

# VERTY NOVA

## SUBMERSIBLE PUMPS WITH INTERNAL FLOAT



### TECHNICAL DATA

#### Operating range:

from 1 to 10m<sup>3</sup>/h with head up to 9 metres.

#### Liquid temperature range:

from 0 °C to +35 °C for domestic use.

**Pumped liquid:** dirty water without fibres.

#### Pump priming limit:

10-15 mm in manual operation.

**Max. immersion depth:** 7 metres.

### APPLICATIONS

The vertical delivery draining submersible pump is suitable for domestic automatically operated fixed applications, for draining basements and garages that are subject to flooding. Thanks to its compact and easy to handle shape, and the built-in float, it is suitable for particularly small draining wells (minimum 20x20 cm). It may also be used as a portable pump for emergencies such as lifting water from tanks or rivers, emptying swimming pools, fountains, excavations and underpasses. It is also ideal for gardening, and hobby applications in general. This pump can be used with liquids containing solid particles of up to 5 mm in size. The level switch with built-in float allows fixed installation, ensuring automatic operation. With easy access to the float for maintenance purposes, and automatic or manual mode selector. Minimum suction level up to 2/3 mm.

### CONSTRUCTION FEATURES OF THE PUMP

Hydro resistant technopolymer pump body, cover, and suction grid.

Stainless steel motor, roto shaft, and bolts and screws.

Threefold seal with interposed rings with oil pre-chamber.

### CONSTRUCTION FEATURES OF THE MOTOR

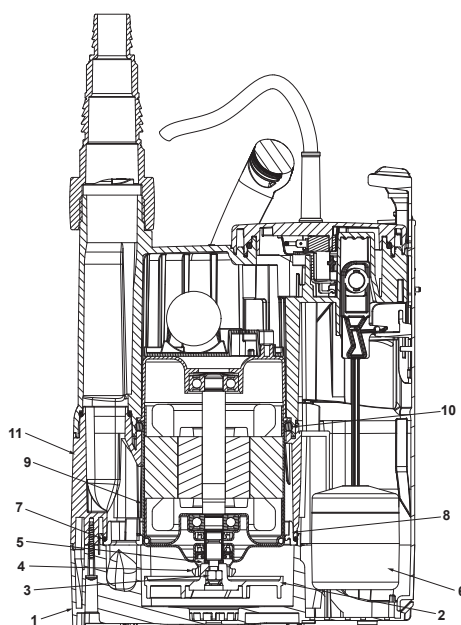
Submersible type continuous duty asynchronous motor.

Stator enclosed in airtight stainless steel casing, with an outer cover that protects the wiring and the capacitor. Rotor running on permanently lubricated ball bearings, oversized to ensure low noise and durability. Built-in thermal-amperometric protection and permanently connected capacitor.

### MATERIALS

| N. | PARTS*      |             | MATERIALS                                           |
|----|-------------|-------------|-----------------------------------------------------|
| 1  | FILTER BASE |             | TECHNOPOLYMER                                       |
| 2  | IMPELLER    |             | TECHNOPOLYMER                                       |
| 3  | NUT         |             | A2 DIN982-UNI7473 STAINLESS STEEL                   |
| 4  | V. RING     |             | NBR                                                 |
| 5  | WASHER      |             | A2 STAINLESS STEEL                                  |
| 6  | FLOAT       |             | TECHNOPOLYMER                                       |
| 7  | OR RING     |             | NBR                                                 |
| 8  | DIAPHRAGM   |             | TECHNOPOLYMER                                       |
| 9  | MOTOR       | CASE        | ALUMINIUM                                           |
|    |             | ROTOR SHAFT | AISI 416 STAINLESS STEEL<br>UNI EN 10088-1 X12CRS13 |
| 10 | OR RING     |             | NBR                                                 |
| 11 | BODY        |             | TECHNOPOLYMER                                       |

\* In contact with the liquid



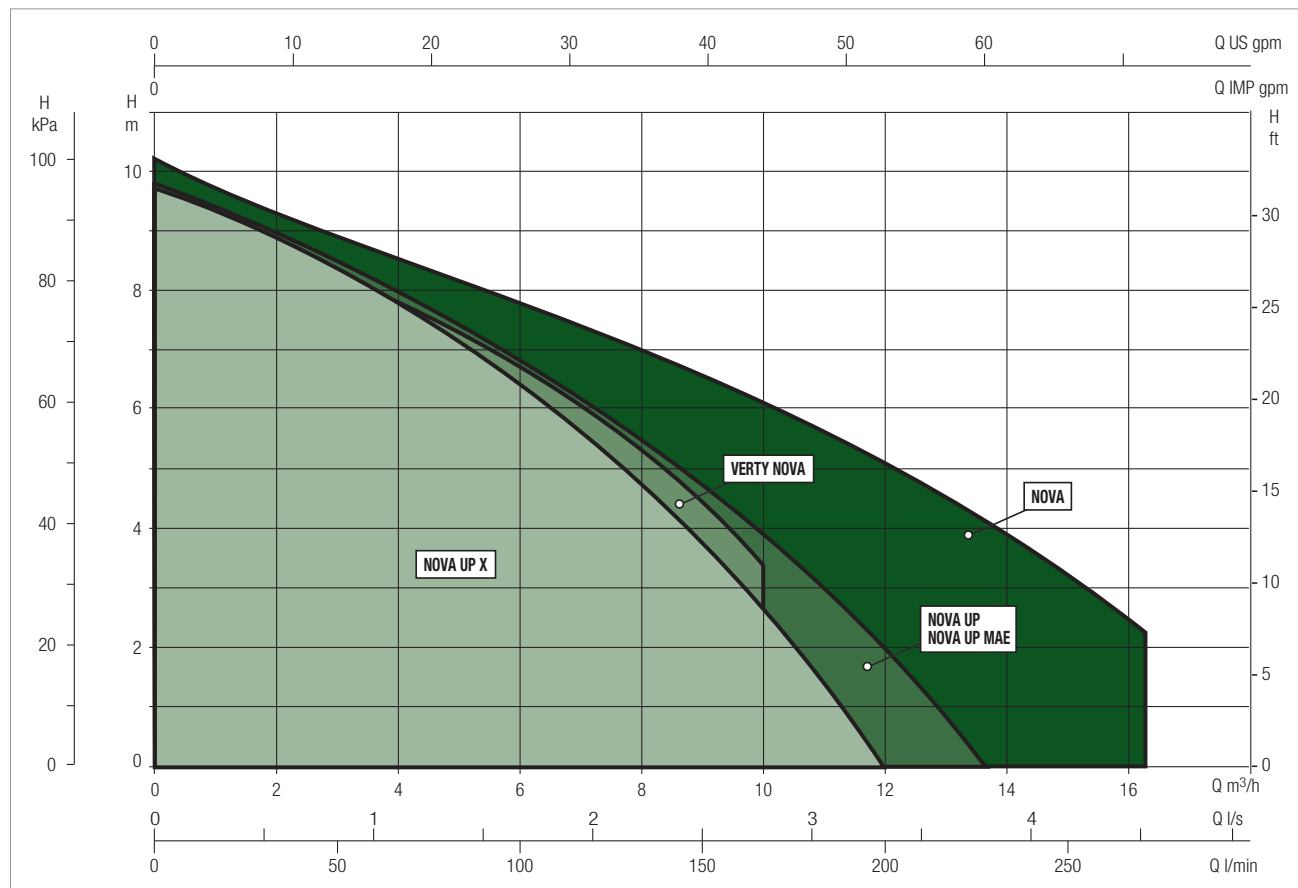
# NOVA RANGE

## SUBMERSIBLE PUMPS

### PERFORMANCE RANGE

The performance curves are based on kinematic viscosity values = 1 mm<sup>2</sup>/s and density equal to 1000 kg/m<sup>3</sup>. Curve tolerance according to ISO 9906.

### GRAPHIC SELECTION TABLE

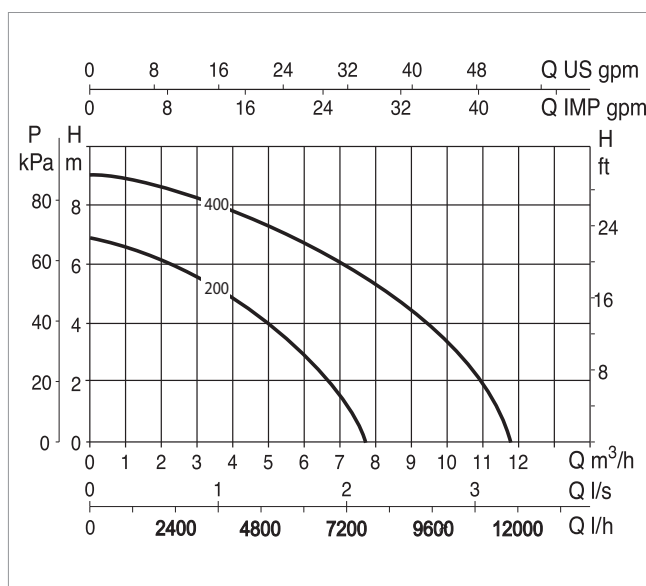
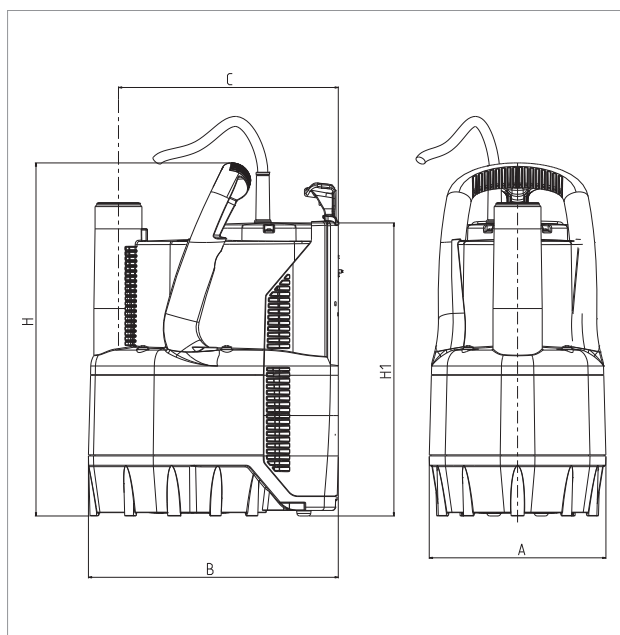


### SELECTION TABLE - VERTY NOVA

| MODEL            | Q= m <sup>3</sup> /h | 0   | 1    | 2    | 3   | 4.5 | 5    | 6   | 7     | 7.5 | 9   | 10    | 12  | 13.5 | 15  |
|------------------|----------------------|-----|------|------|-----|-----|------|-----|-------|-----|-----|-------|-----|------|-----|
|                  | Q=l/min              | 0   | 16.6 | 33.3 | 50  | 75  | 83.3 | 100 | 116.6 | 125 | 150 | 166.6 | 200 | 225  | 250 |
| VERTY NOVA 200 M | H (m)                | 6.9 | 6.5  | 6    | 5.8 | 4.5 | 4    | 3   | 1.8   |     |     |       |     |      |     |
| VERTY NOVA 400 M |                      | 9   | 8.8  | 8.5  | 8.1 | 7.8 | 7    | 6.7 | 1.8   | 5.7 | 4.2 | 3.5   |     |      |     |

## VERTY NOVA - CLEAN WATER DRAINING SUBMERSIBLE PUMPS FOR DOMESTIC USE WITH BUILT-IN FLOAT

Liquid temperature range: from 0 °C to +35 °C for domestic use



The performance curves are based on kinematic viscosity values = 1 mm<sup>2</sup>/s and density equal to 1000 kg/m<sup>3</sup>. Curve tolerance according to ISO 9906.

| MODEL            | ELECTRICAL DATA      |              |            |      |         |
|------------------|----------------------|--------------|------------|------|---------|
|                  | POWER INPUT<br>50 Hz | P1 MAX<br>kW | P2 NOMINAL |      | In<br>A |
|                  |                      |              | kW         | HP   |         |
| VERTY NOVA 200 M | 1 x 230 V ~          | 0.3          | 0.2        | 0.28 | 1.3     |
| VERTY NOVA 400 M | 1 x 230 V ~          | 0.6          | 0.4        | 0.55 | 2.6     |

| MODEL            | A   | B   | C   | ØD | H   | H1  | DNM GAS | PACKING DIMENSIONS |     |     | CABLE  | VOLUME<br>(m <sup>3</sup> ) | WEIGHT<br>kg |
|------------------|-----|-----|-----|----|-----|-----|---------|--------------------|-----|-----|--------|-----------------------------|--------------|
|                  |     |     |     |    |     |     |         | L/A                | L/B | H   |        |                             |              |
| VERTY NOVA 200 M | 158 | 225 | 200 | 33 | 318 | 265 | 1" 1/4  | 222                | 193 | 340 | 10 mt. | 0.014                       | 4.2          |
| VERTY NOVA 400 M | 158 | 225 | 200 | 33 | 354 | 301 | 1" 1/4  | 222                | 193 | 340 | 10 mt. | 0.014                       | 5.1          |