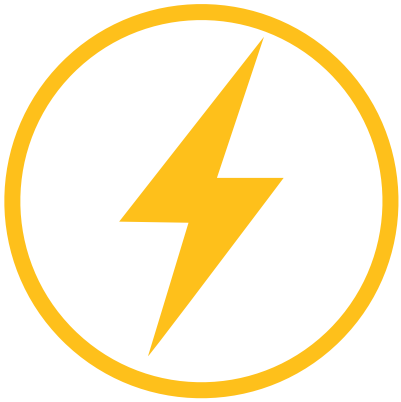
calpeda®

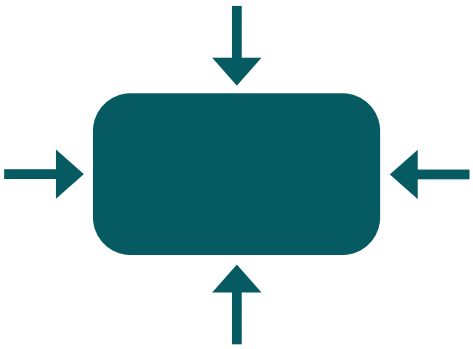
e-idos® products

PLUG AND PLAY SOLUTION



ENERGY EFFICIENCY

COMPACT DESIGN



mèta

Variable speed pressure boosting system with integrated control

calpeda®

e-idos® products

Construction
Self-priming booster set with built in frequency converter.

MÈTA is a plug and play solution, the pump is equipped with an integrated pressure transducer, an integrated check valve and a built-in pressure vessel.

The VSD controls the start and stop of the pump and allows to keep a constant pressure.

Boosting sets with 2 pumps
Suction and delivery manifolds in stainless steel AISI 304.
Connections are located on the delivery manifold for the installation of one vessel G1 connection.

Applications
For water supply.
For domestic use, for garden use and irrigation.

Features
- integrated frequency converter
- built-in pressure vessel
- high efficiency asynchronous motor
- motor power control
- programmable re-start pressure
- no hydraulic losses due to the measuring devices
- voltage and current control
- monitoring of maximum starting current

EASY TO INSTALL
Plug And Play solution

ECONOMIC SAVING
High efficiency asynchronous motor

EASY TO USE
Equipped with a programmable software and, thanks to the analogic pressure sensor, the product allows to set the restart pressure.

Protections
- dry-run protection
- detects the presence of air in the pump casing
- overload control and overheating motor control
- pump blockage
- power supply control
- starts per hour control
- detects small leakages in the system

Operating conditions
Liquid temperature: 0 °C to +35 °C.
Ambient temperature up to +40 °C.
Maximum permissible pressure in the pump casing: 8 bar.
Continuous duty.

Materials

Component	Material
Pump casing	Cr-Ni steel 1.4301 EN 10088 (AISI 304)
Casing cover	Cr-Ni steel 1.4301 EN 10088 (AISI 304)
Pump Shaft	Cr-Ni steel 1.4305 EN 10088 (AISI 303)
Suction casing	PPO-GF20 (Noryl)
Stage casing	PPO-GF20 (Noryl)
Impeller	Cr-Ni steel 1.4301 EN 10088 (AISI 304)
Membrane	Butyl
Tank cover	POM - POLYACETAL
Membrane cap	POM - POLYACETAL
Non-return valve	POM - POLYACETAL
Plug	Cr-Ni steel 1.4305 EN 10088 (AISI 303)
Mechanical seal	Carbon - Ceramic - NBR

Motor
2-pole induction motor.
Nominal speed 4500 rpm
Motor: variable speed
Frequency: 50 Hz
Single-phase 220-240V~50Hz/220V~60Hz, with thermal protector.
Cable: H07RN8-F, 3G1,5 mm2, length 1,5 m, with plug CEIUNEL 47166.
Insulation class F.
Protection IP X4.
Constructed in accordance with: EN 60034-1; EN 60335-1, EN 60335-2-41.

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Variable speed pressure boosting system with integrated control

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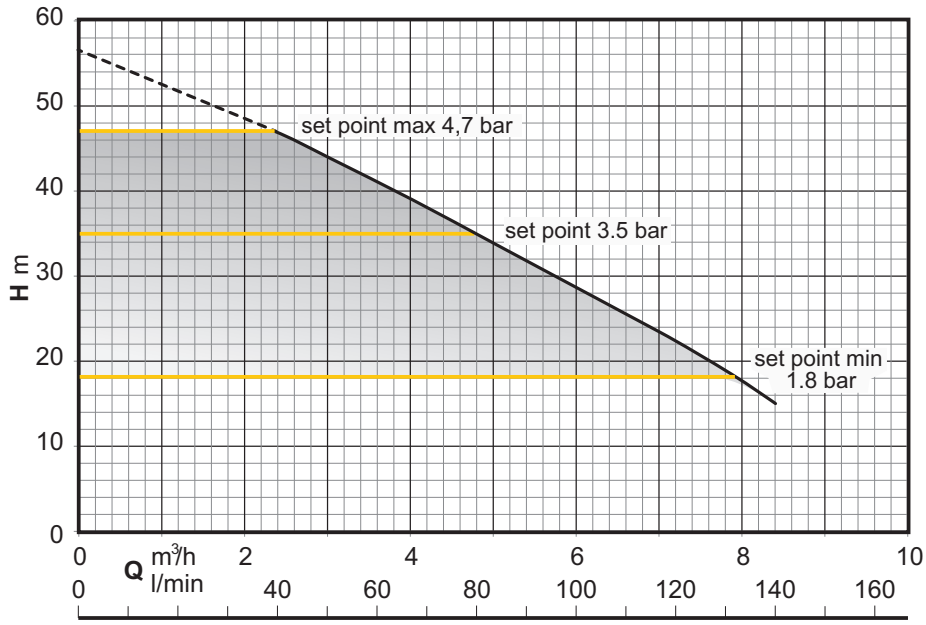
Performance n ≈ 4500 rpm

1 ~	230 V	P_1	Q m^3/h	0	2	3	4	5	6	6,5	7	8	8,4
	A	kW	l/min	0	33,3	50	66,6	83,5	100	108,3	116	133	140
MÉTA	5,9	1,35	**H** m	55	48	43,5	38,7	33,8	28,6	26	23,4	18,2	15

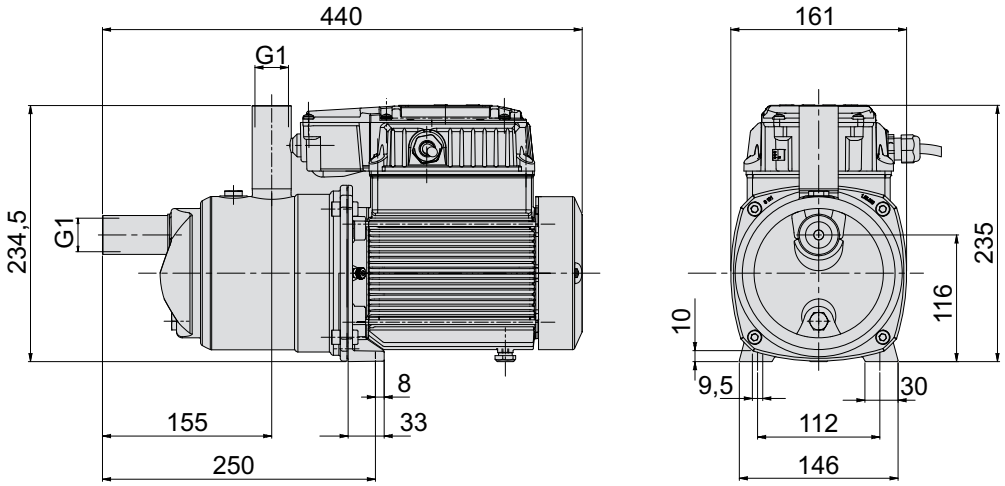
P_1 Max. power input. Test results with clean cold water, without gas content. Tolerances according to UNI EN ISO 9906:2012

Characteristic curves n ≈ 4500 rpm



Dimensions and weights

Net weight 12,4 kg
With cable length: 1,5 m



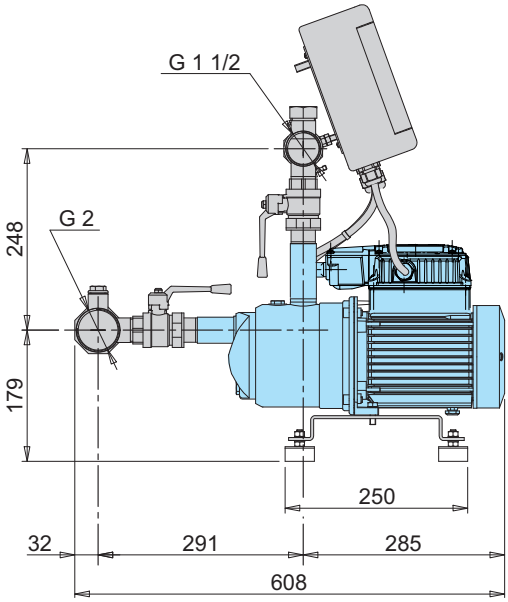
Performance n ≈ 4500 rpm

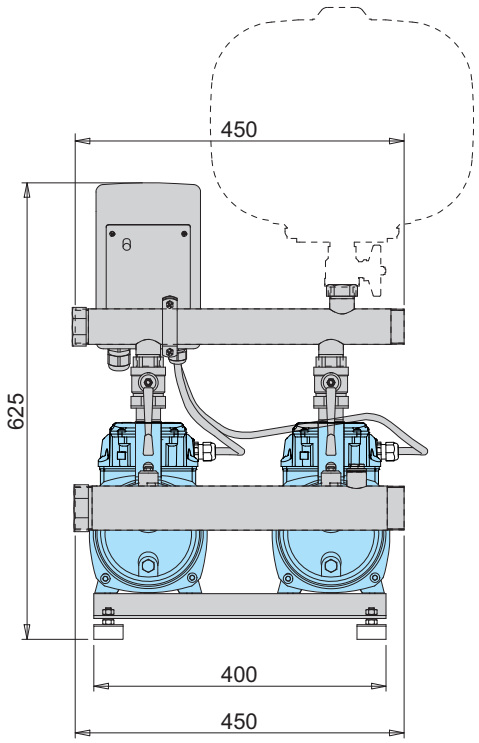
1 ~	230 V	P_1	Q m^3/h	0	4	6	8	10	12	13	14	16	16,8
	A	kW	l/min	0	66,6	100	133,2	166,6	200	216,6	233,3	266,6	280
BSM2V 2MÉTA	5,9x2	1,35x2	**H** m	55	48	43,5	38,7	33,8	28,6	26	23,4	18,2	15

P_1 Max. power input. Test results with clean cold water, without gas content. Tolerances according to UNI EN ISO 9906:2012

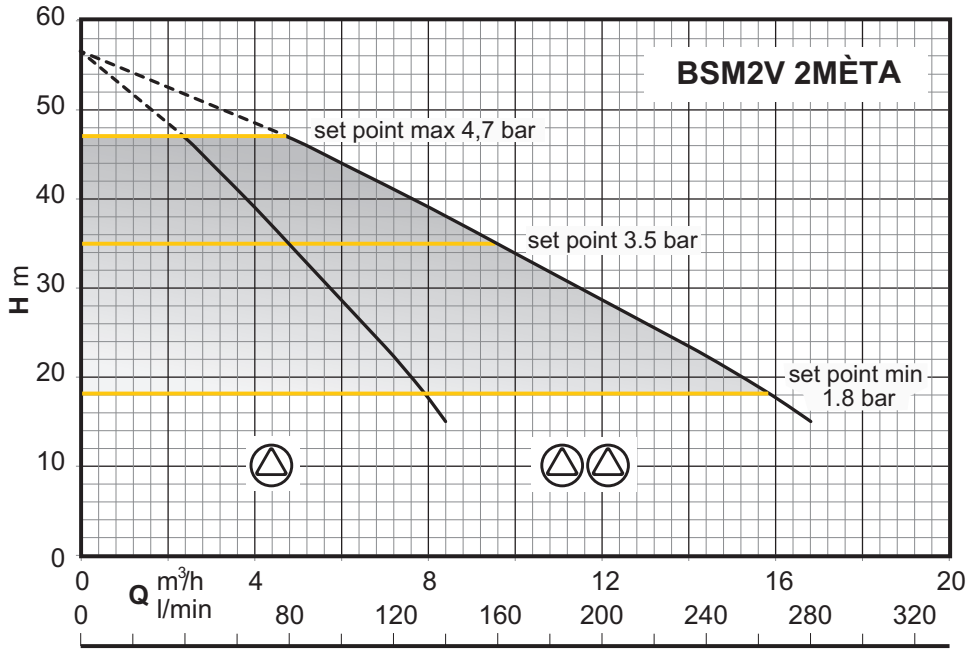
Dimensions and weights

Net weight 37 kg





Characteristic curves n ≈ 4500 rpm



Control Panel

They allow to visualize:
- Initial screen (rUn, OFF, StB, Err)
- Motor Operating Frequency
- Delivery pressure measured by the transducer
- Supply current input
- Supply electrical power input
- Supply voltage

think outside the box