

## Submersible pumps

-  Sewage water
-  Domestic use
-  Civil use



### PERFORMANCE RANGE

- Flow rate up to **650 l/min** (39 m<sup>3</sup>/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
  - up to **Ø 50 mm** for VXC /45
- Minimum immersion depth for continuous service:
  - **280 mm** for VXC /35
  - **300 mm** for VXC /45

### 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



### CERTIFICATIONS

Company with management system certified DNV  
ISO 9001: QUALITY

### 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, sewage water and mixed with mud.**

### PATENTS - TRADE MARKS - MODELS

- Patent n. EP2313658
- Patent n. IT0001428923
- Registered EU Design n. 002501486-0003

### OPTIONS AVAILABLE ON REQUEST

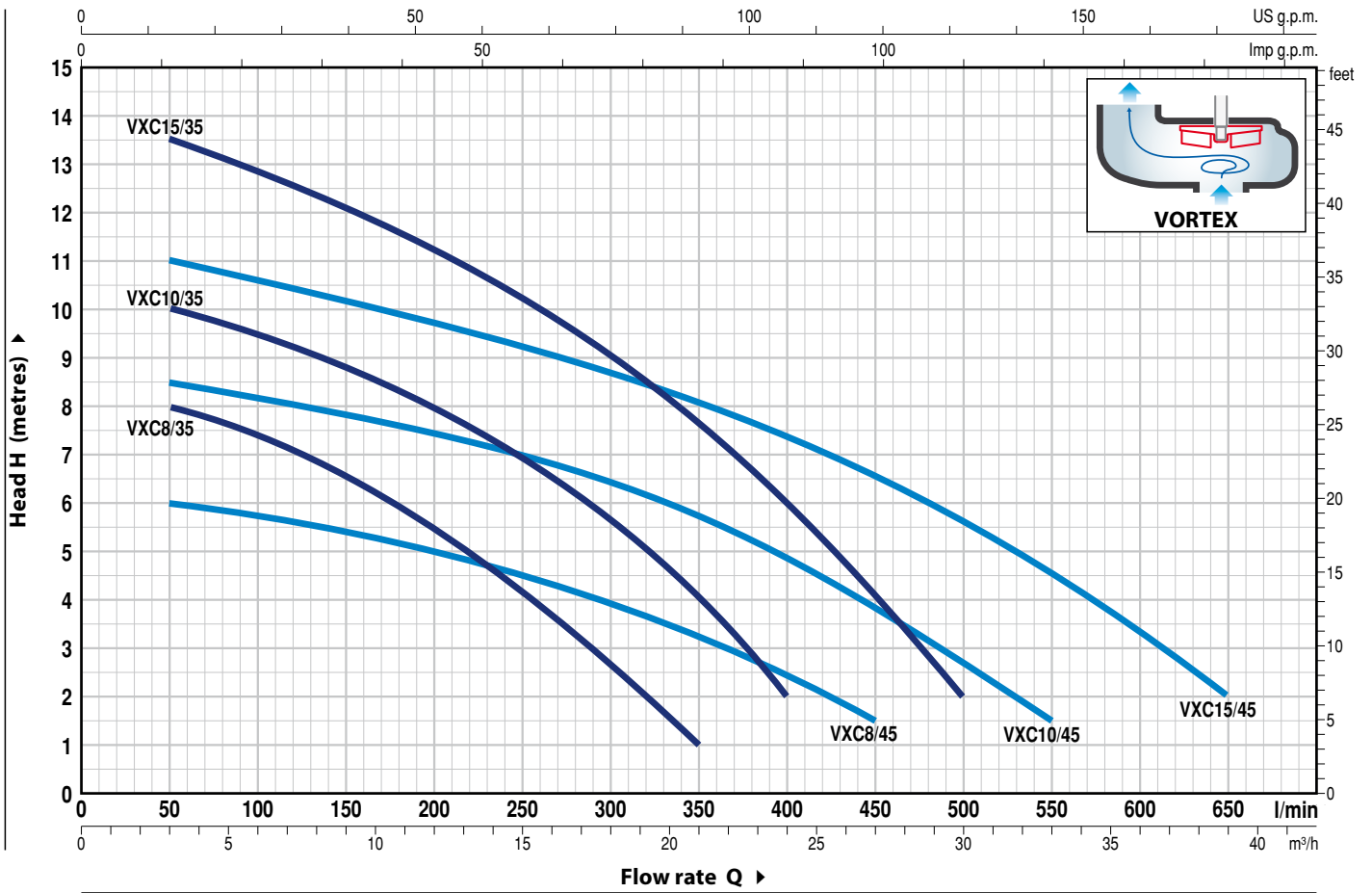
- Single-phase pumps without float switch
- Other voltages

### GUARANTEE

2 years subject to terms and conditions

### CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 min<sup>-1</sup>



MODEL		POWER (P <sub>2</sub> )		Q	H metres															
Single-phase	Three-phase	kW	HP		m <sup>3</sup> /h	0	3	6	12	18	21	24	27	30	33	36	39			
				l/min	0	50	100	200	300	350	400	450	500	550	600	650				
VXCm 8/35	VXC 8/35	0.55	0.75		9	8	7.5	5.5	2.7	1										
VXCm 10/35	VXC 10/35	0.75	1		11	10	9.5	8	5.7	4	2									
VXCm 15/35	VXC 15/35	1.1	1.5		14	13.5	12.8	11.2	9	7.7	6	4	2							
VXCm 8/45	VXC 8/45	0.55	0.75		6.5	6	5.8	5	4	3.3	2.5	1.5								
VXCm 10/45	VXC 10/45	0.75	1		9	8.5	8.2	7.5	6.5	5.8	5	3.8	2.5	1.5						
VXCm 15/45	VXC 15/45	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	<b>PUMP BODY</b>	Cast iron with an Epoxy Electro Coating treatment, with threaded port in compliance with ISO 228/1
2	<b>BASE</b>	Stainless steel AISI 304
3	<b>IMPELLER</b>	Stainless steel AISI 304 VORTEX type
4	<b>MOTOR CASING</b>	Cast iron with an Epoxy Electro Coating treatment
5	<b>MOTOR CASING PLATE</b>	Stainless steel AISI 304
6	<b>MOTOR SHAFT</b>	Stainless steel AISI 431

### 7 SHAFT WITH DOUBLE MECHANICAL SEAL SEPARATED BY AN OIL CHAMBER

Seal Model	Shaft Diameter	Position	Materials		
			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	(220 V)	(110 V or 127 V)
VXCm 8/35	20 µF - 450 VL	30 µF - 250 VL
VXCm 8/45		
VXCm 10/35		
VXCm 10/45		
VXCm 15/35	25 µF - 450 VL	-
VXCm 15/45		

### 10 ELECTRIC MOTOR

**VXCm:** single-phase 220 V - 60 Hz  
with thermal overload protector incorporated into the winding

**VXC:** three-phase 380 V - 60 Hz

- Insulation: class F
- Protection: IP X8

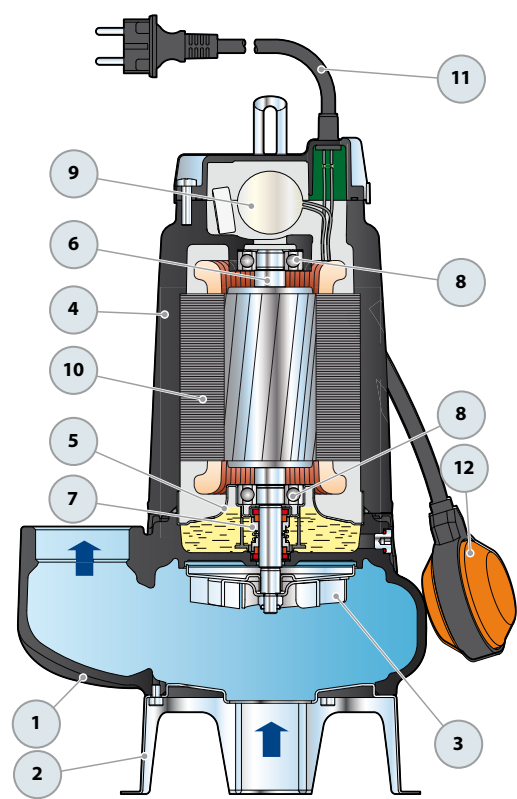
**11 POWER CABLE**

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

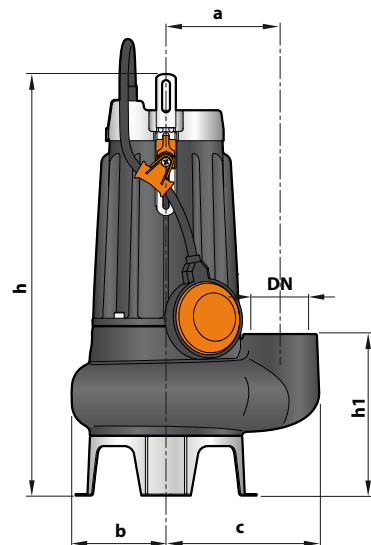
**Standard length 10 metres**

### 12 FLOAT SWITCH

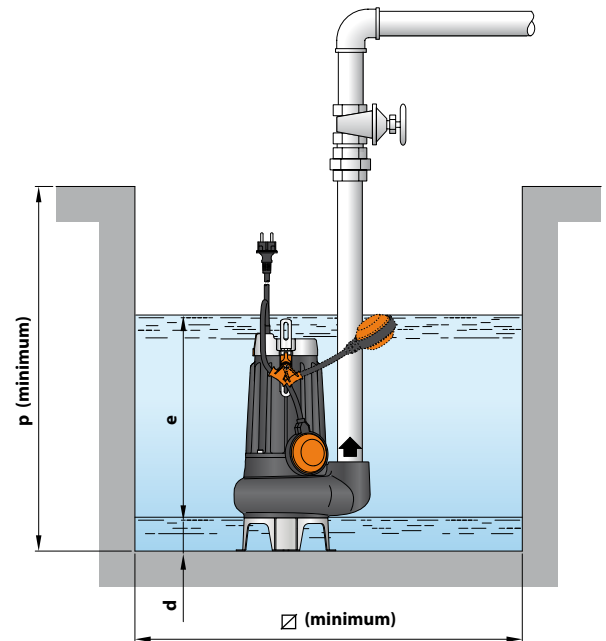
(only for single-phase versions)



## DIMENSIONS AND WEIGHT



### Standard installation



MODEL		PORT DN	Passage of solids	DIMENSIONS mm									kg	
Single-phase	Three-phase			a	b	c	h	h1	d	e	p	□	1~	3~
VXCm 8/35	VXC 8/35	1½"	Ø 40 mm	115	95	148	389	139	50	variable	500	500	16.8	16.7
VXCm 10/35	VXC 10/35						403						17.6	16.7
VXCm 15/35	VXC 15/35					413	19.3	18.2						
VXCm 8/45	VXC 8/45	2"	Ø 50 mm	115	95	155	413	164	60	variable	500	500	17.4	17.2
VXCm 10/45	VXC 10/45						428						18.3	17.2
VXCm 15/45	VXC 15/45					428	19.8	18.8						

## ABSORPTION

MODEL	VOLTAGE		
	220 V	110 V	127 V
<b>Single-phase</b>	220 V	110 V	127 V
VXCm 8/35	3.8 A	7.6 A	6.6 A
VXCm 10/35	5.6 A	11.2 A	9.7 A
VXCm 15/35	8.2 A	16.4 A	14.2 A
VXCm 8/45	3.8 A	7.6 A	7.0 A
VXCm 10/45	5.6 A	12.0 A	10.0 A
VXCm 15/45	7.7 A	15.4 A	13.3 A

MODEL	VOLTAGE		
	220 V	380 V	440 V
<b>Three-phase</b>	220 V	380 V	440 V
VXC 8/35	3.2 A	1.8 A	1.6 A
VXC 10/35	4.1 A	2.4 A	2.0 A
VXC 15/35	6.3 A	3.6 A	3.1 A
VXC 8/45	3.2 A	1.8 A	1.6 A
VXC 10/45	4.0 A	2.3 A	2.0 A
VXC 15/45	6.3 A	3.6 A	3.1 A

## PALLETIZATION

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