VXC-F

Submersible pumps

Filthy water
Domestic use
Civil use
Industrial use

PERFORMANCE RANGE

- Flow rate up to **1200 l/min** (72 m^3/h)
- Head up to **16 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 50 mm** for VXC /50-F
  – up to **Ø 70 mm** for VXC /70-F
- Minimum immersion depth for continuous service:
  – **390 mm** for VXC /50-F
  – **440 mm** for VXC /70-F

CONSTRUCTION AND SAFETY STANDARDS

- **10 m** 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

CE

CERTIFICATIONS

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

INSTALLATION AND USE

The **VXC-F** series of pumps, manufactured from heavy gauge robust cast iron, resistant to abrasion and long lasting, are fitted with a VORTEX impeller and therefore suitable for drainage of **refluent water, water mixed with mud, liquids containing air or gas, and putrid muds**. They are recommended for fixed installations, when placed in suitable wells, in sewers, tunnels, wells, underground car parks, etc.

OPTIONS AVAILABLE ON REQUEST

- Connection support KIT for PVXC
- **QES** control box for three-phase pumps
- Single-phase pumps without float switch
- Other voltages

GUARANTEE

2 years subject to terms and conditions

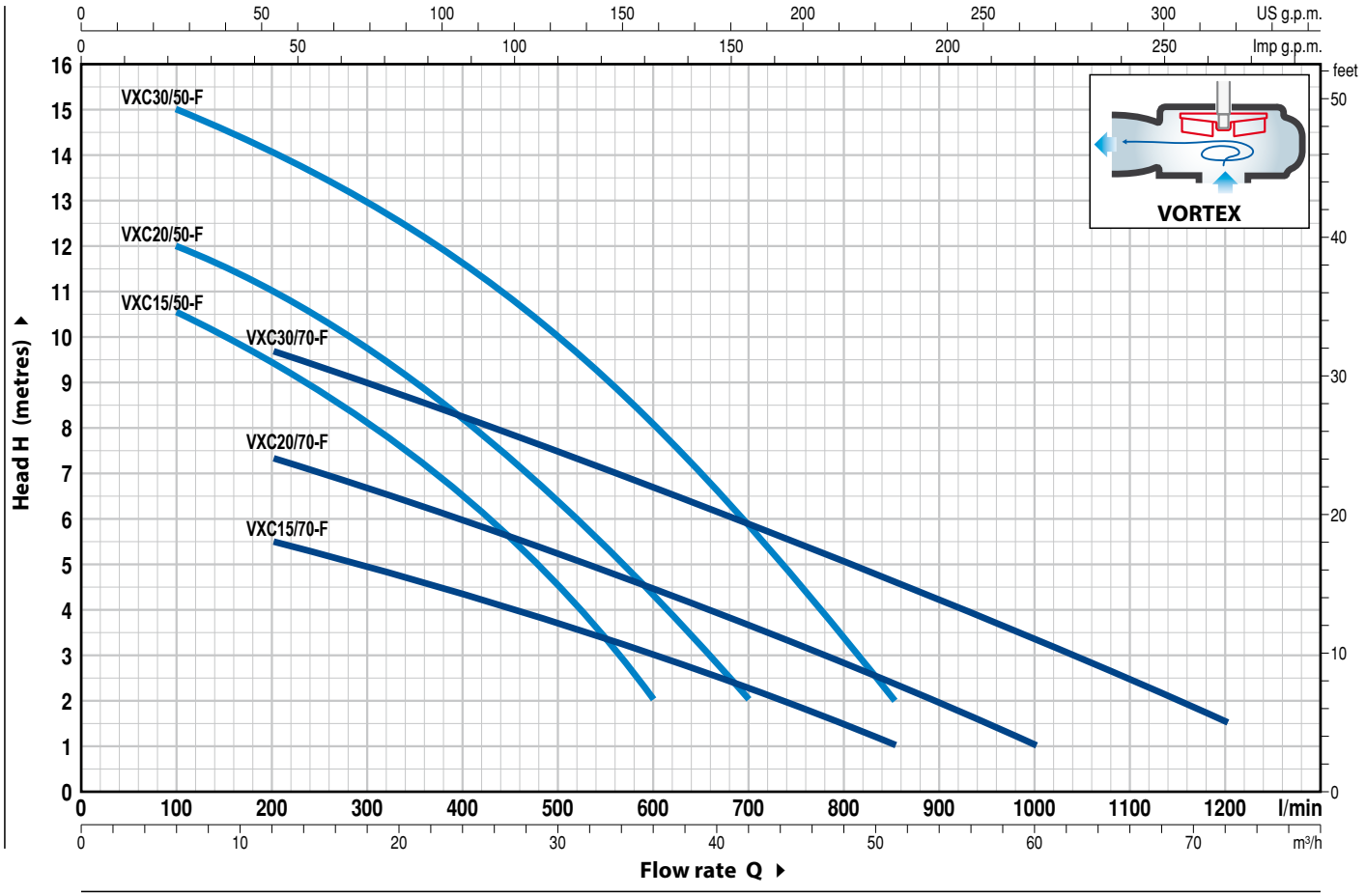
➠ **For the following versions the incorporated thermal overload protector must be connected to the control box for the guarantee to be considered valid:**

single-phase
– VXCm 30/50-F
– VXCm 30/70-F

three-phase
– VXC 15-20-30/50-F
– VXC 15-20-30/70-F

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm



MODEL		POWER (P2)		Q m³/h	0	6	12	18	21	24	27	30	36	42	48	51	54	60	66	72
Single-phase	**Three-phase**	**kW**	**HP**	l/min	**0**	**100**	**200**	**300**	**350**	**400**	**450**	**500**	**600**	**700**	**800**	**850**	**900**	**1000**	**1100**	**1200**
VXCm 15/50-F	**VXC 15/50-F**	1.1	1.5	**H** metres	11.5	10.5	9.5	8.2	7.2	6.5	5.6	4.5	2							
VXCm 20/50-F	**VXC 20/50-F**	1.5	2		13	12	11	9.5	9	8	7.2	6.5	4.5	2						
VXCm 30/50-F	**VXC 30/50-F**	2.2	3		16	15	14	13	12.3	11.5	10.8	10	8	5.9	3.3	2				
VXCm 15/70-F	**VXC 15/70-F**	1.1	1.5		6.5	–	5.5	5	4.7	4.4	4	3.7	3	2.2	1.5	1				
VXCm 20/70-F	**VXC 20/70-F**	1.5	2		8.5	–	7.4	6.7	6.3	6	5.6	5.2	4.5	3.6	2.8	2.4	2	1		
VXCm 30/70-F	**VXC 30/70-F**	2.2	3		11	–	9.7	9	8.6	8.2	7.8	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 characteristic curves in compliance with EN ISO 9906 Grade 3B.

ABSORPTION

MODEL	VOLTAGE
Single-phase	220 V
VXCm 15/50-F	**10.0** A
VXCm 20/50-F	**13.0** A
VXCm 30/50-F	**18.0** A
VXCm 15/70-F	**9.2** A
VXCm 20/70-F	**12.6** A
VXCm 30/70-F	**18.0** A

MODEL	VOLTAGE		
Three-phase	220 V	380 V	440 V
VXC 15/50-F	**7.0** A	**4.0** A	**3.1** A
VXC 20/50-F	**9.3** A	**5.4** A	**3.8** A
VXC 30/50-F	**12.0** A	**7.2** A	**5.0** A
VXC 15/70-F	**7.5** A	**4.5** A	**3.7** A
VXC 20/70-F	**9.4** A	**5.5** A	**4.7** A
VXC 30/70-F	**11.5** A	**6.6** A	**5.5** A

POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS
1	**PUMP BODY**	Cast iron complete with flanged ports
2	**SUCTION PLATE**	Cast iron
3	**IMPELLER**	VORTEX type in cast iron with an Epoxy Electro Coating treatment
4	**MOTOR CASING**	Cast iron
5	**MOTOR CASING PLATE**	Cast iron
6	**MOTOR SHAFT**	Stainless steel AISI 431

7 TWO MECHANICAL SEALS SEPARATED BY AN OIL CHAMBER

Seal	*Shaft*	*Position*	*Materials*		
Model	*Diameter*		*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	*Capacitance*
Single-phase	*(220 V)*
VXCm 15/50-70-F	**31.5** µF 450 VL
VXCm 20/50-70-F	**50** µF 450 VL
VXCm 30/50-70-F	**60** µF 450 VL

10 ELECTRIC MOTOR

VXCm 15-20-F: single-phase 220 V - 60 Hz
with thermal overload protector incorporated into the winding

➠ **VXCm 30-F**: single-phase 220 V - 60 Hz
with thermal overload protector incorporated into the winding to be connected to the control box

➠ **VXC-F**: three-phase 380 V - 60 Hz
with thermal overload protector incorporated into the winding to be connected to the control box (supplied on demand)

– Insulation: class F
– Protection: IP X8

11 POWER CABLE

10 metres long "H07 RN-F" cable

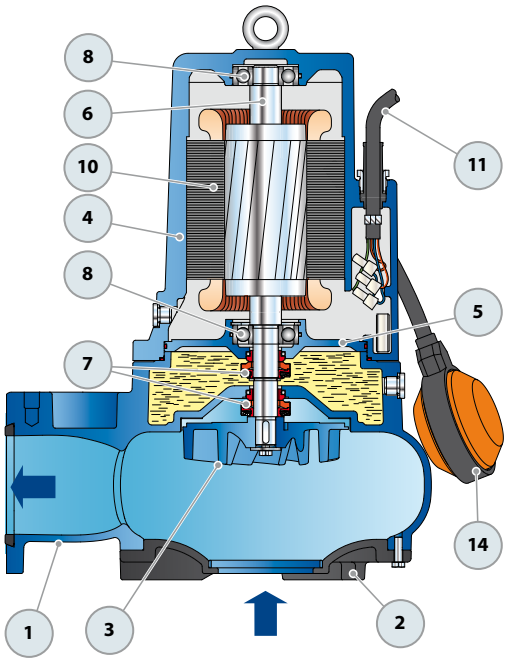
12 CONTROL BOX per VXCm 15-20-F
(only for single-phase versions)

Complete with capacitor and manual reset motor protector

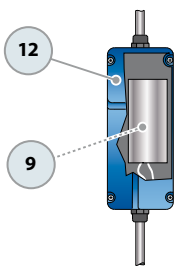
13 CONTROL BOX per VXCm 30-F
(only for single-phase versions)

QES 300 MONO series

14 FLOAT SWITCH
(only for single-phase versions)

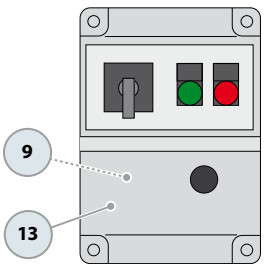


Standard features



Control box
for VXCm 15-20-F (HP 1.5-2.0)
(only for single-phase versions)

Standard features



Control box
for VXC 30-F (HP 3.0)
(only for single-phase versions)