Submersible pumps

Filthy water

Domestic use

Civil use

PERFORMANCE RANGE

- Flow rate up to **650 l/min** (39 m^3/h)
- Head up to **14 m**

APPLICATION LIMITS

- **10 m** maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature **+40 °C**
- Passage of solids:
  – up to **Ø 40 mm** for VXC /35-N
  – up to **Ø 50 mm** for VXC /45-N
- Minimum immersion depth for continuous service:
  – **280 mm** for VXC /35-N
  – **300 mm** for VXC /45-N

CONSTRUCTION AND SAFETY STANDARDS

- **10 m** long power cable
- Float switch for single-phase versions

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3

CE

CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY
ISO 14001: ENVIRONMENT

EAC

INSTALLATION AND USE

VXC series pumps, made from heavy gauge cast iron offering exceptional sturdiness and abrasion resistance, come equipped with a VORTEX impeller and are therefore suitable for draining **waste water containing suspended solids, filthy water and mixed with mud**.

PATENTS - TRADE MARKS - MODELS

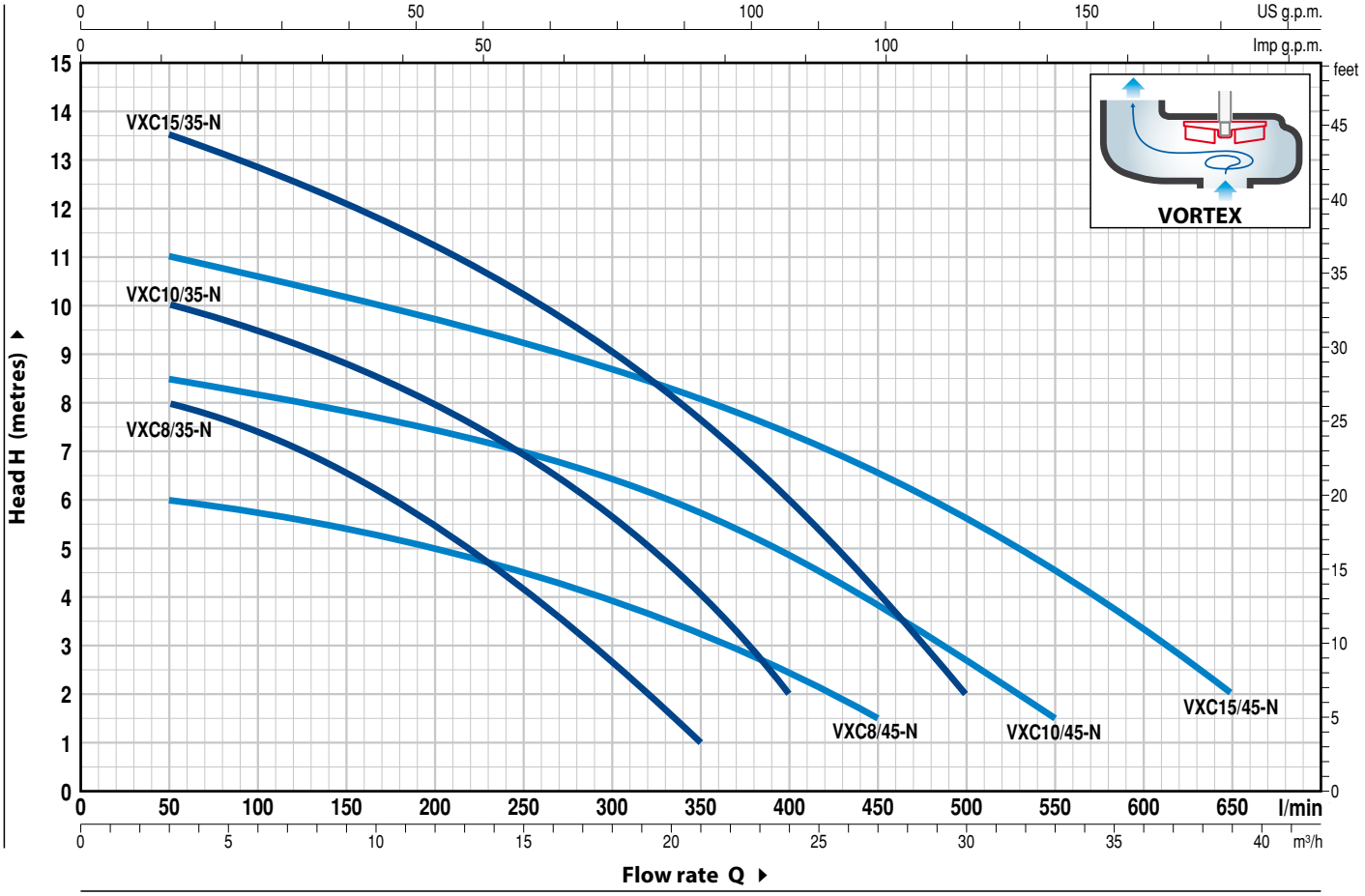
- Patent Pending n. BO2015A000116
- Registered EU Design n. 002501486-0003

OPTIONS AVAILABLE ON REQUEST

- Single-phase pumps without float switch
- Other voltages or 60 Hz frequency

CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 rpm



MODEL		POWER (P2)		Q	m³/h	0	3	6	12	18	21	24	27	30	33	36	39
Single-phase	**Three-phase**	**kW**	**HP**		l/min	**0**	**50**	**100**	**200**	**300**	**350**	**400**	**450**	**500**	**550**	**600**	**650**
VXCm 8/35 -N	**VXC 8/35 -N**	0.55	0.75	**H**	metres	9	8	7.5	5.5	2.7	1						
VXCm 10/35-N	**VXC 10/35-N**	0.75	1			11	10	9.5	8	5.7	4	2					
VXCm 15/35-N	**VXC 15/35-N**	1.1	1.5			14	13.5	12.8	11.2	9	7.7	6	4	2			
VXCm 8/45 -N	**VXC 8/45 -N**	0.55	0.75			6.5	6	5.8	5	4	3.3	2.5	1.5				
VXCm 10/45-N	**VXC 10/45-N**	0.75	1			9	8.5	8.2	7.5	6.5	5.8	5	3.8	2.5	1.5		
VXCm 15/45-N	**VXC 15/45-N**	1.1	1.5			11.5	11	10.5	9.8	8.7	8	7.5	6.5	5.5	4.5	3.5	2

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

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS
1	**PUMP BODY**	Cast iron with an Epoxy Electro Coating treatment, with threaded port in compliance with ISO 228/1
2	**BASE**	Stainless steel AISI 304
3	**IMPELLER**	Stainless steel AISI 304 VORTEX type
4	**MOTOR CASING**	Cast iron with an Epoxy Electro Coating treatment
5	**MOTOR CASING PLATE**	Stainless steel AISI 304
6	**MOTOR SHAFT**	Stainless steel EN 10088-3 - 1.4104

7 SHAFT WITH DOUBLE MECHANICAL SEAL SEPARATED BY AN OIL CHAMBER

Seal	*Shaft*	*Position*		*Materials*	
Model	*Diameter*		*Stationary ring*	*Rotational ring*	*Elastomer*
MG1-14D SIC	**Ø 14** mm	Motor side	Silicon carbide	Graphite	NBR
		Pump side	Silicon carbide	Silicon carbide	NBR

8 BEARINGS **6203 ZZ / 6203 ZZ**

9 CAPACITOR

Pump	*Capacitance*	
Single-phase	*(230 V or 240 V)*	*(110 V)*
VXCm 8/35 -N **VXCm 8/45 -N** **VXCm 10/35 -N** **VXCm 10/45 -N**	**20** µF 450 VL	**30** µF - 250 VL
VXCm 15/35 -N **VXCm 15/45 -N**	**25** µF 450 VL	–

10 ELECTRIC MOTOR

VXCm: single-phase 230 V - 50 Hz
with thermal overload protector incorporated into the winding
VXC: three-phase 400 V - 50 Hz

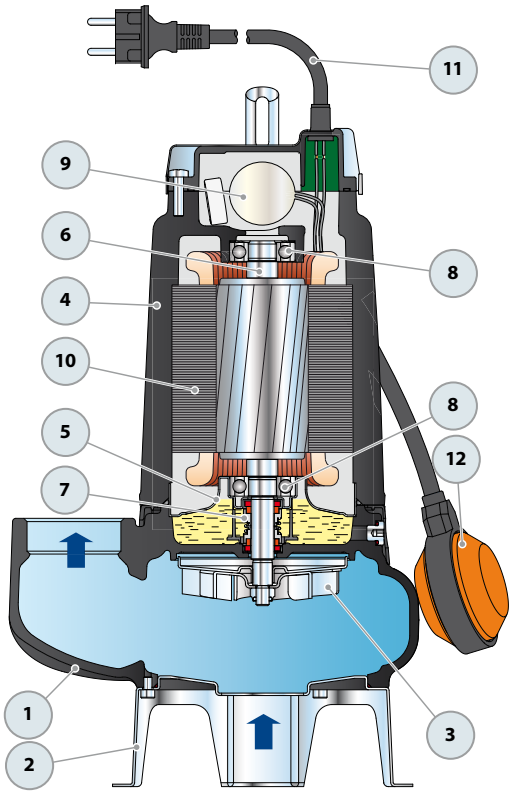
– Insulation: class F
– Protection: IP X8

11 POWER CABLE

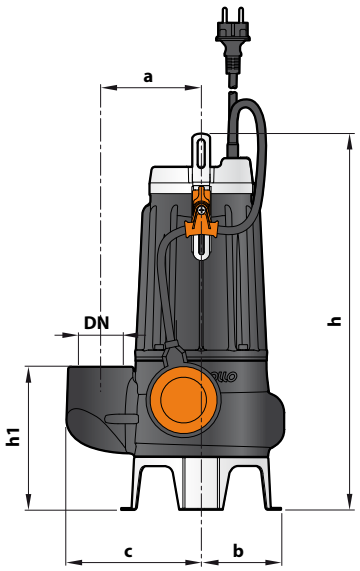
"H07 RN-F" type
(with Schuko plug for single-phase versions only)
Standard length 10 metres

12 FLOAT SWITCH

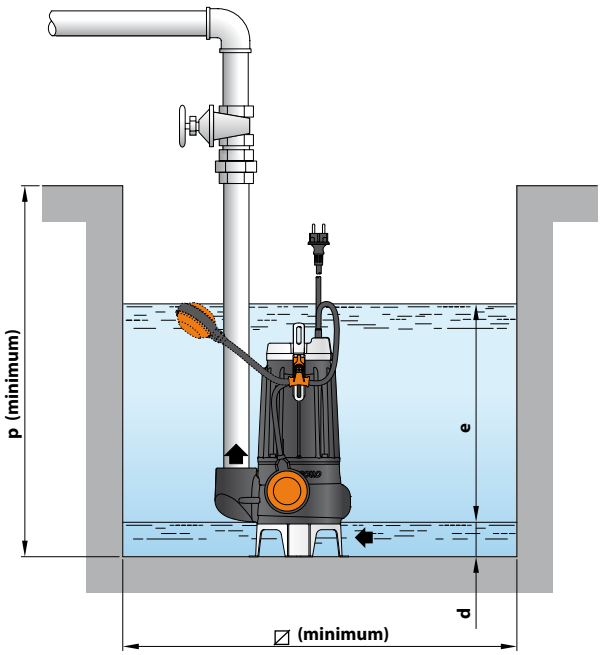
(only for single-phase versions)



DIMENSIONS AND WEIGHT



Standard installation



MODEL		PORT	Passage of solids	DIMENSIONS mm									kg	
Single-phase	Three-phase	DN		a	b	c	h	h1	d	e	p	⍁	1~	3~
VXCm 8/35 -N	VXC 8/35 -N	1½"	Ø 40 mm	115	95	148	388	139	50	variable	500	500	17.0	16.7
VXCm 10/35-N	VXC 10/35-N												17.8	16.7
VXCm 15/35-N	VXC 15/35-N						403						19.4	18.4
VXCm 8/45 -N	VXC 8/45 -N	2"	Ø 50 mm			155	413	164	60				17.5	17.2
VXCm 10/45-N	VXC 10/45-N												18.3	17.2
VXCm 15/45-N	VXC 15/45-N						428						19.9	18.9

ABSORPTION

MODEL	VOLTAGE		
Single-phase	230 V	240 V	110 V
VXCm 8/35 -N	3.5 A	3.4 A	7.0 A
VXCm 10/35-N	4.8 A	4.6 A	9.6 A
VXCm 15/35-N	7.4 A	7.1 A	–
VXCm 8/45 -N	3.7 A	3.5 A	7.4 A
VXCm 10/45-N	5.0 A	4.8 A	10.0 A
VXCm 15/45-N	7.1 A	6.8 A	–

MODEL	VOLTAGE			
Three-phase	230 V	400 V	240 V	415 V
VXC 8/35 -N	3.0 A	1.7 A	2.9 A	1.65 A
VXC 10/35-N	3.5 A	2.0 A	3.4 A	1.95 A
VXC 15/35-N	5.2 A	3.0 A	5.0 A	2.9 A
VXC 8/45 -N	3.2 A	1.8 A	3.1 A	1.75 A
VXC 10/45-N	3.5 A	2.0 A	3.4 A	1.95 A
VXC 15/45-N	5.2 A	3.0 A	5.0 A	2.9 A

PALLETIZATION

MODEL		GROUPAGE	CONTAINER
Single-phase	Three-phase	n. pumps	n. pumps
VXCm 8/35 -N	VXC 8/35 -N	60	80
VXCm 10/35-N	VXC 10/35-N	60	80
VXCm 15/35-N	VXC 15/35-N	60	80
VXCm 8/45 -N	VXC 8/45 -N	54	72
VXCm 10/45-N	VXC 10/45-N	54	72
VXCm 15/45-N	VXC 15/45-N	54	72