

-  Sewage water
-  Domestic use
-  Civil use
-  Industrial use



### PERFORMANCE RANGE

- Flow rate up to **15,850 GPH** (72 m<sup>3</sup>/h)
- Head up to **27 feet** (38psi)

### APPLICATION LIMITS

- **33 feet** maximum immersion depth (with a sufficiently long power cable)
- Maximum liquid temperature **104 °F**
- Passage of solids:
  - up to **Ø 2.5"**
- Minimum immersion depth for continuous service:
  - **1 2/5"**

### CONSTRUCTION AND SAFETY STANDARDS

- **32 feet** long power cable
- External float switch and control box 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  
ISO 14001: ENVIRONMENT

### INSTALLATION AND USE

The **VXC** series of pumps, manufactured from heavy gauge robust cast iron, resistant to abrasion and long-lasting, are fitted with a **VORTEX** impeller and are therefore suitable for draining **dirty, sewage and reflux water, and water mixed with putrid mud**. They are suitable for installation in sewers, tunnels, excavations, canals, underground car parks, etc.

### PATENTS - TRADE MARKS - MODELS

- Registered EU Design n. 342159-0017

### OPTIONS AVAILABLE ON REQUEST

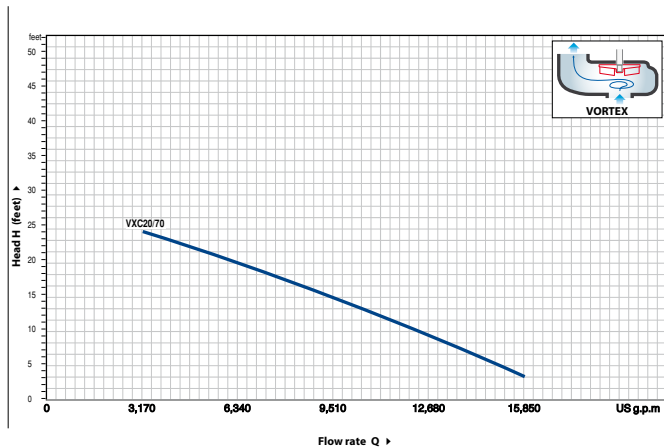
- QES control box for three-phase pumps
- Single-phase pumps without float switch
- Other voltages

### GUARANTEE

2 years subject to terms and conditions

## CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm



MODEL Single-phase	POWER (P <sub>2</sub> )		Q GPH														
	kW	HP		0	1,585	3,170	4,755	5,547	6,340	7,925	9,510	11,095	12,680	13,472	14,265	15,850	
VXCm 20/70	1.5	2	H feet	27.5	-	24	22	20	19.5	17	15	11.5	9	8	6.5	3.25	

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 threaded port in compliance with ISO 228/1
2	<b>BASE</b>	Stainless steel AISI 304
3	<b>IMPELLER</b>	VORTEX type in cast iron with an Epoxy Electro Coating treatment
4	<b>MOTOR CASING</b>	Cast iron
5	<b>MOTOR CASING PLATE</b>	Cast iron
6	<b>MOTOR SHAFT</b>	Stainless steel AISI 431

### 7 TWO MECHANICAL SEALS SEPARATED BY AN OIL CHAMBER

Seal Model	Shaft Diameter	Position	Materials		
			Stationary ring	Rotational ring	Elastomer
STA-20	Ø 20 mm	Motor side	Ceramic	Graphite	NBR
STA-19	Ø 19 mm	Pump side	Silicon carbide	Silicon carbide	NBR

### 8 BEARINGS 6304 ZZ - C3 / 6304 ZZ - C3

### 9 CAPACITOR

Pump Single-phase	Capacitance (220 V)
VXCm 20/70	50 µF - 450 VL

### 10 ELECTRIC MOTOR

**VXCm 20:** single-phase 220 V - 60 Hz with thermal overload protector incorporated into the winding

- Insulation: class F
- Protection: IP X8

### 11 POWER CABLE

32 feet long

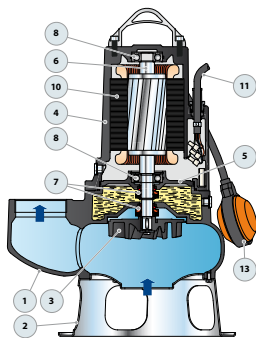
### 12 CONTROL BOX FOR VXCm 20

(only for single-phase versions)

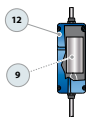
Complete with capacitor and manual reset motor protector

### 13 FLOAT SWITCH

(only for single-phase versions)

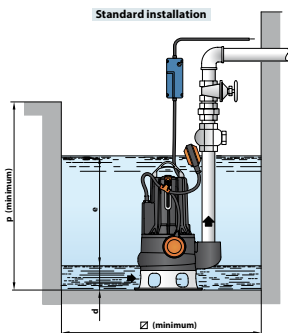
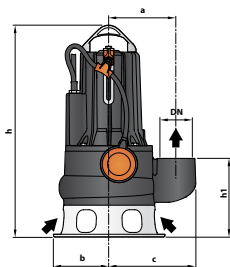


#### Standard features



Control box for VXCm 15-20  
(only for single-phase versions)

## DIMENSIONS AND WEIGHT



MODEL	PORT DN	Passage of solids	DIMENSIONS mm								lbs	
			a	b	c	h	h1	d	e	p		Ø
Single-phase	3"	Ø 2.5"	180	150	237	563	233	85	variable	800	800	88

## ABSORPTION

MODEL	VOLTAGE
Single-phase	220 V
VXCM 20/70	12.6 A

## PALLETIZATION

MODEL	GROUPAGE	CONTAINER
Single-phase	n. pumps	n. pumps
VXCM 20/70	12	12