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# DRENAG 1400 - 1800

## SUBMERSIBLE PUMP FOR USE ON BUILDING SITES



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## GENERAL DATA

### Applications

Submersible cast iron pump for use on building sites with thrust ring pipe impeller, designed for draining, lifting or transfer of sandy, muddy or sludgy water, ground water, rain water, fountain water, clean waste water, river or lake water containing solid bodies with maximum dimensions 12 mm.

### Constructional features of the pump

Cast iron pump body and motor casing.

High-resistance cast iron thrust ring pipe impeller.

Cast iron suction cover covered with abrasion-proof rubber.

Stainless steel rotor shaft, handle, filter, filter cover and screws.

Inspectable oil seal chamber.

Silicon carbide mechanical seal.

The supply vent of 2" threaded GAS is radial to facilitate assembly on the lifting devices (DSD 2).

### Constructional features of the motor

Continuous duty submersible induction motor, in a watertight casing.

Rotor mounted on oversized greased sealed-for-life ball bearings.

Thermal protection in the windings, to be connected to the control panel.

In order to operate, the pumps must be equipped with a control and protection system, supplied separately and not connected to the electropumps.

Supplied with 10 metres of neoprene rubber power cable 6x(4x1,5)+(2x0,5).

Motor protection: IP68

Insulation class: F

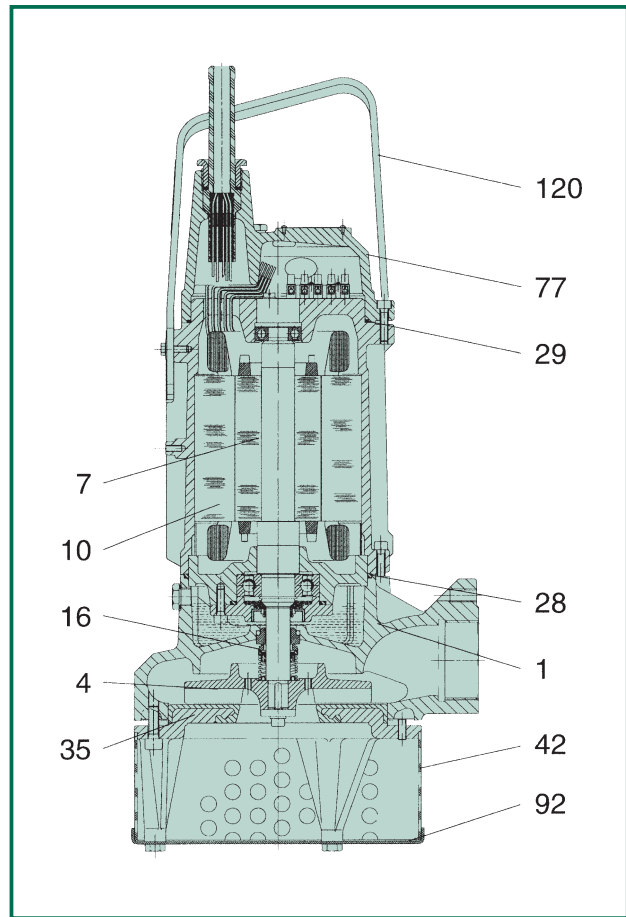
Manufactured according to CEI 2-3 standards.

|                   |              |                 |
|-------------------|--------------|-----------------|
| Standard voltage: | single-phase | 220-240 V/50 Hz |
|                   | three-phase  | 400 V/50 Hz     |

# TECHNICAL DATA

| N.  | PARTS*           | MATERIALS  |
|-----|------------------|--|
| 1   | PUMP BODY        | CAST IRON 200 UNI ISO 185                          |
| 4   | IMPELLER         | CAST IRON 200 UNI ISO 185                          |
| 7   | MOTOR SHAFT      | STAINLESS STEEL AISI 416 X12CrS13 - UNI 6900/71    |
| 10  | MOTOR CASING     | CAST IRON 200 UNI ISO 185                          |
| 16  | MECHANICAL SEAL  | SILICON CARBIDE                                    |
| 28  | OR GASKET        | VITON  |
| 29  | OR GASKET        | VITON  |
| 35  | SUCTION COVER    | CAST IRON 200 UNI ISO 185                          |
| 42  | SUCTION FILTER   | STAINLESS STEEL AISI 304 X5CrNi 1810 - UNI 6900/71 |
| 77  | PROTECTION COVER | CAST IRON 200 UNI ISO 185                          |
| 92  | FILTER COVER     | STAINLESS STEEL AISI 304 X5CrNi 1810 - UNI 6900/71 |
| 120 | HANDLE           | STAINLESS STEEL AISI 304 X5CrNi 1810 - UNI 6900/71 |

\* In contact with the liquid

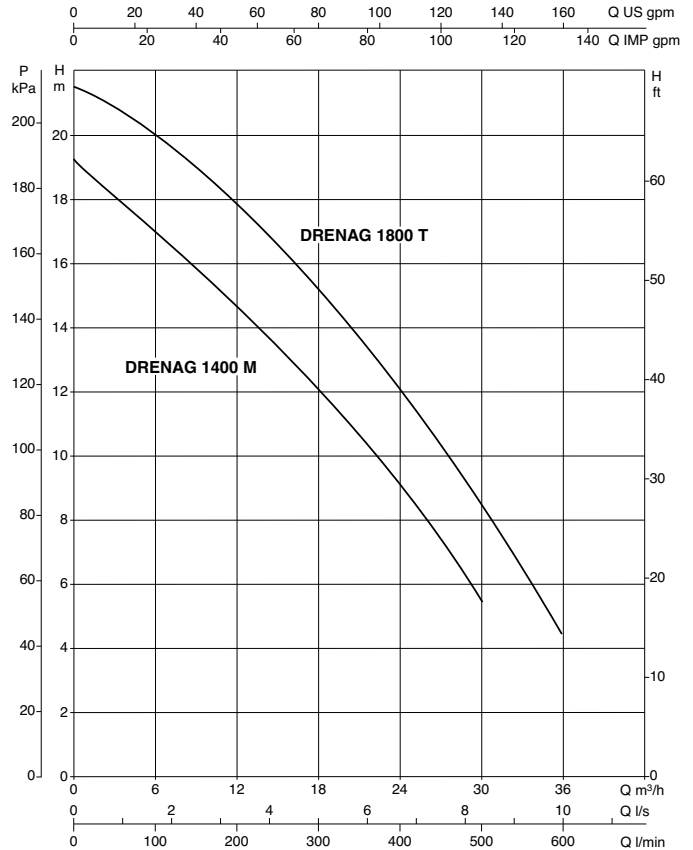
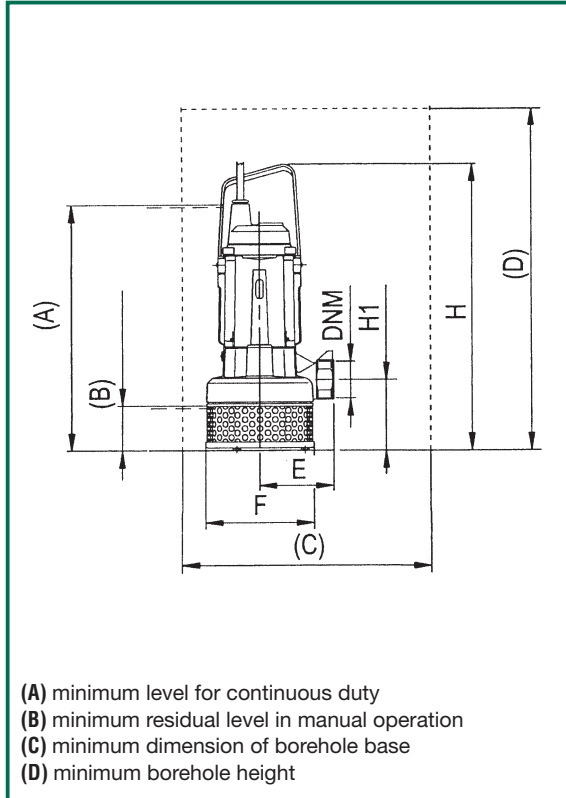


- Operating range: from 6 to 33 m<sup>3</sup>/h with head up to 19,2 metres for the single-phase version and 21,5 metres for the three-phase version.
- Liquid quality requirements: sandy, muddy or sludgy water from building sites, clean waste water, rain water, ground water, fountain, river or lake water, always non aggressive
- Liquid temperature range: from 0°C to +55°C
- Free passage of solids through the suction grid: 12 mm
- Maximum immersion depth: 10 metres
- Installation: fixed or portable in a vertical position
- Special executions on request: other voltages and/or frequencies

The performance curves are based on the 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.

Liquid temperature range: from 0°C to +55°

## DRENAG 1400 - 1800



| MODEL                | A   | B  | C              | D          | E   | F Ø | DNM  | H   | H1  | PACKING DIMENSIONS |     |     | VOLUME<br>m <sup>3</sup> | WEIGHT<br>Kg |
|----------------------|-----|----|----------------|------------|-----|-----|------|-----|-----|--------------------|-----|-----|--------------------------|--------------|
|                      |     |    |                |            |     |     |      |     |     | L/A                | L/B | H   |                          |              |
| <b>DRENAG 1400 M</b> | 500 | 90 | 500x500<br>min | 600<br>min | 150 | 219 | 2" G | 584 | 144 | 680                | 330 | 380 | 0,085                    | 43,3         |
| <b>DRENAG 1800 T</b> | 500 | 90 | 500x500<br>min | 600<br>min | 150 | 219 | 2" G | 584 | 144 | 680                | 330 | 380 | 0,085                    | 44,2         |

| MODEL              | ELECTRICAL DATA  |                 |               |     |         |           | HYDRAULIC DATA (n ≈ 2800 1/min) |                                 |      |    |      |      |    |     |     |
|--------------------|------------------|-----------------|---------------|-----|---------|-----------|---------------------------------|---------------------------------|------|----|------|------|----|-----|-----|
|                    | VOLTAGE<br>50 Hz | P1<br>MAX<br>kW | P2<br>NOMINAL |     | In<br>A | CAPACITOR |                                 | Q<br>m <sup>3</sup> /h<br>l/min | H    |    |      |      |    |     |     |
|                    |                  |                 | kW            | HP  |         | µF        | Vc                              |                                 | 19,2 | 17 | 14,6 | 12,1 | 9  | 5,5 | —   |
| <b>DRENAG 1400</b> | 1x220-240 V ~    | 2               | 1,1           | 1,5 | 9,2     | 40        | 450                             | H (m)                           | 19,2 | 17 | 14,6 | 12,1 | 9  | 5,5 | —   |
| <b>DRENAG 1800</b> | 3x400 V ~        | 2,3             | 1,5           | 2   | 4,4     | —         | —                               | H (m)                           | 21,5 | 20 | 18   | 15,2 | 12 | 8,5 | 4,5 |