

EN
NEW



JSW1[®]



 **PEDROLLO[®]**
... the spring of life

NEW

TECHNICAL CHARACTERISTICS

- ▶ New self-priming electric water pumps
- ▶ Original design by Pedrollo (patented)
- ▶ More silent
- ▶ Better hydraulic characteristics
- ▶ Better priming performances
- ▶ Reduced energy consumption
- ▶ Impeller in stainless steel AISI 304
- ▶ Registered models

INSTALLATION AND USE

Suitable for use with clean water and liquids that are not chemically aggressive towards the materials from which the pump is made. The self-priming **JSW** pumps are designed to pump water even in cases where air is present. As a result of their reliability and the fact that they are easy to use, they are recommended for use in domestic applications such as the distribution of water in combination with small or medium sized pressure sets, and for the irrigation of gardens and allotments, etc.

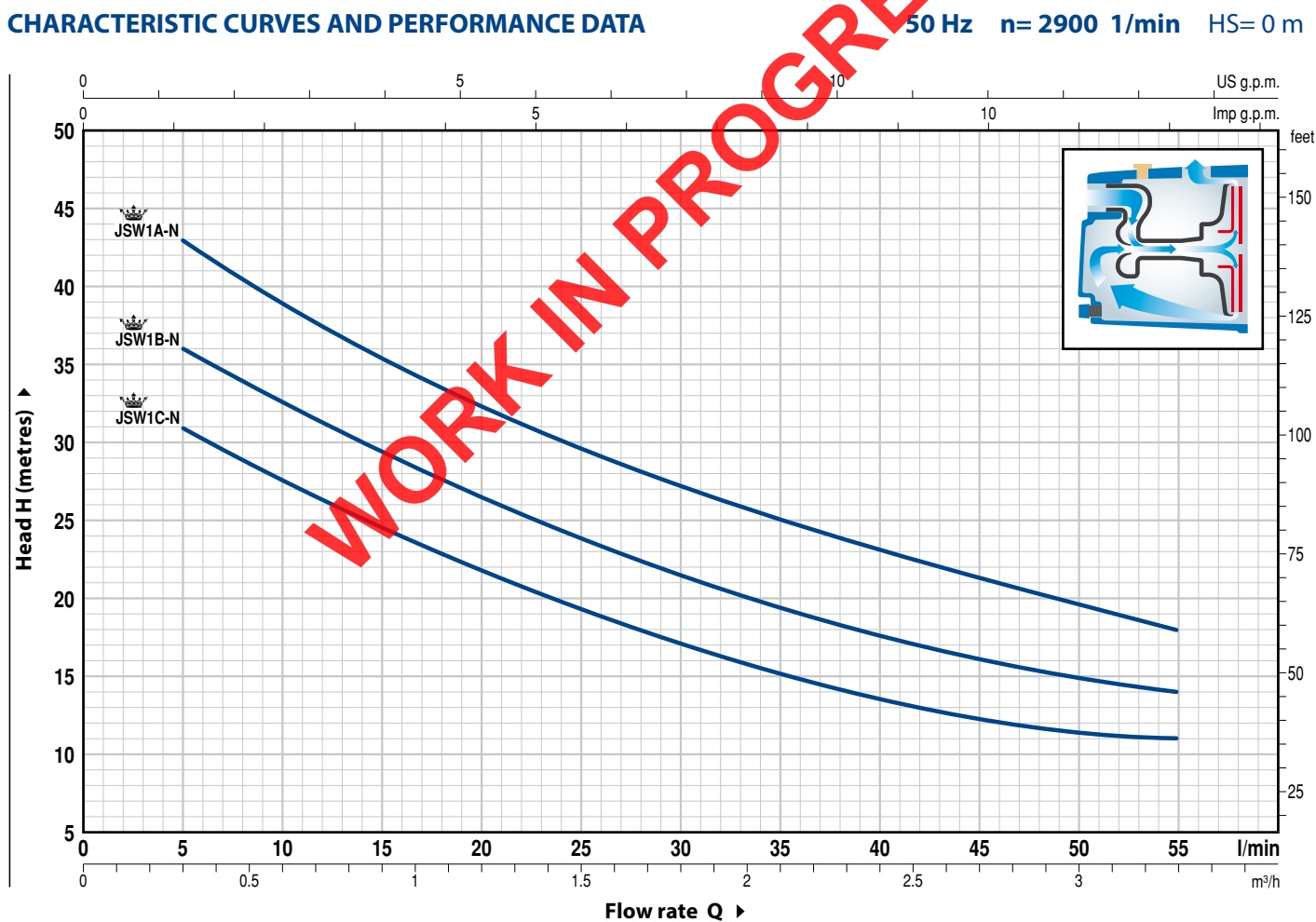
APPLICATION LIMITS

- Manometric suction lift up to **9 m (HS)**
- Liquid temperature between **-10 °C** and **+40 °C**
- Ambient temperature up to **+40 °C**
- Max. working pressure **6 bar**
- Continuous service **S1**

PATENTS - TRADE MARKS - MODELS

- Registered model JSW®
- Registered Community Design n° 002218610
- European Patent n° 1 510 696

CHARACTERISTIC CURVES AND PERFORMANCE DATA



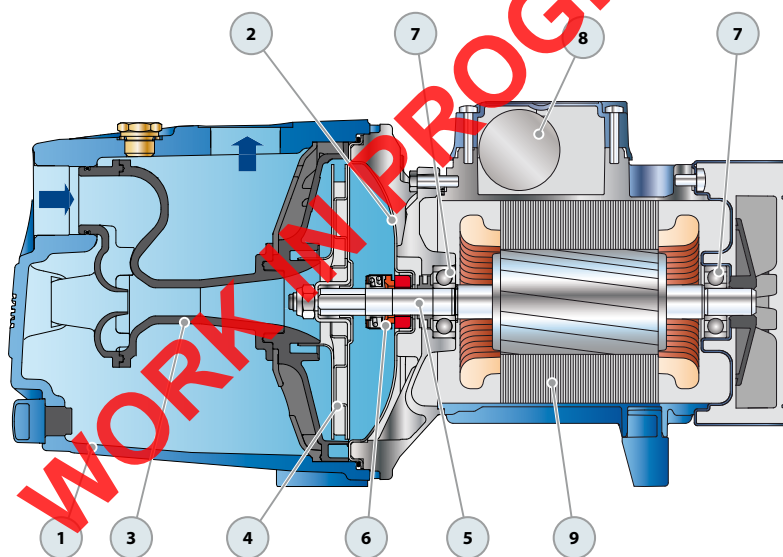
| MODEL | | POWER | | Q | m³/h | 0 | 0.3 | 0.6 | 1.2 | 1.5 | 1.8 | 2.4 | 2.7 | 3.0 | 3.3 |
|--------------|-------------|-------|------|----------|-------|----|-----|------|------|------|------|------|------|------|-----|
| Single-phase | Three-phase | kW | HP | | l/min | 0 | 5 | 10 | 20 | 25 | 30 | 40 | 45 | 50 | 55 |
| JSWm 1C-N | – | 0.37 | 0.50 | H metres | | 35 | 31 | 27.5 | 22 | 19.5 | 17 | 14.5 | 13 | 11.5 | 11 |
| JSWm 1B-N | JSW 1B-N | 0.50 | 0.70 | | | 41 | 36 | 33 | 26.5 | 23.5 | 21.5 | 17.5 | 16 | 15 | 14 |
| JSWm 1A-N | JSW 1A-N | 0.60 | 0.85 | | | 48 | 43 | 39 | 32 | 29.5 | 27.5 | 23 | 21.5 | 19.5 | 18 |

Q = Flow rate H = Total manometric head HS = Suction height

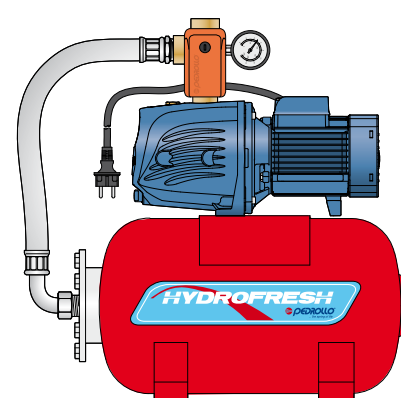
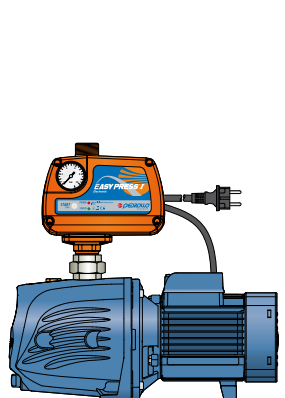
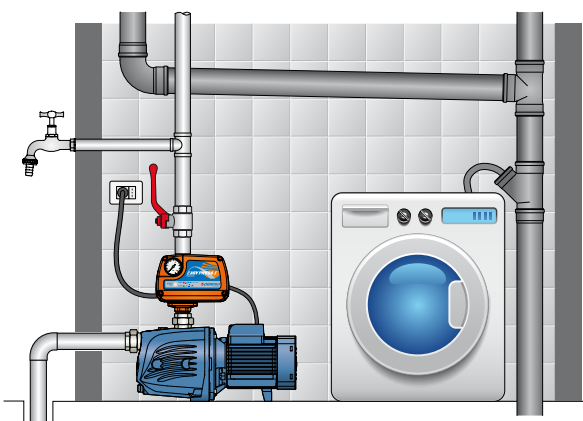
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3.

POS. COMPONENT CONSTRUCTION CHARACTERISTICS

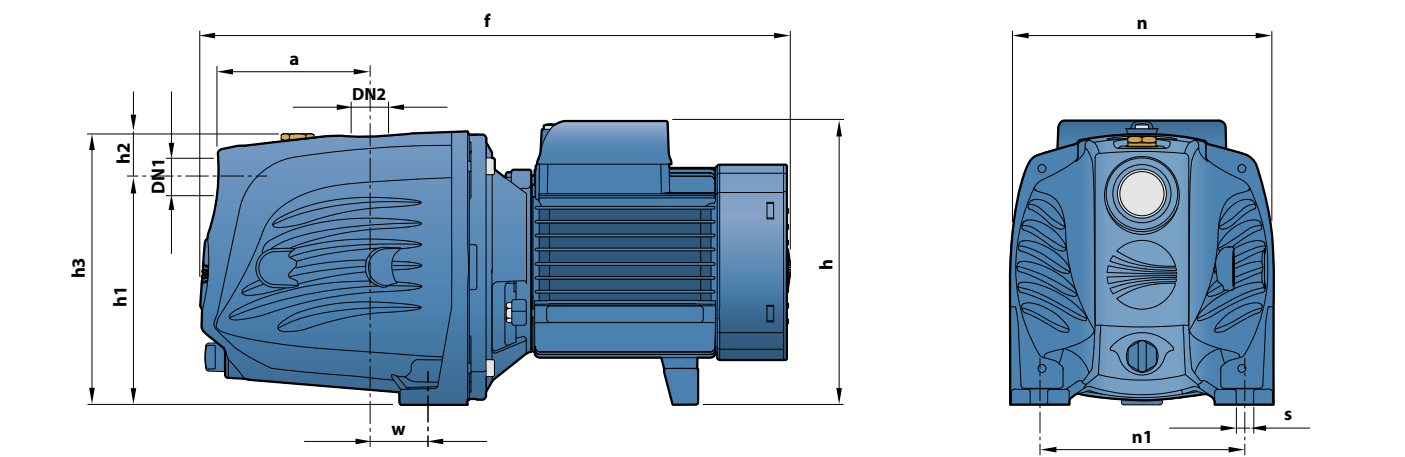
| | | | | | | |
|---|-----------------|---|------------------------------|-----------------|---------------------------|-----------|
| 1 | PUMP BODY | Cast iron, complete with threaded ports in compliance with ISO 228/1 | | | | |
| 2 | BODY BACKPLATE | Stainless steel AISI 304 | | | | |
| 3 | NOZZLE ASSEMBLY | Noryl FE1520PW | | | | |
| 4 | IMPELLER | Stainless steel AISI 304 | | | | |
| 5 | MOTOR SHAFT | Stainless steel AISI 304 EN 10088-3 - 1.4104 | | | | |
| 6 | MECHANICAL SEAL | Seal Model | Shaft Diameter | Stationary ring | Materials Rotational ring | Elastomer |
| | | AR-12 | Ø 12 mm | Ceramic | Graphite | NBR |
| 7 | BEARINGS | 6201 ZZ / 6201 ZZ | | | | |
| 8 | CAPACITOR | Pump Single-phase | Capacitance (230 V or 240 V) | (110 V) | | |
| | | JSWm 1C-N | 10 µF 450 VL | 25 µF 250 VL | | |
| | | JSWm 1B-N | 10 µF 450 VL | 25 µF 250 VL | | |
| | | JSWm 1A-N | 14 µF 450 VL | 25 µF 250 VL | | |
| 9 | ELECTRIC MOTOR | <p>JSWm: single-phase 230 V - 50 Hz with thermal overload protector built-in to the winding.</p> <p>JSW: three-phase 230/400 V - 50 Hz.</p> <p>➡ Pumps fitted with the three-phase motor option offer IE2 (IEC 60034-30) class high performance.</p> <p>➡ Stator and rotor are made out of magnetic sheet with low iron loss.</p> <p>– Insulation: F class.</p> <p>– Protection: IP X4.</p> | | | | |



INSTALLATION EXAMPLE



DIMENSIONS AND WEIGHT



| MODEL | | PORTS | | DIMENSIONS | | | | | | | | | | kg | |
|--------------|-------------|-------|-----|------------|-----|-----|-----|----|-----|-----|-----|----|----|------|-----|
| Single-phase | Three-phase | DN1 | DN2 | a | f | h | h1 | h2 | h3 | n | n1 | w | s | 1~ | 3~ |
| JSWm 1C-N | – | 1" | 1" | 94 | 348 | 171 | 127 | 33 | 160 | 158 | 124 | 24 | 10 | 9.0 | – |
| JSWm 1B-N | JSW 1B-N | | | | | | | | | | | | | 9.8 | 9.8 |
| JSWm 1A-N | JSW 1A-N | | | | | | | | | | | | | 10.2 | 9.8 |

ABSORPTION

| MODEL | | VOLTAGE (single-phase) | | | MODEL | | VOLTAGE (three-phase) | | | | | |
|--------------|-------------|------------------------|-------|-------|-------------|-------|-----------------------|-------|-------|-------|-------|--|
| Single-phase | Three-phase | 230 V | 240 V | 110 V | Three-phase | 230 V | 400 V | 690 V | 240 V | 415 V | 720 V | |
| JSWm 1C-N | – | 2.5 A | 2.4 A | 5.0 A | JSW 1B-N | 2.1 A | 1.2 A | 0.7 A | 2.0 A | 1.2 A | 0.7 A | |
| JSWm 1B-N | – | 3.0 A | 2.9 A | 6.0 A | JSW 1A-N | 2.8 A | 1.6 A | 0.9 A | 2.7 A | 1.6 A | 0.9 A | |
| JSWm 1A-N | – | 3.6 A | 3.3 A | 7.3 A | | | | | | | | |

PALLETIZATION

| MODEL | | GROUPAGE | | | | CONTAINER | | | |
|--------------|-------------|----------|--------|-------|-------|-----------|--------|-------|-------|
| Single-phase | Three-phase | n° pumps | H (mm) | 1~ kg | 3~ kg | n° pumps | H (mm) | 1~ kg | 3~ kg |
| JSWm 1C-N | – | 98 | 1561 | 906 | – | 140 | 2170 | 1284 | – |
| JSWm 1B-N | JSW 1B-N | 98 | 1561 | 984 | 984 | 140 | 2170 | 1396 | 1396 |
| JSWm 1A-N | JSW 1A-N | 98 | 1561 | 1024 | 981 | 140 | 2170 | 1452 | 1392 |

