# JETINOX

## SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

## TECHNICAL DATA

**Operating range:**
from 0.4 to 10.5 $m^3/h$ with head up to 62 metres.
**Liquid quality requirements:** clean, free from solid or abrasive contaminants, non-viscous, non-aggressive, uncrystallised and chemically neutral.
**Liquid temperature range:**
for domestic use: from 0°C to +35°C (EN 60335-2-41)
for other use: from 0°C to +40°C
**Maximum suction depth:** 8 metres.
**Maximum ambient temperature:** +50°C
**Maximum operating pressure:** 8 bar (800 kPa)
**Installation:** fixed in a horizontal position.
**Special executions on request:** alternative voltages and/or frequencies.
**Motor protection rating:** IP 44
**Terminal block protection rating:** IP 55
**Insulation class:** F
**Standard input voltage:** single phase 220-240 V / 50 Hz
three phase 230-400 V / 50 Hz

### APPLICATIONS

Self priming centrifugal pump with excellent suction capacity even in the presence of air bubbles.
Suitable for pumping water with low levels of sandy impurities.
Especially used in domestic water supply installations.
Suitable for small farms and gardening, small scale industrial services and where self priming is necessary.

### CONSTRUCTIONAL FEATURES OF THE PUMP

Pump body, seal holder cover and wear ring in stainless steel.
Motor support in die cast aluminium.
Impeller, diffuser, venturi tube in technopolymer.
Carbon/ceramic mechanical seal.

### CONSTRUCTIONAL FEATURES OF THE MOTOR

Asynchronous type, closed, with external air cooling.
Rotor mounted on oversized greased-for-life ball bearings, to guarantee low noise and long life.
Incorporated thermo-amperometric protection and permanently inserted capacitor in the single phase version.
It is recommended to use overload protection for three phase motor protection, in compliance with current legislation.
Manufacture pursuant to CEI 2-3 and CEI 61-69 (EN 60335-2-41) standard.

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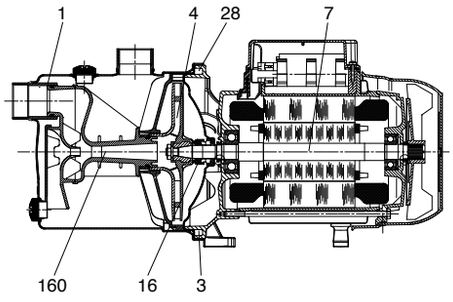
## SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

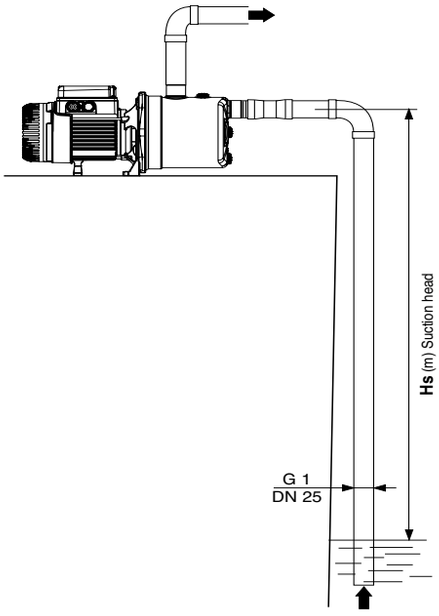
## MATERIALS

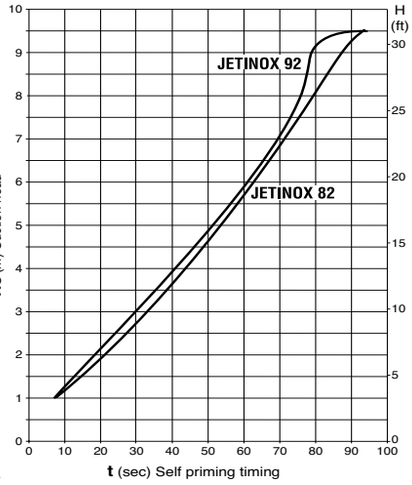
| N° | PARTS * | MATERIALS |
|---|---|---|
| 1 | PUMP BODY | AISI 304 STAINLESS STEEL X5 CRNi 1810 - UNI 6900/71 |
| 4 | IMPELLER | TECHNOPOLYMER A |
| 7 | SHAFT WITH ROTOR | AISI 416 STAINLESS STEEL X12 CrS13 - UNI 6900/71 |
| 16 | MECHANICAL SEAL | CARBON/CERAMIC |
| 28 | OR GASKET | NBR RUBBER |
| 36 | SEAL HOLDER COVER | AISI 304 STAINLESS STEEL X5 CRNi 1810 - UNI 6900/71 |
| 160 | VENTURI DIFFUSER NOZZEL GROUP | TECHNOPOLYMER A |

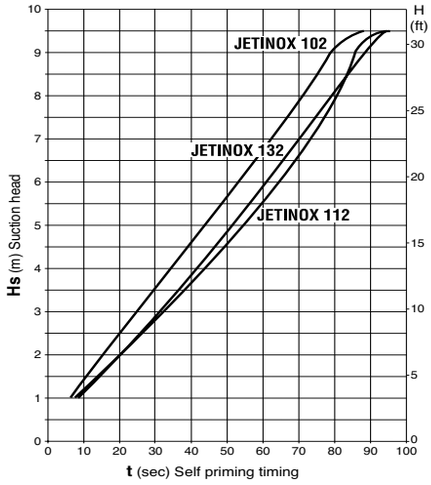
* In contact with liquid




## SELF PRIMING CAPACITY



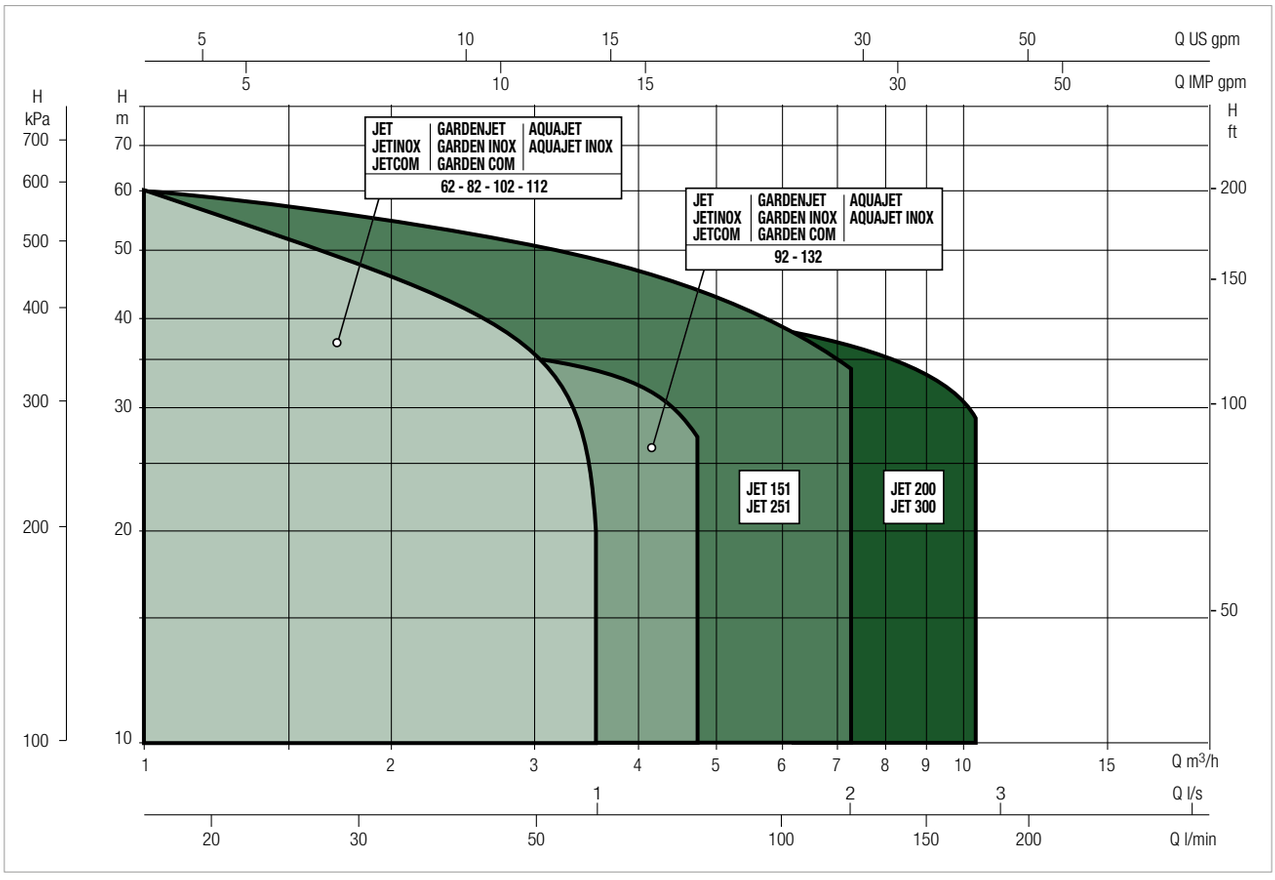
# JETINOX

## SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

## PERFORMANCE RANGE

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

### GRAPHIC SELECTION TABLE

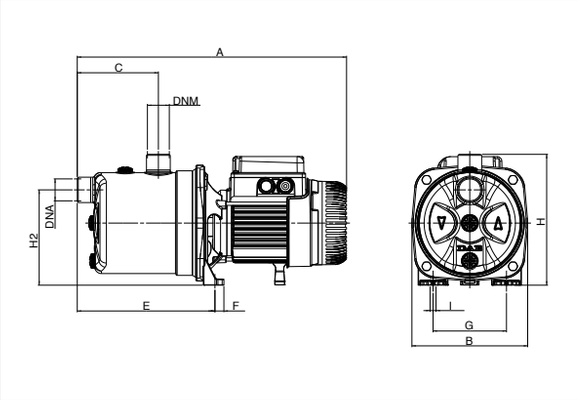


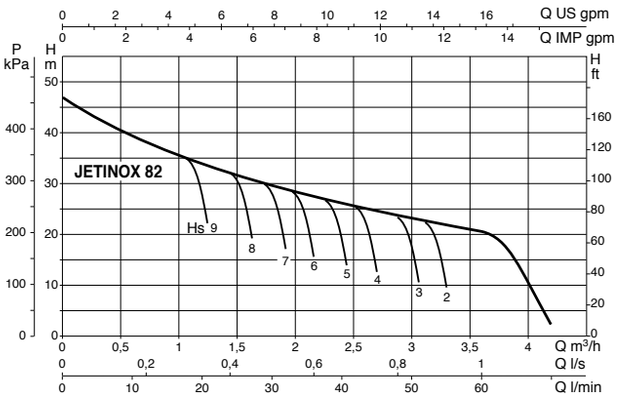

## JETINOX SELECTION TABLE

| MODEL | Q=m³/h | 0 | 0.6 | 1.2 | 1.8 | 2.4 | 3.0 | 3.6 | 4.2 | 4.8 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Q=l/min | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 |
| **JETINOX 82 M** | H (m) | 47 | 40 | 34 | 30 | 26.2 | 23.5 | 20.3 | | |
| **JETINOX 82 T** | | 47 | 40 | 34 | 30 | 26.2 | 23.5 | 20.3 | | |
| **JETINOX 102 M** | | 53.8 | 47 | 41 | 36.3 | 32.4 | 28.8 | 25.8 | | |
| **JETINOX 102 T** | | 53.8 | 47 | 41 | 36.3 | 32.4 | 28.8 | 25.8 | | |
| **JETINOX 112 M** | | 61 | 54 | 47.8 | 42.8 | 38.8 | 34.8 | 20 | | |
| **JETINOX 112 T** | | 61 | 54 | 47.8 | 42.8 | 38.8 | 34.8 | 20 | | |
| **JETINOX 92 M** | | 36.2 | 33.5 | 31 | 28.4 | 26 | 24 | 21.8 | 19.6 | 17.5 |
| **JETINOX 132 M** | | 48.3 | 45.6 | 42.8 | 40 | 37.6 | 35 | 32.5 | 30 | 27.2 |
| **JETINOX 132 T** | | 48.3 | 45.6 | 42.8 | 40 | 37.6 | 35 | 32.5 | 30 | 27.2 |

## **JETINOX 82 -** SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS FOR DOMESTIC WATER SUPPLY

Liquid temperature range pumped: from 0 °C to +35 °C - Maximum ambient temperature: +50°C



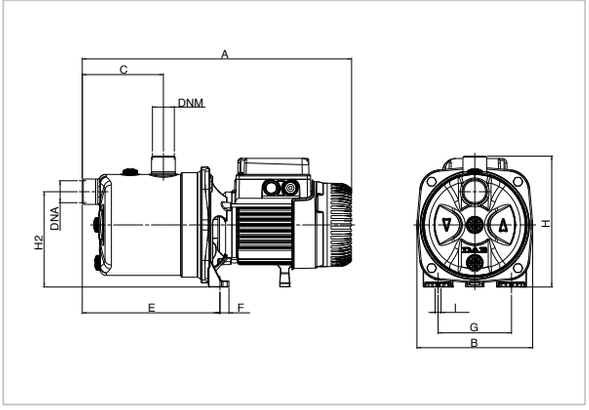

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equivalent to 1000 kg/m³. Curve tolerance according to ISO 9906.

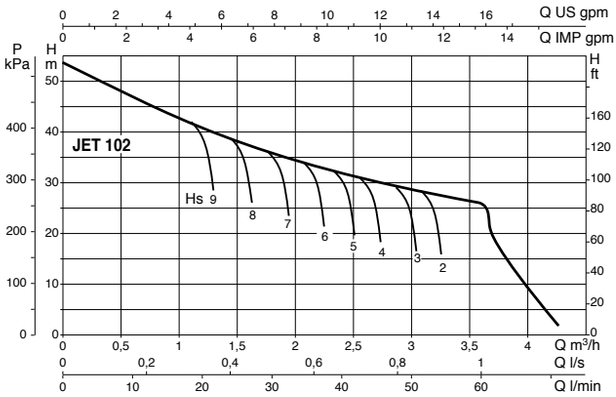
| MODEL | ELECTRICAL DATA | | | | | | |
|---|---|---|---|---|---|---|---|
| | POWER SUPPLY 50 Hz | P1 MAX kW | P2 NOMINAL | | In A | CAPACITOR | |
| | | | kW | HP | | µF | Vc |
| **JETINOX 82 M** | 1x220-240 V ~ | 0.85 | 0.6 | 0.8 | 3.8 | 12.5 | 450 |
| **JETINOX 82 T** | 3x230-400 V ~ | 0.86 | 0.6 | 0.8 | 2.8-1.6 | – | – |

| MODEL | A | B | C | E | F | G | H | H1 | H2 | I Ø | L | DNA GAS | DNM GAS | PACK DIMENSIONS | | | VOLUME (mc) | GROSS WEIGHT Kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | L/A | L/B | H | | |
| **JETINOX 82** | 406 | 174 | 122 | 207 | 14 | 111 | 197 | – | 144 | 9 | – | 1" | 1" | 470 | 240 | 240 | 0.027 | 7.8 |

## **JETINOX 102 -** SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS FOR DOMESTIC WATER SUPPLY

Liquid temperature range pumped: from 0 °C to +35 °C - Maximum ambient temperature: +50°C



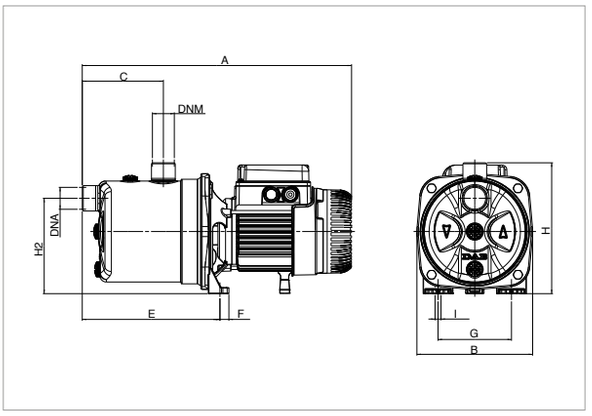

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equivalent to 1000 kg/m³. Curve tolerance according to ISO 9906.

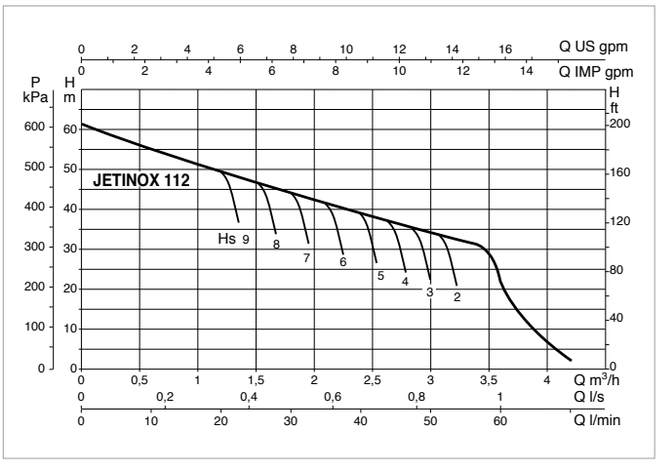
| MODEL | ELECTRICAL DATA | | | | | | |
|---|---|---|---|---|---|---|---|
| | POWER SUPPLY 50 Hz | P1 MAX kW | P2 NOMINAL | | In A | CAPACITOR | |
| | | | kW | HP | | µF | Vc |
| **JETINOX 102 M** | 1x220-240 V ~ | 1.13 | 0.75 | 1 | 5.1 | 16 | 450 |
| **JETINOX 102 T** | 3x230-400 V ~ | 1.04 | 0.75 | 1 | 3.3-1.9 | – | -– |

| MODEL | A | B | C | E | F | G | H | H1 | H2 | I Ø | L | DNA GAS | DNM GAS | PACK DIMENSIONS | | | VOLUME (mc) | GROSS WEIGHT Kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | L/A | L/B | H | | |
| **JETINOX 102** | 424 | 174 | 122 | 207 | 14 | 111 | 197 | – | 144 | 9 | – | 1" | 1" | 470 | 240 | 240 | 0.027 | 9.6 |

## **JETINOX 112 -** SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS FOR DOMESTIC WATER SUPPLY

Liquid temperature range pumped: from 0 °C to +35 °C - Maximum ambient temperature: +50°C



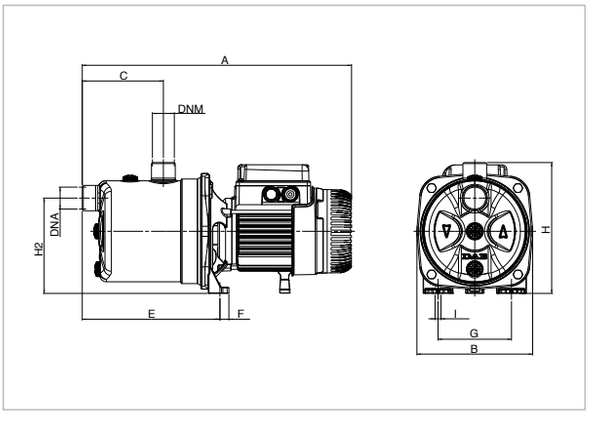

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equivalent to 1000 kg/m³. Curve tolerance according to ISO 9906.

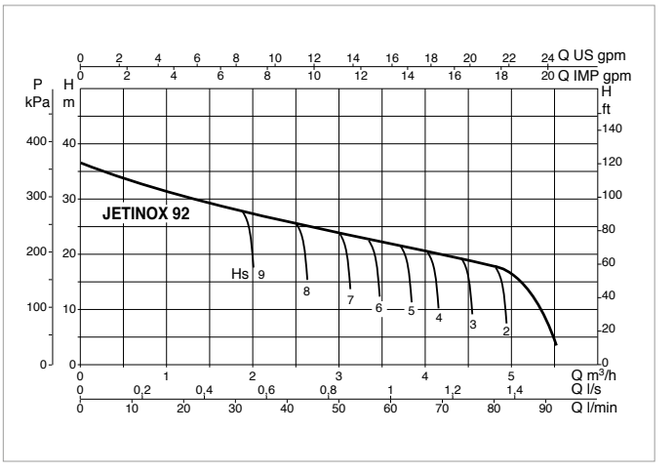
| MODEL | ELECTRICAL DATA | | | | | | |
|---|---|---|---|---|---|---|---|
| | POWER SUPPLY 50 Hz | P1 MAX kW | P2 NOMINAL | | In A | CAPACITOR | |
| | | | kW | HP | | µF | Vc |
| **JETINOX 112 M** | 1x220-240 V ~ | 1.4 | 1 | 1.36 | 6.2 | 25 | 450 |
| **JETINOX 112 T** | 3x230-400 V ~ | 1.35 | 1 | 1.36 | 4.3-2.5 | – | – |

| MODEL | A | B | C | E | F | G | H | H1 | H2 | I Ø | L | DNA GAS | DNM GAS | PACK DIMENSIONS | | | VOLUME (mc) | GROSS WEIGHT Kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | L/A | L/B | H | | |
| **JETINOX 112 M** | 424 | 174 | 122 | 207 | 14 | 111 | 197 | – | 144 | 9 | – | 1" | 1" | 470 | 240 | 240 | 0.027 | 10.6 |
| **JETINOX 112 T** | 440 | 174 | 122 | 207 | 14 | 111 | 197 | – | 144 | 9 | – | 1" | 1" | 470 | 240 | 240 | 0.027 | 11.7 |

## **JETINOX 92 -** SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS FOR DOMESTIC WATER SUPPLY

Liquid temperature range pumped: from 0 °C to +35 °C - Maximum ambient temperature: +50°C



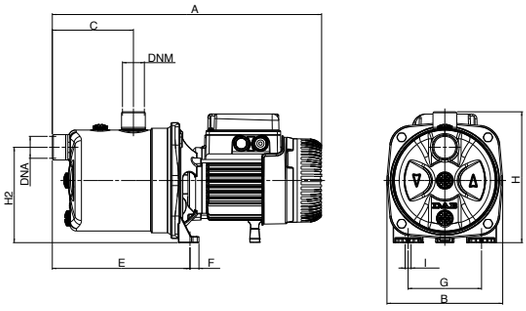

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equivalent to 1000 kg/m³. Curve tolerance according to ISO 9906.

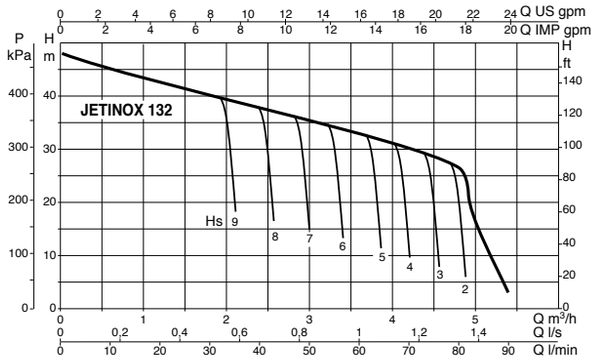
| MODEL | ELECTRICAL DATA | | | | | | |
|---|---|---|---|---|---|---|---|
| | POWER SUPPLY 50 Hz | P1 MAX kW | P2 NOMINAL | | In A | CAPACITOR | |
| | | | kW | HP | | µF | Vc |
| **JETINOX 92 M** | 1x220-240 V ~ | 0.94 | 0.75 | 1 | 4.2 | 14 | 450 |

| MODEL | A | B | C | E | F | G | H | H1 | H2 | I Ø | L | DNA GAS | DNM GAS | PACK DIMENSIONS | | | VOLUME (mc) | GROSS WEIGHT Kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | L/A | L/B | H | | |
| **JETINOX 92** | 406 | 174 | 122 | 207 | 14 | 111 | 197 | – | 144 | 9 | – | 1" | 1" | 470 | 240 | 240 | 0.027 | 8.8 |

# **JETINOX 132 -** SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS FOR DOMESTIC WATER SUPPLY

Liquid temperature range pumped: from 0 °C to +35 °C - Maximum ambient temperature: +50°C




The performance curves are based on the kinematic viscosity values = 1 $mm^2/s$ and density equivalent to 1000 $kg/m^3$. Curve tolerance according to ISO 9906.

| MODEL | ELECTRICAL DATA | | | | | | |
|---|---|---|---|---|---|---|---|
| | POWER SUPPLY 50 Hz | P1 MAX kW | P2 NOMINAL | | In A | CAPACITOR | |
| | | | kW | HP | | µF | Vc |
| **JETINOX 132 M** | 1x220-240 V ~ | 1.49 | 1 | 1.36 | 6.6 | 25 | 450 |
| **JETINOX 132 T** | 3x230-400 V ~ | 1.43 | 1 | 1.36 | 4.7-2.7 | – | – |

| MODEL | A | B | C | E | F | G | H | H1 | H2 | I Ø | L | DNA GAS | DNM GAS | PACK DIMENSIONS | | | VOLUME (mc) | GROSS WEIGHT Kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | L/A | L/B | H | | |
| **JETINOX 132 M** | 424 | 174 | 122 | 207 | 14 | 111 | 197 | – | 144 | 9 | – | 1" | 1" | 470 | 240 | 240 | 0.027 | 10.6 |
| **JETINOX 132 T** | 440 | 174 | 122 | 207 | 14 | 111 | 197 | – | 144 | 9 | – | 1" | 1" | 470 | 240 | 240 | 0.027 | 12.6 |