VXC

VORTEX submersible electropumps
for sewage waters

VORTEX submersible pumps made of cast iron, particularly sturdy and reliable, indicated in fixed installations, for continuous heavy-duty use on building sites and in industries, recommended for pumping sewage and waste waters of all types with solid impurities.

RANGE OF PERFORMANCE
Flow rate up to 1200 l/min (72 m³/h)
Head up to 16 m

LIMITS OF USE
Depth of use up to 10 m
Liquid temperature up to + 40°C
Passage of solid bodies max Ø 50 mm for VXC 15-20-30/**50**
Passage of solid bodies max Ø 70 mm for VXC 15-20-30/**70**
For continuous duty: minimum immersion 420 mm

EXECUTION AND SAFETY STANDARDS
EN 60034-1
IEC 34-1
CEI 2-3

CE

USES AND INSTALLATIONS
THE PUMPS IN THE **VXC** SERIES, MADE OF EXCEPTIONALLY STURDY HEAVY-GAUGE CAST IRON, RESISTANT TO ABRASION AND LONG-LASTING, ARE EQUIPPED WITH A **VORTEX TYPE IMPELLER**, SO THEY ARE SUITABLE FOR DRAINING SOLID-LADEN WATERS, SEWAGE, WASTE WATERS, WATERS MIXED WITH MUD, STIRRED SLUDGE AND ROTTEN SLUDGE. THEY ARE INDICATED FOR INSTALLATION IN SEWERS, TUNNELS, EXCAVATIONS, CHANNELS, UNDERGROUND CAR PARKS, ETC.

GUARANTEE 1 YEAR subject to our general terms of sale.

CONSTRUCTION CHARACTERISTICS
- **PUMP BODY, MOTOR CASING: cast iron.**
- **IMPELLER: cast iron.**
- **BASE: stainless steel AISI 304.**
- **MOTOR SHAFT: stainless steel EN 10088-3 - 1.4057.**
- **DOUBLE MECHANICAL SEAL: carburundum - widia - NBR** pump side and sealing ring on motor side (with interposed oil barrier chamber for lubricating and cooling the seal surfaces in case of lack of water).
- **MOTOR**: submersible asynchronous, 2 pole, for continuous duty.
  VXCm: single-phase 220÷240 V - 50 Hz with thermal overload protector built into the winding up to 1.5 kW.
  - In the 2.2 kW single-phase versions the built-in motor protector is to be suitably connected to the coil of the contactor,
  VXC: three-phase 380÷415 V - 50 Hz.
  - In the three-phase versions , three thermal protectors, in series, are positioned in the winding, to be suitably connected to the coil of the contactor.
- **INSULATION:** class F. ● **PROTECTION:** IP 68.

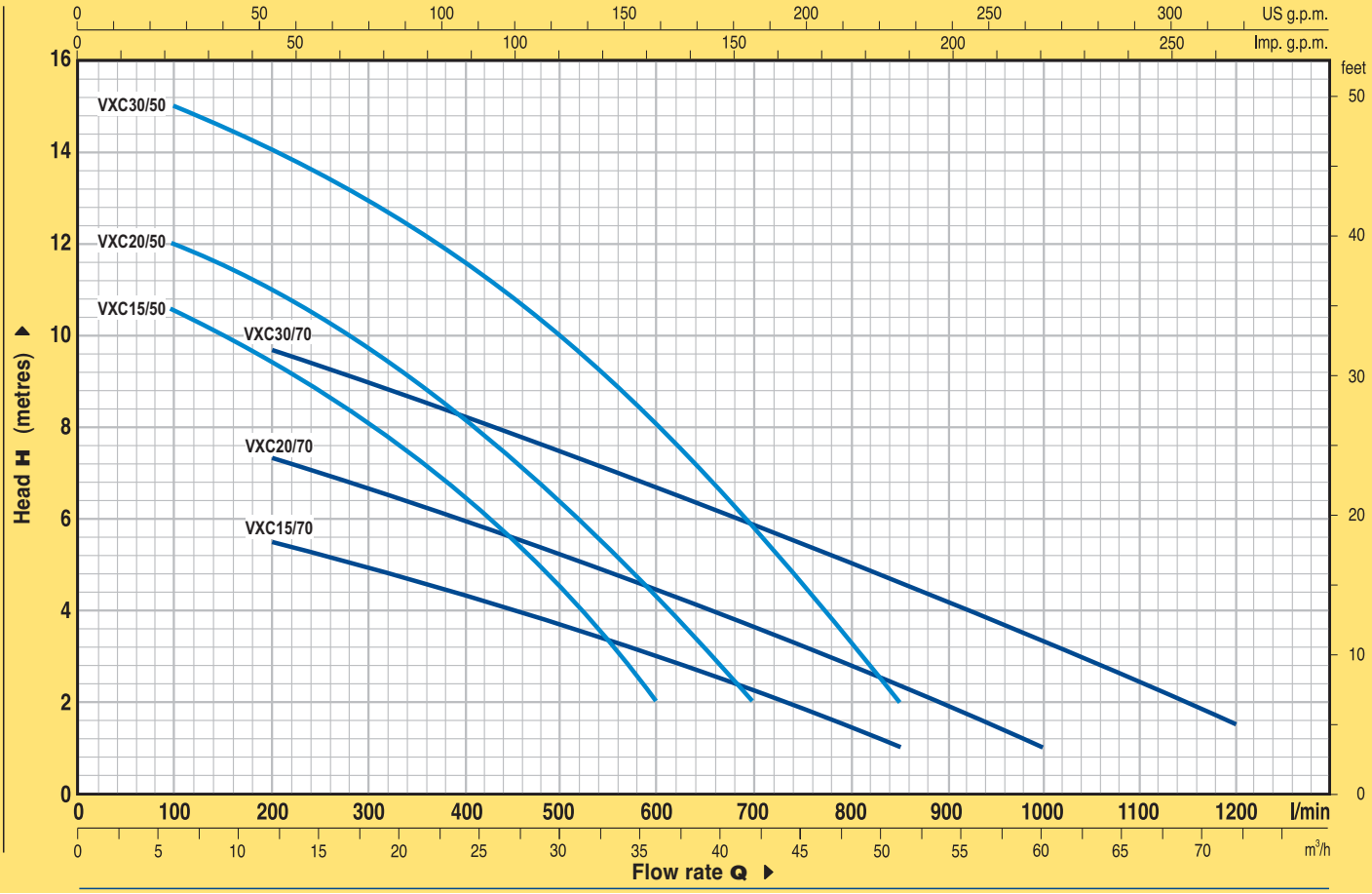
THE ELECTROPUMPS ARE COMPLETE WITH:
VXCm (single-phase) Float switch.
Neoprene power cable "H07 RN-F" length 10 metres **with** Schuko plug.
For powers from 1.1 to 1.5 kW, electric panel with condenser and motor protector with manual reset
For power 2.2 kW electric panel type QES 300 MONO.

VXC (three-phase) Neoprene power cable "H07 RN-F" length 10 metres.

EXECUTIONS ON REQUEST
⇒ electric panel for three-phase electropumps
⇒ dual voltage: 230/400 V or 400/690 V
⇒ single-phase electropumps without float switch
⇒ other voltages or frequency 60 Hz

PEDROLLO
... the spring of life

CURVES AND PERFORMANCE DATA AT n= 2900 1/min

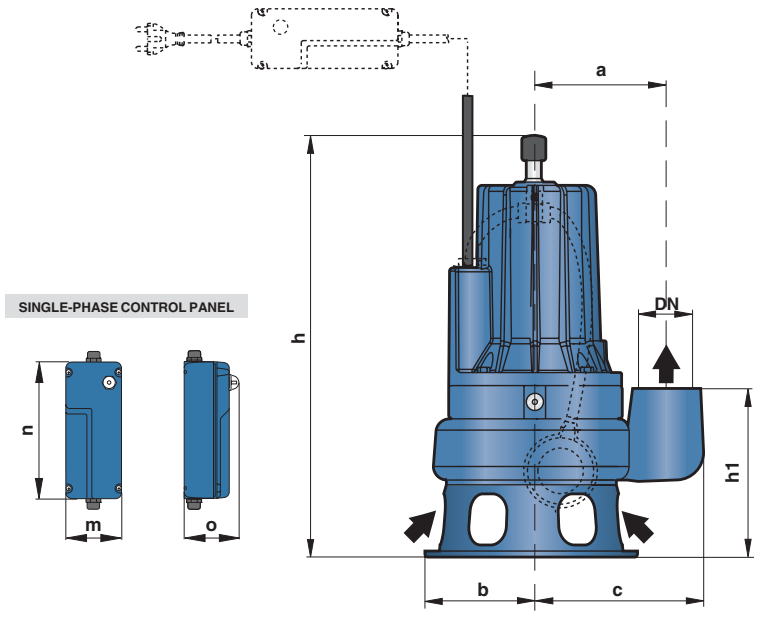


TYPE		POWER		Q															
Single-phase	Three-phase	kW	HP	m³/h	0	6	12	18	21	24	30	36	42	48	51	54	60	66	72
				l/min	0	100	200	300	350	400	500	600	700	800	850	900	1000	1100	1200
VXCm 15/50	VXC 15/50	1.1	1.5	H metres	11.5	10.5	9.5	8.2	7.2	6.5	4.5	2							
VXCm 20/50	VXC 20/50	1.5	2		13	12	11	9.5	9	8	6.5	4.5	2						
VXCm 30/50	VXC 30/50	2.2	3		16	15	14	13	12.3	11.5	10	8	5.9	3.3	2				
VXCm 15/70	VXC 15/70	1.1	1.5		6.5	—	5.5	5	4.7	4.4	3.7	3	2.2	1.5	1				
VXCm 20/70	VXC 20/70	1.5	2		8.5	—	7.4	6.7	6.3	6	5.2	4.5	3.6	2.8	2.4	2	1		
VXCm 30/70	VXC 30/70	2.2	3		11	—	9.7	9	8.6	8.2	7.5	6.7	5.8	5	4.6	4.2	3.3	2.5	1.5

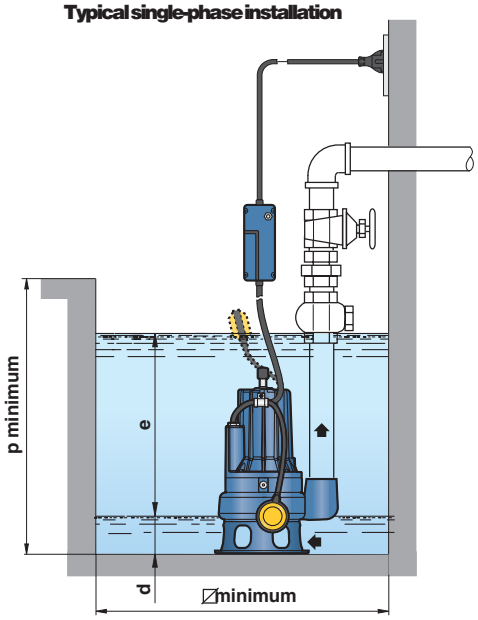
Q = Flow rate **H** = Total manometric head

Tolerance of the performance curves according to EN ISO 9906 App. A.

DIMENSIONS AND WEIGHTS



Typical single-phase installation



TYPE		INLET	passage of solid bodies	DIMENSIONS mm												kg	
Single-phase	Three-phase	DN		a	b	c	h	h1	m	n	o	d	e	p	⍁	1~	3~
VXCm 15/50	VXC 15/50	2 1/2"	Ø 50 mm	162	135	212	490	188	81	200	85	75	adjustable	800	800	33.3	31.0
VXCm 20/50	VXC 20/50															34.8	33.3
VXCm 30/50	VXC 30/50						500/490									40.7	34.8
VXCm 15/70	VXC 15/70	3"	Ø 70 mm	180	150	240	530	230				85				38.9	36.6
VXCm 20/70	VXC 20/70															40.8	38.9
VXCm 30/70	VXC 30/70						540/530									47.0	41.1