VX VORTEX submersible pumps
for sewage water

VORTEX submersible pumps for professional use, particularly reliable with generous motor specification and hard-faced mechanical seal. The proven VORTEX system allows the clearing of dirty water containing suspended solids.

RANGE OF PERFORMANCE
Flow rate up to 500 l/min (30 m³/h)
Head up to 15 m

LIMITS OF USE
Depth up to 5 m
Liquid temperature up to + 40°C
Passage of suspended solid bodies up to Ø 50 mm
For continuous duty: minimum immersion 290 mm from pump base

CONSTRUCTION AND SAFETY STANDARDS

EN 60 335-1	EN 60034-1
IEC 335-1	IEC 34-1
CEI 61-150	CEI 2-3

CE

INSTALLATION AND USE
THEY ARE RECOMMENDED FOR DOMESTIC, CIVIL AND INDUSTRIAL USE, IN APPLICATIONS WHERE THE WATER CONTAINS SUSPENDED SOLIDS WITH DIMENSIONS UP TO **Ø 50 mm**. THEIR USE IS RECOMMENDED FOR DRYING FLOODED AREAS SUCH AS CELLARS, UNDERGROUND CAR PARKS, CAR WASHING AREAS, OR DOMESTIC DRAINS AND FOR EMPTYING CESSPITS OR SEWAGE DISPOSAL. THESE PUMPS ARE OUTSTANDING IN THEIR RELIABILITY IN FIXED INSTALLATIONS WITH AUTOMATIC OPERATION.

GUARANTEE 2 YEARS subject to our general terms of sale.

CONSTRUCTION CHARACTERISTICS
- **DELIVERY BODY: cast iron**, with threaded port ISO 228/1.
- **MOTOR CASING: stainless steel AISI 304.**
- **BASE: stainless steel AISI 304.**
- **IMPELLER: stainless steel AISI 304.**
- **MOTOR SHAFT: stainless steel EN 10088-3 - 1.4104.**
- **DOUBLE SEAL:** mechanical seal **silicon carbide - NBR**, with oil barrier chamber and inner lip seal to protect the seal in the event of dry running.
- **MOTOR:** submersible asynchronous for continuous duty.
  VXm: single-phase 220÷240 V - 50 Hz with capacitor and thermal overload protector.
  VX: three-phase 380÷415 V - 50 Hz.
- **INSULATION:** class F. ● **PROTECTION:** IP 68.

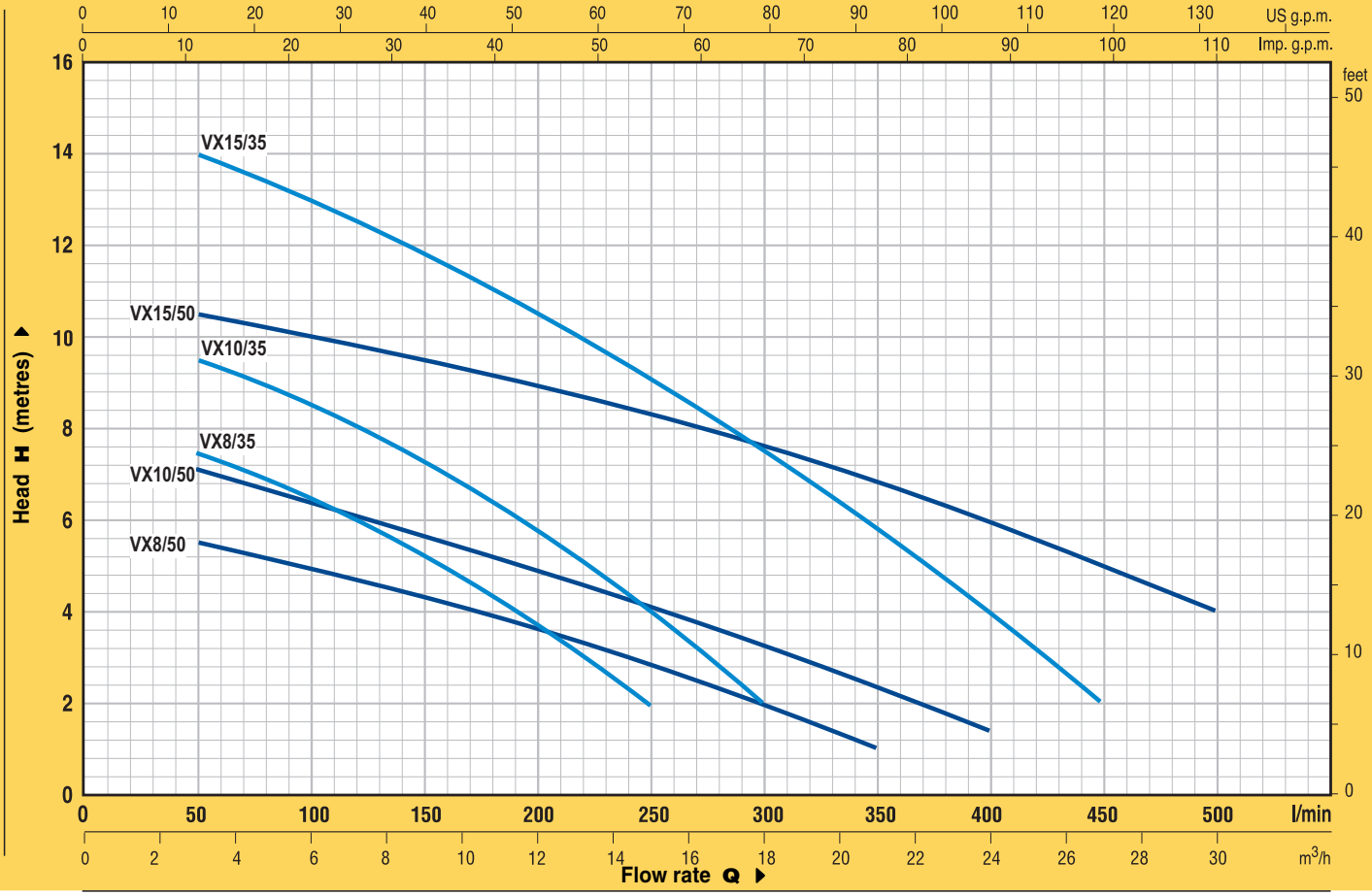
STANDARD FEATURES:
VXm (single-phase) Float switch.
Neoprene power cable "H07 RN-F"
length **5 metres** with Schuko plug.

VX (three-phase) Neoprene power cable "H07 RN-F"
length **5 metres**.

OPTIONS ON REQUEST
⇒ 10 metre power cable.
N.B. required for outdoor use to comply to standard EN 60335-2-41
⇒ control panel for three-phase pumps 1.1 kW
⇒ single-phase pumps without float switch
⇒ other voltages or frequency 60 Hz

PEDROLLO ... the spring of life

CURVES AND PERFORMANCE DATA AT n= 2900 1/min

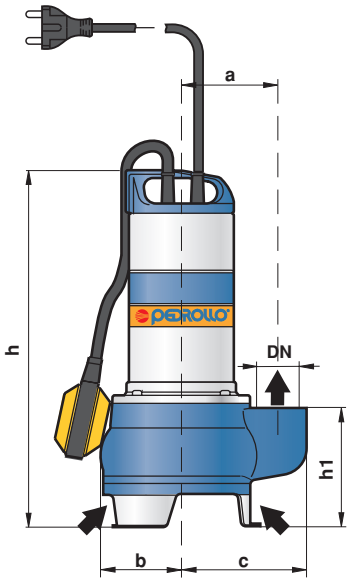


TYPE		POWER		Q											
Single-phase	Three-phase	kW	HP	m³/h	0	3	6	9	12	15	18	21	24	27	30
				l/min	**0**	**50**	**100**	**150**	**200**	**250**	**300**	**350**	**400**	**450**	**500**
VXm 8/35	——	0.60	0.85	H metres	8.4	7.5	6.5	5.2	3.7	2					
VXm 10/35	VX 10/35	0.75	1		10	9.5	8.5	7.2	5.8	4	2				
VXm 15/35	VX 15/35	1.1	1.5		15	14	13	11.8	10.5	9	7.5	6	4	2	
VXm 8/50	——	0.60	0.85		6	5.5	5	4.4	3.6	2.8	2	1			
VXm 10/50	VX 10/50	0.75	1		7.5	7	6.5	5.8	5	4	3.2	2.4	1.5		
VXm 15/50	VX 15/50	1.1	1.5		11	10.5	10	9.5	9	8.3	7.5	6.8	6	5	4

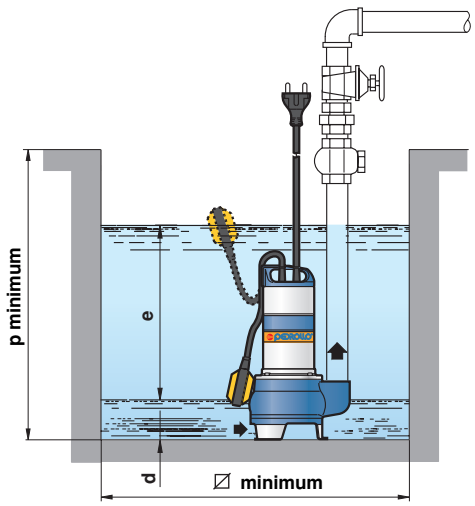
Q = Flow rate **H** = Total manometric head

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

DIMENSIONS AND WEIGHTS



Typical single-phase installation



TYPE		PORT	passage of solid bodies	DIMENSIONS mm									kg	
Single-phase	Three-phase	DN		a	b	c	h	h1	d	e	p	⍁	1~	3~
VXm 8/35	——	1 1/2"	Ø 35 mm	105	87	137	380	123	40	adjustable	500	500	12.4	-
VXm 10/35	VX 10/35												13.5	12.1
VXm 15/35	VX 15/35				92	143	400	133	55				15.7	14.6
VXm 8/50	——	2"	Ø 50 mm	110	90	150	410	153					13.4	-
VXm 10/50	VX 10/50												13.9	12.1
VXm 15/50	VX 15/50			120	97	163	430	158	65				16.1	15.0