

# VXC

## VORTEX submersible pumps for sewage water

**VORTEX** submersible pumps made of cast iron, particularly robust and reliable, ideal for fixed installations. The proven **VORTEX** system allows the clearing of dirty water containing suspended solids.



### RANGE OF PERFORMANCE

Flow rate up to 500 l/min (30 m<sup>3</sup>/h)  
Head up to 15 m

### LIMITS OF USE

Depth up to 10 m  
Liquid temperature up to + 40°C  
Passage of solid bodies max Ø 35 mm for VXC/35  
Passage of solid bodies max Ø 45 mm for VXC/45  
For continuous duty: minimum immersion 290 mm from pump base

### CONSTRUCTION AND SAFETY STANDARDS

EN 60034-1  
IEC 34-1  
CEI 2-3



### INSTALLATION AND USE

THE PUMPS IN THE **VXC SERIES** ARE MADE OF EXCEPTIONALLY ROBUST HEAVY-GAUGE CAST IRON, RESISTANT TO ABRASION AND ARE EQUIPPED WITH A **VORTEX TYPE IMPELLER**. THEY ARE RECOMMENDED FOR DRAINING WASTE WATER CONTAINING SUSPENDED SOLID BODIES, SEWAGE AND WATER MIXED WITH MUD.

**GUARANTEE 2 YEARS** subject to our general terms of sale.

### CONSTRUCTION CHARACTERISTICS

- **PUMP BODY:** cast iron, with threaded port ISO 228/1.
- **MOTOR CASING AND BASE:** cast iron.
- **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.  
VXCm: single-phase 220÷240 V - 50 Hz with thermal overload protector.  
VXC: three-phase 380÷415 V - 50 Hz.
- **INSULATION:** class F. ● **PROTECTION:** IP 68.

### STANDARD FEATURES:

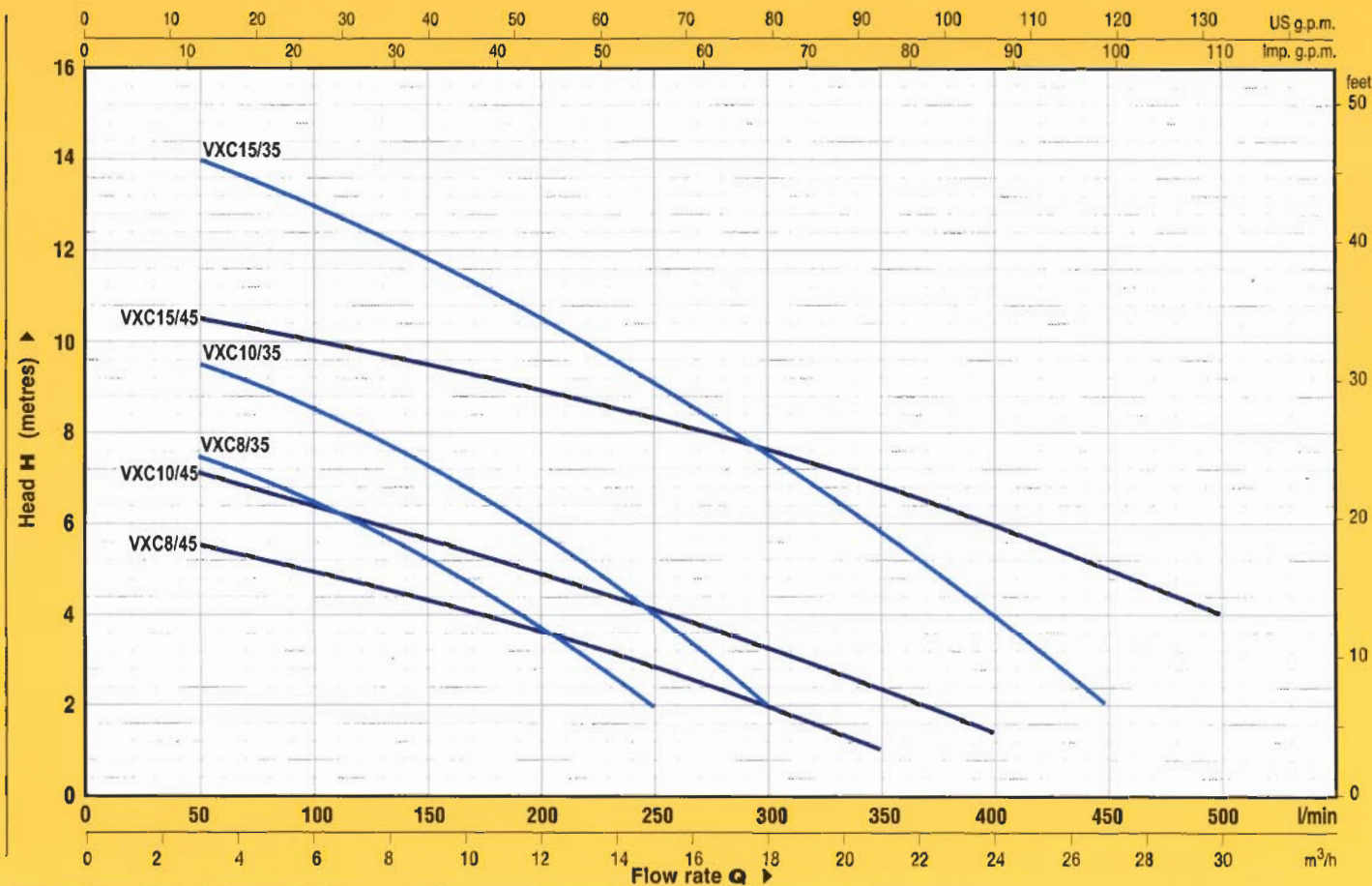
**VXCm** (single-phase) Float switch.  
Neoprene power cable "H07 RN-F"  
length **10 metres** with Schuko plug.  
Control box with capacitor (Protection IP 64).

**VXC** (three-phase) Neoprene power cable "H07 RN-F"  
length **10 metres**.

### OPTIONS ON REQUEST

- ⇒ control box for three-phase pumps 1.1 kW
- ⇒ single-phase pumps without float switch
- ⇒ other voltages or frequency 60 Hz

**CURVES AND PERFORMANCE DATA AT n= 2900 1/min**



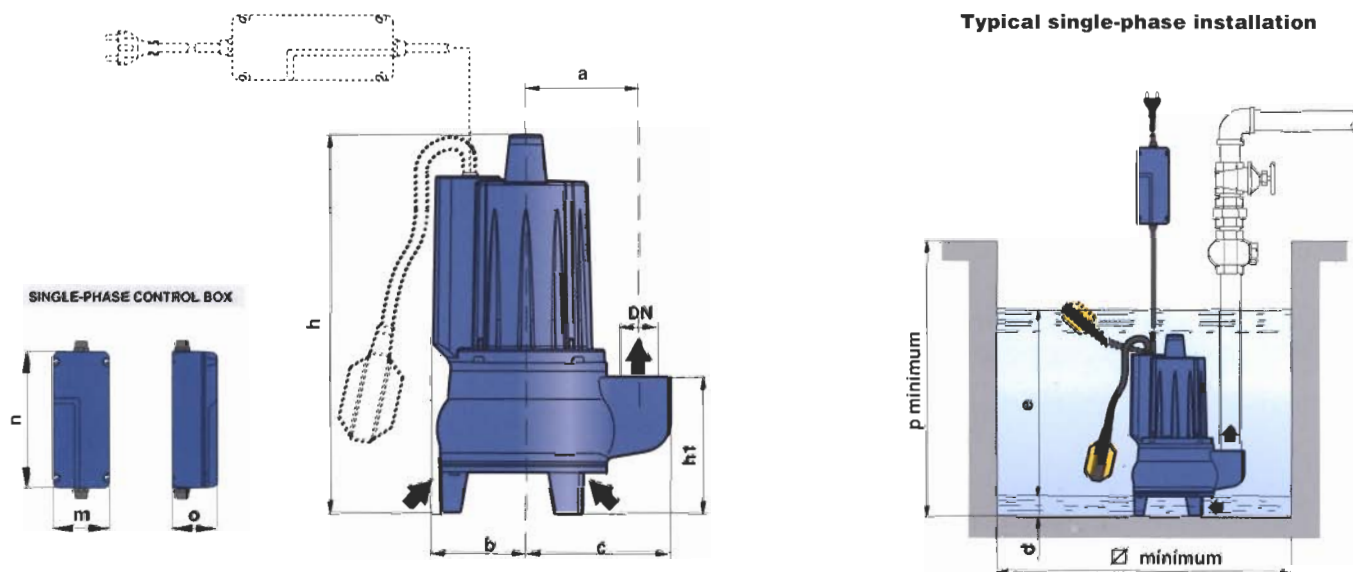
TYPE		POWER		Q	H metres														
Single-phase	Three-phase	kW	HP		m³/h	0	3	6	9	12	15	18	21	24	27	30			
				l/min	0	50	100	150	200	250	300	350	400	450	500				
VXCm 8/35	—	0.60	0.85	H metres	8.4	7.5	6.5	5.2	3.7	2									
VXCm 10/35	VXC 10/35	0.75	1		10	9.5	8.5	7.2	5.8	4	2								
VXCm 15/35	VXC 15/35	1.1	1.5		15	14	13	11.8	10.5	9	7.5	6	4	2					
VXCm 8/45	—	0.60	0.85		6	5.5	5	4.4	3.6	2.8	2	1							
VXCm 10/45	VXC 10/45	0.75	1		7.5	7	6.5	5.8	5	4	3.2	2.4	1.5						
VXCm 15/45	VXC 15/45	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 DN	passage of solid bodies	DIMENSIONS mm											kg	
Single-phase	Three-phase			a	b	c	h	h1	m	n	o	d	e	p	Ø	1~
VXCm 8/35	—	1 1/2"	Ø 35 mm	105	90	137	350	123	81	200	66	adjustable	500	500	17.0	—
VXCm 10/35	VXC 10/35			92	143	370	133	18.7							17.1	
VXCm 15/35	VXC 15/35			110	90	150	375	148							20.9	19.8
VXCm 8/45	—	2"	Ø 45 mm	110	90	150	375	148	81	200	66	adjustable	500	500	18.0	—
VXCm 10/45	VXC 10/45			120	97	163	395	153							19.7	18.0
VXCm 15/45	VXC 15/45			120	97	163	395	153							21.9	20.8