

# e.sybox mini<sup>3</sup>

ELECTRONIC PRESSURISATION SYSTEM



# E.SYBOX MINI<sup>3</sup>

## ELECTRONIC PRESSURISATION SYSTEM



### TECHNICAL DATA

#### Operating range:

capacity up to 80 l/min; head up to 55 m

**Liquid quality requirements:** clean, free from solid or abrasive contaminants, non-viscous, non-aggressive, uncrystallised and chemically neutral.

**Liquid temperature range:** from 0°C to +35°C for domestic use for other use: from 0°C to +40°C

**Maximum suction depth:** 8 meters

**Maximum ambient temperature:** +50°C

**Maximum operating pressure:** 7,5 bar (750 kPa)

**Motor protection rating:** IPX4

**Insulation class:** F

**Installation:** Horizontal or vertical fixed position

**Special executions on request:** alternative types of electrical plug

### APPLICATIONS

E.SYBOX MINI<sup>3</sup> is the DAB compact automatic pressurisation system for the water supply of a single dwelling. E.SYBOX MINI<sup>3</sup> guarantees the comfort of constant pressure (Pressure Set Point adjustable from 1 up to 5,5 bar) inside the system, and energy savings thanks to the inverter technology. Suitable for use with drinking water, in domestic systems, and in gardening applications. E.SYBOX MINI<sup>3</sup> does not require any additional components for its installation.

### CONSTRUCTIONAL FEATURES

It consists of a self-priming multistage pump, management inverter electronics, pressure and flow sensors, adjustable high resolution LCD display with 1 litre built-in expansion vessel, and cartridge check valve.

The double suction and delivery ports allow both vertical and horizontal installation. Thanks to its compact sizes, installation is also possible in difficult places without high air exchange.

The E.SYWALL wall bracket allows wall installation, saving even more room.

E.SYBOX MINI<sup>3</sup> is a self-priming pump with a capability of 8 metres in less than 5 minutes.

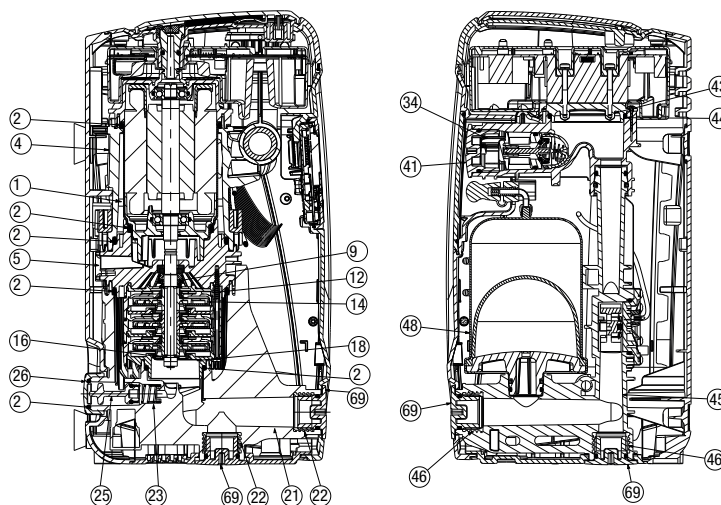
The water cooled motor, the anti-vibration feet and the electronics, make this product totally comfortable and compact.

Fitted with all the safety protections, as well as the protections for the safeguard of the pump. Particularly, the dry run, and the antifreeze protections.

All the parameters and the operating status can be displayed and set on the high resolution LCD display.

### MATERIALS

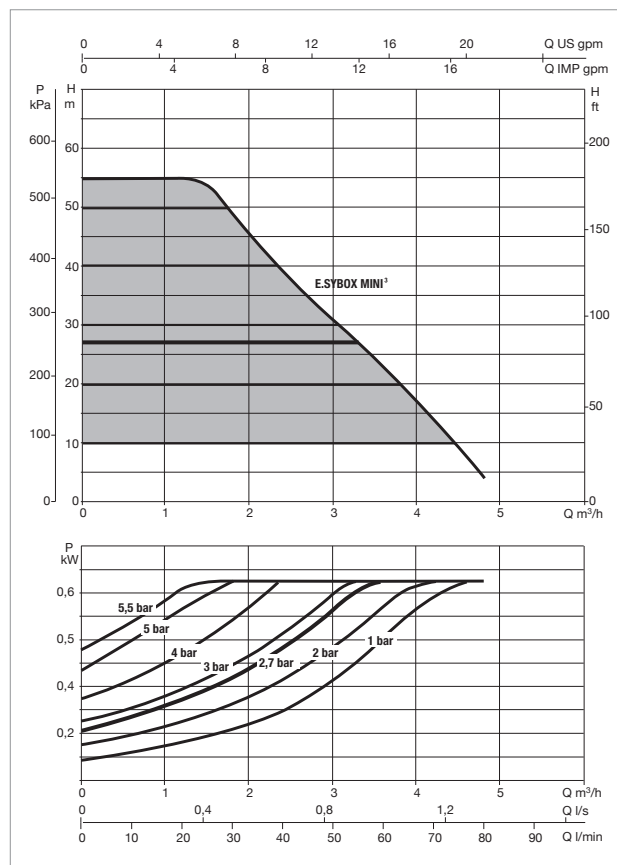
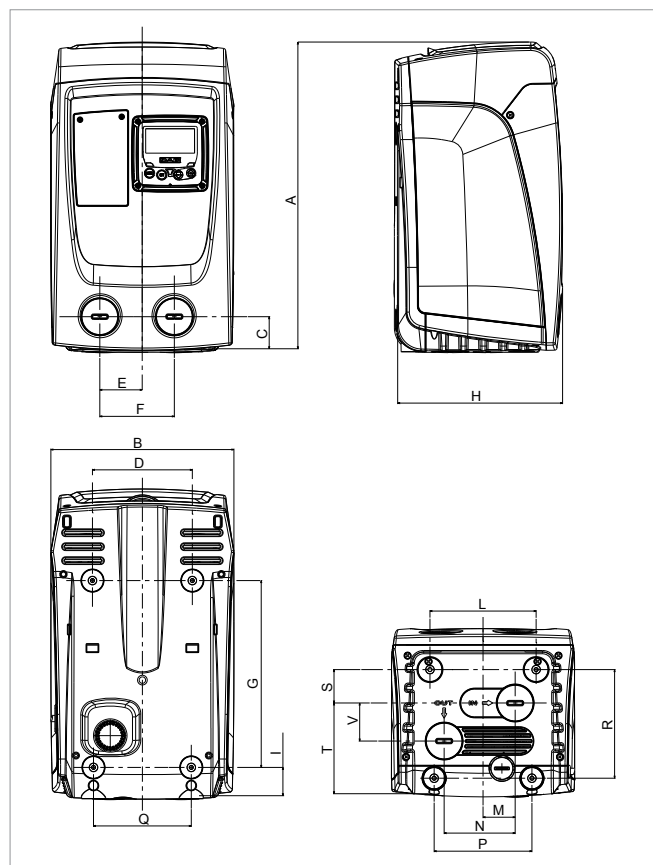
| N° | PARTS                | MATERIALS                                          |
|----|----------------------|----------------------------------------------------|
| 1  | MOTOR SLEEVE         | STAINLESS STEEL AISI 304                           |
| 2  | O-RING               | NBR                                                |
| 4  | MOTOR BODY           | PP OMO 30% GF                                      |
| 5  | MECHANICAL SEAL DISC | PA 6.6 30% GF                                      |
| 9  | MECHANICAL SEAL      | CARBON IMPREGNATED RESIN/<br>SILICON CARBIDE / NBR |
| 12 | DIFFUSER             | NORYL                                              |
| 14 | IMPELLER             | NORYL                                              |
| 21 | SUCTION BODY         | PP OMO 30% GF                                      |
| 22 | INSERT 1"            | BRASS                                              |
| 23 | SHUTTER SPRING       | STAINLESS STEEL AISI 303                           |
| 25 | SELFPRIMING SHUTTER  | POM                                                |
| 26 | 1" PLUG              | PP OMO 30% GF                                      |
| 34 | NON RETURN VALVE     | TECHNOPOLYMER/RUBBER/STEEL                         |
| 41 | 1" 1/4 PLUG          | PA 6.6 30% GF                                      |
| 43 | HEAT SINK            | BRASS                                              |
| 45 | DELIVERY BODY        | PP OMO 30% GF                                      |
| 46 | INSERT 1"            | BRASS                                              |
| 48 | VESSEL 1L            | TECHNOPOLYMER/RUBBER                               |
| 51 | FLOWMETER WHEEL      | POM                                                |
| 56 | PRESSURE SENSOR BODY | TECHNOPOLYMER                                      |
| 69 | 1" PLUG              | PA 6.6 30% GF                                      |



## E.SYBOX MINI<sup>3</sup> - ELECTRONIC PRESSURISATION SYSTEM FOR DOMESTIC WATER SUPPLY

Liquid temperature range: from 0°C a +35°C for domestic use - from 0°C a +40°C for other uses.

Maximum ambient temperature: +50°C



The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equivalent to 1000 kg/m³. Curve tolerance according to ISO 9906.

| MODEL                     | Q=m³/h  | 0    | 0,6  | 1,2  | 1,8  | 2,4  | 3    | 3,6  | 4,2  | 4,8 |
|---------------------------|---------|------|------|------|------|------|------|------|------|-----|
|                           | Q=l/min | 0    | 10   | 20   | 30   | 40   | 50   | 60   | 70   | 80  |
| E.SYBOX MINI <sup>3</sup> | H (m)   | 55,0 | 55,0 | 55,0 | 49,0 | 39,0 | 31,0 | 23,0 | 14,0 | 4,0 |

| MODEL                     | ELECTRICAL DATA |                       |        |     |      |
|---------------------------|-----------------|-----------------------|--------|-----|------|
|                           | N° IMPELLER     | POWER SUPPLY 50/60 Hz | P1 MAX |     | In A |
|                           |                 |                       | kW     | HP  |      |
| E.SYBOX MINI <sup>3</sup> | 3               | 220-240V ~            | 0,85   | 1,1 | 4,8  |

| MODEL                     | A   | B   | C  | D   | E    | F     | G     | H   | I    | L   | M  | N     | P   | Q   | R     | S    | T   | V    | DNA | DNM | PACK DIMENSIONS |     |     | GROSS Kg |
|---------------------------|-----|-----|----|-----|------|-------|-------|-----|------|-----|----|-------|-----|-----|-------|------|-----|------|-----|-----|-----------------|-----|-----|----------|
|                           |     |     |    |     |      |       |       |     |      |     |    |       |     |     |       |      |     |      |     |     | L/A             | L/B | H   |          |
| E.SYBOX MINI <sup>3</sup> | 439 | 263 | 46 | 143 | 60,7 | 106,7 | 279,5 | 236 | 40,5 | 152 | 46 | 101,7 | 140 | 140 | 155,5 | 47,8 | 133 | 54,5 | 1"  | 1"  | 300             | 500 | 320 | 14,6     |



On-line selection tool

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