T	3	2,2	3-230 ÷ 400 V	8,5-4,9			89	82	73	61	44	
VLRI/X 4-120 F T	3	2,2	3-230 ÷ 400 V	8,5-4,9			106	99	87	73	53	
VLRI/X 4-140 F T	4	3	3-230 ÷ 400 V	11,6-6,7			124	115	102	85	62	
VLRI/X 4-160 F T	4	3	3-230 ÷ 400 V	11,6-6,7			142	131	117	97	71	
VLRI/X 4-190 F T	5,5	4	3-230 ÷ 400 V	14,3-8,3			168	156	138	115	84	
VLRI/X 4-220 F T	5,5	4	3-230 ÷ 400 V	14,3-8,3			195	181	160	134	97	
VLRI/X 4-240 F T	7,5	5,5	3-400 ÷ 690 V	11,3-8,5			213	197	175	146	106	
VLRI/X 4-260 F T	7,5	5,5	3-400 ÷ 690 V	11,3-8,5			230	214	189	158	115	

- Type F : with 1" 1/4 (DN32) round flanges. Counterflanges with 1" 1/4 GAS on request.
- Type A : (on request up to VLRI/X 4-160) with 1 1/4 (DN32) oval flanges. Counterflanges with 1 1/4 GAS thread included.
- Type V : (on request and only on VLRI/X) with 1 1/4 connections for VICTAULIC type joint. Couplings on request.

### TABLE OF SIZES AND WEIGHTS

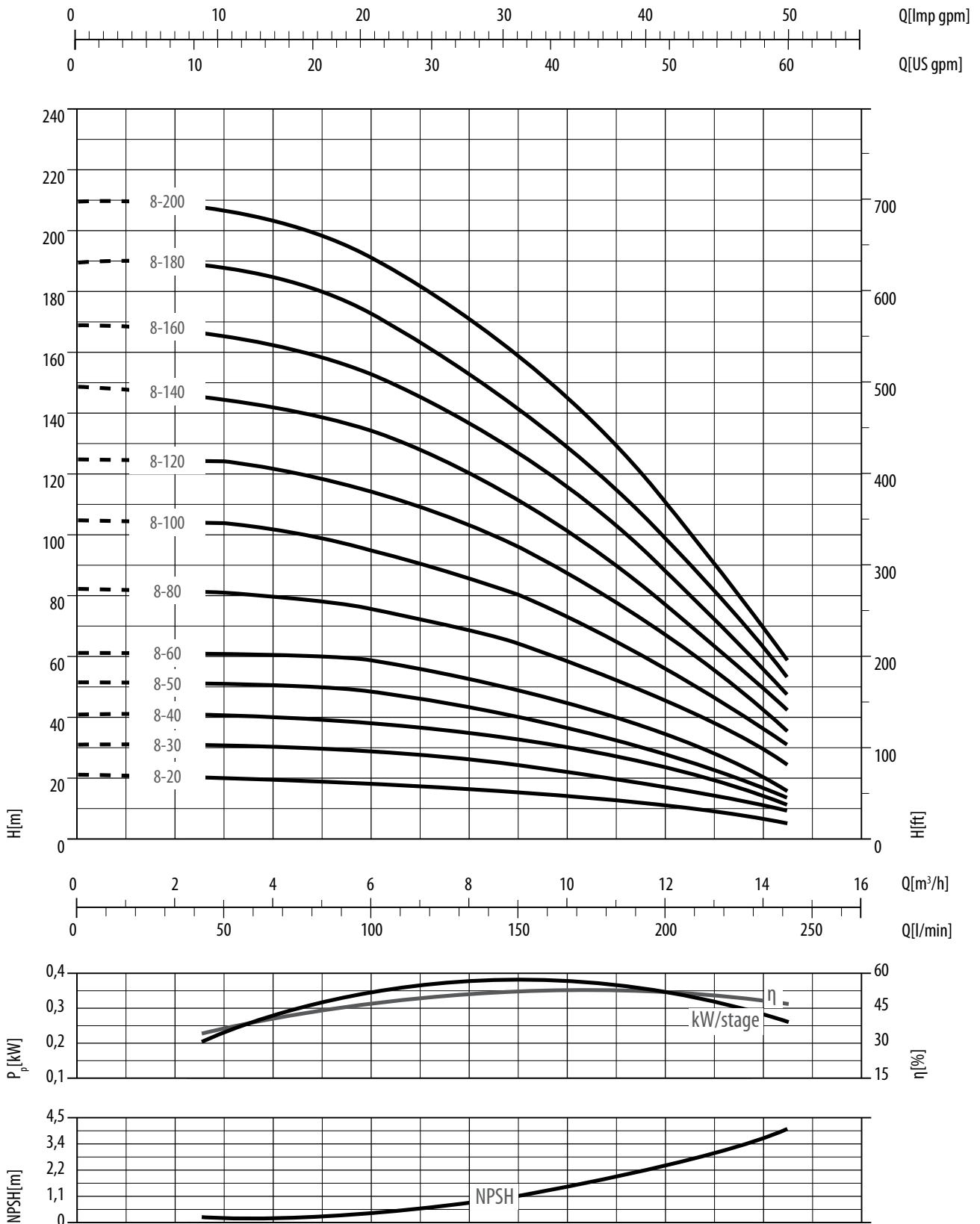
MODEL	Dimensions in mm.					Net Weight (Kg)
	A	B	L	D	H	
VLRI/X 4 - 20 F	250	215	465	158	168	26
VLRI/X 4 - 30 F	277	215	492	158	168	27
VLRI/X 4 - 40 F	308	245	553	170	203	29
VLRI/X 4 - 50 F	335	245	580	170	203	31
VLRI/X 4 - 60 F	362	245	607	170	203	32
VLRI/X 4 - 80/7 F	435	255	690	180	205	39
VLRI/X 4 - 80 F	435	255	690	180	205	39
VLRI/X 4 - 100 F	489	280	769	180	205	42
VLRI/X 4 - 120 F	543	280	823	180	205	43
VLRI/X 4 - 140 F	601	300	901	196	235	49
VLRI/X 4 - 160 F	655	300	955	196	235	49
VLRI/X 4 - 190 F	761	325	1086	218	256	61
VLRI/X 4 - 220 F	842	325	1167	218	256	63
VLRI/X 4 - 240 F	923	390	1313	350	350	87
VLRI/X 4 - 260 F	977	390	1367	350	350	89



# NOCCHI VLRI/X 8

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

### HYDRAULIC PERFORMANCE



Head and NPSH valid for water with  $\rho=1,0 \text{ kg/dm}^3$  at  $20^\circ \text{C}$  of condensity

VLRI/X 8	2900 rpm	50 Hz	ISO 9906 - Annex A
----------	----------	-------	--------------------

MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

# NOCCHI VLRI/X 8

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

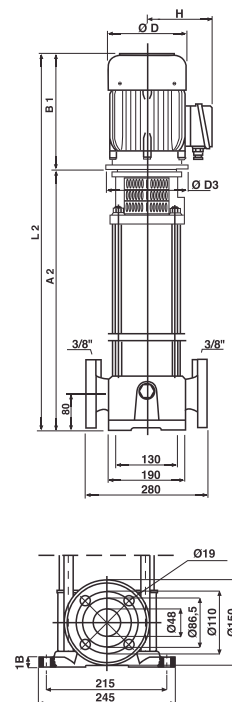
### PUMP PERFORMANCE

MODEL	Motor Power		Voltage	In (A)	μF.	Q	L/1'	50	100	150	175	200	
	HP	kW					m³/h	3	6	9	10,5	12	
VLRI/X 8 - 20 F M VLRI/X 8 - 20 F T	1	0,75	1-230 V 3-230 ÷ 400 V	5 3,5-1,9	25	m.c.d./m.c.v.		21	19	16	14	11	
VLRI/X 8 - 30 F M VLRI/X 8 - 30 F T	1,5	1,1	1-230 V 3-230 ÷ 400 V	7,9 4,5-2,6	31,5			31	29	24	21	16	
VLRI/X 8 - 40 F M VLRI/X 8 - 40 F T	2	1,5	1-230 V 3-230 ÷ 400 V	10,5 6,1-3,5	36			41	38	32	27	22	
VLRI/X 8 - 50 F T	3	2,2	3-230 ÷ 400 V	8,5-4,9				52	48	40	34	27	
VLRI/X 8 - 60 F T	3	2,2	3-230 ÷ 400 V	8,5-4,9				62	58	48	41	33	
VLRI/X 8 - 80 F T	4	3	3-230 ÷ 400 V	11,6-6,7				82	77	64	55	44	
VLRI/X 8 - 100 F T	5,5	4	3-230 ÷ 400 V	14,3-8,3				103	96	80	69	55	
VLRI/X 8 - 120 F T	5,5	4	3-230 ÷ 400 V	14,3-8,3				124	115	96	82	65	
VLRI/X 8 - 140 F T	7,5	5,5	3-400 ÷ 690 V	11,3-8,5				144	134	112	96	76	
VLRI/X 8 - 160 F T	7,5	5,5	3-400 ÷ 690 V	11,3-8,5				165	154	128	110	87	
VLRI/X 8 - 180 F T	10	7,5	3-400 ÷ 690 V	14,3-8,3				185	173	144	123	98	
VLRI/X 8 - 200 F T	10	7,5	3-400 ÷ 690 V	14,3-8,3				206	192	160	137	109	

- Type F : with 1" 1/2 (DN40) round flanges. Counterflanges with 1" 1/2 GAS thread on request.
- Type V : ( on request and only on VLRX ) with 2" connections for VICTAULIC type joint. Couplings on request.

### TABLE OF SIZES AND WEIGHTS

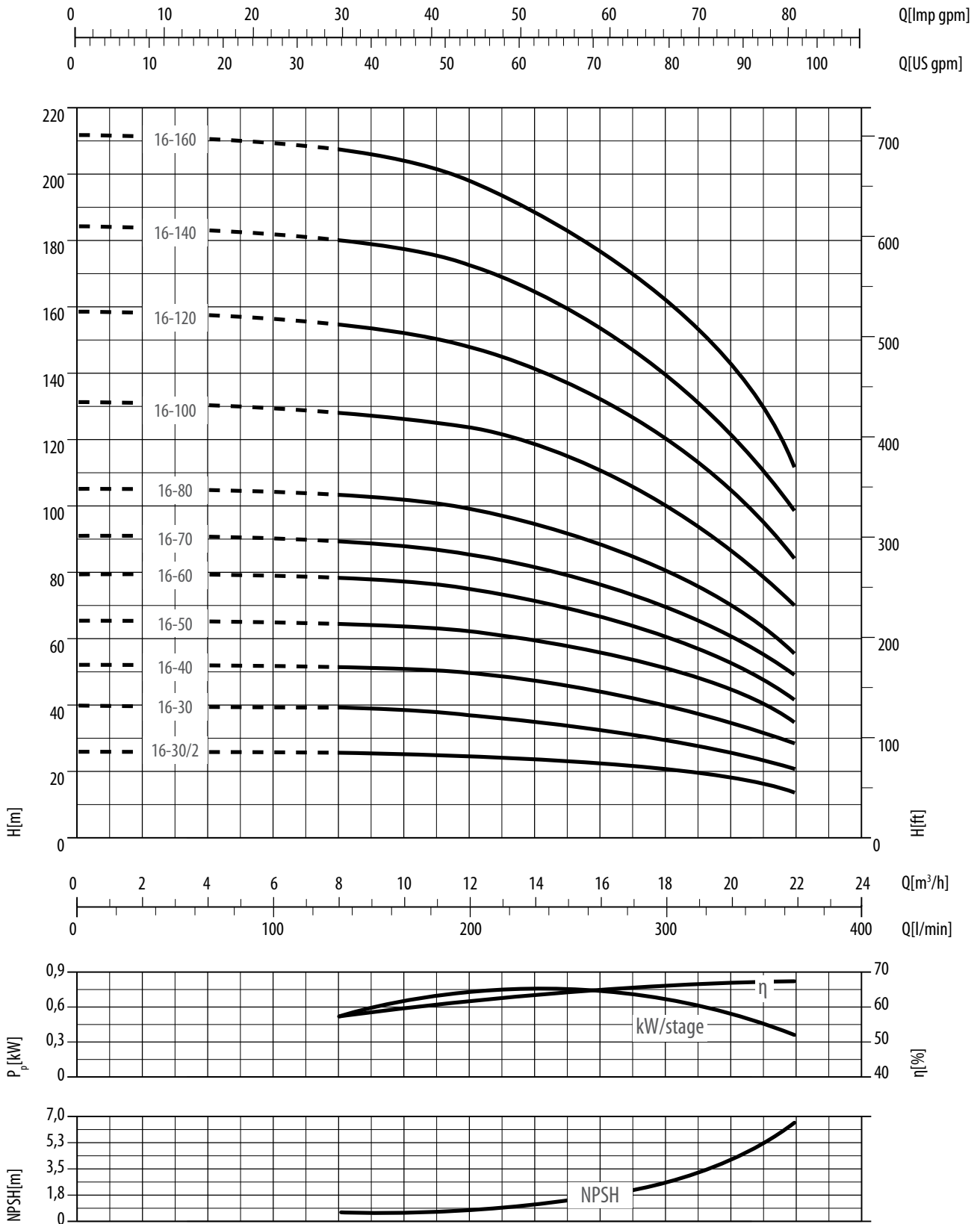
MODEL	Dimensions in mm.						Net Weight (Kg)
	A	B	L	D	H	D <sub>3</sub>	
VLRI/X 8 - 20 F	245	237	422	160	131	-	33
VLRI/X 8 - 30 F	375	237	612	160	131	-	35
VLRI/X 8 - 40 F	420	265	685	185	130	-	43
VLRI/X 8 - 50 F T	450	265	715	185	130	-	45
VLRI/X 8 - 60 F T	480	265	745	185	130	-	46
VLRI/X 8 - 80 F T	545	315	860	200	140	-	54
VLRI/X 8 - 100 F T	605	335	940	200	140	-	55
VLRI/X 8 - 120 F T	665	335	1000	200	140	-	59
VLRI/X 8 - 140 F T	745	385	1130	260	185	300	80
VLRI/X 8 - 160 F	805	385	1190	260	185	300	81
VLRI/X 8 - 180 F T	865	385	1250	260	185	300	85
VLRI/X 8 - 200 F T	925	385	1310	260	185	300	86



# NOCCHI VLRI/X 16

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

### HYDRAULIC PERFORMANCE



VLRI/X 16	2900 rpm	50 Hz	ISO 9906 - Annex A
-----------	----------	-------	--------------------

MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

# NOCCHI VLRI/X 16

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL


### PUMP PERFORMANCE

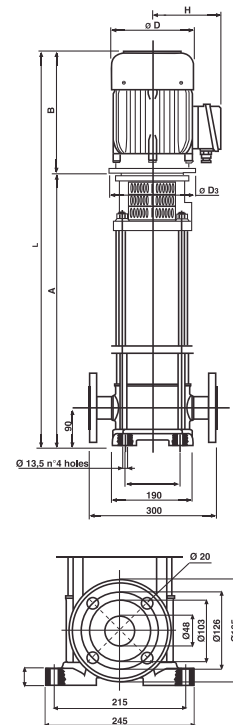
MODEL	Motor Power		Voltage	In (A)	Q	L/1'	100	200	250	300	350
	HP	kW				m <sup>3</sup> /h	6	12	15	18	21
VLRI/X 16 - 30/2F T	3	2.2	3-230 ÷ 400 V	8,5-4,9	m.c.a. / m.c.w.		26	25	23	20	16
VLRI/X 16 - 30 F T	4	3	3-230 ÷ 400 V	11,6-6,7		39	37	34	30	24	
VLRI/X 16 - 40 F T	5,5	4	3-230 ÷ 400 V	14,3-8,3		52	49	46	40	32	
VLRI/X 16 - 50 F T	7,5	5,5	3-400 ÷ 690 V	11,3-8,5		65	62	57	51	40	
VLRI/X 16 - 60 F T	7,5	5,5	3-400 ÷ 690 V	11,3-8,5		78	74	69	61	47	
VLRI/X 16 - 70 F T	10	7,5	3-400 ÷ 690 V	14,3-8,3		91	86	80	71	55	
VLRI/X 16 - 80 F T	10	7,5	3-400 ÷ 690 V	14,3-8,3		104	98	92	81	63	
VLRI/X 16 - 100 F T	15	11	3-400 ÷ 690 V	21-12,1		130	123	115	101	79	
VLRI/X 16 - 120 F T	15	11	3-400 ÷ 690 V	21-12,1		156	148	137	121	95	
VLRI/X 16 - 140 F T	20	15	3-400 ÷ 690 V	28-12,6		182	172	160	142	111	
VLRI/X 16 - 160 F T	20	15	3-400 ÷ 690 V	28-12,6		208	197	183	162	126	

Type F : with 2" (DN50) round flanges. Counterflanges with 2" GAS thread on request.

Type V : ( on request and only on VLRI ) with 2" connections for VICTAULIC type joint.

### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions in mm.						Net Weight (Kg)
	A	B	L	D	H	D <sub>3</sub>	
VLRI/X 16 - 20 F T	460	265	725	185	130	140	52
VLRI/X 16 - 30 F T	464	315	779	200	140	250	56
VLRI/X 16 - 40 F T	509	335	844	200	140	250	59
VLRI/X 16 - 50 F T	575	385	960	260	185	300	82
VLRI/X 16 - 60 F T	620	385	1005	260	185	300	84
VLRI/X 16 - 70 F T	665	385	1050	260	185	300	90
VLRI/X 16 - 80 F T	710	385	1095	260	185	300	92
VLRI/X 16 - 100 F T	830	495	1325	260	185	350	136
VLRI/X 16 - 120 F T	920	495	1425	260	185	350	140
VLRI/X 16 - 140 F T	1010	495	1505	310	230	350	181
VLRI/X 16 - 160 F T	1100	495	1595	310	230	350	185

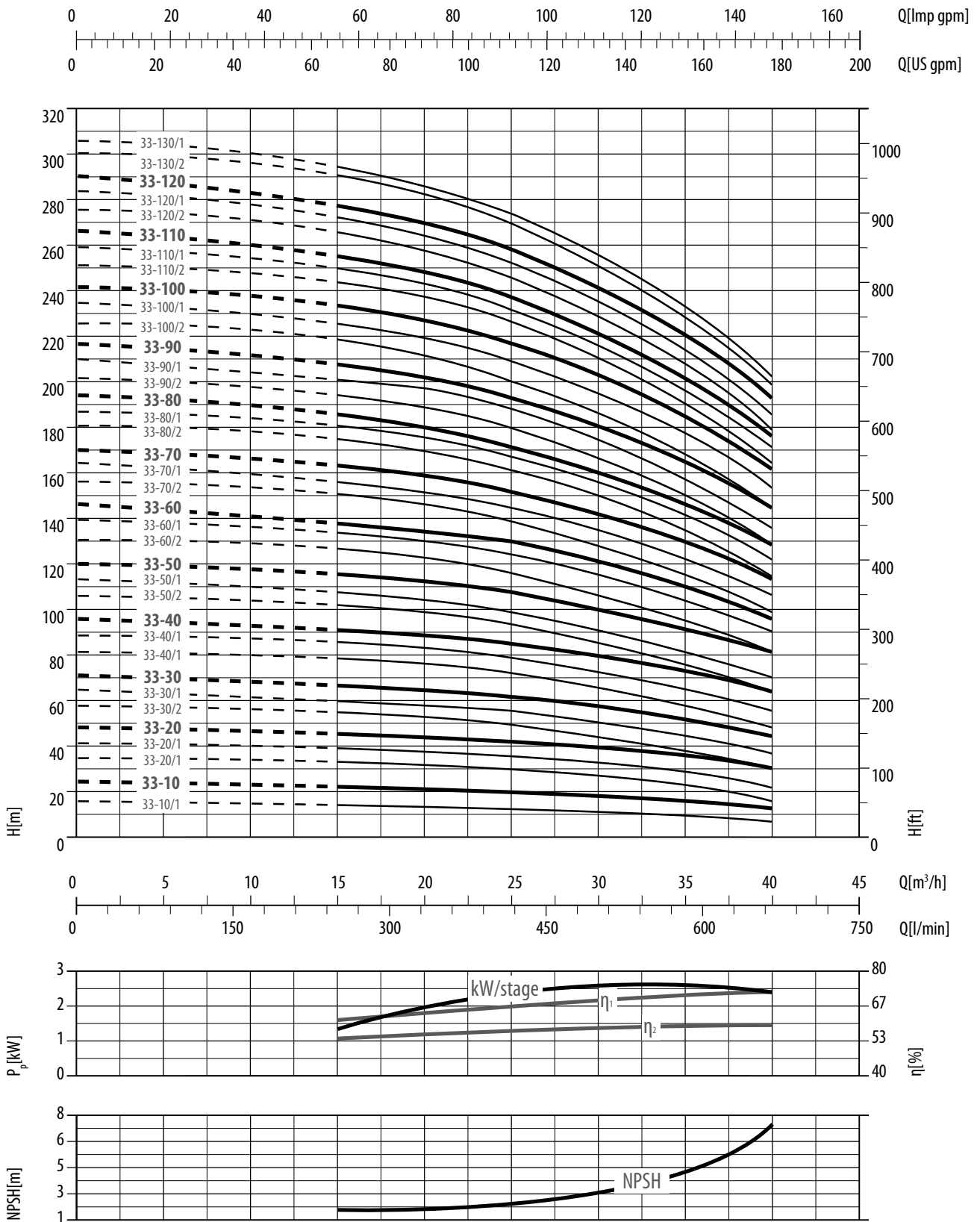




# NOCCHI VLRX 33

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

### HYDRAULIC PERFORMANCE



Head and NPSH valid for water with  $\rho=1,0 \text{ kg/dm}^3$  at  $20^\circ \text{ C}$  of condensity

VLRX 33	2900 rpm	50 Hz	ISO 9906 - Annex A
---------	----------	-------	--------------------

MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

# NOCCHI VLRX 33

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

### PUMP PERFORMANCE


MODEL	Motor Power		Voltage	In (A)	Q	L/1'	0	300	417	500	667
	HP	kW				m <sup>3</sup> /h	0	18	25	30	40
VLRX 33-10/1 T	3	2,2	3 ~ 230÷400 V	7,6-4,4	m.c.a./m.c.w.	17	16	14	12	7	
VLRX 33-10 T	4	3	3 ~ 230÷400 V	10,2-5,9		24	21	20	18	13	
VLRX 33-20/2 F T	5,5	4	3 ~ 230÷400 V	13,5-7,8		35	33	30	27	17	
VLRX 33-20/1 F T	5,5	4	3 ~ 230÷400 V	13,5-7,8		41	38	35	32	22	
VLRX 33-20 F T	7,5	5,5	3 ~ 400÷690 V	10,2-5,9		48	44	41	39	30	
VLRX 33-30/2 F T	7,5	5,5	3 ~ 400÷690 V	10,2-5,9		58	54	49	44	30	
VLRX 33-30/1 F T	10	7,5	3 ~ 400÷690 V	13,8-7,9		65	60	56	51	37	
VLRX 33-30 F T	10	7,5	3 ~ 400÷690 V	13,8-7,9		72	66	62	58	45	
VLRX 33-40/2 F T	10	7,5	3 ~ 400÷690 V	13,8-7,9		82	77	72	66	47	
VLRX 33-40/1 F T	15	11	3 ~ 400÷690 V	20,2-11,7		89	83	78	73	55	
VLRX 33-40 F T	15	11	3 ~ 400÷690 V	20,2-11,7		96	90	85	80	63	
VLRX 33-50/2 F T	15	11	3 ~ 400÷690 V	20,2-11,7		106	100	93	85	63	
VLRX 33-50-1 F T	15	11	3 ~ 400÷690 V	20,2-11,7		113	105	99	92	70	
VLRX 33-50 F T	20	15	3 ~ 400÷690 V	27-15,6		120	113	107	101	81	
VLRX 33-60/2 F T	20	15	3 ~ 400÷690 V	27-15,6		131	125	116	108	81	
VLRX 33-60/1 F T	20	15	3 ~ 400÷690 V	27-15,6		139	131	124	116	90	
VLRX 33-60 F T	20	15	3 ~ 400÷690 V	27-15,6		146	137	129	121	96	
VLRX 33-70/2 F T	20	15	3 ~ 400÷690 V	27-15,6		156	147	138	128	98	
VLRX 33-70/1 F T	25	18,5	3 ~ 400÷690 V	33-19		163	154	145	136	106	
VLRX 33-70 F T	25	18,5	3 ~ 400÷690 V	33-19		170	160	152	142	113	
VLRX 33-80/2 F T	25	18,5	3 ~ 400÷690 V	33-19		181	171	161	150	115	
VLRX 33-80/1 F T	25	18,5	3 ~ 400÷690 V	33-19		187	177	166	156	122	
VLRX 33-80 F T	30	22	3 ~ 400÷690 V	39-22,6		194	182	172	161	128	
VLRX 33-90/2 F T	30	22	3 ~ 400÷690 V	39-22,6		202	191	179	166	128	
VLRX 33-90/1 F T	30	22	3 ~ 400÷690 V	39-22,6		210	198	186	174	136	
VLRX 33-90 F T	30	22	3 ~ 400÷690 V	39-22,6		217	204	193	181	144	
VLRX 33-100/2 F T	30	22	3 ~ 400÷690 V	39-22,6		226	213	200	186	144	
VLRX 33-100/1 F T	40	30	3 ~ 400÷690 V	51,8-30		235	221	209	196	154	
VLRX 33-100 F T	40	30	3 ~ 400÷690 V	51,8-30		242	228	216	203	162	
VLRX 33-110-2 F T	40	30	3 ~ 400÷690 V	51,8-30		252	240	226	211	164	
VLRX 33-110/1 F T	40	30	3 ~ 400÷690 V	51,8-30		259	245	232	217	171	
VLRX 33-110 F T	40	30	3 ~ 400÷690 V	51,8-30		266	250	236	222	177	
VLRX 33-120/2 F T	40	30	3 ~ 400÷690 V	51,8-30		276	262	246	229	178	
VLRX 33-120/1 F T	40	30	3 ~ 400÷690 V	51,8-30	283	267	252	236	186		
VLRX 33-120 F T	40	30	3 ~ 400÷690 V	51,8-30	290	272	258	242	193		
VLRX 33-130/2 F T	40	30	3 ~ 400÷690 V	51,8-30	301	286	270	252	198		
VLRX 33-130/1 F T	40	30	3 ~ 400÷690 V	51,8-30	307	290	274	256	202		

Pumps with DN65 PN 16 up to VLRX 33-60/2; PN25 from VLRX 33-60 to 33-10; PN40 from VLRX 33-110/2 to 33-130/1. Counterflanges on request.

# NOCCHI VLRX 33

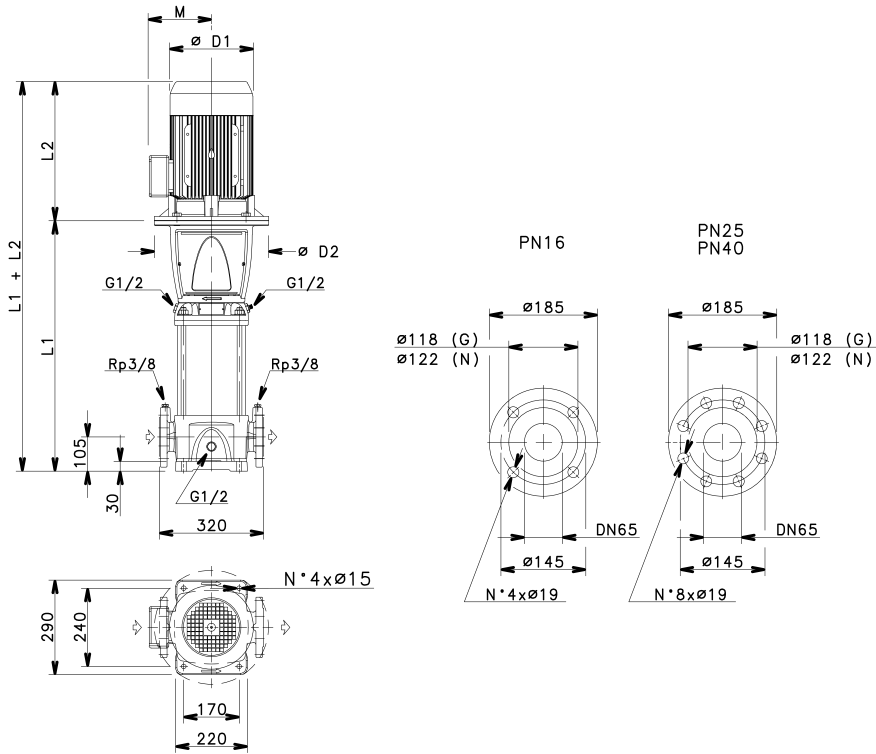
## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions in mm.						Net Weight (Kg)
	L <sub>1</sub>	L <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	M	PN	
VLRX 33-10/1 T	489	268	178	164	137	16	68
VLRX 33-10 T	489	268	178	164	137	16	71
VLRX 33-20/2 F T	564	319	197	164	154	16	82,5
VLRX 33-20/1 F T	564	319	197	164	154	16	82,5
VLRX 33-20 F T	584	375	214	300	168	16	98,5
VLRX 33-30/2 F T	659	375	214	300	168	16	103
VLRX 33-30/1 F T	659	367	256	300	191	16	121
VLRX 33-30 F T	659	367	256	300	191	16	121
VLRX 33-40/2 F T	734	367	256	300	191	16	125
VLRX 33-40/1 F T	769	428	256	350	191	16	143
VLRX 33-40 F T	769	428	256	350	191	16	143
VLRX 33-50/2 F T	844	428	256	350	191	16	147
VLRX 33-50-1 F T	844	428	256	350	191	16	147
VLRX 33-50 F T	844	494	313	350	240	16	179
VLRX 33-60/2 F T	919	494	313	350	240	16	183
VLRX 33-60/1 F T	919	494	313	350	240	25	183
VLRX 33-60 F T	919	494	313	350	240	25	183
VLRX 33-70/2 F T	994	494	313	350	240	25	186
VLRX 33-70/1 F T	994	494	313	350	240	25	195
VLRX 33-70 F T	994	494	313	350	240	25	195
VLRX 33-80/2 F T	1069	494	313	350	240	25	199
VLRX 33-80/1 F T	1069	494	313	350	240	25	199
VLRX 33-80 F T	1069	494	313	350	240	25	210
VLRX 33-90/2 F T	1144	494	313	350	240	25	214
VLRX 33-90/1 F T	1144	494	313	350	240	25	214
VLRX 33-90 F T	1144	494	313	350	240	25	214
VLRX 33-100/2 F T	1219	494	313	350	240	25	218
VLRX 33-100/1 F T	1219	657	402	400	317	25	319
VLRX 33-100 F T	1219	657	402	400	317	25	319
VLRX 33-110-2 F T	1294	657	402	400	317	40	333
VLRX 33-110/1 F T	1294	657	402	400	317	40	333
VLRX 33-110 F T	1294	657	402	400	317	40	333
VLRX 33-120/2 F T	1369	657	402	400	317	40	337
VLRX 33-120/1 F T	1369	657	402	400	317	40	337
VLRX 33-120 F T	1369	657	402	400	317	40	337
VLRX 33-130/2 F T	1444	657	402	400	317	40	342
VLRX 33-130/1 F T	1444	657	402	400	317	40	342

# NOCCHI VLRX 33

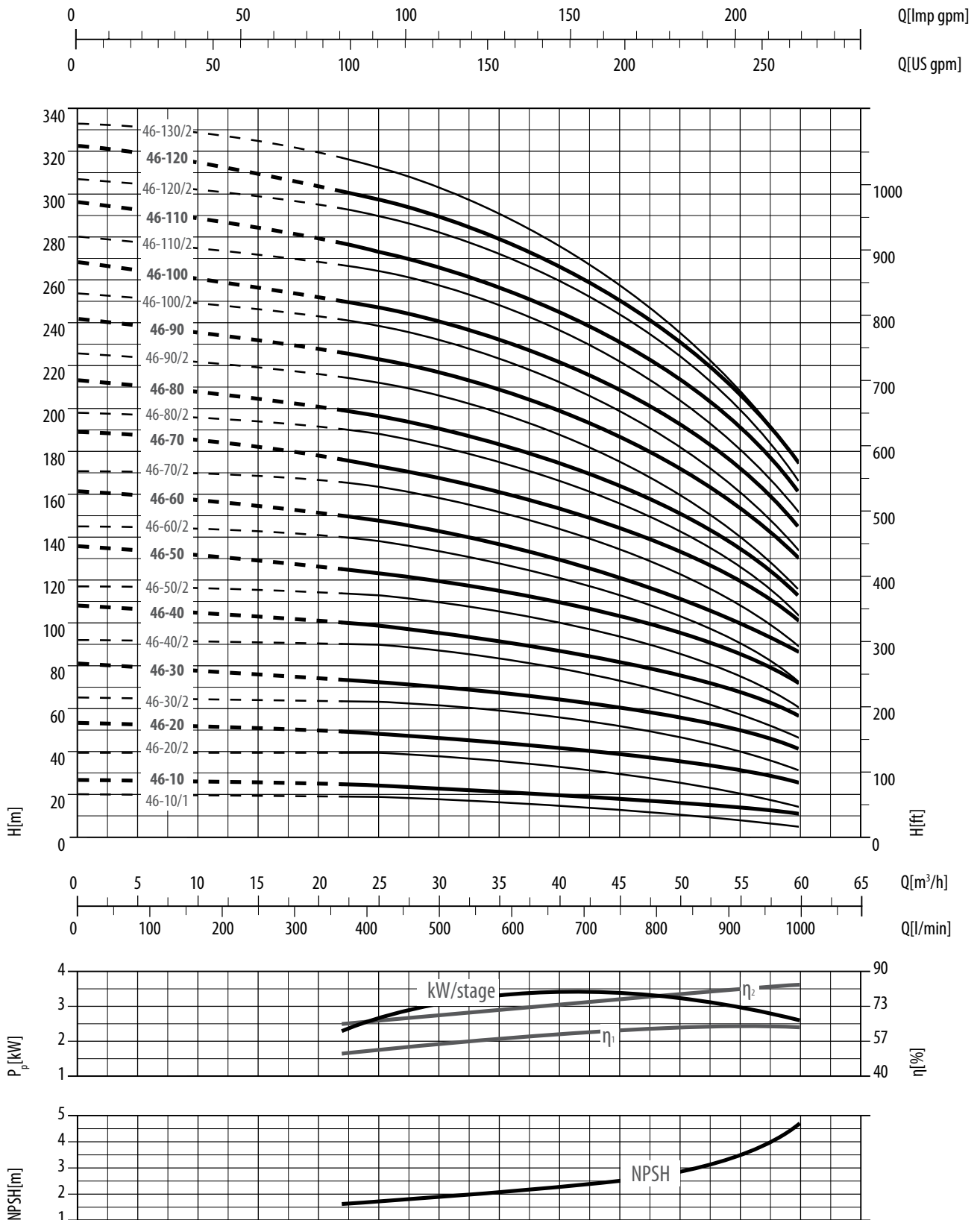
VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL



# NOCCHI VLRX 46

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

### HYDRAULIC PERFORMANCE



Head and NPSH valid for water with  $\rho=1.0 \text{ kg/dm}^3$  at  $20^\circ \text{C}$  of condensity

VLRX 46	2900 rpm	50 Hz	ISO 9906 - Annex A
---------	----------	-------	--------------------

MEI  $\geq 0.1$  - Benchmark MEI  $\geq 0.70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

# NOCCHI VLRX 46

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

### PUMP PERFORMANCE

MODEL	Motor Power		Voltage	In (A)	Q	L/1'	367	417	500	583	667	750	900	1000
	HP	kW					22	25	30	35	40	45	54	60
VLRX 46-10/1	4	3	3-230 ÷ 400 V	5	m.c.a./m.c.w.		19	19	18	17	15	13	9	5
VLRX 46-10	5,5	4	3-230 ÷ 400 V	8,6		24	24	23	21	20	18	14	14	11
VLRX 46-20/2	7,5	5,5	3-400 ÷ 690 V	10,9		40	39	38	36	33	29	21	21	14
VLRX 46-20	10	7,5	3-400 ÷ 690 V	14,7		49	48	46	44	42	39	31	31	25
VLRX 46-30/2	15	11	3-400 ÷ 690 V	21		65	64	62	60	56	52	40	40	31
VLRX 46-30	15	11	3-400 ÷ 690 V	21		74	73	71	68	65	60	50	50	41
VLRX 46-40/2	20	15	3-400 ÷ 690 V	29		91	90	87	83	79	73	58	58	46
VLRX 46-40	20	15	3-400 ÷ 690 V	29		100	98	96	92	87	82	68	68	56
VLRX 46-50/2	25	18,5	3-400 ÷ 690 V	35		115	113	110	106	100	93	75	75	60
VLRX 46-50	25	18,5	3-400 ÷ 690 V	35		125	123	120	116	110	103	86	86	72
VLRX 46-60/2	30	22	3-400 ÷ 690 V	42		139	138	134	129	122	113	92	92	73
VLRX 46-60	30	22	3-400 ÷ 690 V	42		150	148	144	139	132	124	104	104	86
VLRX 46-70/2	40	30	3-400 ÷ 690 V	55		165	163	158	152	144	134	110	110	89
VLRX 46-70	40	30	3-400 ÷ 690 V	55		176	173	168	162	155	145	122	122	101
VLRX 46-80/2	40	30	3-400 ÷ 690 V	55		190	188	182	176	166	155	127	127	103
VLRX 46-80	40	30	3-400 ÷ 690 V	55		199	196	191	184	175	164	137	137	113
VLRX 46-90/2	40	30	3-400 ÷ 690 V	55		215	212	206	198	187	174	143	143	116
VLRX 46-90	50	37	3-400 ÷ 690 V	65		225	222	217	209	199	187	157	157	130
VLRX 46-100/2	50	37	3-400 ÷ 690 V	65		241	238	232	223	212	198	164	164	134
VLRX 46-100	50	37	3-400 ÷ 690 V	65		250	247	241	232	221	208	174	174	145
VLRX 46-110/2	60	45	3-400 ÷ 690 V	80		267	264	258	249	237	222	184	184	151
VLRX 46-110	60	45	3-400 ÷ 690 V	80		276	273	266	257	245	230	194	194	161
VLRX 46-120/2	60	45	3-400 ÷ 690 V	80		293	289	282	272	259	243	202	202	166
VLRX 46-120	60	45	3-400 ÷ 690 V	80		301	297	290	280	267	250	210	210	175
VLRX 46-130/2	60	45	3-400 ÷ 690 V	80	316	312	304	292	277	259	214	214	175	

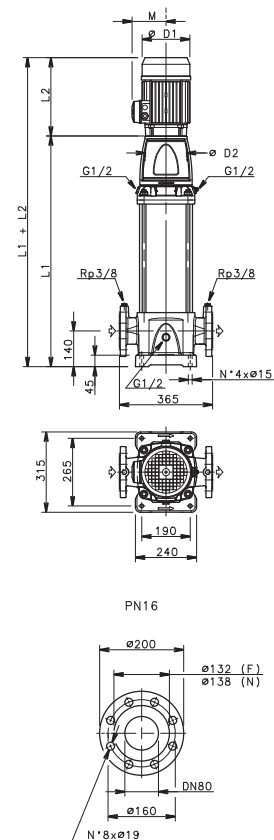
Pump with DN80 PN16 (VLR46-10/1, VLR 46-50); PN25 from VLR 46-60/2 to 46-90; PN 40 from VLR 46-100 to 46-130/2 round flanges. Counterflanges on request.

# NOCCHI VLRX 46

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

TABLE OF SIZES AND WEIGHTS

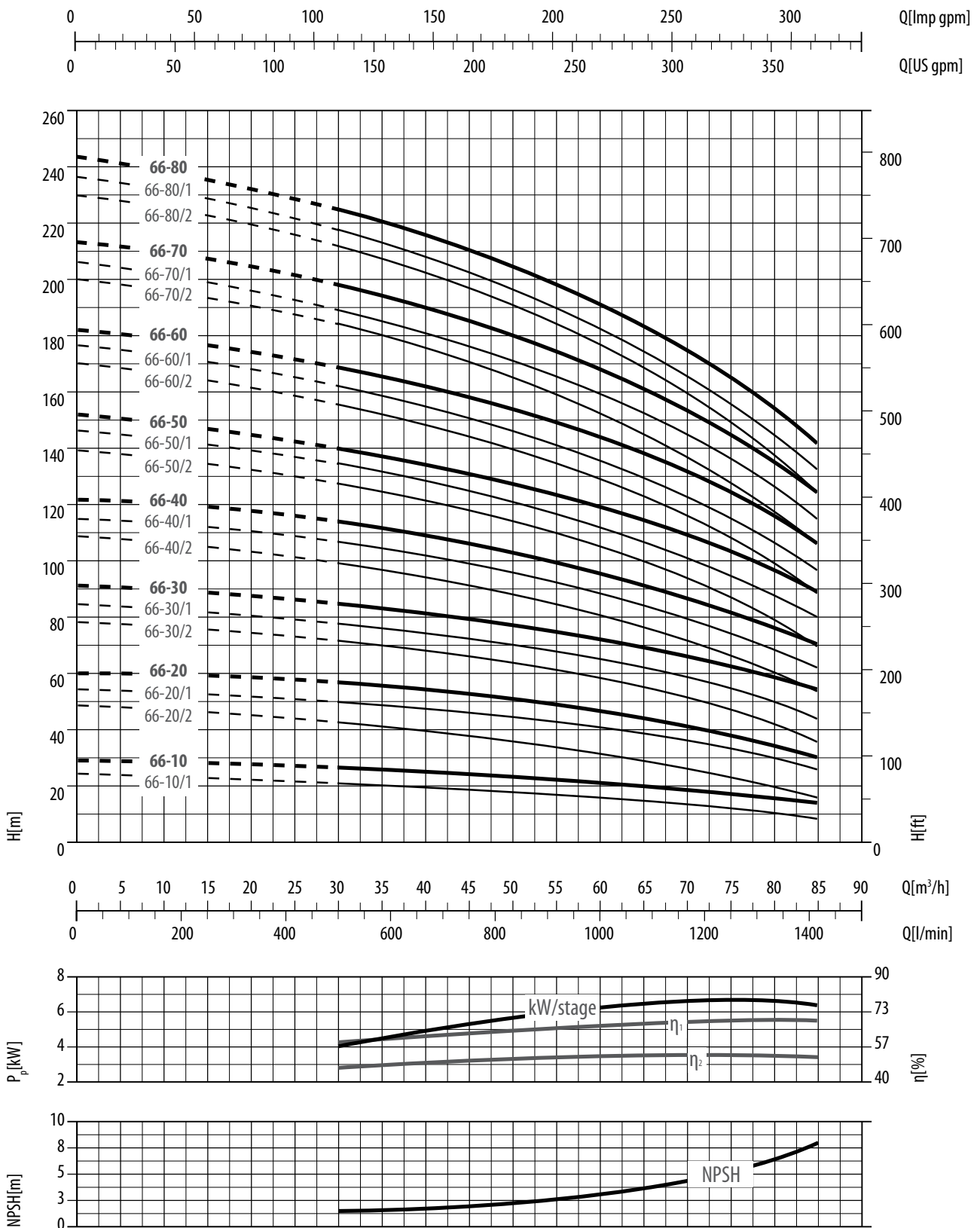
MODEL	Dimensions in mm.					Net Weight (Kg)
	L <sub>1</sub>	L <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	M	
VLRX 46-10/1	529	298	174	164	134	79
VLRX 46-10	529	319	197	164	154	84,5
VLRX 46-20/2	624	375	214	300	168	104
VLRX 46-20	624	367	356	300	191	122
VLRX 46-30/2	734	428	256	350	191	144
VLRX 46-30	734	428	256	350	191	144
VLRX 46-40/2	809	494	313	350	240	180
VLRX 46-40	809	494	313	350	240	180
VLRX 46-50/2	884	494	313	350	240	193
VLRX 46-50	884	494	313	350	240	193
VLRX 46-60/2	959	494	313	350	240	208
VLRX 46-60	959	494	313	350	240	208
VLRX 46-70/2	1034	613	354	400	278	230
VLRX 46-70	1034	613	354	400	278	230
VLRX 46-80/2	1109	613	354	400	278	234
VLRX 46-80	1109	613	354	400	278	234
VLRX 46-90/2	1184	613	354	400	278	238
VLRX 46-90	1184	613	354	400	278	238
VLRX 46-100/2	1259	613	354	400	278	248
VLRX 46-100	1259	613	354	400	278	257
VLRX 46-110/2	1334	710	411	450	298	257
VLRX 46-110	1334	710	411	450	298	345
VLRX 46-120/2	1409	710	411	450	298	345
VLRX 46-120	1409	710	411	450	298	350
VLRX 46-130/2	1484	710	411	450	298	354



# NOCCHI VLRX 66

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

### HYDRAULIC PERFORMANCE



Head and NPSH valid for water with  $\rho=1,0 \text{ kg/dm}^3$  at  $20^\circ \text{ C}$  of condensity

VLRX 66	2900 rpm	50 Hz	ISO 9906 - Annex A
---------	----------	-------	--------------------

MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)



# NOCCHI VLRX 66

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

### PUMP PERFORMANCE

MODEL	Motor Power		Voltage	In (A)	Q	L/1'	500	600	700	750	900	1000	1200	1300	1417
	HP	kW					30	36	42	45	54	60	72	78	85
VLRX 66-10/1	5,5	4	3-230 ÷ 400 V	8,6	m.c.a. / m.c.w.		21	21	20	19	18	17	13	11	8
VLRX 66-10	7,5	5,5	3-400 ÷ 690 V	10,9		26	25	24	23	22	21	18	16	14	
VLRX 66-20/2	10	7,5	3-400 ÷ 690 V	14,7		43	41	40	39	36	33	26	22	16	
VLRX 66-20/1	15	11	3-400 ÷ 690 V	21		50	48	47	46	43	41	35	31	26	
VLRX 66-20	15	11	3-400 ÷ 690 V	21		56	54	53	52	49	47	42	39	35	
VLRX 66-30/2	20	15	3-400 ÷ 690 V	29		72	70	67	66	62	58	49	43	35	
VLRX 66-30/1	20	15	3-400 ÷ 690 V	29		78	76	74	72	68	65	56	51	44	
VLRX 66-30	25	18,5	3-400 ÷ 690 V	35		85	83	81	79	75	72	64	60	54	
VLRX 66-40/2	25	18,5	3-400 ÷ 690 V	35		100	97	94	92	86	82	70	63	53	
VLRX 66-40/1	30	22	3-400 ÷ 690 V	42		106	103	100	99	93	89	78	71	62	
VLRX 66-40	30	22	3-400 ÷ 690 V	42		113	110	107	105	100	96	86	79	71	
VLRX 66-50/2	40	30	3-400 ÷ 690 V	55		128	124	120	118	111	106	92	83	70	
VLRX 66-50/1	40	30	3-400 ÷ 690 V	55		134	131	127	125	118	112	99	91	80	
VLRX 66-50	40	30	3-400 ÷ 690 V	55		140	137	133	131	125	119	107	99	89	
VLRX 66-60/2	40	30	3-400 ÷ 690 V	55		156	152	147	144	136	129	113	103	88	
VLRX 66-60/1	40	30	3-400 ÷ 690 V	55		162	158	153	151	143	136	121	111	97	
VLRX 66-60	50	37	3-400 ÷ 690 V	65		169	164	160	158	150	143	128	119	106	
VLRX 66-70/2	50	37	3-400 ÷ 690 V	65		184	179	174	171	161	153	134	122	106	
VLRX 66-70/1	50	37	3-400 ÷ 690 V	65		190	185	180	177	168	160	142	131	115	
VLRX 66-70	60	45	3-400 ÷ 690 V	80		197	192	187	184	174	167	150	139	124	
VLRX 66-80/2	60	45	3-400 ÷ 690 V	80	212	206	200	197	186	177	156	142	124		
VLRX 66-80/1	60	45	3-400 ÷ 690 V	80	218	213	207	204	193	184	163	150	133		
VLRX 66-80	60	45	3-400 ÷ 690 V	80	225	219	213	210	199	191	171	159	142		

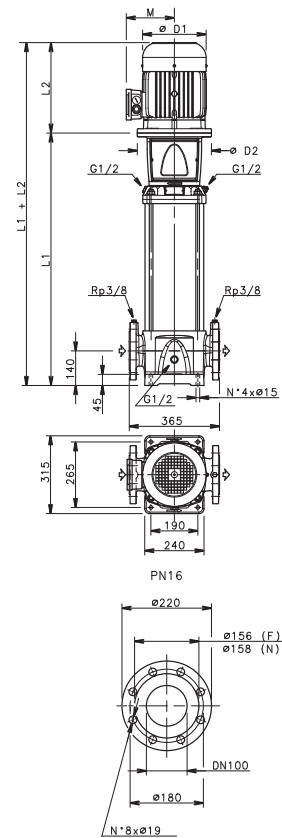
Flange DN 100 PN 16 from VLR 66-10/1 to 66-80. PN 25 from VLR 66-60 to 66-80 round flanges. Counterflanges on request

# NOCCHI VLRX 66

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

TABLE OF SIZES AND WEIGHTS

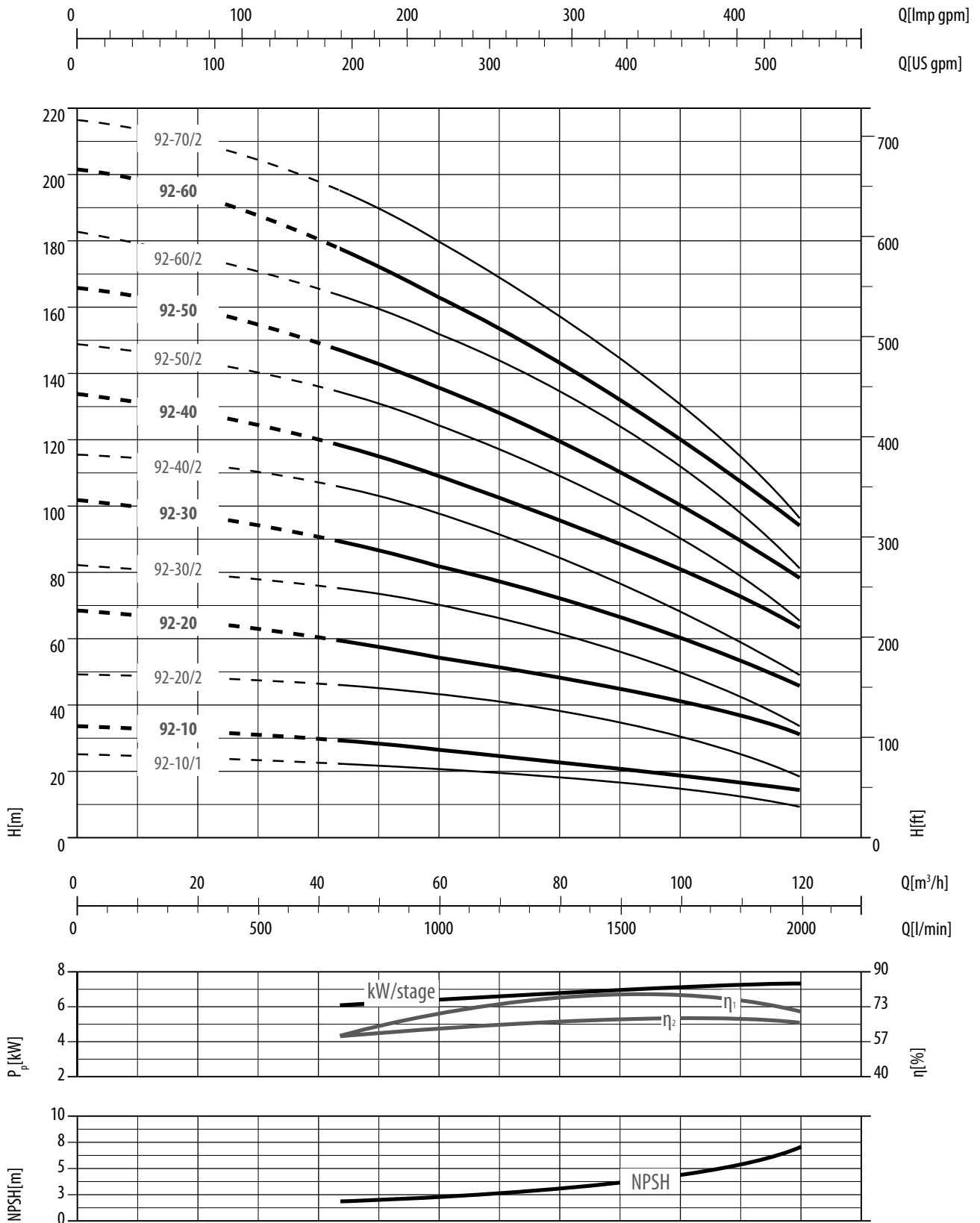
MODEL	Dimensions in mm.					Net Weight (Kg)
	L <sub>1</sub>	L <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	M	
VLRX 66-10/1	554	319	197	164	154	92,5
VLRX 66-10	574	375	214	300	168	110
VLRX 66-20/2	664	367	256	300	191	133
VLRX 66-20/1	699	428	256	300	191	151
VLRX 66-20	699	428	256	350	191	151
VLRX 66-30/2	789	494	313	350	240	188
VLRX 66-30/1	789	494	313	350	240	188
VLRX 66-30	789	494	313	350	240	197
VLRX 66-40/2	879	494	313	350	240	203
VLRX 66-40/1	879	494	313	350	240	214
VLRX 66-40	879	494	313	350	240	214
VLRX 66-50/2	969	613	354	400	278	237
VLRX 66-50/1	969	613	354	400	278	237
VLRX 66-50	969	613	354	400	278	245
VLRX 66-60/2	1059	613	354	400	278	245
VLRX 66-60/1	1059	613	354	400	278	255
VLRX 66-60	1059	613	354	400	278	255
VLRX 66-70/2	1149	613	354	400	278	261
VLRX 66-70/1	1149	613	354	400	278	261
VLRX 66-70	1149	710	411	450	298	341
VLRX 66-80/2	1239	710	411	450	298	346
VLRX 66-80/1	1239	710	411	450	298	346
VLRX 66-80	1239	710	411	450	298	346



# NOCCHI VLRX 92

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

### HYDRAULIC PERFORMANCE



Head and NPSH valid for water with  $\rho=1,0 \text{ kg/dm}^3$  at  $20^\circ \text{ C}$  of condensity

VLRX 92	2900 rpm	50 Hz	ISO 9906 - Annex A
---------	----------	-------	--------------------

MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

# NOCCHI VLRX 92

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS IN AISI 316 STAINLESS STEEL

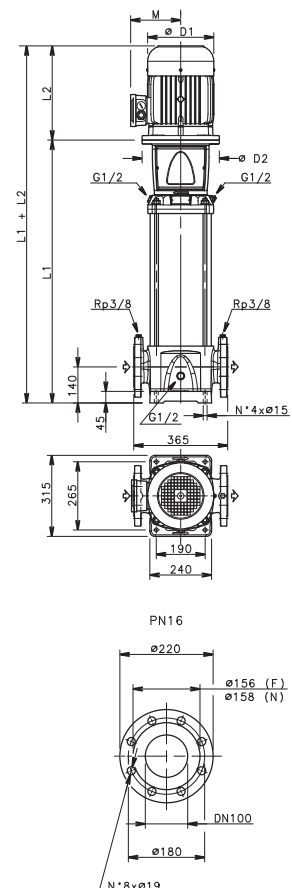
### PUMP PERFORMANCE

MODEL	Motor Power		Voltage	In (A)	Q	L/1'	750	900	1000	1200	1300	1417	1600	1800	2000
	HP	kW				m <sup>3</sup> /h	45	54	60	72	78	85	96	108	120
VLRX 92-10/1	7,5	5,5	3-400 ÷ 690 V	10,9	m.c.a. / m.c.w.	22	22	21	19	19	17	15	12	8	
VLRX 92-10	10	7,5	3-400 ÷ 690 V	14,7		29	27	26	24	23	22	20	18	14	
VLRX 92-20/2	15	11	3-400 ÷ 690 V	21		45	44	43	40	38	36	31	25	17	
VLRX 92-20	20	15	3-400 ÷ 690 V	29		58	55	53	50	48	45	41	36	30	
VLRX 92-30/2	25	18,5	3-400 ÷ 690 V	35		74	72	70	65	62	59	52	44	33	
VLRX 92-30	30	22	3-400 ÷ 690 V	42		88	84	81	76	73	69	63	56	46	
VLRX 92-40/2	40	30	3-400 ÷ 690 V	55		104	100	97	90	87	82	74	63	49	
VLRX 92-40	40	30	3-400 ÷ 690 V	55		117	112	108	101	97	92	85	75	63	
VLRX 92-50/2	50	37	3-400 ÷ 690 V	65		122	128	124	116	111	105	95	81	65	
VLRX 92-50	50	37	3-400 ÷ 690 V	65		146	140	135	126	121	115	106	94	78	
VLRX 92-60/2	60	45	3-400 ÷ 690 V	80		163	156	152	141	135	129	117	101	81	
VLRX 92-60	60	45	3-400 ÷ 690 V	80		176	168	163	151	146	139	127	113	94	
VLRX 92-70/2	60	45	3-400 ÷ 690 V	80		192	184	179	167	160	152	138	120	97	

Pump with DN100 PN16 from VLRX 92-10/2 to 92-40 PN25 from VLRX 92-50/2 to 92-70/2 round flanges. Counterflanges on request.

### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions in mm.					Net Weight (Kg)
	L <sub>1</sub>	L <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	M	
VLRX 92-10/1	574	375	214	300	168	109
VLRX 92-10	574	367	256	300	191	127
VLRX 92-20/2	699	428	256	350	191	150
VLRX 92-20	699	494	313	350	240	182
VLRX 92-30/2	789	494	313	350	240	197
VLRX 92-30	789	494	313	350	240	208
VLRX 92-40/2	879	613	354	400	278	232
VLRX 92-40	879	613	354	400	278	232
VLRX 92-50/2	969	613	354	400	278	250
VLRX 92-50	969	613	354	400	278	250
VLRX 92-60/2	1059	710	411	450	298	335
VLRX 92-60	1059	710	411	450	298	335
VLRX 92-70/2	1149	710	411	450	298	340



# NOCCHI VLR/VLRI/VLRX ACCESSORIES

## CIRCULAR FLANGES

CODE	DESCRIPTION	Material	Ext D	inter. S	N° Holes	D holes F	hole B		PN	STANDARD		
							Filett.	a sald.				
D3086KKK		STEEL	140	100	4	18	1 1/4	-	16	UNI EN 1092-1		
B7098KKK			150	110	4	18	-	DN40	16	UNI EN 1092-1		
B7097KKK			150	110	4	18	1 1/2	-	16	UNI EN 1092-1		
ZB901890			165	125	4	18	-	DN50	16	UNI EN 1092-1		
B7050KKK			165	125	4	18	2"	-	16	UNI EN 1092-1		
B7051KKK			165	125	4	18	2 1/2	-	16	N/A		
ZB901920			220	180	8	18	-	DN100	16	UNI EN 1092-1		
B7698KKK			185	145	8	18	-	DN65	25	UNI EN 1092-1		
ZB902350			235	190	8	22	-	DN100	25	UNI EN 1092-1		
ZA008460			Kit of two circular flanges including bolts and gaskets	STAINLESS STEEL AISI 316	140	99.2	4	20	1 1/4	DN32	16	N/A
ZB902120					150	110	4	20	1 1/2	DN40	16	N/A
ZB902130					165	126	4	20	2"	DN50	16	N/A

## OVAL FLANGES

CODE	DESCRIPTION	Material	est. D	est. A	inter S	Ø Holes F	hole B threaded
ZC001270		CAST IRON	95	68	65	11	1"
ZC001290		CAST IRON	95	68	65	11	1 1/4
ZC001280		CAST IRON	128	75	100	14	1 1/2
ZA008560	Kit of two oval flanges including bolts 1 1/4 and gaskets	STAINLESS STEEL embossed AISI 316	95	68	65	11	1 1/4

## VICTAULIC JOINTS

CODE	DESCRIPTION	Material	Dimension			CONNECTION
			X	Y	Z	
ZA009020		CAST IRON	68	117	45	1 1/4 42.2
ZA009030			87	133	48	2" 60.3

# NOCCHI VLR/VLRI/VLRX ACCESSORIES

## CIRCULAR FLANGES

Port size	1¼"	1½"	DN40	2"	2½"	DN 50	DN 65	DN 100	DN 100	DN 32	DN 40	DN 50	1"	1¼"	1½"	1¼"
Notes	PN 16	PN 16	PN 16	PN 16	-	PN 25	PN 25	PN 16	PN 25	PN 16	PN 16	PN 16	CAST IRON	CAST IRON	CAST IRON	CAST IRON
CODE →	D3086KKK	B7097KKK	B7098KKK	B7050KKK	B7051KKK	ZB901890	B7698KKK	ZB901920	ZB902350	ZA008460	ZB902120	ZB902130	* ZC001270	* ZC001290	* ZC001280	ZA008560
TYPE ↓																
VLR 2B FLANGE A													●			
VLR 2B FLANGE F	○															
VLR 4 FLANGE A														●		
VLR 4 FLANGE F	○															
VLR 8 FLANGE A															●	
VLR 8 FLANGE F		○	○													
VLR 16 FLANGE F				○	○	○										
VLR 32 FLANGE F							○									
VLR 66 FLANGE F → 66-50								○								
VLR 66 FLANGE F 66-60 →									○							
VLR 92 FLANGE F → 92-40										○						
VLR 92 FLANGE F 92-50 →																

\* These codes refer to a single flange without screws or gaskets

● Standard component ○ Optional component

# NOCCHI MULTINOX-VE

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

HIGH HYDRAULIC EFFICIENCY, STRONG AND RESISTANT



The Multinox-VE vertical multistage centrifugal pumps are especially suitable for the manufacture of pumping assemblies, above all in cases where a high level of efficiency and silence is required with reduced overall floor dimensions.

### USAGE LIMITATIONS

- Type of liquid: clean water with no suspended solids or abrasive material
- Maximum liquid temperature 50°C
- Maximum recommended suction height 6 m with foot valve
- Maximum operating pressure: 9 bar
- 12 bar (versione MULTINOX-VE 200/110)
- 20 bar (versione MULTINOX-VE 200/140)

### APPLICATIONS

- Pumping and distribution of water in domestic systems used on a continuous or intermittent basis
- Booster systems
- Washing systems, garden irrigation, fountains.
- Firefighting systems

### MOTOR

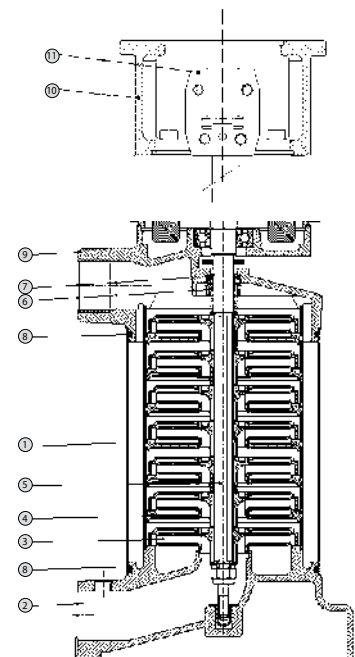
- Enclosed, externally ventilated
- Level of protection IP 44.
- IP55 MULTINOX-VE 200/110.
- IP55 MULTINOX-VE 200/140.
- Class F insulation.
- Single phase power supply with capacitor permanently activated and thermal protection built into the motor winding.
- Three phase power supply with external protection provided by the user.
- Speed of rotation 2850 rpm.
- Suitable for continuous use.



MULTINOX 200/110 T  
MULTINOX 200/140 T

### DESIGN FEATURES

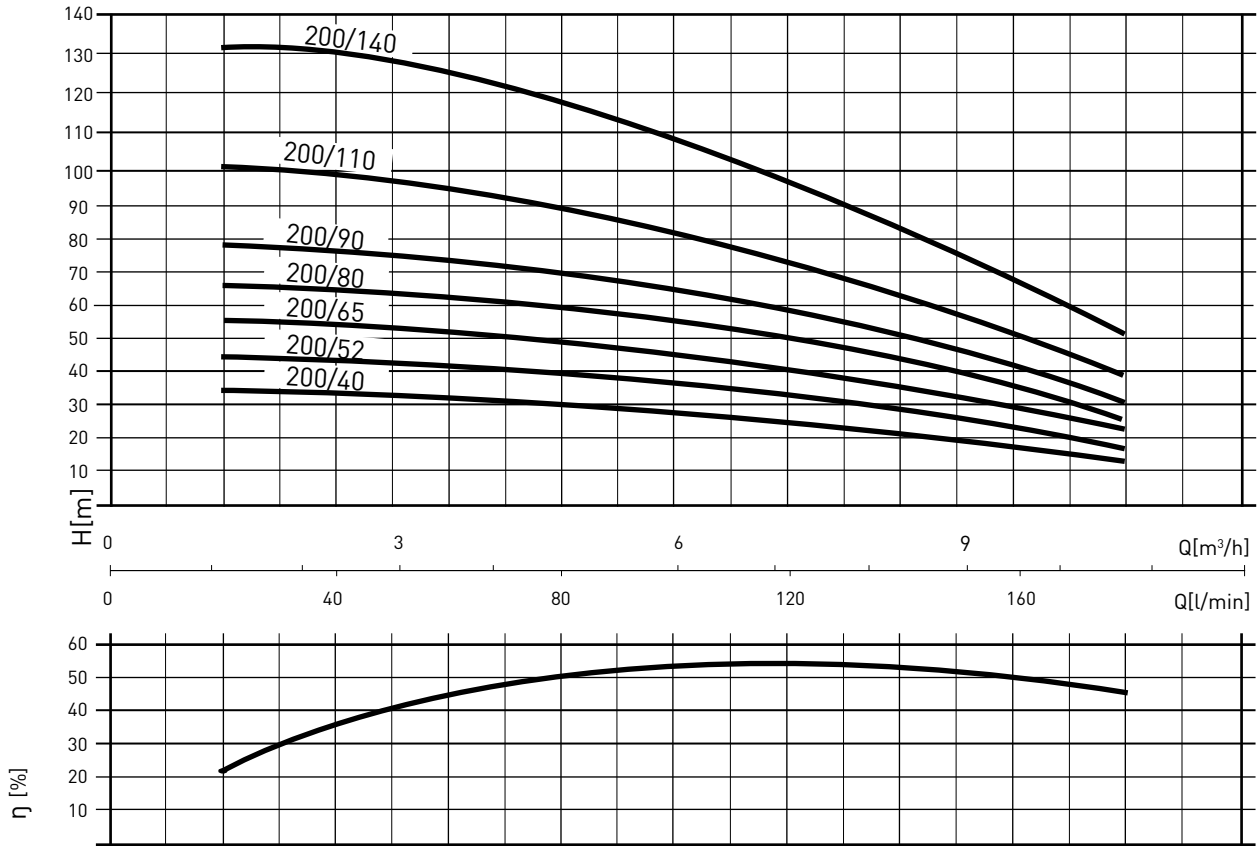
Component	Material
1 Outer liner (pump body)	X5 CrNi 1810 ( AISI 304 ) Stainless steel
2 Suction flange	EN GJL 200 ( ex G20 ) Cast iron
3 Impeller	Technopolymer with AISI 304 stainless steel shim ring
4 Diffuser	Technopolymer
5 Shaft (hydraulic end)	X5 CrNi 1810 ( AISI 304 ) Stainless steel
6 Mechanical seal	Graphite
7 Counterface	Ceramic
8 O'ring	NBR 70 shore
9 Discharge flange Motor bracket	EN GJL 200 ( ex G20 ) Cast iron
10 Adapter	EN GJL 200 ( ex G20 ) Grey cast iron on model 200/110-200/140
11 Motor joint	EN GJS 400 ( ex GS400 ) Nodular cast iron on model 200/110-200/140



# NOCCHI MULTINOX-VE

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

### HYDRAULIC PERFORMANCE



MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)



# NOCCHI MULTINOX-VE

## VERTICAL MULTISTAGE CENTRIFUGAL PUMPS

TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	In (A)	µF	Q	L/1'	20	60	100	140	180
	HP	kW	HP	kW					m³/h	1,2	3,6	6	8,4	10,8
MULTINOX VE 200/40 M MULTINOX VE 200/40 T	1,35	1	1,9 1,7	1,4 1,3	1 - 220÷240 V 3 - 230÷400 V	6,3 4-2,3	20	m.c.a. / m.c.w.	33,7	32,1	27,6	21,5	13,1	
MULTINOX VE 200/52 M MULTINOX VE 200/52 T	1,6	1,2	2,4 2,3	1,8 1,7	1 - 220÷240 V 3 - 230÷400 V	8,5 5,7-3,3	25		44,9	42,8	36,8	28,6	17,5	
MULTINOX VE 200/65 M MULTINOX VE 200/65 T	2	1,5	3 2,8	2,2 2,1	1 - 220÷240 V 3 - 230÷400 V	9,5 7,3-4,2	35		56,1	53,4	46	35,8	21,8	
MULTINOX VE 200/80 T	2,3	1,7	3,2	2,4	3 - 230÷400 V	8,7-5			67,3	64,1	55,2	42,9	26,2	
MULTINOX VE 200/90 T	2,5	1,9	3,8	2,8	3 - 230÷400 V	9,5-5,5			78,6	74,8	64,4	50,1	30,6	
MULTINOX VE 200/110 T	4	3	4,4	3,2	3 - 230÷400 V	10,2-5,9			101	96,2	82,8	64,4	39,3	
MULTINOX VE 200/140	5,5	4	5,4	4,8	3 - 230÷400 V	13,5-7,8			133,7	126,3	108,5	84	51,7	

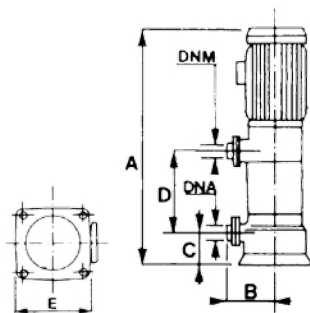


TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.							Weight
	A	B	C	D	E	DNA	DNM	Kg)
MULTINOX-VE 200/40	438	115	37	143	204	1" 1/4	1" 1/4	19
MULTINOX-VE 200/52	466	115	37	174	204	1" 1/4	1" 1/4	21
MULTINOX-VE 200/65	504	115	37	203	204	1" 1/4	1" 1/4	23
MULTINOX-VE 200/80	525	115	37	230	204	1" 1/4	1" 1/4	25
MULTINOX-VE 200/90	555	115	37	257	204	1" 1/4	1" 1/4	27
MULTINOX-VE 200/110	760	115	37	320	204	1" 1/4	1" 1/4	36
MULTINOX-VE 200/140	875	115	37	400	204	1" 1/4	1" 1/4	39

## NOCCHI SSCX

### CLOSE-COUPLED, SINGLE-IMPELLER CENTRIFUGAL PUMP FEATURING AXIAL SUCTION AND RADIAL DISCHARGE

IMPELLER AND DIFFUSER IN AISI 304 STAINLESS STEEL, HIGH RELIABILITY. HIGH HYDRAULIC EFFICIENCY

Single impeller centrifugal pumps manufactured from stainless steel AISI 304 with 2 poles encased self-ventilated internally cooled asynchronous motor. Recommended for pumping clear water and liquids that are chemically non aggressive in domestic, agricultural and industrial sector.

#### APPLICATIONS

- Booster sets
- Irrigation
- Handling of non aggressive water and liquids
- Gardening

#### VERSIONS

- Standard: mechanical seal in graphite/ ceramic and o-rings in NBR
- Special: mechanical seal in silicon carbide and o-rings in Viton

#### USAGE LIMITATIONS

- Type of liquid: chemically non aggressive clean
- water and liquids with no suspended solids
- - Max liquid temperature: 90°C
- - Max. operating pressure: 8 bar (PN8)

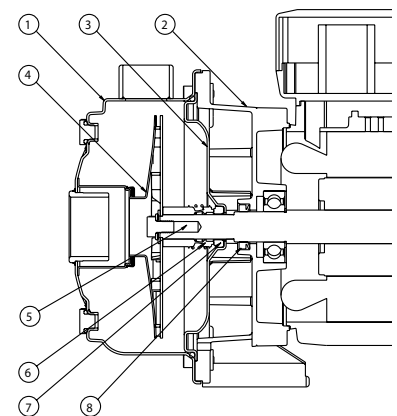
#### MOTOR

- Enclosed, externally ventilated
- IP55 protection level
- Class F insulation
- Single phase power supply with capacitor permanently activated and thermal protection built into the motor winding
- Three phase power supply with external protection provided by the user
- Rotation speed 2850rpm
- Suitable for continuous use



#### DESIGN FEATURES

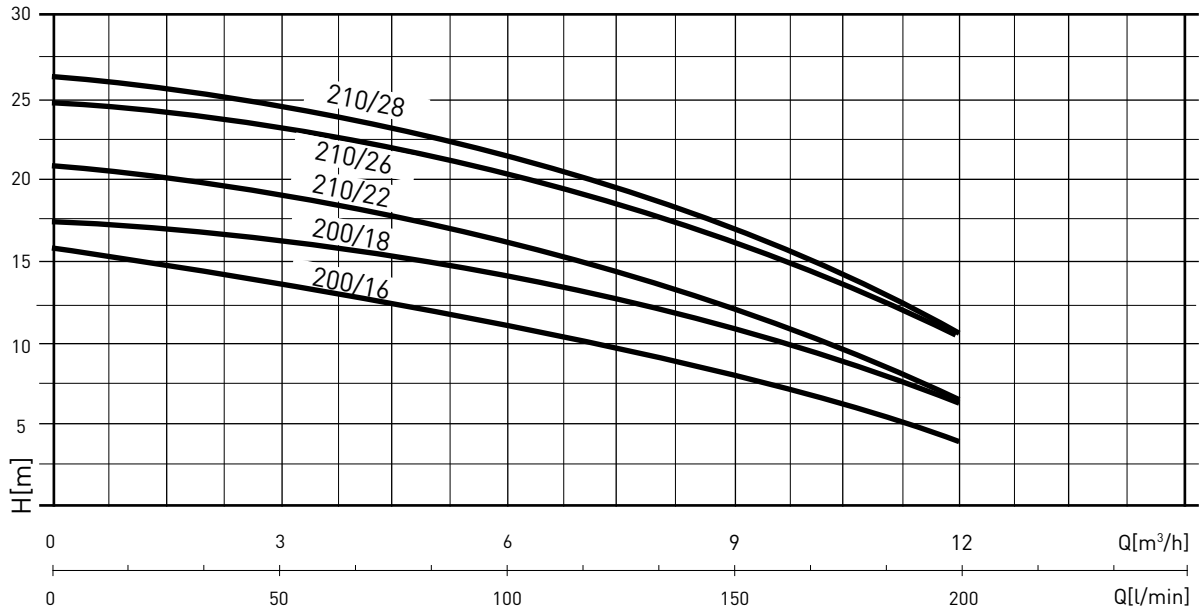
Component	Material
1 Pump body	Stainless steel X5 CrNi 18-10 EN1.4301 (AISI 304)
2 Motor bracket	Aluminum AISI 12 UNI 5076
3 Seal housing	Stainless steel X5 CrNi 18-10 EN1.4301 (AISI 304)
4 Impeller	Stainless steel X5 CrNi 18-10 EN1.4301 (AISI 304)
5 Motor shaft (hydraulic end)	Stainless steel X5 CrNi 18-10 EN1.4301 (AISI 304)
6 Rotating assembly (mechanical seal)	Graphite or silicon carbide
7 Fixed assembly mechanical seal	Ceramic or silicon carbide
8 O-rings	NBR 70Shore or Viton



# NOCCHI SSCX

CLOSE-COUPLED, SINGLE-IMPELLER CENTRIFUGAL PUMP FEATURING AXIAL SUCTION AND RADIAL DISCHARGE

## HYDRAULIC PERFORMANCE

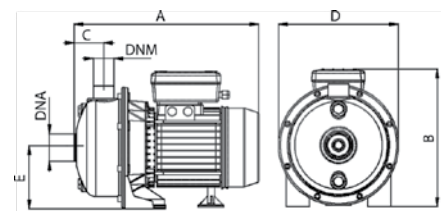


## TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	I <sub>n</sub> (A)	μF	Q	L/1'	Q [m³/h]							
	HP	kW	HP	kW						0	20	40	80	120	160	200	
SSCX 200/16M SSCX 200/16T	0,75	0,55	1	0,75	1 - 230 V 3 - 230 ÷ 400 V	3,5 3,1-1,8	12,5	m.c.a. / m.c.w.	0	0	1,2	2,4	4,8	7,2	9,6	12	
SSCX 200/18M SSCX 200/18T	1	0,75	1,2	0,9	1 - 230 V 3 - 230 ÷ 400 V	4 3,1-1,8	16		16	14,5	14	12,5	9,5	6,5	4		
SSCX 210/22M SSCX 210/22T	1,15 1,1	0,85 0,8	1,5 1,4	1,1 1,05	1 - 230 V 3 - 230 ÷ 400 V	4,9 3,8-2,2	25		18	17	16	15	13	10,5	6		
SSCX 210/26M SSCX 210/26T	1,35	1	1,9	1,4	1 - 230 V 3 - 230 ÷ 400 V	6,7 5-2,9	25		21,5	20	19	17	15	11	6		
SSCX 210/28M SSCX 210/28T	1,5 1,4	1,1 1,05	2,1 2	1,55 1,5	1 - 230 V 3 - 230 ÷ 400 V	7,3 5,6-3,2	25		25,5	24	23	21,5	19	15,5	10		

## TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.							Weight (Kg)
	A	B	C	D	E	DNA	DNM	
SSCX 200/16	320	240	50,5	210	105	1" 1/4	1"	8,7
SSCX 200/18	320	240	50,5	210	105	1" 1/4	1"	9,5
SSCX 210/22	350	250	50,5	210	105	1" 1/4	1"	12,1
SSCX 210/26	350	250	50,5	210	105	1" 1/4	1"	13,6
SSCX 210/28	350	250	50,5	210	105	1" 1/4	1"	13,8



# NOCCHI DHR

## CENTRIFUGAL MULTICELLULAR ELECTRIC PUMPS

LOW ENERGY CONSUMPTION, EXTREMELY QUIET, IMPELLERS AND DIFFUSERS ARE MADE IN STAINLESS STEEL AISI 304, THREADED PORTS, CAN ALSO BE FITTED WITH OVAL CONNECTION (RANGE DHR 9)

The pumps in the DHR range are horizontal centrifugal pumps and are not self-priming. All rotating parts in contact with the pumped liquid are made in stainless steel AISI 304.

### USAGE LIMITATIONS

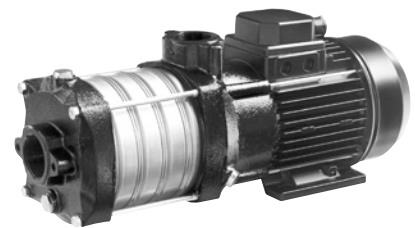
- Type of liquid: clean water free of suspended solids or abrasive material.
- Maximum liquid temperature 90°C
- Maximum ambient temperature 50°C
- Maximum recommended suction height: 6 m with foot valve (with max liquid temperature at 50° C)
- Maximum operating temperature:
- 10 bar (with liquid temp. 50°C)
- 6 bar (with liquid temp. 90°C)

### APPLICATIONS

- Pumping and distribution of water in domestic appliances used on a continuous or intermittent basis
- Booster system
- For washing and irrigation system gardens and fountains

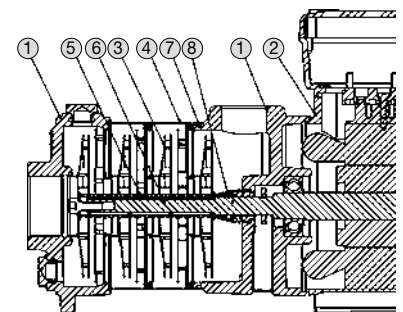
### MOTOR

- Enclosed, external ventilation.
- Level of protection IP 54
- Class F insulation
- Single phase power supply with condenser permanently switched on and thermal protection built into the motor winding
- Three phase power supply with external protection provided by the user
- Rotation speed 2850 rpm
- Suitable for continuous use.
- Maximum ambient temperature 50°C



### MATERIALS

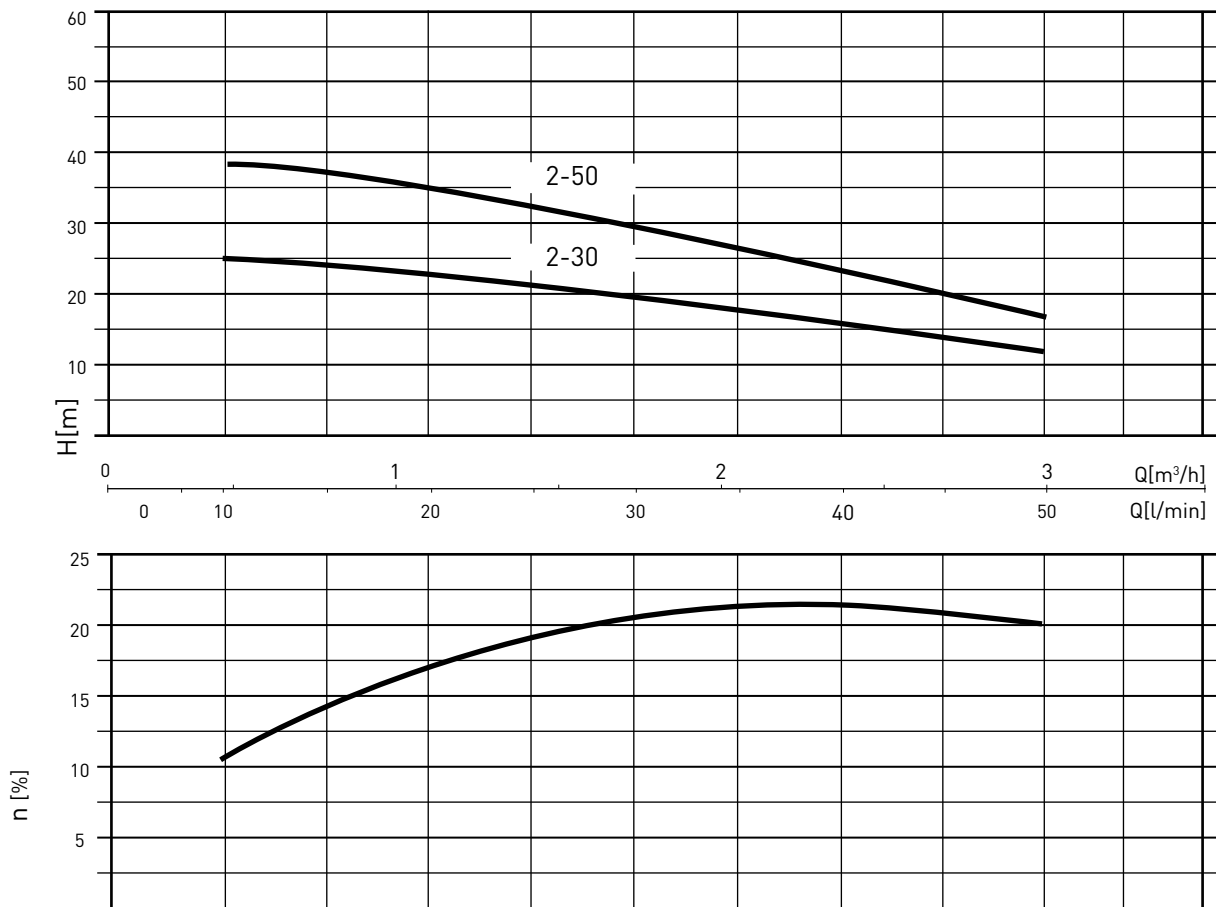
Component	Material
1 Motor casing	CAST IRON GJL-200 (ASTM Class 35)
2 Suction flange	Die-cast aluminium
3 Impellers	STAINLESS STEEL X5CrNi18-10 (AISI 304)
4 Diffusers	STAINLESS STEEL X5CrNi18-10 (AISI 304)
5 Sleeve	STAINLESS STEEL X5CrNi18-10 (AISI 304)
6 Shaft	STAINLESS STEEL X5CrNi18-10 (AISI 304)
7 Gaskets	NBR
8 Mechanical seal	Ceramic / Graphite / NBR



# NOCCHI DHR 2

## CENTRIFUGAL MULTICELLULAR ELECTRIC PUMPS

### HYDRAULIC PERFORMANCE



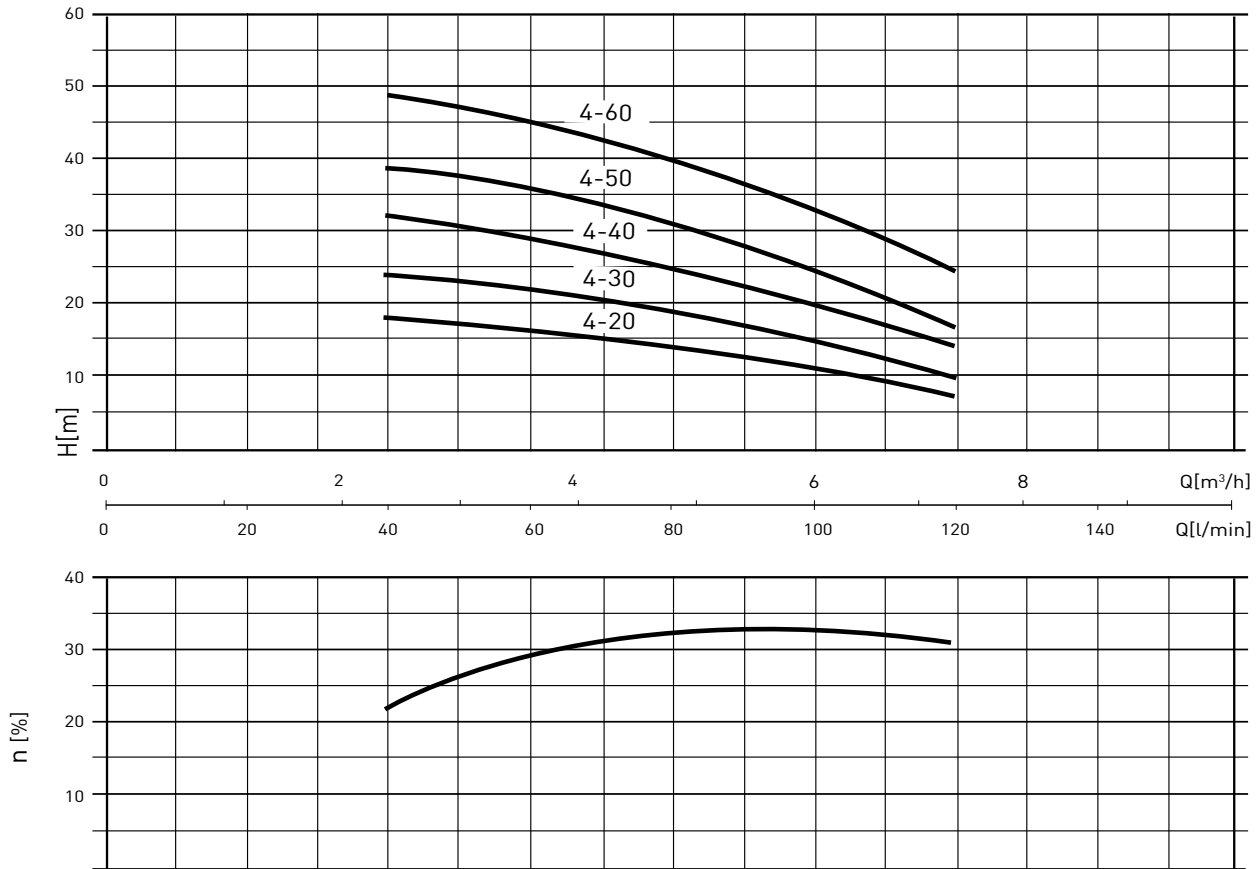
### PUMP PERFORMANCE

MODEL	Motor Power		Absorbed Power		Voltage	In (A)	$\mu$ F.	Q	L/1'	10	20	30	40	50
	HP	kW	HP	kW						m³/h	0,6	1,2	1,8	2,4
DHR 2-30 M	0,40	0,30	0,7	0,52	1 - 230 V	2,6	12,5	m.c.a. / m.c.w.		25	23	19	16	12
DHR 2-30 T	0,40	0,30	0,67	0,50	3 ~ 230/400 V	1,9-1,1	-			25	23	19	16	12
DHR 2-50 M	0,67	0,50	1	0,75	1 - 230 V	3,5	12,5			39	35	30	24	17
DHR 2-50 T	0,67	0,50	1	0,75	3 ~ 230/400 V	2,5-1,8	-			39	35	30	24	17

# NOCCHI DHR 4

## CENTRIFUGAL MULTICELLULAR ELECTRIC PUMPS

### HYDRAULIC PERFORMANCE

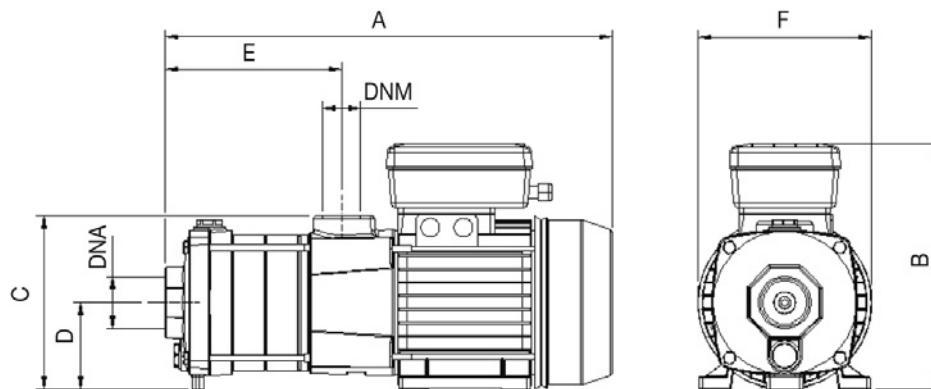


### PUMP PERFORMANCE

MODEL	Motor Power		Absorbed Power		Voltage	In (A)	$\mu$ F.	Q	L/1'	40	50	60	80	100	120
	HP	kW	HP	kW						m³/h	2,4	3	3,6	4,8	6
DHR 4-20 M	0,50	0,37	0,75	0,55	1 - 230 V	2,7	12,5	m.c.a. / m.c.w.	17	16	15	13	11	7	
DHR 4-20 T	0,50	0,37	0,78	0,53	3 - 230/400 V	2,1-1,2	-		17	16	15	13	11	7	
DHR 4-30 M	0,67	0,50	1,10	0,80	1 - 230 V	3,7	12,5		24	23	21	18	14	10	
DHR 4-30 T	0,67	0,50	1	0,75	3 - 230/400 V	2,5-1,4	-		24	23	21	18	14	10	
DHR 4-40 M	0,94	0,70	1,34	1	1 - 230 V	4,5	16		33	31	29	26	21	15	
DHR 4-40 T	0,94	0,70	1,34	1	3 - 230/400 V	3,2-1,9	-		33	31	29	26	21	15	
DHR 4-50 M	1,20	0,90	1,68	1,25	1 - 230 V	5,8	20		41	39	37	33	27	19	
DHR 4-50 T	1,20	0,90	1,55	1,15	3 - 230/400 V	3,4-2	-		41	39	37	33	27	19	
DHR 4-60 M	1,6	1,2	2	1,5	1 - 230 V	7	31,5		52	49	47	43	36	26	
DHR 4-60 T	1,6	1,2	2	1,5	3 - 230/400 V	5,4-3,1	-		52	49	47	43	36	26	

# NOCCHI DHR 2/4

## CENTRIFUGAL MULTICELLULAR ELECTRIC PUMPS



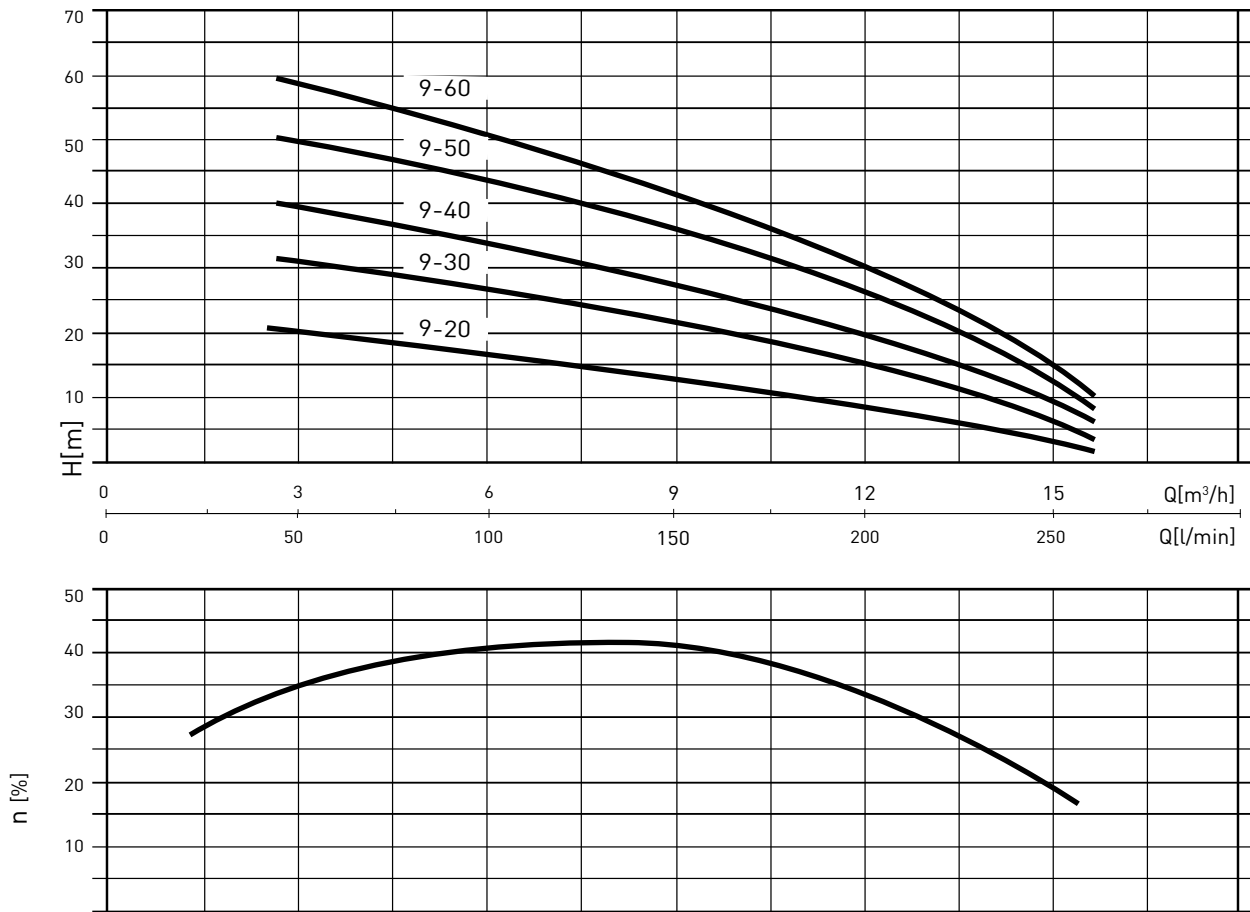
**TABLE OF SIZES AND WEIGHTS**

MODEL	Dimensions in mm.								Net Weight (Kg)
	A	B	C	D	E	F	DNA	DNM	
DHR 2-30	326	205/190	137,5	71	105	142	1"	1"	10,2
DHR 2-50	362	205/190	137,5	71	141	142	1"	1"	11,5
DHR 2-20	339	205/190	137,5	71	119	142	1" 1/4	1"	10,5
DHR 4-30	339	205/190	137,5	71	119	142	1" 1/4	1"	10,7
DHR 4-40v	366	205/190	137,5	71	146	142	1" 1/4	1"	12
DHR 4-50	394	205/190	137,5	71	173	142	1" 1/4	1"	13,9
DHR 4-60	445	230/209	149	80	200	160	1" 1/4	1"	17

# NOCCHI DHR 9

## CENTRIFUGAL MULTICELLULAR ELECTRIC PUMPS

### HYDRAULIC PERFORMANCE



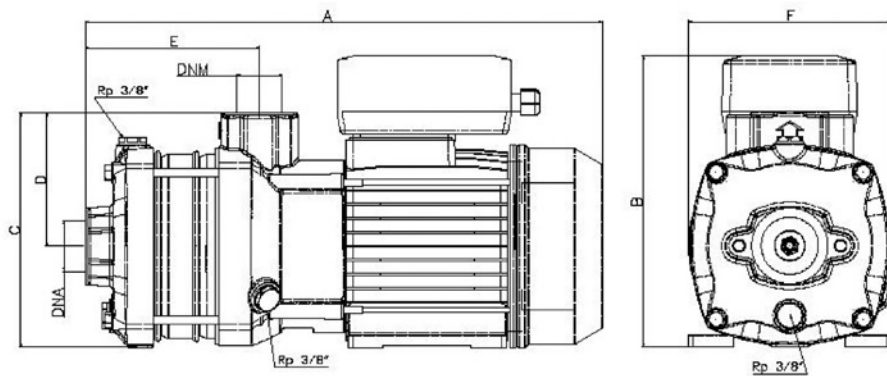
### PUMP PERFORMANCE

MODEL	Motor Power		Absorbed Power		Voltage	In (A)	$\mu F$	Q	m.c.a. / m.c.w.								
	HP	kW	HP	kW					L/1'	40	80	120	160	200	240	260	
									m³/h	2,4	4,8	7,2	9,6	12	14,4	15,6	
DHR 9-20 M	0,87	0,65	1,34	1	1 ~ 230 V	4,5	20	m.c.a. / m.c.w.	20	19	16	13	9	5	3		
DHR 9-20 T	0,87	0,65	1,21	0,9	3 ~ 230 / 400 V	3 - 1,7			20	19	16	13	9	5	3		
DHR 9-30 M	1,27	0,95	1,88	1,4	1 ~ 230 V	6	25		31	29	26	21	16	9	5		
DHR 9-30 T	1,27	0,95	1,81	1,35	3 ~ 230/400 V	4,4 - 2,5			31	29	26	21	16	9	5		
DHR 9-40 M	1,74	1,3	2,41	1,8	1 ~ 230 V	8	31,5		40	38	33	27	19	10	5		
DHR 9-40 T	1,74	1,3	2,15	1,6	3 ~ 230/400 V	5,3 - 3			40	38	33	27	19	10	5		
DHR 9-50 M	2,15	1,6	2,95	2,2	1 ~ 230 V	10	35		51	49	43	36	26	14	6		
DHR 9-50 T	2,15	1,6	2,68	2	3 ~ 230/400 V	6,1 - 3,5			51	49	43	36	26	14	6		
DHR 9-60 T	2,55	1,9	3,35	2,5	3 ~ 230/400 V	7,9 - 4,5			60	56	49	40	29	14	6		



# NOCCHI DHR 9

## CENTRIFUGAL MULTICELLULAR ELECTRIC PUMPS



**TABLE OF SIZES AND WEIGHTS**

MODEL	Dimensions in mm.								Net Weight (Kg)
	A	B	C	D	E	F	DNA	DNM	
DHR 9-20 M	378	196	185	105	107	160	1 1/2	1 1/4	17,5
DHR 9-20 T	378	227	185	105	107	160	1 1/2	1 1/4	18,8
DHR 9-30 M	378	196	185	105	107	160	1 1/2	1 1/4	18,7
DHR 9-30 T	378	227	185	105	107	160	1 1/2	1 1/4	19
DHR 9-40 M	408	196	185	105	137	160	1 1/2	1 1/4	20
DHR 9-40 T	408	227	185	105	137	160	1 1/2	1 1/4	22
DHR 9-50 M	438	196	185	105	168	160	1 1/2	1 1/4	22,5
DHR 9-50 T	438	227	185	105	168	160	1 1/2	1 1/4	23,5
DHR 9-60 T	468	196	185	105	198	160	1 1/2	1 1/4	24,1

# NOCCHI DHI

## CENTRIFUGAL MULTICELLULAR ELECTRIC PUMPS IN STAINLESS STEEL AISI 316

HYDRAULIC END STAINLESS STEEL AISI 316

Horizontal, multicellular centrifugal pumps in the DHI range offer the following advantages: High hydraulic pressure and flow rate performance. Minimum electrical energy consumption. Extremely quiet operation.

### USAGE LIMITATIONS

- Type of liquid: clean water without solid suspended bodies or abrasive material
- Maximum liquid temperature 90°C
- Maximum recommended suction height 6 m with foot valve
- (with max. liquid temp. at 50° C)
- Maximum operating temperature:
  - 10 bar (with liquid temp. 50°C)
  - 6 bar (with liquid temp. 90°C)

### APPLICATIONS

- Transfer of aggressive liquids
- Pumping and distribution of water in domestic appliances used on a continuous or intermittent basis
- Booster systems
- For washing and irrigation systems, gardens and fountains

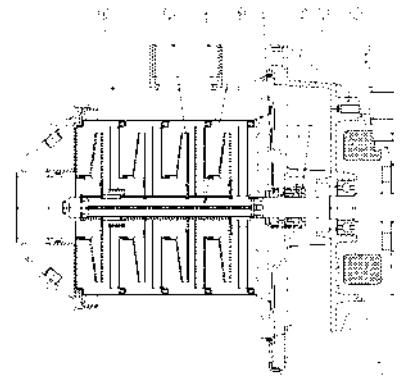
### MOTOR

- Asynchronous motor
- Enclosed, external ventilation
- Level of protection IP 44
- Class F insulation
- Single phase power supply with condenser permanently switched on and thermal protection built into the motor winding
- Three phase power supply with protection provided by the user
- Rotation speed 2850 rpm
- Suitable for continuous use



### MATERIALS

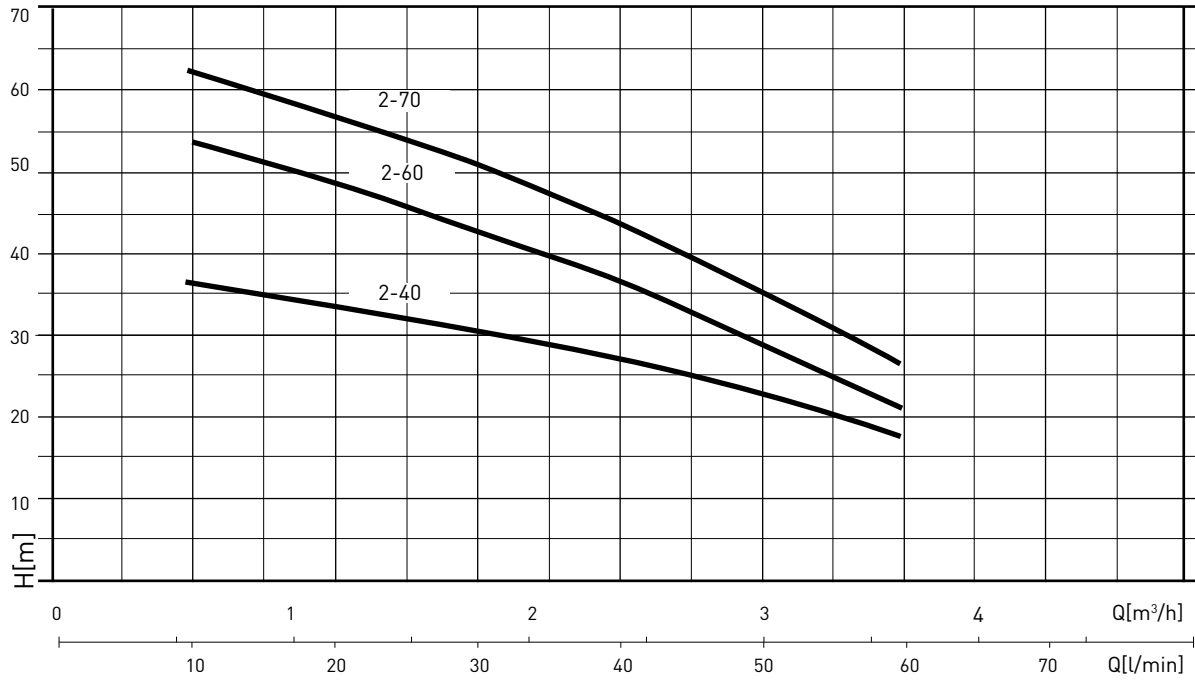
Component	Material
1 Pump casing	STAINLESS STEEL X CrNiMo 17-12-03 (AISI 316)
2 Motor casing	Die-cast aluminium
3 Impeller	STAINLESS STEEL X CrNiMo 17-12-03 (AISI 316)
4 Intermediate chamber	STAINLESS STEEL X CrNiMo 17-12-03 (AISI 316)
5 Motor shaft - hydraulics	STAINLESS STEEL X CrNiMo 17-12-03 (AISI 316)
6 Mechanical seal	Graphite
7 Counterface	Ceramic
8 Seal holder flange	STAINLESS STEEL X CrNiMo 17-12-03 (AISI 316)
Gaskets	EPDM



# NOCCHI DHI 2

## CENTRIFUGAL MULTICELLULAR ELECTRIC PUMPS IN STAINLESS STEEL AISI 316

### HYDRAULIC PERFORMANCE



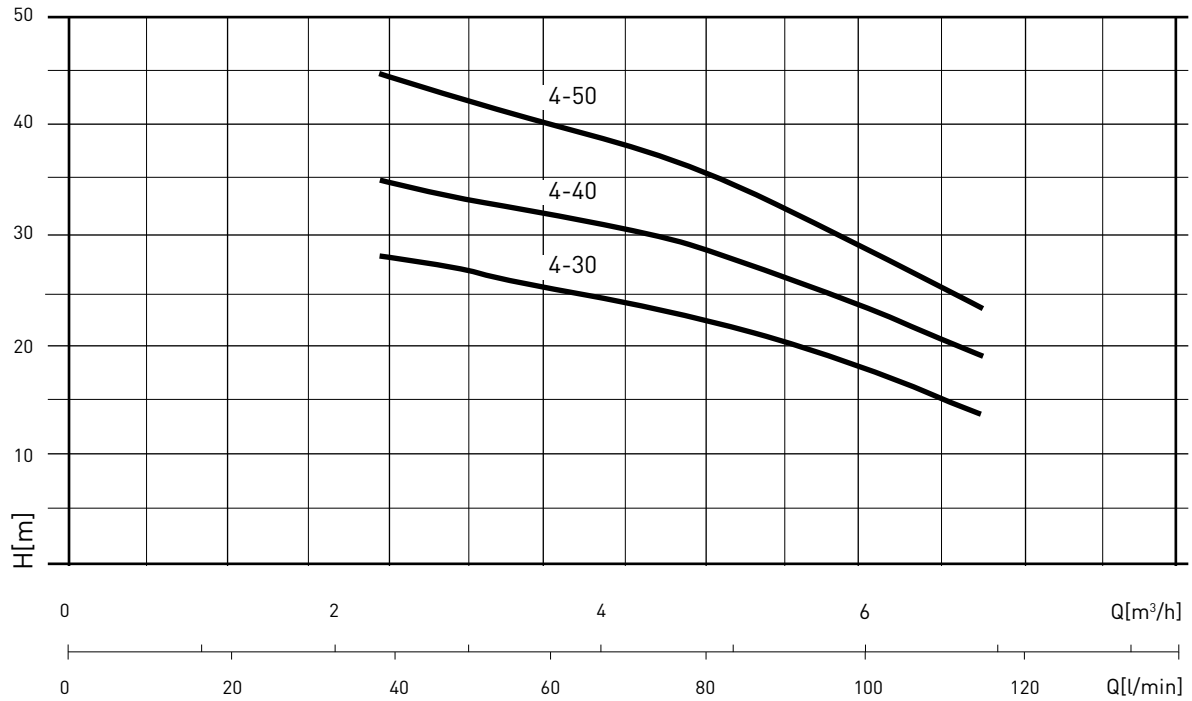
### PUMP PERFORMANCE

MODEL	Motor Power		Absorbed Power		Voltage	In (A)	μF.	Q	L/1'	10	20	30	40	50	60
	HP	kW	HP	kW					m³/h	0,6	1,2	1,8	2,4	3	3,6
DHI 2-40 M	0,5	0,4	0,9	0,7	1 - 230 V	3,2	12,5	m.c.a. / m.c.w.	36	34	31	27	22	17	
DHI 2-40 T	0,5	0,4	0,9	0,7	3 - 230/400 V	2,3 - 1,4	-		36	34	31	27	22	17	
DHI 2-60 M	0,8	0,6	1,2	0,9	1 - 230 V	4,1	16		53	49	43	37	30	21	
DHI 2-60 T	0,8	0,6	1,2	0,9	3 - 230/400 V	3 - 1,8	-		53	49	43	37	30	21	
DHI 2-70 M	1	0,78	1,5	1,1	1 - 230 V	5,2	20		63	58	52	44	36	26	
DHI 2-70 T	1	0,78	1,36	1	3 - 230/400 V	3 - 1,8	-		63	58	52	44	36	26	

# NOCCHI DHI 4

## CENTRIFUGAL MULTICELLULAR ELECTRIC PUMPS IN STAINLESS STEEL AISI 316

### HYDRAULIC PERFORMANCE

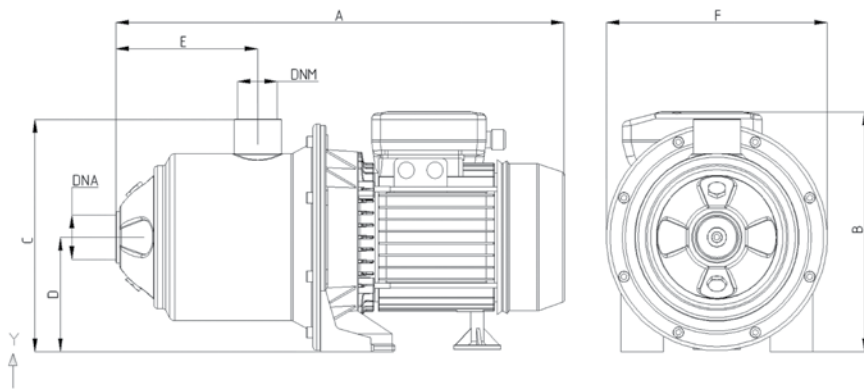


### PUMP PERFORMANCE

MODEL	Motor Power		Absorbed Power		Voltage	In (A)	$\mu$ F.	Q	L/1'	40	50	60	80	100	120
	HP	kW	HP	kW					m³/h	2,4	3	3,6	4,8	6	7,2
DHI 4-30 M	0,67	0,5	1,1	0,8	1 ~ 230 V	3,6	12,5	m.c.a. / m.c.w.	27	26	25	22	18	14	
DHI 4-30 T	0,67	0,5	1,1	0,8	3 ~ 230/400 V	2,9 - 1,7	-		27	26	25	22	18	14	
DHI 4-40 M	0,94	0,7	1,36	1	1 ~ 230 V	4,4	16		35	33	32	28	24	18	
DHI 4-40 T	0,94	0,7	1,36	1	3 ~ 230/400 V	3,3 - 2	-		35	33	32	28	24	18	
DHI 4-50 M	1,2	0,9	1,68	1,25	1 ~ 230 V	5,8	20		44	42	40	36	30	23	
DHI 4-50 T	1,2	0,9	1,6	1,2	3 ~ 230/400 V	3,3 - 2	-		44	42	40	36	30	23	

# NOCCHI DHI 2/4

## CENTRIFUGAL MULTICELLULAR ELECTRIC PUMPS IN STAINLESS STEEL AISI 316



**TABLE OF SIZES AND WEIGHTS**

MODEL	Dimensions in mm.								Net Weight (Kg)
	A	B	C	D	E	F	DNA	DNM	
DHI 2-40	368	220	213,5	105	80	208	1" 1/4	1" 1/4	11
DHI 2-60	396	220	213,5	105	108	208	1" 1/4	1" 1/4	11,7
DHI 2-70	422	220	213,5	105	134	208	1" 1/4	1" 1/4	14,1
DHI 4-30	368	220	213,5	105	80	208	1" 1/4	1" 1/4	11,3
DHI 4-40	396	220	213,5	105	108	208	1" 1/4	1" 1/4	12,1
DHI 4-50	422	220	213,5	105	134	208	1" 1/4	1" 1/4	14

# NOCCHI MCX

## MULTISTAGE CENTRIFUGAL PUMPS

HIGH HYDRAULIC PRESSURE AND FLOW RATE PERFORMANCE, MINIMUM ELECTRICAL ENERGY CONSUMPTION, EXTREMELY SILENT OPERATION

MCX series horizontal multistage centrifugal pumps.

### MOTOR

- Enclosed, externally ventilated
- Level of protection IP 44
- Class F insulation
- Single phase power supply with capacitor permanently activated and thermal protection built into the motor winding
- Three phase power supply with external protection provided by the user
- Speed of rotation 2850 rpm
- Suitable for continuous use

### APPLICATIONS

- Booster systems
- Firefighting systems
- Washing systems, irrigation

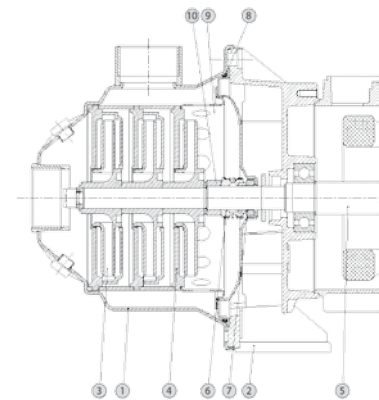
### USAGE LIMITATION

- Type of liquid: clean water with no suspended solids or abrasive
- material
- Maximum liquid temperature 50°C
- Maximum recommended suction height 6 m with foot valve
- Maximum operating pressure 7 bar



### DESIGN FEATURES

Component		Material
1	Pump body	X5 CrNi 1810 (AISI 304) Stainless steel
2	Motor bracket	Die-cast aluminium
3	Impeller	Technopolymer with X5 CrNi 1810 (AISI 304) stainless steel shim ring
4	Diffusors	Technopolymer
5	Motor shaft (hydraulic end)	X5 CrNi 1810 (AISI 304) Stainless steel
6	Mechanical seal	Graphite
7	Counterface	Ceramic
8	O-rings	NBR 70 Shore
9	Seal housing	GNF 2V Noryl (stainless steel on 200 Lt version)
10	O-rings	X10 CrNiS 1809 (AISI 303) Stainless steel



# NOCCHI MCX

## MULTISTAGE CENTRIFUGAL PUMPS

### HYDRAULIC PERFORMANCE

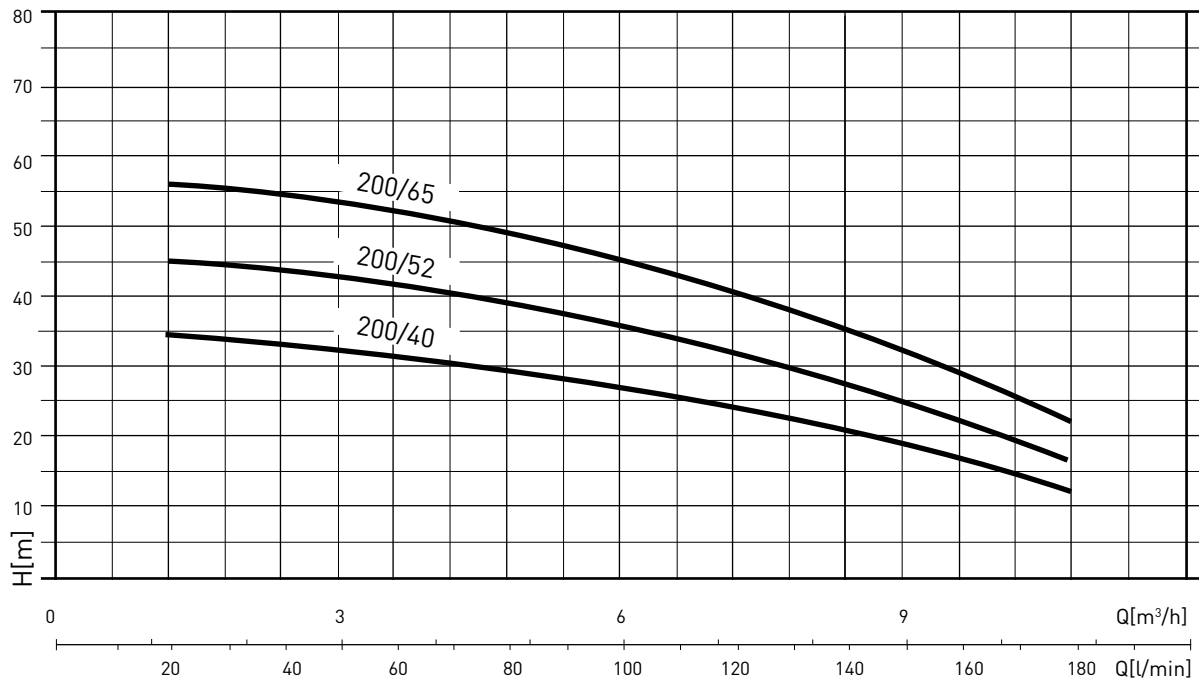


TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	In (A)	μF	Q	L/1'	20	60	100	140	180
	HP	kW	HP	kW						m³/h	1,2	3,6	6	8,4
MCX 200/40 M MCX 200/40 T	1,4	1	1,9 1,7	1,4 1,3	1 ~ 230 V 3 ~ 230 ÷ 400 V	6,3 4-2,3	20	m.c.a./m.c.w.	33,7	32,1	27,6	21,5	13,1	
MCX 200/52 M MCX 200/52 T	1,6	1,2	2,4 2,3	1,8 1,7	1 ~ 230 V 3 ~ 230 ÷ 400 V	8,5 5,7-3,3	25		44,9	42,8	36,8	28,6	17,5	
MCX 200/65 M MCX 200/65 T	2	1,5	3 2,8	2,2 2,1	1 ~ 230 V 3 ~ 230 ÷ 400 V	9,5 7,3-4,2	35		56,1	53,4	46	35,8	21,8	

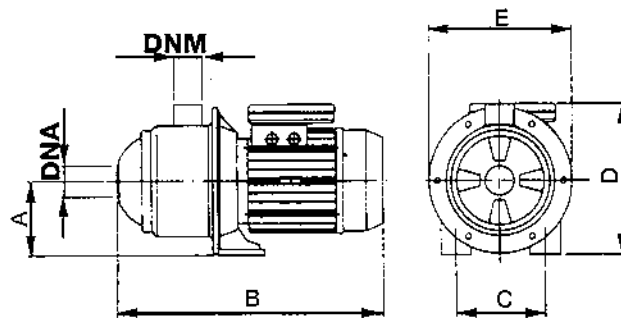


TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.							Weight (Kg)
	A	B	C	D	E	DNA	DNM	
MCX 200/40	105	400	141	235	205	1" 1/4	1" 1/4	14
MCX 200/52	105	430	141	235	205	1" 1/4	1" 1/4	16
MCX 200/65	105	460	141	235	205	1" 1/4	1" 1/4	18

# NOCCHI MULTINOX-XC MULTISTAGE CENTRIFUGAL PUMPS

HIGH HYDRAULIC PRESSURE AND FLOW RATE PERFORMANCE, MINIMUM ELECTRICAL ENERGY CONSUMPTION, EXTREMELY SILENT OPERATION

MULTINOX-XC series horizontal multistage centrifugal pumps.

## MOTOR

- Enclosed, externally ventilated
- Level of protection IP44
- Class F insulation
- Single phase power supply with capacitor permanently activated and thermal protection built into the motor winding
- Three phase power supply with external protection provided by the user
- Speed of rotation 2850rpm
- Suitable for continuous use

## APPLICATIONS

- Booster systems
- Firefighting systems
- Washing systems, irrigation

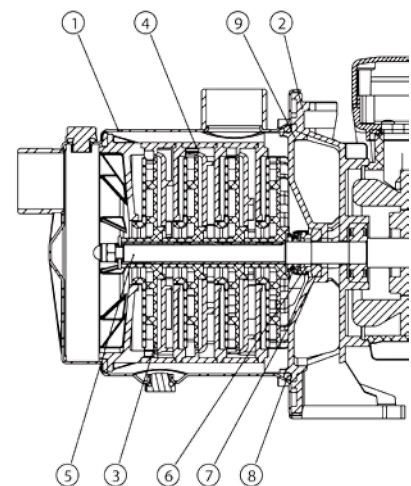
## USAGE LIMITATION

- Type of liquid: clean water with no suspended solids or abrasive material
- Maximum liquid temperature 50°C
- Maximum recommended suction height 6m with foot valve
- Maximum operating pressure 7bar



## DESIGN FEATURES

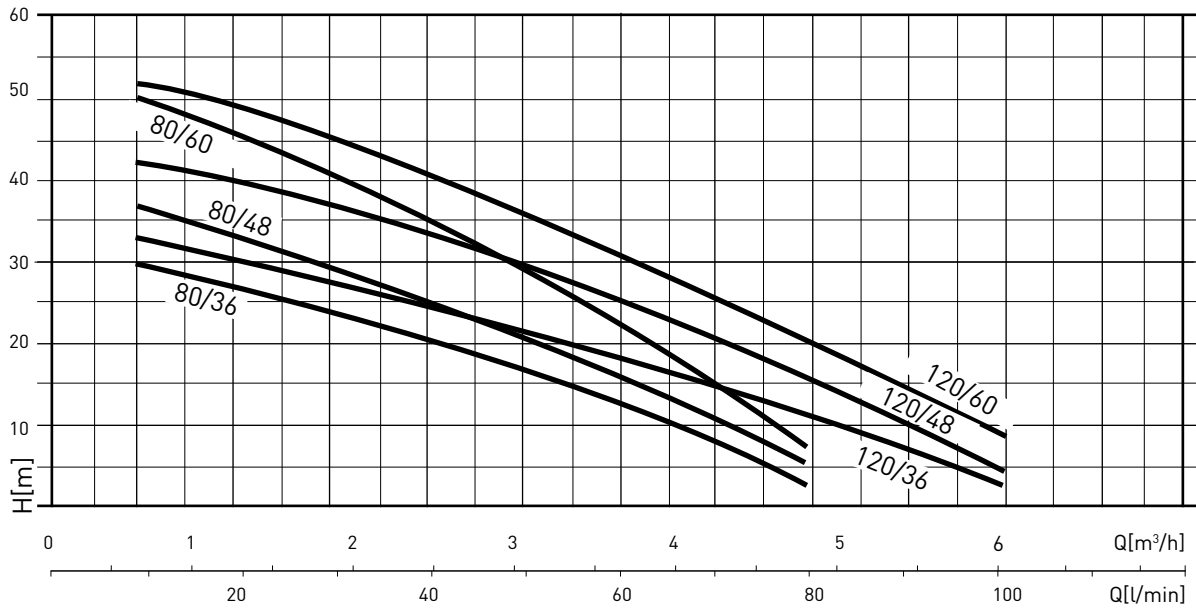
Component		Material
1	Pump casing	X5 CrNi 18-10 EN1.4301 ( AISI 304 ) Stainless steel
2	Motor bracket	Die-cast aluminum
3	Impeller	Technopolymer with X5 CrNi 18-10 EN1.4301 ( AISI 304 ) stainless steel shim ring
4	Diffusor	Technopolymer
5	Motor shaft (hydraulic end)	X5 CrNi 18-10 EN1.4301 ( AISI 304 ) Stainless steel
6	Mechanical seal	Graphite
7	Counterface	Ceramic
8	O-rings	NBR 70 shore
9	Seal holder plate	GNF 2V Noryl





# NOCCHI MULTINOX-XC MULTISTAGE CENTRIFUGAL PUMPS

## HYDRAULIC PERFORMANCE

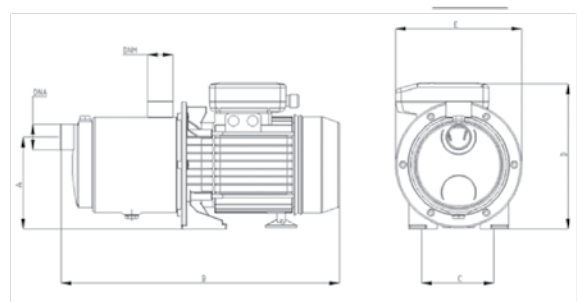


## TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	In (A)	μF	Q	L/1'	10	20	30	40	50	60	80	100	
	HP	kW	HP	kW						m³/h	0,6	1,2	1,8	2,4	3	3,6	4,8	6
MULTINOX-XC 80/36M MULTINOX-XC 80/36T	0,58	0,43	0,87	0,65	1 - 230 V 3 - 230 ÷ 400 V	2,9 23 - 1,3	12,5	m.c.a. / m.c.w.	30	27	24	21	17	13	3			
MULTINOX-XC 80/48M MULTINOX-XC 80/48T	0,75	0,55	1,1	0,8	1 - 230 V 3 - 230 ÷ 400 V	3,7 3 - 1,7	12,5		37	34	30	25	21	15	4			
MULTINOX-XC 80/60M MULTINOX-XC 80/60T	1,1	0,8	1,5	1,1	1 - 230 V 3 - 230 ÷ 400 V	4,5 3,2 - 1,8	20		50	46	42	36	30	22	7			
MULTINOX-XC 120/36M MULTINOX-XC 120/36T	0,75	0,55	1,1	0,8	1 - 230 V 3 - 230 ÷ 400 V	3,7 3,2 - 1,8	12,5		33	31	29	26	22	19	10	2		
MULTINOX-XC 120/48M MULTINOX-XC 120/48T	1,1	0,75	1,5	1,1	1 - 230 V 3 - 230 ÷ 400 V	4,5 3,3 - 2	16		42	39	37	34	30	25	15	4		
MULTINOX-XC 120/60M MULTINOX-XC 120/60T	1,2	0,9	1,8 1,67	1,35 1,25	1 - 230 V 3 - 230 ÷ 400 V	6 3,8 - 2,2	20		53	49	47	42	38	32	20	7		

## TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.							Weight (Kg)
	A	B	C	D	E	DNA	DNM	
MULTINOX-XC 80/36	129	348	99	195	176	1"	1"	7,5
MULTINOX-XC 80/48	129	348	99	195	176	1"	1"	8
MULTINOX-XC 80/60	129	392	99	205	176	1"	1"	11
MULTINOX-XC 120/36	129	370	99	205	176	1"	1"	9
MULTINOX-XC 120/48	129	370	99	205	176	1"	1"	10
MULTINOX-XC 120/60	129	392	99	205	176	1"	1"	11



# NOCCHI MULTINOX MULTISTAGE CENTRIFUGAL PUMP

AINI 304 STAINLESS STEEL OUTER SHELL, CAST IRON MOTOR BRACKET AND SUCTION FLANGE, SUITABLE FOR CONTINUOUS USE, DESIGNED FOR MINIMAL ELECTRICAL CONSUMPTION AND QUIET OPERATION

The horizontal multistage centrifugal MULTINOX pumps are suitable for developing a considerable pressure and flow rate with extremely silent operation and with a minimum electrical energy consumption.

## MOTOR

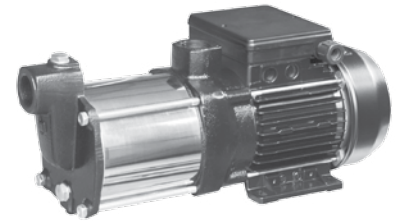
- Enclosed, externally ventilated.
- Level of protection IP 44.
- Class F insulation.
- Single phase power supply with capacitor permanently activated and thermal protection built into the motor winding.
- Three phase power supply with external protection provided by the user.
- Speed of rotation 2850 rpm.
- Suitable for continuous use.

## APPLICATIONS

- Pumping and distribution of water in domestic systems.
- Booster systems.
- Firefighting systems .
- Washing systems.
- Irrigation

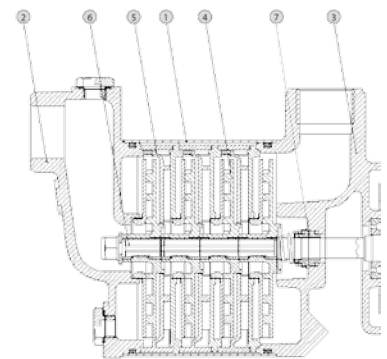
## USAGE LIMITATIONS

- Type of liquid: clean water with no suspended solids or abrasive material.
- Maximum liquid temperature 50 °C.
- Maximum recommended suction height 6m with foot valve.
- Maximum operating pressure 9 bar.



## DESIGN FEATURES

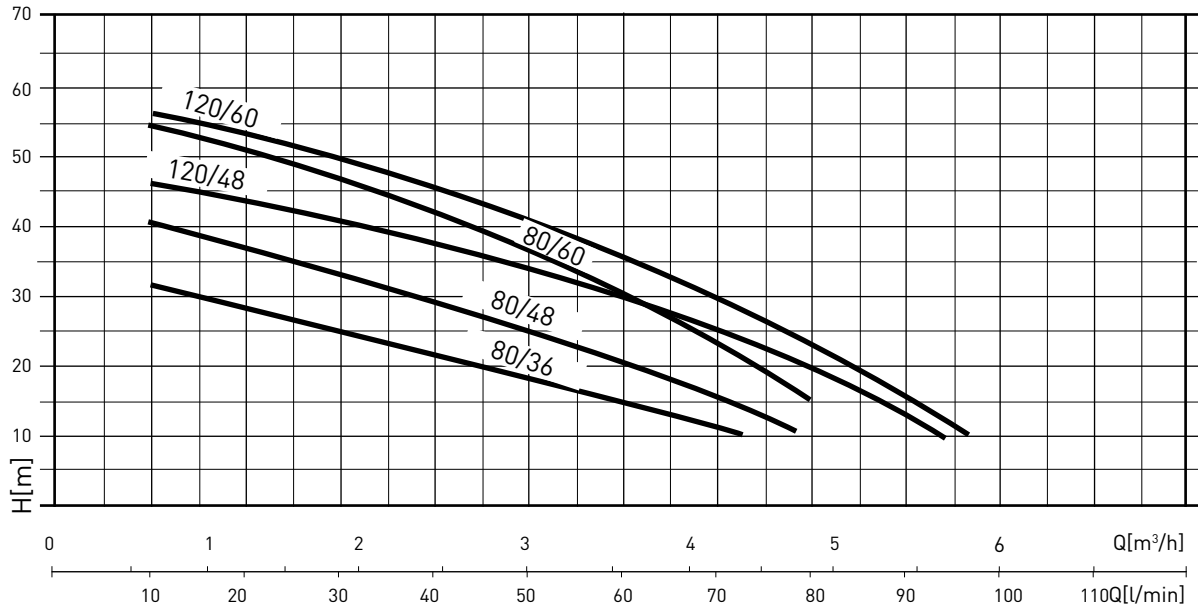
Component	Material
1 Outer liner (pump body)	X5 CrNi 1810 (AISI 304) Stainless steel
2 Suction flange	EN GJL 200 (ex G20) Cast iron
3 Motor bracket	EN GJL 200 (ex G20) Cast iron
4 Impeller	Technopolymer with stainless steel shim ring
5 Diffuser	Technopolymer
6 Shaft (hydraulic end)	X5 CrNi 1810 (AISI 304) Stainless steel
7 Mechanical seal	Graphite/Ceramic



# NOCCHI MULTINOX

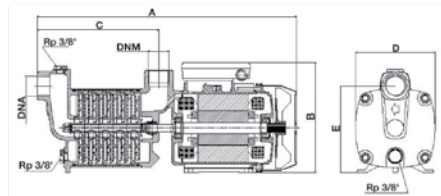
## MULTISTAGE CENTRIFUGAL PUMPS

### HYDRAULIC PERFORMANCE



### TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	In (A)	μF	Q	L/1'	0	20	60	100	140	180	
	HP	kW	HP	kW						0	1,2	3,6	6	8,4	10,8	
MULTINOX 80/36M MULTINOX 80/36T	0,60	0,45	0,9	0,65	1 ~ 230 V 3 ~ 230 ÷ 400 V	3 2,3-1,3	12,5	m.c.a. / m.c.w.	33	28	22	15	7			
MULTINOX 80/48M MULTINOX 80/48T	0,75	0,55	1,1	0,8	1 ~ 230 V 3 ~ 230 ÷ 400 V	3,8 2,7-1,6	12,5		43	37	29	20	9			
MULTINOX 80/60M MULTINOX 80/60T	1,00	0,75	1,5	1,25	1 ~ 230 V 3 ~ 230 ÷ 400 V	5,5 3-1,8	20		57	51	42	30	15			
MULTINOX 120/48M MULTINOX 120/48T	1,00	0,75	1,5	1,1	1 ~ 230 V 3 ~ 230 ÷ 400 V	4,7 3,3-1,9	16		48	43	37	29	20	4		
MULTINOX 120/60M MULTINOX 120/60T	1,20	0,9	1,7	1,25	1 ~ 230 V 3 ~ 230 ÷ 400 V	5,9 3,5-2	20		58	53	46	36	25	4		



### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.							Weight (Kg)
	A	B	C	D	E	DNA	DNM	
MULTINOX 80/36	343	158	148	126	130	1"	1"	9,5
MULTINOX 80/48	389	176	171	126	138	1"	1"	11,7
MULTINOX 80/60	411	175	193	126	138	1"	1"	13,7
MULTINOX 120/48	389	175	171	126	138	1"	1"	13,1
MULTINOX 120/60	411	175	193	126	138	1"	1"	13,7

# NOCCHI MAX

## SELF-PRIMING MULTISTAGE CENTRIFUGAL PUMPS

The MAX horizontal multistage centrifugal pumps combine the functional benefits of centrifugal pumps and the practical benefits of self priming pumps. They warrant high hydraulic and suction performances.

### MOTOR

- Enclosed, externally ventilated
- Level of protection IP 44
- Class F insulation
- Single phase power supply with capacitor permanently activated and thermal protection built into the motor winding
- Three phase power supply with external protection provided by the user
- Speed of rotation 2850 rpm
- Suitable for continuous use

### APPLICATIONS

- Booster systems
- Firefighting systems
- Washing systems, irrigation

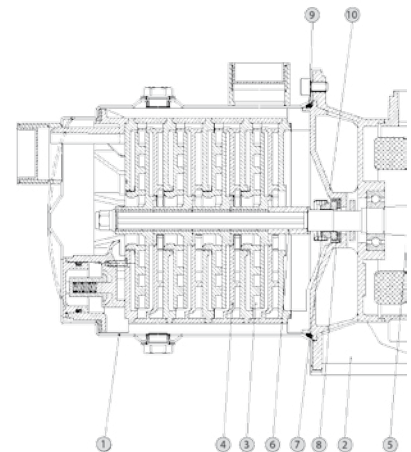
### USAGE LIMITATIONS

- Type of liquid: clean water with no suspended solids or abrasive material
- Maximum liquid temperature 50°C
- Maximum recommended suction height 7m with foot valve
- Maximum operating pressure 7 bar



### DESIGN FEATURES

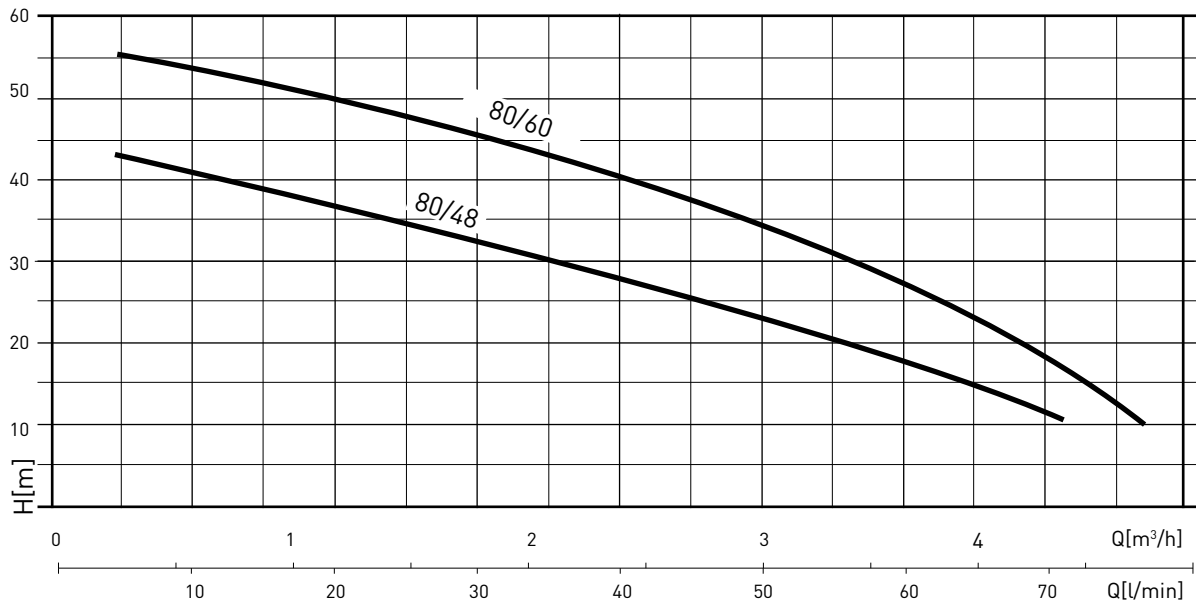
Component	Material
1 Pump casing	X5 CrNi 1810 (AISI 304) Stainless steel
2 Motor bracket	Die-cast aluminium
3 Impeller	Technopolymer with X5 CrNi 1810 (AISI 304) Stainless steel shim ring
4 Diffusors	Technopolymer
5 Shaft (hydraulic end)	X5 CrNi 1810 (AISI 304) Stainless steel
6 Spacer	OT 58 Nickel plated brass
7 Mechanical seal	Graphite
8 Counterface	Ceramic
9 O-rings	NBR 70 Shore
10 Seal housing	Noryl GFN2V



# NOCCHI MAX

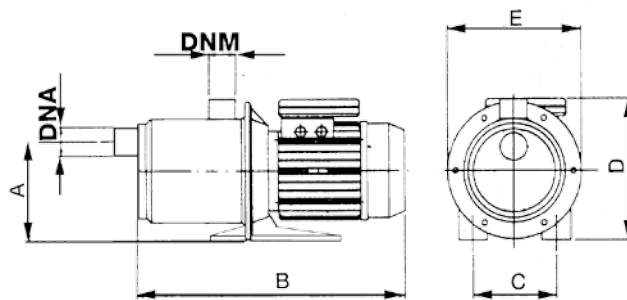
## SELF-PRIMING MULTISTAGE CENTRIFUGAL PUMPS

### HYDRAULIC PERFORMANCE



### TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	I <sub>n</sub> (A)	μF	Q	L/1'	0	20	40	60	80
	HP	kW	HP	kW					m³/h	0	1,2	2,4	3,6	4,8
MAX 80/48 M MAX 80/48 T MAX 80/48 C	0,75	0,55	1,1	0,8	1 ~ 230 V 3 ~ 230 ÷ 400 V 1 ~ 230 V	4 2,6-1,5 4	12,5	m.c.a. / m.c.w.	45	36	28	17	1	
MAX 80/60 M MAX 80/60 T	1	0,75	1,3	1	1 ~ 230 V 3 ~ 230 ÷ 400 V	4,8 2,9-1,7	16		57	50	40	27	3	



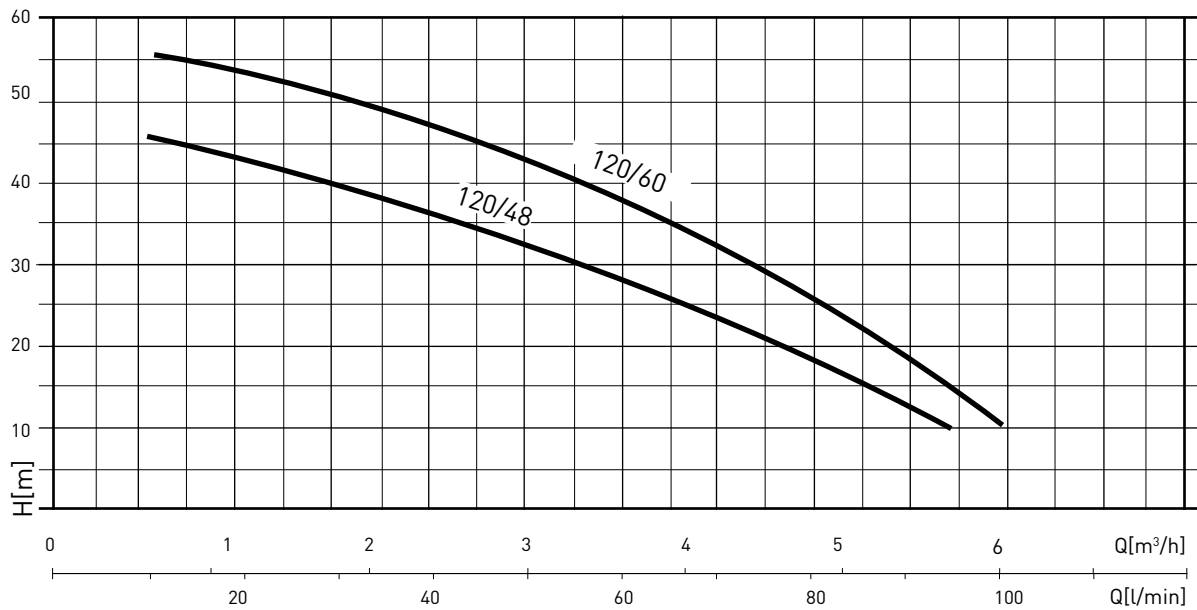
### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.							Weight (Kg)
	A	B	C	D	E	DNA	DNM	
MAX 80/48	129	370	99	182	176	1"	1"	8
MAX 80/60	129	392	99	182	176	1"	1"	8

# NOCCHI MAX

## SELF-PRIMING MULTISTAGE CENTRIFUGAL PUMPS

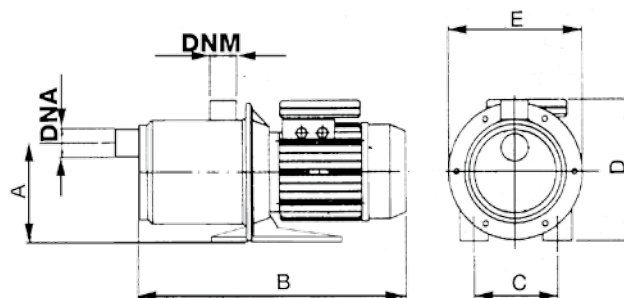
### HYDRAULIC PERFORMANCE



### TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	I <sub>n</sub> (A)	μF	Q	L/1'					
	HP	kW	HP	kW					0	20	40	60	80	100
MAX 120/48 M MAX 120/48 T	1	0,75	1,5	1,1	1 ~ 230 V 3 ~ 230 ÷ 400 V	4,6 3,6-2,1	16	m.c.a. / m.c.w.	0	20	40	60	80	100
									0	1,2	2,4	3,6	4,8	6
MAX 120/60 M MAX 120/60 T MAX 120/60 C*	1,2	0,9	1,7	1,25	1 ~ 230 V 3 ~ 230 ÷ 400 V 1 ~ 230 V	5,8 3,5-2 5,8	20		0	20	40	60	80	100
									0	1,2	2,4	3,6	4,8	6

\* Version equipped with cable, schuko plug, handle and switch



### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.							Weight (Kg)
	A	B	C	D	E	DNA	DNM	
MAX 120/48	129	393	99	192	176	1"	1"	10
MAX 120/60	129	392	99	182	176	1"	1"	11

# NOCCHI MULTINOX-A

## SELF-PRIMING MULTISTAGE CENTRIFUGAL PUMPS

STRONG AND RESISTANT, SELF PRIMING, HIGH SUCTION CAPABILITY, SPECIAL PATENTED BRASS VALVE FOR CLOSURE DURING THE PRIMING STAGE

The horizontal multistage centrifugal self-priming MULTINOX-A pumps are suitable for developing a considerable pressure and flow rate with extremely silent operation and with minimum electrical energy consumption.

### MOTOR

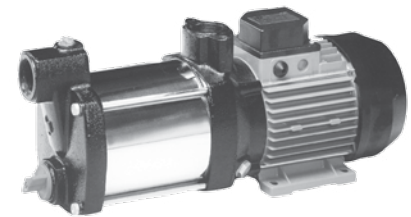
- Enclosed, externally ventilated
- Level of protection IP 44
- Class F insulation
- Single phase power supply with capacitor permanently activated and thermal protection built into the motor winding
- Three phase power supply with external protection provided by the user
- Speed of rotation 2850 rpm
- Suitable for continuous use

### APPLICATIONS

- Pumping and distribution of water in domestic systems used on a continuous or intermittent basis
- Booster systems
- Washing systems, garden irrigation, fountains

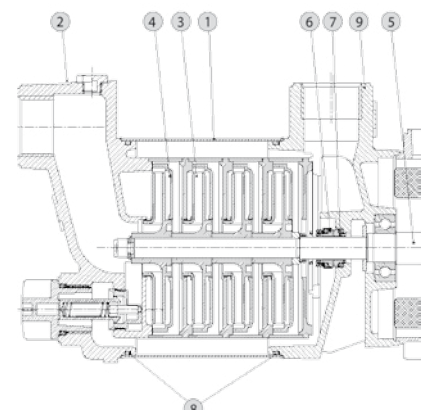
### USAGE LIMITATIONS

- Type of liquid: clean water with no suspended solids or abrasive material
- Maximum liquid temperature 50°C
- Maximum recommended suction height 8 m with foot valve
- Maximum operating pressure 9 bar



### DESIGN FEATURES

Component	Material
1 Outer liner (pump body)	X5 CrNi 1810 (AISI 304) Stainless steel
2 Suction flange	EN GJL 200 (ex G20) Cast iron
3 Impeller	Technopolymer with AISI 304 stainless steel shim ring
4 Diffusor	Technopolymer
5 Shaft (hydraulic end)	X5 CrNi 1810 (AISI 304) Stainless steel
6 Mechanical seal	Graphite
7 Counterface	Ceramic
8 O-rings	NBR 70 shore
9 Discharge flange Motor bracket	EN GJL 200 (ex G20) Cast iron



# NOCCHI MULTINOX-A

## SELF-PRIMING MULTISTAGE CENTRIFUGAL PUMPS

### HYDRAULIC PERFORMANCE

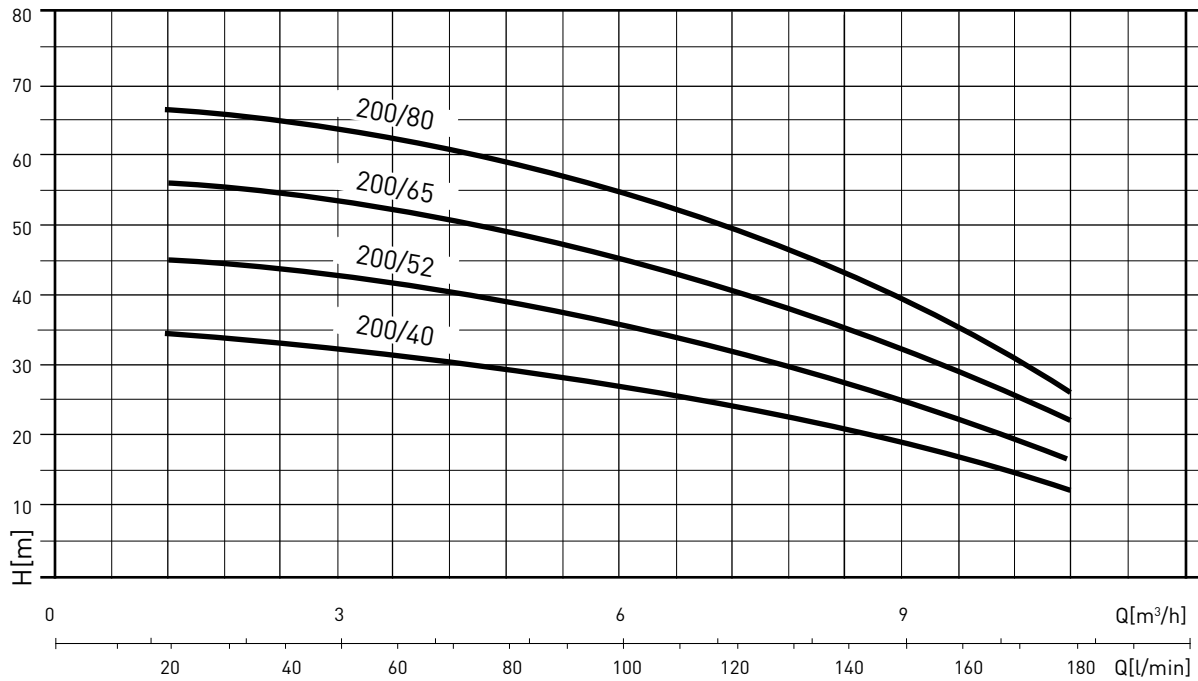


TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	In (A)	μF	Q	L/1'	20	60	100	140	180
	HP	kW	HP	kW						m³/h	1,2	3,6	6	8,4
MULTINOX-A 200/40 M MULTINOX-A 200/40 T	1,4	1	1,9 1,7	1,4 1,3	1 ~ 220 ÷ 400 V 3 ~ 230 ÷ 400 V	6,3 4-2,3	20	m.c.a. / m.c.w.	33,7	32,1	27,6	21,5	13,1	
MULTINOX-A 200/52 M MULTINOX-A 200/52 T	1,6	1,2	2,4 2,3	1,8 1,7	1 ~ 220 ÷ 400 V 3 ~ 230 ÷ 400 V	8,5 5,7-3,3	25		44,9	42,8	36,8	28,6	17,5	
MULTINOX-A 200/65 M MULTINOX-A 200/65 T	2	1,5	3 2,8	2,2 2,1	1 ~ 220 ÷ 400 V 3 ~ 230 ÷ 400 V	9,5 7,3-4,2	35		56,1	53,4	46	35,8	21,8	
MULTINOX-A 200/80 T	2,3	1,7	3,2	2,4	3 ~ 230 ÷ 400 V	8,3-4,8			67,3	64,1	55,2	42,9	26,2	

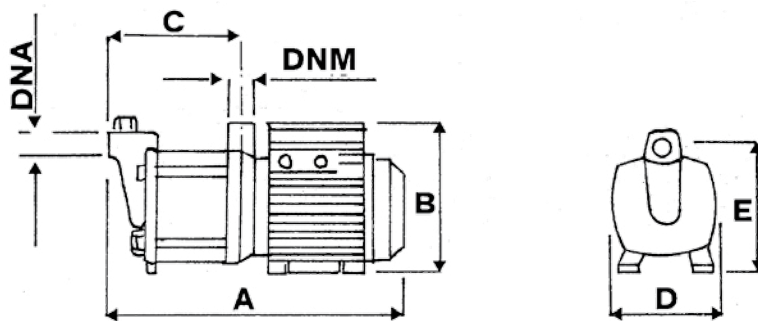


TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.							Weight (Kg)
	A	B	C	D	E	DNA	DNM	
MULTINOX-A 200/40	441	200	188	155	170	1" 1/4	1" 1/4	19
MULTINOX-A 200/52	469	200	215	155	170	1" 1/4	1" 1/4	21
MULTINOX-A 200/65	497	200	243	155	170	1" 1/4	1" 1/4	23
MULTINOX-A 120/48	525	200	270	155	170	1" 1/4	1" 1/4	25



# NOCCHI JET

## SELF-PRIMING CAST IRON PUMPS

STRONG AND RESISTANT, SELF PRIMING, HIGH SUCTION CAPABILITY

The JET series self-priming pumps combine the functional benefits of centrifugal pumps and the practical benefits of self-priming pumps. The Venturi system the pumps are fitted with guarantees optimum hydraulic efficiency and considerable pressure capacity.

### MOTOR

- Enclosed, externally ventilated
- Level of protection IP 44
- Class F insulation
- Single phase power supply with capacitor permanently activated and thermal protection built into the motor winding
- Three phase power supply with external protection provided by the user
- Speed of rotation 2850 rpm
- Suitable for continuous use.

### APPLICATIONS

- Pumping and distribution of water in domestic systems used on a continuous or intermittent basis
- Booster systems
- Washing systems, garden irrigation, fountains
- Pumping from wells or tanks

### USAGE LIMITATION

- Type of liquid: clean water with no suspended solids or abrasive material
- Maximum liquid temperature 50°C
- Maximum recommended suction height 8m with foot valve
- Maximum operating pressure: 6 bar (10 bar model 100-160)



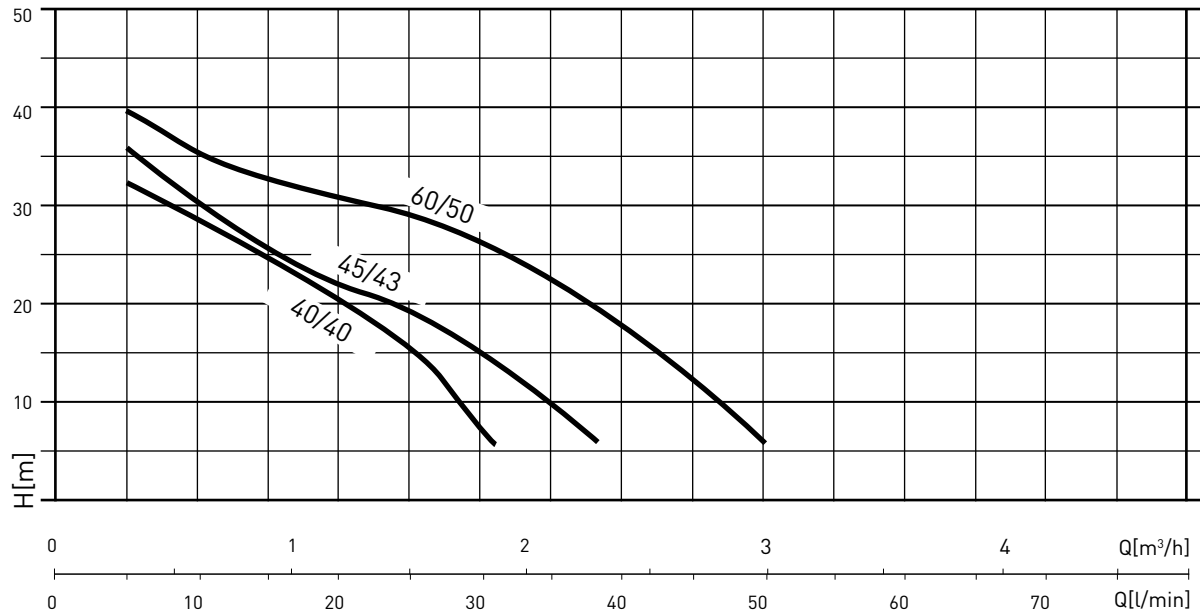
### DESIGN FEATURES

Component	Material	
	NEW JET	JET
1 Pump casing	EN GJL (ex G20) Cast iron	EN GJL (ex G20) Cast iron
2 Motor bracket	Aluminium	EN GJL (ex G20) Cast iron
3 Impeller	Technopolymer with X5 CrNi 1810 (AISI 304) Stainless steel shim ring	Technopolymer models 600-800-1000
		Pressed brass alloy models 100-160-800-1000
4 Diffusor venturi tube and nozzle	Monobloc assembly: Technopolymer	Technopolymer
5 Motor shaft	X12 CrNiS 1809 (AISI 416) Stainless steel	X12 CrNiS 1809 (AISI 416) Stainless steel
6 Mechanical seal	Graphite	Graphite
7 Counterface	Ceramic	Ceramic
8 O-rings	NBR 70 shore	NBR 70 shore

# NOCCHI JET

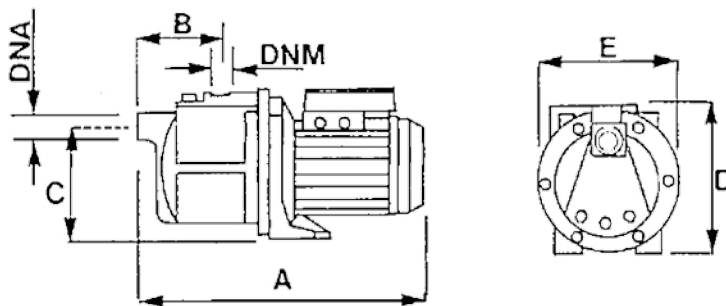
## SELF-PRIMING CAST IRON PUMPS

### HYDRAULIC PERFORMANCE



### TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	I <sub>n</sub> (A)	μF	Q	L/1'	0	10	20	30	40	50	
	HP	kW	HP	kW						m³/h	0	0,6	1,2	1,8	2,4	3
NEWJET 40/40 M	0,5	0,37	0,8	0,6	1 - 220 ÷ 240 V	3	6	m.c.a./m.c.w.	41	28	21	8				
NEWJET 45/43 M	0,5	0,37	0,8	0,6	1 - 220 ÷ 240 V	3	8		43	30	23	16	1			
NEWJET 60/50 M	0,75	0,35	1,1	0,8	1 - 220 ÷ 240 V	4	12,5		43	36	31	26	18	6		



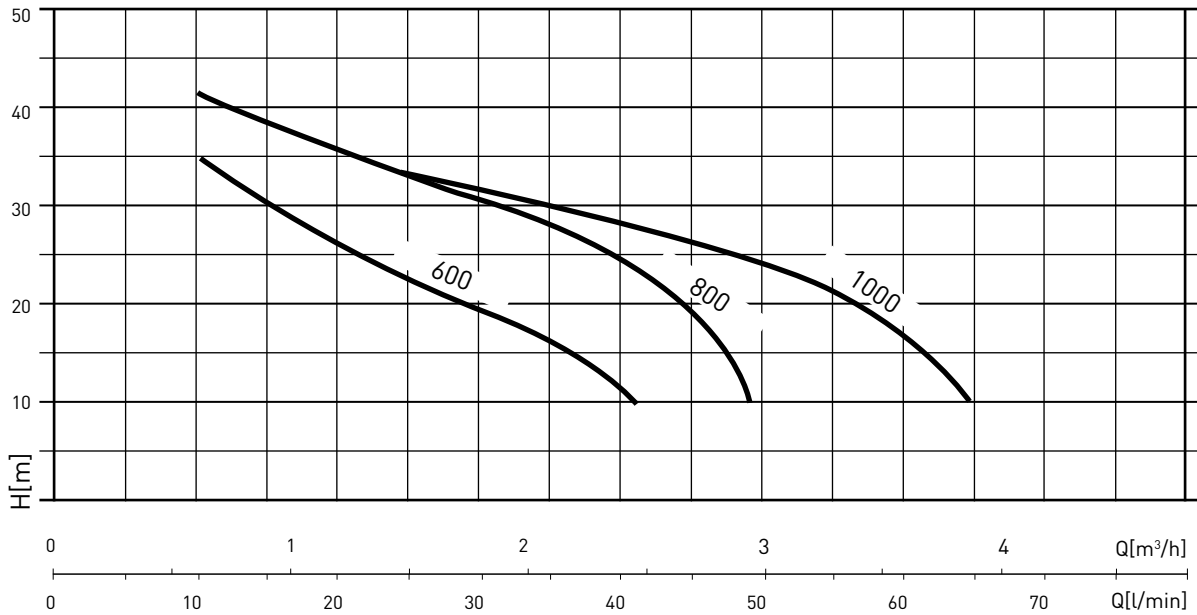
### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.							Weight (Kg)
	A	B	C	D	E	DNA	DNM	
NEWJET 40/40	351	93	130	180	174	1"	1"	8,2
NEWJET 45/43	351	93	130	180	174	1"	1"	8,2
NEWJET 60/50	351	93	130	180	174	1"	1"	9

# NOCCHI JET

## SELF-PRIMING CAST IRON PUMPS

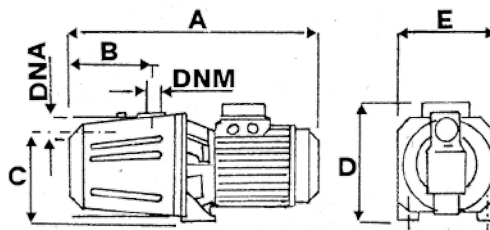
### HYDRAULIC PERFORMANCE



### TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	I <sub>n</sub> (A)	μF	Q	L/1'	5	20	30	40	50	60	70	
	HP	kW	HP	kW						m³/h	0,3	1,2	1,8	2,4	3	3,6	4,2
JET 600 M JET 600 T	0,8	0,6	0,9	0,7	1 ~ 220 ÷ 240 V 3 ~ 230 ÷ 400 V	3,2 1,9-1,1	8	m.c.a./m.c.w.	38	25	20	11					
JET 800 M JET 800 T	1	0,75	1,3	1	1 ~ 220 ÷ 240 V 3 ~ 230 ÷ 400 V	4,5 3,6-2,1	12,5		44	36	31	27	7				
JET 800 M O * JET 800 T O *	1	0,75	1,3	1	1 ~ 220 ÷ 240 V 3 ~ 230 ÷ 400 V	4,5 3,6-2,1	12,5		44	36	31	27	7				
JET 1000 M JET 1000 T	1,36	1	1,5	1,1	1 ~ 220 ÷ 240 V 3 ~ 230 ÷ 400 V	5 3,8-2,2	16		45	36	32	28	25	15	3		
JET 1000 M O * JET 1000 T O *	1,1	0,8	1,5	1,1	1 ~ 220 ÷ 240 V 3 ~ 230 ÷ 400 V	5 3,8-2,2	16		45	36	32	28	25	15	3		

\* Version with brass impeller



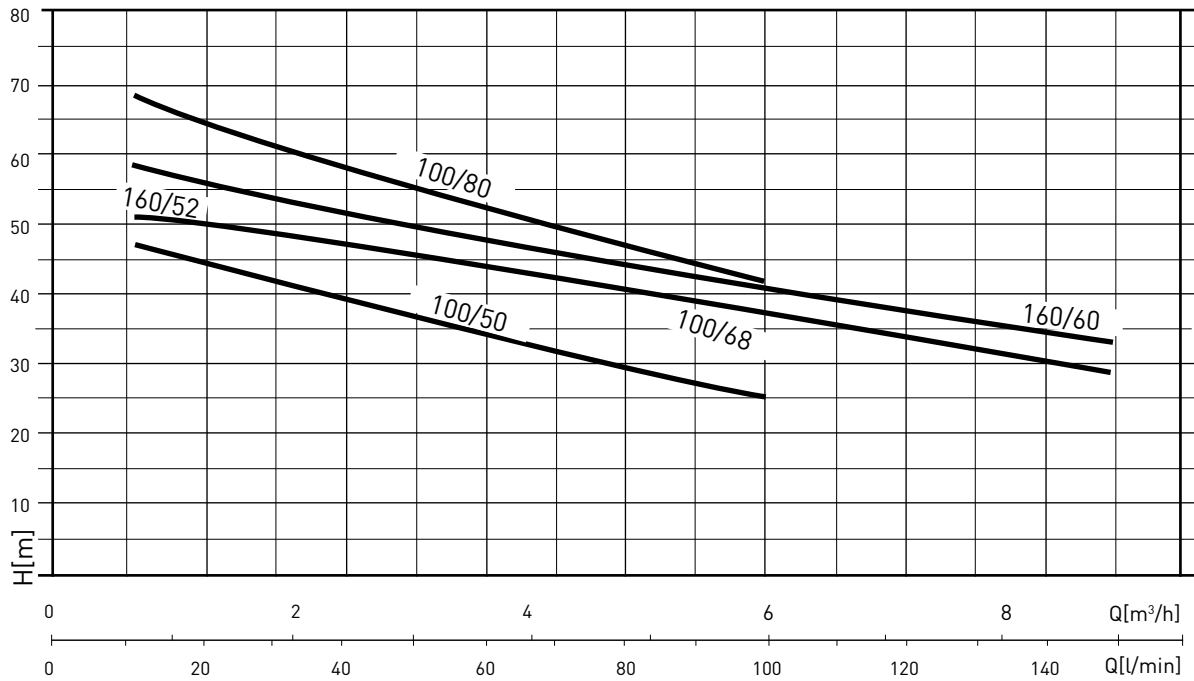
### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.							Weight (Kg)
	A	B	C	D	E	DNA	DNM	
JET 600	400	147	160	190	182	1"	1"	13,7
JET 800	400	147	160	190	182	1"	1"	14,2
JET 1000	425	147	160	190	182	1"	1"	16,8

# NOCCHI JET

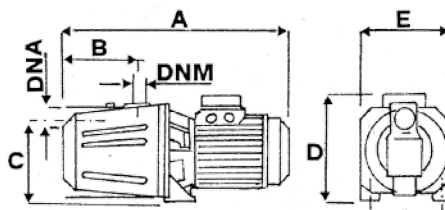
## SELF-PRIMING CAST IRON PUMPS

### HYDRAULIC PERFORMANCE



### TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	I <sub>n</sub> (A)	μF	Q	L/1'	5	20	40	60	80	100	130	160	
	HP	kW	HP	kW						m³/h	0,3	1,2	2,4	3,6	4,8	6	7,8	9,6
JET 100/50 M JET 100/50 T	1,5	1,1	2,2 2,4	1,7 1,8	1 ~ 230 V 3 ~ 230 ÷ 400 V	8,1 5,5-3,2	35	m.c.a. / m.c.w.	50	45	40	35	31	27				
JET 100/68 M JET 100/68 T	2	1,5	2,8 2,4	2,1 2,8	1 ~ 230 V 3 ~ 230 ÷ 400 V	9,8 5,5-3,2	40		60	55,5	49	47,5	34,5	30,5				
JET 100/80 T	3	2,2	3,5	2,6	3 ~ 230 ÷ 400 V	8,1-4,7			70	64,3	58	51,5	46,5	42				
JET 160/52 M JET 160/52 T	2	1,5	3,1 2,8	2,3 2,1	1 ~ 230 V 3 ~ 230 ÷ 400 V	10,5 6,9-4,0	40		52	49,5	48	45	42	38,7	33,2	27		
JET 160/60 T	3	2,2	3,5	2,6	3 ~ 230 ÷ 400 V	8,1-4,7			59	55,6	53	47	43,4	40	36	32,5		



### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.										Weight (Kg)
	A	B	C	D	E	F	H1	H2	DNA	DNM	
JET 100/50	177,5	157	495	220	180	247	170	223	1" 1/2	1"	26
JET 100/68 - 160/52	177,5	157	508	220	180	247	170	223	1" 1/2	1"	27
JET 100/80 - 160/60	177,5	157	508	220	180	229	170	223	1" 1/2	1"	28

# NOCCHI JETINOX

## SELF-PRIMING STAINLESS STEEL PUMPS

SELF PRIMING, HIGH SUCTION CAPABILITY

The JETINOX series self-priming pumps combine the functional benefits of centrifugal pumps and the practical and qualitative benefits of self-priming pumps. The Venturi system the pumps are fitted with guarantees optimum hydraulic efficiency and considerable pressure capacity.

### MOTOR

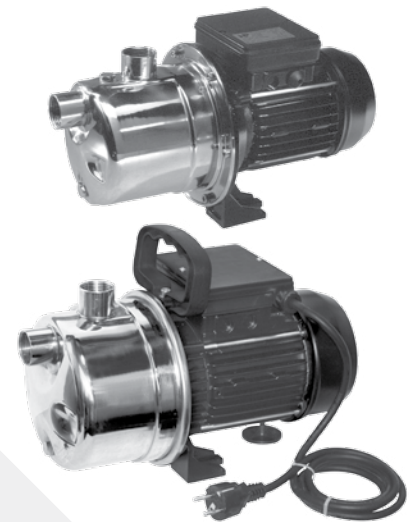
- Enclosed, externally ventilated
- Level of protection IP 44
- Class F insulation
- Single phase power supply with capacitor permanently activated
- Thermal protection built into the motor winding
- Speed of rotation 2850 rpm
- Suitable for continuous use

### APPLICATIONS

- Pumping and distribution of water in domestic systems used on a continuous or intermittent basis
- Booster systems
- Washing systems, garden irrigation, fountains
- Pumping from wells or tanks

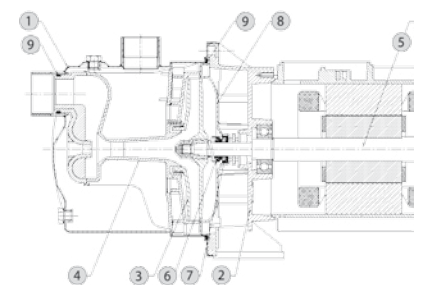
### USAGE LIMITATION

- Type of liquid: clean water with no suspended solids or abrasive material
- Maximum liquid temperature 50°C
- Maximum recommended suction height 8m with foot valve
- Maximum operating pressure 6 bar



### DESIGN FEATURES

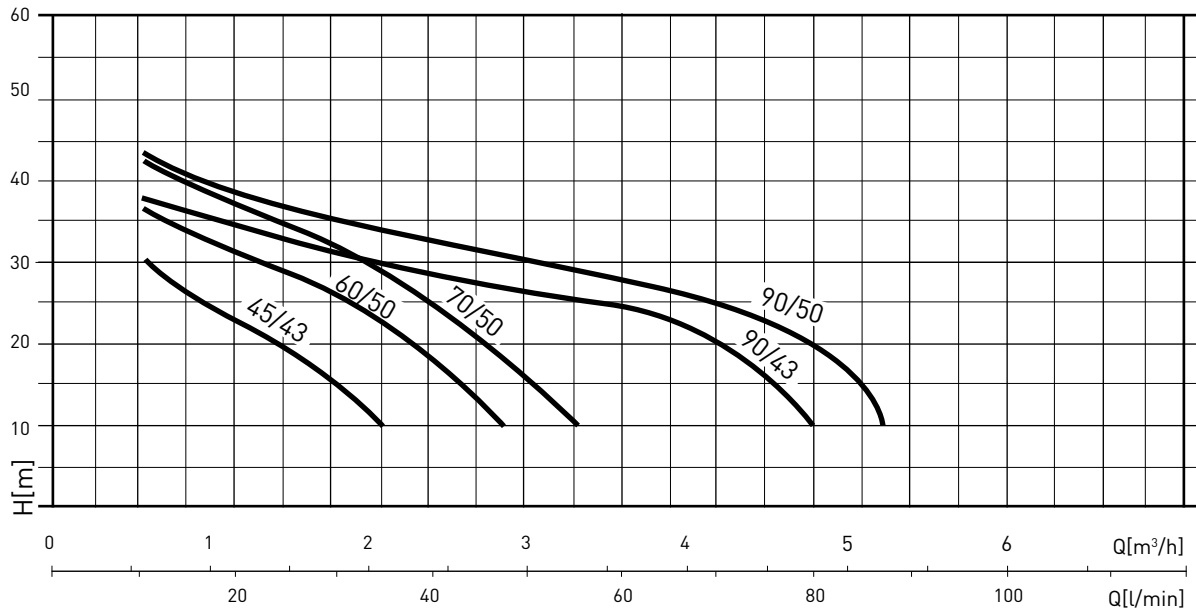
	Component	Material
1	Pump body	X5 CrNi 1810 (AISI 304) Stainless steel
2	Motor bracket	Die-cast aluminium
3	Impeller	Technopolymer with stainless steel shim ring
4	Monobloc diffusor Venturi tube nozzle assembly	Technopolymer
5	Shaft	X12 CrNiS 1809 (AISI 416) Stainless steel
6	Mechanical seal	Graphite
7	Counterface	Ceramic
8	Seal holder plate	Technopolymer (models 45-60-70) X5 CrNi 1810 (AISI 304) Stainless steel (model 90)
9	O-rings	NBR 70 Shore



# NOCCHI JETINOX

## SELF-PRIMING STAINLESS STEEL PUMPS

### HYDRAULIC PERFORMANCE

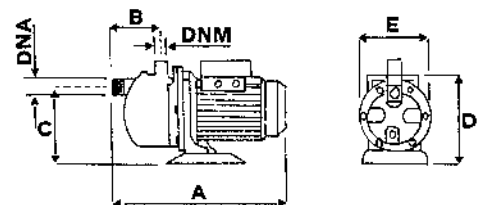


### TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	I <sub>n</sub> (A)	μF	Q	L/1'									
	HP	kW	HP	kW					0	10	20	30	40	50	60	70	80	
JETINOX 45/43 M	0,5	0,37	0,8	0,6	1 - 220÷240 V	3	8	m.c.a. / m.c.w.	43	30	23	16	1					
JETINOX 60/50 M	0,75	0,55	1,1	0,8	1 - 220÷240 V	4	12,5		46	36	31	26	18	6				
JETINOX 70/50 M	0,95	0,7	1,36	1,0	1 - 220÷240 V	4,5	16		48	42,5	37,5	32	25	16,5	7			
JETINOX 90/43 M	1,0	0,75	1,8	1,3	1 - 220÷240 V	6,5	20		43	48	34	32	29	27	25	21	10	
JETINOX 90/50 M	1,2	0,9	2	1,5	1 - 220÷240 V	7	25		50	42	39	37	33	30	27	25	20	
JETINOX 60/50 C	0,75	0,55	1,10	0,8	1 - 230÷240 V	4	12,5		46	36	31	26	18	6				
JETINOX 70/50 C	0,95	0,7	1,36	1,0	1 - 230÷240 V	4,5	16		48	42,5	37,5	32	25	16,5	7			
JETINOX 90/43 C	1,0	0,75	1,80	1,3	1 - 230÷240 V	6,5	20		43	38	34	32	29	27	25	21	10	

### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.							Weight (Kg)
	A	B	C	D	E	DNA	DNM	
JETINOX 45/43	351	93	140	190	178	1" F	1" F	4,7
JETINOX 60/50	374	93	140	190	178	1" F	1" F	8,2
JETINOX 70/50	351	76	144	196	180	1" F	1" F	9,5
JETINOX 90/43	397	98	168	220	235	1" 1/4 M	1" F	11
JETINOX 90/50	430	98	168	260	235	1" 1/4 M	1" F	13



# NOCCHI NRM

## CLOSE-COUPLED CENTRIFUGAL PUMPS (2 - 4 POLES)



STRONG AND RESISTANT, WIDE RANGE, HIGH HYDRAULIC PERFORMANCE

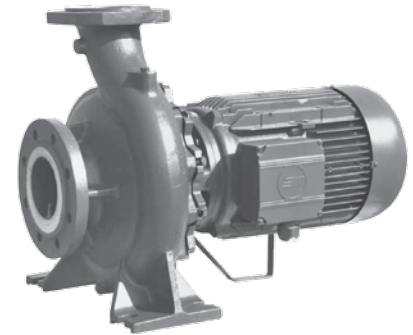
The NRM series is made up of single stage electric monobloc pumps with a flanged hydraulics/motor connection. The pump casing is manufactured in accordance with the provisions of EN733/DIN24255. The pumps may be installed in all positions, except where the suction port is directed upwards.

### MOTOR

- Type: induction, enclosed, ventilated
- Level of protection : IP 55
- Insulation class F
- Design: B3/B5
- Speed of rotation:
- NRM4 1450 rpm
- NRM2 2900 rpm

### APPLICATIONS

- Air conditioning and heating systems
- Pumping of water from lakes, watercourses, wells
- Overhead or surface irrigation
- Water supply systems.
- Boosting and firefighting systems



### USAGE LIMITATION

- Type of liquid: non-aggressive, non-explosive, free from solid particles and fibres.
- Hot water for heating
- Coolants
- Environmental temp.: max 40°C
- Temperature of pumped liquid: -10°C + 130°C
- Maximum operating pressure: 10 bar

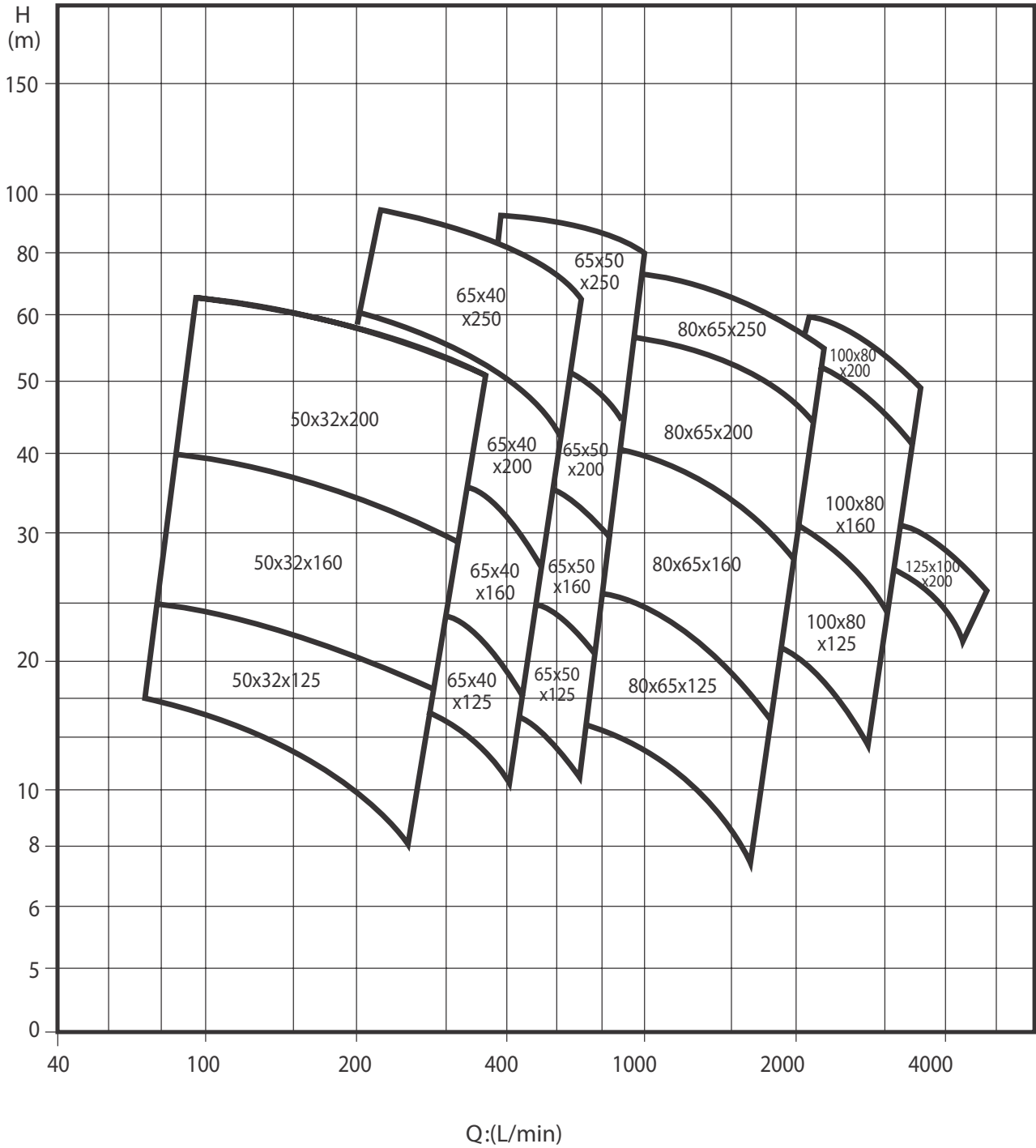
### DESIGN FEATURES

COMPONENT		MATERIAL
1	Pump casing	EN GJL 200 ( ex G20 ) Cast iron
2	Motor bracket	EN GJL 200 ( ex G20 ) Cast iron
3	Impeller	EN GJL 200 ( ex G20 ) Cast iron
4	Shaft	AISI 420 stainless steel
5	Mechanical seal	Silicium carbide/Silicium carbide

# NOCCHI NRM2

## CLOSE-COUPLED CENTRIFUGAL PUMPS (2 - 4 POLES)

### HYDRAULIC PERFORMANCE





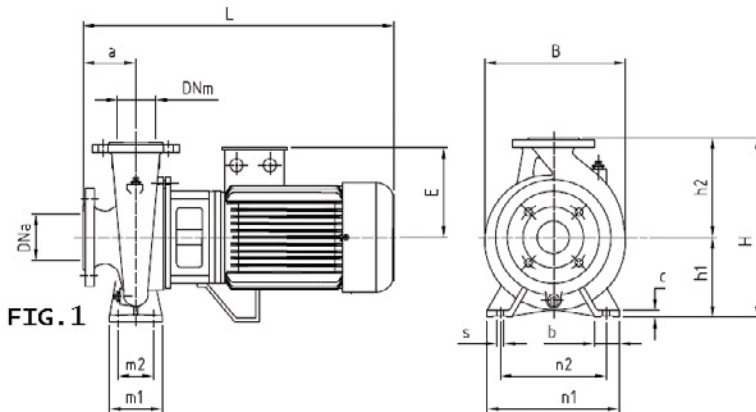
# NOCCHI NRM2 50x32

## CLOSE-COUPLED CENTRIFUGAL PUMPS (2 - 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A)	Q	L/1'	100	125	150	175	200	225	250	275	300	350	400
	HP	kW					6	7,5	9	10,5	12	13,5	15	16,5	18	21	24
NRM2 50x32x125C	1	0,75	230/400	1,7	m.c.a. / m.c.w.	15,5	14,5	13,5	12,4	11,5	10,3	9	7,5	6			
NRM2 50x32x125B	1,5	1,1	230/400	2,5		20,5	20	19	18	17	16	15	13,5	11,5	7,5		
NRM2 50x32x125A	2	1,5	230/400	3,4		24,5	24	23,5	23	22	21	20	18,5	16,5	13		
NRM2 50x32x160C	3	2,2	230/400	4,4		28,5	28	27,5	26,5	25,5	24	23	21,5	20	15		
NRM2 50x32x160B	4	3	230/400	5,9		33,5	33	32,5	32	31	30	29	27,5	26	22,5		
NRM2 50x32x160A	4	3	230/400	5,9		38	37,5	37	36	35	34	33	31,5	30	26,5		
NRM2 50x32x200C	5,5	4	230/400	7,8		47	46,5	46	45	44	43	42	41	39,5	37,5	35	
NRM2 50x32x200C	5,5		400/690	7,8													
NRM2 50x32x200B	7,5	5,5	230/400	10,4		55	54,5	54	53,5	53	52	51	49,5	48	45	42	
NRM2 50x32x200B			400/690	10,4													
NRM2 50x32x200A	10	7,5	230/400	14,2		62	61,5	61	60	59,2	58,5	57,5	56,4	55	52,5	49	
NRM2 50x32x200A			400/690	14,2													

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
 For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site



"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
32	78	100	140	4	18
50	102	125	165	4	18

### TABLE OF SIZES AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions mm.															Weight (Kg)
		PN16 mm	PN16 mm	Fig.	a	h1	h2	b	m1	m2	n1	n2	s	C	W	L ~	B	H	
NRM2 50x32x125C	71	32	50	1	80	112	140	50	100	70	190	140	14	12	-	421	200	252	23,3
NRM2 50x32x125B	80	32	50	1	80	112	140	50	100	70	190	140	14	12	-	421	200	252	23,6
NRM2 50x32x125A	80	32	50	1	80	112	140	50	100	70	190	140	14	12	-	421	200	252	25,9
NRM2 50x32x160C	80	32	50	1	80	132	160	50	100	70	240	190	14	12	-	426	240	292	31
NRM2 50x32x160B	100	32	50	1	80	132	160	50	100	70	240	190	14	12	-	495	240	292	36,5
NRM2 50x32x160A	100	32	50	1	80	132	160	50	100	70	240	190	14	12	-	495	240	292	38,5
NRM2 50x32x200C	100	32	50	1	80	160	180	50	100	70	240	190	14	12	-	495	240	340	46,9
NRM2 50x32x200B	112	32	50	1	80	160	180	50	100	70	240	190	14	12	-	517	240	340	51,1
NRM2 50x32x200A	112	32	50	1	80	160	180	50	100	70	240	190	14	12	-	539	240	340	59,6

# NOCCHI NRM2 65x40

## CLOSE-COUPLED CENTRIFUGAL PUMPS (2 - 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3x440	Q	L/1'	250	275	300	350	400	450	500	550	600	650	700	
	HP	kW					m <sup>3</sup> /h	15	16,5	18	21	24	27	30	33	36	39	42
NRM2 65X40X125C	2	1,5	230/400	3,4	m.c.a. / m.c.w.	15,5	15,3	15	14,1	13	11,8	10,5	9	7				
NRM2 65X40X125B	3	2,2	230/400	4,4		19	18,8	18,5	17,5	16,5	15,5	14,5	13	10,5				
NRM2 65X40X125A	4	3	230/400	5,9		24,5	24,3	24	23,5	23	22	20,5	19	17				
NRM2 65X40X160B	4	3	230/400	5,9		30	29,5	29	28	26,5	25	23	20,5	18				
NRM2 65X40X160A	5,5	4	230/400	7,8		36,5	36	35,5	34,5	33,5	32,5	31	29	27				
NRM2 65X40X160A			400/690	7,8														
NRM2 65X40X200C	7,5	5,5	230/400	10,4		45,3	44,8	44	43	41,5	39	37	34	31				
NRM2 65X40X200C			400/690	10,4														
NRM2 65X40X200B	10	7,5	230/400	14,2		51	50,5	50	49	47,5	45	42,5	40	37				
NRM2 65X40X200B			400/690	14,2														
NRM2 65X40X200A	10	7,5	230/400	14,2		56,5	56	55,5	54,5	53	51	49	47	44				
NRM2 65X40X200A			400/690	14,2														
NRM2 65X40X250D	15	11	230/400	19,8		69	68,5	68	66,5	65	63	61	59	57	54			
NRM2 65X40X250D			400/690	19,8														
NRM2 65X40X250C	20	15	400/690	27		77	76,5	76	74,5	73	71	69	67	65	62,5	60		
NRM2 65X40X250B	20	15	400/690	27		90	89,8	89,2	88,2	87	85,3	83,2	80,7	78	75	71		

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
40	83	110	150	4	18
65	122	145	185	4	18

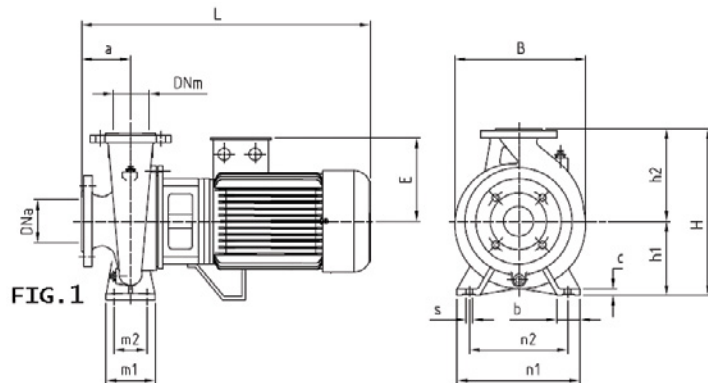


FIG. 1

### TABLE OF SIZES AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions mm.														Weight (Kg)	
		PN16 mm	PN16 mm	Fig.	a	h1	h2	b	m1	m2	n1	n2	s	C	W	L ~	B		H
NRM2 65X40X125C	80	40	65	1	80	112	140	50	100	70	240	140	14	12	-	421	215	252	26,9
NRM2 65X40X125B	90	40	65	1	80	112	140	50	100	70	210	140	14	12	-	426	215	252	28
NRM2 65X40X125A	100	40	65	1	80	112	140	50	100	70	210	140	14	12	-	495	215	252	33,5
NRM2 65X40X160B	100	40	65	1	80	132	160	50	100	70	240	190	14	12	-	495	270	292	33,5
NRM2 65X40X160A	100	40	65	1	80	132	160	50	100	70	240	190	14	12	-	495	280	292	43,1
NRM2 65X40X200C	112	40	65	1	100	160	180	50	100	70	265	190	14	12	-	537	270	340	47,9
NRM2 65X40X200B	112	40	65	1	100	160	180	50	100	70	265	190	14	12	-	559	270	340	55,4
NRM2 65X40X200A	132	40	65	1	100	160	180	50	100	70	265	190	14	12	-	559	270	340	60,6
NRM2 65X40X250D	132	40	65	1	100	180	225	65	125	95	320	250	14	12	-	654	315	405	82,5
NRM2 65X40X250C	132	40	65	1	100	180	225	65	125	95	320	250	14	12	-	705	315	405	87
NRM2 65X40X250B	132	40	65	1	100	180	225	65	125	95	320	250	14	12	-	705	315	405	94

# NOCCHI NRM2 65x50

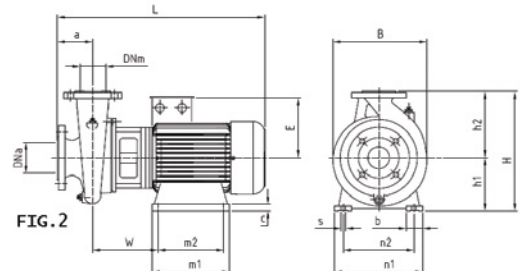
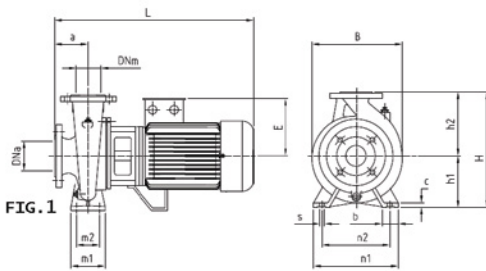
## CLOSE-COUPLED CENTRIFUGAL PUMPS (2 - 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'	400	450	500	550	600	650	700	750	800	900	1000	
	HP	kW				m³/h	24	27	30	33	36	39	42	45	48	54	60	
NRM2 65X50X125C	3	2,2	230/400	4,4	m.c.a. / m.c.w.	17	16,5	16	15,5	15	14	13	12	11	9			
NRM2 65X50X125B	4	3	230/400	5,9		21	20,5	20	19,5	19	18,3	17,5	16,8	16	14	12		
NRM2 65X50X125A	5,5	4	230/400	7,8		25,5	25,3	25	24,5	24	23,5	23	22,5	21,5	20	18		
NRM2 65X50X125A			400/690	7,8														
NRM2 65X50X160B	7,5	5,5	230/400	10,4		32,5	32	31,5	31	30,5	30	29,5	29	28	26	23,5		
NRM2 65X50X160B			400/690	10,4														
NRM2 65X50X160A	10	7,5	230/400	14,2		37	36,5	36	35,5	35	34,5	34	33,5	32,5	31	29		
NRM2 65X50X160A			400/690	14,2														
NRM2 65X50X200B	15	11	230/400	19,8		51	50,5	50	49	48	47	45,5	44,5	43	39,5	37		
NRM2 65X50X200B			400/690	19,8														
NRM2 65X50X200A	20	15	400/690	27		58	57,5	57	56	55	54	53	51,5	50	46,5	42,5		
NRM2 65X50X250D	20	15	400/690	27		72	71	70	69	68	67	66	64,5	63	60	56		
NRM2 65X50X250C	25	18,5	400/690	33,3		80,5	80	79,5	78,5	77,5	76,5	75,5	74,5	73,5	71	67,5		
NRM2 65X50X250B	30	22	400/690	38,6		92	91,8	91,5	91	90	89	88	87	86	83	80		

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
50	102	125	165	4	18
65	122	145	185	4	18



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions mm.														Weight (Kg)	
		PN16 mm	PN16 mm	Fig.	a	h1	h2	b	m1	m2	n1	n2	s	C	W	L ~	B		H
NRM2 65X50X125C	90	50	65	1	100	132	160	50	100	70	240	190	14	12	-	446	245	292	34,5
NRM2 65X50X125B	100	50	65	1	100	132	160	50	100	70	240	190	14	12	-	515	270	292	40
NRM2 65X50X125A	100	50	65	1	100	132	160	50	100	70	240	190	14	12	-	515	280	292	44,1
NRM2 65X50X160B	112	50	65	1	100	160	180	50	100	70	265	212	14	12	-	537	270	340	53,4
NRM2 65X50X160A	112	50	65	1	100	160	180	50	100	70	265	212	14	12	-	559	270	340	58,1
NRM2 65X50X200B	132	50	65	1	100	160	200	50	100	70	265	212	14	12	-	654	285	360	73,5
NRM2 65X50X200A	132	50	65	1	100	160	200	50	100	70	265	212	14	12	-	705	285	360	77
NRM2 65X50X250D	132	50	65	1	100	180	225	50	100	70	265	212	14	12	-	705	320	405	95
NRM2 65X50X250C	160	50	65	2	100	180	225	76	420	370	320	254	14	20	210	802	320	405	146
NRM2 65X50X250B	160	50	65	2	100	180	225	76	420	370	320	254	14	20	210	802	320	405	167

# NOCCHI NRM2 80x65

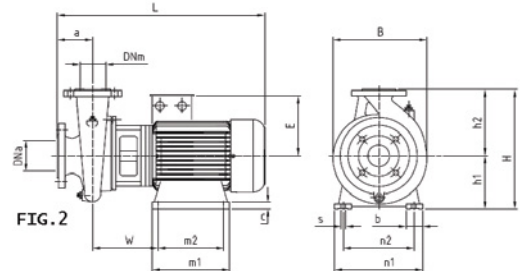
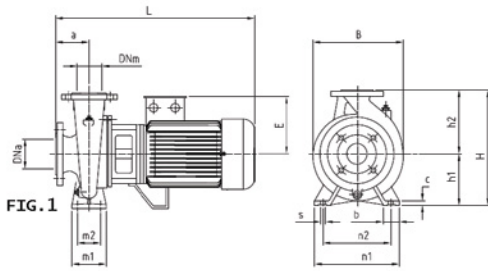
## CLOSE-COUPLED CENTRIFUGAL PUMPS (2 - 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'	600	650	700	750	800	900	1000	1250	1500	1750	2000	2250	
	HP	kW				m³/h	36	39	42	45	48	54	60	75	90	105	120	135	
NRM2 80X65X125C	5,5	4	230/400	7,8	m.c.a. / m.c.w.	17,5	17,3	17	16,5	16	15,5	14,5	12	9					
NRM2 80X65X125C			400/690	7,8															
NRM2 80X65X125B	7,5	5,5	230/400	10,4		21	20,8	20,6	20,3	20	19,5	19	17	14,5	11				
NRM2 80X65X125B			400/690	10,4															
NRM2 80X65X125A	10	7,5	230/400	14,2		25	24,8	24,6	24,3	24	23,5	23	21,5	19	16				
NRM2 80X65X125A			400/690	14,2															
NRM2 80X65X160C	15	11	230/400	19,8					30,5	30,3	30	29,5	29	26,5	24	20,5	16		
NRM2 80X65X160C			400/690	19,8															
NRM2 80X65X160B	20	15	400/690	27					36,5	36,3	36	35,5	34,5	33	30	27	23	19	
NRM2 80X65X160A			400/690	27															
NRM2 80X65X200D	25	18,5	400/690	27					41	40,8	40,5	40	39,5	38	35,5	33	29	24	
NRM2 80X65X200C			400/690	27															
NRM2 80X65X200B	30	22	400/690	33,3							44	43,5	43	41,5	39	35,5	31,5		
NRM2 80X65X200B			400/690	33,3															
NRM2 80X65X250D	30	22	400/690	38,6							51	50	49,5	48,5	46,5	43,5	39,5	35	
NRM2 80X65X250D			400/690	38,6															
NRM2 80X65X250D	30	22	400/690	38,6						57	56,5	56	55	53,5	51	48	42,5		
NRM2 80X65X250D			400/690	38,6															
NRM2 80X65X250D	30	22	400/690	38,6						64	63,5	63	61	57	53				
NRM2 80X65X250D			400/690	38,6															

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
65	122	145	185	4	18
80	138	160	200	8	18



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions mm.															Weight (Kg)
		PN16 mm	PN16 mm	Fig.	a	h1	h2	b	m1	m2	n1	n2	s	C	W	L ~	B	H	
NRM2 80X65X125C	100	65	80	1	100	160	180	65	125	95	280	212	14	14	-	515	280	340	44,9
NRM2 80X65X125B	112	65	80	1	100	160	180	65	125	95	280	212	14	14	-	537	280	340	47,1
NRM2 80X65X125A	112	65	80	1	100	160	180	65	125	95	280	212	14	14	-	559	280	340	57,6
NRM2 80X65X160C	132	65	80	1	100	160	200	65	125	95	280	212	14	14	-	654	280	360	75,5
NRM2 80X65X160B	132	65	80	1	100	160	200	65	125	95	280	212	14	14	-	705	280	360	79
NRM2 80X65X160A	132	65	80	1	100	160	200	65	125	95	280	212	14	14	-	705	280	360	85
NRM2 80X65X200D	132	65	80	1	100	180	225	65	125	95	280	212	14	14	-	705	330	405	89,5
NRM2 80X65X200C	160	65	80	2	100	180	225	65	420	370	320	254	14	20	210	802	330	405	140
NRM2 80X65X200B	160	65	80	2	100	180	225	65	420	370	320	254	14	20	210	802	330	405	144
NRM2 80X65X250D	160	65	80	2	100	180	250	65	420	370	320	254	14	20	222	814	365	430	172

# NOCCHI NRM2 100x80

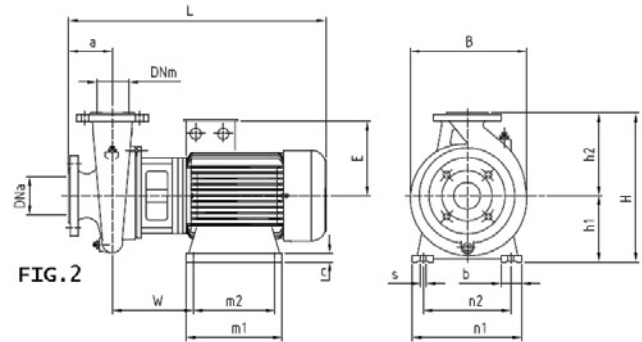
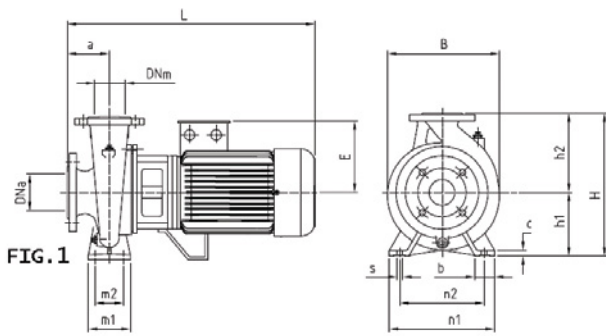
## CLOSE-COUPLED CENTRIFUGAL PUMPS (2 - 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'	1000	1250	1500	1750	2000	2250	2500	2750	3000	3500	4000	4500	5000		
	HP	kW					m <sup>3</sup> /h	60	75	90	105	120	135	150	165	180	210	240	270	300	
NRM2 100X80X160D	15	11	230/400	19,8	m.c.a./m.c.w.		24	23	22	21	19,5	18	16,5	15							
NRM2 100X80X160D			400/690	19,8																	
NRM2 100X80X160C	20	15	400/690	27			28,5	28	27	26	24,5	23	21,5	20	18,5						
NRM2 100X80X160B	20	15	400/690	27			34	33,3	32,5	31,8	31	29	27,5	26	24,5						
NRM2 100X80X200D	25	18,5	400/690	33,3			42	41	40	38,5	37	35	33	30,5							
NRM2 100X80X200C	30	22	400/690	38,6			47	46,5	45,5	44,5	43	41	39	37							

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
80	138	160	200	8	18
100	158	180	220	8	18



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor	DNm PN16 mm	DNa PN16 mm	Fig.	Dimensions mm.														Weight (Kg)
					a	h1	h2	b	m1	m2	n1	n2	s	C	W	L ~	B	H	
NRM2 100X80X160D	132	80	100	1	125	180	225	65	125	95	320	250	14	14	-	679	315	405	79,5
NRM2 100X80X160C	132	80	100	1	125	180	225	65	125	95	320	250	14	14	-	730	315	405	83,5
NRM2 100X80X160B	132	80	100	1	125	180	225	65	125	95	320	250	14	14	-	730	315	405	90,5
NRM2 100X80X200D	160	80	100	2	125	180	250	65	420	370	320	254	14	20	222	839	360	430	150
NRM2 100X80X200C	160	80	100	2	125	180	250	65	420	370	320	254	14	20	222	839	360	430	192

# NOCCHI NRM2 125x100

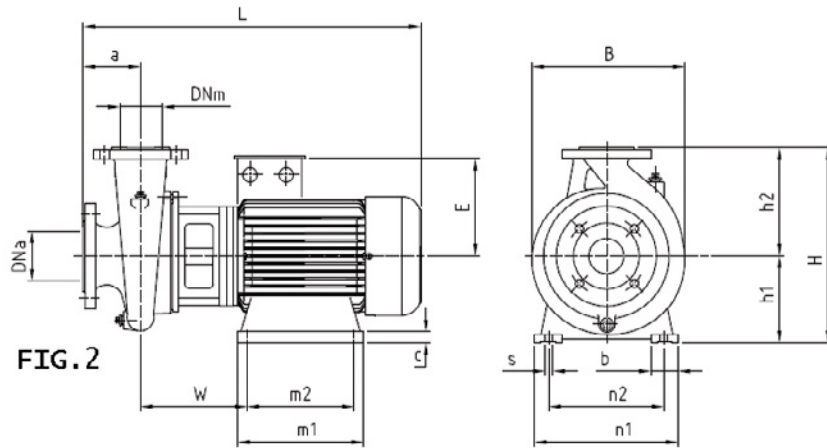
## CLOSE-COUPLED CENTRIFUGAL PUMPS (2 - 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'	1000	1250	1500	1750	2000	2250	2500	2750	3000	3500	4000	4500	5000
	HP	kW				m <sup>3</sup> /h	60	75	90	105	120	135	150	165	180	210	240	270	300
NRM2 125x100x200D	30	22	400/690	38,6	m.c.a./ m.c.w				39	38	37	36	34,5	33	31,5	28	24		

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
100	158	180	220	8	18
125	188	210	250	8	18

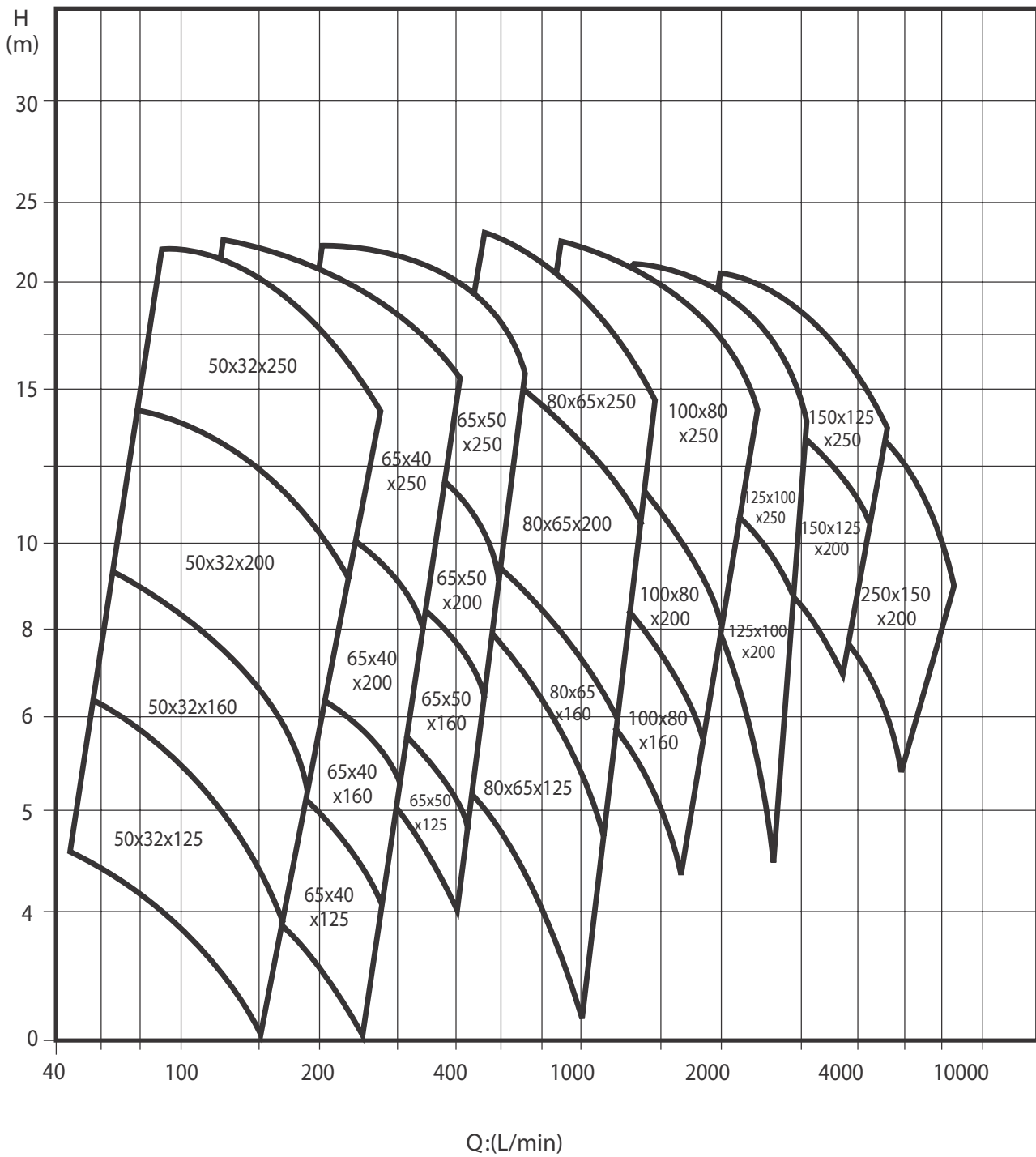


### TABLE OF SIZES AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions mm.															Weight (Kg)
		PN16 mm	PN16 mm	Fig.	a	h1	h2	b	m1	m2	n1	n2	s	C	W	L ~	B	H	
NRM2 125x100x200D	160	100	125	2	125	180	280	65	420	370	320	254	14	20	222	839	380	460	160

# NOCCHI NRM4

## CLOSE-COUPLED CENTRIFUGAL PUMPS (2 - 4 POLES)



# NOCCHI NRM4 50x32

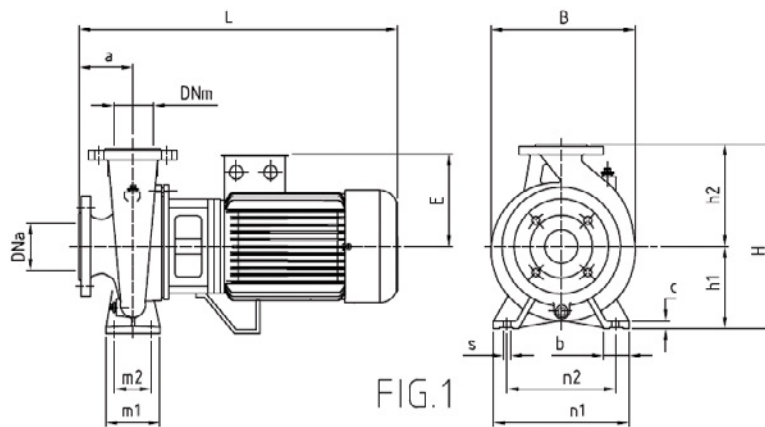
## CLOSE-COUPLED CENTRIFUGAL PUMPS (2 - 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'	50	75	100	125	150	175	200	225	250	275	300	
	HP	kW					m³/h	3	4,5	6	7,5	9	10,5	12	13,5	15	16,5	18
NRM4 50x32x125Y	0,33	0,25	230/400	0,9	m.c.a./m.c.w.		4,4	4	3,5	3	2,2							
NRM4 50x32x125X	0,33	0,25	230/400	0,9			6,2	6	5,8	5,2	4,5	3,9	3					
NRM4 50x32x160X	0,5	0,37	230/400	1,2			9,4	9,2	8,9	8,3	7,7	6,9	5,8	4,7				
NRM4 50x32x200Y	1	0,75	230/400	1,8			13	12,8	12,4	11,9	11,3	10,6	9,8	9	8	7	6	
NRM4 50x32x200X	1,5	1,1	230/400	2,5				14,5	14,3	13,8	13,3	12,7	11,8	10,9	10	9	8	

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
32	78	100	140	4	18
50	102	125	165	4	18



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions mm.															Weight (Kg)
		PN16 mm	PN16 mm	Fig.	a	b	c	m1	m2	n1	n2	s	h1	h2	H	B	L ~	E ~	
NRM4 50x32x125Y	71	32	50	1	80	50	12	100	70	190	140	14	112	140	252	205	405	110	19,5
NRM4 50x32x125X	71	32	50	1	80	50	12	100	70	190	140	14	112	140	252	205	405	110	19,5
NRM4 50x32x160X	71	32	50	1	80	50	12	100	70	240	190	14	132	160	292	240	405	110	23
NRM4 50x32x200Y	80	32	50	1	80	50	12	100	70	240	190	14	160	180	340	255	421	129	31,7
NRM4 50x32x200X	90	32	50	1	80	50	12	100	70	240	190	14	160	180	340	255	456	138	36,8



# NOCCHI NRM4 65x40

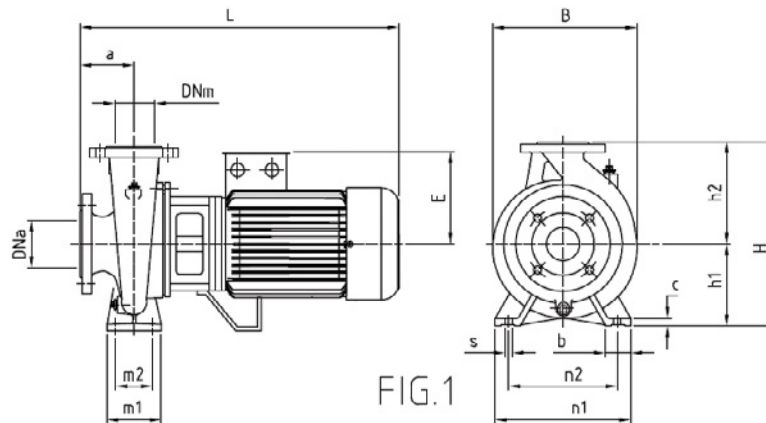
## CLOSE-COUPLED CENTRIFUGAL PUMPS (2 - 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'												
	HP	kW				m <sup>3</sup> /h	100	125	150	175	200	225	250	275	300	350	400	
NRM4 65x40x125Y	0,33	0,25	230/400	0,9	m.c.a. / m.c.w.	4,6	4,5	4,3	4,1	3,9	3,6	3,3	2,9	2,4				
NRM4 65x40x125X	0,5	0,37	230/400	1,2		6,3	6,2	6,1	6	5,8	5,5	5,2	4,9	4,4	3			
NRM4 65x40x160X	0,75	0,55	230/400	1,7		8,8	8,6	8,3	8	7,7	7,3	6,9	6,4	5,9	4,5			
NRM4 65x40x200Y	1,5	1,1	230/400	2,5		12,7	12,5	12,1	11,7	11,2	10,7	10,1	9,3	8,5	7			
NRM4 65x40x200X	1,5	1,1	230/400	2,5		14,2	14	13,8	13,4	13	12,5	11,8	11	10,2	8,3	6		
NRM4 65x40x250Y	2	1,5	230/400	3,4		18,3	18	17,7	17,4	17	16,6	16,2	15,6	15	13,7	12		
NRM4 65x40x250X	3	2,2	230/400	5,1		22,5	22,3	22	21,7	21,4	21	20,5	20	19,5	18,5	17		

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
40	88	110	150	4	18
65	122	145	185	4	18



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions mm.														Weight [Kg]	
		PN16 mm	PN16 mm	Fig.	a	b	c	m1	m2	n1	n2	s	h1	h2	H	B	L ~		E ~
NRM4 65x40x125Y	71	40	65	1	80	50	12	100	70	210	160	14	112	140	252	230	405	110	20,5
NRM4 65x40x125X	71	40	65	1	80	50	12	100	70	210	160	14	112	140	252	230	405	110	21,5
NRM4 65x40x160X	71	40	65	1	80	50	12	100	70	240	190	14	132	160	292	230	405	110	25
NRM4 65x40x200Y	90	40	65	1	100	50	12	100	70	265	212	14	160	180	340	285	476	138	39,9
NRM4 65x40x200X	90	40	65	1	100	50	12	100	70	265	212	14	160	180	340	242	476	138	39,9
NRM4 65x40x250Y	90	40	65	1	100	65	12	125	95	320	250	14	180	225	405	325	476	138	49,4
NRM4 65x40x250X	100	40	65	1	100	65	12	125	95	320	250	14	180	225	405	325	415	145	56,9

# NOCCHI NRM4 65x50

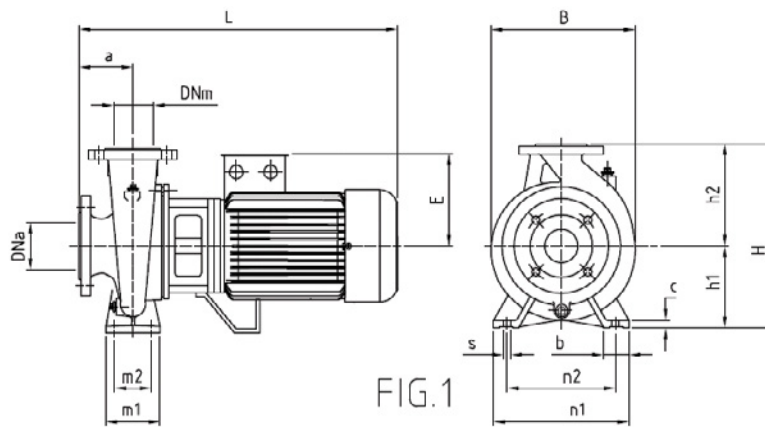
## CLOSE-COUPLED CENTRIFUGAL PUMPS (2 - 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In [A] 3X440	Q	L/1'	150	175	200	225	250	275	300	350	400	450	500	550	600	650	700		
	HP	kW				m³/h	9	10,5	12	13,5	15	16,5	18	21	24	27	30	33	36	39	42		
NRM4 65x50x125Y	0,5	0,37	230/400	1,2	m.c.a. / m.c.w.	5,3	5,3	5,2	5,1	5	4,9	4,8	4,5	4,1	3,6	3							
NRM4 65x50x125X	0,75	0,55	230/400	1,7		6,4	6,3	6,2	6,1	6	5,9	5,8	5,5	5,2	4,9	4,4							
NRM4 65x50x160Y	1	0,75	230/400	1,8				8,2	8	7,9	7,8	7,7	7,4	7,1	6,6	5,8	5	4					
NRM4 65x50x160X	1,5	1,1	230/400	2,5				9	8,9	8,8	8,7	8,6	8,4	8,1	7,7	7,2	6,5	5,5					
NRM4 65x50x200Y	1,5	1,1	230/400	2,5					12,4	12,2	12	11,8	11,5	10,8	10	9	8	7	5,8				
NRM4 65x50x200X	2	1,5	230/400	3,4					14,3	14,2	14,1	14	13,7	13	12,3	11,3	10,2	9,1	7,8	6,4	5		
NRM4 65x50x250Y	3	2,2	230/400	5,1					18,5	18,3	18,1	17,8	17,5	17	16,2	15,5	14,5	13,5	12,5	11,2	10		
NRM4 65x50x250X	4	3	230/400	6,5					22,5	22,4	22,3	22,2	22	21,5	20,9	20,2	19,4	18,5	17,5	16,3	15		

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
50	102	125	165	4	18
65	122	145	185	4	18



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions mm.															Weight (Kg)
		PN16 mm	PN16 mm	Fig.	a	b	c	m1	m2	n1	n2	s	h1	h2	H	B	L ~	E ~	
NRM4 65x50x125Y	71	50	65	1	100	50	12	100	70	240	190	14	132	160	292	246	425	110	25
NRM4 65x50x125X	71	50	65	1	100	50	12	100	70	240	190	14	132	160	292	246	425	110	26
NRM4 65x50x160Y	80	50	65	1	100	50	12	100	70	265	212	14	160	180	340	269	441	129	33,7
NRM4 65x50x160X	90	50	65	1	100	50	12	100	70	265	212	14	160	180	340	269	476	138	38,8
NRM4 65x50x200Y	90	50	65	1	100	50	12	100	70	265	250	14	160	200	360	285	476	138	41,9
NRM4 65x50x200X	90	50	65	1	100	50	12	100	70	265	212	14	160	200	360	285	476	138	41,9
NRM4 65x50x250Y	100	50	65	1	100	65	14	125	95	320	250	14	180	225	405	333	415	145	59,9
NRM4 65x50x250X	100	50	65	1	100	65	14	125	95	320	250	14	180	225	405	333	515	145	67

# NOCCHI NRM4 80x65

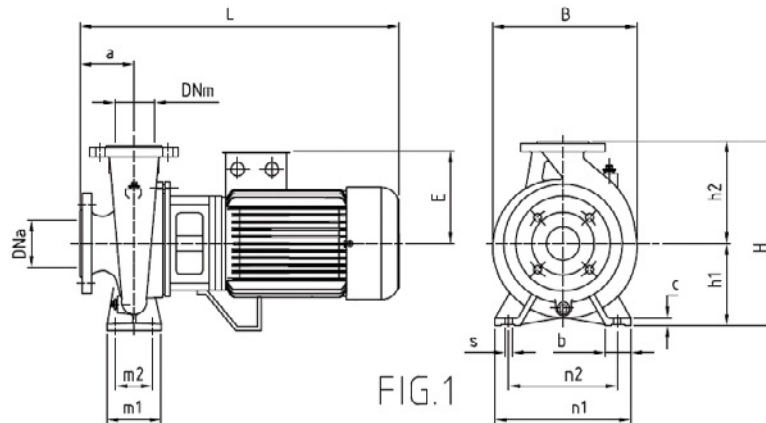
## CLOSE-COUPLED CENTRIFUGAL PUMPS (2 - 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'																
	HP	kW				m³/h																
						18	21	24	27	30	33	36	42	48	54	60	66	72	78	84		
NRM4 80x65x125X	1	0,75	230/400	1,8	m.c.a. / m.c.w.	5,8	5,7	5,6	5,5	5,3	5,1	4,9	4,5	4								
NRM4 80x65x160Y	1,5	1,1	230/400	2,5		8,6	8,5	8,4	8,3	8,2	8,1	8	7,5	6,8	6	5						
NRM4 80x65x160X	2	1,5	230/400	3,4		10,2	10,1	10	9,9	9,8	9,6	9,4	9	8,5	7,7							
NRM4 80x65x200Y	3	2,2	230/400	5,1				12,5	12,4	12,3	12,2	12,1	11,7	11,1	10,5	9,6	8,5					
NRM4 80x65x200X	4	3	230/400	6,5						15,2	15,1	15	14,6	14,3	13,6	12,8	12	11				
NRM4 80x65x250Y	5,5	4	230/400	8,5						19,5	19,3	19,1	18,4	17,5	16,5	15,5	14	12,5	10,5			
NRM4 80x65x250Y			400/690	8,5																		
NRM4 80x65x250X	7,5	5,5	230/400	10,8						23	22,8	22,6	22,2	21,4	20,6	19,7	18,7	17,5	16	14		
NRM4 80x65x250X			400/690	10,8																		

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
65	122	145	185	4	18
80	138	160	200	8	18



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor	DNm PN16 mm	DNa PN16 mm	Fig.	Dimensions mm.														Weight (Kg)
					a	b	c	m1	m2	n1	n2	s	h1	h2	H	B	L ~	E ~	
NRM4 65x40x125Y	71	40	65	1	80	50	12	100	70	210	160	14	112	140	252	230	405	110	20,5
NRM4 65x40x125X	71	40	65	1	80	50	12	100	70	210	160	14	112	140	252	230	405	110	21,5
NRM4 65x40x160X	71	40	65	1	80	50	12	100	70	240	190	14	132	160	292	230	405	110	25
NRM4 65x40x200Y	90	40	65	1	100	50	12	100	70	265	212	14	160	180	340	285	476	138	39,9
NRM4 65x40x200X	90	40	65	1	100	50	12	100	70	265	212	14	160	180	340	242	476	138	39,9
NRM4 65x40x250Y	90	40	65	1	100	65	12	125	95	320	250	14	180	225	405	325	476	138	49,4
NRM4 65x40x250X	100	40	65	1	100	65	12	125	95	320	250	14	180	225	405	325	415	145	56,9

# NOCCHI NRM4 100x80

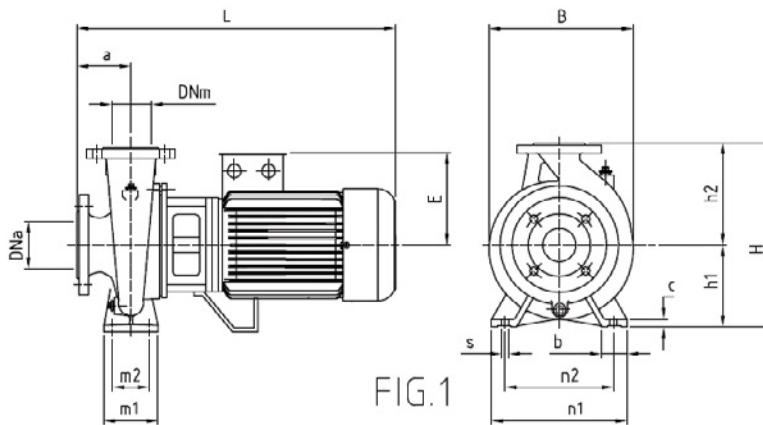
## CLOSE-COUPLED CENTRIFUGAL PUMPS (2 - 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'	600	650	700	800	900	1000	1100	1200	1300	1400	1500	1750	2000	2250	
	HP	kW				m <sup>3</sup> /h	36	39	42	48	54	60	66	72	78	84	90	105	120	135	
NRM4 100x80x160Y	2	1,5	230/400	3,4	m.c.a. / m.c.w.	7,7	7,6	7,5	7,3	7	6,7	6,4	6,1	5,8	5,4	5					
NRM4 100x80x160X	3	2,2	230/400	5,1		9,7	9,6	9,5	9,3	9	8,8	8,5	8,2	7,9	7,5	7,1	6				
NRM4 100x80x200Y	4	3	230/400	6,5		12	11,9	11,8	11,5	11,3	11	10,5	10	9,5	9	8,5	7				
NRM4 100x80x200X	5,5	4	230/400	8,5		14,5	14,4	14,2	14	13,8	13,5	13,1	12,7	12,2	11,6	11	9	6,5			
NRM4 100x80x200X			400/690	8,5																	
NRM4 100x80x250Y	7,5	5,5	230/400	10,8						19	18,5	18	17,5	17	16,5	16	14	12			
NRM4 100x80x250Y			400/690	10,8																	
NRM4 100x80x250X	10	7,5	230/400	14,4						22	21,9	21,7	21,2	20,8	20,5	20	18,5	16,8	14,5		
NRM4 100x80x250X			400/690	14,4																	

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
80	138	160	200	8	18
100	158	180	220	8	18



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions mm.															Weight (Kg)
		PN16 mm	PN16 mm	Fig.	a	b	c	m1	m2	n1	n2	s	h1	h2	H	B	L ~	E ~	
NRM4 100x80x160Y	90	80	100	1	125	65	14	125	95	320	250	14	180	225	405	330	501	138	46,9
NRM4 100x80x160X	100	80	100	1	125	65	14	125	95	320	250	14	180	225	405	330	440	145	53,9
NRM4 100x80x200Y	100	80	100	1	125	65	12	125	95	345	280	14	180	250	430	355	552	145	70
NRM4 100x80x200X	112	80	100	1	125	65	12	125	95	345	280	14	180	250	430	355	574	160	81,9
NRM4 100x80x250Y	132	80	100	1	125	80	14	160	120	400	315	18	200	280	480	400	631	194	113,1
NRM4 100x80x250X	132	80	100	1	125	80	14	160	120	400	315	18	200	280	480	400	671	194	127

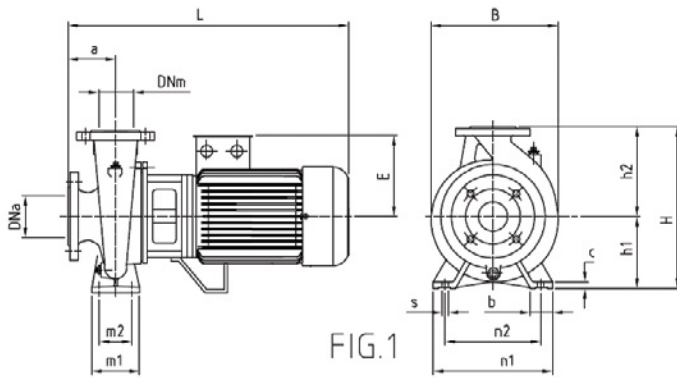
# NOCCHI NRM4 125x100

## CLOSE-COUPLED CENTRIFUGAL PUMPS (2 - 4 POLES)

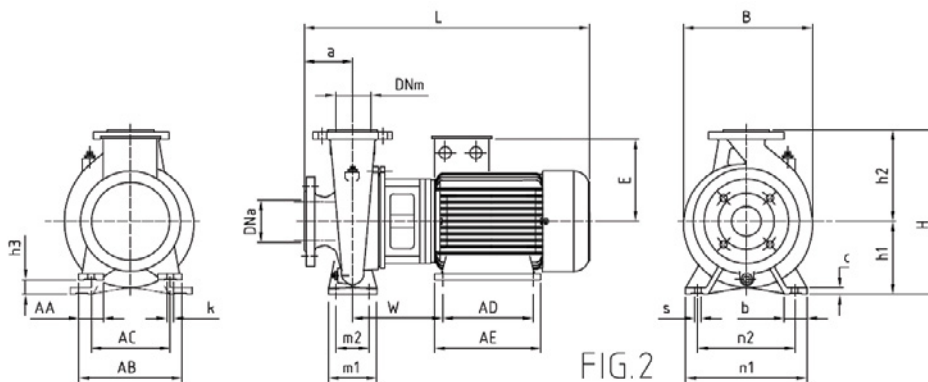
### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'	900	1000	1100	1200	1300	1400	1500	1750	2000	2250	2500	2750	3000	
	HP	kW					m³/h	54	60	66	72	78	84	90	105	120	135	150	165	180
NRM4 125x100x200Y	5,5	4	230/400	8,5	m.c.a. / m.c.w.		12,4	12,2	12	11,8	11,6	11,4	11,2	10,3	9,3	8,2	6,8	4,8		
NRM4 125x100x200Y			400/690	8,5																
NRM4 125x100x200X	7,5	5,5	230/400	10,8			14,5	14,4	14,2	14	13,8	13,6	13,4	12,8	12	11	10	8,5		
NRM4 125x100x200X			400/690	10,8																
NRM4 125x100x250Y	10	7,5	230/400	14,4				19,5	19,3	19,1	18,9	18,7	18,5	17,5	16,5	15,2	14	12		
NRM4 125x100x250Y			400/690	14,4																
NRM4 125x100x250X	15	11	230/400	22																
NRM4 125x100x250X			400/690	22			22	21,9	21,8	21,7	21,6	21,3	20,5	19,6	18,5	17	15	13		

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site



"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
65	122	145	185	4	18
80	138	160	200	8	18



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor	DNm	DNa	Fig.	Dimensions mm.																	Weight (Kg)						
					PN16 mm	PN16 mm	a	b	c	m1	m2	n1	n2	s	h1	h2	h3	H	AA	AB	AC		AD	AE	k	W	B	L ~
NRM4 125x100x200Y	112	100	125	1	125	80	14	160	120	360	280	18	200	280	-	480	-	-	-	-	-	-	-	-	385	574	160	79,9
NRM4 125x100x200X	132	100	125	1	125	80	14	160	120	360	280	18	200	280	-	480	-	-	-	-	-	-	-	-	385	631	194	107,1
NRM4 125x100x250Y	132	100	125	1	140	80	14	160	120	400	315	18	225	280	-	505	-	-	-	-	-	-	-	-	420	686	194	126
NRM4 125x100x250X	160	100	125	2	140	80	14	160	120	400	315	18	225	280	65	505	76	320	254	210	270	14	191	420	779	238	161	

# NOCCHI NRM4 150x125

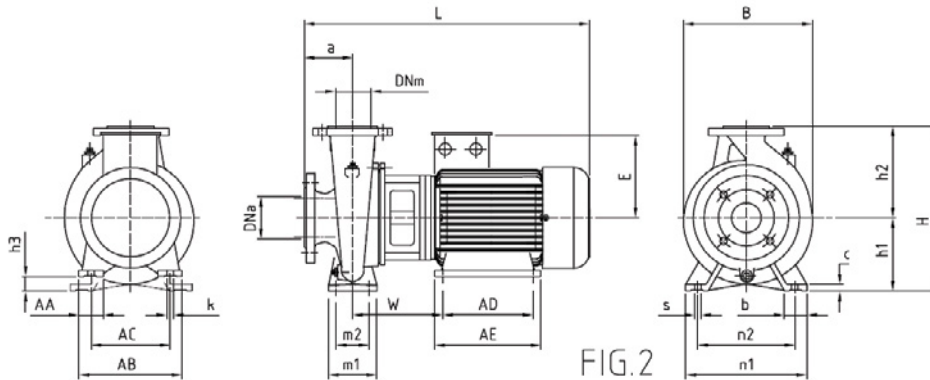
## CLOSE-COUPLED CENTRIFUGAL PUMPS (2 - 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'	1800	2000	2500	3000	3500	4000	4500	5000	
	HP	kW				m <sup>3</sup> /h	108	120	150	180	210	240	270	300	
NRM4 150x125x200W	7,5	5,5	400/690	10,8	m.c.a./m.c.w.	10,4	10,2	9,4	8,3	6,8					
NRM4 150x125x200Z	10	7,5	400/690	14,4		11,6	11,5	10,9	9,9	8,6	7				
NRM4 150x125x200Y	10	7,5	400/690	14,4		13	12,8	12,3	11,6	10,5	9,1	7,5			
NRM4 150x125x200X	15	11	400/690	22		14,3	14,2	13,8	13,2	12,3	11,1	9,6	8		
NRM4 150x125x250Z	15	11	400/690	22		17	16,6	15,7	14,4	12,6					
NRM4 150x125x250Y	20	15	400/690	29			19,8	19	18	16,6	15				
NRM4 150x125x250X	20	15	400/690	29			20,8	19,7	18,6	17	15,2	13,2			

MEI ≥ 0,1 - Benchmark MEI > 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
65	122	145	185	4	18
80	138	160	200	8	18



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor	DNm		Fig.	Dimensions mm.																			Weight (Kg)			
		PN16 mm	PN16 mm		a	b	c	m1	m2	n1	n2	s	h1	h2	h3	H	AA	AB	AC	AD	AE	k	W		B	L	E
NRM4 150x125x200W	132	125	150	2	140	80	14	160	120	400	315	18	250	280	118	565	59	256	216	140	180	12	230	470	657	194	137,1
NRM4 150x125x200Z	132	125	150	2	140	80	14	160	120	400	315	18	250	315	118	565	59	256	216	178	218	12	241	470	697	194	148
NRM4 150x125x200Y	132	125	150	2	140	80	14	160	120	400	315	18	250	315	118	565	59	256	216	178	218	12	241	470	697	194	155
NRM4 150x125x200X	160	125	150	2	140	80	14	160	120	400	315	18	250	315	90	565	76	320	254	210	270	14	241	470	790	238	187
NRM4 150x125x250Z	160	125	150	2	140	80	16	160	120	400	315	18	250	355	90	605	76	320	254	210	270	14	260	470	790	238	197,5
NRM4 150x125x250Y	160	125	150	2	140	80	16	160	120	400	315	18	250	355	90	605	76	320	254	254	310	14	260	470	854	238	205
NRM4 150x125x250X	160	125	150	2	140	80	16	160	120	400	315	18	250	355	90	605	76	320	254	254	310	14	280	470	854	238	205

# NOCCHI NRM4 200x150

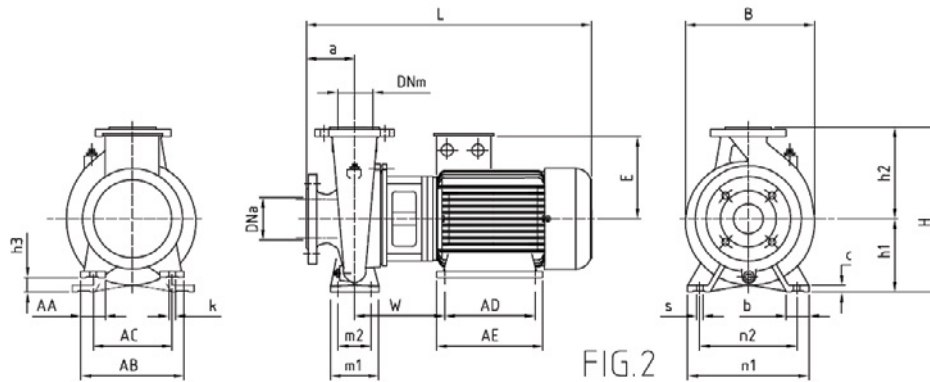
## CLOSE-COUPLED CENTRIFUGAL PUMPS (2 - 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'	2500	3000	3500	4000	4500	5000	5500	6000	6500	
	HP	kW				m <sup>3</sup> /h	150	180	210	240	270	300	330	360	390	
NRM4 200x150x200W	7,5	5,5	400/690	14,4	m.c.a. / m.c.w.	10,4	9,7	8,9	7,9	6,7	5,5					
NRM4 200x150x200Z	15	11	400/690	22		11,5	10,9	10,2	9,3	8,3	7	5,8				
NRM4 200x150x200Y	15	11	400/690	22			13,3	12,6	12	11,1	10,1	9	7,6			
NRM4 200x150x200X	20	15	400/690	29			14,5	14	13,2	12,5	11,6	10,6	9,4	8		

MEI ≥ 0,1 - Benchmark MEI > 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site

"Flange UNI PN16"					
DN	a1	b1	c1	d1	e1
65	122	145	185	4	18
80	138	160	200	8	18



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor	DNm	DNa	Dimensions mm.																		Weight (Kg)					
		PN16 mm	PN16 mm	Fig.	a	b	c	m1	m2	n1	n2	s	h1	h2	h3	H	AA	AB	AC	AD	AE		k	W	B	L ~	E ~
NRM4 200x150x200W	132	150	200	2	160	100	22	200	155	550	450	24	280	400	148	680	59	256	216	178	218	12	280	550	717	194	181
NRM4 200x150x200Z	160	150	200	2	160	100	22	200	155	550	450	24	280	400	120	680	76	320	254	210	270	14	241	550	810	238	210,5
NRM4 200x150x200Y	160	150	200	2	160	100	22	200	155	550	450	24	280	400	120	680	76	320	254	210	270	14	260	550	810	238	218
NRM4 200x150x200X	160	150	200	2	160	100	22	200	155	550	450	24	280	400	120	680	76	320	254	254	310	14	260	550	874	238	220

# NOCCHI NRB

## HORIZONTAL CENTRIFUGAL PUMPS WITH BASE-PLATE AND COUPLING (2 AND 4 POLES)

STRONG AND RESISTANT, WIDE RANGE

NRB pumps, centrifugal single stage horizontal, are designed according to DIN24255/EN733 standards, in order to have maximum interchangeability between components. The impeller is dynamically and hydraulically balanced. The shaft is duly oversized to guarantee required stiffness and it is supported by grease lubricated sturdy ball bearings.

### MOTOR

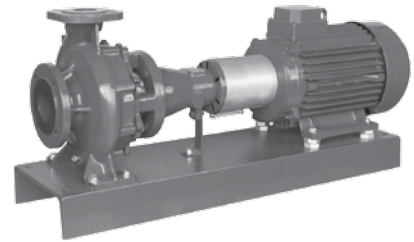
- Enclosed, externally ventilated
- Level of protection IP44
- Class F insulation
- Building B3
- Three phase power supply
- Speed of rotation 2850 rpm
- Suitable for continuous use

### APPLICATIONS

- Aqueducts
- Irrigation
- Water distribution
- Industrial applications

### USAGE LIMITATION

- Temperature of pumped liquid -10°C +130°C
- Capacity up to 330 m3/h
- Dynamic head up to 95m
- Max suction pressure:4 bar
- Max operating pressure:10 bar
- Working temperature: -10°C +130°C



### DESIGN FEATURES

COMPONENT	MATERIAL
Pump body	Cast iron EN GJL 200 (ex G20)
Impeller	Cast iron EN GJL 200 (ex G20) Bronze (on request)
Casing cover	Cast iron EN GJL 200 (ex G20)
Bearing housing	Cast iron EN GJL 200 (ex G20)
Shaft	Stainless steel AISI420
Mechanical seal	Ceramic/graphite/EPDM Silicon carbide/silicon carbide/EPDM

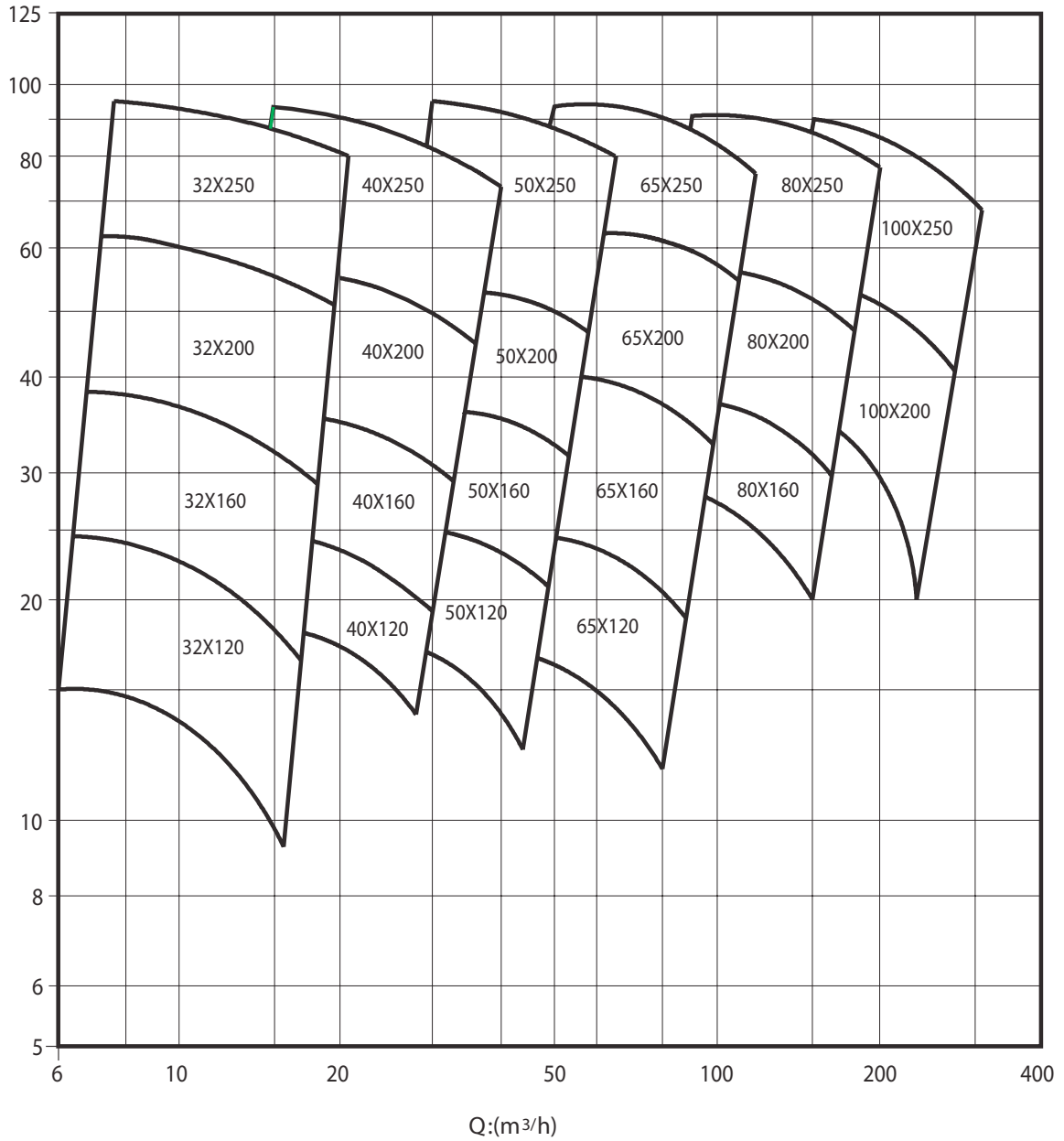


# NOCCHI NRB2

## HORIZONTAL CENTRIFUGAL PUMPS WITH BASE-PLATE AND COUPLING (2 AND 4 POLES)

### HYDRAULIC PERFORMANCE

H  
(m)



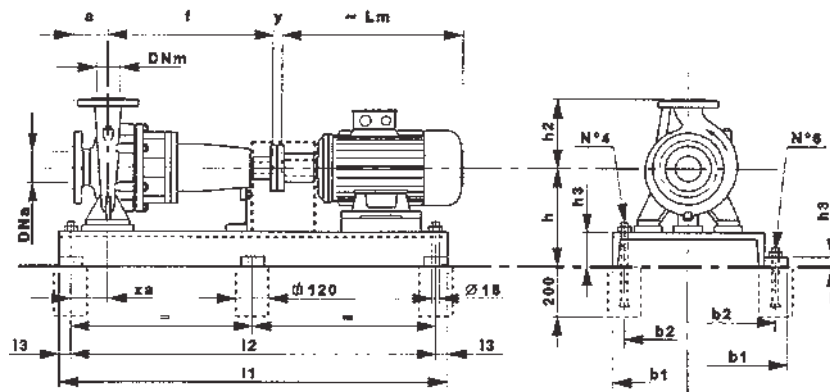
# NOCCHI NRB2 32

## HORIZONTAL CENTRIFUGAL PUMPS WITH BASE-PLATE AND COUPLING (2 AND 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'	100	150	225	250	300	350	400	450
	HP	kW				m³/h	6	9	13,5	15	18	21	24	27
NRB2 32x120C	1	0,75	230/400	1,7	m.c.a. / m.c.w.	15,5	14,5	12	9					
NRB2 32x120B	1,5	1,1	230/400	2,3		21	20	18	15	11,5				
NRB2 32x120A	2	1,5	230/400	3		24,5	23,5	22	19,5	16,5	13			
NRB2 32x160C	3	2,2	230/400	4,3		31,5	30	28	25,5	22				
NRB2 32x160B	4	3	230/400	5,6		34,5	33,5	31,5	29	26				
NRB2 32x160A	4	3	230/400	5,6		38	36,5	35	32,5	30	26,5			
NRB2 32X200C	5,5	4	230/400	7,1		47,5	46,5	44,5	42,5	39	35			
NRB2 32X200B	7,5	5,5	400	9,9		56	55	53,5	51,5	49,5	46	42	37	
NRB2 32X200A	10	7,5	400	13,7		61	60,5	59	57,5	55	52,5	49	45	

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions mm.											Weight (Kg)
	Type	Lm	Y			PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3	h	
NRB2 32x120A	90 S2	302	16	32	50	80	360	140	240	170	850	800	25	197	85	100	65
NRB2 32x120B	80 B2	280	16	32	50	80	360	140	240	170	850	800	25	197	85	100	63
NRB2 32x120C	80 A2	280	16	32	50	80	360	140	240	170	850	800	25	197	85	100	61
NRB2 32x160A	100 L2	369	22	32	50	80	360	140	240	170	850	800	25	217	85	100	80
NRB2 32x160B	90 L2	369	22	32	50	80	360	140	240	170	850	800	25	217	85	100	80
NRB2 32x160C	90 L2	327	16	32	50	80	360	140	240	170	850	800	25	217	85	100	74
NRB2 32X200A	112 MC2	386	22	32	50	80	360	140	240	170	850	800	25	245	85	100	98
NRB2 32X200B	112 MB2	386	22	32	50	80	360	140	240	170	850	800	25	245	85	100	95
NRB2 32X200C	112 M2	386	22	32	50	80	360	140	240	170	850	800	25	245	85	100	95

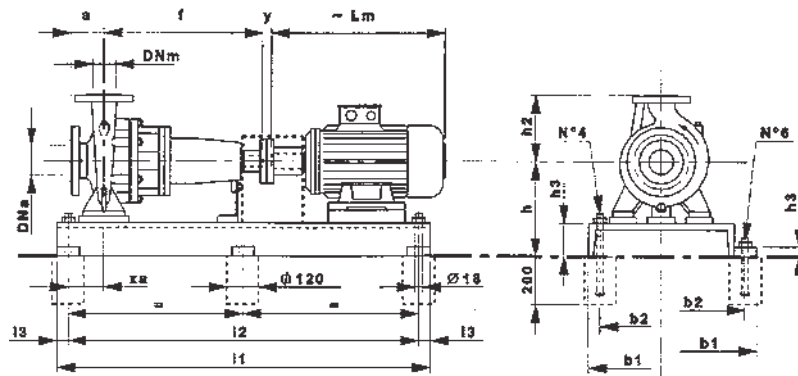
# NOCCHI NRB2 40

## HORIZONTAL CENTRIFUGAL PUMPS WITH BASE-PLATE AND COUPLING (2 AND 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'	200	250	300	350	400	450	500	550	600	650	700	750	
	HP	kW					m <sup>3</sup> /h	12	15	18	21	24	27	30	33	36	39	42	45
NRB2 40x120C	2	1,5	230/400	3	m.c.a. / m.c.w.		18	17,5	17	15,5	14								
NRB2 40x120B	3	2,2	230/400	4,3		21,5	21	20,5	20	19	17,5	15,5							
NRB2 40x120A	4	3	230/400	5,6		25	24,5	24	23,5	23	22	20,5	18,5						
NRB2 40x160C	4	3	230/400	5,6		31	30	29	28	26,5	25	22,5	19,5						
NRB2 40x160B	5,5	4	230/400	7,1		34	33	32	31	30	28,5	26,5	24,5	21,5					
NRB2 40x160A	5,5	4	230/400	7,1		37	36,5	35,5	34,5	33,5	32,5	31	29	26,5					
NRB2 40X200C	7,5	5,5	400	9,9		43,5	43	42	40	38	36	33	29	24					
NRB2 40X200B	10	7,5	400	13,7		52	51	50	49	47	45	43	40	37	33	28			
NRB2 40X200A	15	11	400	19,4		57	56,5	55,5	54	53	51	49	47	44	41	37			
NRB2 40X250C	15	11	400	19,4		73	72	71	70	67,5	65	62	57	51	44				
NRB2 40X250B	20	15	400	26,1		82,5	82	81	80	79	77	75	72	68	63	56			
NRB2 40X250A	25	18,5	400	31,7		93	92,5	92	91	90	88	86	84	81	77	72	67		

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions mm.											Weight (Kg)
	Type	Lm	Y			PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3	h	
NRB2 40x120A	100 L2	369	22	40	65	80	360	140	240	170	850	800	25	197	85	100	75
NRB2 40x120B	90 L2	327	16	40	65	80	360	140	240	170	850	800	25	197	85	100	69
NRB2 40x120C	90 S2	302	16	40	65	80	360	140	240	170	850	800	25	197	85	100	67
NRB2 40x160A	112 M2	386	22	40	65	80	360	160	240	170	850	800	25	217	85	100	91
NRB2 40x160B	112 M2	386	22	40	65	80	360	160	240	170	850	800	25	217	85	100	91
NRB2 40x160C	100 L2	369	22	40	65	80	360	160	240	170	850	800	25	217	85	100	81
NRB2 40X200A	132 MB2	498	24	40	65	100	360	180	280	210	950	900	25	255	95	100	128
NRB2 40X200B	112 MC2	386	22	40	65	100	360	180	280	210	950	900	25	255	95	100	112
NRB2 40X200C	112 MC2	386	22	40	65	100	360	180	280	210	950	900	25	255	95	100	109
NRB2 40X250A	160 L2	645	24	40	65	100	360	225	350	280	1120	1070	25	280	100	100	282
NRB2 40X250B	132 MD2	498	24	40	65	100	360	225	350	280	950	900	25	280	100	100	173
NRB2 40X250C	132 MD2	498	24	40	65	100	360	225	350	280	950	900	25	280	100	100	165

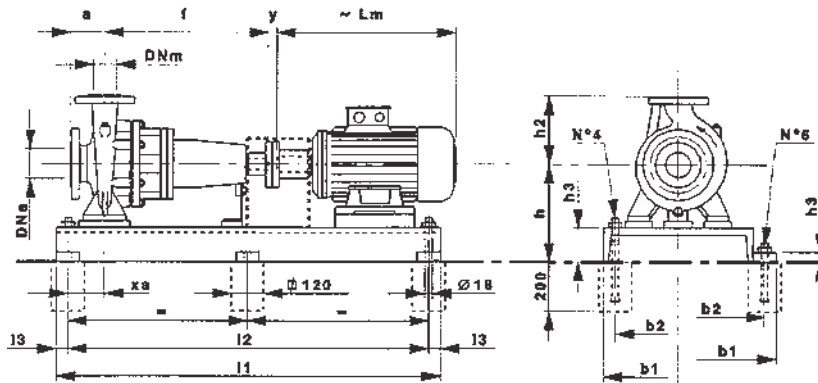
# NOCCHI NRB2 50

## HORIZONTAL CENTRIFUGAL PUMPS WITH BASE-PLATE AND COUPLING (2 AND 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'	400	450	500	600	700	800	900	1000	1100	1200	1300	
	HP	kW				m <sup>3</sup> /h	24	27	30	36	42	48	54	60	66	72	78	
NRB2 50x120C	3	2,2	230/400	4,3	m.c.a./m.c.w.	18	17,5	17	15,5	13,5								
NRB2 50x120B	4	3	230/400	5,6		22	21,5	21	20	18,6	16,5							
NRB2 50x120A	5,5	4	230/400	7,1		25,5	25,2	24,9	24	23	21,5	19,5	17,5					
NRB2 50x160C	5,5	4	230/400	7,1		27,5	27	26,5	25,5	23,5	21							
NRB2 50x160B	7,5	5,5	400	9,9		33	32,5	32	31	29,5	27,5	25,5	22					
NRB2 50x160A	10	7,5	400	13,7		37	36,5	36	35	34	32,5	31	29	26				
NRB2 50X200C	10	7,5	400	13,7		47	46,5	45	43	40	36	31,5						
NRB2 50X200B	15	11	400	19,4		52,5	52	51,5	49,5	46,5	43,5	39,5	35					
NRB2 50X200A	15	11	400	19,4		57,5	57	56,5	55	53	50	46,5	43					
NRB2 50X250D	20	15	400	26,1			70	69,5	67,5	65	61,5	57,5	51					
NRB2 50X250C	25	18,5	400	31,7			77	76,5	75	72,5	69,5	66	61,5	55,5				
NRB2 50X250B	30	22	400	37,8			88	87,5	86	84	82	78,5	74,5	69				
NRB2 50x250A	40	30	400	50,7			94,5	94	93	91,5	89,5	86,5	83,5	80	75,5	70		

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions mm.											Weight (Kg)
	Type	Lm	Y			PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3	h	
NRB2 50x120A	112 M2	386	22	50	65	100	360	160	240	170	850	800	25	217	85	100	90
NRB2 50x120B	100 L2	369	22	50	65	100	360	160	240	170	850	800	25	217	85	100	80
NRB2 50x120C	90 L2	327	16	50	65	100	360	160	240	170	850	800	25	217	85	100	74
NRB2 50x160A	112 MC2	386	22	50	65	100	360	180	280	210	950	900	25	255	95	100	108
NRB2 50x160B	112 MB2	386	22	50	65	100	360	180	280	210	950	900	25	255	95	100	105
NRB2 50x160C	112 M2	386	22	50	65	100	360	180	280	210	950	900	25	255	95	100	105
NRB2 50X200A	132 MC2	498	24	50	65	100	360	200	280	210	950	900	25	255	95	100	134
NRB2 50X200B	132 MB2	498	24	50	65	100	360	200	280	210	950	900	25	255	95	100	129
NRB2 50X200C	100 L2	386	22	50	65	100	360	200	280	210	950	900	25	255	95	100	113
NRB2 50X250A	112 MC2	775	28	50	65	100	360	225	400	330	1320	1270	25	310	110	100	394
NRB2 50X250B	200 LA2	670	28	50	65	100	360	225	400	330	1120	1070	25	290	110	100	316
NRB2 50X250C	180 M2	645	24	50	65	100	360	225	350	280	1120	1070	25	280	100	100	283
NRB2 50x250D	160 L2	498	24	50	65	100	360	225	350	280	950	900	25	280	100	100	185

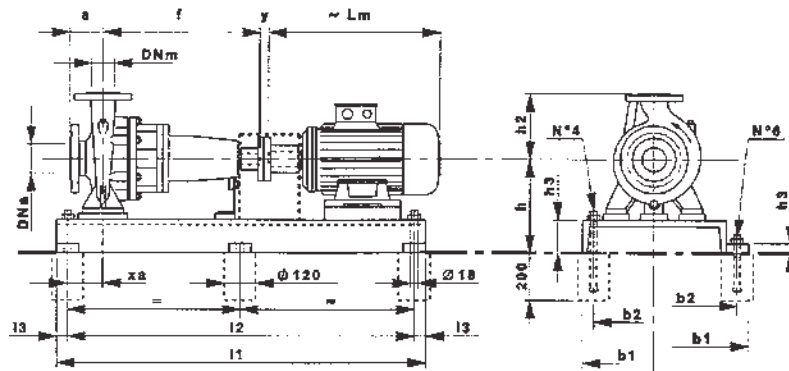
# NOCCHI NRB2 65

## HORIZONTAL CENTRIFUGAL PUMPS WITH BASE-PLATE AND COUPLING (2 AND 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800	2000	2250		
	HP	kW					m³/h	36	42	48	54	60	66	72	78	84	90	96	108	120	135	
NRB2 65x120C	5,5	4	230/400	7,1	m.c.a. / m.c.w.	18	17,6	17,2	16,6	15,8	15	14	12,5									
NRB2 65x120B	7,5	5,5	400	9,9		21,4	21,1	20,5	20,3	19,8	19,2	18,4	17,5	16,4								
NRB2 65x120A	10	7,5	400	13,7			23,6	23,4	23	22,6	22	21,5	20,7	20	19	17,6						
NRB2 65x160C	15	11	400	19,4			30,8	30	28,5	27,5	26,5	25,5	24,5	22,5	21							
NRB2 65x160B	15	11	400	19,4			33,8	33	32,5	32	31,5	30,5	29,5	28,5	27	25,5	22,5					
NRB2 65x160A	20	15	400	26,1			40,8	40	39,5	39	38,5	38	37,5	36,5	35,5	34,5	32	29				
NRB2 65X200C	25	18,5	400	31,7					51	50,6	50,4	50,2	50,1	49,7	48,6	47,5	46	43	39			
NRB2 65X200B	30	22	400	37,8					57,5	57	56,6	56,5	56,3	56	55,5	54,5	53,5	50,5	47,5	42,5		
NRB2 65X200A	40	30	400	50,7					62	61,7	61,5	61,3	61,1	61	60,5	60	59	57,5	55	50		
NRB2 65X250C	40	30	400	50,7					72	71,5	71	70	68,5	67	65	63,3	61,2	57				
NRB2 65X250B	50	37	400	62,4					82,5	82	81,5	80,5	79,5	78,5	77	75,5	70	70	65,5	59,5		
NRB2 65X250A	60	45	400	75,9					92,5	92	91,5	91	90	89	88	87	86	82	78	72,5		

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions mm.											Weight (Kg)
	Type	Lm	Y			PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3	h	
NRB2 65x120A	112 MC2	386	22	65	80	100	360	180	280	210	950	900	25	255	95	100	106
NRB2 65x120B	112 MB2	386	22	65	80	100	360	180	280	210	950	900	25	255	95	100	106
NRB2 65x120C	112 M2	386	22	65	80	100	360	180	280	210	950	900	25	255	95	100	106
NRB2 65x160A	132 MD2	498	24	65	80	100	360	200	280	210	950	900	25	255	95	100	142
NRB2 65x160B	132MC2	498	24	65	80	100	360	200	280	210	950	900	25	255	95	100	134
NRB2 65x160C	132 MB2	498	24	65	80	100	360	200	280	210	950	900	25	255	95	100	129
NRB2 65x200A	200 LA2	775	28	65	80	100	360	225	400	330	1320	1270	25	310	110	100	388
NRB2 65x200B	180 M2	670	28	65	80	100	360	225	400	330	1120	1070	25	290	110	100	310
NRB2 65x200C	160 L2	815	24	65	80	100	360	225	350	280	1120	1070	25	280	100	100	277
NRB2 65x250A	225 M2	775	33	65	80	100	470	250	580	540	1400	1300	50	335	20	100	543
NRB2 65x250B	200 LB2	815	28	65	80	100	470	250	400	330	1320	1270	25	310	110	125	419
NRB2 65x250C	200 LA2	775	28	65	80	100	470	250	400	330	1320	1270	25	310	110	125	399

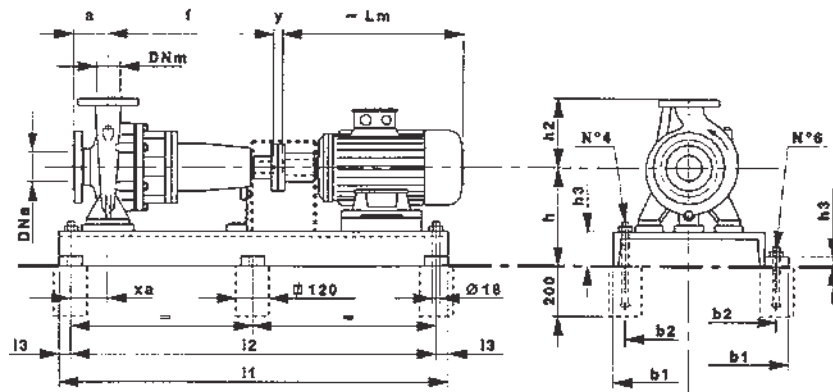
# NOCCHI NRB2 80

## HORIZONTAL CENTRIFUGAL PUMPS WITH BASE-PLATE AND COUPLING (2 AND 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'	1200	1300	1400	1500	1600	1800	2000	2250	2500	2750	3000	3250	3500	4000		
	HP	kW				m³/h	72	78	84	90	96	108	120	135	150	165	180	195	210	240		
NRB2 80x160C	15	11	400	19,4	m.c.a. / m.c.w.	28,5	28	27,5	27	26,5	26	24,8	22,5	20								
NRB2 80x160B	20	15	400	26,1		33,6	33,5	33,4	33	32,5	32	31	29,5	28	24,5	23						
NRB2 80x160A	25	18,5	400	31,7		38	37,8	37,6	37,2	36,8	36,5	35,5	34,5	33	31,5	29	27					
NRB2 80x200C	30	22	400	37,8		44,6	44,5	44	43,5	43	42	40,5	38,5	36,5	33,5	31						
NRB2 80x200B	40	30	400	50,7		53	52,5	52	51,5	51	50,5	49,5	48	46	44	41,5	38,5					
NRB2 80x200A	50	37	400	62,4		58,5	58	57,5	57	56,5	56	55,5	54	52,5	50,5	48,5	46	43,5				
NRB2 80x250D	50	37	400	62,4					68	67,5	66,5	65	62,5	60	56	51						
NRB2 80x250C	60	45	400	75,9					74,6	74,5	73,5	72,5	70,5	68	65	61,5	57,5	53				
NRB2 80x250B	75	55	400	92					84	83,5	83	82	81	78,5	76	73,5	70	66				
NRB2 80x250A	100	75	400	127					90,5	90	89,5	89	87,5	86	84	81,5	78,5	75	66			

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions mm.											Weight (Kg)
	Type	Lm	Y			PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3	h	
NRB2 80x160A	160 L2	645	24	80	100	125	360	350	280	210	1120	1070	25	280	100	100	278
NRB2 80x160B	132 MD2	498	24	80	100	125	360	350	280	210	950	900	25	280	100	100	180
NRB2 80x160C	132 MC2	498	24	80	100	125	360	350	280	210	950	900	25	280	100	100	172
NRB2 80x200A	200 LB2	775	28	80	100	125	470	400	330	210	1320	1270	25	310	110	100	424
NRB2 80x200B	200 LA2	775	28	80	100	125	470	400	330	210	1320	1270	25	310	110	100	404
NRB2 80x200C	180 M2	670	28	80	100	125	470	400	330	210	1320	1270	25	290	110	100	341
NRB2 80x250A	280 S2	1000	33	80	100	125	470	660	620	330	1600	1500	50	415	20	100	833
NRB2 80x250B	250 L2	930	33	80	100	125	470	660	620	330	1600	1500	50	390	20	100	683
NRB2 80x250C	225 M2	815	33	80	100	125	470	580	54	280	1400	1300	50	335	20	100	553
NRB2 80x250D	200 LB2	775	28	80	100	125	470	330	330	540	1320	1320	25	310	110	125	5429

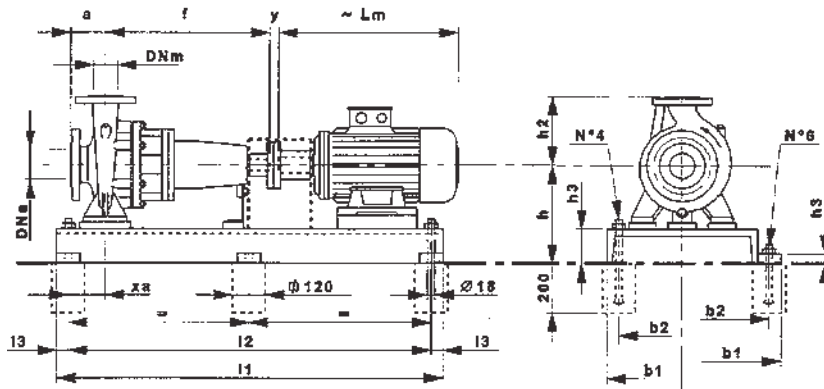
# NOCCHI NRB2 100

## HORIZONTAL CENTRIFUGAL PUMPS WITH BASE-PLATE AND COUPLING (2 AND 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In [A] 3X440	Q	L/1'	2000	2250	2500	2750	3000	3250	3500	4000	4500	5000	5500	
	HP	kW					m³/h	120	135	150	165	180	195	210	240	270	300	330
NRB2 100x200D	30	22	400	37,8	m.c.a. / m.c.w.		37,5	36,5	35	33,5	31,5	29	27	20,5				
NRB2 100x200C	40	30	400	50,7		45	44,5	43,5	42,5	41	39,5	37,5	33	27				
NRB2 100x200B	50	37	400	62,4		50,5	50	49,5	48,5	47,5	46,5	45	41,5	36,5	31			
NRB2 100x200A	60	45	400	75,9		55,5	55	54,5	54	53	52	51	48	43,5	38			
NRB2 100x250D	60	45	400	75,9		66,5	66	65	63,5	61,5	58,5	56	49,5					
NRB2 100x250C	75	55	400	92		73	72,5	72	71	69,5	68	66	61	53,5				
NRB2 100x250B	100	75	400	127		83	82,8	82,5	82	81	79,5	78	74	70	63	55		
NRB2 100x250A	125	90	400	152		89,5	89,3	89	88,2	87,5	86,5	85,5	82,5	78	73	65		

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site



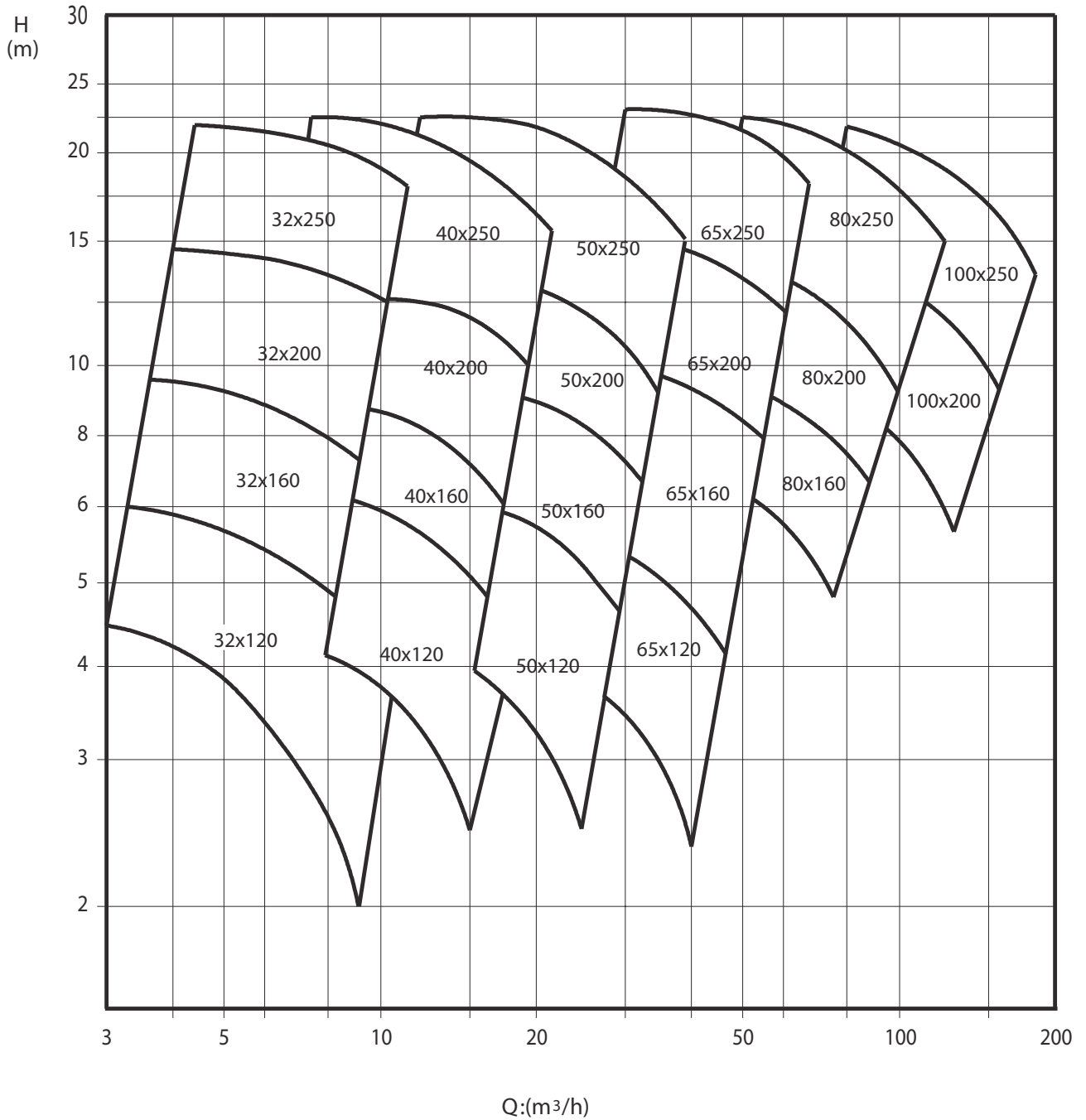
### TABLE OF SIZES AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions mm.											Weight (Kg)
	Type	Lm	Y			PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3	h	
NRB2 100x200A	225 M2	815	33	100	125	125	470	280	580	540	1400	1300	50	355	20	100	550
NRB2 100x200B	200 LB2	775	28	100	125	125	470	280	400	330	1320	1270	25	310	110	125	426
NRB2 100x200C	200 LA2	775	28	100	125	125	470	280	400	330	1320	1270	25	310	110	125	406
NRB2 100x200D	180 M2	670	28	100	125	125	470	280	400	330	1320	1270	25	310	110	125	365
NRB2 100x250A	280 M2	1050	33	100	125	140	470	280	660	620	1600	1500	50	415	20	100	883
NRB2 100x250B	280 S2	1000	33	100	125	140	470	280	660	620	1600	1500	50	415	20	100	837
NRB2 100x250C	250 M2	930	33	100	125	140	470	280	660	620	1600	1500	50	390	20	100	695
NRB2 100x250D	225 M2	815	33	100	125	140	470	280	580	540	1400	1300	50	355	20	100	557

# NOCCHI NRB4

## HORIZONTAL CENTRIFUGAL PUMPS WITH BASE-PLATE AND COUPLING (2 AND 4 POLES)

### HYDRAULIC PERFORMANCE





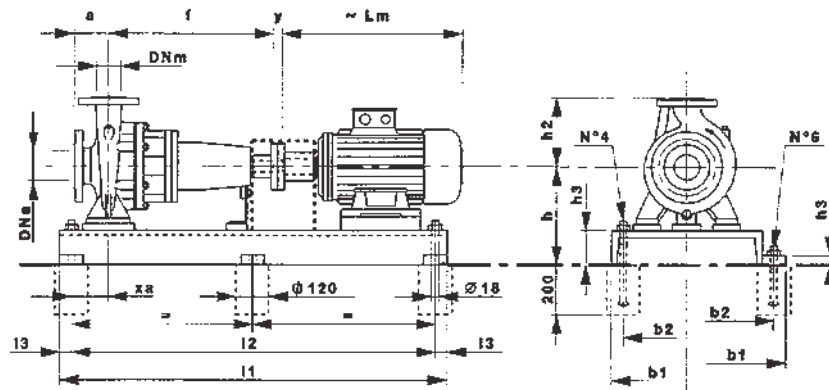
# NOCCHI NRB4 32

## HORIZONTAL CENTRIFUGAL PUMPS WITH BASE-PLATE AND COUPLING (2 AND 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'	50	75	100	125	150	175	200	225	250	
	HP	kW					m³/h	3	4,5	6	7,5	9	11	12	14	15
NRB4 32x120C	0,33	0,25	230/400	0,9	m.c.a./m.c.w.	4,5	4,3	3,8	3	2,1						
NRB4 32x120B	0,33	0,25	230/400	0,9		5,4	5,2	4,8	4,2	3,4	2,5					
NRB4 32x120A	0,33	0,25	230/400	0,9		6,2	6	5,8	5,3	4,6	3,8	2,9				
NRB4 32x160C	0,33	0,25	230/400	0,9		7,8	7,6	7,2	6,5	5,6	4,6					
NRB4 32x160B	0,5	0,37	230/400	1,2		8,6	7,9	8	7,5	6,7	5,7	4,6				
NRB4 32x160A	0,5	0,37	230/400	1,2		9,4	9,2	8,9	8,4	7,7	6,8	5,8				
NRB4 32x200C	0,75	0,55	230/400	1,2			11,2	10,8	10,2	9,5	8,6	7,5	6,5			
NRB4 32x200B	1	0,75	230/400	1,7			13,2	13	12,5	11,8	11,1	10,3	9,2	8,2		
NRB4 32x200A	1,5	1,1	230/400	2,5			14,5	14,2	13,8	13,3	12,6	11,8	10,9	10		

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions mm.											Weight (Kg)
	Type	Lm	Y			PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3	h	
NRB4 32x120A	71 A4	244	16	32	50	80	360	140	240	170	850	800	25	197	85	100	59
NRB4 32x120B	71 A4	244	16	32	50	80	360	140	240	170	850	800	25	197	85	100	59
NRB4 32x120C	71 A4	244	16	32	50	80	360	140	240	170	850	800	25	197	85	100	59
NRB4 32x160A	71 B4	244	16	32	50	80	360	160	240	170	850	800	25	217	85	100	66
NRB4 32x160B	71 B4	244	16	32	50	80	360	160	240	170	850	800	25	217	85	100	66
NRB4 32x160C	71 B4	244	16	32	50	80	360	160	240	170	850	800	25	217	85	100	66
NRB4 32x200A	90 S4	302	16	32	50	80	360	180	240	170	850	800	25	245	85	100	77
NRB4 32x200B	80 B4	280	16	32	50	80	360	180	240	170	850	800	25	245	85	100	75
NRB4 32x200C	80 A4	280	16	32	50	80	360	180	240	170	850	800	25	245	85	100	73

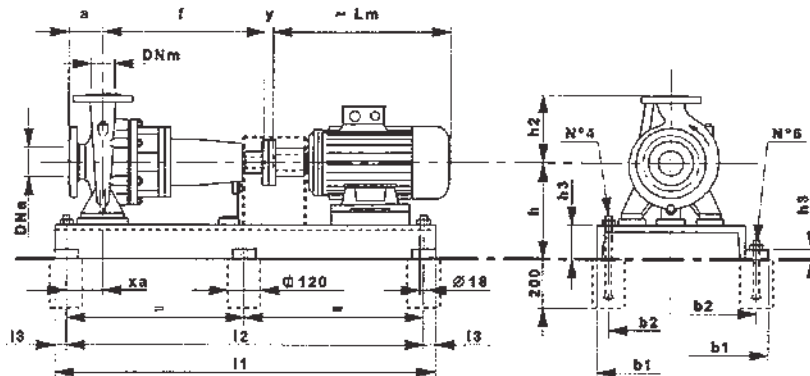
# NOCCHI NRB4 40

## HORIZONTAL CENTRIFUGAL PUMPS WITH BASE-PLATE AND COUPLING (2 AND 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In [A] 3X440	Q	L/1'	100	125	150	175	200	225	250	275	300	350	400	450	
	HP	kW				m³/h	6	7,5	9	10,5	12	13,5	15	16,5	18	21	24	27	
NRB4 40x120C	0,33	0,25	230/400	0,9	m.c.a./m.c.w.	4,6	4,5	4,3	4	3,7	3,3	2,5							
NRB4 40x120B	0,5	0,37	230/400	1,2		5,4	5,3	5,2	5	4,8	4,5	4,1	3,5						
NRB4 40x120A	0,5	0,37	230/400	1,2		6,3	6,2	6,1	6	5,8	5,5	5,2	4,9	4,4					
NRB4 40x160C	0,5	0,37	230/400	1,2		7,3	7	6,7	6,4	6	5,5	4,9	4,3						
NRB4 40x160B	0,75	0,55	230/400	1,2		8	7,8	7,5	7,2	6,8	6,4	5,9	5,3	4,7					
NRB4 40x160A	0,75	0,55	230/400	1,2		8,8	8,6	8,4	8,1	7,7	7,3	6,8	6,3	5,8					
NRB4 40x200C	1	0,75	230/400	1,7			11	10,5	10	9,4	8,5	7,6	6,6	5,4					
NRB4 40x200B	1,5	1,1	230/400	2,5			12,8	12,5	12,1	11,6	11	10,2	9,3	8,4	6,2				
NRB4 40x200A	1,5	1,1	230/400	2,5			14	13,8	13,5	13	12,4	11,8	11	10,2	8,3				
NRB4 40x250C	2	1,5	230/400	3,2			17,2	17	16,6	16	15,3	14,5	14	13	10,6				
NRB4 40x250B	3	2,2	230/400	4,6			19,7	19,5	19,2	18,6	18	17,5	16,8	16	14	11,5			
NRB4 40x250A	3	2,2	230/400	4,6			22,3	22	21,7	21,4	21	20,3	19,6	19	17,5	15,5	13		

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions mm.										Weight (Kg)	
	Type	Lm	Y			PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3		h
NRB4 40x120A	71 B4	244	16	40	65	80	360	140	240	170	850	800	25	197	85	100	62
NRB4 40x120B	71 B4	244	16	40	65	80	360	140	240	170	850	800	25	197	85	100	62
NRB4 40x120C	71 A4	244	16	40	65	80	360	140	240	170	850	800	25	197	85	100	61
NRB4 40x160A	80 A4	280	16	40	65	80	360	160	240	170	850	800	25	217	85	100	69
NRB4 40x160B	80 A4	280	16	40	65	80	360	160	240	170	850	800	25	217	85	100	69
NRB4 40x160C	71 B4	244	16	40	65	80	360	160	240	170	850	800	25	217	85	100	67
NRB4 40x200CA	90 S4	302	16	40	65	100	360	180	280	210	950	900	25	255	95	100	91
NRB4 40x200B	90 S4	302	16	40	65	100	360	180	280	210	950	900	25	255	95	100	91
NRB4 40x200C	80 B4	280	16	40	65	100	360	180	280	210	950	900	25	255	95	100	89
NRB4 40x250A	100 LA4	369	22	40	65	100	360	225	350	280	950	900	25	280	100	100	131
NRB4 40x250B	100 LA4	369	22	40	65	100	360	225	350	280	950	900	25	280	100	100	131
NRB4 40x250C	90 L4	327	16	40	65	100	360	225	350	280	950	900	25	280	100	100	124

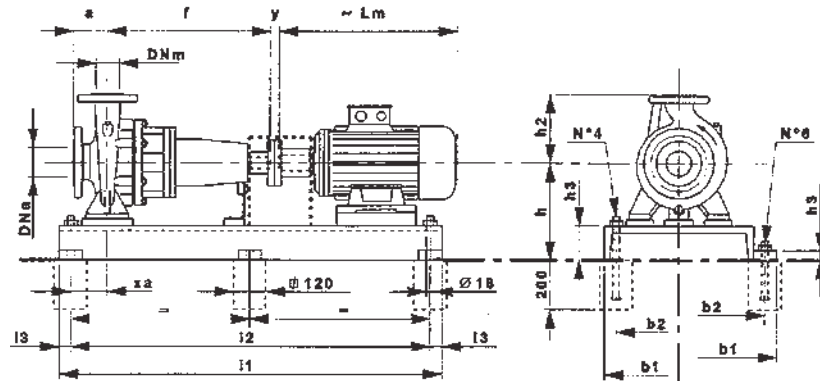
# NOCCHI NRB4 50

## HORIZONTAL CENTRIFUGAL PUMPS WITH BASE-PLATE AND COUPLING (2 AND 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'	150	200	250	300	350	400	450	500	550	600	700	
	HP	kW					m³/h	9	12	15	18	21	24	27	30	33	36	42
NRB4 50x120C	0,33	0,25	230/400	0,9	m.c.a./m.c.w.	4,4	4,2	4	3,6	3,2	2,6							
NRB4 50x120B	0,5	0,37	230/400	1,2		5,3	5,1	4,9	4,7	4,4	4	3,5						
NRB4 50x120A	0,75	0,55	230/400	1,2		6,3	6,1	5,9	5,7	5,5	5,2	4,8						
NRB4 50x160C	0,75	0,55	230/400	1,2			6,8	6,6	6,3	5,9	5,3	4,4						
NRB4 50x160B	1	0,75	230/400	1,7			8	7,8	7,6	7,4	7	6,4	5,6					
NRB4 50x160A	1,5	1,1	230/400	2,5			9	8,8	8,6	8,4	8,2	7,7	7,1	6,4				
NRB4 50x200C	1,5	1,1	230/400	2,5			11,6	11,2	10,5	9,6	8,6	7,4	6,2					
NRB4 50x200B	1,5	1,1	230/400	2,5			13	12,6	12,2	11,3	10,4	9,4	8,2					
NRB4 50x200A	2	1,5	230/400	3,2			14,3	14,1	13,7	13,1	12,3	11,4	10,2	9	7,8			
NRB4 50x250D	3	2,2	230/400	4,6			16,8	16,4	15,8	15,1	14,2	13,2	11,9	10,5				
NRB4 50x250C	3	2,2	230/400	4,6			18,4	18	17,6	17	16,2	15,2	14,2	12,8	11,5			
NRB4 50x250B	4	3	230/400	6,1			21	20,6	20,2	19,7	19,1	18,3	17,4	16,4	15,2			
NRB4 50x250A	4	3	230/400	6,1			22,5	22,3	22	21,5	20,9	20,2	19,4	18,5	17,4	14,7		

MEI ≥ 0,1 - Benchmark MEI > 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions mm.										Weight (Kg)	
	Type	Lm	Y			PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3		h
NRB4 50x120A	80 A4	280	16	50	65	100	360	160	240	170	850	800	25	217	85	100	68
NRB4 50x120B	71 B4	244	16	50	65	100	360	160	240	170	850	800	25	217	85	100	66
NRB4 50x120AC	71 A4	244	16	50	65	100	360	160	240	170	850	800	25	217	85	100	65
NRB4 50x160A	90 S4	302	16	50	65	100	360	180	280	210	950	900	25	255	95	100	87
NRB4 50x160B	80 B4	280	16	50	65	100	360	180	280	210	950	900	25	255	95	100	85
NRB4 50x160C	80 A4	280	16	50	65	100	360	180	280	210	950	900	25	255	95	100	83
NRB4 50x200A	90 L4	327	16	50	65	100	360	200	280	210	950	900	25	255	95	100	93
NRB4 50x200B	90 S4	302	16	50	65	100	360	200	280	210	950	900	25	255	95	100	92
NRB4 50x200C	90 S4	302	16	50	65	100	360	200	280	210	950	900	25	255	95	100	92
NRB4 50x250A	100 LB4	369	22	50	65	100	360	225	350	280	950	900	25	280	100	100	135
NRB4 50x250B	100 LB4	369	22	50	65	100	360	225	350	280	950	900	25	280	100	100	135
NRB4 50x250C	100 LA4	369	22	50	65	100	360	225	350	280	950	900	25	280	100	100	132
NRB4 50x250D	100 LA4	369	22	50	65	100	360	225	350	280	950	900	25	280	100	100	132

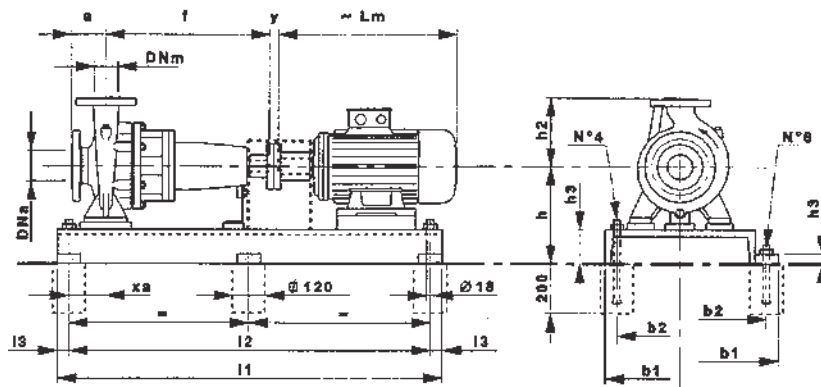
# NOCCHI NRB4 65

## HORIZONTAL CENTRIFUGAL PUMPS WITH BASE-PLATE AND COUPLING (2 AND 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In [A] 3X440	Q	L/1'	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1200	1400		
	HP	kW				m³/h	15	18	21	24	27	30	33	36	42	48	54	60	66	72	84		
NRB4 65x120C	0,75	0,55	230/400	1,2	m.c.a./m.c.w.	4,2	4	3,9	3,8	3,7	3,5	3,3	3										
NRB4 65x120B	0,75	0,55	230/400	1,2		5	4,8	4,7	4,6	4,5	4,4	4,3	4,2	3,7									
NRB4 65x120A	1	0,75	230/400	1,7			5,6	5,5	5,4	5,3	5,2	5,1	4,9	4,5	4								
NRB4 65x160C	1,5	1,1	230/400	2,5			7,7	7,6	7,5	7,3	7,1	6,8	6,5	5,7	4,7								
NRB4 65x160B	1,5	1,1	230/400	2,5			8,5	8,4	8,3	8,2	8	7,8	7,6	6,9	5,9	4,9							
NRB4 65x160A	2	1,5	230/400	3,2			10,2	10,1	10	9,9	9,8	9,6	9,4	9	8,4	7,5	6,5						
NRB4 65x200C	3	2,2	230/400	4,6					12,3	12,2	12,1	12	11,9	11,5	10,8	10	9						
NRB4 65x200B	4	3	230/400	6,1						15	14,9	13,5	13,4	13,3	13,1	12,6	11,9	11	10				
NRB4 65x200A	4	3	230/400	6,1						13,7	13,6	14,8	14,7	14,6	14,4	14,1	13,5	12,8	12	11			
NRB4 65x250C	4	3	230/400	6,1								17,2	17	16,6	15,7	14,6	13,2	1,6					
NRB4 65x250B	5,5	4	230/400	7,7								20	19,7	19,4	18,8	18	16,8	15,6	14,3	12,5			
NRB4 65x250A	7,5	5,5	400	10,9								23	22,8	22,6	22,1	21,5	20,7	19,7	18,6	17,4	14		

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions mm.											Weight (Kg)
	Type	Lm	Y			PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3	h	
NRB4 65x120A	80 B4	280	16	65	80	100	360	180	280	210	950	900	25	255	85	100	86
NRB4 65x120B	80 A4	280	16	65	80	100	360	180	280	210	950	900	25	255	85	100	84
NRB4 65x120C	80 A4	280	16	65	80	100	360	180	280	210	950	900	25	255	85	100	84
NRB4 65x160A	90 L4	327	16	65	80	100	360	200	280	210	950	900	25	255	85	100	93
NRB4 65x160B	90 S4	302	16	65	80	100	360	200	280	210	950	900	25	255	85	100	92
NRB4 65x160C	90 S4	302	16	65	80	100	360	200	280	210	950	900	25	255	85	100	92
NRB4 65x200A	100 LB4	369	22	65	80	100	360	225	350	280	950	900	25	280	95	100	129
NRB4 65x200B	100 LB4	369	22	65	80	100	360	225	350	280	950	900	25	280	95	100	129
NRB4 65x200C	100 LA4	369	22	65	80	100	360	225	350	280	950	900	25	280	95	100	126
NRB4 65x250A	112 MC4	386	22	65	80	100	470	225	400	330	1120	1070	25	310	100	125	181
NRB4 65x250B	112 M4	386	22	65	80	100	470	250	400	330	1120	1070	25	310	100	125	181
NRB4 65x250C	100 LB4	369	22	65	80	100	470	250	400	330	1120	1070	25	310	100	125	172

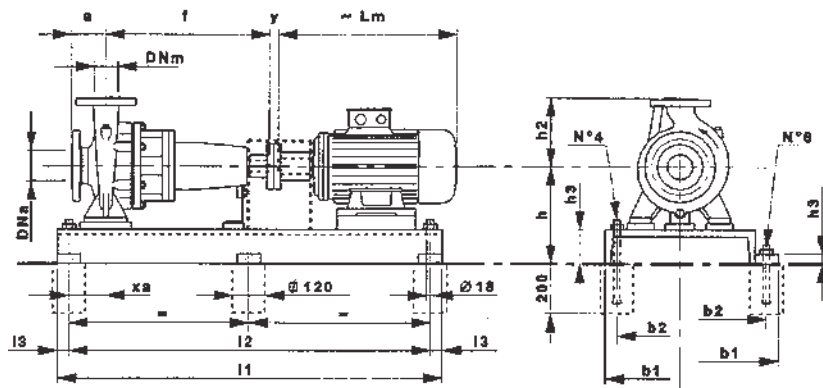
# NOCCHI NRB4 80

## HORIZONTAL CENTRIFUGAL PUMPS WITH BASE-PLATE AND COUPLING (2 AND 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1800	2000	2250	
	HP	kW				m³/h	36	42	48	54	60	66	72	78	84	90	96	108	120	135	
NRB4 80x160C	2	1,5	230/400	3,2	m.c.a. / m.c.w.	7,1	6,9	6,6	6,3	6	5,7	5,2	4,8								
NRB4 80x160B	3	2,2	230/400	4,6		8,5	8,3	8,1	7,9	7,6	7,3	6,9	6,5	6,1	5,6						
NRB4 80x160A	3	2,2	230/400	4,6		9,6	9,4	9,2	9	8,8	8,5	8,2	7,9	7,5	7,1	6,6					
NRB4 80x200C	3	2,2	230/400	4,6			10,4	10	9,8	9,6	9	8,6	8	7,2	6,5						
NRB4 80x200B	4	3	230/400	6,1			12,5	12,3	12,1	11,8	11,4	11	10,6	10	9,4	8,8	7,2				
NRB4 80x200A	5,5	4	230/400	7,7			14,2	14	13,8	13,5	13,1	12,7	12,2	11,7	11,2	10,6	9,2	7,6			
NRB4 80x250D	7,5	5,5	400	10,9			16,3	16	15,7	15,4	14,9	14,4	13,7	13	12,3	11,5					
NRB4 80x250C	7,5	5,5	400	10,9			17,9	17,7	17,4	17	16,7	16,2	15,7	15	14,4	13,7	11,9				
NRB4 80x250B	10	7,5	400	14,5			20,5	20,3	20	19,7	19,4	19	18,6	18,1	17,6	17	15,6	13,9			
NRB4 80x250A	10	7,5	400	14,5			22,2	22	21,7	21,5	21,1	20,8	20,4	20	19,5	19	17,6	16,2	14		

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions mm.											Weight (Kg)
	Type	Lm	Y			PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3	h	
NRB4 80x160A	100 LA4	369	22	80	100	125	360	225	350	280	950	900	25	280	100	100	127
NRB4 80x160B	100 LA4	369	22	80	100	125	360	225	350	280	950	900	25	280	100	100	127
NRB4 80x160C	90 L4	327	16	80	100	125	360	225	350	280	950	900	25	280	100	100	120
NRB4 80x200A	112 M4	386	22	80	100	125	470	250	350	280	1120	1070	25	280	100	100	166
NRB4 80x200B	112 M4	386	22	80	100	125	470	250	350	280	1120	1070	25	280	100	100	166
NRB4 80x200C	100 LB4	369	22	80	100	125	470	250	350	280	1120	1070	25	280	100	100	156
NRB4 80x250A	132 MA4	498	24	80	100	125	470	280	400	330	1120	1070	25	310	110	125	213
NRB4 80x250B	132 MA4	498	24	80	100	125	470	280	400	330	1120	1070	25	310	110	125	213
NRB4 80x250C	112 MC4	386	22	80	100	125	470	280	400	330	1120	1070	25	310	110	125	191
NRB4 80x250D	112 MC4	386	22	80	100	125	470	280	400	330	1120	1070	25	310	110	125	191

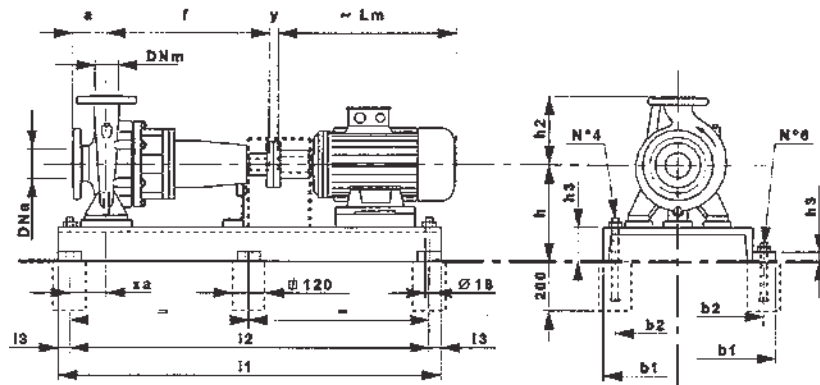
# NOCCHI NRB4 100

## HORIZONTAL CENTRIFUGAL PUMPS WITH BASE-PLATE AND COUPLING (2 AND 4 POLES)

### PUMP PERFORMANCE

MOD.	P2		Volt	In (A) 3X440	Q	L/1'	900	1000	1100	1200	1300	1400	1500	1600	1800	2000	2250	2500	2750	3000		
	HP	kW					m <sup>3</sup> /h	54	60	66	72	78	84	90	96	108	120	135	150	165	180	
NRB4 100x200D	4	3	230/400	6,1	m.c.a./m.c.w.		9,8	9,6	9,4	9,1	8,8	8,5	8,1	7,7	6,9	6						
NRB4 100x200C	5,5	4	230/400	7,7			11,8	11,6	11,4	11,2	11	10,8	10,5	10,2	9,4	8,6	7,5					
NRB4 100x200B	7,5	5,5	400	10,9			13,2	13,1	12,9	12,7	12,5	12,3	12	11,7	11,1	10,3	9,3	8,2				
NRB4 100x200A	7,5	5,5	400	10,9			14,4	14,3	14,2	14	13,8	13,6	13,4	13,2	12,6	12	11	9,8	8,5			
NRB4 100x250D	7,5	5,5	400	10,9				16,4	16,2	15,9	15,6	15,3	14,9	14,4	13,2	11,9	9,8					
NRB4 100x250C	10	7,5	400	14,5				18	17,8	17,6	17,4	17,1	16,8	16,4	15,3	14,2	12,4	10,4				
NRB4 100x250B	15	11	400	20,7				20,4	20,3	20,2	20	19,8	19,6	19,3	18,6	17,7	16,2	14,5	12,4			
NRB4 100x250A	15	11	400	20,7				22	21,9	21,8	21,7	21,6	21,4	21,1	20,4	19,7	18,5	17	15	12,8		

MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)  
For efficiency characteristics see [www.nocchi.it](http://www.nocchi.it) web site



### TABLE OF SIZES AND WEIGHTS

MOD.	Motor			DNm	DNa	Dimensions mm.											Weight (Kg)
	Type	Lm	Y			PN16 mm	PN16 mm	a	f	h2	b1	b2	l1	l2	l3	h	
NRB4 100x200A	112 MC4	386	22	100	125	125	470	280	400	330	1120	1070	25	310	110	125	188
NRB4 100x200B	112 MC4	386	22	100	125	125	470	280	400	330	1120	1070	25	310	110	125	188
NRB4 100x200C	112 M4	386	22	100	125	125	470	280	400	330	1120	1070	25	310	110	125	188
NRB4 100x200D	100 LB4	369	22	100	125	125	470	280	400	330	1120	1070	25	310	110	125	179
NRB4 100x250A	132 MB4	498	24	100	125	140	470	280	400	330	1120	1070	25	355	110	125	227
NRB4 100x250B	132 MB4	498	24	100	125	140	470	280	400	330	1120	1070	25	355	110	125	227
NRB4 100x250C	132 MA4	498	24	100	125	140	470	280	400	330	1120	1070	25	355	110	125	225
NRB4 100x250D	112 MC4	386	22	100	125	140	470	280	400	330	1120	1070	25	355	110	125	203

# NOCCHI CM

## HORIZONTAL SINGLE-STAGE CENTRIFUGAL PUMPS



SELF PRIMING, STRONG AND RESISTANT, HIGH HYDRAULIC PERFORMANCE

The CM series single impeller centrifugal pumps are silent and have a high hydraulic efficiency.

### APPLICATIONS

- Pumping from wells for irrigation
- Booster systems
- Domestic autoclaves
- Washing systems

### USAGE LIMITATION

- Type of liquid: non-abrasive clear or slightly cloudy water
- Maximum liquid temperature 90°C (model CM 90/22 50°C)
- Maximum recommended suction height 5 m with foot valve
- Maximum operating pressure:
- 6 bar for models HP 0.5 - 0.75
- 8 bar for models HP 1 - 1.5 - 2

### MOTOR

- Enclosed, externally ventilated
- Level of protection IP 44
- Class F insulation
- Single phase power supply with capacitor permanently activated and thermal protection built into the motor winding
- Three phase power supply with external protection provided by the user
- Speed of rotation 2850 rpm
- Suitable for continuous use



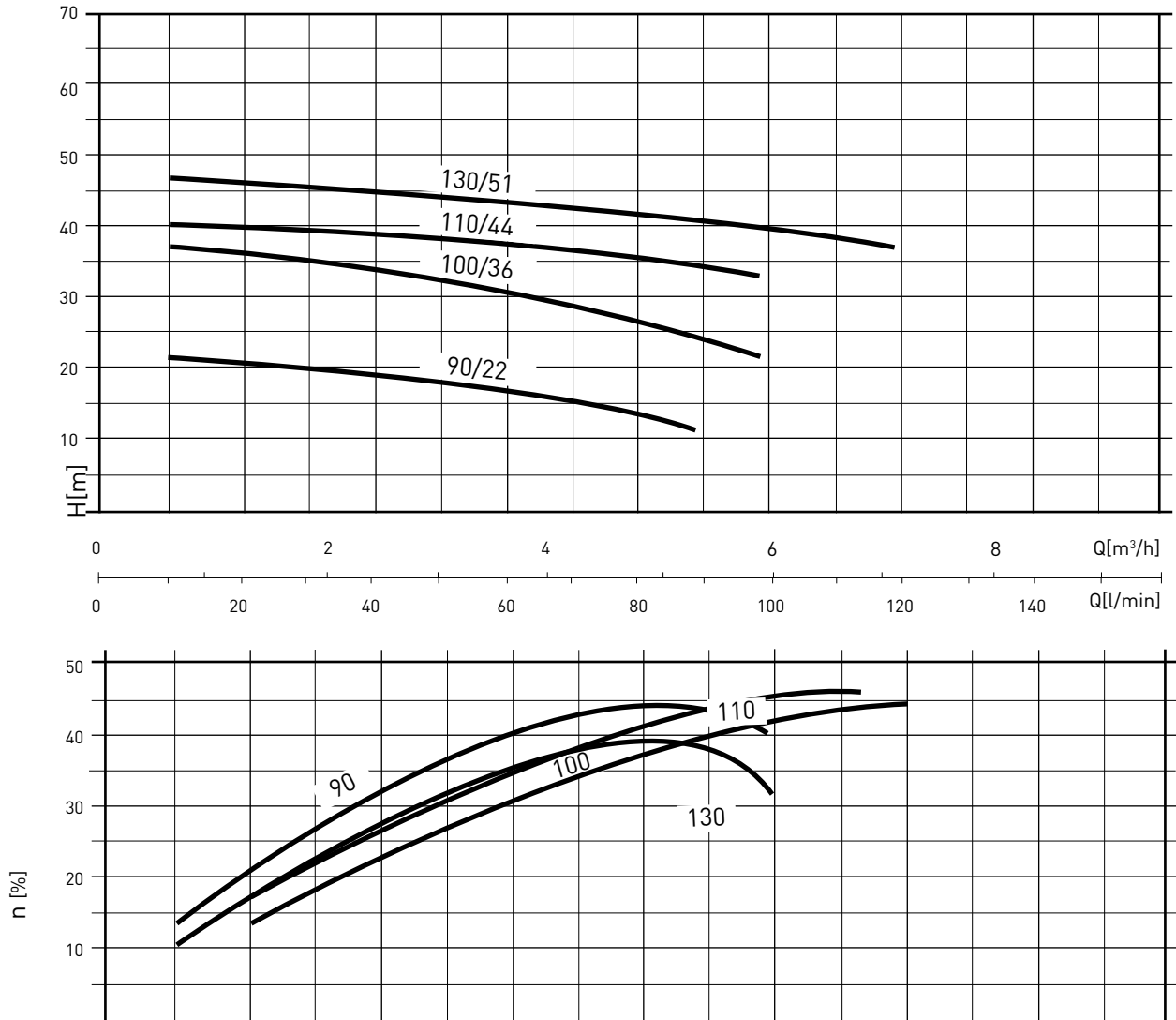
### DESIGN FEATURES

Component	Material
Pump body	EN GJL 200 (ex G20) Cast iron
Motor bracket	EN GJL 200 (ex G20) Cast iron
Impeller	Brass (CM 90/22 in technopolymer)
Motor shaft	X12 CrNiS 1809 (AISI 416) Stainless steel
Mechanical seal	Graphite
Counterface	Ceramic
O-rings	NBR 70 shore

# NOCCHI CM

## HORIZONTAL SINGLE-STAGE CENTRIFUGAL PUMPS

### HYDRAULIC PERFORMANCE



MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)



# NOCCHI CM

## HORIZONTAL SINGLE-STAGE CENTRIFUGAL PUMPS

TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	In (A)	μF	Q	L/1'	10	30	50	80	100	120	
	HP	kW	HP	kW					m <sup>3</sup> /h	0,6	1,8	3	4,8	6	7,2	
CM 90/22 M* CM 90/22 T*	0,5	0,35	1	0,75	1 ~ 230 V 3 ~ 230÷400 V	3,6 2,4-1,4	12,5	m.c.a. / m.c.w.	22	20	18	13				
CM 100/36 M CM 100/36 T	1	0,75	1,7	1,25	1 ~ 230 V 3 ~ 230÷400 V	5,5 3,8-2,2	20		35	33	31	26	22			
CM 110/44 M CM 110/44 T	1,5	1,1	2,3 2,4	1,7 1,8	1 ~ 230 V 3 ~ 230÷400 V	8 5,5-3,2	35		41	40	39	36	34			
CM 130/51 M CM 130/51 T	2	1,5	3,2 2,8	2,4 2,1	1 ~ 230 V 3 ~ 230÷400 V	10,3 6,9-4,0	40		47	46	45	42	40	38		

\* Technopolymer impeller

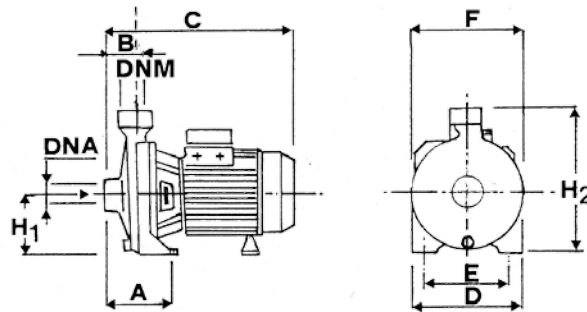


TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.										Weight (Kg)
	A	B	C	D	E	F	H1	H2	DNA	DNM	
CM 90/22	75	43	267	150	110	160	82	202	1"	1"	6,5
CM 100/36	82	44	310	180	140	185	107	242	1"	1"	11
CM 110/44	88	45	350	194	155	200	100	252	1"1/4	1"	20
CM 130/51	88	45	361	220	180	225	115	285	1"1/4	1"	23

# NOCCHI CB

## TWIN IMPELLER CENTRIFUGAL PUMPS

HIGH HYDRAULIC PERFORMANCE

The CB twin impeller centrifugal electric pumps have two self balanced impellers to give very high efficiency. Particularly suitable for domestic and industrial applications, booster sets etc.

### APPLICATIONS

- Booster systems
- Small-scale irrigation
- Non aggressive liquids transfer
- Washing systems

### USAGE LIMITATION

- Type of liquid: non-abrasive clear or slightly cloudy water
- Maximum liquid temperature:
  - 40° C for models 0,55 - 0,75 KW
  - 90° C for models 1,1 - 4,0 KW
- Maximum recommended suction height: 5 m with foot
- Maximum operating pressure:
  - 6 bar for models 0,55 - 0,75 KW
  - 10 bar for models 1,1 - 4,0 KW

### MOTOR

- Enclosed, externally ventilated
- Level of protection: IP 44
- Class insulation: F
- Single phase power supply with capacitor permanently activated and thermal protection built into the motor winding.
- Three phase power supply with external protection provided by the user.



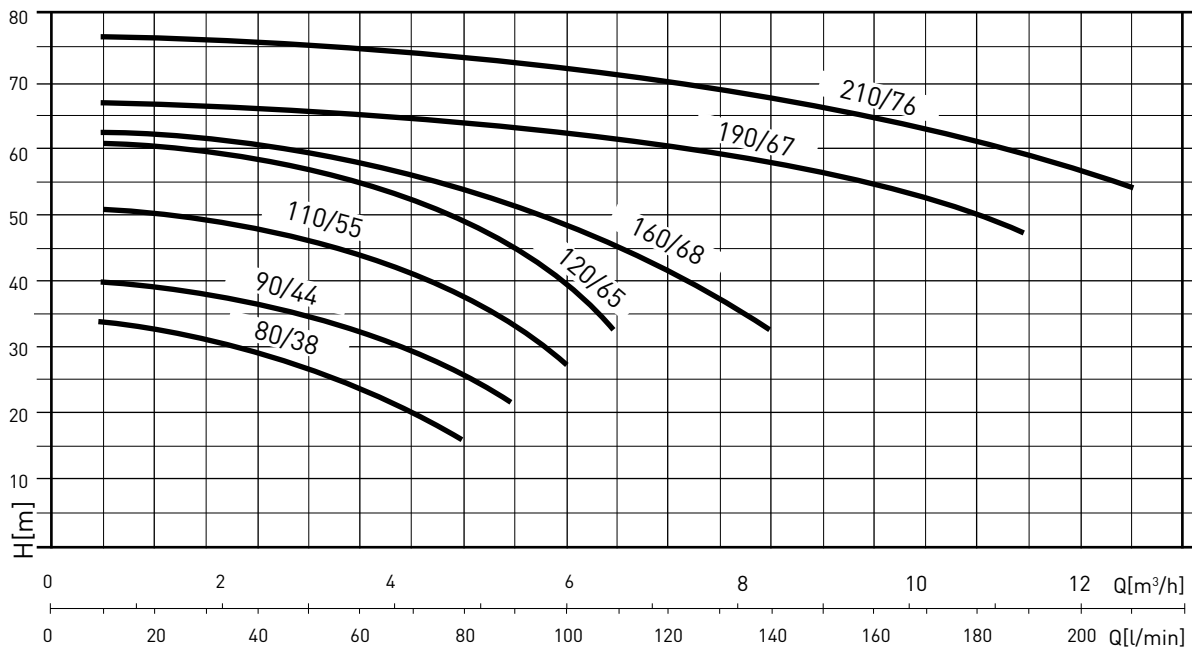
### DESIGN FEATURES

Component	Material
Pump body	EN GJL 200 (ex G20) Cast iron
Motor bracket	Aluminium on models: kW 0,55 - 1,00. Cast iron on the other models
Impeller	Technopolymer on models: kW 0,55 - 0,75. Brass on the other models
Intermediate plate	Cast iron
Motor shaft	AISI 303 on models: kW 1,1 - 1,5 - 2,2 AISI 304 on models: kW 3,0 - 4,0 AISI 416 on models: kW 0,55 - 0,75
Mechanical seal	Graphite
Counterface	Ceramic
Seal plate	AISI 304 on models: kW 0,55 - 0,75. Cast iron on the other models
O-rings	NBR

# NOCCHI CB

## TWIN IMPELLER CENTRIFUGAL PUMPS

### HYDRAULIC PERFORMANCE

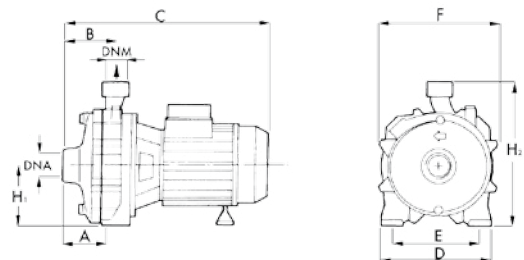


### TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	In (A)	μF	Q	L/1'	20	40	50	80	90	100	110	140	170	190	210		
	HP	kW	HP	kW						m³/h	1,2	2,4	3,0	4,8	5,4	6,0	6,6	8,4	9,6	10,8	12,0	
CB 80/38 M CB 80/38 T	0,75	0,55	1,5 1,4	1,1 1,1	1 ~ 220 V 3 ~ 220÷380 V	5 3,4-2,0	1,6	m.c.a. / m.c.w.	33	30,2	27,9	17										
CB 90/44 M CB 90/44 T	1	0,74	1,9 1,2	1,4 0,9	1 ~ 220 V 3 ~ 220÷400 V	6,1 2,9-1,7	20		39,5	37	35,2	27	21									
CB 110/55 M CB 110/55 T	1,5	1,1	2,5 2,4	1,9 1,8	1 ~ 220 V 3 ~ 220÷400 V	8,6 5,5-3,2	35		50,8	48,8	47,1	38,4	33,4	27,5								
CB 120/65 M CB 120/65	2	1,5	3,2 2,8	2,4 2,1	1 ~ 220 V 3 ~ 220÷400 V	10,8 6,9-4,0	40		60,5	58,6	56,9	49,8	46,5	40,3	32,5							
CB 160/68 T	3	2,2	3,5	2,6	3 ~ 220÷400 V	8,1-4,7				60,5	59,3	54,1	51,6	48,4	44,6	32						
CB 190/67 T	4	3	5,5	4,1	3 ~ 220÷400 V	12,5-7,2					67	64,8	63,9	62,5	62	58	53,5					
CB 210/76 T	5	4	6,1	4,6	3 ~ 220÷400 V	15,1-8,7						76,5	73,9	72,9	71,8	70,5	66,8	62	58,3	54		

### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.										Weight (Kg)
	A	B	C	D	E	F	H1	H2	DNA	DNM	
CB 80/38	58	73	336	180	140	183	97	227	1"	1"	13,5
CB 90/44	58	73	336	180	140	183	97	227	1"	1"	15
CB 110/55	66	86	394	195	155	209	110	265	1"1/4	1"	25
CB 120/65	66	86	410	195	155	209	110	265	1"1/4	1"	27
CB 160/68	66	86	410	195	155	194	110	265	1"1/4	1"	27
CB 190/67	72	96	467	230	180	228	133	309	1"1/2	1"1/4	42,5
CB 210/76	72	96	467	230	180	228	133	309	1"1/2	1"1/4	46,3



# NOCCHI PRATIKA

## MULTISTAGE CENTRIFUGAL SUBMERSIBLE PUMPS FOR CLEAR WATER

EQUIPPED WITH Ø 32 HOSE ADAPTER. AUTOMATIC VERSION EQUIPPED WITH FLOAT SWITCH.

The PRATIKA submersible pumps are portable and ready to use for installation in traditional wells, water deposits, collection tanks, clear watercourses, lakes etc.

### APPLICATIONS

- Pumping of water from traditional wells
- Small-scale automatic systems for garden irrigation
- Surface irrigation

### USAGE LIMITATION

- Type of liquid: clean water with no suspended solids or abrasive material
- Maximum liquid temperature 40° C
- Maximum submersion under the water level 10 m

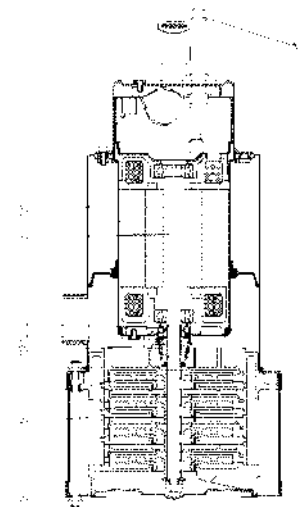
### MOTOR

- Dry motor
- Level of protection IP 68
- Class F insulation
- Single phase supply with capacitor permanently activated
- Thermal protection built into the motor winding
- Completely insulated cable connection chamber
- Self-lubricating ball bearings
- Speed of rotation 2850 rpm
- Suitable for continuous use



### DESIGN FEATURES

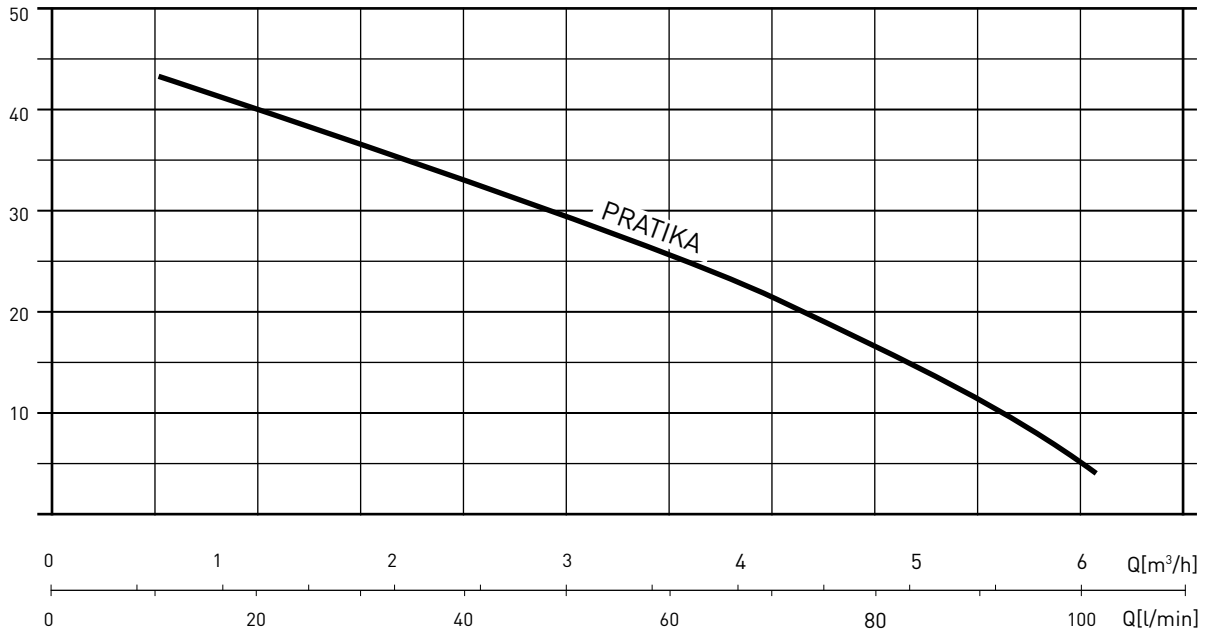
Component		Material	
1	Pump body	X 5 CrNi 1810 (AISI 304) Stainless steel	
2	Suction grid	X 5 CrNi 1810 (AISI 304) Stainless steel	
3	Suction base	X 5 CrNi 1810 (AISI 304) Stainless steel	
4	Power cable	15 m H07 RN-F With schuko plug	
5	Shaft (hydraulic end)	X 5 CrNi 1810 (AISI 304) Stainless steel with ceramic facing at the points of seal wear	
6	Mechanical seal	Graphite	Oil chamber for seal lubrication
	Counterface	Ceramic	
	Lip seal	NBR 70 Rubber	
8	Impeller	Technopolymer	
9	Diffuser	Technopolymer	



# NOCCHI PRATIKA

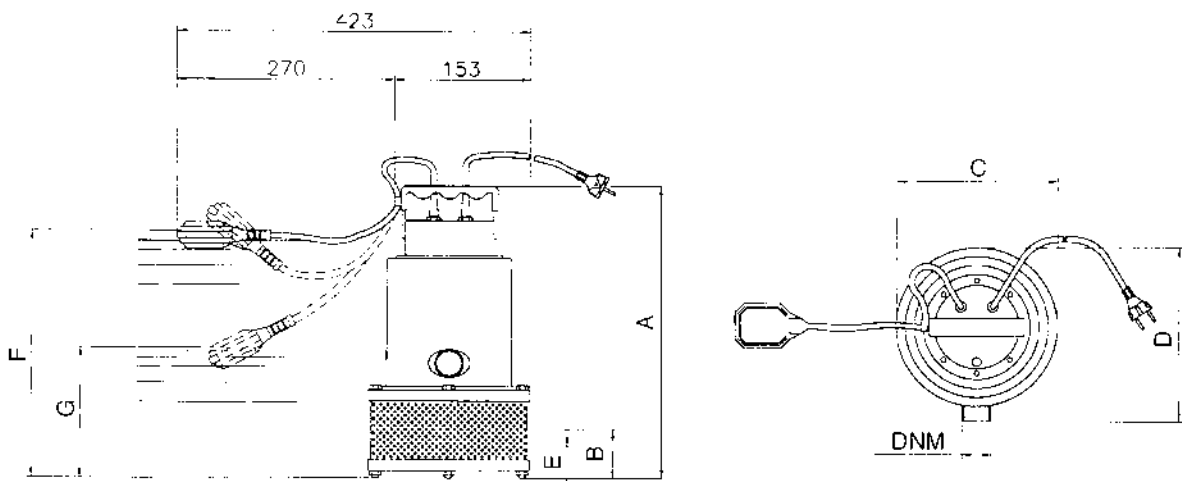
## MULTISTAGE CENTRIFUGAL SUBMERSIBLE PUMPS FOR CLEAR WATER

### HYDRAULIC PERFORMANCE



### PUMP PERFORMANCE

MODEL	Nominal Power (P2)		Absorbed Power (P1)		VOLT	In (A)	µF	Stages	Q	L/1'					
	HP	kW	HP	kW						0	20	40	60	80	100
PRATIKA - MAN	1,1	0,8	1,6	1,2	1 - 230 V	5	16	4	m.c.a./ m.c.w.	0	20	40	60	80	100
PRATIKA - AUT										0	1,2	2,4	3,6	4,8	6



### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.									Weight (Kg)
	A	B	Ø C	D	Minimum drainage level E*	Start level F*	Stop level G*	Free bore	DNM	
PRATIKA	406	162	178	182	50/60	490	260	Ø 1,5	1" 1/4	9

# NOCCHI DOMINATOR 4

## 4" MULTISTAGE CENTRIFUGAL SUBMERSIBLE PUMPS COMPLETE WITH MOTOR



HYDRAULIC SYSTEM RESISTANT TO THE SAND CORROSIVE ACTION, INTEGRATED NO-RETURN VALVE, BUILT-IN CAPACITOR

The DOMINATOR 4" submersible pumps are suitable for installation in traditional wells, water deposits, collection tanks, clear watercourses, lakes etc. Supplied with 20m nylon suspension cord.

### APPLICATIONS

- Pumping of water from traditional wells.
- Small-scale automatic systems for garden irrigation.
- Surface irrigation.

### USAGE LIMITATION

- Type of liquid: clean water with no suspended solids or abrasive material.
- Maximum liquid temperature 40°C.
- Maximum submersion under the water level 17 m.

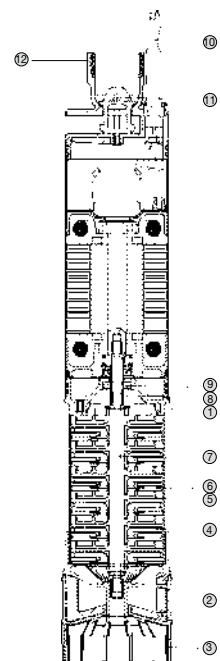
### MOTOR

- Dry motor with stainless steel casing cooled by the pumped liquid.
- Level of protection IP 68.
- Class F insulation.
- Single phase supply with capacitor permanently activated.
- Thermal protection built into the motor winding.
- Completely insulated cable connection chamber.
- Self-lubricating ball bearings.
- Speed of rotation 2850 rpm.
- Suitable for continuous use.



### DESIGN FEATURES

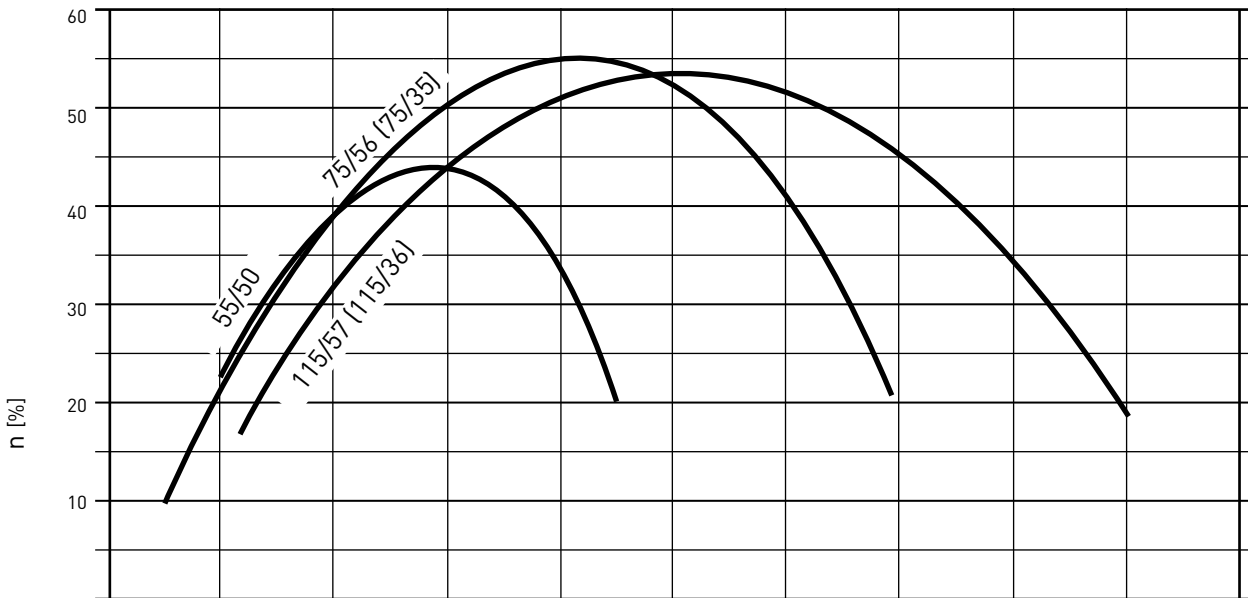
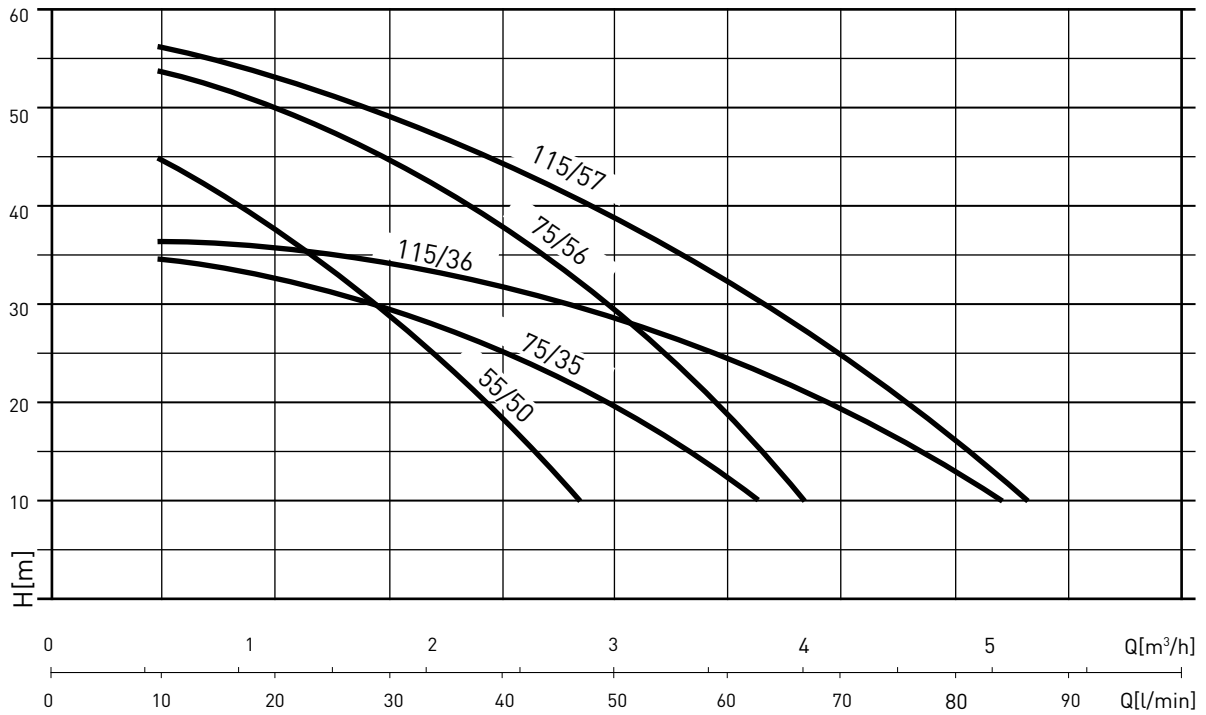
Component	Material
1 Pump body	X 5 CrNi 1810 (AISI 304) Stainless steel
2 Suction grid	X 16 CrNi 16 (AISI 431) Stainless steel
3 Base	Noryl GNF 2V
4 Impeller	Acetal resin
5 Diffuser	Polycarbonate with ceramic insert in the point of wear
6 Diffuser cap	Polycarbonate with stainless steel inserts in the point of wear
7 Motor shaft	Hexagonal, in X 10 CrNiS 1809 (AISI 303) stainless steel with ceramic insert at the point of wear. AISI 416 for the out of water parts.
8 Mechanical seal	Graphite
9 Counterface	Aluminum oxide
10 Power cable	20 m H07 RNF-F
11 No-return valve	Integrated - Plastic
12 Discharge head	Noryl con inserto filettato 1" 1/4
-	Thrust bearing ring inserted in every stage



# NOCCHI DOMINATOR 4

## 4" MULTISTAGE CENTRIFUGAL SUBMERSIBLE PUMPS COMPLETE WITH MOTOR

### HYDRAULIC PERFORMANCE



MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

# NOCCHI DOMINATOR 4

## 4" MULTISTAGE CENTRIFUGAL SUBMERSIBLE PUMPS COMPLETE WITH MOTOR

### PUMP PERFORMANCE

MODEL	Nominal power (P2)		Motor power (P1)		VOLT	In (A)	μF	Q	L/1'	0	20	40	60	80
	HP	kW	HP	kW					m³/h	0	1,2	2,4	3,6	4,8
DOMINATOR 4" - 55/50 M	0,75	0,56	1,1	0,8	1 ~ 220 ÷ 240 V	3,8	16	m.c.a./m.c.w.	50	38,7	17			
DOMINATOR 4" - 75/35 M	0,50	0,35	0,80	0,60	1 ~ 220 ÷ 240 V	3	12,5		35	33	26	11		
DOMINATOR 4" - 75/56 M	0,80	0,60	1	0,75	1 ~ 220 ÷ 240 V	3,3	16		56	48,9	38,1	19		
DOMINATOR 4" - 115/36 M	0,55	0,40	1	0,75	1 ~ 220 ÷ 240 V	3,5	12,5		36	35	32	25	13	
DOMINATOR 4" - 115/57 M	1	0,80	1,50	1,10	1 ~ 220 ÷ 240 V	5	16		57	52	44,4	31,5	16,6	



### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.				Weight (Kg)
	A	ø C	Passaggio libero	DNM	
DOMINATOR 4" - 55/50	549	98	2 mm	1"1/4	8,8
DOMINATOR 4" - 75/35	560	98	2 mm	1"1/4	8,1
DOMINATOR 4" - 75/56	643	98	2 mm	1"1/4	9,6
DOMINATOR 4" - 115/36	560	98	2 mm	1"1/4	8,1
DOMINATOR 4" - 115/57	643	98	2 mm	1"1/4	9,9



# NOCCHI DOMINATOR 5

## SUBMERSIBLE MULTISTAGE CENTRIFUGAL PUMP FOR CLEAR WATER

COMPLETELY IN STAINLESS STEEL, DOUBLE MECHANICAL SEAL WITH OIL CHAMBER, HIGH QUALITY AND RELIABILITY

The DOMINATOR 5" submersible pumps are suitable for installation in traditional wells, water deposits, collection tanks, clear watercourses, lakes etc. Automatic version equipped with float switch.

### APPLICATIONS

- Pumping of water from traditional wells
- Small-scale automatic systems for garden irrigation
- Surface irrigation

### USAGE LIMITATION

- Type of liquid: clean water with no suspended solids or abrasive material
- Maximum liquid temperature 40° C
- Maximum submersion under the water level 17 m

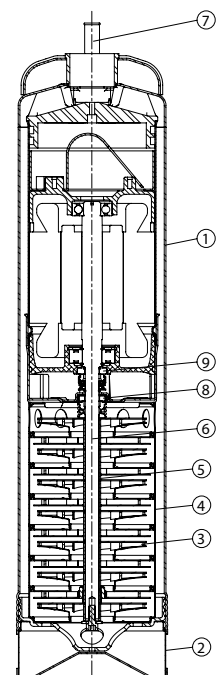
### MOTOR

- Dry motor with stainless steel casing cooled by the pumped liquid
- Level of protection IP 68
- Class F insulation
- Single phase supply with capacitor permanently activated
- Thermal protection built into the motor winding
- Completely insulated cable connection chamber
- Self-lubricating ball bearings
- Speed of rotation 2850 rpm
- Suitable for continuous use



### DESIGN FEATURES

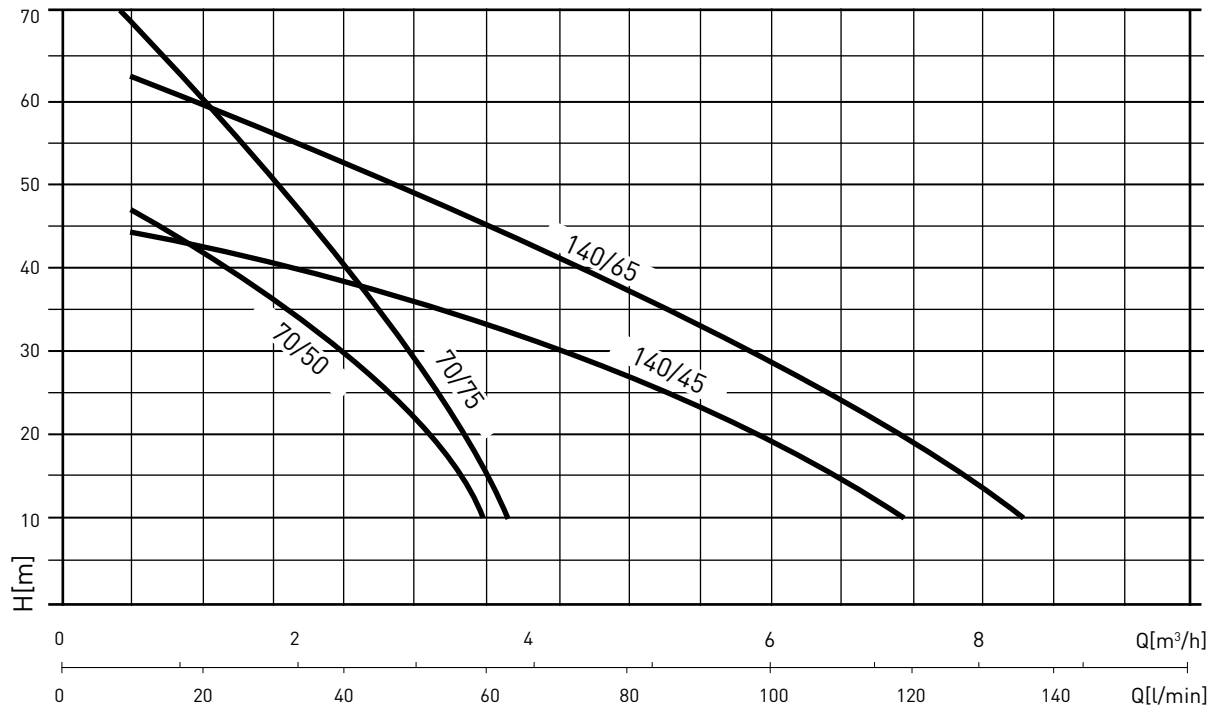
Component		Material	
1	Pump body	X 5 CrNi 1810 (AISI 304) Stainless steel	
2	Suction grid	X 5 CrNi 1810 (AISI 304) Stainless steel	
3	Impeller	X 5 CrNi 1810 (AISI 304) Stainless steel	
4	Diffuser	X 5 CrNi 1810 (AISI 304) Stainless steel	
5	Spacer	X 5 CrNi 1810 (AISI 304) Stainless steel	
6	Motor shaft	X 5 CrNi 1810 (AISI 304) Stainless steel	
7	Power cable	20 m H07 RN-F with plug	
8	Mechanical seal	Carbon graphite resin impreg	Al-Oxide counterface with NBR rubber
9	Counterface	Carbon graphite resin impreg	



# NOCCHI DOMINATOR 5

## SUBMERSIBLE MULTISTAGE CENTRIFUGAL PUMP FOR CLEAR WATER

### HYDRAULIC PERFORMANCE



### PUMP PERFORMANCE

MODEL	Nominal power (P2)		Motor power (P1)		VOLT	In (A)	μF	Stadi Stages	Q	L/1'	0	20	40	60	80	100	120	140	
	HP	kW	HP	kW							m³/h	0	1,2	2,4	3,6	4,8	6	7,2	8,4
D 5" - 70/50B M D 5" - 70/50B M AUT	0,6	0,8	1,2	0,9	1 - 230	4,5	16	6	m.c.a. / m.c.w.		50,6	42,5	29,3	7,5					
D 5" - 70/50B T D 5" - 70/50B T					3 - 400 V 3 - 230 V	1,8 3													
D 5" - 70/75B M D 5" - 70/75B M AUT	1,2	0,9	2	1,45	1 - 230	6	20	9			75	60,7	41,4	17,2					
D 5" - 70/75B T D 5" - 70/75B T					3 - 400 V 3 - 230 V	2,1 3,7													
D 5" - 140/45B M D 5" - 140/45B M AUT	1,1	0,8	1,8	1,3	1 - 230	5,5	16	5			44	42	38,4	33,3	28	21,8	15,2	7,4	
D 5" - 140/45B T D 5" - 140/45B T					3 - 400 V 3 - 230 V	2 3,5													
D 5" - 140/65B M D 5" - 140/65B M AUT	1,5	1,1	2,3	1,7	1 - 230	7,2	20	7			62	57	51	45	38	27,9	18,2	9	
D 5" - 140/65B T D 5" - 140/65B T					3 - 400 V 3 - 230 V	2,5 4,4													

### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.				Weight (Kg)
	A	Ø C	Passaggio libero	DNM	
D 5" - 70/50	470	132	2 mm	1"1/4	13.7
D 5" - 70/75	520	132	2 mm	1"1/4	15.5
D 5" - 140/45	495	132	2 mm	1"1/4	14.2
D 5" - 140/65	550	132	2 mm	1"1/4	15.8



# NOCCHI SCM 4 PLUS

## 4" MULTISTAGE CENTRIFUGAL SUBMERSIBLE PUMPS COMPLETE WITH MOTOR

HIGH STIFFNESS AND HIGH RESISTANCE TO WATER HAMMERING, HIGH SAND ABRASION RESISTANCE, HIGH HYDRAULIC EFFICIENCY

The SCM 4 PLUS submersible pumps consist of a multistage pumping unit directly connected to a submersible motor. Especially suitable for pumping from deep 4" (100mm) Ø wells.

### APPLICATIONS

- Pumping of water from drilled wells
- Automatic systems for garden irrigation
- Surface irrigation for agricultural use
- Pumping and supply of stored deposits or of booster autoclaves for industrial systems

### USAGE LIMITATION

- Type of liquid: clean non-aggressive, non-explosive, free of solids
- Maximum liquid temperature 35° C
- Max. start-ups per hour 30
- Motor protection with thermal relay provided by the user

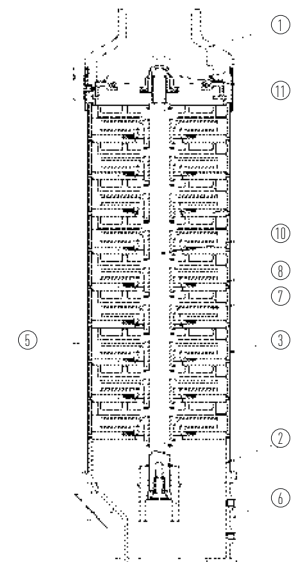
### MOTOR

- 4" submersible motor
- Special resin impregnated sealed stator
- Water-cooled thrust bearings and bushes
- Approx. 1.75 m extendible power supply cable
- Non-polluting water cooling
- 4" NEMA flange
- Level of protection IP 68
- Class B insulation
- Speed of rotation 2850 rpm
- Special mechanical seal with sand guard
- Pressure compensation diaphragm
- Supplied without capacitor (single phase version)
- Suitable for continuous use
- Electrical control panel on request



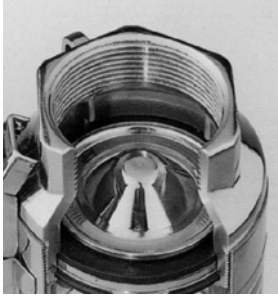
### DESIGN FEATURES

Component	Material
1 Outlet	X 5 CrNi 1810 (AISI 304) Microcast stainless steel
2 Suction flange	X 5 CrNi 1810 (AISI 304) Microcast stainless steel
3 Pump body	X 5 CrNi 1810 (AISI 304) Stainless steel
4 No-return valve	X 5 CrNi 1810 (AISI 304) Stainless steel
5 Cable protection trough	X 5 CrNi 1810 (AISI 304) Stainless steel
6 Filter	X 5 CrNi 1810 (AISI 304) Stainless steel
7 Impeller	Acetal resin
8 Diffuser	Polycarbonate with ceramic insert at the point of wear
9 Diffuser cap	Polycarbonate with steel insert series 300
10 Motor shaft	Hexagonal in X10 CrNiS 1809 (AISI 303) Stainless steel with ceramic facing on the upper end
Self-lubricating delivery bearing	Molybdenum bisulphide polyamide
-	Thrust ring inserted in every stage



# NOCCHI SCM 4 PLUS

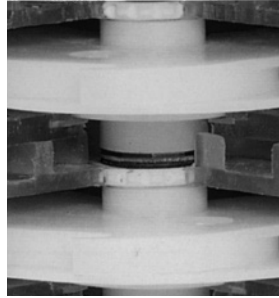
## 4" MULTISTAGE CENTRIFUGAL SUBMERSIBLE PUMPS COMPLETE WITH MOTOR



Delivery connection point in microcast AISI 304 stainless steel with an internal tapered double profile with a stainless steel non return valve and a double slot for safety cable.

### BENEFITS:

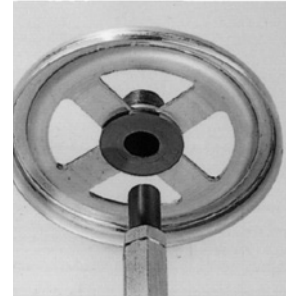
It resets flow resistance offering maximum rigidity and high resistance to protect the pump against water hammering.



Floating impeller with suction point shim on stainless steel moulded with a diffusor cover. Thrust bearing inserted between the hub of the impeller and diffusor formed by one ceramic ring moulded with the diffusor and a free ring in graphite. "International Patent"

### BENEFITS:

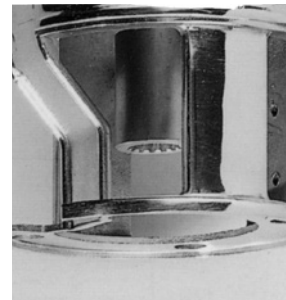
This extraordinary technological innovation leads to a large increase in efficiency as well as high resistance to abrasion by sand and to dry operation.



Shaft guide bearing made with a selflubricating closed bush in molybdenum bisulphide polyamide and stainless steel shaft with ceramic insert at the point of wear.

### BENEFITS:

Increases the life of the pump - protection against dry operation - high resistance to wear caused by sand.



Motor bracket and suction point in microcast AISI 304 stainless steel rigidly welded to the outer stainless steel liner. Stainless steel suction grid.

### BENEFITS:

This system offers high resistance to mechanical stresses caused by operating pressure. Maximum rigidity of the whole structure eliminates vibrations.

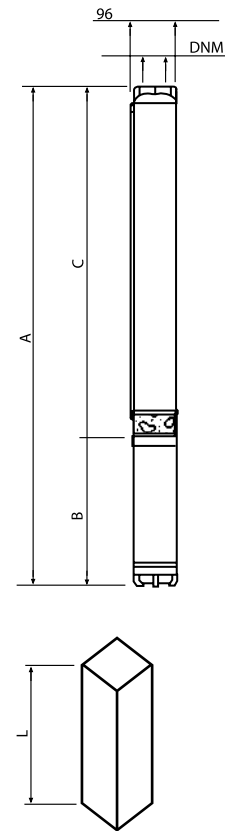


# NOCCHI SCM 4 PLUS

## 4" MULTISTAGE CENTRIFUGAL SUBMERSIBLE PUMPS COMPLETE WITH MOTOR

TABLE FOR CALCULATING PUMP LENGTH

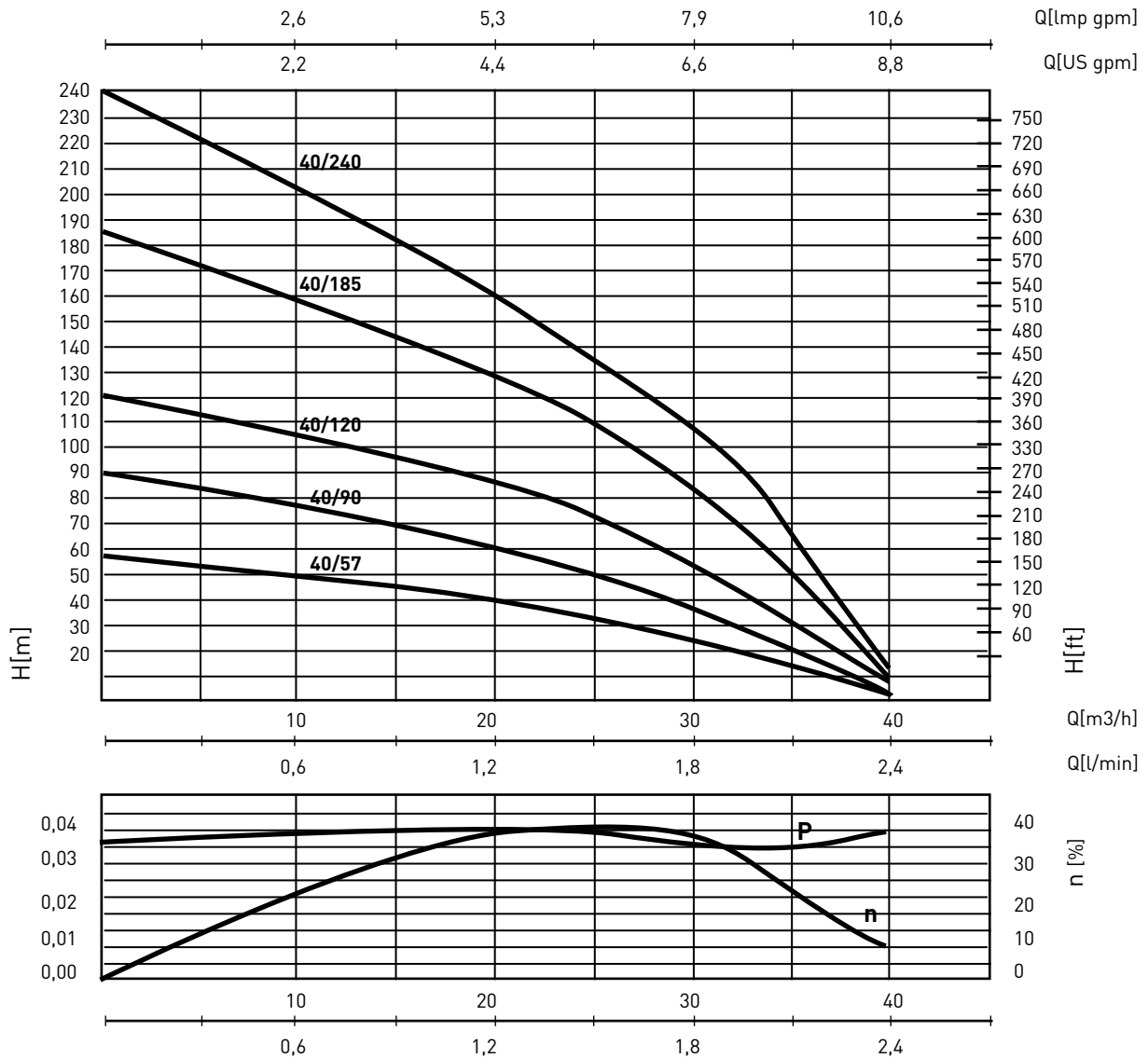
MODEL	A Total length mm	B Motor length mm	C Pump length mm	DNM	L Packing length mm	Total Weight kg	
SCM 4 PLUS 40/57 M	584	250	334		610	11,8	
SCM 4 PLUS 40/57 T	569	235	334		610	10,8	
SCM 4 PLUS 40/90 M	711	265	446		800	14	
SCM 4 PLUS 40/90 T	696	250	446		800	12,7	
SCM 4 PLUS 40/120 M	853	295	558		960	16,1	
SCM 4 PLUS 40/120 T	823	265	558		960	14,9	
SCM 4 PLUS 40/185 M	1122	340	782		1330	19,2	
SCM 4 PLUS 40/185 T	1077	295	782		1120	17,9	
SCM 4 PLUS 40/240 M	1358	375	983		1580	22,2	
SCM 4 PLUS 40/240 T	1323	340	983		1330	20,8	
SCM 4 PLUS 55/50 M	517	250	267			610	11,3
SCM 4 PLUS 55/50 T	502	235	267			610	10,3
SCM 4 PLUS 55/80 M	622	265	357			800	13,1
SCM 4 PLUS 55/80 T	607	250	357			800	11,8
SCM 4 PLUS 55/105 M	696	295	401			800	14,9
SCM 4 PLUS 55/105 T	666	265	401			800	13,7
SCM 4 PLUS 55/160 M	875	340	535	960		17,3	
SCM 4 PLUS 55/160 T	830	295	535	960		16	
SCM 4 PLUS 55/200 M	1045	375	670	1120		19,8	
SCM 4 PLUS 55/200 T	1010	340	670	1120		18,4	
SCM 4 PLUS 55/300 T	1336	375	961	1580		22,3	
SCM 4 PLUS 75/40 M	553	250	303	1 1/4"		610	11,2
SCM 4 PLUS 75/40 T	538	235	303		610	10,2	
SCM 4 PLUS 75/56 M	625	265	360		800	12,9	
SCM 4 PLUS 75/56 T	610	250	360		800	11,6	
SCM 4 PLUS 75/75 M	740	295	445		800	14,8	
SCM 4 PLUS 75/75 T	710	265	445		800	13,6	
SCM 4 PLUS 75/110 M	928	340	588		960	17,1	
SCM 4 PLUS 75/110 T	883	295	588		960	15,8	
SCM 4 PLUS 75/140 M	1077	375	702		1120	19,4	
SCM 4 PLUS 75/140 T	1042	340	702		1120	18	
SCM 4 PLUS 75/210 T	1391	375	1016		1580	21,5	
SCM 4 PLUS 115/30 M	496	250	246			610	11
SCM 4 PLUS 115/30 T	481	235	246	610		10	
SCM 4 PLUS 115/50 M	596	265	331	610		12,8	
SCM 4 PLUS 115/50 T	581	250	331	610		11,5	
SCM 4 PLUS 115/65 M	683	295	388	800		14,4	
SCM 4 PLUS 115/65 T	653	265	388	800		13,2	
SCM 4 PLUS 115/95 M	842	340	502	960		16,6	
SCM 4 PLUS 115/95 T	797	295	502	960		15,3	
SCM 4 PLUS 115/122 M	992	375	617	1120		18,8	
SCM 4 PLUS 115/122 T	957	340	617	960		17,4	
SCM 4 PLUS 115/185 T	1221	375	846	1330		20,8	
SCM 4 PLUS 115/245 T	1582	480	1102	1870		25	
SCM 4 PLUS 150/42 M	648	295	353	2"		800	14
SCM 4 PLUS 150/42 T	618	265	353			800	12,8
SCM 4 PLUS 150/64 M	803	340	463		960	16,1	
SCM 4 PLUS 150/64 T	758	295	463		800	14,8	
SCM 4 PLUS 150/84 M	948	375	573		960	18,3	
SCM 4 PLUS 150/84 T	913	340	573		960	16,9	
SCM 4 PLUS 150/120 T	1161	375	786		1330	20,1	
SCM 4 PLUS 150/170 T	1523	480	1043		1580	24,2	
SCM 4 PLUS 150/200 T	1781	555	1226		1870	33,1	
SCM 4 PLUS 150/300 T	2378	675	1703		2590	42,3	
SCM 4 PLUS 250/53 M	970	375	595		2590	1120	18
SCM 4 PLUS 250/53 T	935	340	595			960	15,6
SCM 4 PLUS 250/78 T	1205	375	830	1330		18	
SCM 4 PLUS 250/100 T	1516	480	1036	1870		23,9	
SCM 4 PLUS 250/127 T	1798	555	1243	1870		29,6	
SCM 4 PLUS 250/185 T	2433	675	1758	2590		42,6	



# NOCCHI SCM 4 PLUS 40

## 4" MULTISTAGE CENTRIFUGAL SUBMERSIBLE PUMPS COMPLETE WITH MOTOR

### HYDRAULIC PERFORMANCE



The power curve refers to the brake horse power (BHP) per stage.  $\eta_p$  indicates the pump hydraulic efficiency  
 MEI  $\geq$  0,1 - Benchmark MEI  $\geq$  0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

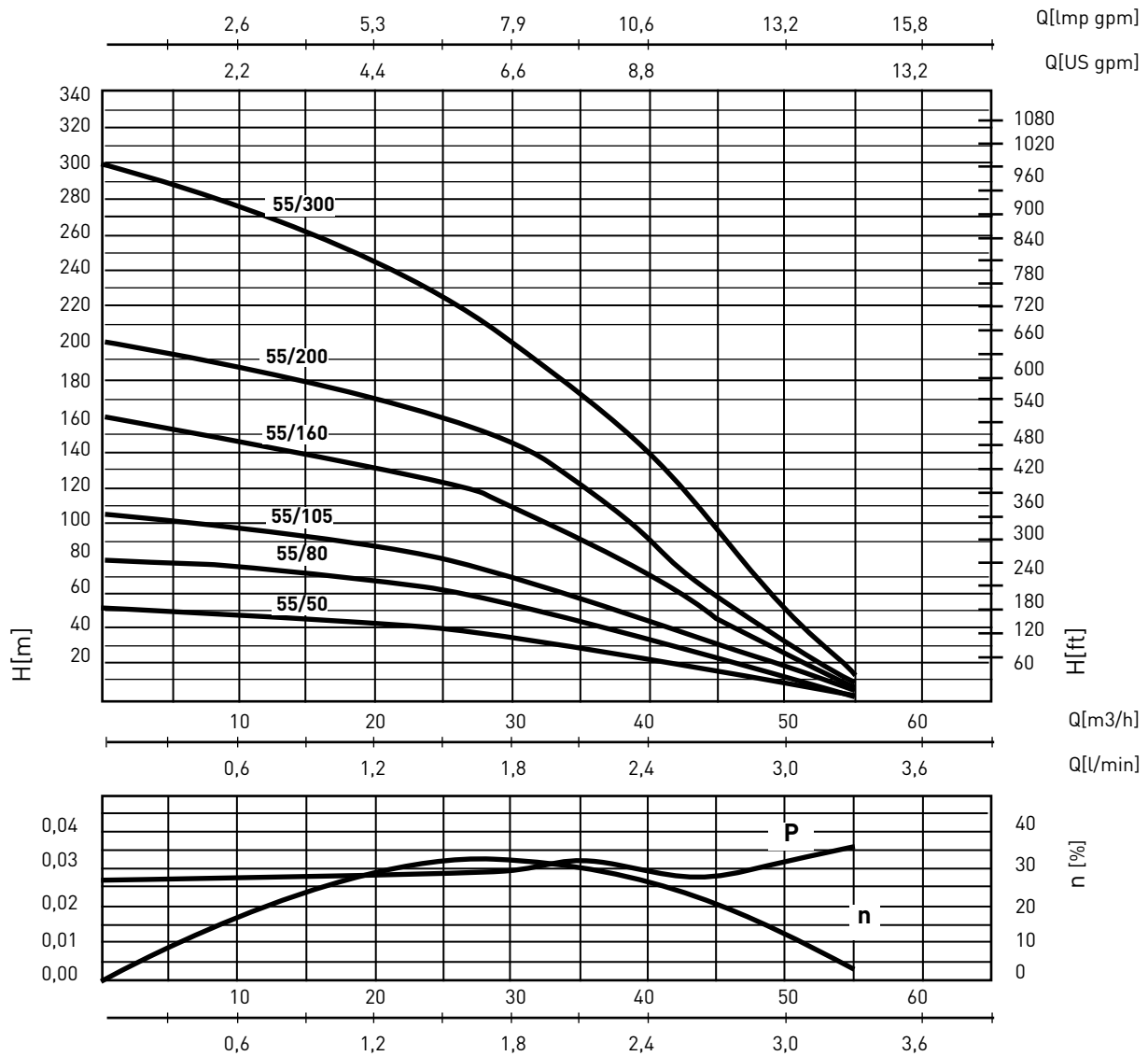
### PUMP PERFORMANCE

MODEL	N° stages	Motor power		VOLT	In (A)	$\mu$ F	Q	L/1'				$\emptyset$ DNM
		HP	kW					0,6	1,2	1,8	2,4	
SCM 4 PLUS-40/57 M SCM 4 PLUS-40/57 T	9	0,5	0,37	1 ~ 230 V 3 ~ 400 V	3,4 1,2	16	m.c.a. / m.c.w.	49	41	26	3	1"1/4
SCM 4 PLUS-40/90 M SCM 4 PLUS-40/90 T	14	0,75	0,55	1 ~ 230 V 3 ~ 400 V	4,4 1,7	20		76	64	40	4	
SCM 4 PLUS-40/120 M SCM 4 PLUS-40/120 T	19	1	0,75	1 ~ 230 V 3 ~ 400 V	5,9 2,2	30		104	86	55	7	
SCM 4 PLUS-40/185 M SCM 4 PLUS-40/185 T	29	1,5	1,1	1 ~ 230 V 3 ~ 400 V	7,8 3	40		158	130	85	10	
SCM 4 PLUS-40/240 M SCM 4 PLUS-40/240 T	38	2	1,5	1 ~ 230 V 3 ~ 400 V	10,2 4	50		205	160	110	12	

# NOCCHI SCM 4 PLUS 55

## 4" MULTISTAGE CENTRIFUGAL SUBMERSIBLE PUMPS COMPLETE WITH MOTOR

### HYDRAULIC PERFORMANCE



The power curve refers to the brake horse power (BHP) per stage.  $\eta_p$  indicates the pump hydraulic efficiency  
 MEI  $\geq$  0,1 - Benchmark MEI  $\geq$  0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

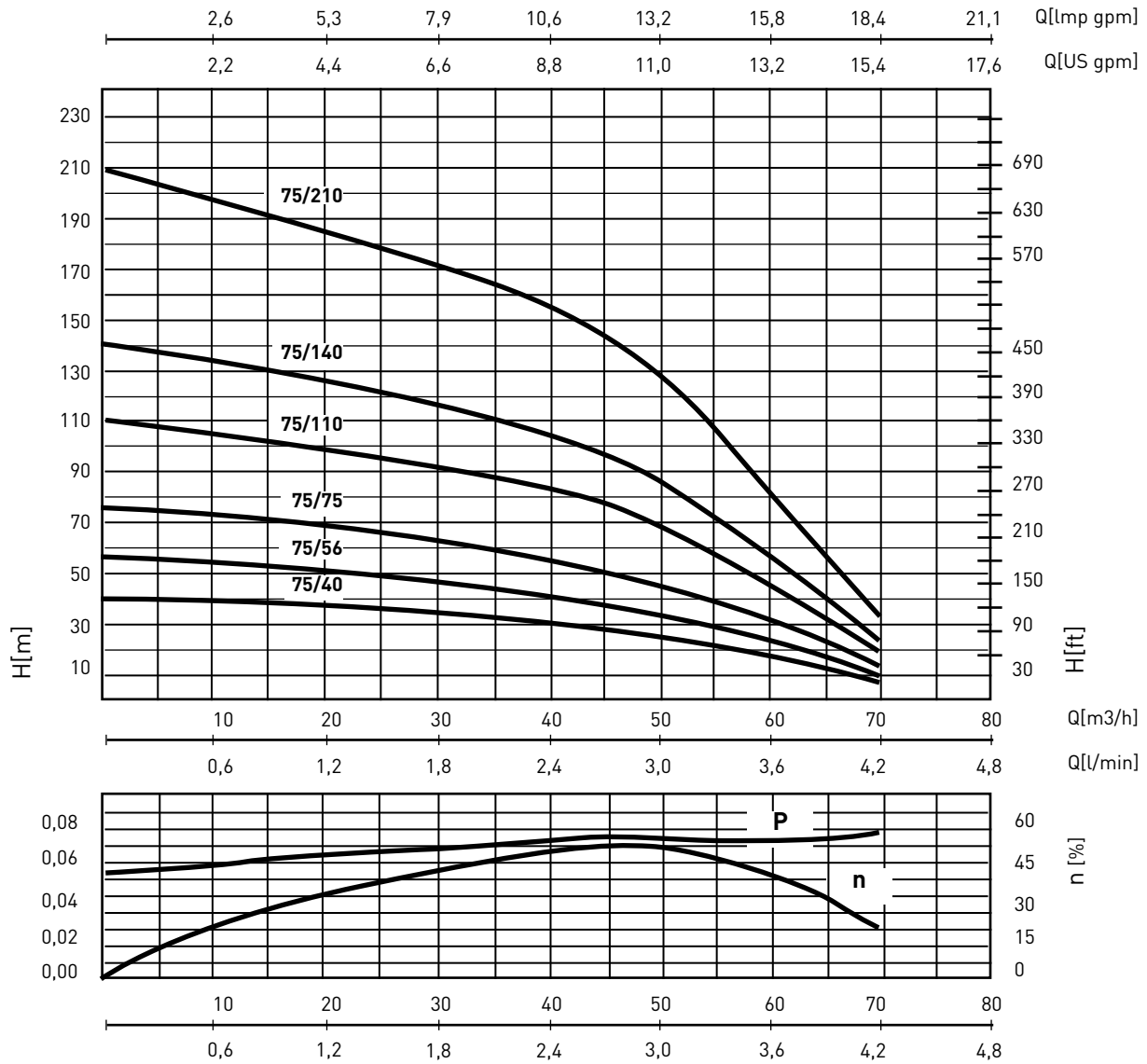
### PUMP PERFORMANCE

MODEL	N° Stages	Motor power		VOLT	In (A)	$\mu$ F.	Q	L/1'	10	20	30	40	50	$\emptyset$ DNM
		HP	kW					m³/h	0,6	1,2	1,8	2,4	3	
SCM 4 PLUS-55/50 M SCM 4 PLUS-55/50 T	6	0,5	0,37	1 - 230 V 3 - 400 V	3,4 1,2	16	m.c.a. / m.c.w.	47	42	36	23	8	1"1/4	
SCM 4 PLUS-55/80 M SCM 4 PLUS-55/80 T	10	0,75	0,55	1 - 230 V 3 - 400 V	4,4 1,7	20		75	66	55	35	12		
SCM 4 PLUS-55/105 M SCM 4 PLUS-55/105 T	12	1	0,75	1 - 230 V 3 - 400 V	5,9 2,2	30		98	87	72	46	12		
SCM 4 PLUS-55/160 M SCM 4 PLUS-55/160 T	18	1,5	1,1	1 - 230 V 3 - 400 V	7,8 3	40		145	132	110	70	24		
SCM 4 PLUS-55/200 M SCM 4 PLUS-55/200 T	24	2	1,5	1 - 230 V 3 - 400 V	10,2 4	50		187	169	145	90	30		
SCM 4 PLUS-55/300 T	37	3	2,2	3 - 400 V	5,6			278	244	200	140	50		

# NOCCHI SCM 4 PLUS 75

## 4" MULTISTAGE CENTRIFUGAL SUBMERSIBLE PUMPS COMPLETE WITH MOTOR

### HYDRAULIC PERFORMANCE



The power curve refers to the brake horse power (BHP) per stage.  $\eta_p$  indicates the pump hydraulic efficiency  
 MEI  $\geq$  0,1 - Benchmark MEI  $\geq$  0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

### PUMP PERFORMANCE

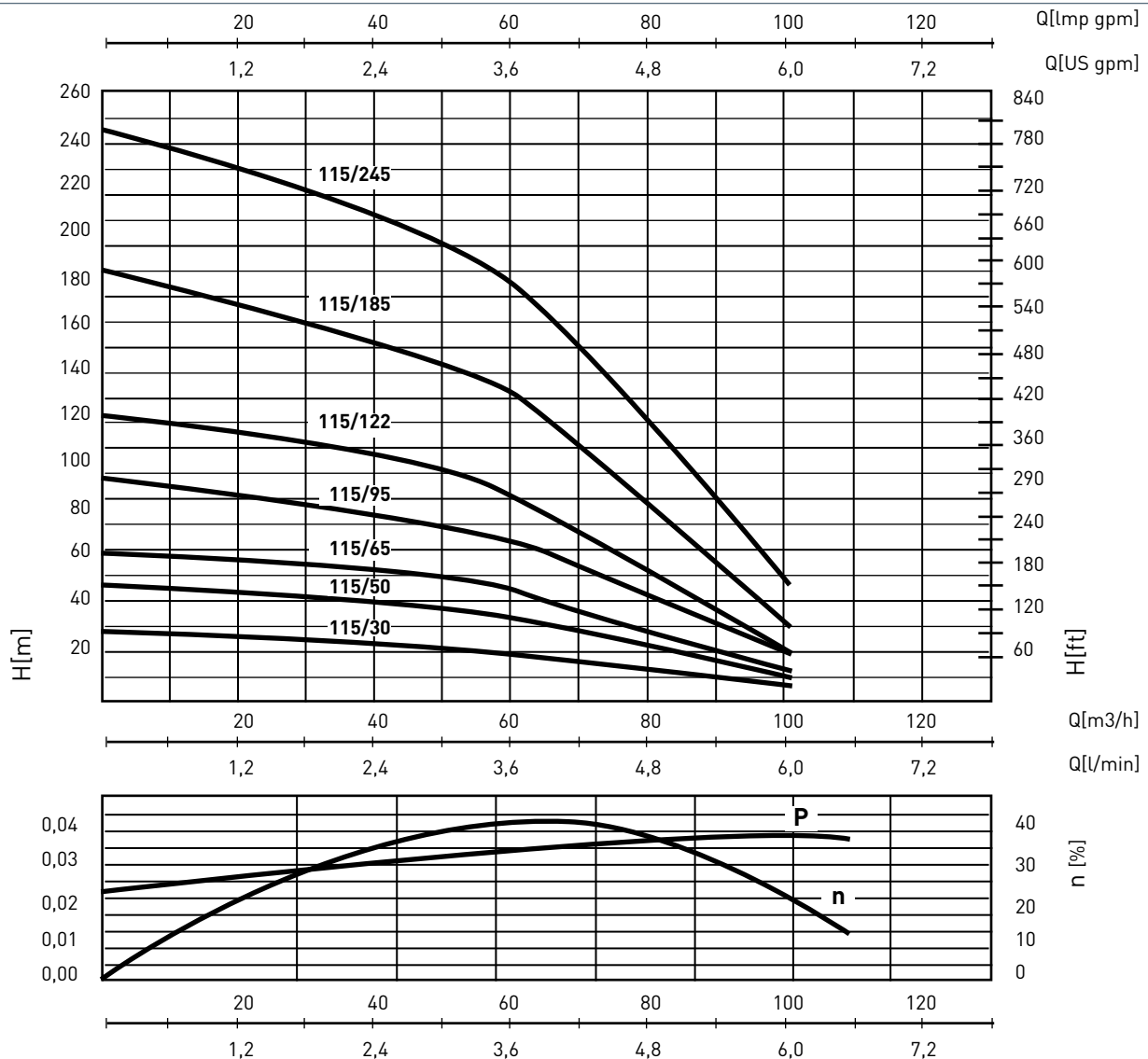
MODEL	N° Stages	Motor power		VOLT	In (A)	$\mu$ F.	Q	L/1'	20	30	40	50	60	$\emptyset$ DNM
		HP	kW						1,2	1,8	2,4	3	3,6	
SCM 4 PLUS-75/40 M SCM 4 PLUS-75/40 T	6	0,5	0,37	1 - 230 V 3 - 400 V	3,4 1,2	16	n.c.a. / m.c.w.	m³/h	36	33	28	23	15	1"1/4
SCM 4 PLUS-75/56 M SCM 4 PLUS-75/56 T	8	0,75	0,55	1 - 230 V 3 - 400 V	4,4 1,7	20			50	45	40	32	21	
SCM 4 PLUS-75/75 M SCM 4 PLUS-75/75 T SCM 4 PLUS-75/75 T	11	1	0,75	1 - 230 V 3 - 400 V 3 - 230 V	5,9 2,2 3,8	30			67	62	55	45	30	
SCM 4 PLUS-75/110 M SCM 4 PLUS-75/110 T	16	1,5	1,1	1 - 230 V 3 - 400 V	7,8 3	40			100	92	82	68	44	
SCM 4 PLUS-75/140 M SCM 4 PLUS-75/140 T	20	2	1,5	1 - 230 V 3 - 400 V	10,2 4	50			127	116	105	86	57	
SCM 4 PLUS-75/210 T	30	3	2,2	3 - 400 V	5,6				186	170	155	130	80	



# NOCCHI SCM 4 PLUS 115

## 4" MULTISTAGE CENTRIFUGAL SUBMERSIBLE PUMPS COMPLETE WITH MOTOR

### HYDRAULIC PERFORMANCE



The power curve refers to the brake horse power (BHP) per stage.  $\eta_p$  indicates the pump hydraulic efficiency  
 MEI  $\geq$  0,1 - Benchmark MEI  $\geq$  0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

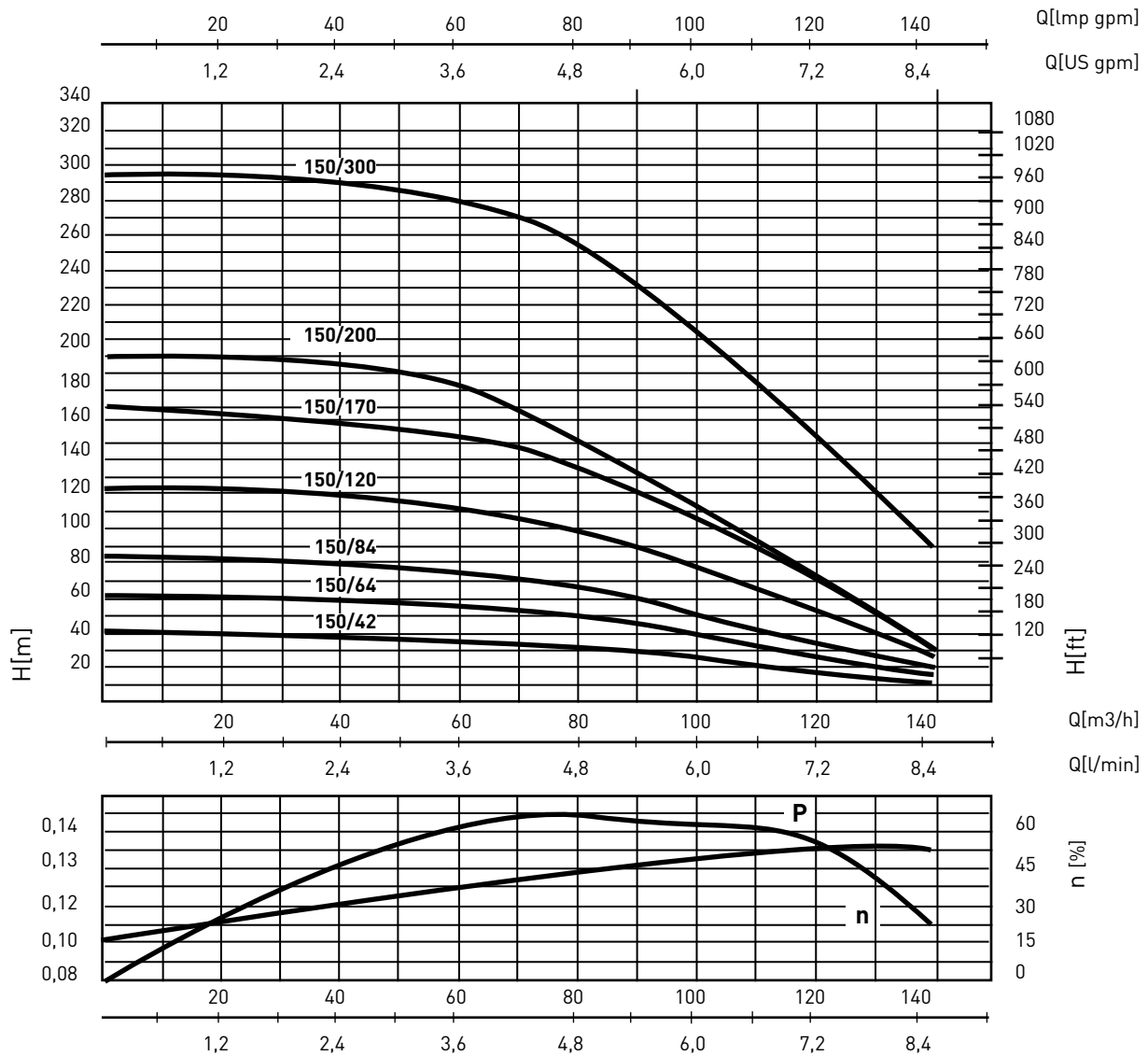
### PUMP PERFORMANCE

MODEL	N° Stages	Motor power		VOLT	In (A)	$\mu$ F.	Q	L/1'	30	40	50	60	80	90	100	$\emptyset$ DNM
		HP	kW						m³/h	1,8	2,4	3	3,6	4,8	5,4	
SCM 4 PLUS-115/30 M SCM 4 PLUS-115/30 T	4	0,5	0,37	1 - 230 V 3 - 400 V	3,4 1,2	16	m.c.a./m.c.w.	26	24	22	20	13	9	6,4	1 1/4	
SCM 4 PLUS-115/50 M SCM 4 PLUS-115/50 T	7	0,75	0,55	1 - 230 V 3 - 400 V	4,4 1,7	20			46	43	40	36	23	16		10
SCM 4 PLUS-115/65 M SCM 4 PLUS-115/65 T SCM 4 PLUS-115/65 T	9	1	0,75	1 - 230 V 3 - 400 V 3 - 230 V	5,9 2,2 3,8	30			58	55	51	46	29	20		11
SCM 4 PLUS-115/95 M SCM 4 PLUS-115/95 T SCM 4 PLUS-115/95 T	13	1,5	1,1	1 - 230 V 3 - 400 V 3 - 230 V	7,8 3 5,2	40			83	80	74	67	43	30		18
SCM 4 PLUS-115/122 M SCM 4 PLUS-115/122 T	17	2	1,5	1 - 230 V 3 - 400 V	10,2 4	50			109	106	98	88	55	38		21
SCM 4 PLUS-115/185 T	24	3	2,2	3 - 400 V	5,6				160	153	143	130	85	58		31
SCM 4 PLUS-115/245 T	33	4	3	3 - 400 V	7,5				218	210	198	179	118	84		47

# NOCCHI SCM 4 PLUS 150

## 4" MULTISTAGE CENTRIFUGAL SUBMERSIBLE PUMPS COMPLETE WITH MOTOR

### HYDRAULIC PERFORMANCE



The power curve refers to the brake horse power (BHP) per stage.  $\eta_p$  indicates the pump hydraulic efficiency  
 MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

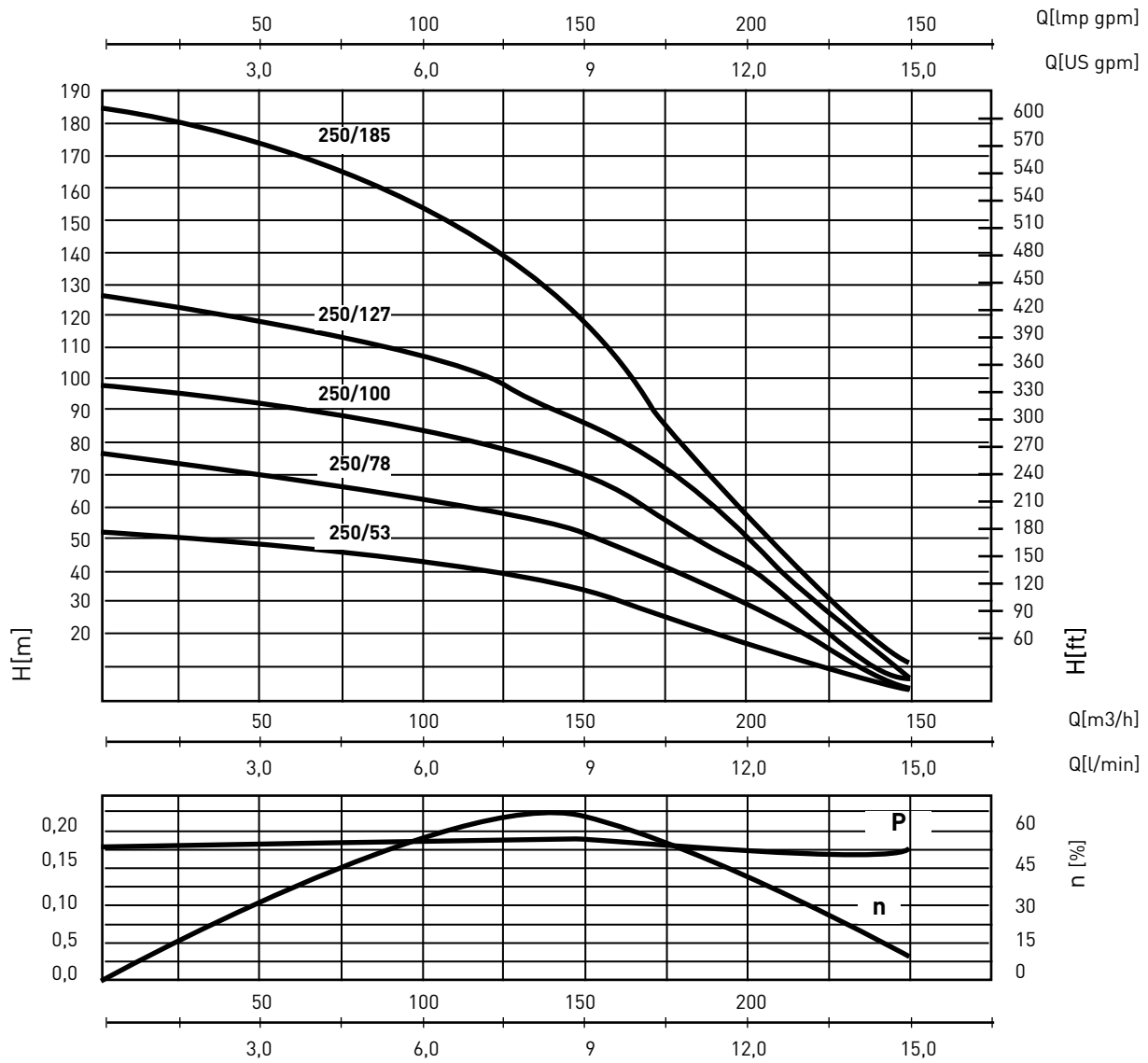
### PUMP PERFORMANCE

MODEL	N° Stages	Motor power		VOLT	In (A)	$\mu F.$	Q	L/1'	40	50	60	80	100	120	140	$\emptyset$ DNM
		HP	kW						2,4	3	3,6	4,8	6	7,2	8,4	
SCM 4 PLUS-150/42 M SCM 4 PLUS-150/42 T SCM 4 PLUS-150/42 T	6	1	0,75	1 ~ 230V 3 ~ 400 V 3 ~ 230 V	5,9 2,2 3,8	30	m.c.a. / m.c.w.		38	37	36	33	26	17	10	2"
SCM 4 PLUS-150/64 M SCM 4 PLUS-150/64 T SCM 4 PLUS-150/64 T	9	1,5	1,1	1 ~ 230 V 3 ~ 400 V 3 ~ 230 V	7,8 3 5,2	40		59	58	57	50	39	27	15		
SCM 4 PLUS-150/84 M SCM 4 PLUS-150/84 T SCM 4 PLUS-150/84 T	12	2	1,5	1 ~ 230 V 3 ~ 400 V 3 ~ 230 V	10,2 4 5,2	50		80	78	75	64	50	34	20		
SCM 4 PLUS-150/120 T	17	3	2,2	3 ~ 400 V	5,6			116	113	108	96	77	53	26		
SCM 4 PLUS-150/170 T	24	4	3	3 ~ 400 V	7,5			160	157	152	134	106	69	30		
SCM 4 PLUS-150/200 T	29	5,5	4	3 ~ 400 V	10,1			191	188	179	152	112	71	32		
SCM 4 PLUS-150/300 T	42	7,5	5,5	3 ~ 400 V	13,6			292	290	285	252	210	155	82		

# NOCCHI SCM 4 PLUS 250

## 4" MULTISTAGE CENTRIFUGAL SUBMERSIBLE PUMPS COMPLETE WITH MOTOR

### HYDRAULIC PERFORMANCE



The power curve refers to the brake horse power (BHP) per stage.  $\eta_p$  indicates the pump hydraulic efficiency  
 MEI  $\geq$  0,1 - Benchmark MEI  $\geq$  0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

### PUMP PERFORMANCE

MODEL	N° Stages	Motor power		VOLT	In (A)	$\mu$ F.	Q	L/1'	100	120	140	180	200	220	240	$\emptyset$ DNM
		HP	kW						6	7,2	8,4	10,8	12	13,2	14,4	
SCM 4 PLUS-250/53 M	9	2	1,5	1 ~ 230V	10,2	50	m.c.a. / m.c.w.		43	41	37	26	18	11	4	2"
SCM 4 PLUS-250/53 T				3 ~ 400 V	4											
SCM 4 PLUS-250/53 T				3 ~ 230 V	6,9											
SCM 4 PLUS-250/78 T	13	3	2,2	3 ~ 400 V	5,6	63			59	54	41	30	18	7		
SCM 4 PLUS-250/100 T	17	4	3	3 ~ 400 V	7,5	83			78	66	54	41	24	9		
SCM 4 PLUS-250/127 T	21	5,5	4	3 ~ 400 V	10,1	106	100	90	68	49	31	14				
SCM 4 PLUS-250/185 T	31	7,5	5,5	3 ~ 400 V	13,6	152	141	127	81	57	36	18				

# SCM 4 HF 400

## 4" MULTISTAGE CENTRIFUGAL SUBMERSIBLE PUMPS COMPLETE WITH MOTOR



BUILT TO DELIVER LONG TERM, TROUBLE-FREE SERVICE, HIGH HYDRAULIC EFFICIENCY, HIGH FLOW

SCM 4HF 400 high flow rate submersible pumps consist of a multistage hydraulic end directly connected to a submersible motor. Especially suitable for pumping from deep Ø 4" (100 mm) wells

### APPLICATIONS

- Pumping of water from drilled wells
- Automatic systems for garden irrigation
- Surface irrigation for agricultural use
- Pumping and supply of stored deposits or of booster autoclaves for industrial systems
- Heat pumps

### USAGE LIMITATION

- Type of liquid: clean, non aggressive, non-explosive, free of solids
- Maximum liquid temperature 35° C
- Max. start-ups per hour 30
- Motor protection with thermal relay provided by the user

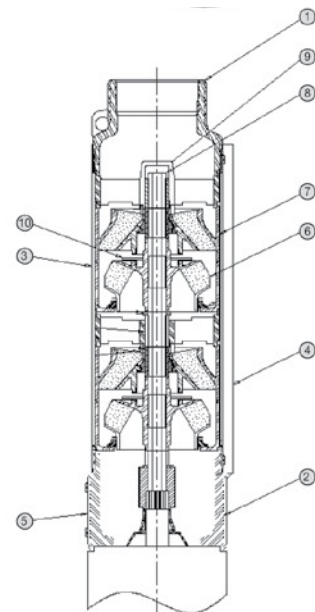
### MOTOR

- 4" submersible motor
- Special resin impregnated sealed stator
- Water-cooled thrust bearings and bushes
- Approx. 1,75 m extendible power supply cable
- Non-polluting water cooling
- 4" NEMA flange
- Level of protection IP68
- Class B insulation
- Speed of rotation 2850 rpm
- Special mechanical seal with sand guard
- Pressure compensation diaphragm
- Supplied without capacitor (single phase version)
- Suitable for continuous use
- Electrical control panel on request



### DESIGN FEATURES

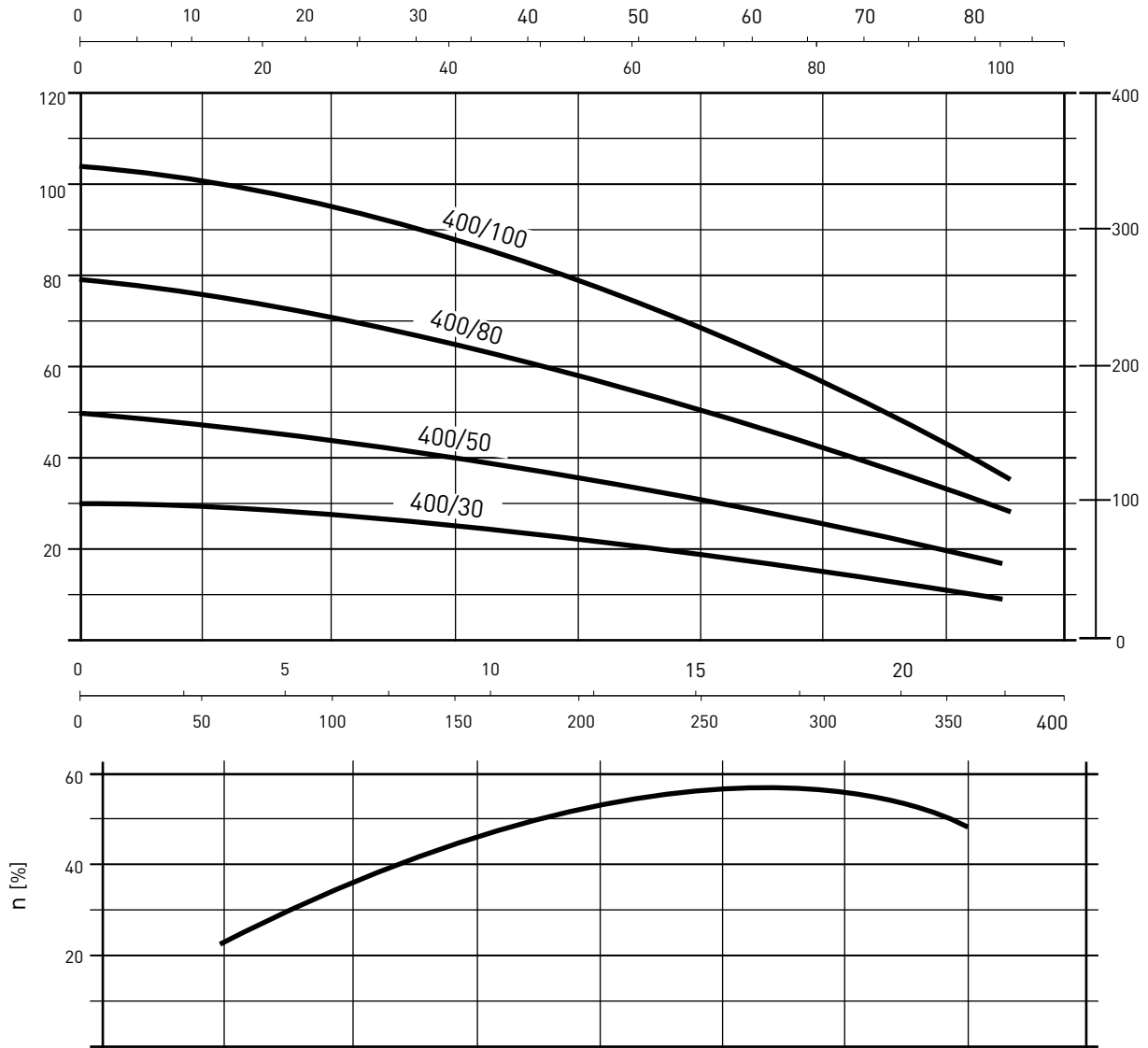
Component	Material
1 Discharge	300 series stainless steel - 2" BSP threads
2 Motor bracket	Microcast stainless steel (300 series)
3 Shell	300 series stainless steel
4 Cable guard	300 series stainless steel
5 Screen	300 series stainless steel
6 Impeller	Glass filled Polycarbonate
7 Diffuser	Glass filled Noryl® Thrust ring inserted in every stage
8 Motor shaft (hydraulic end)	Hexagonal in stainless steel (300 series)
9 Top bearing	Acetal
10 Washer / thrust	Phenolic



# NOCCHI SCM 4 HF 400

## 4" MULTISTAGE CENTRIFUGAL SUBMERSIBLE, PUMPS COMPLETE WITH MOTOR

### HYDRAULIC PERFORMANCE



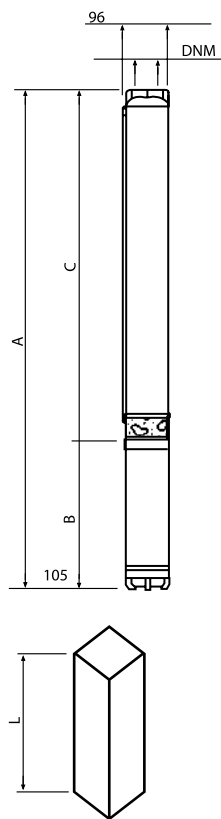
MEI ≥ 0,1 - Benchmark MEI ≥ 0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

# NOCCHI SCM 4 HF 400

## 4" MULTISTAGE CENTRIFUGAL SUBMERSIBLE, PUMPS COMPLETE WITH MOTOR

### PUMP PERFORMANCE

MODEL	Nominal power (P2)		VOLT	In (A)	μF	Stadi Stages	Q	L/1'	100	150	200	250	300	350
	HP	kW						m³/h	6	9	12	15	15	21
SCM4HF 400/30 M	2	1,5	1 - 230 V	10,2	50	7	m.c.a./m.c.w.		27,4	25	22,2	19,5	15,5	
SCM4HF 400/30 T			3 - 400 V	4										
SCM4HF 400/50 T	3	2,2	3 - 400 V	5,6		43			39,2	35,5	31,1	25,1	19,2	
SCM4HF 400/80 T	5,5	4	3 - 400 V	10,1		71			65	57,7	50,3	42,2	32,6	
SCM4HF 400/100 T	7,5	5,5	3 - 400 V	13,6		96,3			88,8	80	69,6	57,7	43	



### TABLE OF SIZES AND WEIGHTS

MODEL	A Total length mm	B Motor length mm	C Pump length mm	DNM	L Packing length mm	Total Weight kg
SCM4HF 400/30 M	1050	375	675	2"	1120	21,5
SCM4HF 400/30 T	1015	340	675		1120	19
SCM4HF 400/50 T	1055	375	680		1120	21,5
SCM4HF 400/80 T	1635	555	1080		2590	33
SCM4HF 400/100 T	2235	675	1560		2590	39,4

# NOCCHI SA

## 6" MULTISTAGE SUBMERSIBLE PUMPS COMPLETE WITH MOTOR



INTEGRATED CHECK VALVE

The SA submerged pumps consist of a multistage pumping unit directly connected to a submersible motor. Especially suitable for pumping from deep 6" (150mm) Ø wells. Flow rate up to 1100 l/min.

### APPLICATIONS

- Civil and industrial supply systems
- Overhead or surface irrigation
- Boosting
- Firefighting
- Various civil and industrial applications
- Mains water supply systems
- Heat pumps

### USAGE LIMITATION

- Type of liquid: clean non-aggressive, non-explosive, free of solids
- Maximum liquid temperature 35° C
- Max. start-ups per hour: 20
- Motor protection with thermal relay provided by the user
- Maximum quantity of sand present: 40 g/m<sup>3</sup>

### MOTOR

- 6" submersible motor
- Special resin impregnated sealed stator
- Water-cooled thrust bearings and bushes
- Approx. 1.75 m extendible power supply cable
- Non-polluting water cooling
- 6" NEMA flange
- Level of protection IP68.
- Class F insulation
- Speed of rotation 2850 rpm
- Special mechanical seal with sand guard
- Pressure compensation diaphragm
- Suitable for continuous use
- Electrical control panel on request
- Direction of rotation anticlockwise (seen from the delivery end)

### DESIGN FEATURES

Component	Material
Outlet	X5 CrNi 1810 (AISI 304) stainless steel
Suction flange	X5 CrNi 1810 (AISI 304) stainless steel
Outer liner	X5 CrNi 1810 (AISI 304) stainless steel
Cable protection filter and trough	X5 CrNi 1810 (AISI 304) stainless steel
Shaft	AISI 420 stainless steel
Impeller	Noryl
Diffuser	Noryl



# NOCCHI SA 615

## 6" MULTISTAGE SUBMERSIBLE PUMPS COMPLETE WITH MOTOR

### HYDRAULIC PERFORMANCE

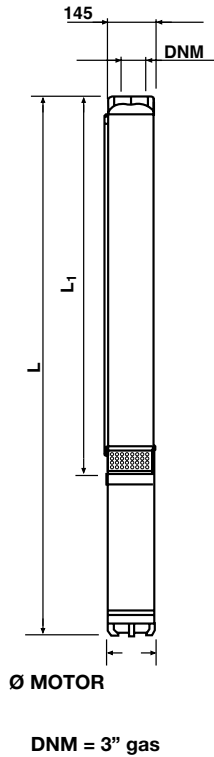
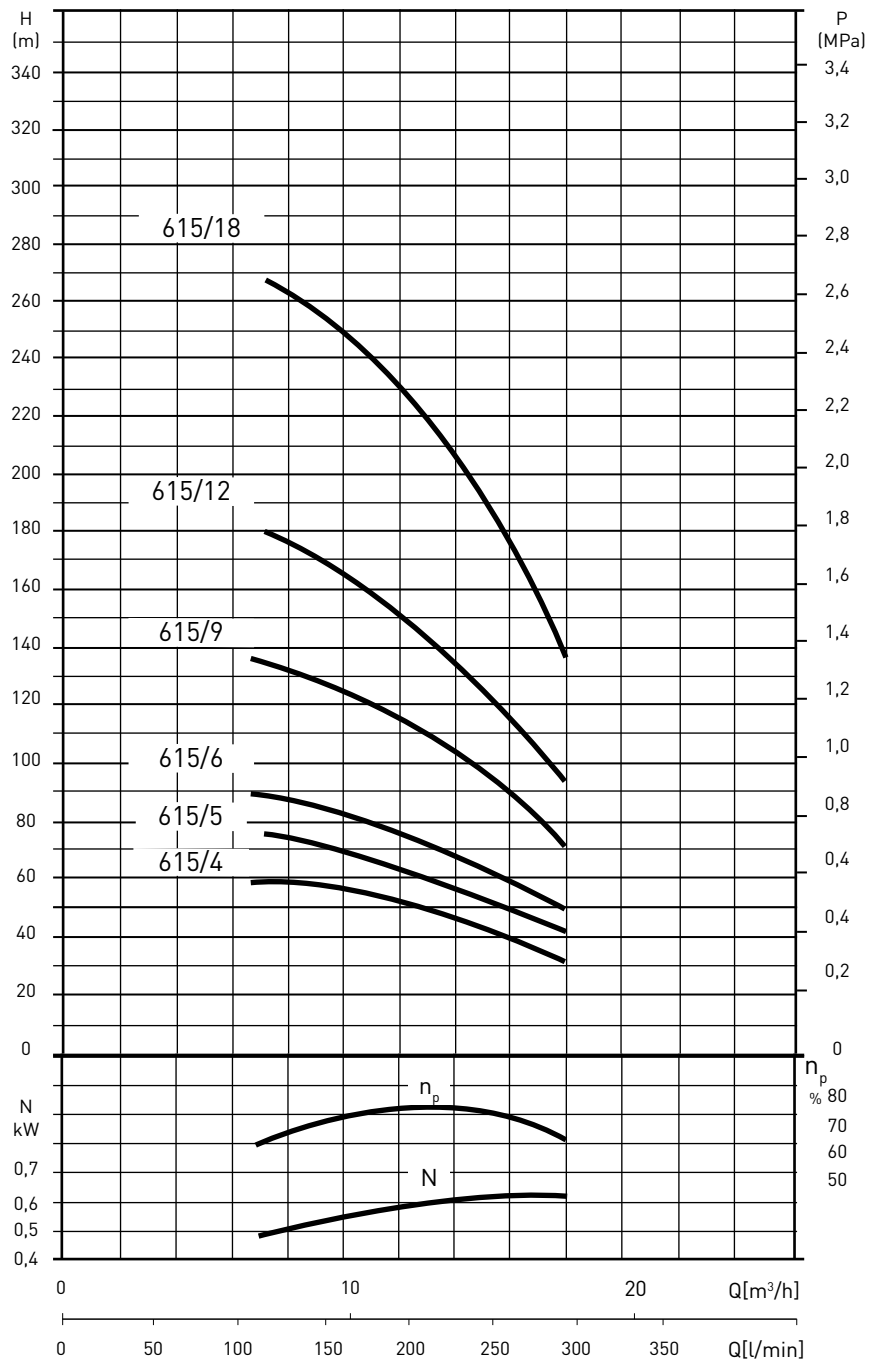


TABLE OF SIZES AND WEIGHTS

MODEL	Pump body		Pump	
	L <sub>1</sub> (mm)	Motor (mm)	L (mm)	Weight (Kg)
SA 615/4	440	95	815	22
SA 615/5	478	95	958	27
SA 615/6	516	95	1071	33
SA 615/9	630	95	1305	40
SA 615/12	744	138	1412	62
SA 615/18	972	138	1706	73



The power curve refers to the brake horse power (BHP) per stage.  $\eta_p$ % indicates the pump hydraulic efficiency  
MEI  $\geq$  0,1 - Benchmark MEI  $\geq$  0,70 - Information on benchmark efficiency is available at [www.euroupump.org/efficiencycharts](http://www.euroupump.org/efficiencycharts)

### PUMP PERFORMANCE

MODEL	Nominal power (P2)		VOLT	In (A)	Stadi Stages	Q	L/1'							
	HP	kW					0	120	160	200	230	260	300	
SA 615/4*	3	2,2	3 ~ 400 V	5,6	4	m.c.a./m.c.w.	0	7,2	9,6	12	13,8	15,6	18	
SA 615/5*	4	3	3 ~ 400 V	7,5	5		62	60	55	51	46	39	31	
SA 615/6*	5,5	4,0	3 ~ 400 V	10,1	6		78	74	69	63	57	49	39	
SA 615/9*	7,5	5,5	3 ~ 400 V	13,6	9		94	89	82	75	68	58	46	
SA 615/12	10	7,5	3 ~ 400 V	17,6	12		140	134	123	113	101	88	70	
SA 615/18	15	11	3 ~ 400 V	24,6	18		187	179	166	152	136	118	92	
							281	268	250	231	210	180	13	

\* WITH 4" MOTOR



# NOCCHI SA 625

## 6" MULTISTAGE SUBMERSIBLE PUMPS COMPLETE WITH MOTOR

### HYDRAULIC PERFORMANCE

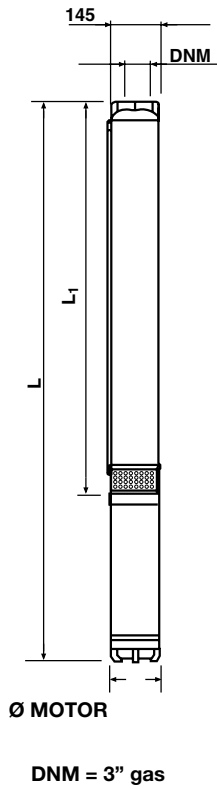
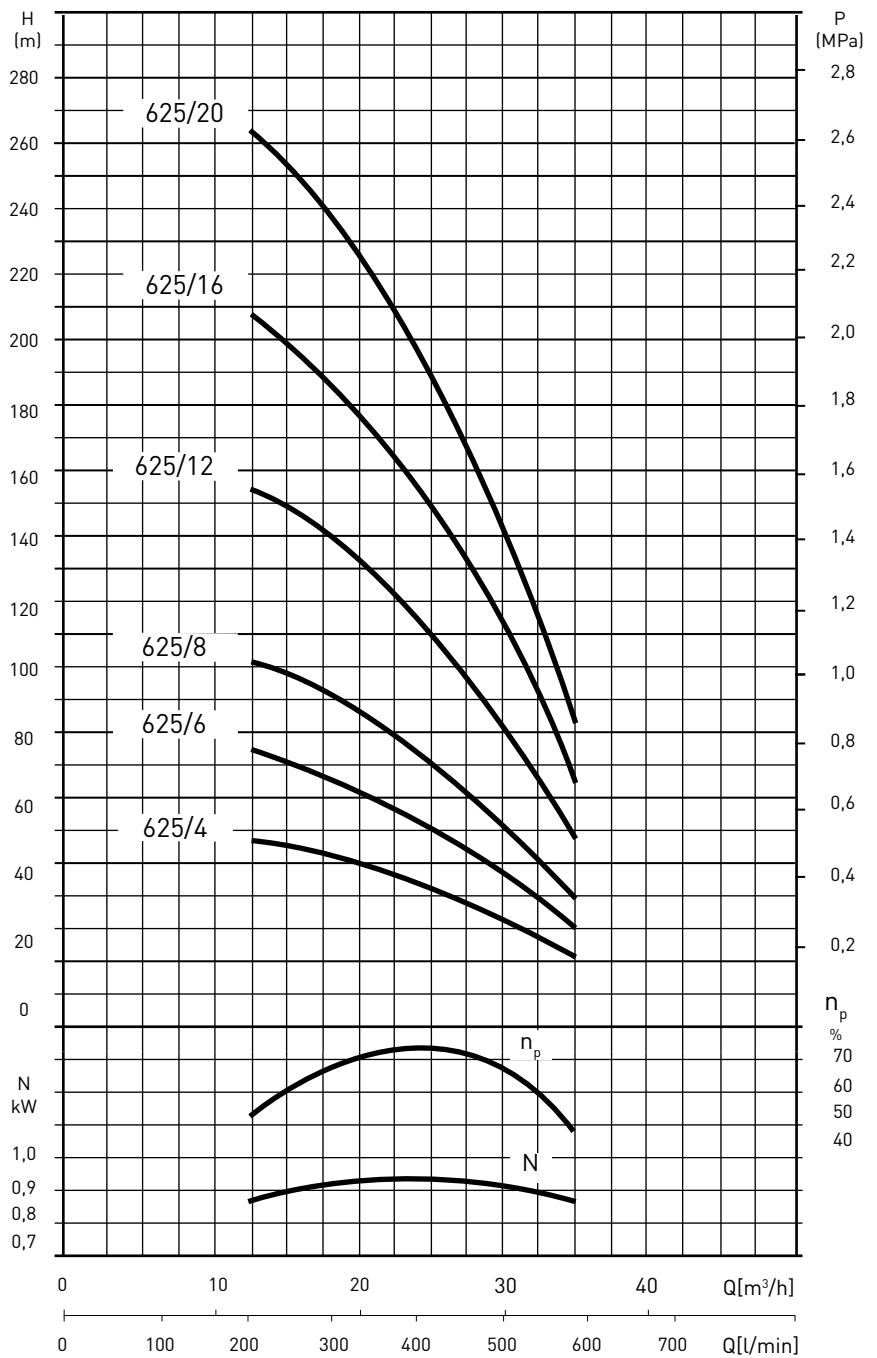


TABLE OF SIZES AND WEIGHTS

MODEL	Pump body	Ø	Pump	
	L <sub>1</sub> (mm)		MOTOR (mm)	L (mm)
SA 625/4	516	95	1071	32
SA 625/6	630	95	1305	40
SA 625/8	744	138	1412	50
SA 625/12	972	138	1706	72
SA 625/16	1200	138	2019	83
SA 625/20	1480	138	2371	96



The power curve refers to the brake horse power (BHP) per stage.  $\eta_p$  % indicates the pump hydraulic efficiency  
MEI  $\geq 0,1$  - Benchmark MEI  $\geq 0,70$  - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

### PUMP PERFORMANCE

MODEL	Nominal power (P2)		VOLT	In (A)	Stadi Stages	Q	L/1'							
	HP	kW					m.c.a. / m.c.w.							
							0	200	300	350	400	500	600	
SA 625/4*	5,5	4,0	3 - 400 V	10,1	4	m.c.a. / m.c.w.	0	12	18	21	24	30	34	
SA 625/6*	7,5	5,5	3 - 400 V	13,6	6		61	53	48	44	40	28	17	
SA 625/8	10	7,5	3 - 400 V	17,6	8		91	80	71	66	59	43	25	
SA 625/12	15	11	3 - 400 V	24,6	12		122	106	95	87	79	58	34	
SA 625/16	20	15	3 - 400 V	32,8	16		182	159	143	131	119	88	50	
SA 625/20	25	18,5	3 - 400 V	39,5	20		243	212	190	177	159	118	67	
							304	265	238	220	198	146	84	

\* WITH 4" MOTOR

# NOCCHI SA 630

## 6" MULTISTAGE SUBMERSIBLE PUMPS COMPLETE WITH MOTOR

### HYDRAULIC PERFORMANCE

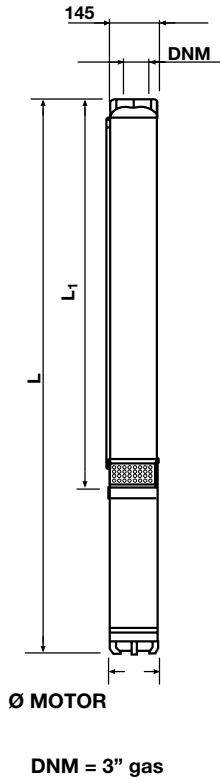
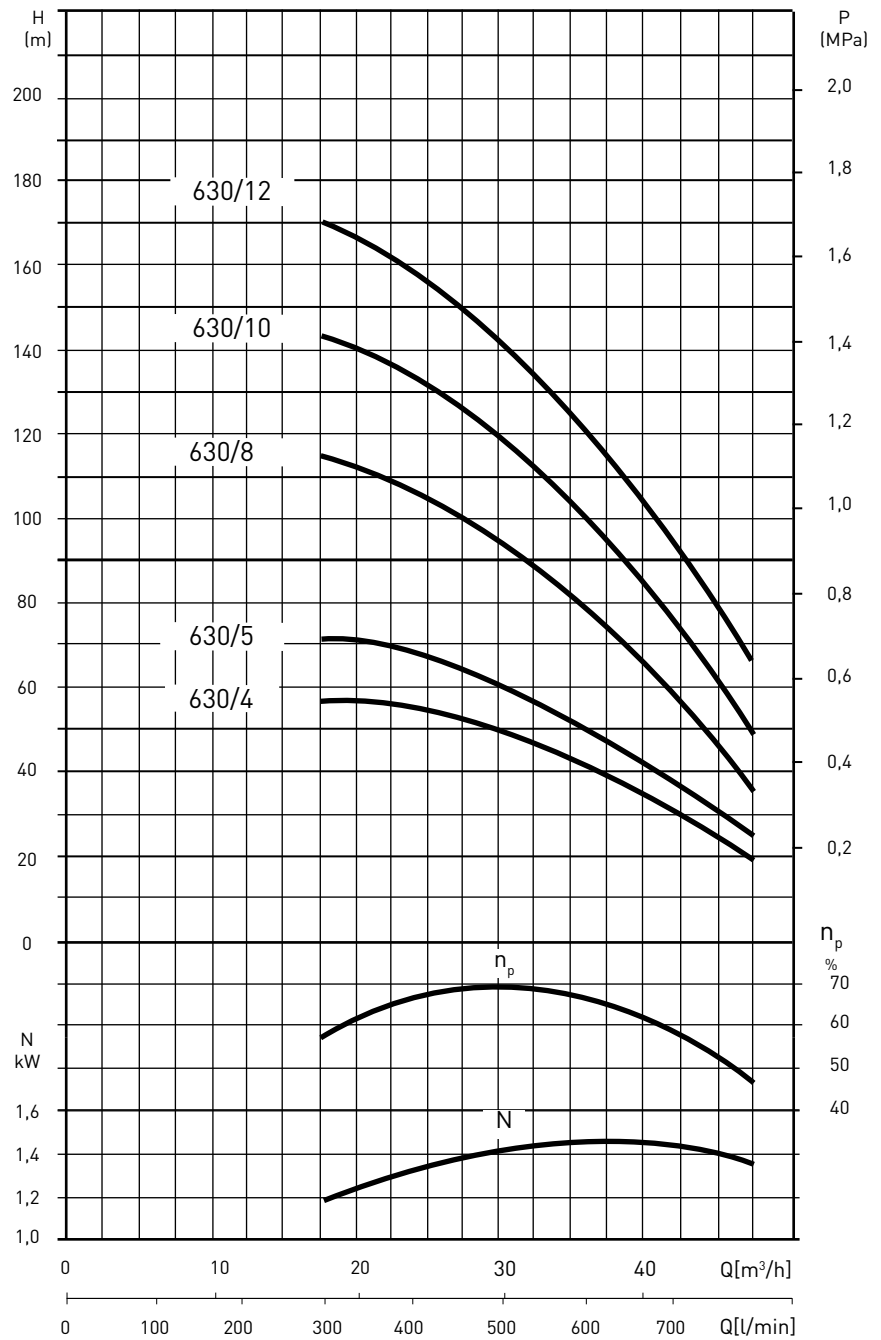


TABLE OF SIZES AND WEIGHTS

MODEL	Pump body	Ø	Pump	
	L <sub>1</sub> (mm)		MOTOR (mm)	L (mm)
SA 630/4	528	95	1203	38
SA 630/5	588	138	1256	59
SA 630/8	768	138	1502	68
SA 630/10	888	138	1707	78
SA 630/12	1008	138	1899	88



The power curve refers to the brake horse power (BHP) per stage.  $\eta_p$  indicates the pump hydraulic efficiency

MEI  $\geq$  0,1 - Benchmark MEI  $\geq$  0,70 - Information on benchmark efficiency is available at [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts)

### PUMP PERFORMANCE

MODEL	Nominal power (P2)		VOLT	In (A)	Stadi Stages	Q	L/1'							
	HP	kW					0	300	400	500	600	700	800	
							m³/h	0	18	24	30	36	42	48
SA 630/4*	7,5	5,5	3 - 400 V	13,6	4	m.c.a. / m.c.w.	63	57	53	47	40	30	19	
SA 630/5	10	7,5	3 - 400 V	17,6	5		78	72	67	59	50	37	23	
SA 630/8	15	11	3 - 400 V	24,6	8		126	114	106	94	80	62	37	
SA 630/10	20	15	3 - 400 V	32,8	10		157	143	133	119	101	76	45	
SA 630/12	25	18,5	3 - 400 V	39,5	12		188	171	160	143	122	92	55	

\* WITH 4" MOTOR

# NOCCHI SA 650

## 6" MULTISTAGE SUBMERSIBLE PUMPS COMPLETE WITH MOTOR

### HYDRAULIC PERFORMANCE

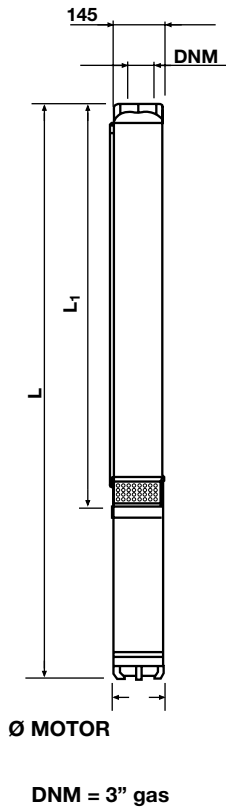
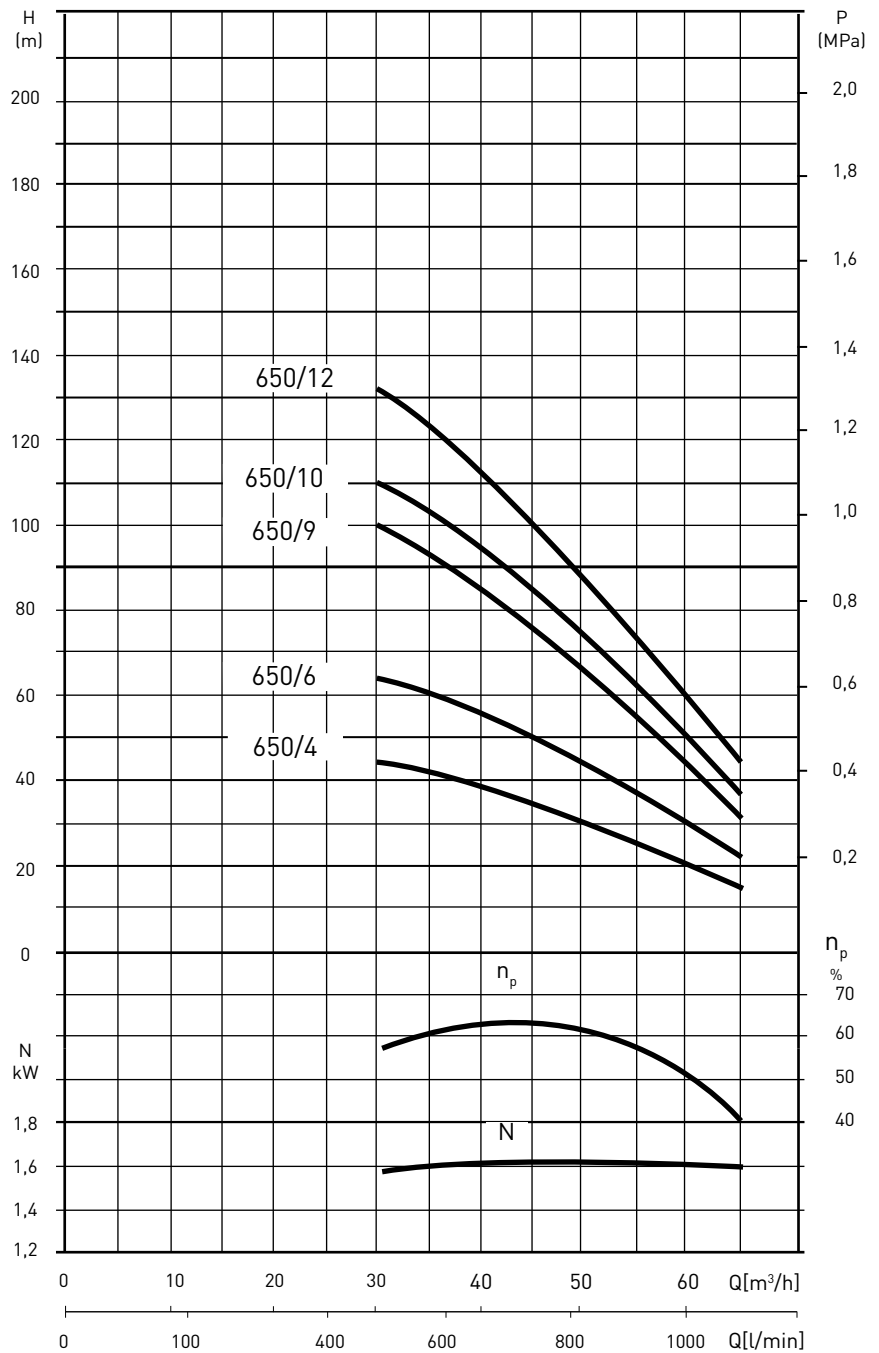


TABLE OF SIZES AND WEIGHTS

MODEL	Pump body	Ø	Pump	
	L <sub>1</sub> (mm)		MOTOR (mm)	L (mm)
SA 650/4	528	138	1196	58
SA 650/6	648	138	1382	66
SA 650/9	828	138	1647	77
SA 650/10	888	138	1779	86
SA 650/12	1008	138	1979	99



The power curve refers to the brake horse power (BHP) per stage.  $\eta_p$  % indicates the pump hydraulic efficiency  
 MEI  $\geq$  0,1 - Benchmark MEI  $\geq$  0,70 - Information on benchmark efficiency is available at [www.eurpump.org/efficiencycharts](http://www.eurpump.org/efficiencycharts)

### PUMP PERFORMANCE

MODEL	Nominal power (P2)		VOLT	I <sub>n</sub> (A)	Stadi Stages	Q	L/1'													
	HP	kW					Q													
							0	600	700	800	900	1000	1100							
SA 650/4	10	7,5	3 ~ 400 V	17,6	4	m.c.a. / m.c.w.	0	36	42	48	54	60	66	54	40	35	31	25	19	13
SA 650/6	15	11	3 ~ 400 V	24,6	6		81	59	53	46	37	29	20	81	59	53	46	37	29	20
SA 650/9	20	15	3 ~ 400 V	32,8	9		122	90	80	68	57	44	30	122	90	80	68	57	44	30
SA 650/10	25	18,5	3 ~ 400 V	39,5	10		135	101	90	77	63	49	33	135	101	90	77	63	49	33
SA 650/12	30	22	3 ~ 400 V	44	12		162	120	107	93	75	59	40	162	120	107	93	75	59	40

# NOCCHI PUMP END SA

## 6" MULTISTAGE SUBMERSIBLE PUMPS COMPLETE WITH MOTOR



MODEL	Q	L/1'	0	120	160	200	230	260	300	NECESSARY MOTOR
SA 615/4*	m.c.a./m.c.w.		62	60	55	51	46	39	31	HP 3
SA 615/5*			78	74	69	63	57	49	39	HP 4
SA 615/6*			94	89	82	75	68	58	46	HP 5.5
SA 615/9*			140	134	123	113	101	88	70	HP 7.5
SA 615/12			187	179	166	152	136	118	92	HP 10
SA 615/18			281	268	250	231	210	180	13	HP 15

MODEL	Q	L/1'	0	200	300	350	400	500	600	NECESSARY MOTOR
SA 625/4*	v.c.a./m.c.w.		61	53	48	44	40	28	17	HP 5.5
SA 625/6*			91	80	71	66	59	43	25	HP 7.5
SA 625/8			122	106	95	87	79	58	34	HP 10
SA 625/12			182	159	143	131	119	88	50	HP 15
SA 625/16			243	212	190	177	159	118	67	HP 20
SA 625/20			304	265	238	220	198	146	84	HP 25

MODEL	Q	L/1'	0	300	400	500	600	700	800	NECESSARY MOTOR
SA 630/4*	m.c.a./m.c.w.		63	57	53	47	40	30	19	HP 7.5
SA 630/5			78	72	67	59	50	37	23	HP 10
SA 630/8			126	114	106	94	80	62	37	HP 15
SA 630/10			157	143	133	119	101	76	45	HP 20
SA 630/12			188	171	160	143	122	92	55	HP 25

MODEL	Q	L/1'	0	600	700	800	900	1000	1100	NECESSARY MOTOR
SA 650/4	m.c.a./m.c.w.		54	40	35	31	25	19	13	HP 10
SA 650/6			81	59	53	46	37	29	20	HP 15
SA 650/9			122	90	80	68	57	44	30	HP 20
SA 650/10			135	101	90	77	63	49	33	HP 25
SA 650/12			162	120	107	93	75	59	40	HP 30

\* For 4" motors

# 4"-6" MOTORS

## ELECTRIC MOTORS Ø 4" - 6" FOR SUBMERSIBLE PUMPS

4" SINGLE PHASE

Code	Model	Voltage V	Thrust Load N	kW	Hp	In A	I start A	RPM	CosØ	Ts/Tn	EFF %	C run µF	Weight KG	H mm	Cable length mt
222P0590	4ESM kW0,37/Hp 0,5 1~230V 50Hz	1-230	1500	0,37	0,5	3,4	11	2850	0,91	0,65	58	16	6,8	250	1,75
222P0600	4ESM kW0,55/Hp 0,75 1~230V 50Hz	1-230	1500	0,55	0,75	4,4	16,6	2840	0,92	0,63	62	20	8,1	265	1,75
222P0610	4ESM kW0,75/Hp 1 1~230V 50Hz	1-230	1500	0,75	1	5,9	19,8	2860	0,94	0,62	65	30	10,6	295	1,75
222P0620	4ESM kW1,1/Hp 1,5 1~230V 50Hz	1-230	3000	1	1,5	7,8	29,5	2850	0,94	0,62	66	40	11,2	340	1,75
222P0630	4ESM kW1,5/Hp 2 1~230V 50Hz	1-230	3000	1,5	2	10,2	36,4	2850	0,95	0,61	68	50	14	375	1,75

4" THREE PHASE

Code	Model	Voltage V	Thrust Load N	kW	Hp	In A	I start A	RPM	CosØ	Ts/Tn	EFF %	Weight KG	H mm	Cable length mt
221P1190	4ESM kW0,37/Hp 0,5 3~400V 50Hz	3-400	1500	0,37	0,5	1,2	5,1	2840	0,73	2,1	63	5,8	235	1,75
221P1200	4ESM kW0,55/Hp 0,75 3~400V 50Hz	3-400	1500	0,55	0,75	1,7	6,5	2840	0,73	2	64	7	250	1,75
221P1210	4ESM kW0,75/Hp 1 3~230V 50Hz	3-230	1500	0,75	1	3,8	15,9	2840	0,75	1,9	67	8,3	265	1,75
221P1220	4ESM kW0,75/Hp 1 3~400V 50Hz	3-400	1500	0,75	1	2,2	9,2	2840	0,75	1,9	67	8,3	265	1,75
221P1230	4ESM kW1,1/Hp 1,5 3~230V 50Hz	3-230	1500	1,1	1,5	5,2	24,6	2840	0,76	2,3	71	10,9	295	1,75
221P1240	4ESM kW1,1/Hp 1,5 3~400V 50Hz	3-400	3000	1,1	1,5	3	14,2	2840	0,76	2,3	71	10,9	295	1,75
221P1360	4ESM kW1,5/Hp 2 3~230V 50Hz	3-230	3000	1,5	2	6,09	32	2830	0,78	2,1	72	11,4	340	1,75
221P1250	4ESM kW1,5/Hp 2 3~400V 50Hz	3-400	3000	1,5	2	4	18,5	2830	0,78	2,1	72	11,4	340	1,75
221P1260	4ESM kW2,2/Hp 3 3~400V 50Hz	3-400	3000	2,2	3	5,6	26,5	2830	0,79	2,4	74	14,2	375	2,5
221P1270	4ESM kW3/Hp 4 3~400V 50Hz	3-400	6500	3	4	7,5	34,3	2830	0,79	2,2	76	18,3	480	2,5
221P1280	4ESM kW4/Hp 5,5 3~400V 50Hz	3-400	6500	4	5,5	10,1	44	2840	0,77	2,3	75	23,4	555	2,5
221P1290	4ESM kW5,5/Hp 7,5 3~400V 50Hz	3-400	6500	5,5	7,5	13,6	62	2840	0,8	2,2	76	29,4	675	4

6" THREE PHASE

Code	Model	Voltage V	Thrust Load N	kW	Hp	In A	RPM	CosØ	EFF %	Weight KG	H mm	Cable length mt
222P1310	6ESM kW 7,5/Hp 10 3~400V 50Hz	3-400	15500	7,5	10	17,6	2820	0,82	77	49	668	4
222P1320	6ESM kW 11/Hp 15 3~400V 50Hz	3-400	15500	11	15	24,6	2830	0,85	78	56	734	4
222P1330	6ESM kW 15/Hp 20 3~400V 50Hz	3-400	15500	15	20	32,8	2830	0,86	78,5	64	819	4
222P1340	6ESM kW 18,5/Hp 25 3~400V 50Hz	3-400	15500	18,5	25	39,5	2830	0,87	80	72	891	4
222P1350	6ESM kW 22/Hp 30 3~400V 50Hz	3-400	15500	22	30	44	2830	0,89	83,7	83	971	4

# 4"-6" MOTORS


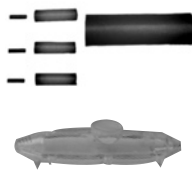
## SELECTION OF ELECTRIC CABLE FOR SUBMERSIBLE PUMPS



4ESM Motor	HP	kW	CABLE SECTION (mm²)					
			4X1	4X1,5	4X2,5	4X4	4X6	4X10
SINGLE-PHASE 230V/50Hz	0,5	0,37	50	75	125			
	0,75	0,55	38	57	65	152		
	1	0,75	30	45	75	120	174	
	1,5	1,1	22	33	53	85	127	210
	2	1,5		23	38	63	92	154
	3	2,2			28	45	67	112
THREE-PHASE 400V/50Hz	0,5	0,37	240					
	0,75	0,55	164	246				
	1	0,75	133	200	333			
	1,5	1,1	97	146	244	390		
	2	1,5	72	109	180	290	435	
	3	2,2	51	78	130	207	310	516
	4	3	41	62	104	167	250	416
	5,5	4	31	46	77	124	186	310
7,5	5,5		33	56	90	135	225	
THREE-PHASE 230V/50Hz	0,5	0,37	90	135				
	0,75	0,55	60	90	150	240		
	1	0,75	47	71	118	190		
	1,5	1,1	35	52	87	140	210	
	2	1,5	26	40	66	106	160	266
	3	2,2		29	48	76	115	191
	4	3			37	60	90	150
	5,5	4			27	44	66	110
	7,5	5,5				32	48	80

6ESM Motor	HP	kW	CABLE SECTION (mm²)					
			4X4	4X6	4X10	4X16	4X25	4X35
THREE-PHASE 400V/50Hz	7,5	5,5	108	161	265	415		
	10	7,5	84	126	207	325		
	15	11	59	87	144	223	347	
	20	15		65	107	167	258	350
	25	15,5			87	136	210	295
	30	22			75	117	181	246

### CABLES AND JUNCTIONS

	ZA000420 ZA000430 ZA000440 ZA000450 ZA000460 ZA000470	vCABLE 4X1 CABLE 4X1,5 CABLE 4X2,5 CABLE 4X4 CABLE 4X6 CABLE 4X10	NEOPRENE H07 RNF 4 WIRE CABLE 1 MM2 WIRES NEOPRENE H07 RNF 4 WIRE CABLE 1,5 MM2 WIRES NEOPRENE H07 RNF 4 WIRE CABLE 2,5 MM2 WIRES NEOPRENE H07 RNF 4 WIRE CABLE 4 MM2 WIRES NEOPRENE H07 RNF 4 WIRE CABLE 6 MM2 WIRES NEOPRENE H07 RNF 4 WIRE CABLE 10 MM2 WIRES
	ZA003370 ZA003390 ZA003380 ZA009410 ZA009430 ZA009450	JOINT KIT 2,5 JOINT KIT 6 JOINT KIT 10 JOINT 2,5 JOINT 6 JOINT 10	HEAT-SHRINK SPLICING KIT FOR CABLES UP TO 4 X 2,5 HEAT-SHRINK SPLICING KIT FOR CABLES UP TO 4 X 6 RESIN FILLED SPLICING KIT HEAT-SHRINK SPLICING JOINT FOR CABLES UP TO 1 - 2,5 mmq HEAT-SHRINK SPLICING JOINT FOR CABLES UP TO 4 - 6 mmq RESIN FILLED SPLICING JOINT FOR CABLES UP TO 4 X 10 mmq

# NOCCHI DRENOX

## SUBMERSIBLE SUMP PUMPS FOR DRAINING CLEAR WATER

The DRENOX series pumps are built entirely in AISI 304 stainless steel. Cooling of the motor is via a heat exchange chamber that allows the machine to work for long periods when not completely submerged. Equipped with Ø 32 mm hose adapter. Automatic version equipped with float switch.

### MOTOR

- Dry motor with stainless steel casing
- Level of protection IP68
- Class F insulation
- Single phase power supply with capacitor permanently activated and thermal protection built into the motor winding
- Three phase power supply with external protection provided by the user
- Completely insulated cable connection chamber
- Self-lubricating ball bearings
- Speed of rotation 2850 rpm

### APPLICATIONS

- Drainage of seepage water, pumping of rain water, from a grating or drain, pumping of domestic waste water, drainage of environments, bathing and swimming pools, industrial applications
- Fountains and water features
- Surface irrigation

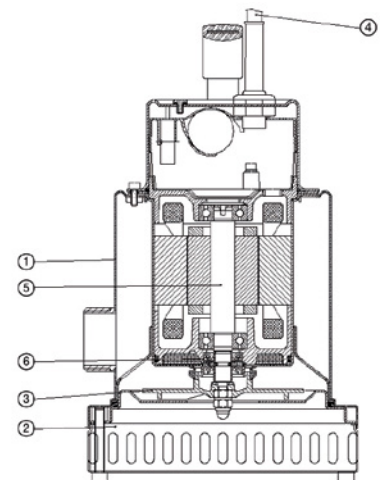
### USAGE LIMITATION

- Type of liquid: partially effluent and dirty clear water, non-aggressive liquids
- Maximum liquid temperature 40°C
- Maximum submersion under the water level 7m
- Minimum drainage level 3 mm for model 80/7,35 mm for the other models (manual version)
- Free clearance of solids 3 mm for models 80/7, 6 mm for the other models



### DESIGN FEATURES

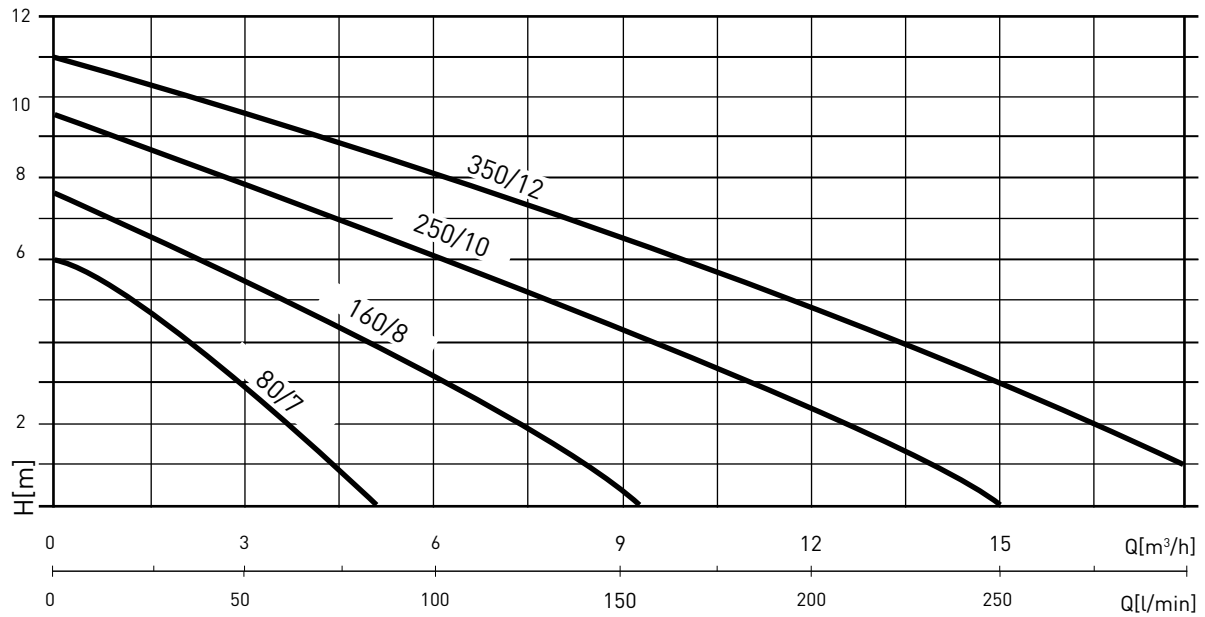
	Component	Material
1	Pump body	X 5 CrNi 1810 (AISI 304) Stainless steel
2	Suction grid	X 5 CrNi 1810 (AISI 304) Stainless steel
3	Impeller	X 5 CrNi 1810 (AISI 304) Cast stainless steel
4	Power cable	10m H07 RN-F with plug
5	Motor shaft	Stainless steel shaft with a ceramic facing at the points of seal wear
6	Seal	Fixed double NBR 70 rubber seal with special sand guard V-ring. Oil chamber for seal lubrication.



# NOCCHI DRENOX

## SUBMERSIBLE SUMP PUMPS FOR DRAINING CLEAR WATER

### HYDRAULIC PERFORMANCE



MODEL	Nominal power (P2)		Motor power (P1)		VOLT	In (A)	μF	Q	L/1'	10	40	60	80	120	160	240	300
	HP	kW	HP	kW					m³/h	0,6	2,4	3,6	4,8	7,2	9,6	14,4	300
DRENOX 80/7 DRENOX 80/7 AUT	0,3	0,2	0,4	0,3	1 - 220 ÷ 240 V	1,3	6,3	m.c.a. / m.c.w.	5,4	3,3	1,8						
DRENOX 160/8 DRENOX 160/8 AUT	0,55	0,40	0,75	0,55	1 - 220 ÷ 240 V	2,4	8		7	5,8	5	4,1	2,2				
DRENOX 250/10 DRENOX 250/10 AUT	0,75	0,55	1,2	0,9	1 - 220 ÷ 240 V	4,5	10		9,4	8,5	7,6	7,2	5,1	4,0	1		
DRENOX 350/12 DRENOX 350/12 AUT	1,1	0,8	1,6	1,2	1 - 220 ÷ 240 V	5,1	16		10,5	10	9,5	9	7,7	6,5	3,4	1	
DRENOX 350/12 T	1,1	0,8	1,6	1,2	3 - 400 V	2			10,5	10	9,5	9	7,7	6,5	3,4	1	

Automatic version equipped with float switch



# NOCCHI DRENOX

## SUBMERSIBLE SUMP PUMPS FOR DRAINING CLEAR WATER

### HYDRAULIC PERFORMANCE

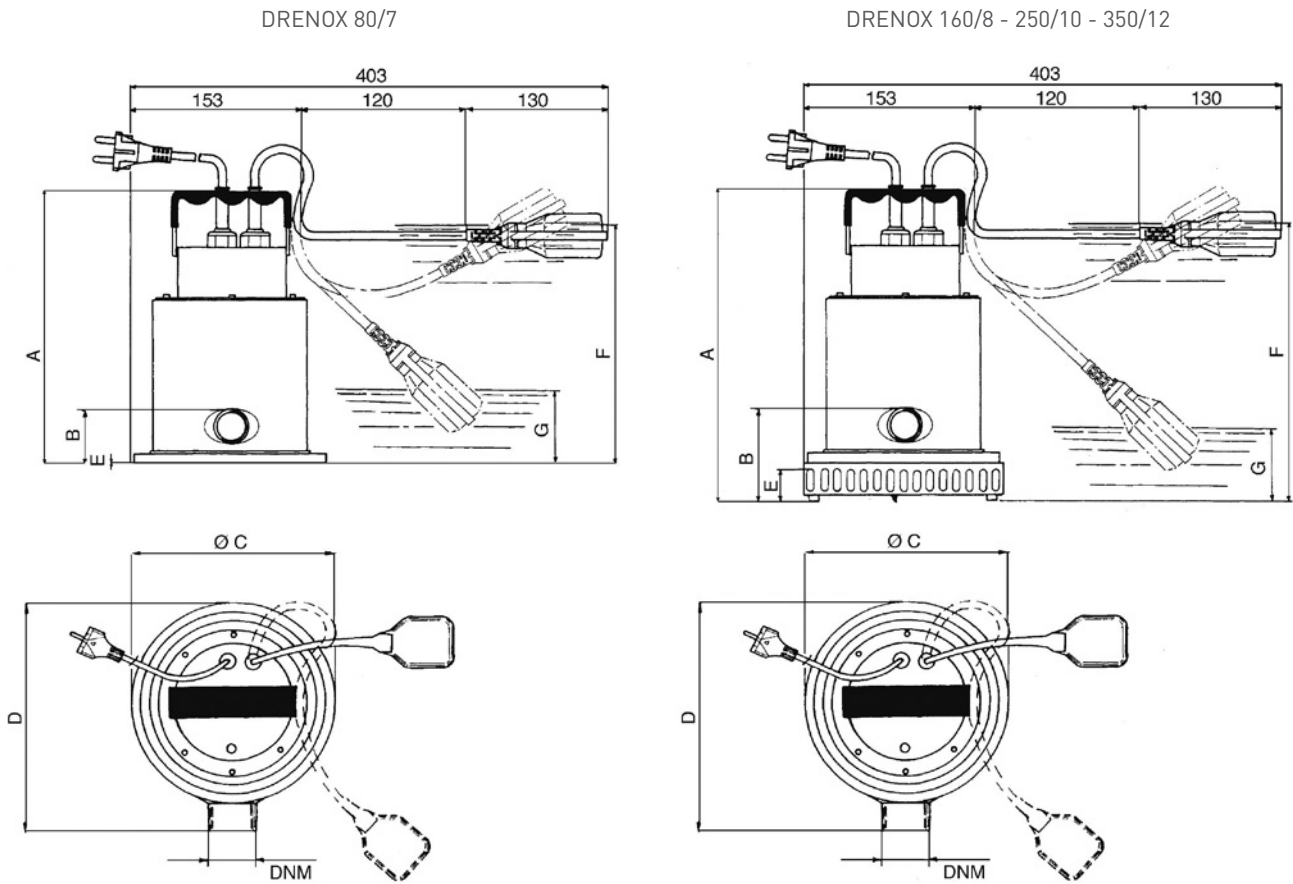


TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.									Weight (Kg)
	A	B	C	D	Minimum drainage level E*	Start level F	Stop level G	Free bore	DNM	
DRENOX 80/7	231	61	177	182	3	250	100	03	1" 1/4	5,7

\* Start and stop level refers to the version equipped with floating switch - The minimum drainage level refers to the manual version

TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.									Weight (Kg)
	A	B	C	D	Minimum drainage level E*	Start level F	Stop level G	Free bore	DNM	
DRENOX 160/8	300	94	177	182	35	320	107	06	1" 1/4	6,5
DRENOX 250/10	338	94	177	182	35	351	111	06	1" 1/4	7
DRENOX 350/12	338	94	177	182	35	351	111	06	1" 1/4	8,5

\* Start and stop level refers to the version equipped with floating switch - The minimum drainage level refers to the manual version

## NOCCHI OMNIA

### SUBMERSIBLE SUMP PUMPS FOR DIRTY WATER

The OMNIA series pumps are made entirely of AISI 304 stainless steel. Cooling of the motor is via a heat exchange chamber that allows the machine to work for long periods when not completely submerged. Equipped with Ø 32mm hose adapter. Automatic version equipped with float switch.

#### MOTOR

- Dry motor with stainless steel casing
- Level of protection IP68
- Class F insulation
- Single phase power supply with capacitor permanently activated
- Thermal protection built into the motor winding
- Completely insulated cable connection chamber
- Self-lubricating ball bearings
- Speed of rotation 2850 rpm

#### DESIGN FEATURES

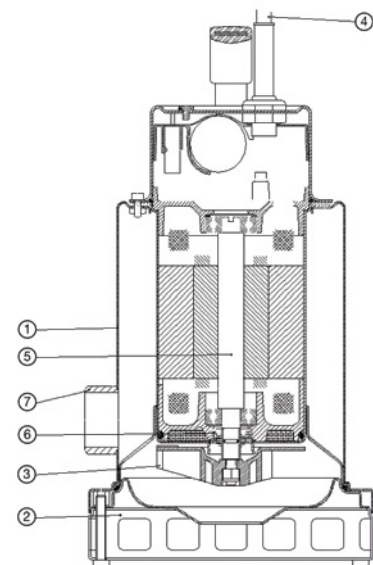
Component	Material
1 Pump body	X 5 CrNi 1810 (AISI 304) Stainless steel
2 Suction base	X 5 CrNi 1810 (AISI 304) Stainless steel
3 Impeller	X 5 CrNi 1810 (AISI 304) Stainless steel
4 Power cable	10m H07 RN-F with plug
5 Motor shaft	X 12 CrNiS 1809 (AISI 416) Stainless steel
6 Seal	Fixed double NBR 70 rubber lip seal. Oil chamber for seal lubrication.
7 Outlet	1" 1/4 gas male threaded

#### APPLICATIONS

- Pumping of domestic waste water, draining of environments, bathing and swimming pools, industrial applications
- Fountains and water features
- Surface irrigation

#### USAGE LIMITATION

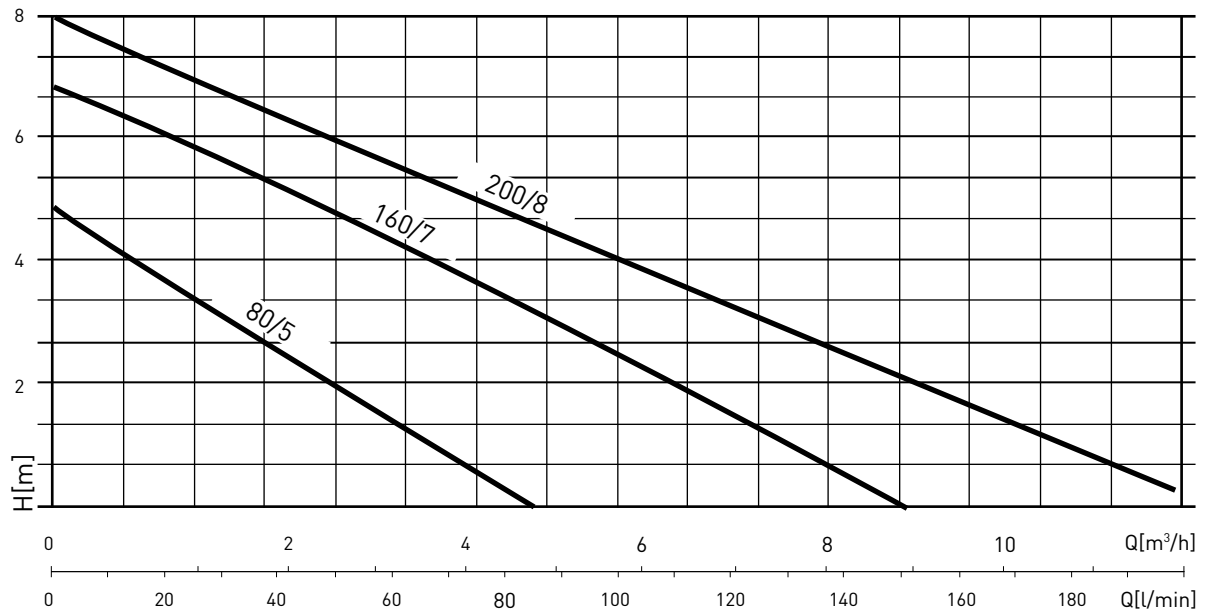
- Type of liquid: waste water with solids
- Maximum liquid temperature 40°C
- Maximum submersion under the water level 7m
- Minimum drainage level 35 mm (manual)
- Free clearance of solids 20 mm



# NOCCHI OMNIA

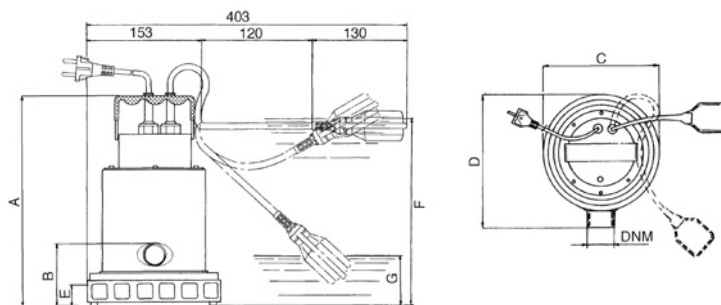
## SUBMERSIBLE SUMP PUMPS FOR DIRTY WATER

### HYDRAULIC PERFORMANCE



### PUMP PERFORMANCE

MODEL	Nominal power (P2)		Motor power (P1)		VOLT	In (A)	µF	Q	L/1'	10	40	70	100	140	200	
	HP	kW	HP	kW					m³/h	0,6	2,4	4,2	6	8,4	12	
OMNIA 80/5 OMNIA 80/5 AUT	0,3	0,2	0,4	0,3	1 ~ 220 ÷ 240 V	1,4	8	m.c.a. / m.c.w.	4,1	2,7	1					
OMNIA 160/7 OMNIA 160/7 AUT	0,5	0,37	0,7	0,5	1 ~ 220 ÷ 240 V	2,5	8		7	5,5	4	2,8	1			
OMNIA 200/8 OMNIA 200/8 AUT	0,7	0,5	1	0,75	1 ~ 220 ÷ 240 V	3,2	8		7,8	6,3	5,4	4,1	2,7	0,5		



### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.										Weight (Kg)
	A	B	C	D	Minimum drainage level E*	Start level F	Stop level G	Free bore	DNM		
OMNIA 80/5	264	94	177	182	35	250	100	020	1" 1/4	6,1	
OMNIA 160/7	300	94	177	182	35	320	107	020	1" 1/4	7	
OMNIA 200/8	338	94	177	182	35	351	111	020	1" 1/4	8,5	

\* Start and stop level refer to the version equipped with float switch. - The minimum drainage level refers to manual working.

# NOCCHI BIOX XS

## SUBMERSIBLE EFFLUENT VORTEX PUMPS FOR DIRTY WATER

SILICUM CARBIDE/SILICUM CARBIDE MECHANICAL SEAL

The BIOX XS series pumps are made entirely of AISI 304 stainless steel. They work completely submerged in the pumped liquid that cools the motor externally. Manufactured on the vortex operating principle with the impeller set back. Automatic version equipped with float switch.

### MOTOR

- Dry motor
- Level of protection IP 68
- Class F insulation
- Single phase power supply
- 230 V +- 10% 50 Hz with capacitor permanently activated and thermal protection built into the motor winding
- Completely insulated cable connection chamber
- Self-lubricating ball bearings
- Speed of rotation 2850 rpm

### DESIGN FEATURES

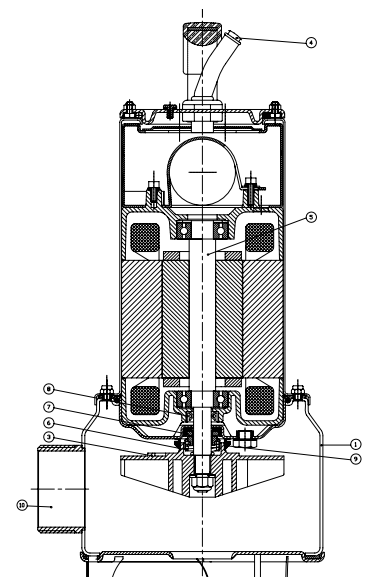
Component		Material	
1	Pump body	X 5 CrNi 1810 (AISI 304) Stainless steel	
2	Suction base	X 5 CrNi 1810 (AISI 304) Stainless steel	
3	Impeller	X 5 CrNi 1810 (AISI 304) Cast stainless steel	
4	Outlet	Threaded	
5	Power cable	10m H07 RN-F with plug	
6	Motor shaft	X 12 CrNiS 1809 (AISI 416) Stainless steel	
7	Mechanical seal	Silicium carbide	
8	Counterface	Silicium carbide	Oil chamber for seal lubrication
9	Tenuta secondaria	NBR rubber lip seal	
10	V-ring sand guard	NBR rubber	

### APPLICATIONS

- Applications of draining sewage with suspended solids
- Pumping stations with one or more pumps for civil and rural plants suitable for emptying of seepage water, emptying of cesspit and draining of sewage systems

### USAGE LIMITATION

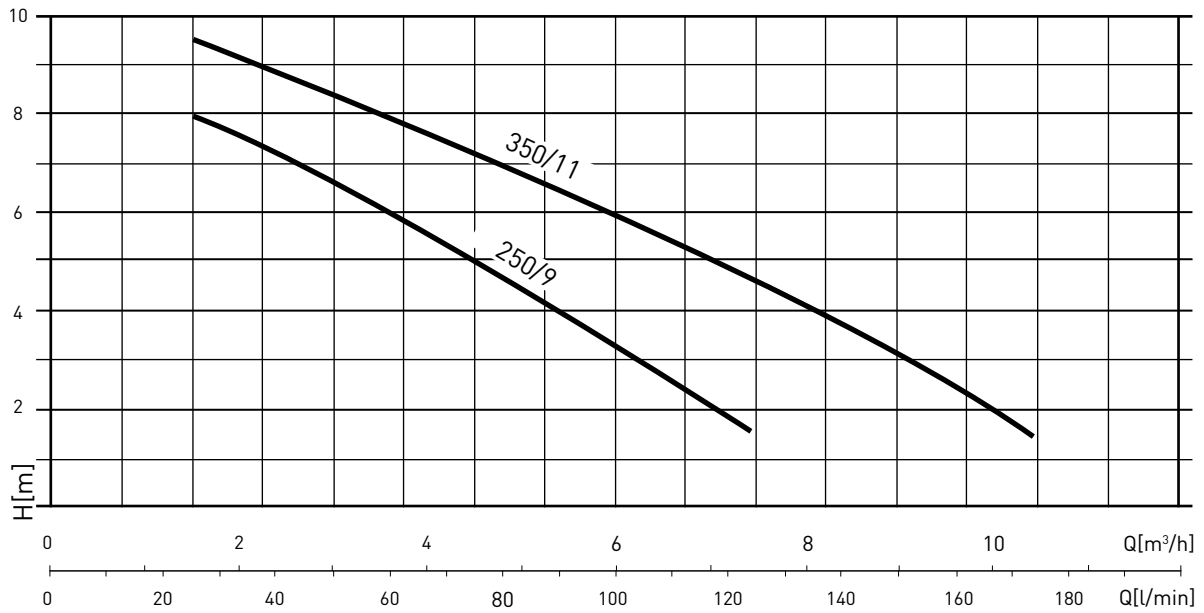
- Type of liquid: waste water and sewage with solids
- Maximum liquid temperature 40°C.
- Maximum submersion under the water level 7m
- Free clearance of solids: 40 mm



# NOCCHI BIOX XS

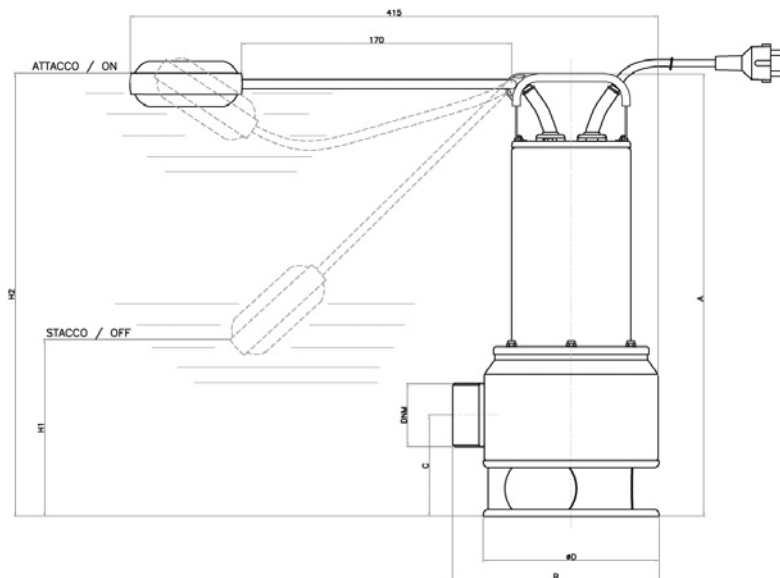
## SUBMERSIBLE EFFLUENT VORTEX PUMPS FOR DIRTY WATER

### HYDRAULIC PERFORMANCE



### PUMP PERFORMANCE

MODEL	Nominal power (P2)		Motor power (P1)		VOLT	In (A)	μF	Q	L/1'	50	100	150	200	250	300	350
	HP	kW	HP	kW					m³/h	3	6	9	12	15	18	21
BIOX 250/9 XS AUT	0.8	0.6	1.2	0.9	1 ~ 230	4.1	12,5	m.c.a. / m.l.v.	8	6,6	5,1	3,4	1,6			
BIOX 350/11 XS AUT	1.2	0.9	1.7	1.3	1 ~ 230	5,8	20		9,6	8,5	7,3	6	4,5	3	1,5	



### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.							Weight (Kg)
	A	B	C	D	DNM	H1	H2	
BIOX 250/9 XS AUT	389	196	96	168	1"1/2 GAS	250	370	9,8
BIOX 350/11 XS AUT	419	196	96	168	2" GAS	300	400	11,2

# NOCCHI PRIOX

## SUBMERSIBLE EFFLUENT VORTEX PUMPS FOR DIRTY WATER

The PRIOX series pumps are made entirely of AISI 304 stainless steel. They work completely submerged in the pumped liquid that cools the motor externally. Manufactured on the vortex operating principle with the impeller set back. Automatic version equipped with float switch.

### MOTOR

- Dry motor
- Level of protection I P 68
- Class F insulation
- Single phase power supply with capacitor permanently activated and thermal protection built into the motor winding
- Three phase power supply with external protection under care of the user (control panel on request)
- Completely insulated cable connection chamber
- Self-lubricating ball bearings
- Speed of rotation 2850 rpm

### APPLICATIONS

- All applications of pumping and draining effluent, civil and industrial sewage with suspended solids
- Pumping stations with one or more pumps for civil and industrial plants

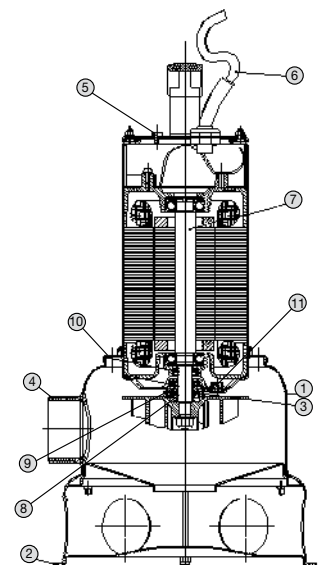
### USAGE LIMITATION

- Type of liquid: waste water and sewage with solids
- Maximum liquid temperature 40°C.
- Maximum submersion under the water level 7m
- Minimum drainage level 60 mm (manual version)
- Free clearance of solids: 40 mm 50mm (PRIOX 600/13 - PRIOX 800/18)



### DESIGN FEATURES

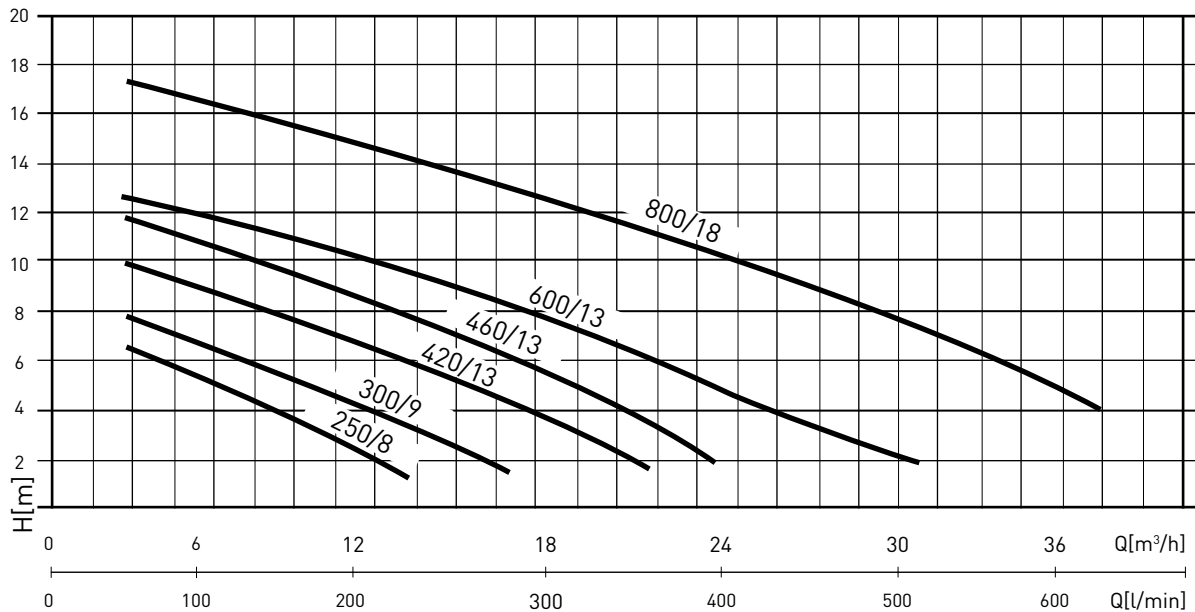
Component		Material	
1	Pump body	X 5 CrNi 1810 (AISI 304) Stainless steel	
2	Suction base	X 5 CrNi 1810 (AISI 304) Stainless steel	
3	Impeller	X 5 CrNi 1810 (AISI 304) Cast stainless steel	
4	Outlet	Threaded	
5	Cover	Cast stainless steel (Priox 800/18)	
6	Power cable	10m H0L RN-F with plug	
7	Motor shaft	X 12 CrNiS 1809 (AISI 416) Stainless steel	
8	Mechanical seal	Silicium carbide	Oil chamber for seal lubrication
9	Counterface	Silicium carbide	
10	Secondary seal	NBR rubber lip seal	
11	V-ring sand guard	NBR rubber	



# NOCCHI PRIOX

## SUBMERSIBLE EFFLUENT VORTEX PUMPS FOR DIRTY WATER

### HYDRAULIC PERFORMANCE

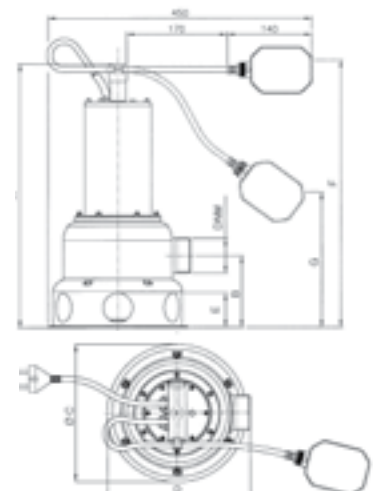


MODEL	Nominal power (P2)		Motor power (P1)		VOLT	In (A)	μF	Q	L/1'	50	100	150	200	250	300	400	500	550	600	650		
	HP	kW	HP	kW						m³/h	3	6	9	12	15	18	24	30	33	36	39	
PRIOX 250/8 M PRIOX 250/8 M AUT	0,75	0,55	1,1	0,8	1 ~ 230 V	3,6	14	m.c.a. / m.c.w.		6,5	5,2	3,4	2,0	0,2								
PRIOX 300/9 M PRIOX 300/9 M AUT	0,8	0,6	1,2	0,9	1 ~ 230 V	4,1	14			7,7	6,4	5	3,8	2,3	1							
PRIOX 300/9 T	0,8	0,6	1,2	0,9	3 ~ 400 V	1,55				7,7	6,4	5	3,8	2,3	1							
PRIOX 420/11 M PRIOX 420/11 M AUT	1,2	0,9	1,8	1,3	1 ~ 230 V	6	20			10	9	7,8	6,3	5	3,8	1						
PRIOX 420/11 T	1,2	0,9	1,8	1,3	3 ~ 400 V	2,3																
PRIOX 460/13 M PRIOX 460/13 M AUT	1,5	1,1	2,2	1,6	1 ~ 230 V	7,2	20			11,8	10,8	9,8	8,5	7	5,5	2						
PRIOX 460/13 T	1,4	1	2	1,45	3 ~ 400 V	2,4																
PRIOX 600/13 T	1,6	1,2	2,4	1,8	3 ~ 400 V	3,1				12,8	12,2	11,3	10,3	9,3	8	5,5	3	1,8				
PRIOX 800/18 T	3,2	2,4	4	3	3 ~ 400 V	5,5				17,3	16,5	15,6	14,7	13,7	12,7	10,5	8	6,7	5,4	4		

### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.										Weight (Kg)
	A	B	C	D	Minimum drainage level E*	Start level F	Stop level G	Free bore	DNM		
PRIOX 250/8	420	122,5	235	241	63	F*	G*	40	1 1/2"	9,4	
PRIOX 300/9	420	122,5	235	241	63	550	290	40	2"	9,6	
PRIOX 420/11	450	122,5	235	241	63	550	290	40	2"	11,2	
PRIOX 460/13	450	122,5	235	241	63	580	320	40	2"	11,7	
PRIOX 600/13	450	122,5	235	241	63	580	320	40	2"	12,6	
PRIOX 800/18	485,5	122,5	235	241	63	580	320	40	2"	20,2	

\* Start and stop level refer to the version equipped with float switch. The minimum drainage level refers to manual working.



## NOCCHI SIMER

### CENTRIFUGAL SUBMERSIBLE PUMPS FOR DRAINING CLEAR WATER

EXCELLENT FOR INDUSTRIAL DRAINAGE, MINIMUM DRAINAGE LEVEL 3 MM, EQUIPPED WITH 10M POWER CORD AND 3 STEPS ADAPTABLE CONNECTOR FOR HOSES

The SIMO submersible pumps for clear water have been designed for drainage of seepage water, pumping of water from sump pits, water deposits and collection tanks.

#### MOTOR

- Single-phase asynchronous oil cooled motor with capacitor permanently activated and thermal protection built into the motor winding
- Level of protection IPX8
- Class F insulation
- Speed rotation 2750 giri/1'

#### DESIGN FEATURES

Component	Materials
Pump body	Die cast aluminium
Impeller	Die cast zinc
Motor casing	Die cast aluminium
Power cord	H07RN-F 10m cable (rapid clutch)
Motor shaft	X 12 CrS 13 (AISI416) Stainless Steel
Gaskets / O-ring	NBR

#### APPLICATIONS

- Drainage of seepage water, pumping of rain water from grating or drain
- Emptying of water deposits, collection tanks and wells.

#### USAGE LIMITATIONS

- Type of liquid: clear water
- Maximum liquid temperature 50° C
- Maximum submersion under the water level 5.5 m
- Minimum drainage level 3 mm
- Minimum priming level 20 mm





# NOCCHI SIMER

## CENTRIFUGAL SUBMERSIBLE PUMPS FOR DRAINING CLEAR WATER

### HYDRAULIC PERFORMANCE

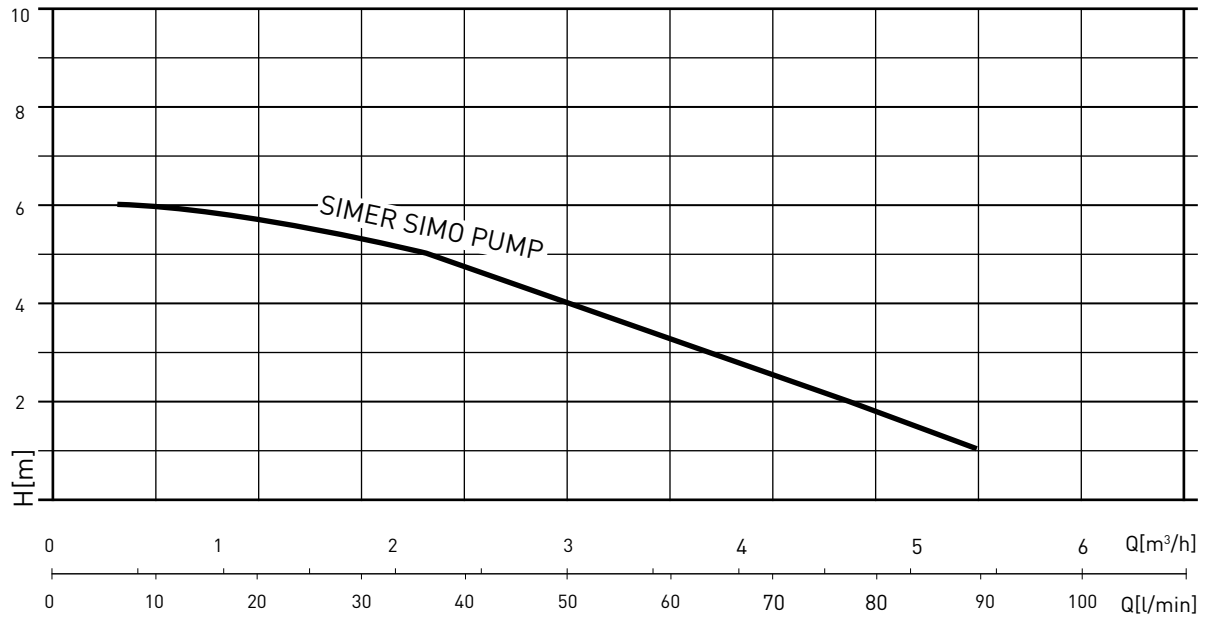


TABLE OF HYDRAULIC PERFORMANCE

MODEL	Absorbed Power		VOLT	Q	L/1'	0,1	0,6	0,8	1,1	1,3	1,5
	HP	kW			m³/h	0,4	2	3	4	4,8	5,4
SIMER SIMO PUMP	0,5	0,4	1 - 230 V	m.c.a./ m.c.w.	6	5	4	3	2	1	

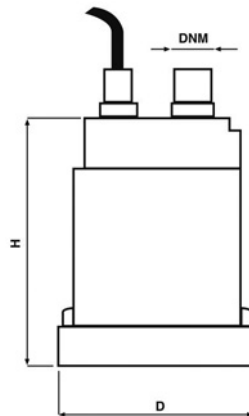


TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm			Weight (Kg)
	D	H	DNM	
SIMER SIMO PUMP	175	195	1" 1/4 F	5,0

## NOCCHI VERSAILLES

### SUBMERSIBLE PUMPS FOR FOUNTAINS AND WATER FEATURES

The VERSAILLES pumps have been designed for fountains, water features and waterfalls in water gardens.

#### USAGE LIMITATION

- Type of liquid: clean non-aggressive, non-explosive, free of solids
- Maximum liquid temperature 30° C
- Max. start-ups per hour: 20
- Motor protection with thermal relay provided by the user
- Maximum quantity of sand present: 40 g/m<sup>3</sup>

#### ACCESSORIES (OPTIONAL)

- Vulcano: adjustable water feature with three level jets
- Gaiser: adjustable water feature with a single foamy jet
- Campana: adjustable bell-shaped water feature
- Filters: sponge to be used for water features with clearances under 1.5 mm

#### DESIGN FEATURES

Component	Material
Suction grid	X 5 CrNi 1810 (AISI 304) Stainless steel
Base	X 5 CrNi 1810 (AISI 304) Stainless steel
Pump body	X 5 CrNi 1810 (AISI 304) Stainless steel
Impeller	X 5 CrNi 1810 (AISI 304) Die cast stainless steel
Power cable	10 m H07 RN-F With plug
Seal	Fixed double NBR 70 rubber seal with special sand guard V-ring
Motor shaft	X 12 CrS 13 (AISI 416) With ceramic facing at the points of wear
1" F reducer	Plastic

#### MOTOR

- Dry motor with stainless steel casing
- Level of protection IP68
- Class F insulation
- Single phase power supply with capacitor permanently activated
- Thermal protection built into the motor winding
- Completely insulated cable connection chamber
- Self-lubricating ball bearings
- Speed of rotation 2850 rpm
- Suitable for continuous use

#### APPLICATIONS

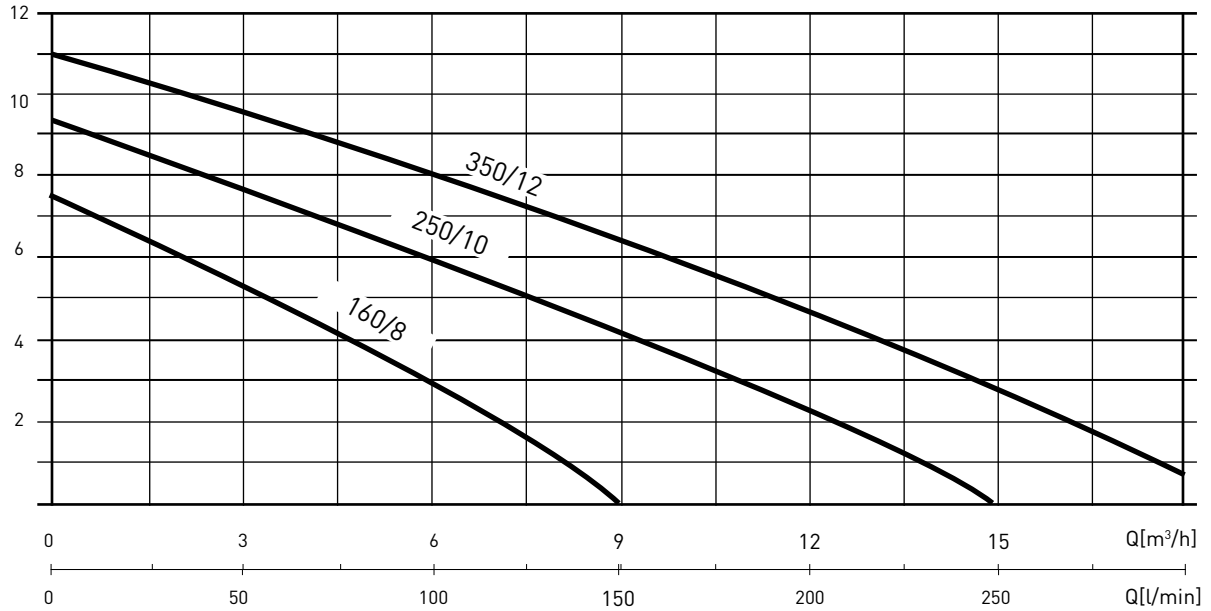
- For fountains, water features, waterfalls in water gardens.



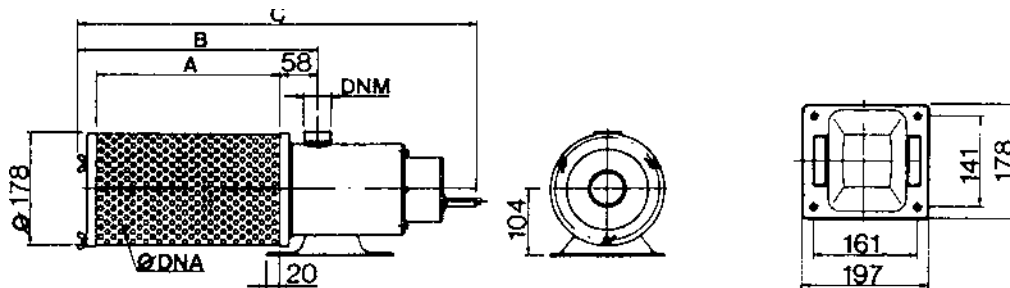
# NOCCHI VERSAILLES

## SUBMERSIBLE PUMPS FOR FOUNTAINS AND WATER FEATURES

### HYDRAULIC PERFORMANCE



MODEL	Nominal power (P2)		Motor power (P1)		VOLT	In (A)	μF	Q L/1'	Diameter and height of water features in cm		
	HP	kW	HP	kW					VULCANO	GAISER	CAMPANA
VERSAILLES 160/8	0,5	0,37	0,6	0,45	1 - 220 ÷ 240 V	2,2	8	m.c.a. / m.c.w.	Ø 180 - H 360	Ø 20 - H 110	Ø 90 - H 45
VERSAILLES 250/10	0,75	0,5	0,9	0,7	1 - 220 ÷ 240 V	4,5	10		Ø 200 - H 420	Ø 30 - H 180	Ø 95 - H 45
VERSAILLES 350/12	1,1	0,8	1,6	1,2	1 - 220 ÷ 240 V	5,1	16		Ø 200 - H 480	Ø 50 - H 230	Ø 100 - H 45
VULCANO											
GAISER											
CAMPANA											
FILTER 1 FOR MOD. 80/7 - 160/8											
FILTER 2 FOR MOD. 250/10 - 350/12											

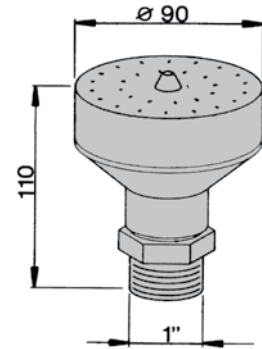


### TABLE OF SIZES AND WEIGHTS

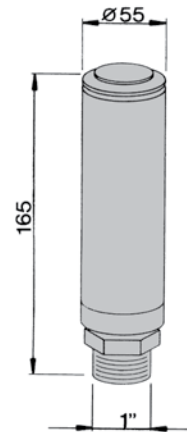
MODEL	Dimensions mm.					Weight (Kg)
	A	B	C	P.L.	DNM	
VERSAILLES 160/8	144	231	425	Ø 1,5	1" 1/4	7
VERSAILLES 250/10	285	372	620	Ø 1,5	1" 1/4	7,8
VERSAILLES 350/12	285	372	620	Ø 1,5	1" 1/4	9,3

# NOCCHI VERSAILLES

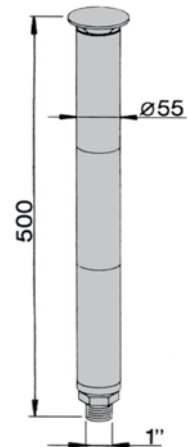
SUBMERSIBLE PUMPS FOR FOUNTAINS AND WATER FEATURES



VULCANO



GAISER



CAMPANA

## NOCCHI EXPANSION VESSEL STAINLESS STEEL

NOCCHI expansion tanks are made of AISI 304 stainless steel and are available in 7 models that are able to meet all the needs of civil and industrial plants and to guarantee the suitability of the product for food use. They are particularly recommended for use in humid environments. EC certified.

### HORIZONTAL VERSION

Interchangeable, 24- litre bromobutyl diaphragm with assembly bracket for the electric pump and support foot.

Preload: 1.5 bar

### UPRIGHT VERSION

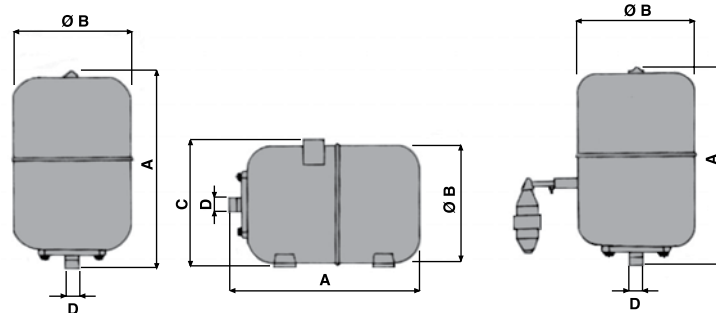
Interchangeable bromobutyl diaphragm with a capacity of 8-20-24 litres. The latter version is also available without diaphragm with an air feeder.

Preload: 1.5 bar



### TABLE OF CHARACTERISTICS

MODEL	Description	Diaphragm	Assembly Bracket	Assembly max operating pressure (bar)	Capacity lt
VES INOX N 8	vertical 8 lt stainless steel expansion tank	Bromobutyl	-	8	8
VES INOX N 20	vertical 20 lt stainless steel expansion tank	Bromobutyl	-	8	20
VES INOX N 24	vertical 24 lt stainless steel expansion tank	Bromobutyl	-	8	24
VES INOX N 24 H	horizontal 24 lt stainless steel expansion tank	Bromobutyl	yes	8	24
VAA 24	Stainless steel 24 lt tank, can be fitted with air feeder	-	-	8	24
-	Air supply kit with flexible cable	-	-	-	-



### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.				Weight (Kg)
	A	Ø B	C	D	
N 8	280	226	-	1"	2,4
N 20	390	272	-	1"	3,3
N 24	430	272	-	1"	5
N 24 H	430	272	330	1"	4,2
VAA 24	430	272	443	1"	4,2

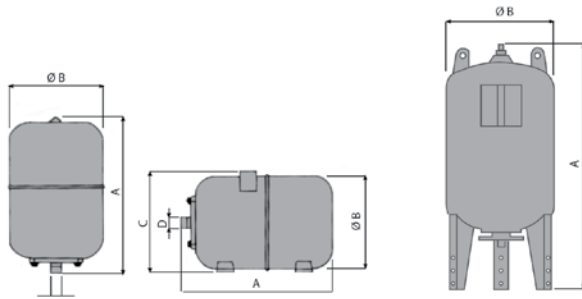
# NOCCHI EXPANSION VESSEL

## PAINTED STEEL

TABLE OF CHARACTERISTICS

MODEL	Description	Diaphragm	Assembly bracket	Max. operating pressure ( bar )	Capacity lt
VES 2	2 liter expansion tank	Food - quality rubber	-	6	2
VES 24 V	Vertical 24 liter expansion tank	Food - quality rubber	-	6	24
VES 24 H	Horizontal 24 liter expansion tank	Food - quality rubber	yes	6	24
VEC 60 V	Vertical 60 liter expansion tank	Butyl rubber	yes	10	60
VEC 100 V	Vertical 100 liter expansion tank	Butyl rubber	yes	10	100
VEC 200 V	Vertical 200 liter expansion tank	Butyl rubber	yes	10	200
VEC 300 V	Vertical 300 liter expansion tank	Butyl rubber	yes	10	300
VEC 500 V	Vertical 500 liter expansion tank	Butyl rubber	yes	10	500

Expansion tank for pressure assemblies, in painted steel, from 2 to 500 Lt., with interchangeable diaphragm. Stainless steel painted carbon flange. CE certificate. Preload: 1.5 bar for models from 2 to 24 Lt. 2.0 bar for models from 60 to 500 Lt. In compliance with EC standards



MODEL	Dimensions mm.				Weight (Kg)
	A	Ø B	C	D	
VES 2	175	155	-	1" M	0,950
VES 24 V	415	295	-	1" M	4,1
VES 24 H	415	-	310	1" M	4,8
VEC 60 V	845	382	-	1" M	17,5
VEC 100 V	950	450	-	1" M	19
VEC 200 V	1225	550	-	1" 1/2 M	37
VEC 300 V	1405	630	-	1" 1/2 M	54
VEC 500 V	1550	780	-	1" 1/2 M	104

## NOCCHI FLUSSCONTROL - F.BASIC

### ELECTRONIC CONTROL AND PROTECTION DEVICE FOR ELECTRIC SINGLE PHASE PUMP

FLUSSCONTROL controls the start-up and the stop of the pump. If no water is supplied, the electronic system stops the pump to protect it from dry running. After eliminating the causes of the stopping it is sufficient to press the red Restart button to restore normal operation. In case of a temporary electricity cut-off the device will automatically start up again when the power returns.

#### APPLICATIONS

- Start up and stop of single-phase surface of submersible pumps.
- It starts and stops the pump in accordance with the opening and closing of the taps.

#### ADVANTAGES

- Attenuates the effects of water hammering
- Replaces the traditional expansion tank system
- Maintenance-free
- Protection from dry running
- Easy to install
- Maintains constant pressure during delivery.



#### TABLE OF CHARACTERISTICS

	Flusscontrol	Flusscontrol basic
Power supply	230 V single phase	230 V single phase
Max. current	16 (8) A	16 (6) A
Max. absorbed power of the pump	1,5 kW (2 HP)	1,1 kW
Frequency	50-60 Hz	50-60 Hz
Protection level	IP 65	IP 65
Friction loss with a flow rate of 6 m <sup>3</sup> /h	0,95 bar	1,1 bar
Max. pressure	10 bar	8 bar
Max. liquide temp.	65° C	60° C
Max. environmental temp.	40° C	40° C
Weight	1,07 Kg	0,8 Kg

## NOCCHI QES PLUS

SINGLE PHASE STARTER FOR THE CONTROL AND PROTECTION OF SUBMERGED ELECTRIC PUMPS, DIRECT START

### MAIN COMPONENTS

- IP55 plastic box
- Main switch with circuit breaker and motor
- Protector with restart button
- Capacitor.
- Terminal board
- Cable gland

### TYPE OF FUNCTIONING

- Manual through general switch
- Automatic through external remote control (manostat, float...)

### OPTIONAL ACCESSORIES

- Float switch or pressure switch (see accessories table)

### TECHNICAL FEATURES

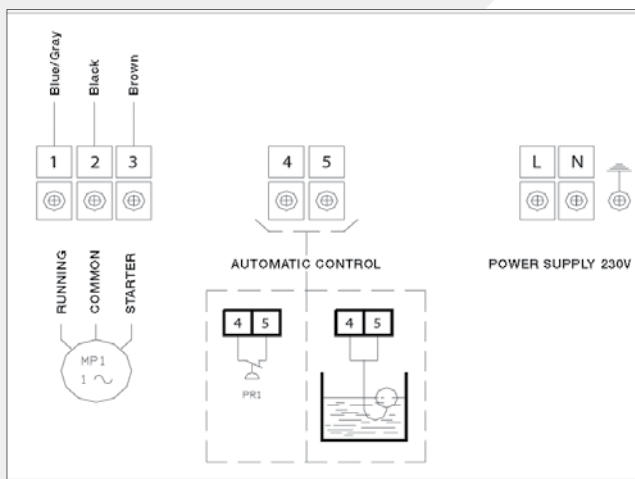
- Protection level : IP55
- Power supply voltage : 230V/ 1F 50 Hz
- External dimensions : 115 - 185 - 65 mm
- Weight : Kg 0,6

### LIMITS IN USE

- Environmental temperature : -5 / +40 °C
- Relative humidity : 50% at 40°C (without forming of condense)
- Standards : EN 60335-1 - EN 60439-1



MODEL	Volt	Nominal Power		Field A	µF	Suitable Pumps
		min kW	max kW			
QES PLUS 10/37 M	230 1F	0,37	0,55	4	16	SCM 4" PLUS SCM 4 HF 4" MOTORS
QES PLUS 10/55 M	230 1F	0,55	0,75	6	20	
QES PLUS 10/55 M	230 1F	0,55	0,75	6	25	
QES PLUS 10/75 M	230 1F	0,75	1	7	30	
QES PLUS 10/75 M	230 1F	0,75	1	7	35	
QES PLUS 10/110 M	230 1F	1,1	1,5	9	40	
QES PLUS 10/150 M	230 1F	1,5	2	12	50	





## NOCCHI AT

### THREE PHASE ELECTRIC CONTROL PANEL FOR SUBMERSIBLE ELECTRIC PUMP OR SURFACE PUMP WITH DIRECT STARTING

#### MAIN COMPONENTS

- Plastic housing
- Can be fitted with dry operating control with float, pressure switch or electric sensors.
- Voltage indicator lamp

#### OPERATION MODE

- Manual using MAN selector button
- Automatic via external remote controls (pressure witch, float) and/or water level control (filling, emptying, protection against dry operation).

#### USAGE LIMITATION

- Controlled by means of external starter switch
- Ambient temperature between -5 to +40°C (limit prescribed by European standard EN 60439-1)
- Maximum relative humidity of 50% at +40°C, provided there is no condensation (limit prescribed by European standard EN 60439-1)

#### TECHNICAL CHARACTERISTICS

- Power supply VOLTAGE: 3 x 400 V
- Frequency 50/60 Hz
- Power from 0.37 to 7.5 kW
- Direct motor starting
- Motor protection
- Protection class: IP54
- Outer dimensions: 260x195x180 mm
- Weight: 3.35 Kg

#### LIMITS IN USE

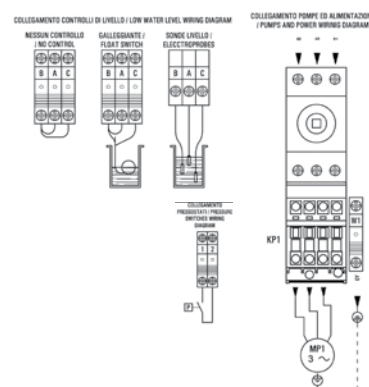
- Environmental temperature : -5 / +40 °C
- Relative humidity : 50% at 40°C (without forming of condense)
- Standards : EN 60335-1 - EN 60439-1

#### OPTIONAL ACCESSORIES

- ECL electrodes for water level control
- Floats or pressure switches



MODEL	Volt	Power		Field A		Compatible electric pumps	
		min kW	max kW	min	max	Surface	Submersible
Q. EL AT10 1-1,6 A 400V	3X400	0,37	0,55	1	1,6	VLR-VLRI-VLRX	
Q. EL AT10 1-2,5 A 400V	3X400	0,55	0,75	1,6	2,5	DHR-DHI-MCX	DOMINATOR 5"
Q. EL AT10 2,5-4 A 400V	3X400	0,75	1,5	2,5	4	MULTINOX-MAX	SCM 4" PLUS
Q. EL AT10 4-6,3 A 400V	3X400	1,5	2,2	4	6,3	MULTINOX-A	SCM 4 HF
Q. EL AT10 6,3-10 A 400V	3X400	2,2	4	6,6	10	MULTINOX-VE	MOTORI DA 4"
Q. EL AT1010-16 A 400V	3X400	4	7,5	10	16	JET-CM-CB-EP NRM	



# NOCCHI ADRM

## SINGLE PHASE STARTERS FOR THE CONTROL OF ONE OR TWO DRAINING AND SEWAGE ELECTRIC PUMPS

### MAIN COMPONENTS

- IP 54 metallic case
- General switch
- Fuse block with fuses for the electric pump
- Contactor with thermal relay
- Transformer for auxiliary circuit
- Fuse block with fuses on the auxiliary circuit
- Terminal board with level control devices
- Cable gland
- Function light
- Power led
- Thermal block light
- Level alarm

### TECHNICAL FEATURES

- Protection level : IP54
- Power supply voltage : 220V/240V 1F 50 Hz
- External dimensions : 220 x 270 x 185 mm

### TYPE OF FUNCTIONING

- Manual through general switch.
- Automatic through float switch.

### LIMITS IN USE

- Environmental temperature : -5 / +40 °C
- Relative humidity : 50% at 40°C (without forming of condense)
- Standards : EN 60730 - EN 60439

### ADRM 20

- Electronic signalling, control and command card equipped with cyclic startings converter
- For the control of two electric pumps
- Weight : Kg 7,5

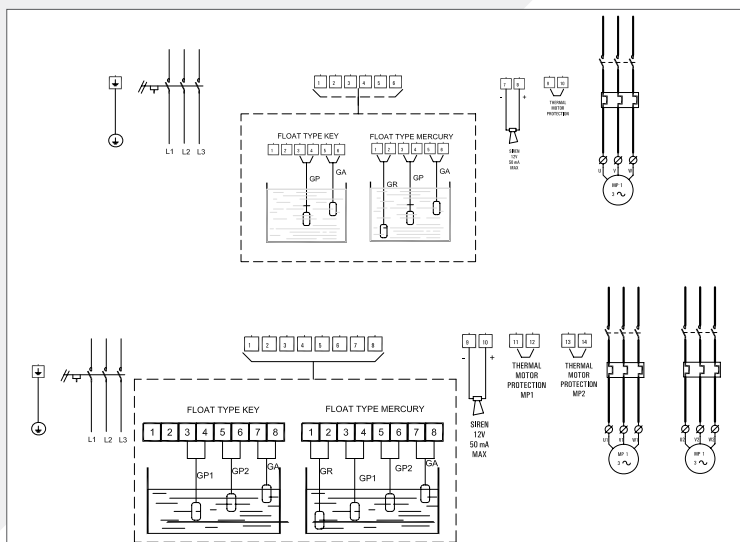
### ADRM 10

- Electronic signalling, control and command card
- For the control of one electric pump
- Weight : Kg 5,5

### OPTIONAL ACCESSORIES

- CE040030 - Panel wall mount fixing fins
- UZA00200 - Optical, acoustic alarm
- Float switches (see accessories table)

MODEL	Volt	Power		Field A		Suitable Pumps
		kW	Hp	min	max	
Q.E. ADRM10/55	230 1F	0,55	0,75	2,5	4	DRENOX OMNIA PRIOX MINIVORT P MINIVORT PP
Q.E. ADRM10/75	230 1F	0,75	1	4	6,3	
Q.E. ADRM10/110	230 1F	1,1	1,5	6,3	10	
Q.E. ADRM10/150	230 1F	1,5	2	10	16	
Q.E. ADRM20/55	230 1F	2x0,55	2x0,75	2,5	4	
Q.E. ADRM20/75	230 1F	2x0,75	2x1	4	6,3	
Q.E. ADRM20/110	230 1F	2x1,1	2x1,5	6,3	10	
Q.E. ADRM20/150	230 1F	2x1,5	2x2	10	16	



# NOCCHI ADRD

## THREE PHASE STARTERS FOR THE CONTROL OF ONE OR TWO DRAINING AND SEWAGE ELECTRIC PUMPS

### MAIN COMPONENTS

- IP 54 metallic case
- General switch
- Fuse block with fuses for the electric pump
- Contactor with thermal relay
- Transformer for auxiliary circuit
- Fuse block with fuses on the auxiliary circuit
- Terminal board with level control devices
- Cable gland
- Function light
- Power led
- Thermal block light
- Level alarm

### TYPE OF FUNCTIONING

- Manual through general switch
- Automatic through float switch

### OPTIONAL ACCESSORIES

- CE040030 - Wall mount fixing fins
- UZA00200 - Optical, acoustic alarm
- Float switches (see accessories table)

### LIMITS IN USE

- Environmental Temperature : -5 / +40 °C
- Relative humidity : 50% at 40°C (without forming of condense)
- Standards: EN 60730 - EN 60439

### ADRD 10

- Electronic signalling, control and command card
- For the control of one electric pump

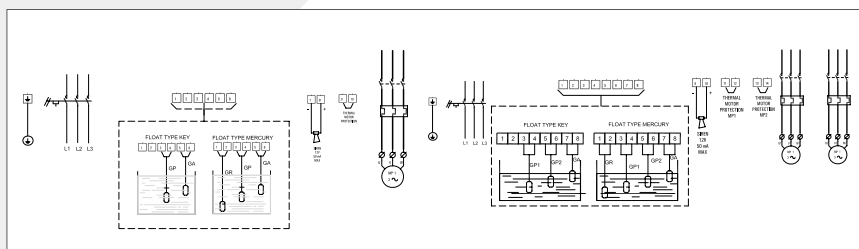
### ADRD 20

- Electronic signalling, control and command card equipped with cyclic startings converter
- For the control of two electric pumps

### TECHNICAL FEATURES

- Protection level : IP54
- Power supply voltage : 400V 3F 50 Hz
- External dimensions : 220 x 270 x 185 mm
- Weight : Kg 5,5

MODEL	Volt	Power		Field A		Suitable Pumps
		kW	Hp	min	max	
Q.E. ADRD10/55	400 3F	0,55	0,75	1	1,6	DRENOX PRIOX MINIVORT P MINIVORT PP
Q.E. ADRD10/110	400 3F	1,1	1,5	1,6	2,5	
Q.E. ADRD10/150	400 3F	1,5	2	2,5	4	
Q.E. ADRD10/300	400 3F	3	4	4	6,3	
Q.E. ADRD10/500	400 3F	5	6,7	6,3	10	
Q.E. ADRD10/750	400 3F	7,5	10	10	16	
Q.E. ADRD10/900	400 3F	9	12	13	19	
Q.E. ADRD20/55	400 3F	2x0,55	2x0,75	1	1,6	
Q.E. ADRD20/110	400 3F	2x1,1	2x1,5	1,6	2,5	
Q.E. ADRD20/150	400 3F	2x1,5	2x2	2,5	4	
Q.E. ADRD20/300	400 3F	2x3	2x4	4	6,3	
Q.E. ADRD20/500	400 3F	2x5	2x6,7	6,3	10	
Q.E. ADRD20/750	400 3F	2x7,5	2x10	10	16	



## NOCCHI ADRY

### THREE PHASE STARTERS FOR THE CONTROL OF ONE OR TWO DRAINING AND SEWAGE ELECTRIC PUMPS, STAR-TRIANGLE START

#### MAIN COMPONENTS

- IP 54 metallic case
- General switch
- Fuse block with fuses for the electric pump
- Contactor with thermal relay
- Transformer for auxiliary circuit
- Fuse block with fuses on the auxiliary circuit
- Electronic signalling, control and command card equipped with:
- Function light
- Power led
- Thermal block light
- Electronic keyboard with leds VOLT/ AMPERE
- Terminal board with level control devices
- Cable gland

#### TECHNICAL FEATURES

- Protection level : IP54
- Power supply voltage : 400V 3F 50 Hz
- External dimensions : 500 x 750 x 250 mm

#### TYPE OF FUNCTIONING

- Manual through general switch.
- Automatic through float switch.

#### LIMITS IN USE

- Environmental temperature: -5 / +40 °C
- Relative humidity : 50% at 40°C (without forming of condense)
- Standards : EN 60730 - EN 60439

#### ADRY 20

- Electronic signalling, control and command card equipped with cyclic startings converter
- For the control of two electric pumps
- Weight : Kg 15-85

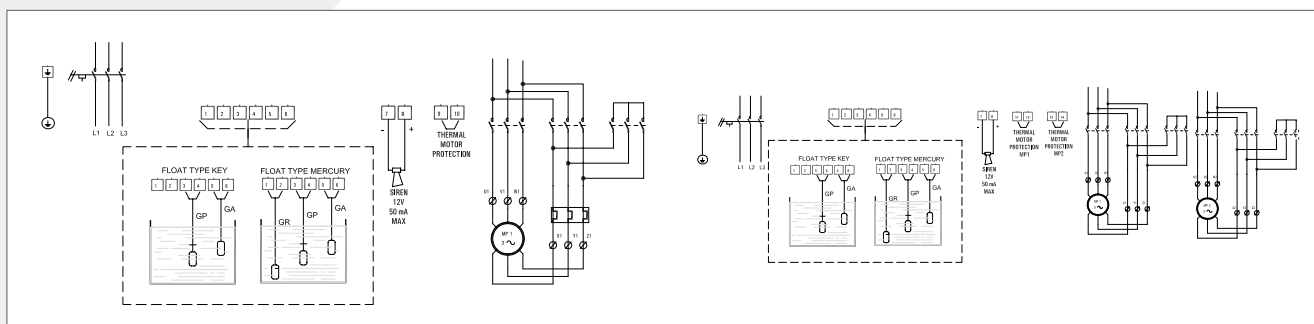
#### ADRY 10

- Electronic signalling, control and command card
- For the control of one electric pump
- Weight : Kg 12-60

#### OPTIONAL ACCESSORIES

- CE040020 - Wall mount fixing fins
- UZA00200 - Optical, acoustic alarm
- Float switches (see accessories table)


MODEL	Volt	Power		Field A		Suitable Pumps
		kW	Hp	min	max	
Q.E. ADRY10/900	400 3F	9	12	12,9	19	Sewage pumps
Q.E. ADRY10/1100	400 3F	11	15	17,2	24,1	
Q.E. ADRY10/1500	400 3F	15	20	22,4	32,8	
Q.E. ADRY10/2200	400 3F	22	30	29,3	44,8	
Q.E. ADRY10/2500	400 3F	25	33,5	37,9	55,2	
Q.E. ADRY20/900	400 3F	2x9	2x12	12,9	19	
Q.E. ADRY20/1100	400 3F	2x11	2x15	17,2	24,1	
Q.E. ADRY20/1500	400 3F	2x15	2x20	22,4	32,8	
Q.E. ADRY20/2200	400 3F	2x22	2x30	29,3	44,8	
Q.E. ADRY20/2500	400 3F	2x25	2x33,5	37,9	55,2	



# NOCCHI ACCESSORIES

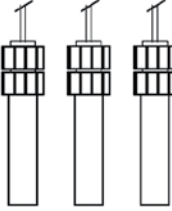
## COUNTERWEIGHT LEVEL ADJUSTMENT DEVICES

Water level adjustment devices of the Key type, for emptying and filling equipment, fitted with a 3m or 10m cable suitable for use in clean water, or water with a low quantity of suspended materials.

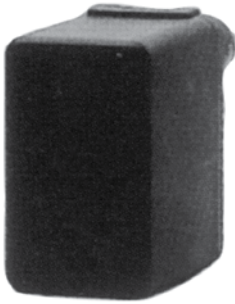
		MODEL	ELECTRIC CONTROL PANEL
		MICROSTART 3-3 Emptying/Filling	QES PLUS - AT
		MICROSTART 10-2 Filling	All remote-controlled control panels
		MICROSTART 5-2 Filling	All remote-controlled control panels
		MICROSTART 10-2 (PVC) Filling	All remote-controlled control panels
		MICROSTART 10-3 Emptying/Filling	QES PLUS- AT

## LEVEL ELECTRODES

Level electrodes, particularly suitable for conductive liquids with a max. temperature of 40°C. To connect the electrode to the control panel, an isolated cable with a max. diameter of 4mm<sup>2</sup> may be used. Max. length 100 m.

		MODEL	ELECTRIC CONTROL PANEL
		ECL electrodes for liquid level control	AT

## PRESSURE SWITCHES

		MODEL	ELECTRIC CONTROL PANEL
		PN 5 ITL (6 Atm. Max)	QES PLUS -AT
		PN 12 ITL (12 Atm. Max)	QES PLUS -AT
		PN 6 TEL (6 Atm. Max)	QES PLUS -AT
		PN 12 TEL (12 Atm. Max)	QES PLUS -AT

# NOCCHI ACCESSORIES AND FILTERS


	MODEL	ELECTRIC CONTROL PANEL
	PM 5 ITAL PM 12 ITAL PTI LP3 ITAL PT 6 TEL PT 12 TEL	PRESSURE SWITCH - 6 ATM MAX - ITALTECNICA PRESSURE SWITCH - 12 ATM MAX - ITALTECNICA PRESSURE SWITCH - INVERSE LP3 - 1/4" F ITALTECNICA PRESSURE SWITCH - 6 ATM MAX - TELEMECANIQUE PRESSURE SWITCH - 12 ATM MAX - TELEMECANIQUE
	MAR 6 MAP 6 MAR 10 MAP 10	PRESSURE GAUGE, RADIAL CONNECTION 6 ATM PRESSURE GAUGE, REAR CONNECTION 6 ATM PRESSURE GAUGE, RADIAL CONNECTION 10 ATM PRESSURE GAUGE, REAR CONNECTION 10 ATM
	TF 500 TF 600 TF 700 TF 800 GA 12 1/4	FLEXIBLE PIPE MEASURING 1" x mm 500 M-F FLEXIBLE PIPE MEASURING 1" x mm 600 M-F FLEXIBLE PIPE MEASURING 1" x mm 700 M-F FLEXIBLE PIPE MEASURING 1" x mm 800 M-F FLEXIBLE PIPE MEASURING 1" 1/4 x mm 400 M-F
	R 3 V	THREE-WAY BRASS CONNECTOR 1"
	MBB MG S 2 MGS 24 MB 60 MB 100 MB 200 MB 300 MB 500	BROMOBUTYL DIAPHRAGM FOR STAINLESS STEEL TANKS FOOD QUALITY RUBBER DIAPHRAGM FOR 2-LITER TANK FOOD QUALITY RUBBER DIAPHRAGM FOR 24-LITER TANK BUTYL DIAPHRAGM FOR 60-LITER TANK BUTYL DIAPHRAGM FOR 100-LITER TANK BUTYL DIAPHRAGM FOR 200-LITER TANK BUTYL DIAPHRAGM FOR 300-LITER TANK BUTYL DIAPHRAGM FOR 500-LITER TANK
	KA4 KA7 NIPPLEX 1" M-M	SUCTION KIT, 4 m SUCTION KIT, 7 m MALE CONNECTOR 1" FOR SUCTION KIT
	B1	BASIC KIT IN EMBOSSED, STAINLESS STEEL WITH SCREWS FOR MCX 80-120 AND JETINOX 45-60-70 MAX 80-120

# NOCCHI ACCESSORIES

	MODEL	ELECTRIC CONTROL PANEL
	VF 1" VFF 1" VFF 1" 1/4 VF F1" 1/2 VF 2" VAR 1" VAR 1" 1/4 VAR 1" 1/2 VAR 2" RVFF 2	FOOT VALVE IN PLASTIC 1" FOOT VALVE 1" IN BRASS WITH STAINLESS STEEL FILTER FOOT VALVE 1" 1/4 IN BRASS WITH STAINLESS STEEL FILTER FOOT VALVE 1" 1/2 IN BRASS WITH STAINLESS STEEL FILTER FOOT VALVE 2" IN BRASS WITH STAINLESS STEEL FILTER NON-RETURN VALVE IN BRASS 1" NON-RETURN VALVE IN BRASS 1" 1/4 NON-RETURN VALVE IN BRASS 1" 1/2 NON-RETURN VALVE IN BRASS 2" BALL BEARING WITH FULL BORE 2" F
	VRP 1" 1/4 VRP 1" 1/2 VRP 2"	BALL CHECK VALVE STAINLESS STEEL 1" 1/4 F BALL CHECK VALVE STAINLESS STEEL 1" 1/2 F BALL CHECK VALVE STAINLESS STEEL 2" F
	MICROSTART 3-3 MICROSTART 10-3 MICROSTART 5-2 MICROSTART 10-2 MICROSTART S10-2 MERCURY 15 M CP	FLOAT 3 M. 3 WIRE, FOR EMPTYING/FILLING FLOAT 10 M. 3WIRE, FOR EMPTYING/FILLING FLOAT 5 M. 2 WIRE, FOR EMPTYING H05 - RNF FLOAT PVC 10 M. 2 WIRE, FOR EMPTYING FLOAT 10 M. 2 WIRE, WITH PLUG AND SOCKET PVC FLOAT 15 mt MERCURY MC COUNTERWEIGHT FOR FLOAT
	CABLE 4X1 CABLE 4X1,5 CABLE 4X2,5 CABLE 4X4 CABLE 4X6 CABLE 4X10	NEOPRENE CABLE H07 RNF 4 WIRE, 1 MMQ. NEOPRENE CABLE H07 RNF 4 WIRE, 1.5 MMQ. NEOPRENE CABLE H07 RNF 4 WIRE, 2.5 MMQ. NEOPRENE CABLE H07 RNF 4 WIRE, 4 MMQ. NEOPRENE CABLE H07 RNF 4 WIRE, 6 MMQ. NEOPRENE CABLE H07 RNF 4 WIRE, 10 MMQ.
	JOINER KIT 2,5 JOINER KIT 6 JOINER KIT 10 JOINT 2,5 JOINT 6 JOINT 10	JOINER KIT, HEAT-SHRINK, FOR CABLES OF UP TO 4 X 2,5 JOINER KIT, HEAT-SHRINK, FOR CABLES OF UP TO 4 X 6 RESIN FILLED JOINER KIT FOR CABLES OF UP TO 4X10 HEAT-SHRINK JOINT 1 - 2,5 mmq HEAT-SHRINK JOINT 4 - 6 mmq RESIN FILLED JOINT UP TO 4 X 10 mmq
	RCF 30 RCF 40 CRF 50	HOSE CONNECTION, CURVED 1" 1/4 FEMALE ø 30 mm HOSE CONNECTION, CURVED 1" 1/2 FEMALE ø 40 mm HOSE CONNECTION, CURVED 2" FEMALE ø 50 mm
	-	FLANGE KIT GH FOR DHR 9

# NOCCHI ACCESSORIES AND FILTERS

## CARTRIDGE CONTAINER

	DESCRIPTION	Quantity min.
	CF 5" 1" CONNECTION	1
	CF 10" 1" CONNECTION	1
	CF 10" 1" 1/4 CONNECTION	1

## FILTER CARTRIDGES

	DESCRIPTION	Filtration. nom. um	Quantity min.
	CARTRIDGE 5" FA (WOUND WIRE)	20	20
	CARTRIDGE 7" FA (WOUND WIRE) FOR FILTER CONNECTION 1"	20	20
	CARTRIDGE 7" NY (NYLON MESH) FOR FILTER CONNECTION 1"	60	20
	CARTRIDGE 10" FA (WOUND WIRE) FOR FILTER CONNECTION 1"	20	20
	CARTRIDGE 10" FA (WOUND WIRE) FOR FILTER CONNECTION 1" 1/4	20	20
	CARTRIDGE 10" NY (NYLON MESH) FOR FILTER CONNECTION 1"	60	20
	CARTRIDGE 10" NY (NYLON MESH) FOR FILTER CONNECTION 1" 1/4	60	20
	CARTRIDGE 10" CA (NYLON MESH) + ACTIVE CARBON DIAM. 1	60	20
	CARTRIDGE 10" PL (POLYPHOSPHATE CRYSTALS) DIAM. 1	-	1



# NOCCHI PRESSURE BOOSTER UNITS

## GUIDE FOR THE SELECTION OF PRESSURE BOOSTER UNITS

There are two essential elements for selecting a pressure booster unit:  
 the maximum water flow rate required during operation  
 the total delivery head

The required flow rate can be seen from the diagram containing the average statistic values below (Fig. n. 1).  
 The calculation of the total delivery head (which corresponds to the minimum unit working pressure) provides for three different cases:  
 supply from deposit at the same level as the unit (A)  
 supply from a mains water supply or deposit higher than the unit (B)

supply from a well or deposit situated lower than the unit (C)

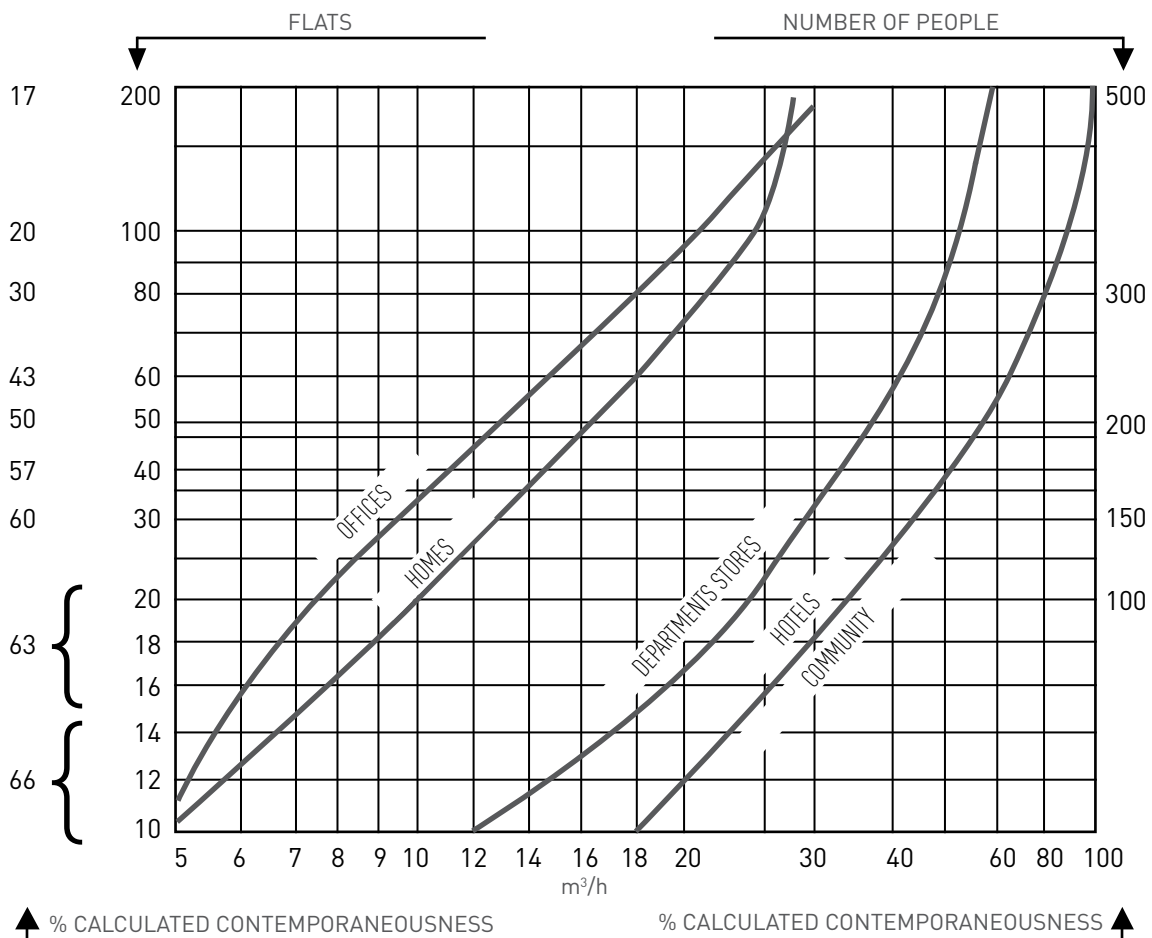
Case (A) The height of the highest sampling point is added to the pressure value required at that point plus any flow resistance. (Fig. n. 2)

Case (B) Proceed as for case A, then deduct from the figure obtained the actual pressure value of the water supply system or the pressure value developed as a result of the drop from the deposit. (Fig. n. 3)

Case (C) Proceed as for case A, then add to the figure obtained the value in metres between the water level and the unit. (Fig. n. 4)

The figures obtained compared with the tables specifying the features of the different autoclave units shown in the catalogue will allow the most suitable unit to be selected. It should be borne in mind that in these tables the highest minimum tap pressure provided for is 1.5 ATM.

The information outlined is of a general nature as the different specific conditions of use cannot be taken into consideration.



CURVES FOR WC WITH FLUSH CISTERNS  
 (FOR WC WITH FAST RATE FLUSHINGS + 30%)

# NOCCHI PRESSURE BOOSTER UNITS

## GUIDE TO PRESSURE BOOSTER UNITS

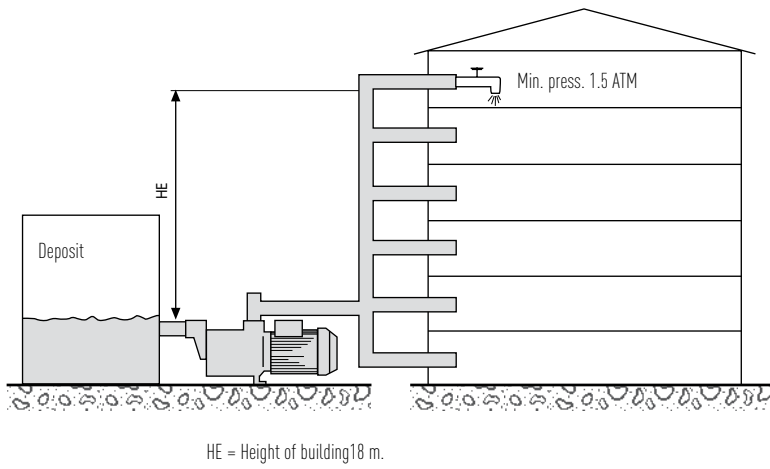


Fig. 2

CASE A

H building	18 +
Minimum pressure	15 +
Flow resistance	2 =
	Metres
	35

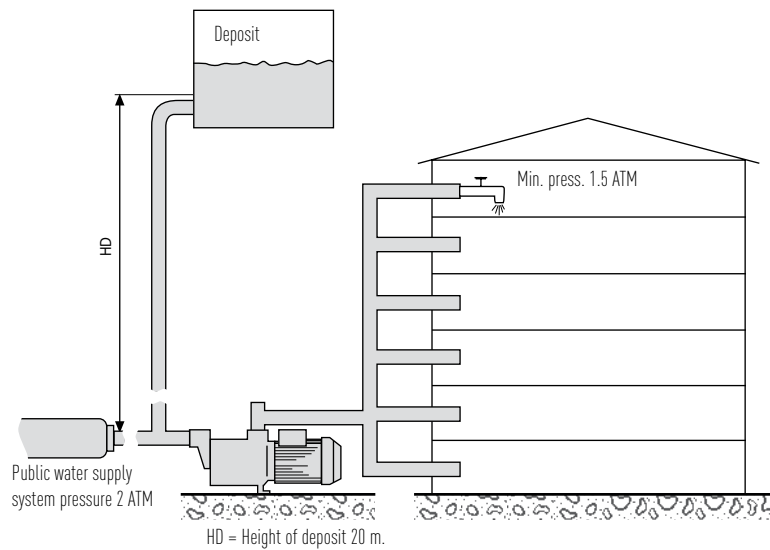


Fig. 3

CASE B

Head necessary	35 -
Mains water supply pressure	20 =
	Metres
	15
Metres	35 -
The tank	20 =
	Metres
	15

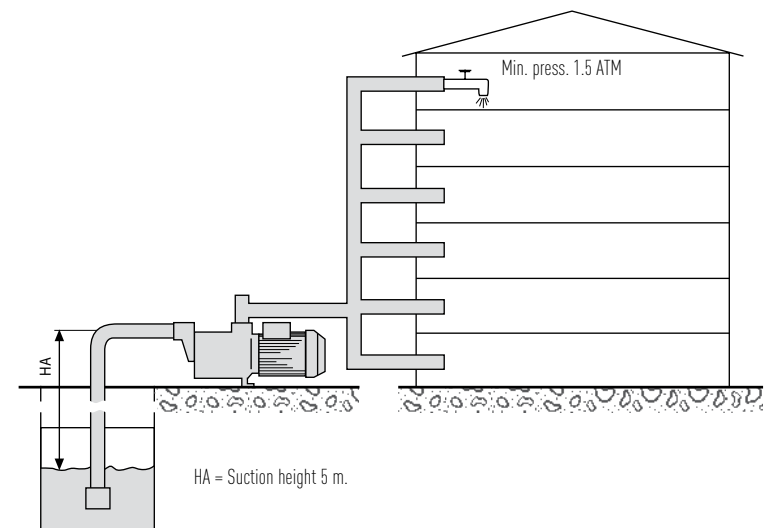


Fig. 4

CASE C

Head necessary	35 +
Ventilation hood	5 =
	Metres
	40

# NOCCHI PRESSURE BOOSTER UNITS

## GUIDE TO PRESSURE BOOSTER UNITS

FLOW RATE			GALVANISED PIPES - NEW											
			NOMINAL DIAMETERS IN INCHES AND IN MILLIMETRES											
m <sup>3</sup> /h	lt./min.	lt./sec.	1/2" 15,75	3/4" 21,25	1" 27,00	1 1/4" 35,75	1 1/2" 41,25	2" 52,50	2 1/2" 68,00	3" 80,25	3 1/2" 92,50	4" 105,00	5" 130,00	6" 155,50
0,6	10	0,16	0,855 9,910	0,470 2,407	0,292 0,784									
0,9	15	0,25	1,282 20,11	0,705 4,862	0,438 1,570	0,249 0,416								
1,2	20	0,33	1,710 33,53	0,940 8,035	0,584 2,588	0,331 0,677	0,249 0,346							
1,5	25	0,42	2,138 49,93	1,174 11,91	0,730 3,834	0,415 1,004	0,312 0,510							
1,8	30	0,50	2,565 69,34	1,409 16,50	0,876 5,277	0,498 1,379	0,374 0,700	0,231 0,223						
2,1	35	0,58	2,993 91,54	1,644 21,75	1,022 6,949	0,581 1,811	0,436 0,914	0,269 0,291						
2,4	40	0,67		1,879 27,66	1,168 8,820	0,664 2,290	0,499 1,1160	0,308 0,368						
3,0	50	0,83		2,349 41,40	1,460 13,14	0,830 3,403	0,623 1,719	0,385 0,544	0,229 0,159					
3,6	60	1,00		2,819 57,74	1,751 18,28	0,996 4,718	0,748 2,375	0,462 0,751	0,275 0,218					
4,2	70	1,12		3,288 76,49	2,043 24,18	1,162 6,231	0,873 3,132	0,539 0,988	0,321 0,287	0,231 0,131				
4,8	80	1,33			2,335 30,87	1,328 7,940	0,997 3,988	0,616 1,254	0,376 0,363	0,263 0,164				
5,4	90	1,50			2,627 38,30	1,494 9,828	1,122 4,927	0,693 1,551	0,413 0,449	0,296 0,203				
6,0	100	1,67			2,919 46,49	1,660 11,90	1,247 5,972	0,770 1,875	0,459 0,542	0,329 0,244	0,248 0,124			
7,5	125	2,08			3,649 70,41	2,075 17,93	1,558 8,967	0,962 2,802	0,574 0,809	0,412 0,365	0,310 0,185	0,241 0,101		
9,0	150	2,50				2,490 25,11	1,870 12,53	1,154 3,903	0,688 1,124	0,494 0,506	0,372 0,256	0,289 0,140		
10,5	175	2,92				2,904 33,32	2,182 16,66	1,347 5,179	0,803 1,488	0,576 0,670	0,434 0,338	0,337 0,184		
12	200	3,33				3,319 42,75	2,493 21,36	1,539 6,624	0,918 1,901	0,659 0,855	0,496 0,431	0,385 0,234	0,251 0,084	
15	250	4,17				4,149 64,86	3,117 32,32	1,924 10,03	1,147 2,860	0,823 1,282	0,620 0,646	0,481 0,350	0,314 0,126	
18	300	5,00					3,740 45,52	2,309 14,04	1,377 4,009	0,988 1,792	0,744 0,903	0,577 0,488	0,377 0,175	0,263 0,074
24	400	6,67					4,987 78,17	3,078 24,04	1,836 6,828	1,317 3,053	0,992 1,530	0,770 0,829	0,502 0,294	0,351 0,124
30	500	8,33						3,848 36,71	2,295 10,40	1,647 4,622	1,240 2,315	0,962 1,254	0,628 0,445	0,439 0,187
36	600	10,0						4,618 51,84	2,753 14,62	1,976 6,505	1,488 3,261	1,155 1,757	0,753 0,623	0,526 0,260
42	700	11,7							3,212 19,52	2,306 8,693	1,736 4,356	1,347 2,345	0,879 0,831	0,614 0,347
48	800	13,3							3,671 25,20	2,635 11,18	1,984 5,582	1,540 3,009	1,005 1,066	0,702 0,445
54	900	15,0							4,130 31,51	2,964 13,97	2,232 6,983	1,732 3,762	1,130 1,328	0,790 0,555
60	1000	16,7							4,589 38,43	3,294 17,06	2,480 8,521	1,925 4,595	1,256 1,616	0,877 0,674
75	1250	20,8								4,117 26,10	3,100 13,00	2,406 7,010	1,570 2,458	1,097 1,027

# NOCCHI PRESSURE BOOSTER UNITS

## GUIDE TO PRESSURE BOOSTER UNITS

FLOW RATE			GALVANISED PIPES - NEW												
			NOMINAL DIAMETERS IN INCHES AND IN MILLIMETRES												
90	1500	25.0									4,941 36,97	3,720 18,42	2,887 9,892	2,197 3,458	1,316 1,444
105	1750	29.2										4,340 24,76	3,368 13,30	2,511 4,665	1,535 1,934
120	2000	33.3										4,960 31,94	3,850 17,16	3,139 5,995	1,754 2,496
150	2500	41.7											4,812 26,26	3,767 9,216	2,193 3,807
180	3000	50.0												5,023 13,05	2,632 5,417
240	4000	66.7												22,72	3,509 8,926
300	5000	83.3													4,386 14,42

N.B. - N.B. - To evaluate the flow resistance in pipes made of different materials, the value found for the galvanised pipe must be multiplied by the following set coefficients:

0.6 for tubes in PVC

0.7 for tubes in aluminium

0.8 for tubes in rolled steel

1.3 for tubes in cement fibre

# NOCCHI AUTOJET

## BOOSTER SET WITH ELECTRONIC CONTROL AND PROTECTION DEVICE

Automatic booster set designed to increase home water pressure. Made up of a single phase JETINOX pump and of a FLUSSCONTROL BASIC electronic control and dry running protection device. It is supplied wired, assembled, ready to use.

### APPLICATIONS

- Pumping and distribution of water in domestic systems
- Booster systems
- Washing systems, irrigation

### ADVANTAGES

- Attenuates the effects of water hammering
- Replaces the traditional expansion tank system
- Maintenance-free
- Protection from dry running
- Easy to install
- Maintains constant pressure during delivery

### MOTOR

- Enclosed, externally ventilated
- Level of protection: IP44
- Class F insulation
- Single phase power supply with capacitor permanently activated
- Thermal protection built into the motor winding
- Speed of rotation 2850 rpm
- Suitable for continuous use

### DESIGN FEATURES

- Flusscontrol Basic:
- Max. pressure 8 bar
- Max. operating temperature 40° C
- Power supply cable: 1,5 m
- H07 RN-F with plug

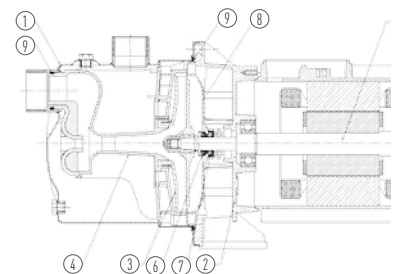
### USAGE LIMITATION

- Type of liquid: clean water with no suspended solids or abrasive material
- Maximum liquid temperature 40° C
- Maximum recommended suction height: 8m with foot valve
- Maximum operating pressure: 8 bar



### APPLICATIONS

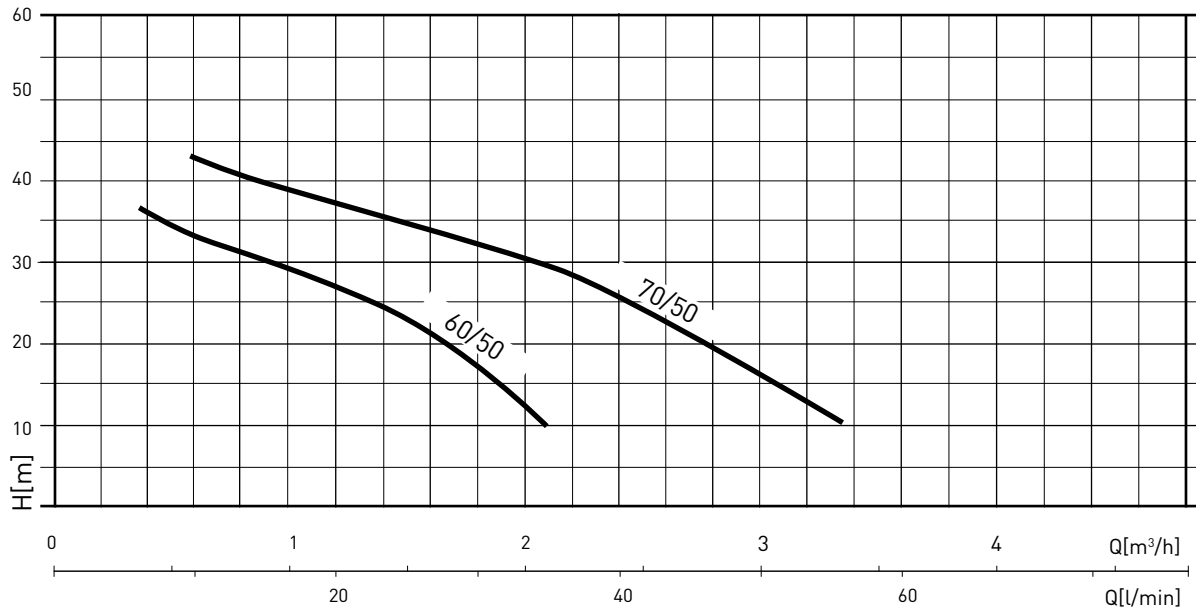
	Component	Material
1	Pump body	X5 CrNi 1810 (AISI 304) Stainless steel
2	Motor bracket	Die cast aluminium
3	Impeller	Technopolymer with stainless steel shim ring
4	Diffuser - venturi tube and nozzle	Technopolymer
5	Shaft	X 12 CrNiS 1809 (AISI 416) Stainless steel
6	Mechanical seal	Graphite
7	Counterface	Ceramic
8	Seal holder plate	Technopolymer (series 45-60-70) X5 CrNi 1810 (AISI 304) stainless steel serie 90
9	O-rings	NBR 70 Shore



# NOCCHI AUTOJET

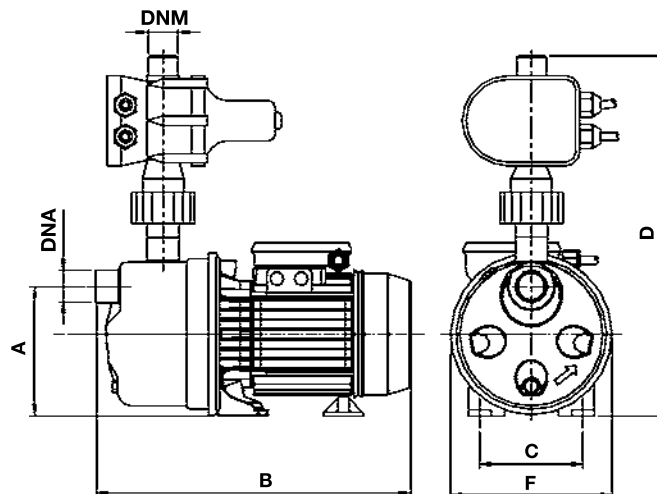
## BOOSTER SET WITH ELECTRONIC CONTROL AND PROTECTION DEVICE

### HYDRAULIC PERFORMANCE



### TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	I <sub>n</sub> (A)	μF	Q	L/1'						
	HP	kW	HP	kW					0	10	20	30	40	50	60
AUTOJET 60/50	0,75	0,55	1,10	0,8	1 ~ 230 V	4	12,5	m.c.a./m.c.w.	46	36	31	26	18	6	
AUTOJET 70/50	0,95	0,7	1,36	1,0	1 ~ 230 V	4,5	16		48	42,5	37,5	32	25	16,5	7



### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.							Weight (Kg)
	A	B	C	D	E	DNA	DNM	
AUTOJET 60/50	140	374	99	391	194	1" F	1" M	9,4
AUTOJET 70/50	144	351	99	397	195	1" F	1" M	10,7

# NOCCHI AUTOMAX

## BOOSTER SET WITH ELECTRONIC CONTROL AND PROTECTION DEVICE

Automatic booster set designed to increase home water pressure. Made up of a single phase MAX pump and of a FLUSSCONTROL BASIC electronic control and dry running protection device. It is supplied wired, assembled, ready to use.

### APPLICATIONS

- Pumping and distribution of water in domestic systems
- Booster systems
- Washing systems, irrigation

### DESIGN FEATURES

- Flusscontrol Basic:
- Max. pressure 8 bar
- Max. operating temperature 40° C
- Power supply cable: 1,5 m
- H07 RN-F with plug

### ADVANTAGES

- Attenuates the effects of water hammering
- Replaces the traditional expansion tank system
- Maintenance-free
- Protection from dry running
- Easy to install
- Maintains constant pressure during delivery

### MOTOR

- Enclosed, externally ventilated
- Level of protection: IP44
- Class F insulation
- Single phase power supply with capacitor permanently activated
- Thermal protection built into the motor winding
- Speed of rotation 2850 rpm
- Suitable for continuous use

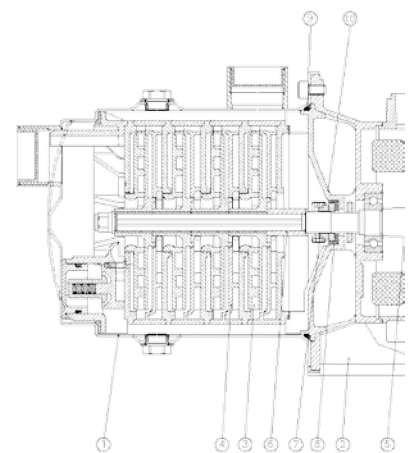
### USAGE LIMITATION

- Type of liquid: clean water with no suspended solids or abrasive material
- Maximum liquid temperature 40° C
- Maximum recommended suction height: 7m with foot valve
- Maximum operating pressure: 8 bar



### DESIGN FEATURES

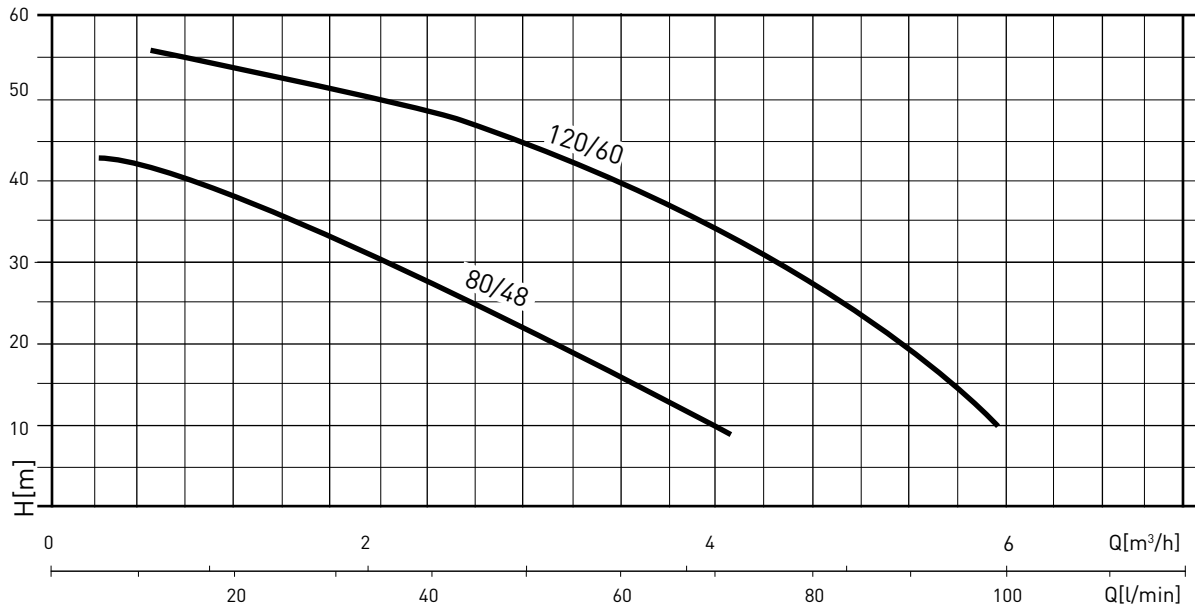
	Component	Material
1	Pump body	X5 CrNi 1810 (AISI 304) Stainless steel
2	Motor bracket	Die cast aluminium
3	Impeller	Technopolymer with X5 CrNi 1810 (AISI 304) stainless steel shim ring
4	Diffuser Venturi tube and Nozzle	Technopolymer
5	Motor shaft (hydraulic end)	X5 CrNi 1810 (AISI 304) Stainless steel
6	Spacer	Nickel plated brass OT 58
7	Mechanical seal	Graphite
8	Counterface	Ceramic
9	O-rings	NBR 70 Shore
10	Seal housing	Noryl GFN2V



# NOCCHI AUTOMAX

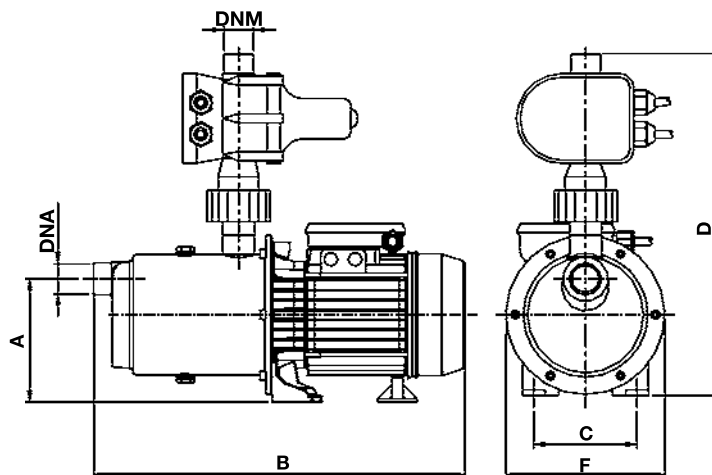
## BOOSTER SET WITH ELECTRONIC CONTROL AND PROTECTION DEVICE

### HYDRAULIC PERFORMANCE



### TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	In (A)	μF	Q	L/1'	0	20	40	60	80
	HP	kW	HP	kW						0	1,2	2,4	3,6	4,8
AUTOMAX 80/48	0,75	0,55	1,10	0,8	1 ~ 230 V	4	12,5	m.c.a./ m.c.w.	45	36	28	17	1	
AUTOMAX 120/60	1,2	0,9	1,7	1,25	1 ~ 230 V	5,8	20		60	55	48	36	26	



### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.							Weight (Kg)
	A	B	C	D	E	DNA	DNM	
AUTOMAX 80/48	129	370	99	380	205	1" F	1" M	9,2
AUTOMAX 120/60	129	415	99	390	205	1" F	1" M	12,2



## NOCCHI A-DHR

### BOOSTER SET IN AISI 304 STAINLESS STEEL WITH ELECTRONIC CONTROL AND PROTECTION DEVICE

Automatic booster set designed to increase home water pressure. Made up of a single phase DHR pump and of a FLUSSCONTROL electronic control and dry running protection device.

#### APPLICATIONS

- Pumping and distribution of water in domestic systems
- Booster systems
- Washing systems, gardens, irrigation

#### FLUSSCONTROL DESIGN FEATURES

- Starting pressure (not adjustable): 1,5 bar
- - Liquid temperature: from 4°C to 65°C
- - Power supply cable: 1,5 m
- H05 RN-F with schuko plug

#### USAGE LIMITATION

- Type of liquid: clean water with no suspended solids or abrasive material
- Maximum operating pressure: 10 bar
- Maximum recommended suction height:
  - 6 m with foot valve

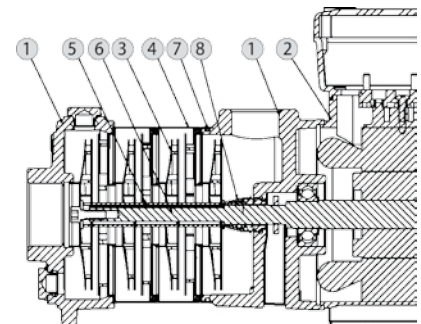
#### MOTOR

- Enclosed, externally ventilated
- Level of protection: IP54
- Class F insulation
- Single phase power supply with capacitor permanently activated
- Thermal protection built into the motor winding
- Speed of rotation 2850 rpm
- Suitable for continuous use



#### DESIGN FEATURES

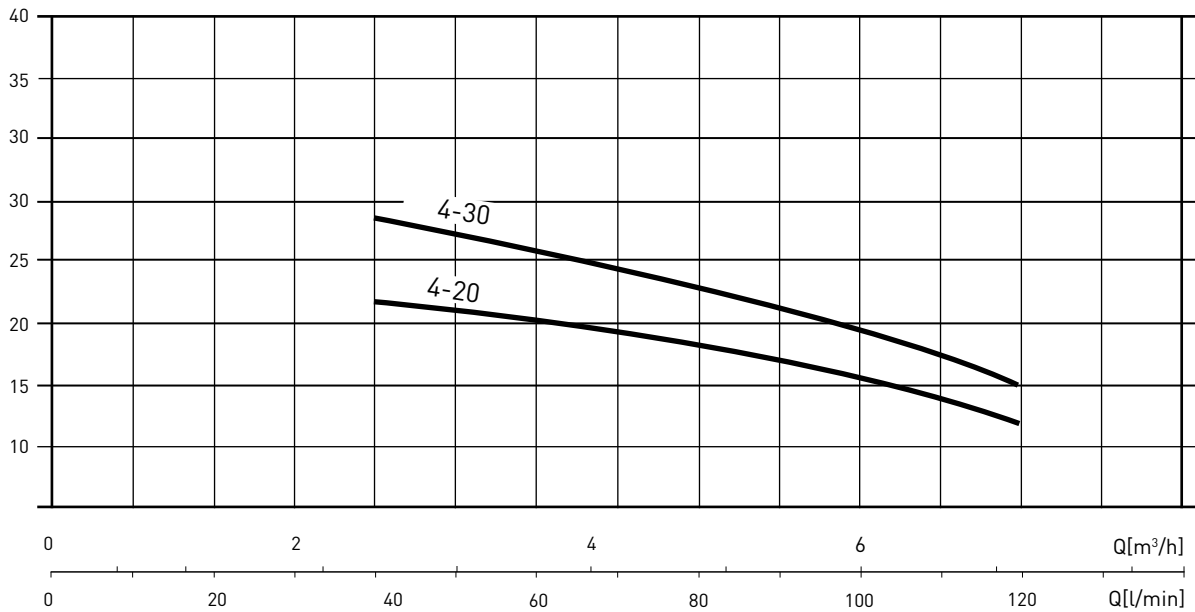
	Component	Material
1	Pump body	GJL-200 (ASTM class 35)
2	Motor bracket	Die cast aluminium
3	Impeller	X5 CrNi 18-10 (AISI 304) stainless steel
4	Diffusers	X5 CrNi 18-10 (AISI 304) stainless steel
5	Sleeve	X5 CrNi 18-10 (AISI 304) stainless steel
6	Shaft	X5 CrNi 18-10 (AISI 304) stainless steel
7	Seal holder plate - O'ring	NBR
8	Mechanical seal	Graphite/Ceramic



# NOCCHI A-DHR

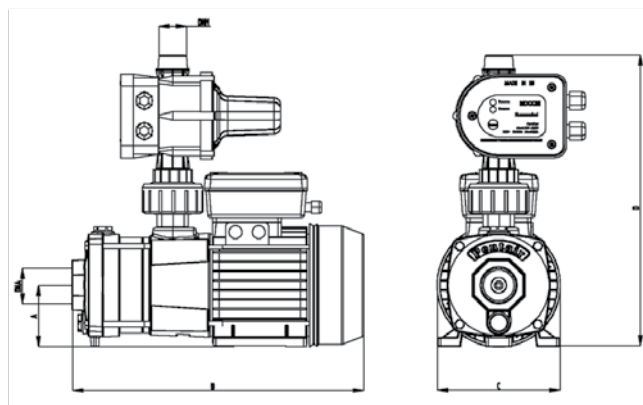
BOOSTER SET IN AISI 304 STAINLESS STEEL WITH ELECTRONIC CONTROL AND PROTECTION DEVICE

## HYDRAULIC PERFORMANCE



## TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	In (A)	μF	Q	L/1'	40	50	60	80	100	120
	HP	kW	HP	kW					m³/h	2,4	3	3,6	4,8	6	7,2
A-DHR 4-20 FB	0,50	0,37	0,80	0,60	1 - 230 V	2,9	12,5	m.c.a. / m.l.c.w.	17	16	15,5	13,5	11	7,5	
A-DHR 4-30 FB	0,70	0,50	1,10	0,80	1 - 230 V	3,7	12,5		23,5	22,5	21	18	14	10	



## TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.						Weight (Kg)
	A	B	C	D	DNA	DNM	
A-DHR 4-20 FB	71	339	143	338	1" 1/4	1" M	11,5
A-DHR 4-30 FB	71	339	143	338	1" 1/4	1" M	11,7

# NOCCHI WATERPRESS

## BOOSTER SETS WITH 24L HORIZONTAL EXPANSION TANK

The WATERPRESS booster sets are made up of JET self-priming centrifugal pumps. They are supplied wired, tested and complete with 24l expansion tank. Ready to use.

### APPLICATIONS

- Rainwater collection
- Booster systems
- Washing systems and irrigation

### DESIGN FEATURES

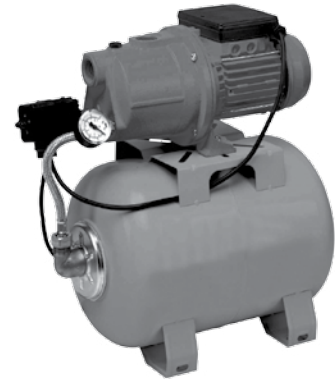
- Pressure switch (max 6 bar) calibrated at: min 2 - max 3 bar
- Pressure gauge (6 bar)
- Chromium plated pressed brass 3 way fitting (model Waterpress 70/50)
- 24Lt painted steel expansion tank with interchangeable food quality rubber diaphragm.
- Flexible pipe for water connection
- 1,5 m H05 RN-F power supply cable with plug

### USAGE LIMITATION

- Type of liquid: clean water with no suspended solids or abrasive material
- Maximum liquid temperature 50° C
- Maximum suction height 8m with foot valve
- Maximum operating pressure 6 bar

### MOTOR

- Enclosed, externally ventilated
- Level of protection IP44
- Class F insulation
- Single phase power supply with capacitor permanently activated
- Thermal protection built into the motor winding
- Speed of rotation 2850 rpm
- Suitable for continuous use



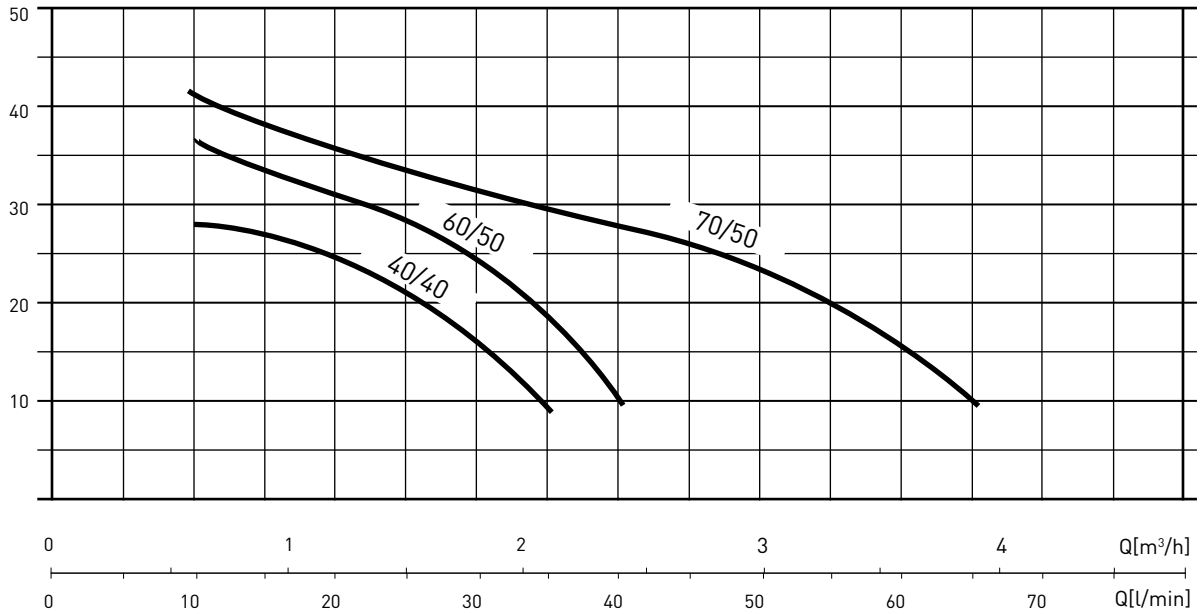
### DESIGN FEATURES

Component	Material	
	WATERPRESS 40/40 - 60/50	WATERPRESS 70/50
Pump body	EN GJL 200 ( ex G20 ) Cast iron	EN GJL 200 ( ex G20 ) Cast iron
Motor bracket	Aluminium	EN GJL 200 ( ex G20 ) Cast iron
Impeller	Technopolymer with X5 CrNi 1810 ( Aisi 304 ) stainless steel shim ring	Technopolymer
Diffuser Venturi tube - nozzle	Monobloc technopolymer assembly	Technopolymer
Motor shaft	X5 CrNi 1810 (AISI 304) Stainless steel	X 12 CrNiS 1809 (AISI 416) Stainless steel
Mechanical seal	Graphite	Graphite
Counterface	Ceramic	Ceramic
O-rings	NBR 70 shore	NBR 70 shore

# NOCCHI WATERPRESS

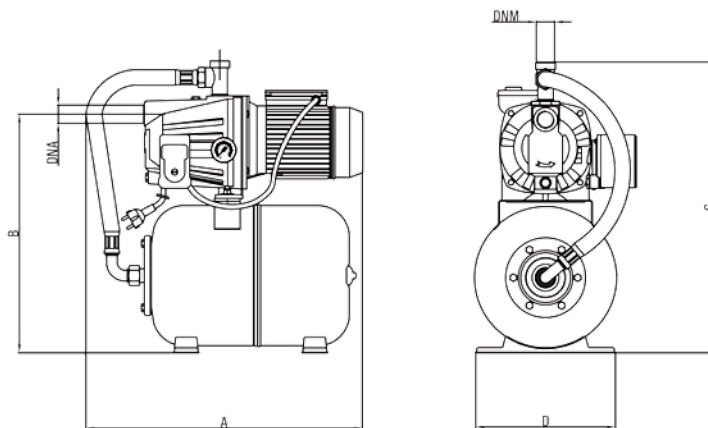
## BOOSTER SETS WITH 24L HORIZONTAL EXPANSION TANK

### HYDRAULIC PERFORMANCE



### TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	In (A)	μF	Q	L/1'	0	10	20	30	40	50	60	70
	HP	kW	HP	kW					m³/h	0	0,3	1,2	1,8	2,4	3	3,6	4,2
WATERPRESS 40/40M	0,50	0,37	0,80	0,60	1 ~ 220 ÷ 240 V	3	6	m.c.a. / m.c.w.	41	28	21						
WATERPRESS 60/50	0,75	0,55	1,1	0,80	1 ~ 220 ÷ 240 V	4	10		46	36	31	24	9	4			
WATERPRESS 70/50	1,36	1	1,5	1,1	1 ~ 220 ÷ 240 V	5	16		49	41	36	32	28	25	15	3	



### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.						Weight (Kg)
	A	B	C	D	DNA	DNM	
WATERPRESS 40/40	510	430	470	260	1" F	1" F	13,7
WATERPRESS 60/50	510	430	470	260	1" F	1" F	14,5
WATERPRESS 70/50	520	460	550	315	1" F	1" F	22,3

## NOCCHI WATERPRESS INOX BOOSTER SET WITH 24 LT HORIZONTAL EXPANSION TANK

The WATERPRESS INOX booster sets are produced with JETINOX or MAX pumps. They are supplied wired, complete with 24 Lt expansion tank, ready to use.

### APPLICATIONS

- Rainwater collection
- Booster systems
- Washing systems and irrigation

### DESIGN FEATURES

- Pressure switch (max 6 bar) calibrated at: min 2 ÷ max 3 bar
- Pressure gauge (6 bar)
- Chromium plated pressed brass 5 way fitting
- 24Lt painted steel expansion tank with interchangeable food quality rubber diaphragm.
- Flexible pipe for water connection
- 1,5 m H05 RN-F power supply cable with plug

### DESIGN FEATURES

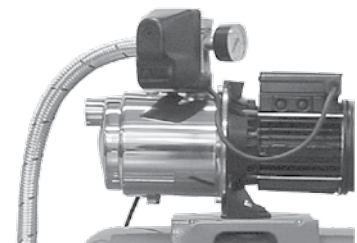
Component	Material	
	WP INOX 70/50	WP INOX 80/48
Pump body	X 5 CrNi 1810 (AISI 304) Stainless steel	X 5 CrNi 1810 (AISI 304) Stainless steel
Motor bracket	Die cast aluminium	Die cast aluminium
Impellers	Technopolymer with stainless steel shim ring	Technopolymer with stainless steel shim ring
Diffuser	Technopolymer	Technopolymer
Shaft	Acciaio Inox X 12 CrNiS 1809 (AISI 416)	(hydraulic end) X 5 CrNi 1810 (AISI 304) Stainless steel
Mechanical seal	Graphite	Graphite
Counterface	Ceramic	Ceramic
Seal plate	Technopolymer	Technopolymer
O-rings	NBR 70 shore	NBR 70 shore

### USAGE LIMITATION

- Type of liquid: clean water with no suspended solids or abrasive materials
- Maximum liquid temperature: 50°C
- Maximum suction height 8 m with foot valve (7m for WATERPRESS INOX 80/48)
- Maximum operating pressure: 6 bar

### MOTOR

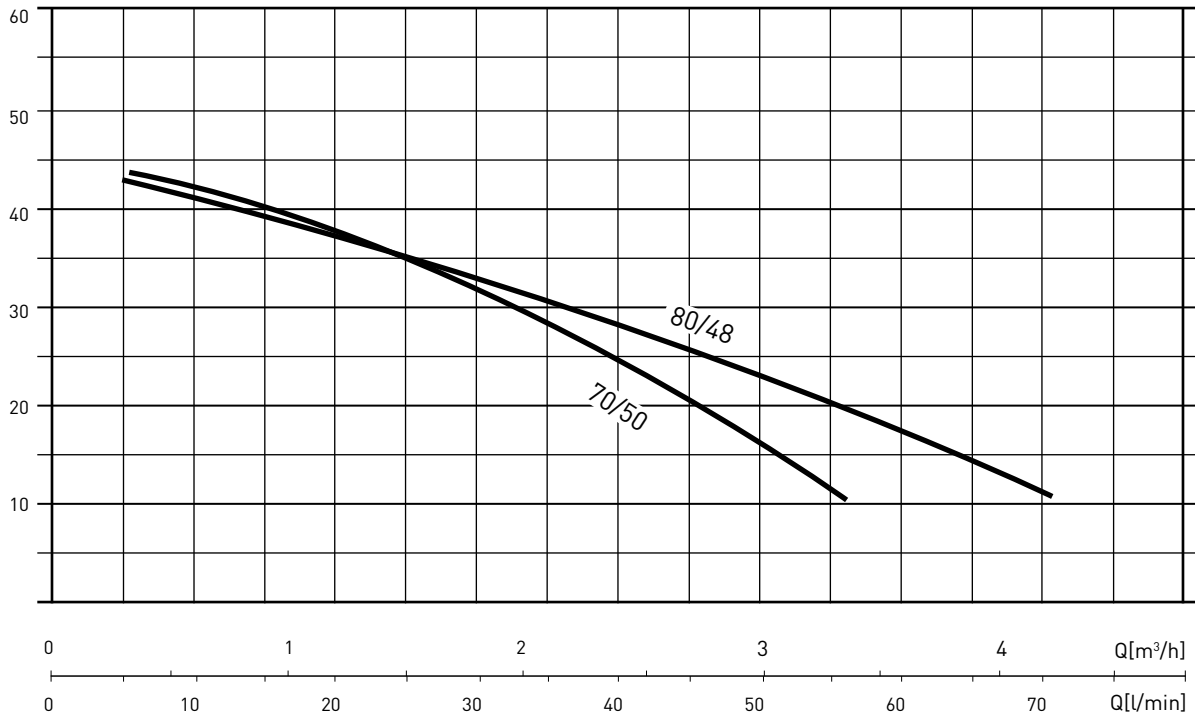
- Enclosed, externally ventilated
- Level of protection: IP44
- Class insulation: F
- Single phase power supply with capacitor permanently activated.
- Thermal protection built into the motor winding
- Speed of rotation: 2850 rpm.
- Suitable for continuous use.



# NOCCHI WATERPRESS INOX

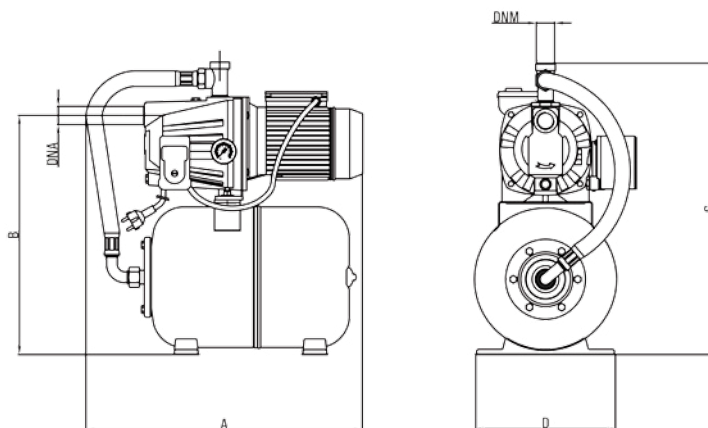
## BOOSTER SET WITH 24 LT HORIZONTAL EXPANSION TANK

### HYDRAULIC PERFORMANCE



### TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	In (A)	μF	Q	L/1'	0	20	40	60	80
	HP	kW	HP	kW					m³/h	0	1,2	2,4	3,6	4,8
WP INOX 70/50	0,95	0,7	1,36	1,0	1 ~ 230 V	4,5	16	m.c.a. / m.c.w.	48	37,5	25	7		
WP INOX 80/48	0,75	0,55	1,1	0,80	1 ~ 230 V	4	12,5		45	36	28	17	1	



### TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.						Weight (Kg)
	A	B	C	D	DNA	DNM	
WATERPRESS INOX 70/50	520	445	565	260	1" F	1" F	13,8
WATERPRESS INOX 80/48	520	430	550	260	1" F	1" F	12,3

## NOCCHI WATERPRESS INOX 50 L BOOSTER SET WITH 50 LT HORIZONTAL EXPANSION TANK

The WATERPRESS INOX 50 L is a booster set produced with MAX self-priming multistage centrifugal pump. It is supplied wired, complete with 50 Lt expansion tank, ready to use.

### APPLICATIONS

- Rainwater collection
- Booster systems
- Washing systems and irrigation

### DESIGN FEATURES

- Pressure switch (max 6 bar) calibrated at: min 2 ÷ max 3 bar
- Pressure gauge (6 bar)
- Chromium plated pressed brass 5 way fitting
- 24Lt painted steel expansion tank with interchangeable food quality rubber diaphragm.
- Flexible pipe for water connection
- 1,5 m H05 RN-F power supply cable with plug

### DESIGN FEATURES

Component	Material
Pump body	X 5 CrNi 1810 (AISI 304) Stainless steel
Motor bracket	Die cast aluminium
Impellers	Technopolymer with stainless steel shim ring
Diffuser	Technopolymer
Shaft (hydraulic end)	X 5 CrNi 1810 (AISI 304) Stainless steel
Mechanical seal	Graphite
Counterface	Ceramic
Seal plate	Technopolymer
O-rings	NBR 70 Shore

### USAGE LIMITATION

- Type of liquid: clean water with no suspended solids or abrasive material
- Maximum liquid temperature 50° C
- Maximum suction height recommended 7 m with foot valve
- Maximum operating pressure 7 bar

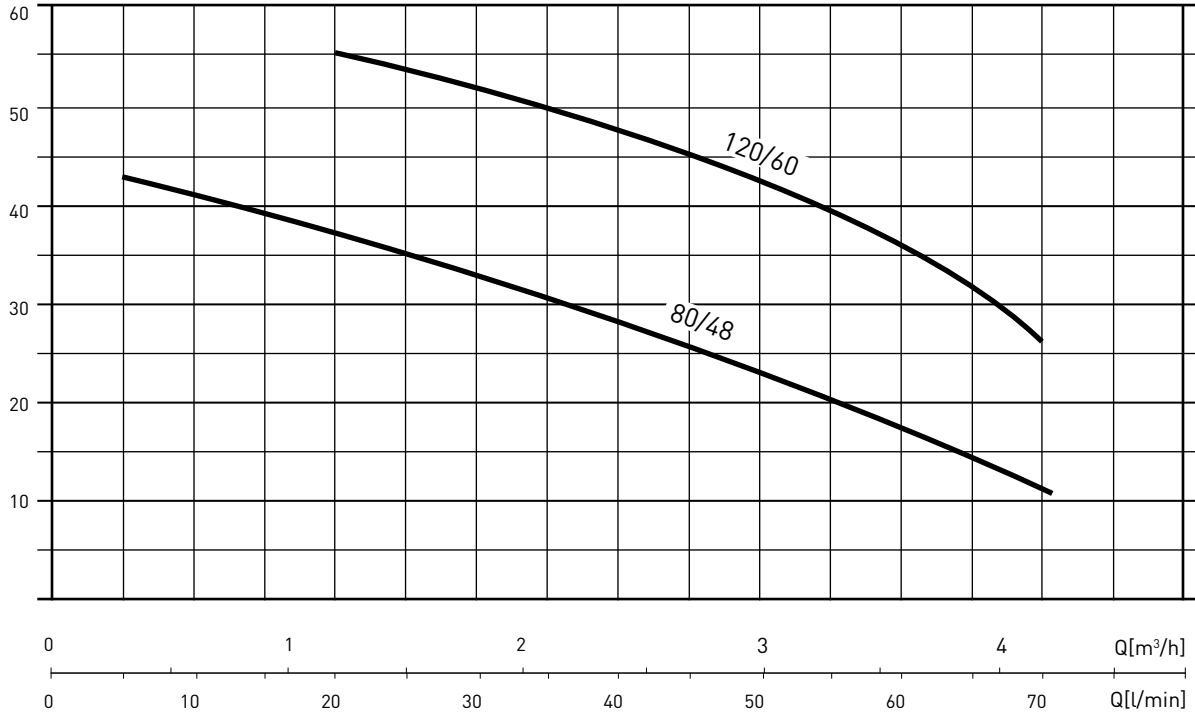
### MOTOR

- Enclosed, externally ventilated
- Level of protection IP44
- Class F insulation
- Single phase power supply with capacitor permanently activated
- Thermal protection built into the motor winding
- Speed of rotation 2850 rpm
- Suitable for continuous use



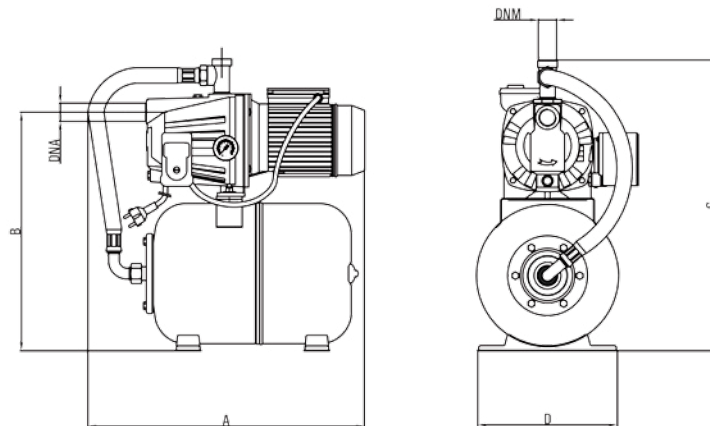
# NOCCHI WATERPRESS INOX 50 L BOOSTER SET WITH 50 LT HORIZONTAL EXPANSION TANK

## HYDRAULIC PERFORMANCE



## TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	In (A)	μF	Q	L/1'	0	20	40	60	80
	HP	kW	HP	kW					0	1,2	2,4	3,6	4,8	
WP INOX 80/48 - 50 L	0,75	0,55	1,1	0,80	1 ~ 230 V	4	12,5	m.c.a. / m.l.c.w.	45	36	28	17	1	
WP INOX 120/60 - 50 L	1,2	0,9	1,7	1,25	1 ~ 230 ÷ 240 V	5,8	20		60	55	48	36	26	



## TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.						Weight (Kg)
	A	B	C	D	DNA	DNM	
WATERPRESS 80/48	640	520	640	370	1" F	1" F	18
WATERPRESS 120/60	640	520	640	370	1" F	1" F	21



# NOCCHI WATERPRESS SUPERINOX BOOSTER SET WITH 24 LT HORIZONTAL EXPANSION TANK

The WATERPRESS SUPERINOX is a booster set produced with JETINOX or MAX self priming centrifugal pump. It is supplied wired and complete with stainless steel expansion tank.

## APPLICATIONS

- Rainwater collection
- Booster systems
- Washing systems and irrigation

## DESIGN FEATURES

- Pressure switch (max. 6 bar) set at: min 2 ÷ max 3 bar
- Pressure gauge (6 bar)
- Chromium plated pressed brass 5 way fitting
- 24 Lt stainless steel expansion tank with interchangeable food quality rub.
- Flexible pipe for water connection.
- 1,5 m H05 RN-F power supply cable with plug

## USAGE LIMITATION

- Type of liquid: clean water with no suspended solids or abrasive materials
- Maximum liquid temperature: 50°C
- Maximum suction height with foot valve:
  - 8 m WP Superinox 60/50
  - 7 m WP Superinox 120/60
- Maximum operating pressure:
  - 6 bar WP Superinox 60/50
  - 7 bar WP Superinox 120/60

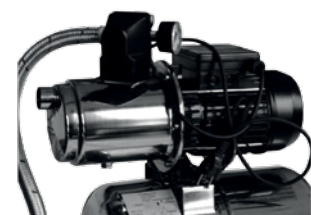
## MOTOR

- Enclosed, externally ventilated
- Level of protection IP44
- Class F insulation
- Single phase power supply with capacitor permanently activated
- Thermal protection built into the motor winding
- Speed of rotation 2850 rpm
- Suitable for continuous use



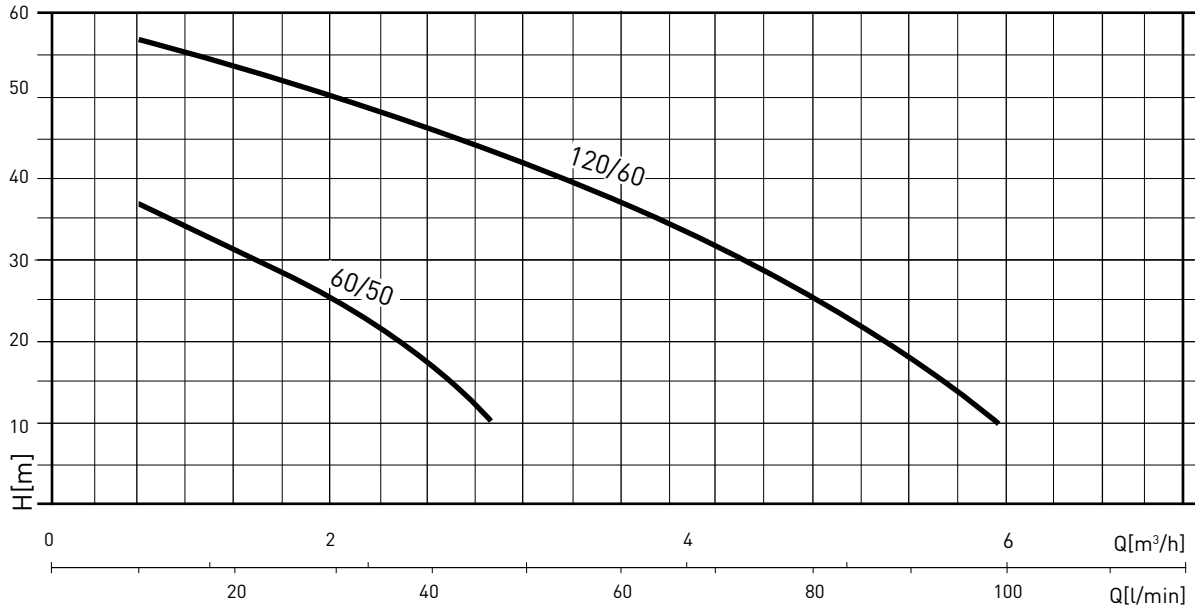
## DESIGN FEATURES

Component	Material	
	WP SUPERINOX 60/50	WP SUPERINOX 120/60
Pump casing	X 5 CrNi 1810 (AISI 304) Stainless steel	X 5 CrNi 1810 (AISI 304) Stainless steel
Motor bracket	Die cast aluminium	Die cast aluminium
Impellers	Technopolymer with stainless steel shim ring	Technopolymer with stainless steel shim ring
Monobloc diffuser Venturi tube - nozzle assembly	Technopolymer	-
Shaft (hydraulic end)	X 12 CrNiS 1809 (AISI 416) Stainless steel	X 5 CrNi 1810 (AISI 304) Stainless steel
Mechanical seal	Graphite	Graphite
Counterface	Ceramic	Ceramic
Seal plate	Technopolymer	Technopolymer
O-rings	NBR 70 shore	NBR 70 shore



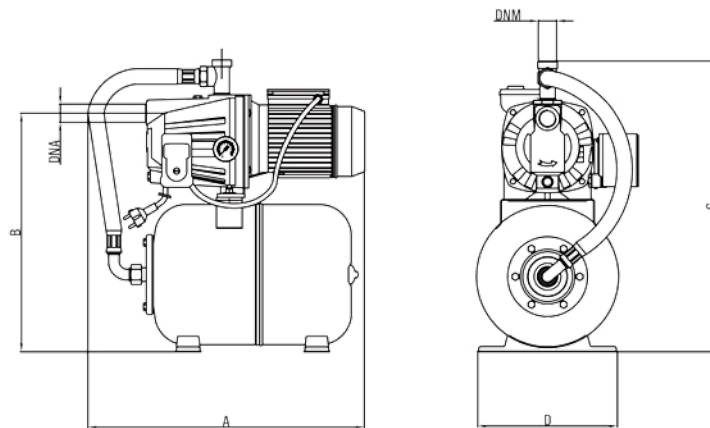
# NOCCHI WATERPRESS SUPERINOX BOOSTER SET WITH 24 LT HORIZONTAL EXPANSION TANK

## HYDRAULIC PERFORMANCE



## TABLE OF PERFORMANCE

MODEL	Power (P2)		Power (P1)		VOLT	In (A)	μF	Q	L/1'	0	20	40	60	80
	HP	kW	HP	kW					m³/h	0	1,2	2,4	3,6	4,8
WP SUPERINOX 60/50 C	0,75	0,55	1,1	0,80	1 ~ 220 ÷ 240 V	4	12,5	m.c.a./ m.c.w.	46	31	28	6	1	
WP SUPERINOX 120/60 C	1,2	0,9	1,7	1,25	1 ~ 220 ÷ 240 V	5,8	20		60	55	48	36	26	



## TABLE OF SIZES AND WEIGHTS

MODEL	Dimensions mm.						Weight (Kg)
	A	B	C	D	DNA	DNM	
WP SUPERINOX 60/50 C	530	425	550	280	1" F	1" F	11,2
WP SUPERINOX 120/60 C	530	425	550	280	1" F	1" F	14,2



Via Masaccio, 13 56010 LUGNANO (PI) - ITALY [WWW.NOCCHI.IT](http://WWW.NOCCHI.IT)

All Pentair trademarks and logos are owned by Pentair, inc. All other brand or product names are trademarks or registered marks of their respective owners. Because we are continuously improving our products and services, Pentair reserves the right to change specifications without prior notice. Pentair is an equal opportunity employer.  
Nocchi NV260PS70 - 10/2013 © 2013 Pentair, Inc. All Rights Reserved.