



TECHNICAL DATA

Operating range: from 1 to 14.4 m³/h.

Pumped liquid: clean, free of solids and abrasives, non viscous, non aggressive, non crystallised and chemically neutral, with properties similar to water.

Pumped liquid temperature range: from 0 °C to +35°C.

Maximum ambient temperature: +40°C.

Maximum operating pressure: PN10.

Special executions on request: contact our sales network.

Protection class: IP44.

IE2 motors as standard from 0,75 kW to 5,5 kW - IE3 ≥ 7,5 kW.

APPLICATIONS

Water lifting sets particularly suited for domestic use, and small civil, agricultural, or industrial systems. The JET self-priming pumps used have the characteristic of also working when water, gas, or small amounts of sand are present in the water. These pumps are invaluable when drawing water from artesian wells and in case of suction difficulties. Their main features are utmost reliability, simple operation, and the fact that no maintenance is required. The sets are supplied as standard with tanks and with air supply connector.

CONSTRUCTION FEATURES

HYDRAULIC SECTION

2 JET centrifugal self-priming pumps. Tropicalized galvanized sheet steel base complete with 4 rubber anti-vibration feet. Suction and delivery manifolds in tropicalized galvanized steel. 2 membrane tanks. Ball valves with unions on the suction and delivery ports of each pump. Check valves on the suction port of each pump. 1 1/4" air supply connection at the suction of each pump. 2 tropicalized galvanized cast iron female plugs for closing the manifolds. 1 pressure transmitter on the delivery manifold (pressure detection).

ELECTRICAL SECTION

Supplied in an IP 55 protection class self-extinguishing thermoplastic material box, the control panel protects the electric pumps from abnormal conditions such as: overload and overtemperature (with automatic reset), short circuit (with fuses - Plus model only), pump current surges (amperometric protection), abnormal voltage, dry run, quick starts, pressure sensor fault, or inconsistency of the external protection commands.

FRONT PANEL COMPONENTS:

General disconnecter with padlockable door lock. AUT-0-MAN operation selection pushbuttons. Alarm RESET pushbutton. Display for all models. Operation, stop, alarm notification lamps.

PANEL INTERNAL COMPONENTS:

Electronic control card with protection fuses and contactors. Power input connection terminals (single phase or three phase). Dry run or overpressure pressure switch connection terminals (optional). Alarm notification N.O. contacts.

Function selection mini dip switch (pressure transmitter or pressure switches, standard or additional tanks).

The electric control panel is ready for the connection of:

Dry run protection float or pressure switch kit (*).

Overpressure stop pressure switch kit (*).

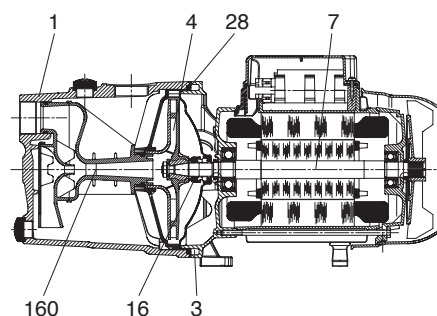
(* available separately as optional).

The sets are supplied in a sturdy cardboard packaging on wooden pallet and installation / maintenance manual with electric diagram.

MATERIALS

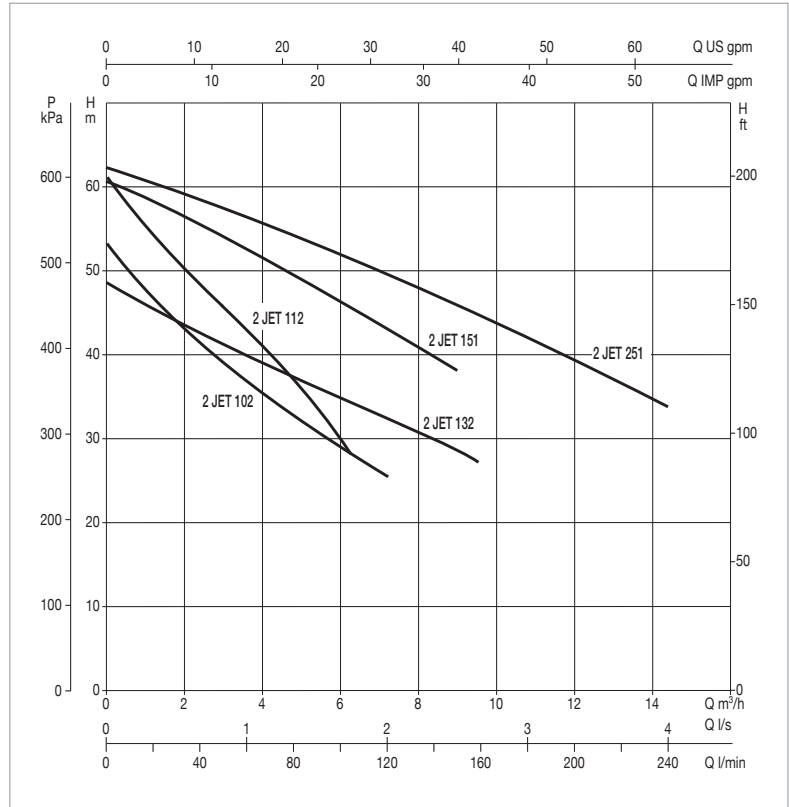
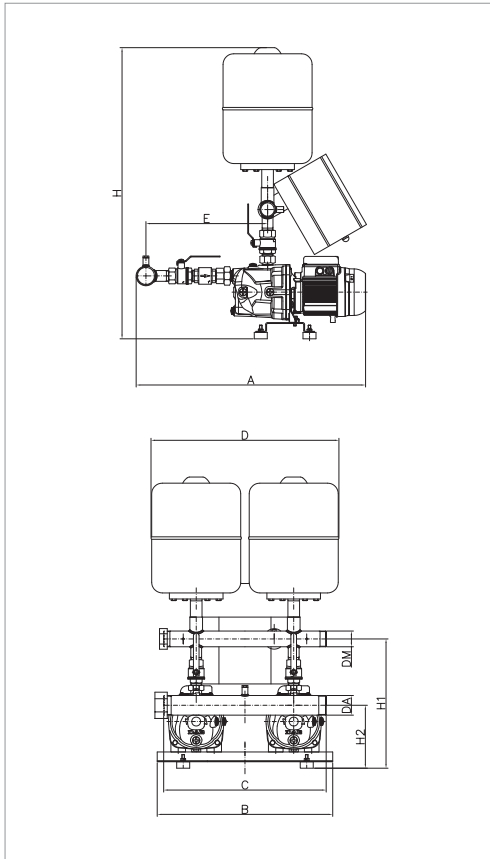
| N. | PARTS* | MATERIALS |
|-----|----------------------------------|---|
| 1 | PUMP BODY | CAST IRON 200 UNI ISO 185 |
| 3 | SUPPORT | DIE-CAST ALUMINIUM |
| 4 | IMPELLER | TECHNOPOLYMER A |
| 7 | SHAFT WITH ROTOR | AISI 416 STAINLESS STEEL X12 CrS13 - UNI 6900/71 |
| 16 | MECHANICAL SEAL | CARBON / CERAMIC |
| 28 | OR RING | NBR RUBBER |
| 160 | VENTURI DIFFUSER NOZZLE ASSEMBLY | TECHNOPOLYMER A |

* In contact with the liquid



2 JET - CIVIL USE PRESSURE BOOSTER SETS

Pumped liquid temperature range: from 0°C to +35°C - Maximum ambient temperature: +40 °C - Max flow rate: 14.4 m³/h



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

| MODEL | POWER INPUT 50 Hz | P2 NOMINAL | | In A | FLOW m ³ /h | MAX OBTAINABLE PRESSURE BAR | STANDARD PRESSURE BAR |
|-------------|----------------------|------------|--------|---------|---------------------------|-----------------------------------|-----------------------------|
| | | kW | HP | | | | |
| 2 JET 102 M | 1x220-240 V ~ | 2x0,75 | 2x1 | 2x5,1 | 6.6-3.0 | 5 | 3.5 |
| 2 JET 112 M | 1x220-240 V ~ | 2x1 | 2x1,36 | 2x7 | 6.6-3.0 | 5.8 | 4 |
| 2 JET 132 M | 1x220-240 V ~ | 2x1 | 2x1,36 | 2x7 | 9.6-3.0 | 4.6 | 3 |
| 2 JET 151 M | 1x220-240 V ~ | 2x1,1 | 2x1,5 | 2x7,2 | 9.4-5.0 | 6.1 | 4 |
| 2 JET 251 M | 1x220-240 V ~ | 2x1,85 | 2x2,5 | 2x10 | 14.0-7.2 | 6.4 | 4 |
| 2 JET 102 T | 3x400 V ~ | 2x0,75 | 2x1 | 2x1,98 | 6.6-3.0 | 5 | 3.5 |
| 2 JET 112 T | 3x400 V ~ | 2x1 | 2x1,36 | 2x2,7 | 6.6-3.0 | 5.8 | 4 |
| 2 JET 132 T | 3x400 V ~ | 2x1 | 2x1,36 | 2x2,7 | 9.6-3.0 | 4.6 | 3 |
| 2 JET 151 T | 3x400 V ~ | 2x1,1 | 2x1,5 | 2x3 | 9.4-5.0 | 6 | 4 |
| 2 JET 251 T | 3x400 V ~ | 2x1,85 | 2x2,5 | 2x4 | 14.4-7.2 | 6 | 4 |

| MODEL | A | B | C | D | E | H | H1 | H2 | Ø MANIFOLDS | | WEIGHT kg |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-------------|------------|--------------|
| | | | | | | | | | DNA (suc.) | DNM (del.) | |
| 2 JET 102 M | 715 | 540 | 500 | 575 | 385 | 830 | 398 | 194 | 2" | 1 1/2" | 71 |
| 2 JET 112 M | 715 | 540 | 500 | 575 | 385 | 830 | 398 | 194 | 2" | 1 1/2" | 74 |
| 2 JET 132 M | 715 | 540 | 500 | 575 | 385 | 830 | 398 | 194 | 2" | 1 1/2" | 77 |
| 2 JET 151 M | 715 | 540 | 500 | 565 | 385 | 830 | 398 | 194 | 2" | 1 1/2" | 101 |
| 2 JET 251 M | 715 | 540 | 500 | 575 | 385 | 830 | 398 | 194 | 2" | 1 1/2" | 75 |
| 2 JET 102 T | 715 | 540 | 500 | 575 | 385 | 830 | 398 | 194 | 2" | 1 1/2" | 75 |
| 2 JET 112 T | 715 | 540 | 500 | 575 | 385 | 830 | 398 | 194 | 2" | 1 1/2" | 78 |
| 2 JET 132 T | 715 | 540 | 500 | 575 | 385 | 830 | 398 | 194 | 2" | 1 1/2" | 81 |
| 2 JET 151 T | 960 | 540 | 500 | 565 | 535 | 850 | 458 | 184 | 2" | 1 1/2" | 105 |
| 2 JET 251 T | 960 | 540 | 500 | 565 | 535 | 850 | 458 | 184 | 2" | 1 1/2" | 108 |