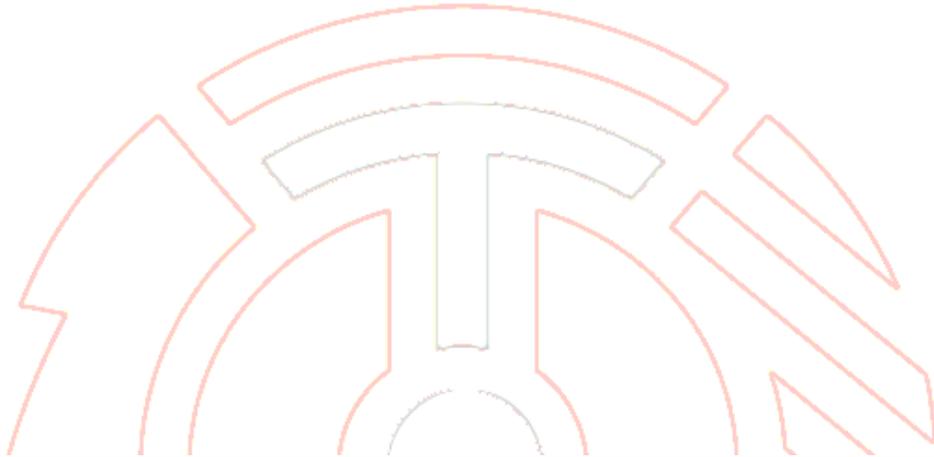
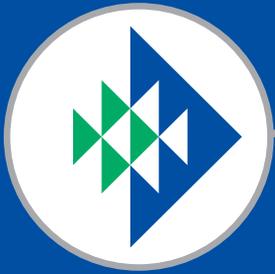




NOCCHI®

Pentair Water





Pentair™ Water

▶ Premier supplier of water equipment

Pentair is a diversified operating company headquartered in Minnesota. Its Water Group is a global leader in providing innovative products and systems used worldwide in the movement, treatment, storage and enjoyment of water.

Pentair's Enclosure group is leader in the global market of enclosures for sensitive electronics and electrical components.

Pentair is a values-driven company that brings superior products to customers through some of the world's leading brands. Efforts in continuous improvement, strong new product development, high performance, competence, business ethics and market leadership have contributed greatly to our success. Pentair's employees share many personal values such as accountability, deep respect for people and the environment, and a candid and practical work style.

Strong customer relationships and quality products allow Pentair Water to attain the vision of being the leading provider of water equipment.

▶ Safe, clean water for people to drink and enjoy, and for industries to use

Pentair Water is playing a key role in making safe, clean water available to an ever-growing portion of the world's population: a valuable organization is engaged to successfully serve our customers through superior, decentralized and accountable operations and dedicated sales and marketing networks.

Pentair Water operates through an organization that includes 4 Business Units:



▶ Pump Systems

Products range from single and multistage centrifugals to shallow and deep well submersibles for residential, commercial and agriculture applications; sump, effluent and sewage pumps designed for water and wastewater applications; pressure boosting and fire fighting systems as well as circulating pumps for heating, ventilation and air conditioning.



▶ Water Treatment

Residential, commercial, industrial, water conditioning control valves, fiberglass wound pressure tanks and vessels, brine cabinets and storage tanks.



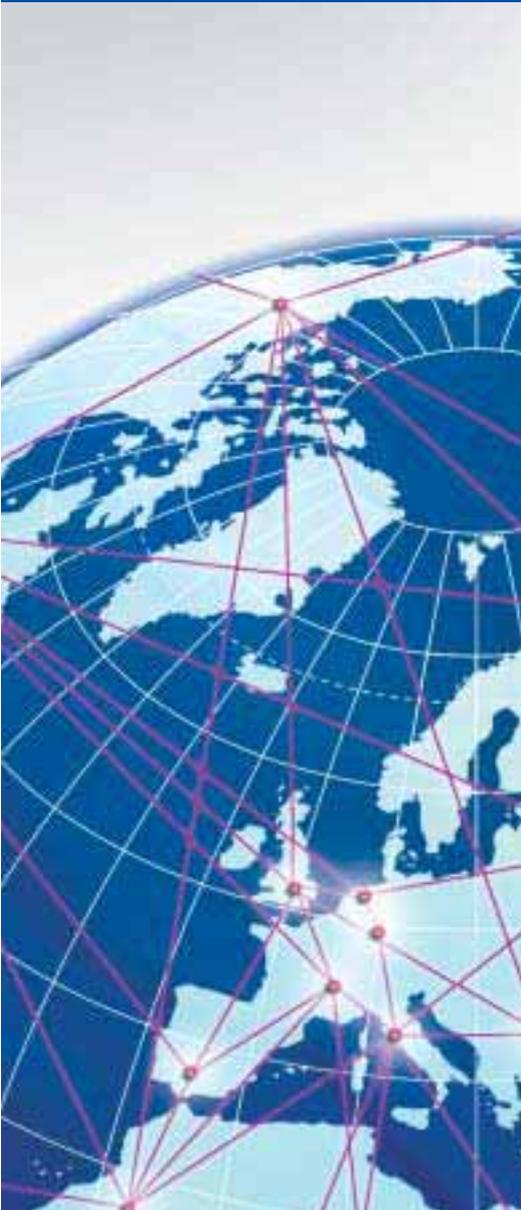
▶ Filtration & purification Technologies

Residential, commercial, and industrial filtration housings; replaceable cartridge elements; carbon block filtration; drinking water filtration system components; pumps for recreational vehicles, marine, industrial applications and food service.



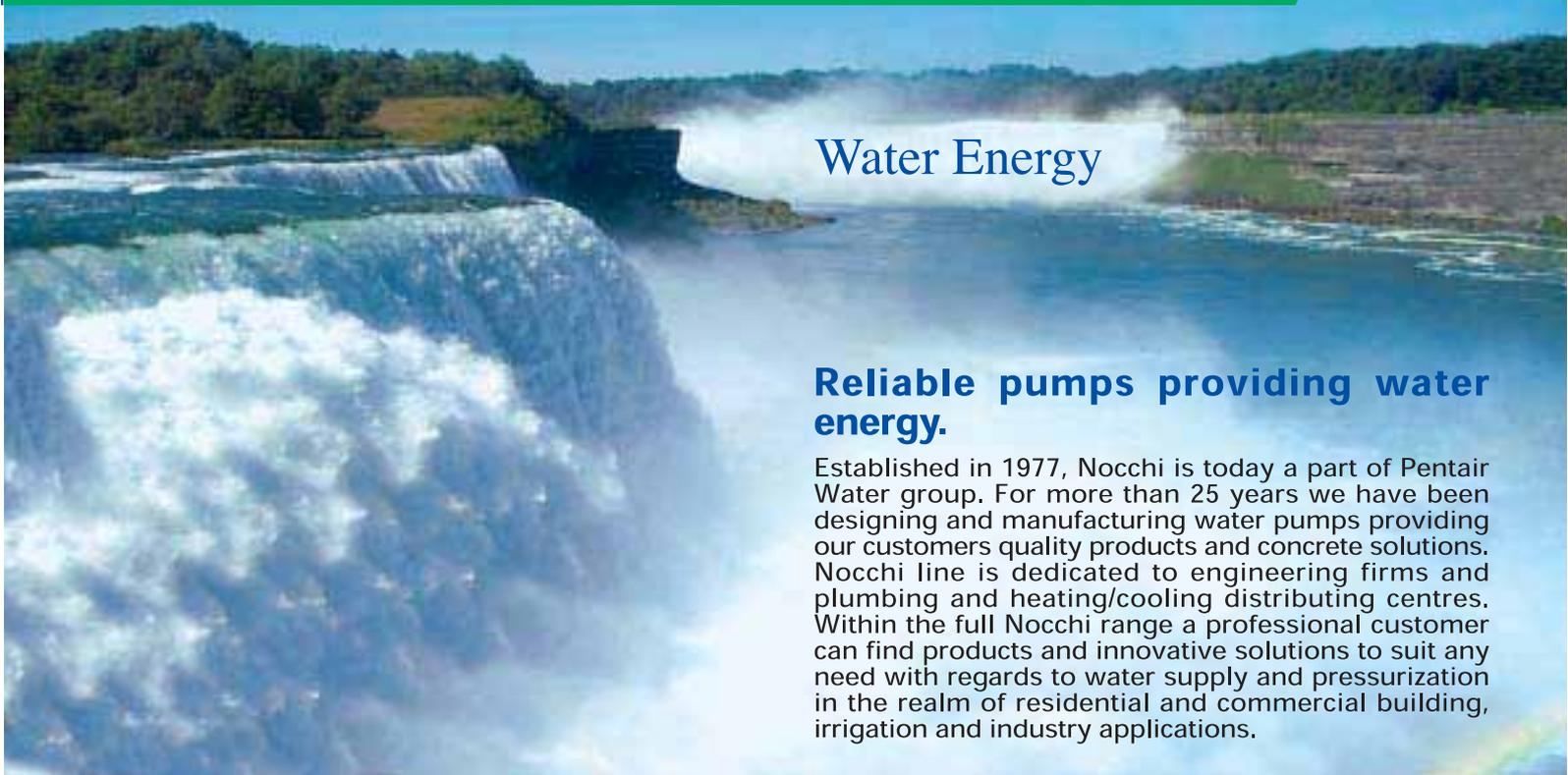
▶ Pool and spa

A complete line of commercial and residential pool/spa equipment and accessories including pumps, filters, heaters, lights, automation, automatic pool cleaners, commercial deck equipment, barbecue deck equipment, aquatic pond products and accessories, pool tile and interior finishing surfaces, maintenance equipment, spa/jetted tub hydrotherapy fittings and pool/spa accessories.





NOCCHI[®]
Pentair Water



Water Energy

Reliable pumps providing water energy.

Established in 1977, Nocchi is today a part of Pentair Water group. For more than 25 years we have been designing and manufacturing water pumps providing our customers quality products and concrete solutions. Nocchi line is dedicated to engineering firms and plumbing and heating/cooling distributing centres. Within the full Nocchi range a professional customer can find products and innovative solutions to suit any need with regards to water supply and pressurization in the realm of residential and commercial building, irrigation and industry applications.

► Heating, ventilation and air-conditioning

Circulator pumps for circulation of hot water in central heating systems and circulation in domestic hot water service systems. Pumps for circulation of cold water and other liquids in cooling and air-conditioning systems.



► Pressure boosting and fire fighting

Vertical and horizontal centrifugal pumps. Multiple pump units for transfer and boosting of water. Fire-fighting systems.



► Sewage and wastewater

Drainage, effluent and sewage pumps, for a wide range of applications in building services.



► Domestic water supply

Submersible pumps, jet pumps, multistage centrifugal pumps and compact systems for water and rain water supply in home and garden applications.



► Groundwater supply

Submersible pumps for groundwater supply, irrigation and groundwater lowering.



CPS

FREQUENCY CHANGER

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.

- **EASY INSTALLATION**
- **ENERGY SAVING**
- **SILENT RUNNING**
- **RELIABILITY**



Operation

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

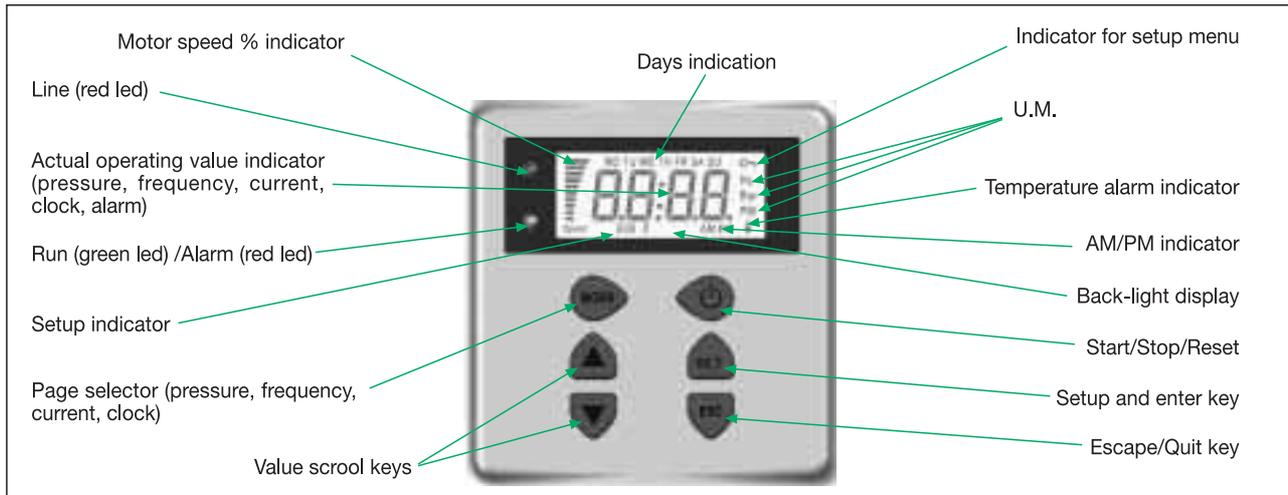
Technical features

- | | |
|------------------------|--|
| - Power input | 1x230 Vac ± 10 % |
| - Output voltage | 3x230 Vac ± 10 % |
| - Max nominal power | 1,5 Kw |
| - Input frequency | 50/60 Hz + 3% |
| - Max output current | 6.5 Amp |
| - Protection | IP55 (in case of installation on motors with a protection ≥ 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) |

Versions

VERTICAL	HORIZONTAL	SELF PRIMING
VLRE 2B-60 A	DHIE 45	MAXE 120/60
VLRE 2B-110 A	DHIE 27	MAXE 80/60
VLRE 4-80 A	DHRE 9-40	MULTINOXE-A 200/40
VLRE 8-40 A	DHRE 45	MULTINOXE-A 200/65
MULTINOXE-VE 200/65	MULTINOXE 80/48	
MULTINOXE-VE 200/40	MULTINOXE 120/60	

Control Panel



Performance range

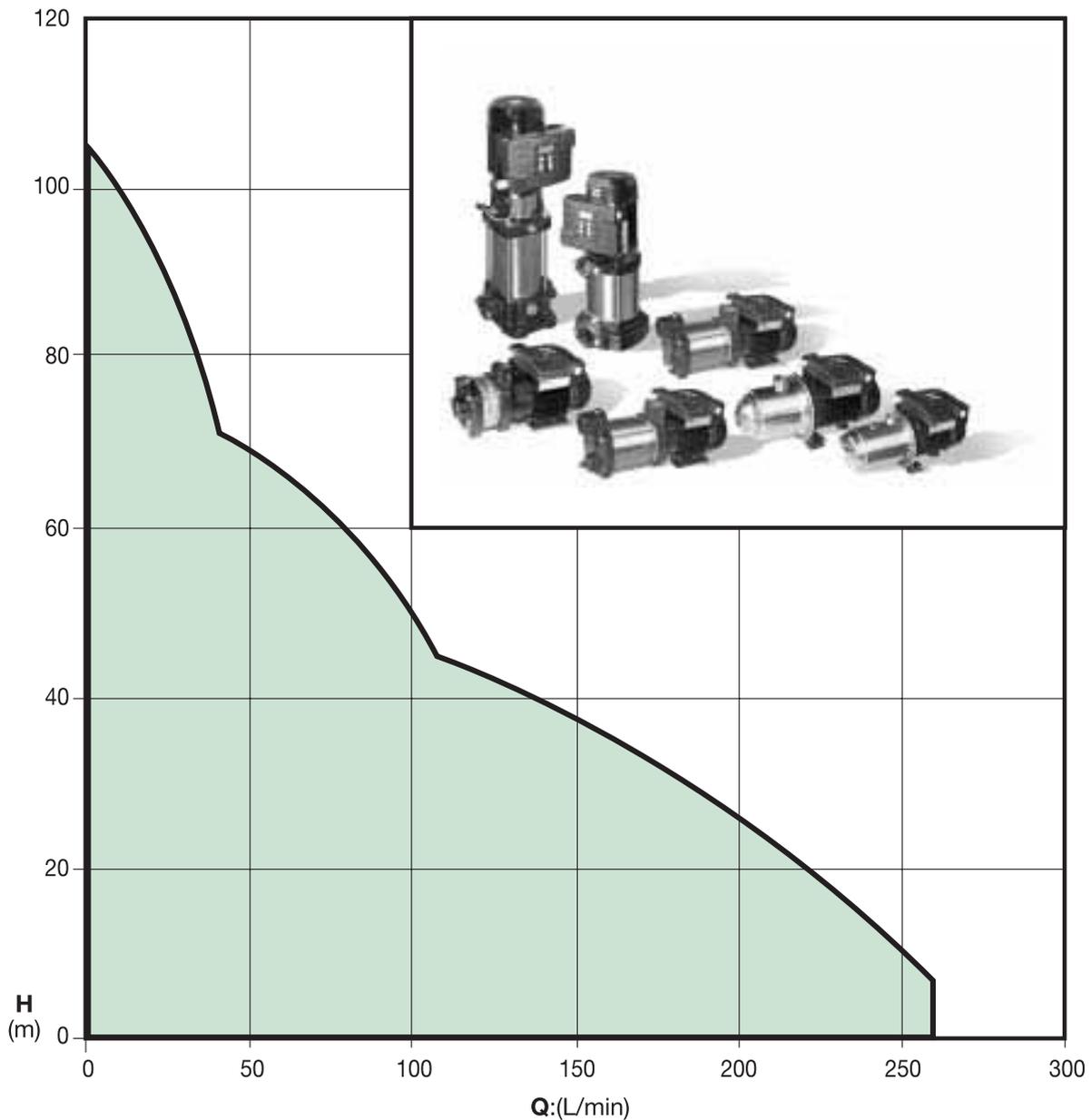
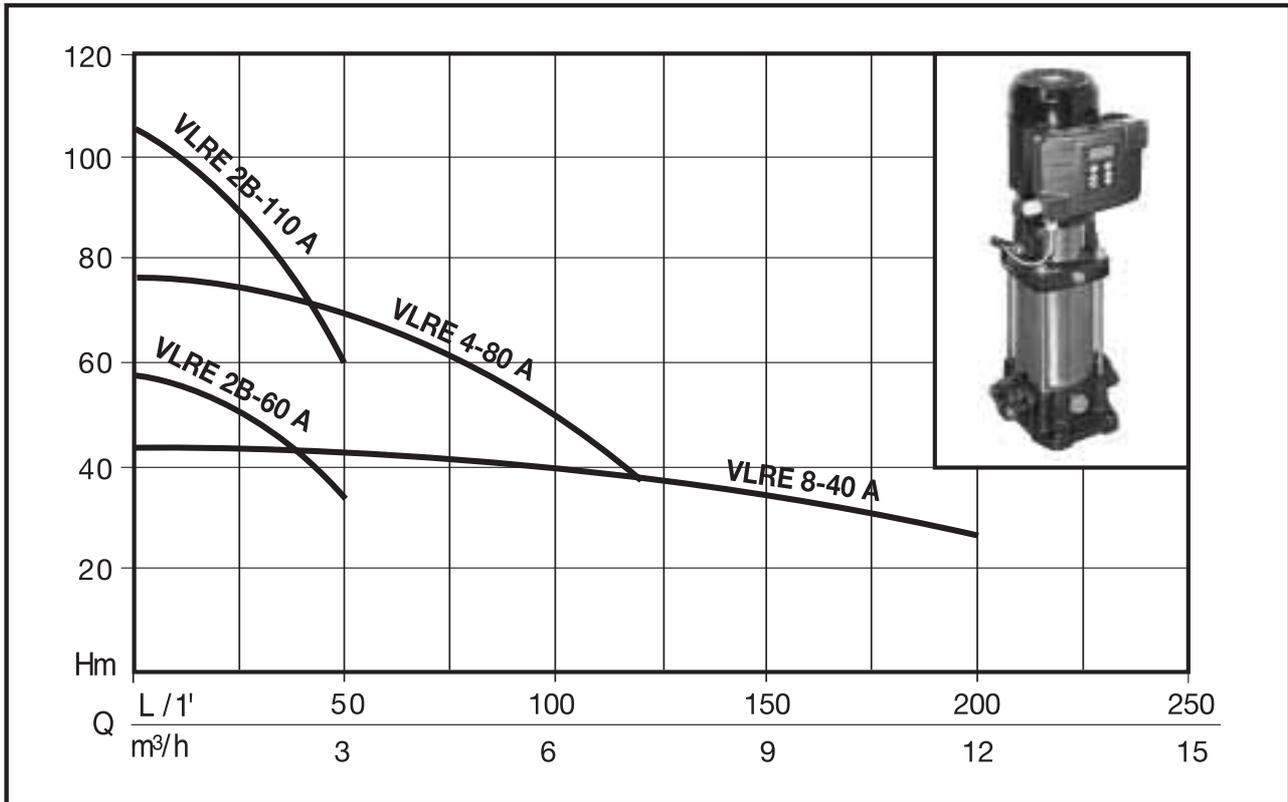


TABLE OF HYDRAULIC PERFORMANCE



PUMP PERFORMANCE

CODE	MODEL	Motor Power		VOLTAGE (V)	Amp.	Q	Discharge head in meters															
		HP	kW				0	10	20	30	40	50	60	80	100	120	150	175	200			
N4700160	VLRE 2B-60 A	1	0,75	1 ~ 230	2,7	L/1' / m³/h	0	10	20	30	40	50	60	80	100	120	150	175	200			
N4700170	VLRE 2B-110 A	1,5	1,1	1 ~ 230	4,3		0	0,6	1,2	1,8	2,4	3	3,6	4,8	6	7,2	10	10,5	12			
N4700150	VLRE 4-80 A	2	1,5	1 ~ 230	5,9		58	56	51	48	42	33										
N4700140	VLRE 8-40 A	2	1,5	1 ~ 230	5,9		105	100	93	84	74	60										
							77				71	69	67	59	50	37						
							44					42	41	41	40	38	35	30	26			

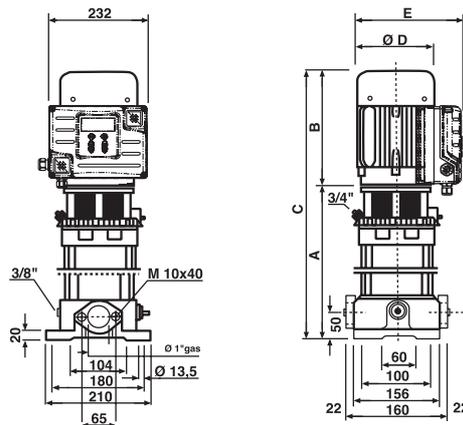
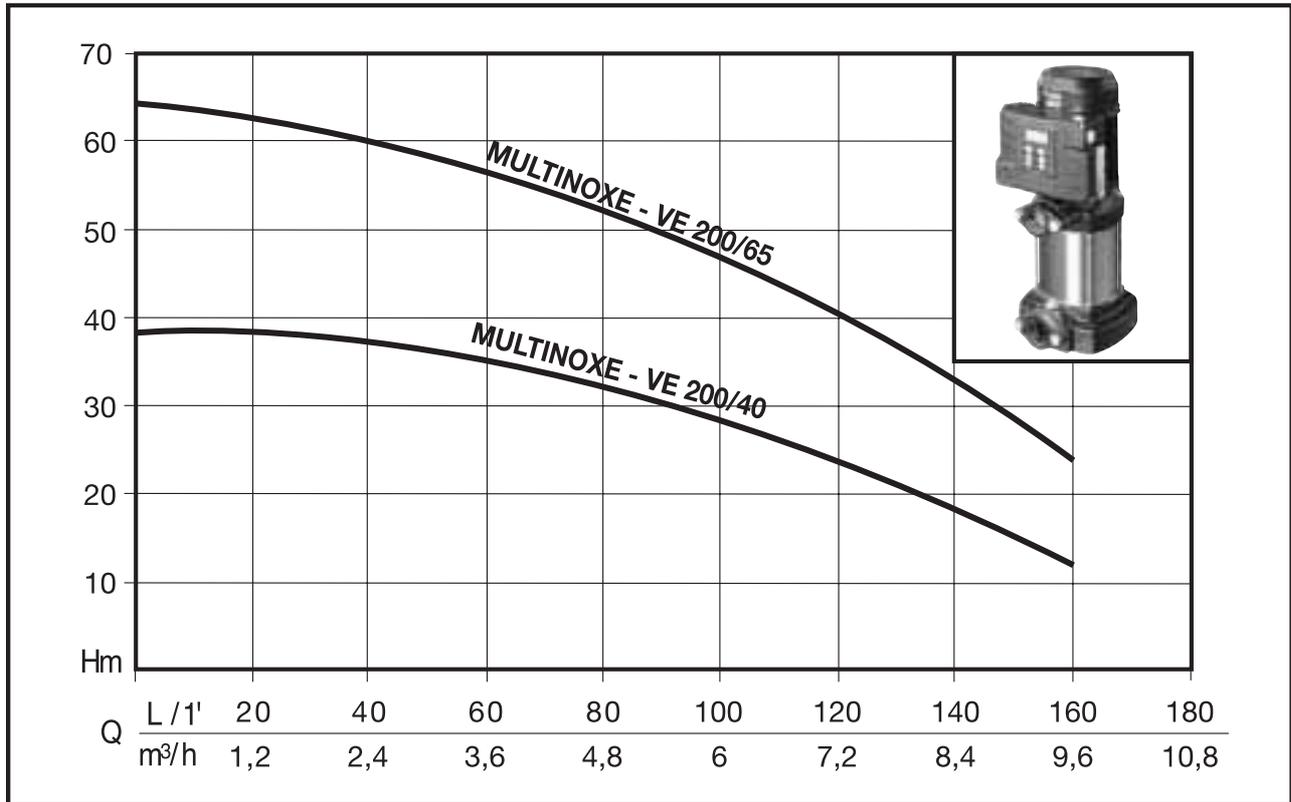


TABLE OF SIZES AND WEIGHTS

Model	Dimensions mm.					Weight kg
	A	B	C	D	E	
VLRE 2B-60 A	296	237	533	160	135	28
VLRE 2B-110 A	386	237	623	160	135	38
VLRE 4-80 A	423	265	688	185	155	35
VLRE 8-40 A	420	265	685	185	155	42

TABLE OF HYDRAULIC PERFORMANCE



PUMP PERFORMANCE

CODE	MODEL	Motor Power		VOLTAGE (V)	Amp.	Q	0	20	40	80	120	160
		HP	kW				L/1'	0	1,2	2,4	4,8	7,2
N4700130	MULTINOXE-VE 200/40	1,9	1,1	1 ~ 230	3,6	Discharge head in meters	39	38	37	32	24	12
N4700120	MULTINOXE-VE 200/65	1,5	1,4	1 ~ 230	6		64	63	60	52	40	24

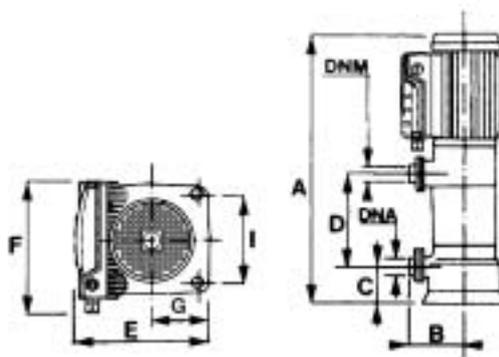
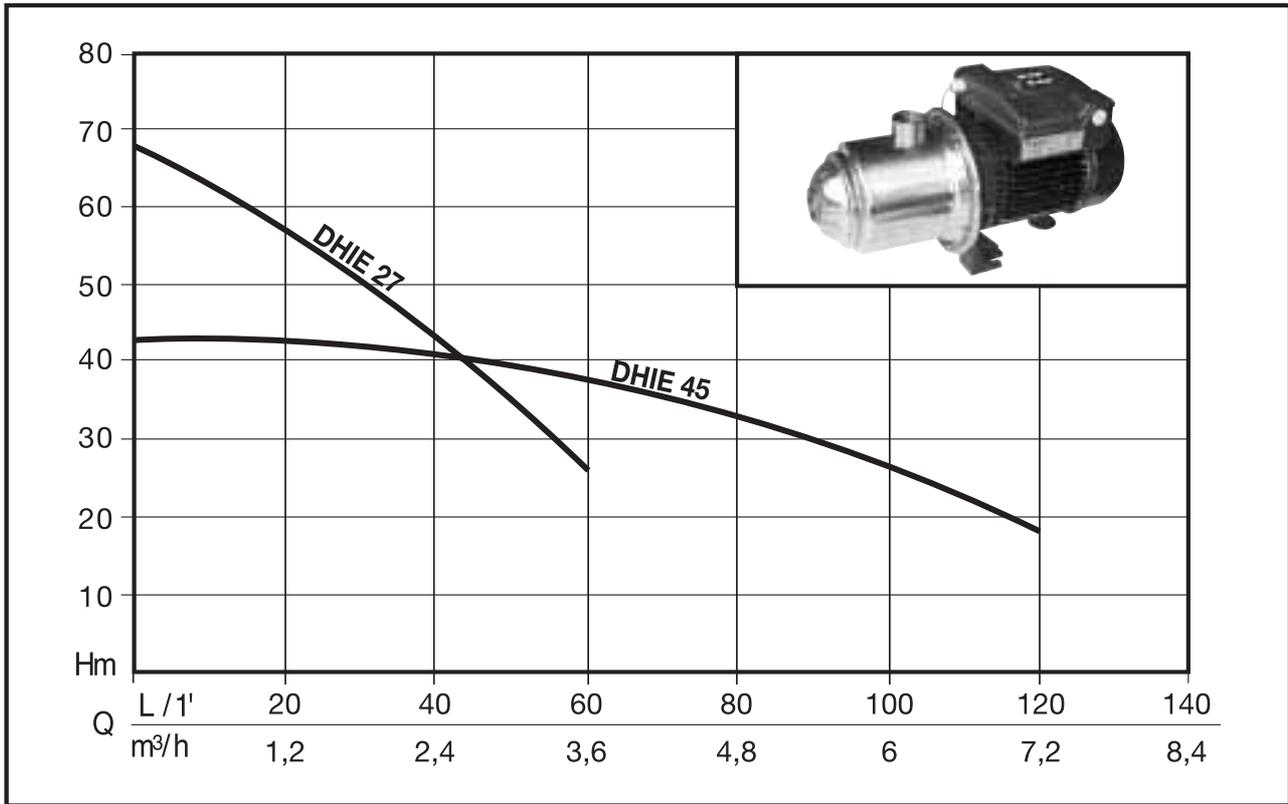


TABLE OF SIZES AND WEIGHTS

Model	Dimensions mm.										Weight kg
	A	B	C	D	E	F	G	I	DNA	DNM	
MULTINOXE-VE 200/40	438	115	37	143	232	220	72,5	145	1" 1/4	1" 1/4	21,2
MULTINOXE-VE 200/65	504	115	37	203	232	220	72,5	145	1" 1/4	1" 1/4	25,1

TABLE OF HYDRAULIC PERFORMANCE



PUMP PERFORMANCE

CODE	MODEL	Motor Power		VOLTAGE (V)	Amp.	Q	Discharge head in meters											
		HP	kW				L/1'	0	10	20	30	40	50	60	80	100	120	
N4700090	DHIE 27	1,25	0,9	1 ~ 230	4,4	m³/h	0	0,6	1,2	1,8	2,4	3	3,6	4,8	6	7,2		
N4700080	DHIE 45	1,25	0,9	1 ~ 230	4,4	m³/h	0	0,6	1,2	1,8	2,4	3	3,6	4,8	6	7,2		

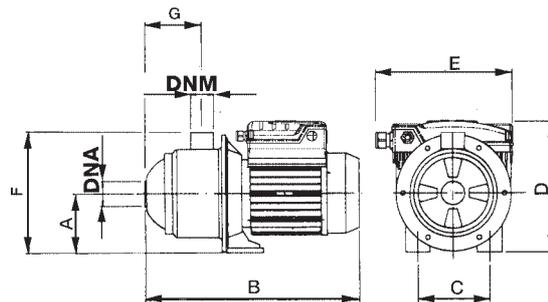
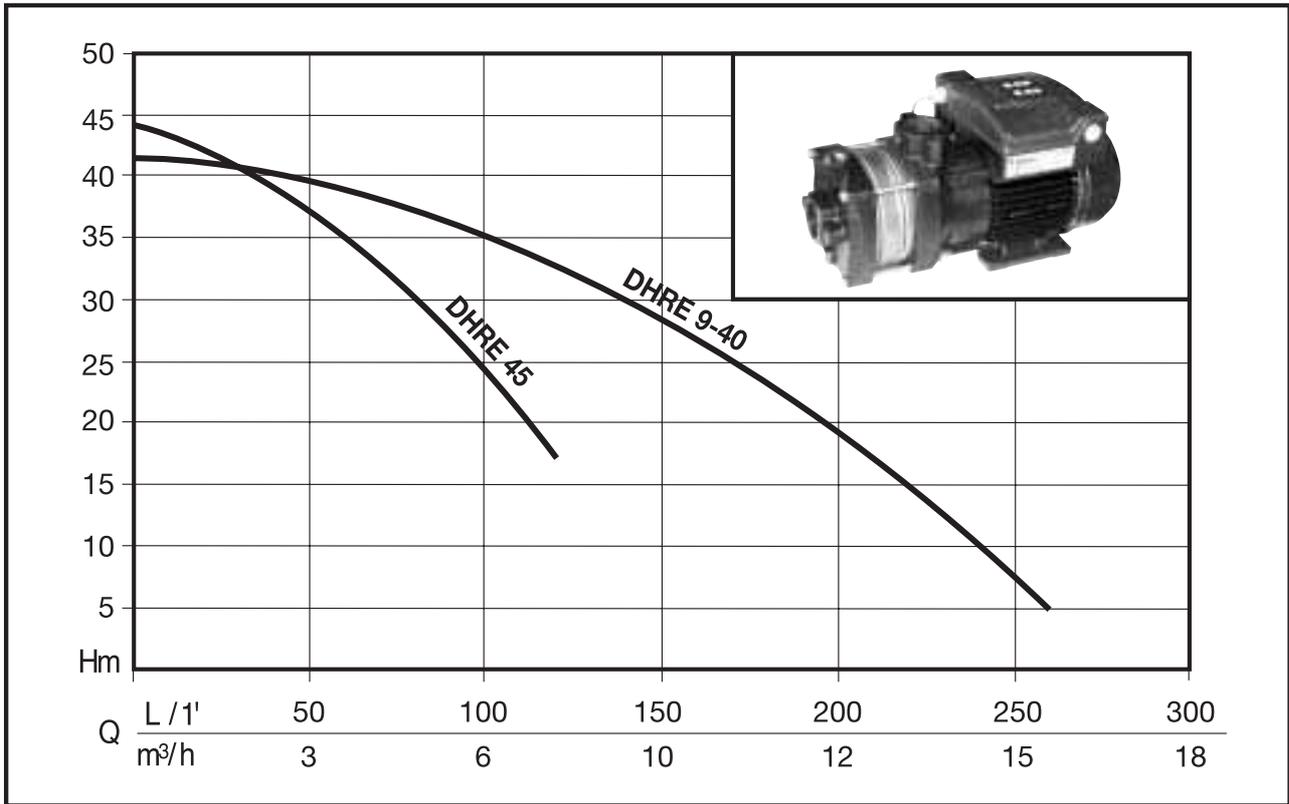


TABLE OF SIZES AND WEIGHTS

Model	Dimensions mm.									Weight
	A	B	C	D	E	F	G	DNA	DNM	kg
DHIE 27	105	460	141	245	232	235	135	1" 1/4	1" 1/4	17,4
DHIE 45	105	460	141	245	232	235	135	1" 1/4	1" 1/4	17,4

TABLE OF HYDRAULIC PERFORMANCE



PUMP PERFORMANCE

CODE	MODEL	Motor Power		VOLTAGE (V)	Amp.	Q	Discharge head in meters									
		HP	kW				0	40	60	80	100	120	160	200	240	260
N4700070	DHRE 45	1,5	1,1	1 ~ 230	4,2	L/1' / m³/h	0	2,4	3,6	4,8	6	7,2	9,6	12	14,4	15,6
N4700030	DHRE 9-40	1,74	1,3	1 ~ 230	5,3	Discharge head in meters	44	39	35	30	24	17				
							41,5	40	39	38	35	33	27	19	10	5

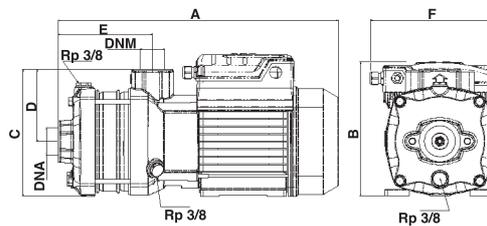
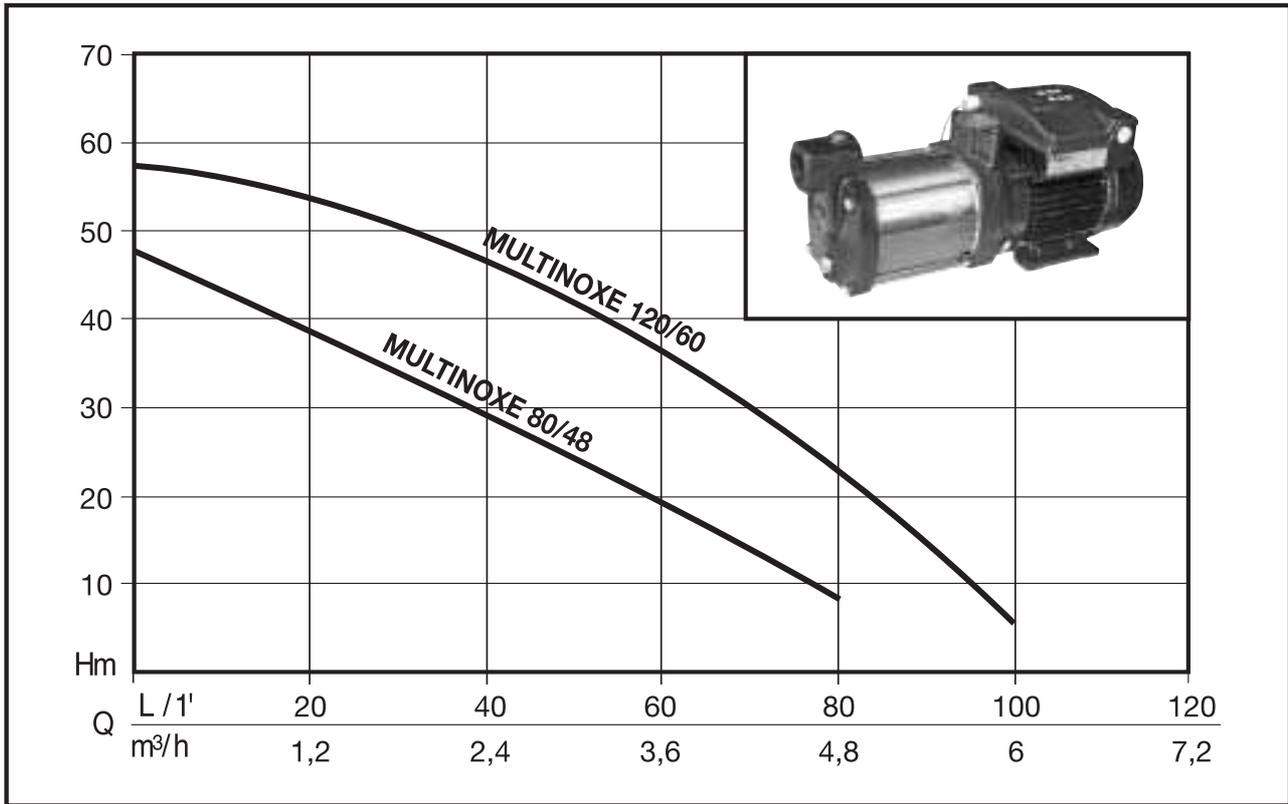


TABLE OF SIZES AND WEIGHTS

Model	Dimensions mm.								Weight kg
	A	B	C	D	E	F	DNA	DNM	
DHRE 45	445	225	155	65	190	232	1" 1/4	1"	18
DHRE 9-40	408	215	185	105	137	232	1" 1/2	1" 1/4	21,1

TABLE OF HYDRAULIC PERFORMANCE



PUMP PERFORMANCE

CODE	MODEL	Motor Power		VOLTAGE (V)	Amp.	Q	Discharge head in meters					
		HP	kW				L/1'	0	20	40	60	80
N4700110	MULTINOXE 80/48	0,75	0,55	1 ~ 230	2,7	m³/h	0	1,2	2,4	3,6	4,8	6
N4700100	MULTINOXE 120/60	1,2	0,9	1 ~ 230	2,7	m³/h	48	37	29	20	8	
						m³/h	58	53	46	36	25	4

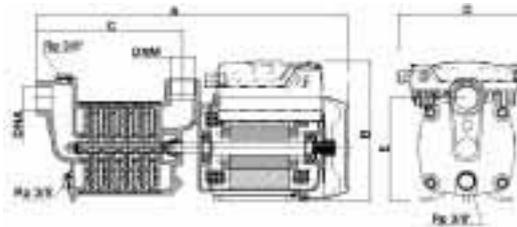
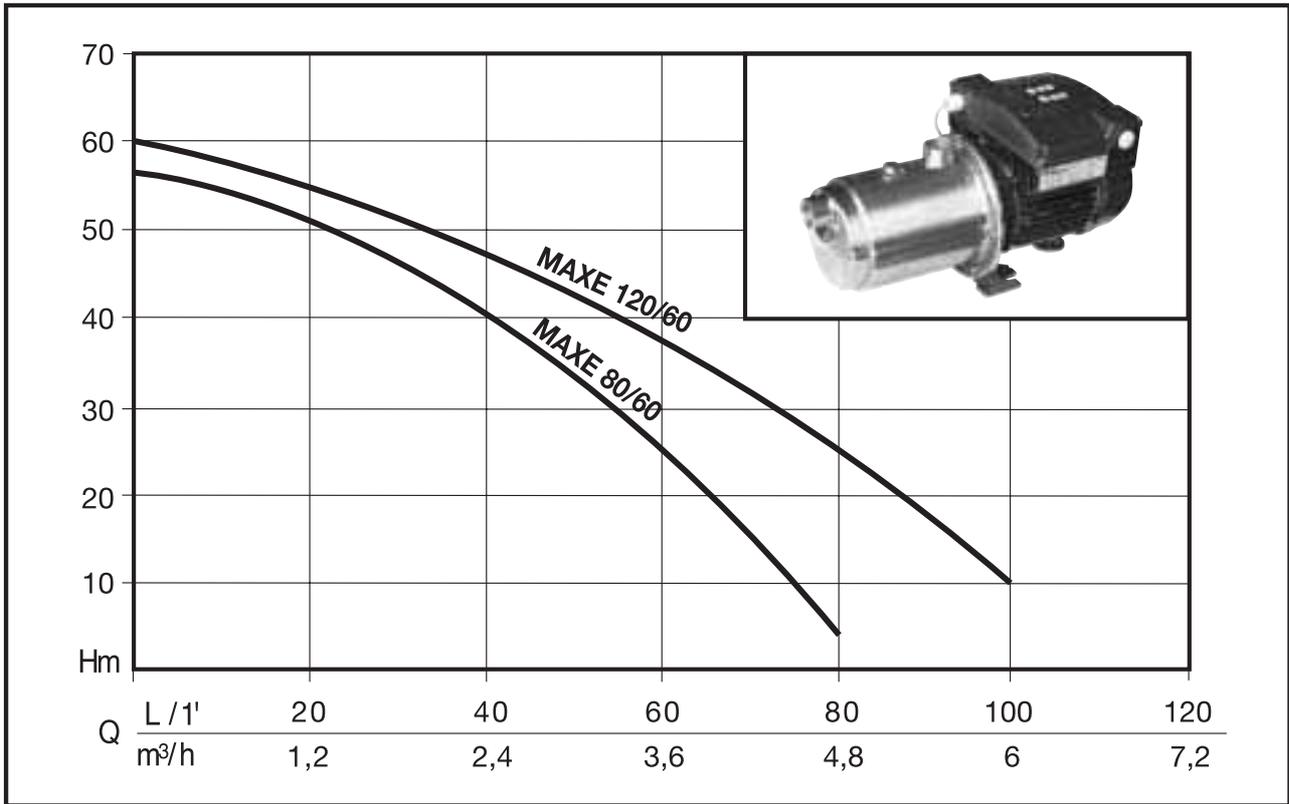


TABLE OF SIZES AND WEIGHTS

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

TABLE OF HYDRAULIC PERFORMANCE



PUMP PERFORMANCE

CODE	MODEL	Motor Power		VOLTAGE (V)	Amp.	Q	Discharge head in meters					
		HP	kW				0	20	40	60	80	100
N4700060	MAXE 80/60	1	0,75	1 ~ 230	2,9	L/1' / m³/h	0	20	40	60	80	100
N4700040	MAXE 120/60	1,2	0,9	1 ~ 230	3,5		0	1,2	2,4	3,6	4,8	6

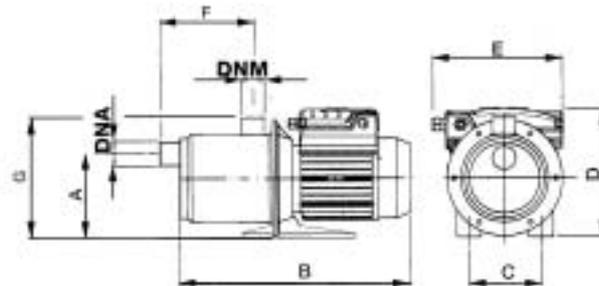
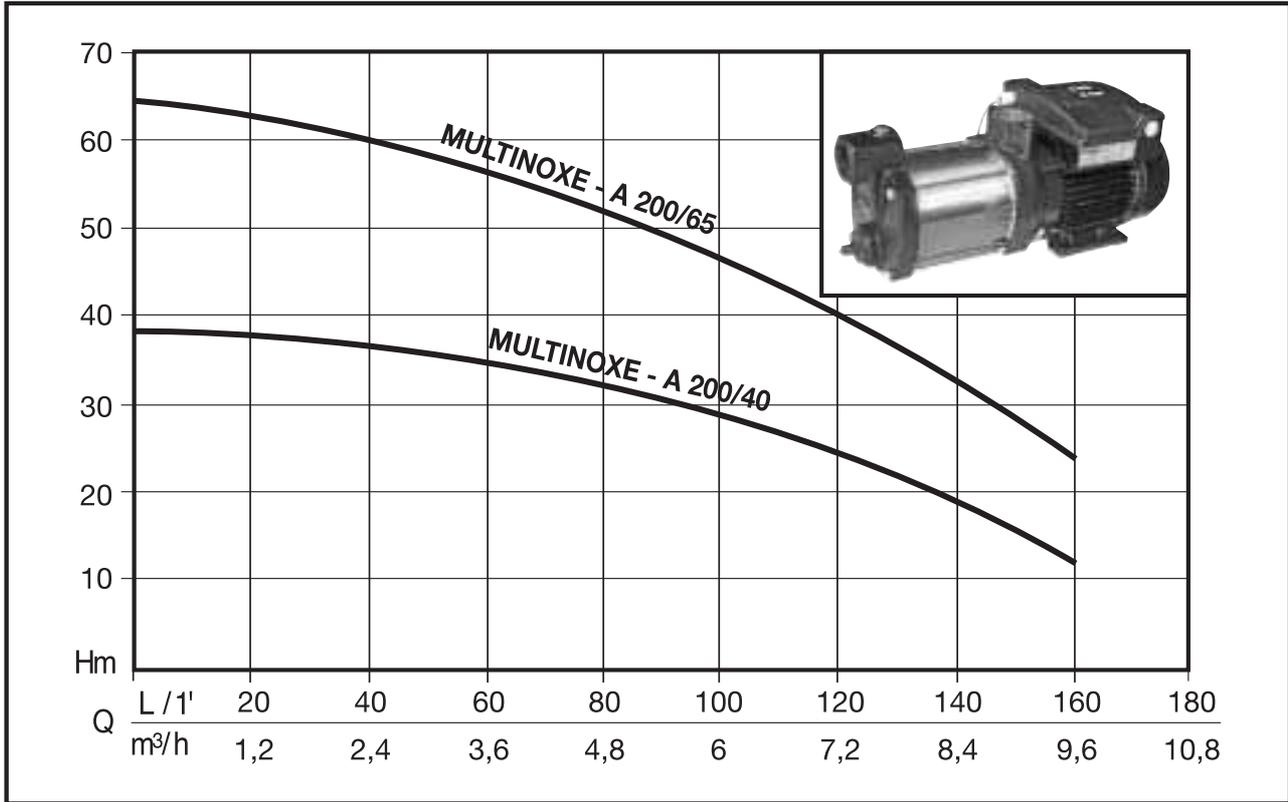


TABLE OF SIZES AND WEIGHTS

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

TABLE OF HYDRAULIC PERFORMANCE



PUMP PERFORMANCE

CODE	MODEL	Motor Power		VOLTAGE (V)	Amp.	Q	L/1' / m³/h					
		HP	kW				0	20	40	80	120	160
N4700010	MULTINOXE - A 200/40	1,5	1,4	1 ~ 230	6	Discharge head in meters	64	38	37	32	24	12
N4700050	MULTINOXE - A 200/65	1,9	1,1	1 ~ 230	3,6		39	63	60	52	40	24

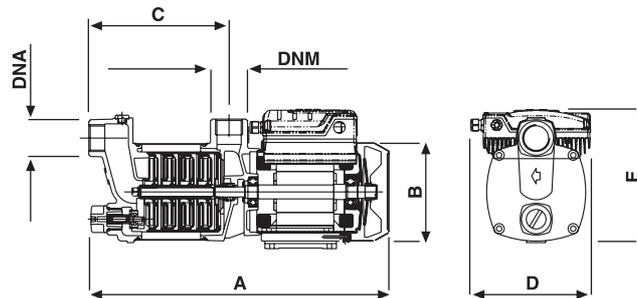


TABLE OF SIZES AND WEIGHTS

Model	Dimensions mm.							Weight kg
	A	B	C	D	E	DNA	DNM	
MULTINOXE - A 200/40	441	170	188	232	225	1" 1/4	1" 1/4	21,2
MULTINOXE - A 200/65	497	170	243	232	225	1" 1/4	1" 1/4	24