



Sewage



Domestic use



Civil use

※ **High-quality materials and robust construction ensure superior performance and reliability**



#### PERFORMANCE RANGE

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

#### INSTALLATION AND USE

The **VXC** series features **VORTEX**-type impellers, offering robust and reliable performance for demanding applications. Constructed from thick cast iron, these pumps are exceptionally strong and resistant to abrasion, ensuring continuous operation.

They are perfectly suited for draining **dirty water with suspended solids and sewage, wastewater, and sludge mixtures**.

#### INCLUDES

- ※ Power cable length **10 m**
- ※ Float switch (exclusive to single-phase models)

#### APPLICATION LIMITS

- Depth below water level up to **10 m** (with an appropriately sized power cable)
- Liquid temperature up to **+40 °C**
- Suspended solids transfer:
  - up to **Ø 40 mm** for VXC /35
  - up to **Ø 50 mm** for VXC /45
- **Minimum immersion for continuous service 305 mm**

#### AVAILABLE UPON REQUEST

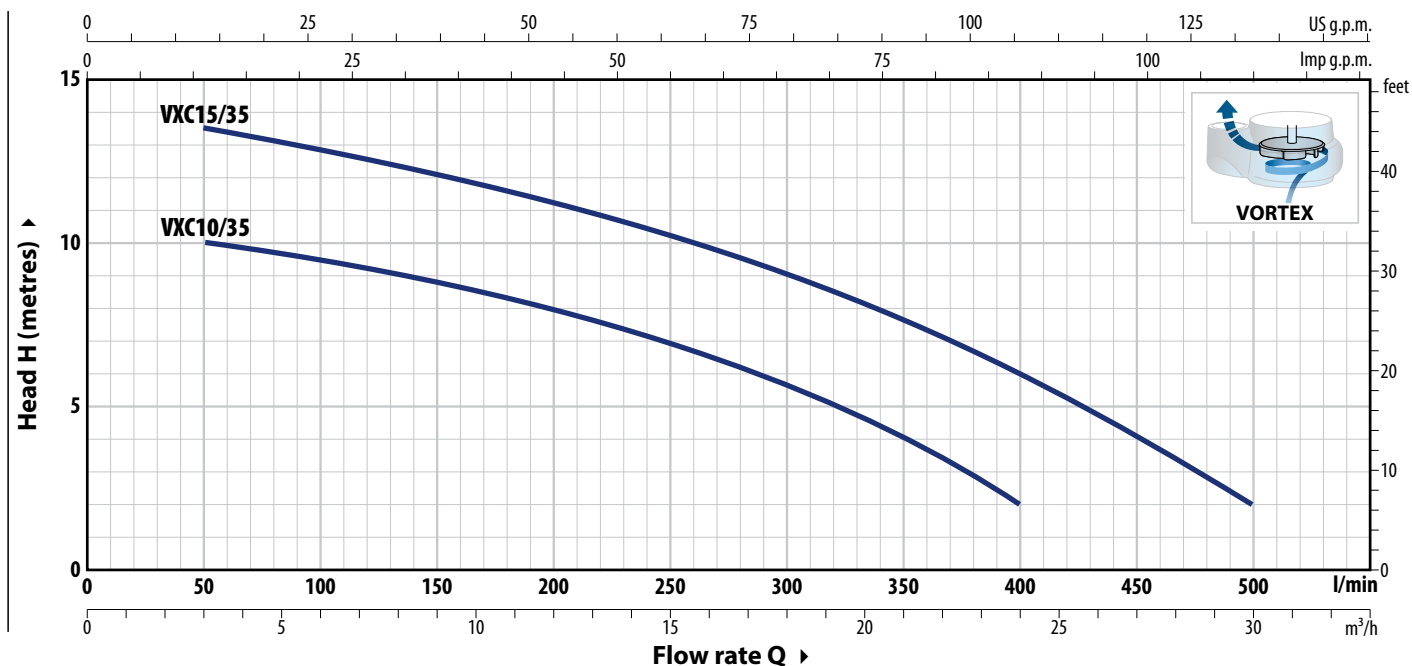
- ※ Different voltage requirements 60 Hz frequency

#### PATENTS - TRADE MARKS - MODELS

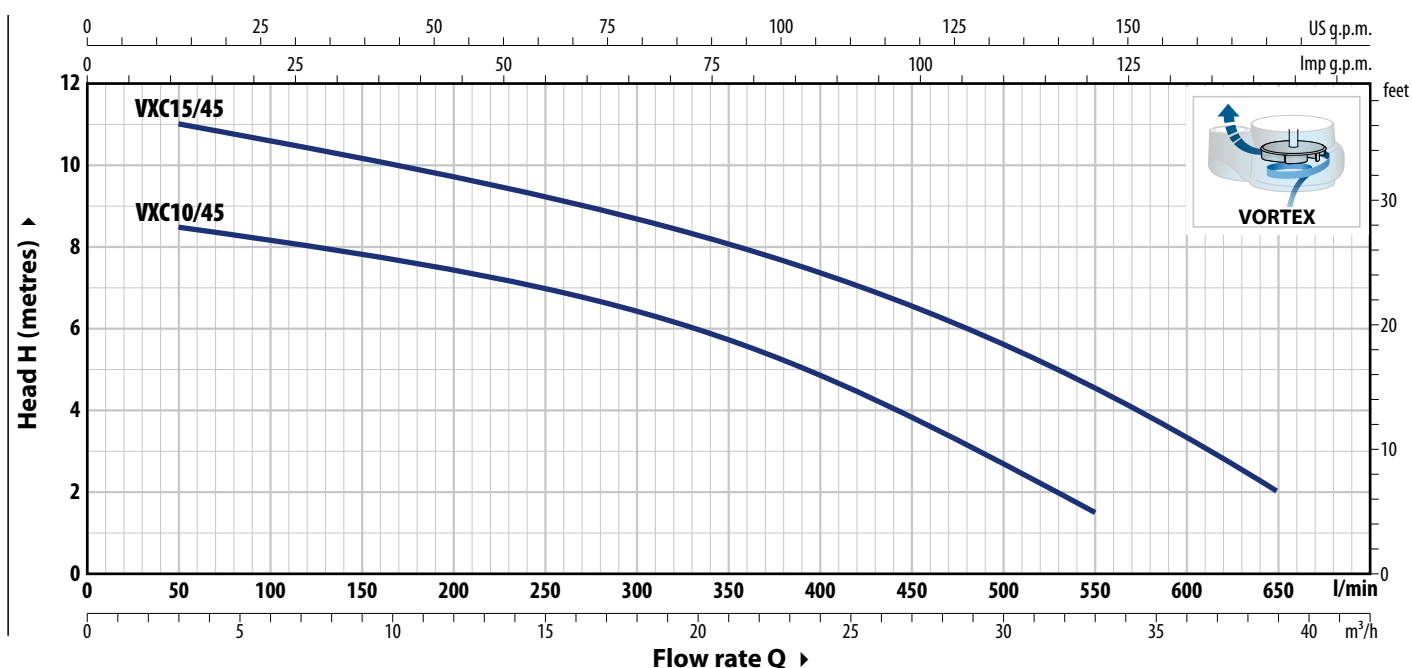
- Patent No. IT0001428923
- Registered Community Model No. 002501486-0003

## CURVES AND PERFORMANCE DATA

**50 Hz**



| TYPE         |             | POWER (P <sub>2</sub> ) |     | Q        |       |    |      |      |      |     |     |     |     |     |
|--------------|-------------|-------------------------|-----|----------|-------|----|------|------|------|-----|-----|-----|-----|-----|
| Single-phase | Three-phase | kW                      | HP  |          | m³/h  | 0  | 3    | 6    | 12   | 18  | 21  | 24  | 27  | 30  |
| VXCm 10/35   | VXC 10/35   | 0.75                    | 1   |          | l/min | 0  | 50   | 100  | 200  | 300 | 350 | 400 | 450 | 500 |
| VXCm 15/35   | VXC 15/35   | 1.1                     | 1.5 | H metres |       | 11 | 10   | 9.5  | 8    | 5.7 | 4   | 2   |     |     |
|              |             |                         |     |          |       | 14 | 13.5 | 12.8 | 11.2 | 9   | 7.7 | 6   | 4   | 2   |



| TYPE         |             | POWER (P <sub>2</sub> ) |     | Q        |       |      |     |      |     |     |     |     |     |     |
|--------------|-------------|-------------------------|-----|----------|-------|------|-----|------|-----|-----|-----|-----|-----|-----|
| Single-phase | Three-phase | kW                      | HP  |          | m³/h  | 0    | 3   | 6    | 12  | 18  | 24  | 27  | 30  | 33  |
| VXCm 10/45   | VXC 10/45   | 0.75                    | 1   |          | l/min | 0    | 50  | 100  | 200 | 300 | 400 | 450 | 500 | 550 |
| VXCm 15/45   | VXC 15/45   | 1.1                     | 1.5 | H metres |       | 9    | 8.5 | 8.2  | 7.5 | 6.5 | 5   | 3.8 | 2.5 | 1.5 |
|              |             |                         |     |          |       | 11.5 | 11  | 10.5 | 9.8 | 8.7 | 7.5 | 6.5 | 5.5 | 4.5 |

Q = Flow rate H = Total manometric head

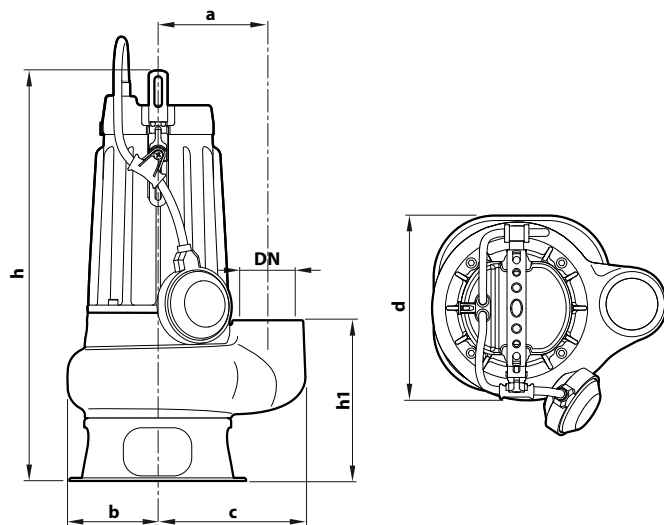
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

## ABSORPTION

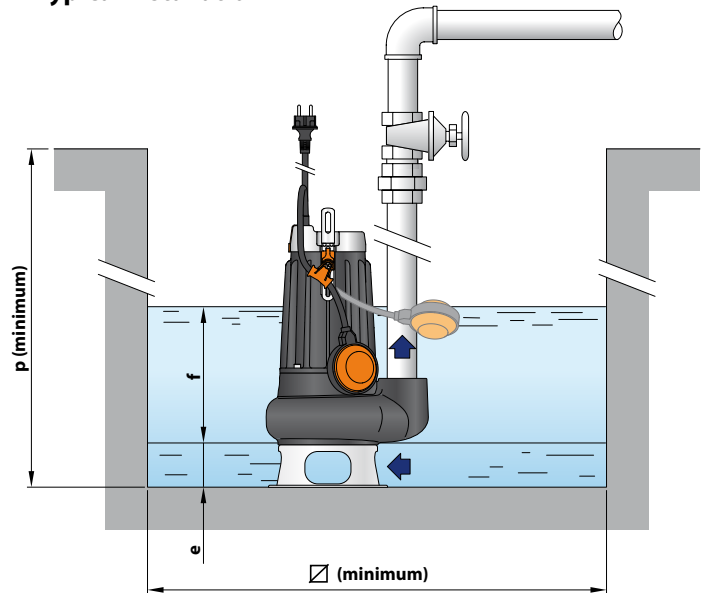
| TYPE                | VOLTAGE      |
|---------------------|--------------|
| <b>Single-phase</b> | <b>230 V</b> |
| <b>VXCm 10/35</b>   | 5.5 A        |
| <b>VXCm 15/35</b>   | 7.4 A        |
| <b>VXCm 10/45</b>   | 5.5 A        |
| <b>VXCm 15/45</b>   | 7.4 A        |

| TYPE               | VOLTAGE      |
|--------------------|--------------|
| <b>Three-phase</b> | <b>400 V</b> |
| <b>VXC 10/35</b>   | 2.2 A        |
| <b>VXC 15/35</b>   | 3.0 A        |
| <b>VXC 10/45</b>   | 2.2 A        |
| <b>VXC 15/45</b>   | 3.0 A        |

## DIMENSIONS AND WEIGHT



## Typical installation



| TYPE         |             | PORT<br>DN | Passage of<br>solid bodies | DIMENSIONS mm |    |     |     |     |     |     |            |     |     | kg   |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------|-------------|------------|----------------------------|---------------|----|-----|-----|-----|-----|-----|------------|-----|-----|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|
| Single-phase | Three-phase |            |                            | a             | b  | c   | d   | h   | h1  | e   | f          | p   | ∅   | 1~   | 3~   |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| VXCm 10/35   | VXC 10/35   | 1½"        | Ø 40 mm                    | 115           | 95 | 148 | 200 | 421 | 158 | 55  | adjustable | 500 | 500 | 19.6 | 18.2 |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| VXCm 15/35   | VXC 15/35   |            |                            |               |    | 155 |     | 434 |     | 169 |            |     |     | 60   |      | 19.7 | 18.3 |  |  |  |  |  |  |  |  |  |  |  |  |
| VXCm 10/45   | VXC 10/45   | 2"         | Ø 50 mm                    |               |    |     |     |     |     |     |            |     |     |      |      | 20.1 | 19.0 |  |  |  |  |  |  |  |  |  |  |  |  |
| VXCm 15/45   | VXC 15/45   |            |                            |               |    |     |     |     |     |     |            |     |     |      |      | 20.2 | 19.1 |  |  |  |  |  |  |  |  |  |  |  |  |

## PALLET CAPACITY

| TYPE               | NO. OF PUMPS |
|--------------------|--------------|
| <b>Three-phase</b> |              |
| <b>VXC 10/35</b>   | 45           |
| <b>VXC 15/35</b>   | 45           |
| <b>VXC 10/45</b>   | 45           |
| <b>VXC 15/45</b>   | 45           |

## MATERIALS AND COMPONENTS

**1 Pump body** Cast iron with cataphoresis treatment for greater corrosion resistance with ISO 228/1 threaded port

**2 Base** Stainless steel **AISI 304**

**3 Impeller** VORTEX type in **AISI 304** stainless steel

**4 Motor holder** Cast iron with cataphoresis treatment

**5 Motor cover** Stainless steel **AISI 304**

**6 Motor shaft** Stainless steel **AISI 431**

### 7 Double mechanical seal with interposed oil chamber

| Seal               | Shaft   | Location   | Materials                           |
|--------------------|---------|------------|-------------------------------------|
| <b>MG1-14D SIC</b> | Ø 14 mm | Motor side | Silicon carbide / Graphite / NBR    |
|                    |         | Pump side  | Silicon carbide/Silicon carbide/NBR |

### 8 Electric motor

**VXCm:** single-phase 230 V - 50 Hz  
with winding integrated thermal motor protection

**VXC:** three-phase 400 V - 50Hz

– Insulation: class F

– Protection rating: IP X8

### 9 Power cord

Type 'H07 RN-F  
(Schuko plug exclusive to single-phase models)

※ Standard length 10 metres

### 10 Float switch

(exclusive to single-phase models)

### 11 Tilting device for the float cable

(exclusive to single-phase models)

Patent No. IT0001428923

