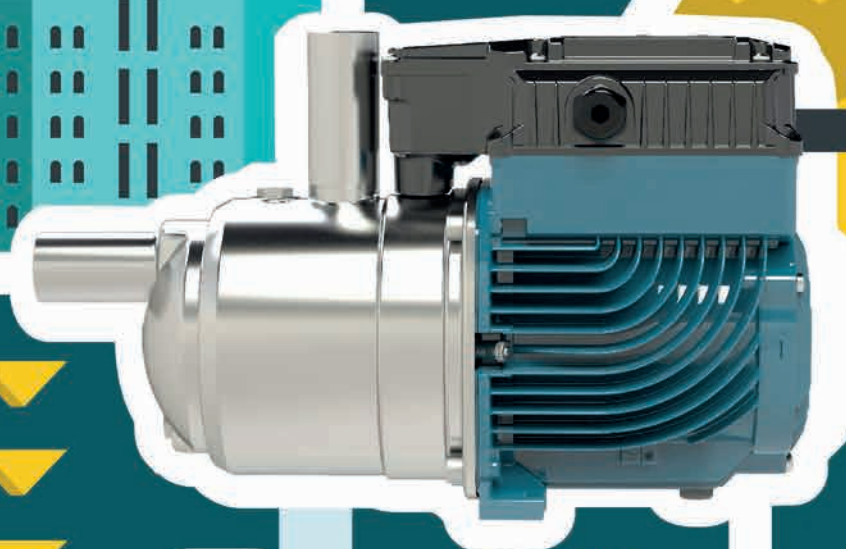


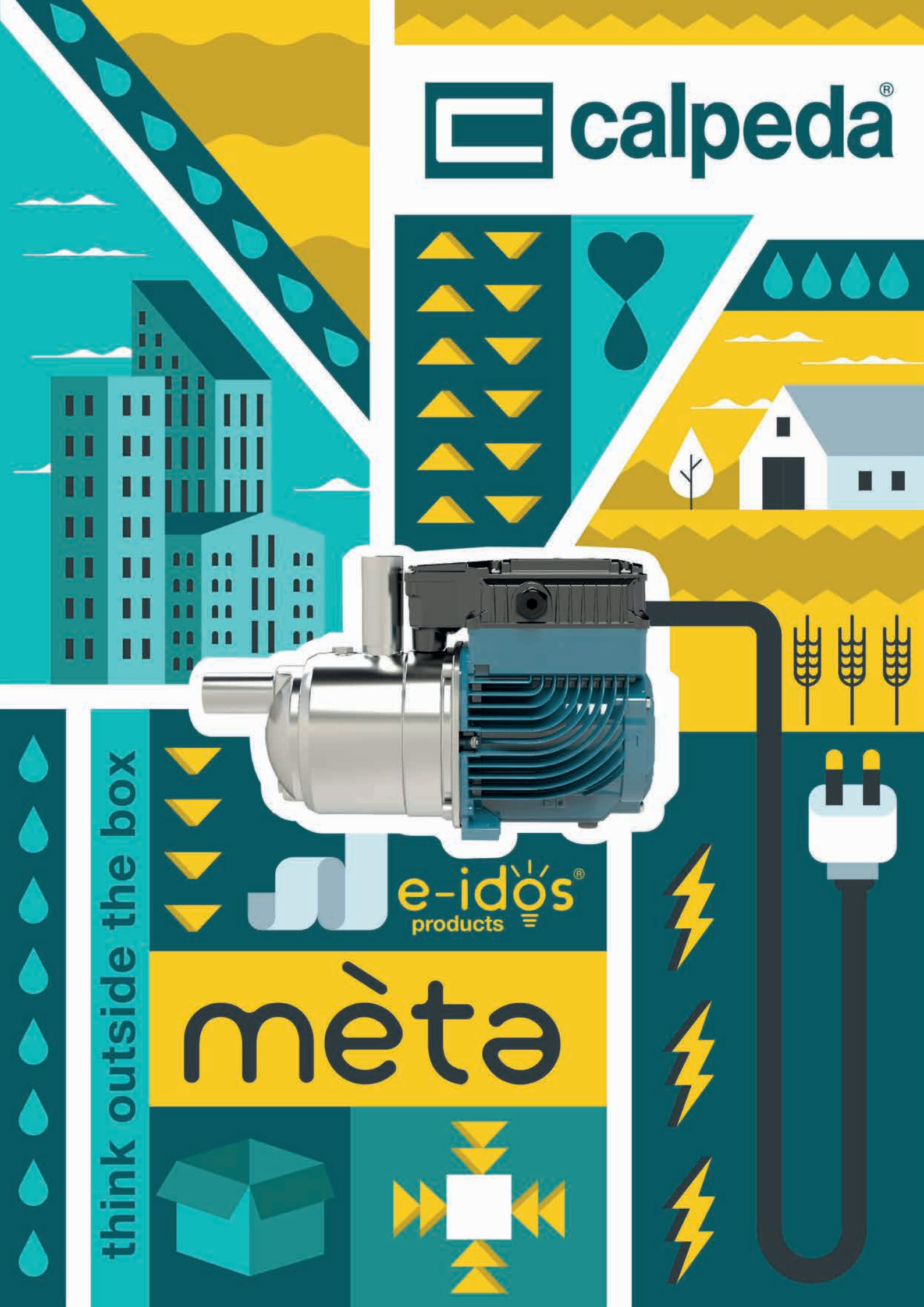
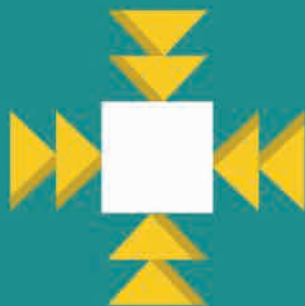
 calpeda®







think outside the box

 e-idos®
products

méta



SELECTION TABLE

	Mèta Small
	BSM2V 2 Mèta Small
	Mèta
	BSM2V 2 Mèta

Pag.

MAX. NUMBER OF FLOORS
▼

Small flat with one bathroom
6 

4

1
2
3

2
2
2

12

1
2
3
up to 6

9
8
7
6

18

1
2
3
up to 6

9
8
7
6

26

1
up to 3
4
5
6
up to 8

16
16
15
14
12
11

TECHNICAL DATA

- OPERATIONAL RANGE
- TYPE OF LIQUID
- LIQUID TEMPERATURE RANGE
- FACTORY SET POINT
- MAX. AMBIENT TEMPERATURE
- MAX. OPERATING PRESSURE
- IP PROTECTION
- INSULATION CLASS

The table is valid as an indication.
For a proper sizing of the product it is necessary an assessment of the actual installation.

DOMESTIC / CIVIL PRESSURE SYSTEM

IRRIGATION SYSTEM

Medium flat
with two bathrooms

10 

Large house
with two bathrooms
and garden

15 

SPRINKLER
4M RADIUS

Flow 6 l/min
Pressure: 2,4 bar

SPRINKLER
14M RADIUS

Flow 20 l/min
Pressure: 3,4 bar

Max. flat number

Max. sprinkler number

2

1

2

1

1

1

5

4

5

4

5

4

3

/

5

4

5

4

5

4

3

/

10

6

10

6

9

5

8

5

7

5

6

/

8

/

16

4

16

4

/

7

Mèta Small

Mèta

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

flow up to 140 l/min; head up to 55m

clean water (no solids)

from 0°C to +35°C

from 0°C to +35°C

3.5 Bar

3.5 Bar

+40°C

+40°C

8 bar (800kPa)

8 bar (800kPa)

IPX4

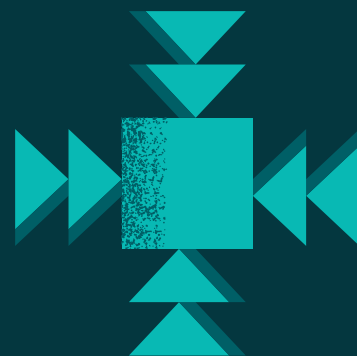
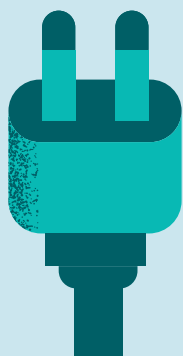
IPX4

F

F

mèta

small



**Plug and Play
Solution**

**Energy
Efficiency**

**Compact
Design**



Fan less more fun

Self priming booster set
easy to install and **plug and play**

Equipped with a **built-in frequency converter**
a pressure sensor on the discharge side,
a built-in pressure vessel in the pump casing
and a non-return valve on the suction side

**Mèta small is equipped with an
asynchronous motor without ventilation**

Energy Efficiency Index

EEI 0.42

variable speed

application



**domestic
booster set**

**irrigation
system**



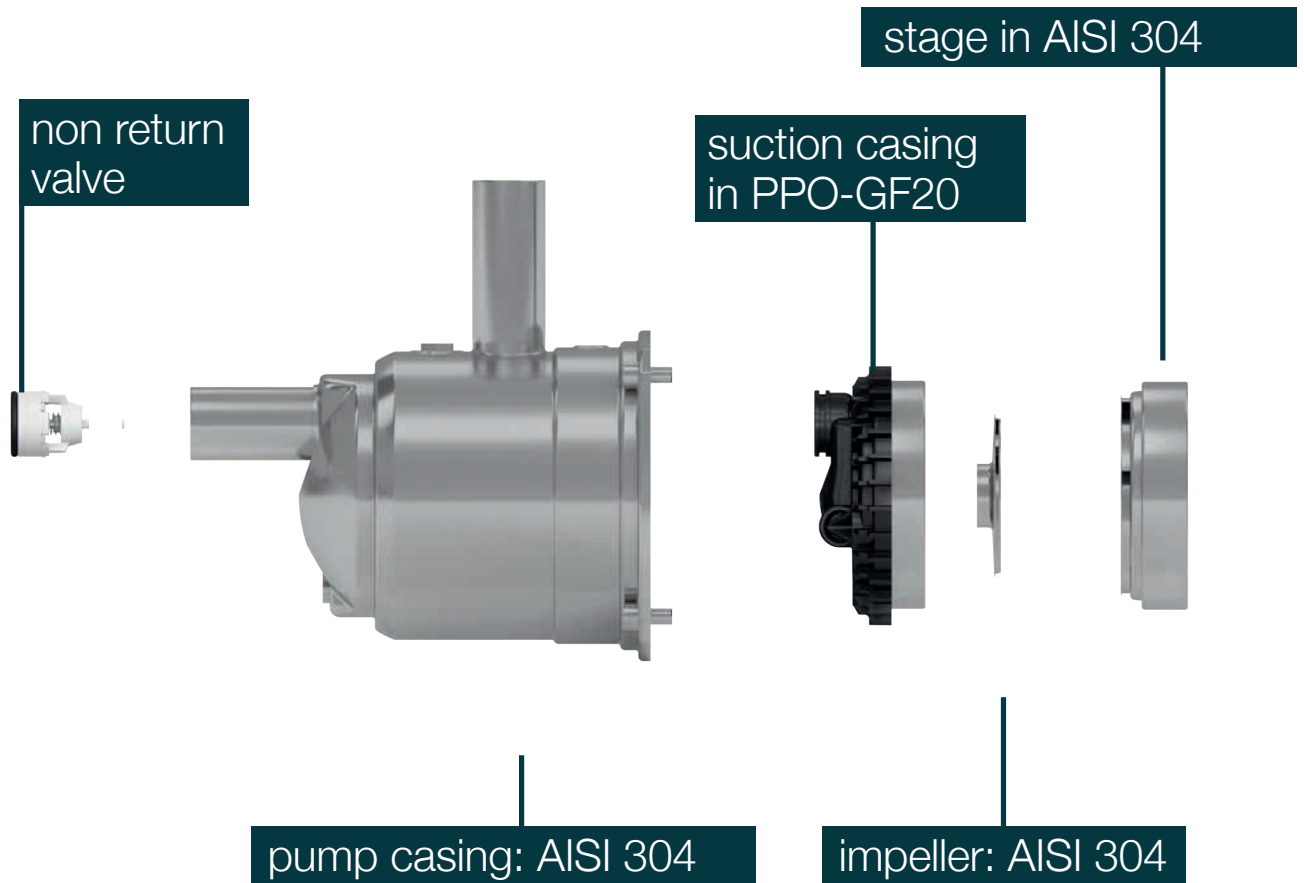
**residential
booster set**



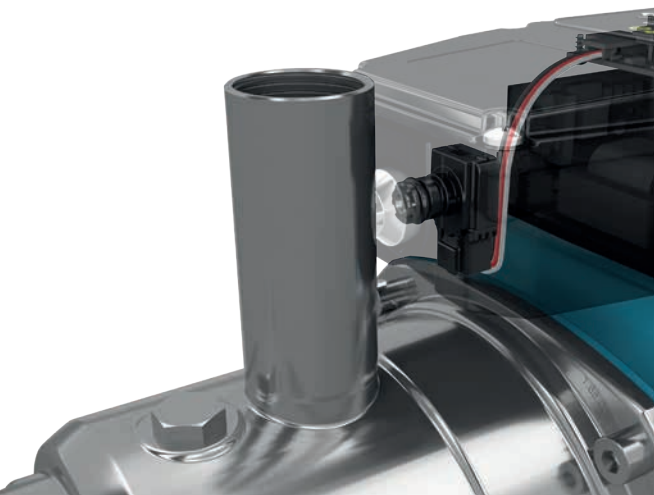
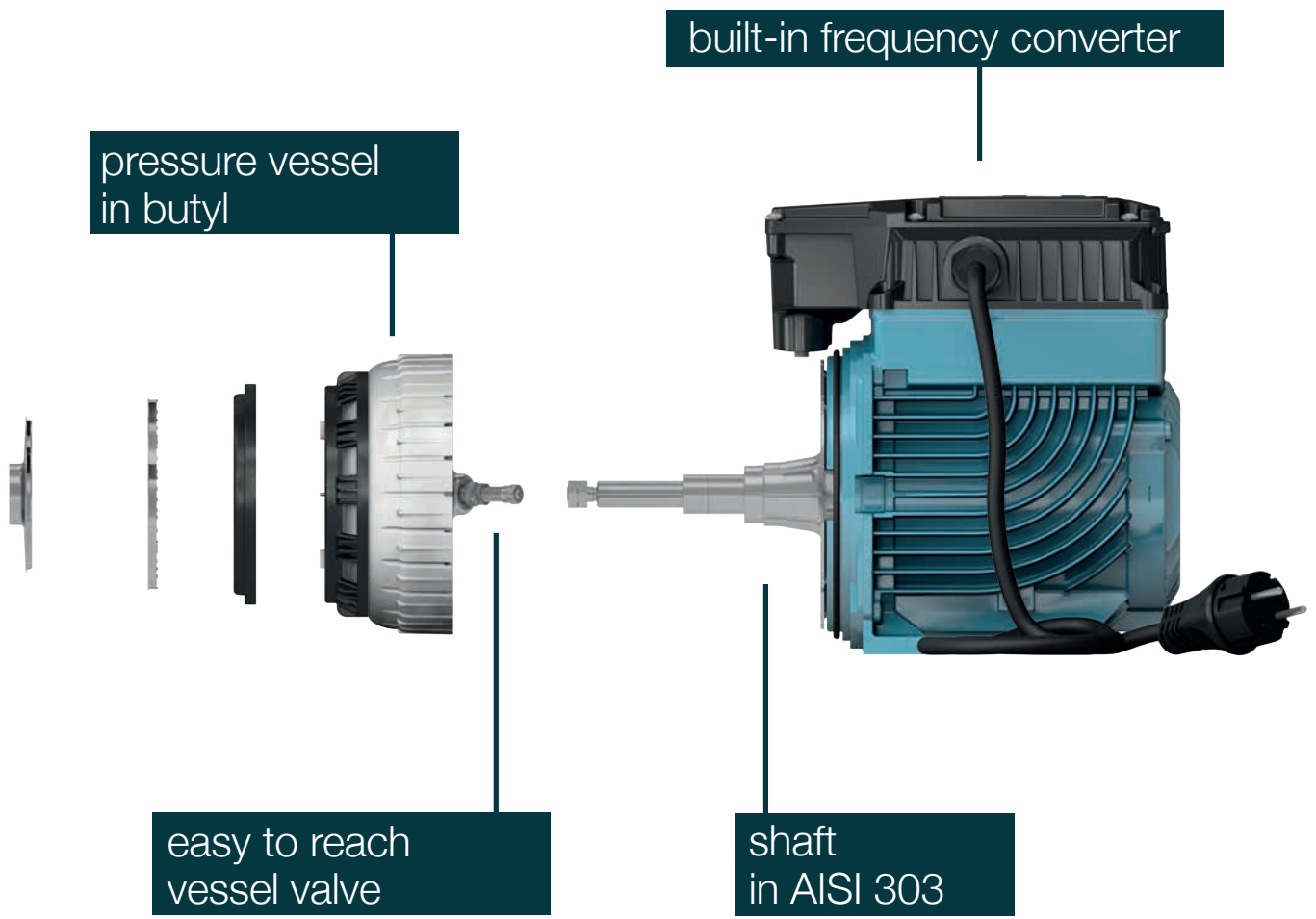
features

- fanless design
- built-in frequency converter
- built-in pressure vessel
- constant pressure
- high efficiency asynchronous motor
- motor power control
- no hydraulic losses due to measuring devices
- voltage and current control
- monitoring of the maximum starting current

easy to inspect and maintain



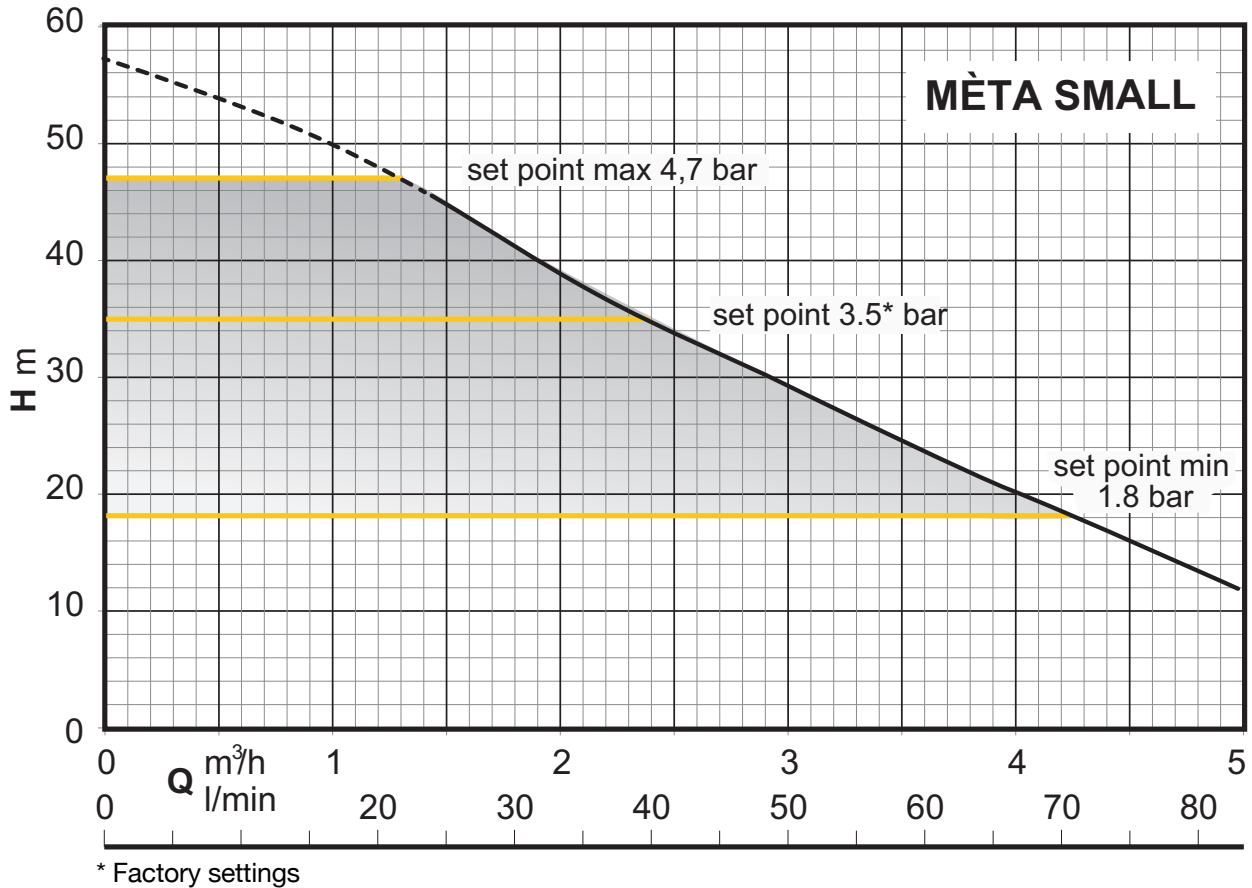
**non return
valve on the
suction side**



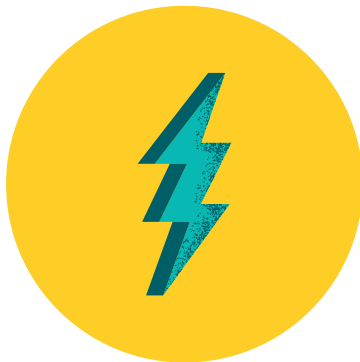
built-in frequency converter

- constant pressure
- variable speed
- energy efficiency

protections



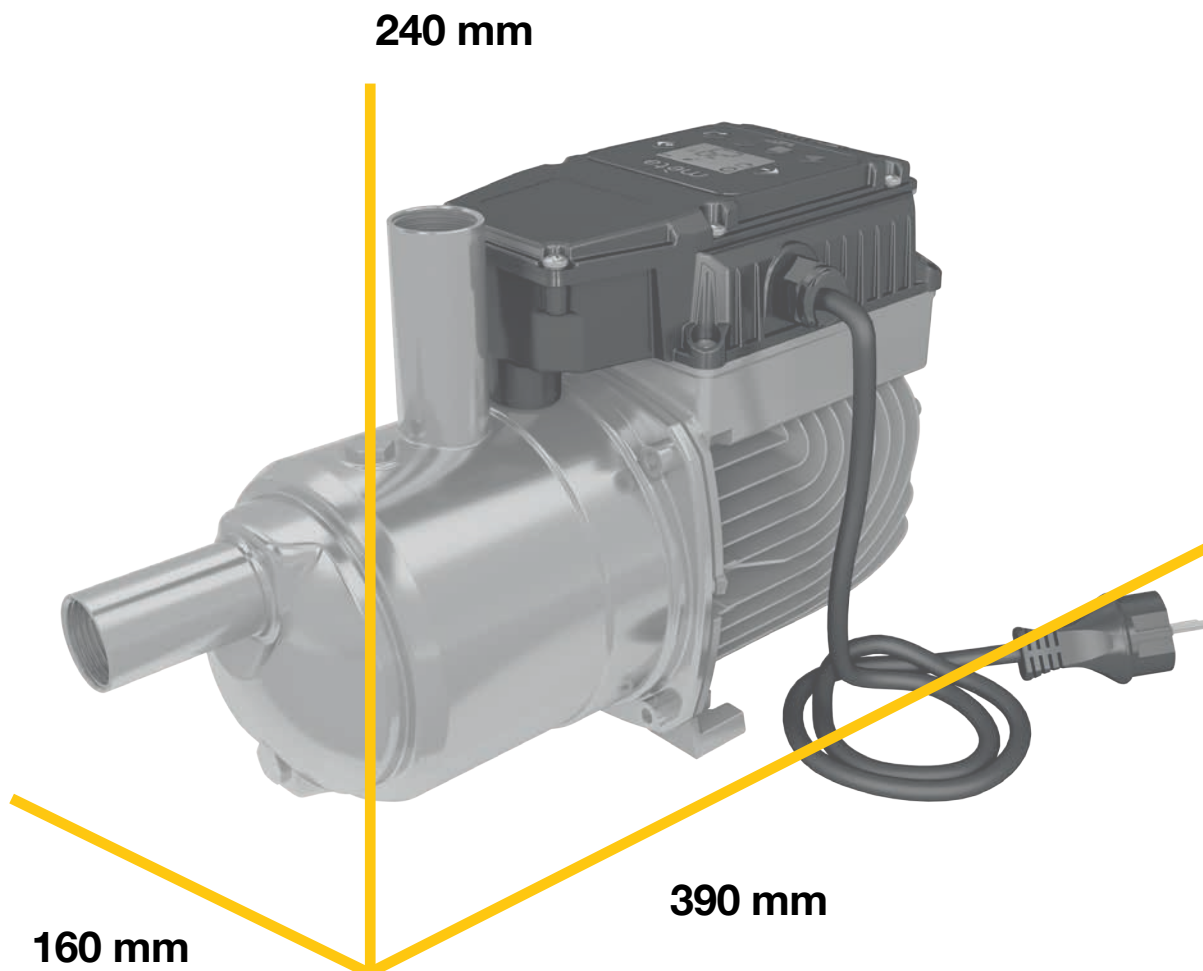
Energy saving



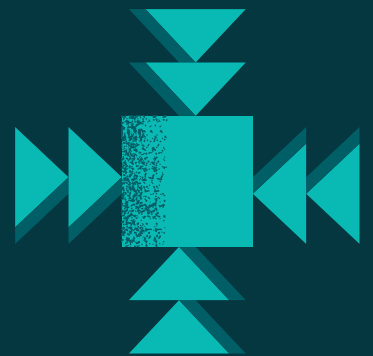
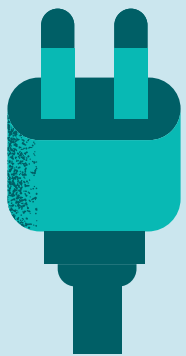
450Wh

**Up to 450Wh
compared to a traditional solution**

dimensions



the most compact



**Plug and Play
Solution**

**Energy
Efficiency**

**Compact
Design**



twice outside the box

2 pumps meta booster set

Thanks to a **patented software** the booster set guarantees the changeover of the 2 pumps without any connections

Energy Efficiency Index

EEI 0.34

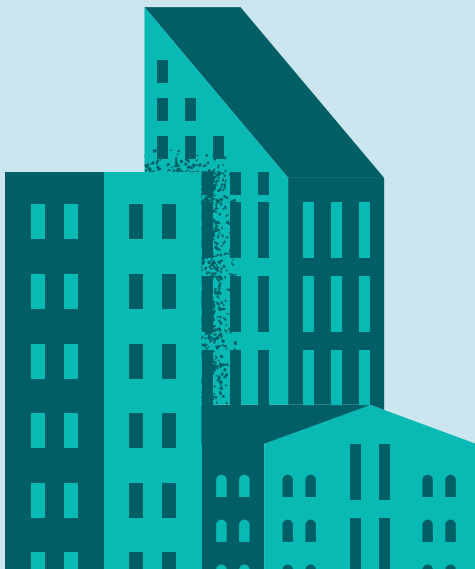
variable speed

application



**domestic
booster set**

**irrigation
system**



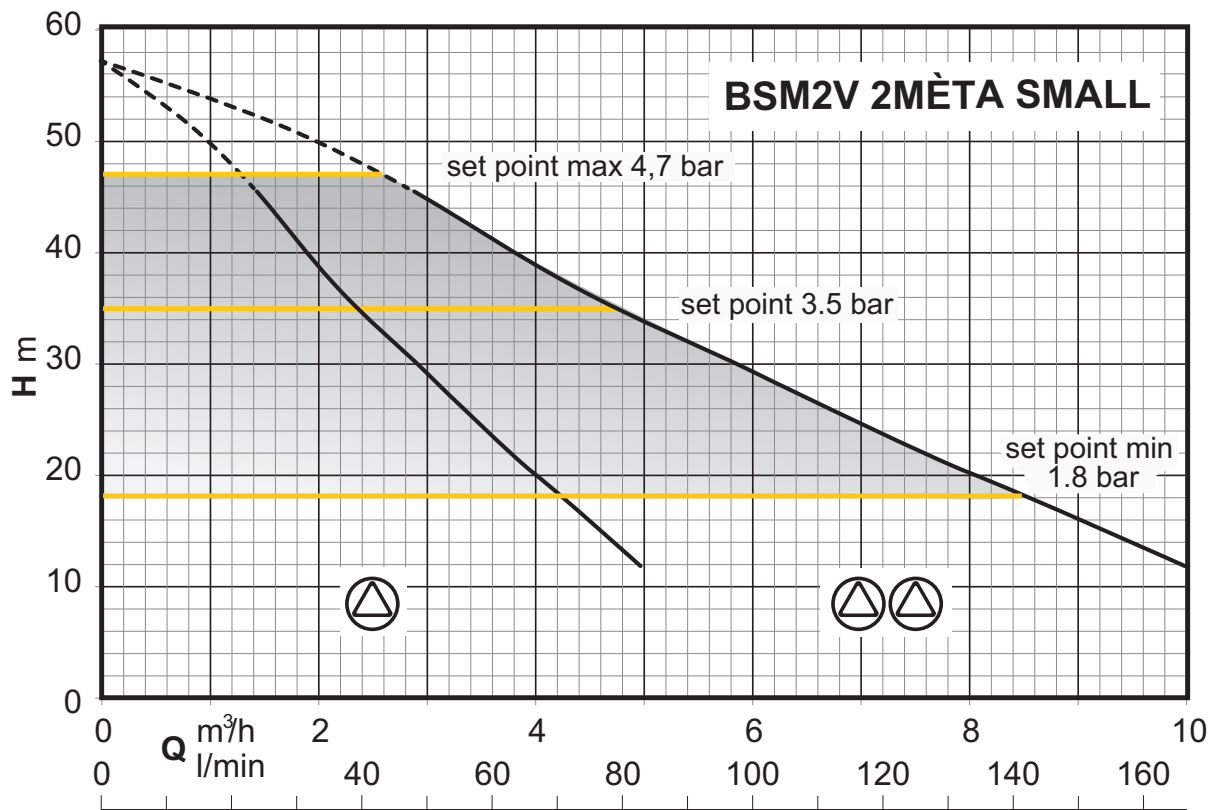
**residential
booster set**



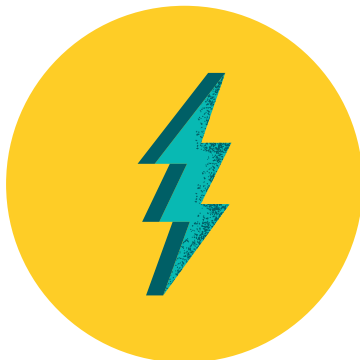
features

- compact construction
- pumps changeover
- constant pressure
- high efficiency asynchronous motor
- motor power control
- no hydraulic losses due to measuring devices
- voltage and current control
- monitoring of the maximum starting current

performance



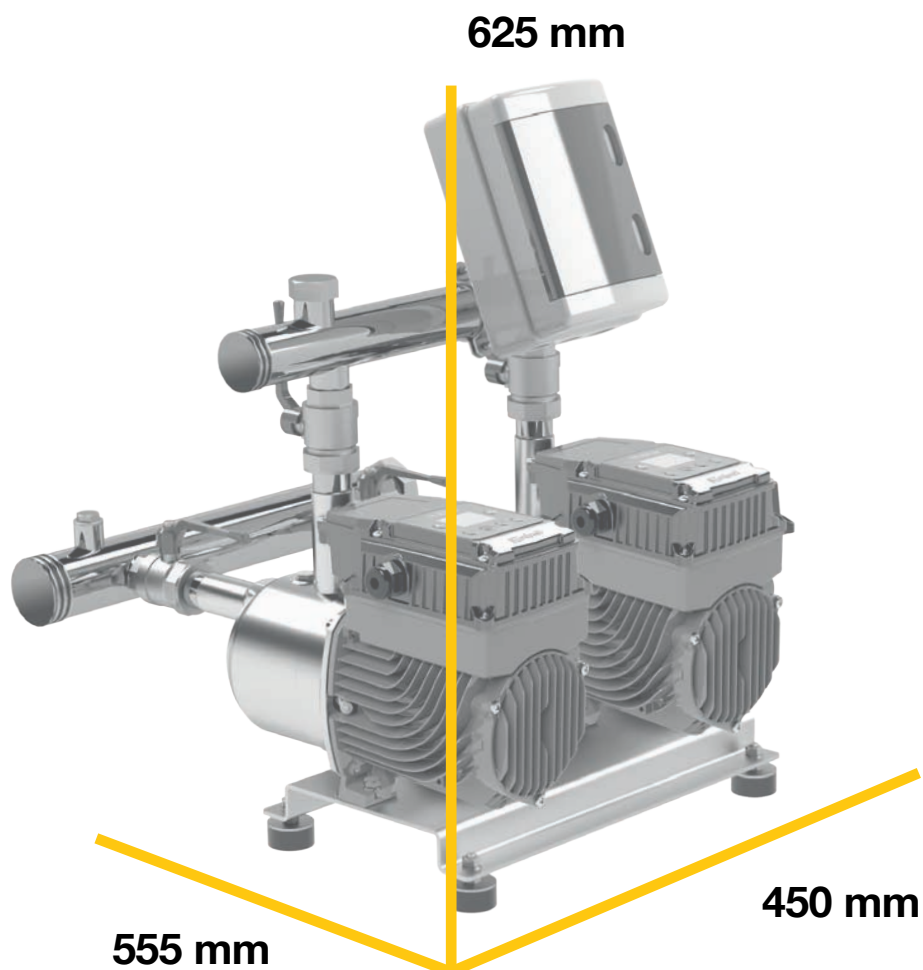
Energy saving



520Wh

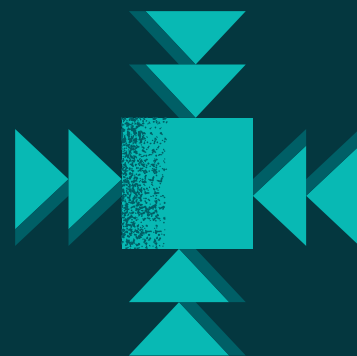
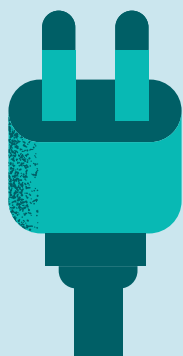
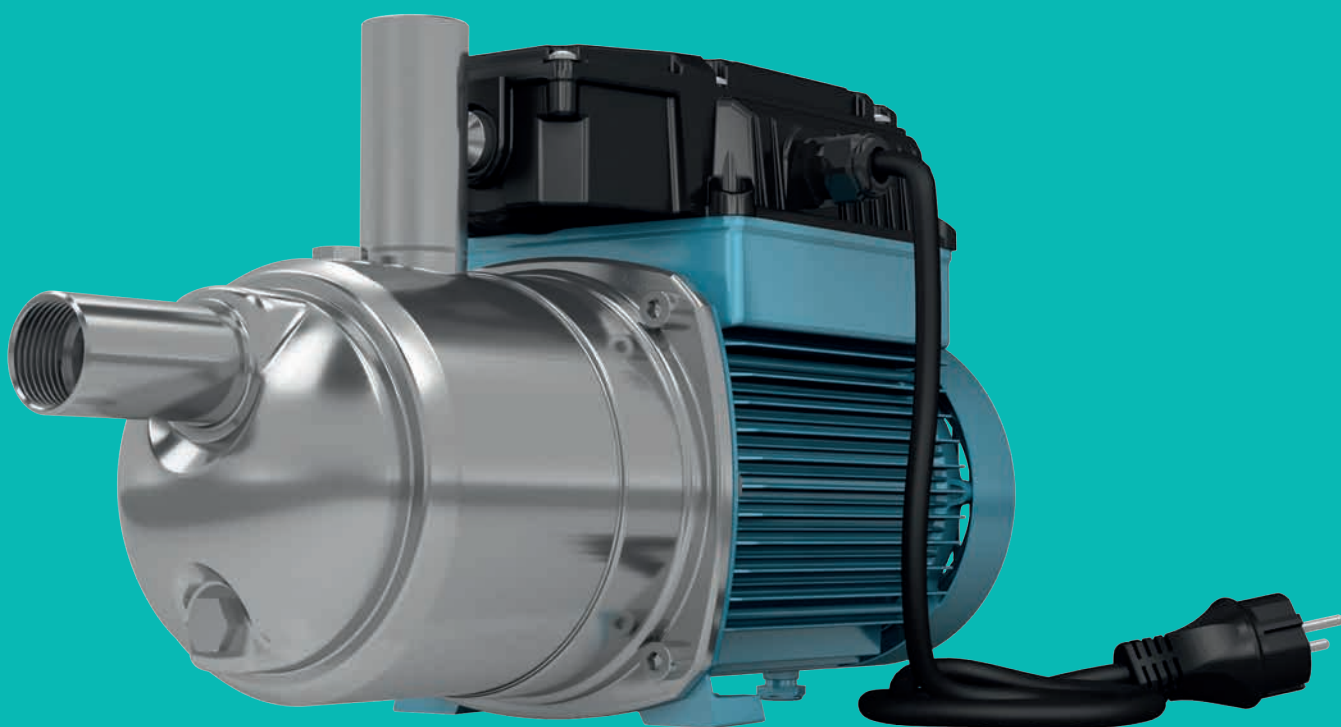
**Up to 520Wh
compared to a traditional solution**

dimensions



**2 mèta small
booster set**

méta



**Plug and Play
Solution**

**Energy
Efficiency**

**Compact
Design**



think outside the box

Self priming booster set
easy to install and **plug and play**

Equipped with a **built-in frequency converter**
a pressure sensor on the discharge side,
a built in pressure vessel in the pump casing
and a non return valve on the suction side

Energy Efficiency Index

EEI 0.55

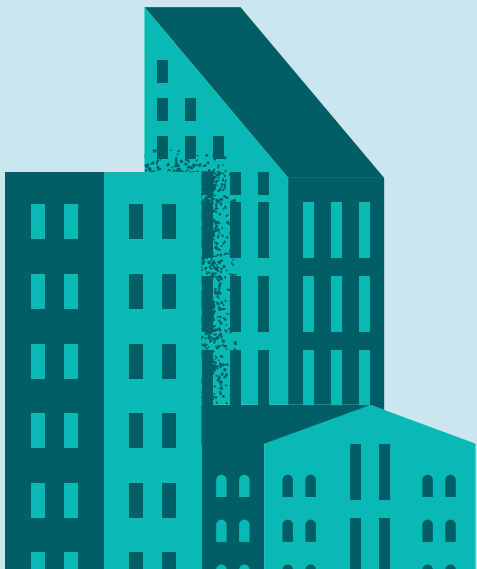
variable speed

application

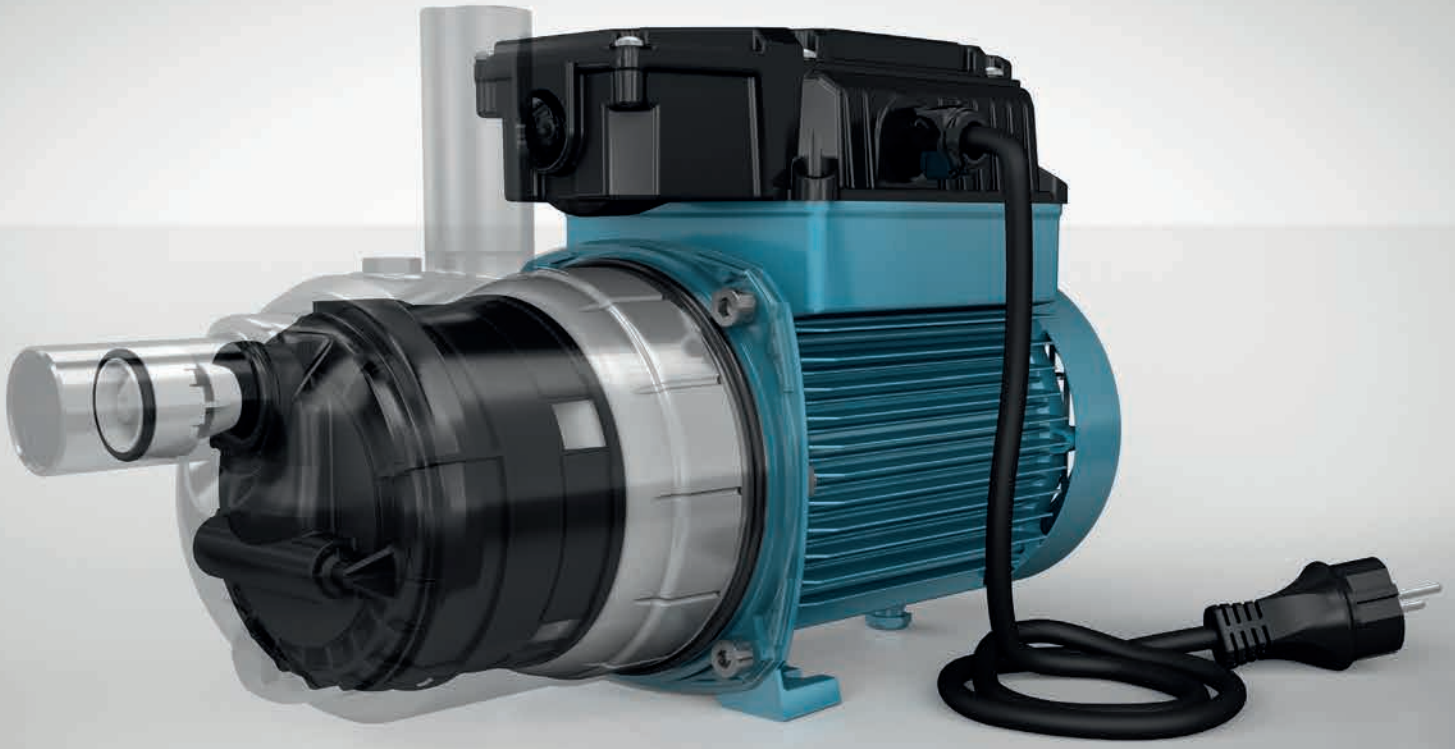


**domestic
booster set**

**irrigation
system**



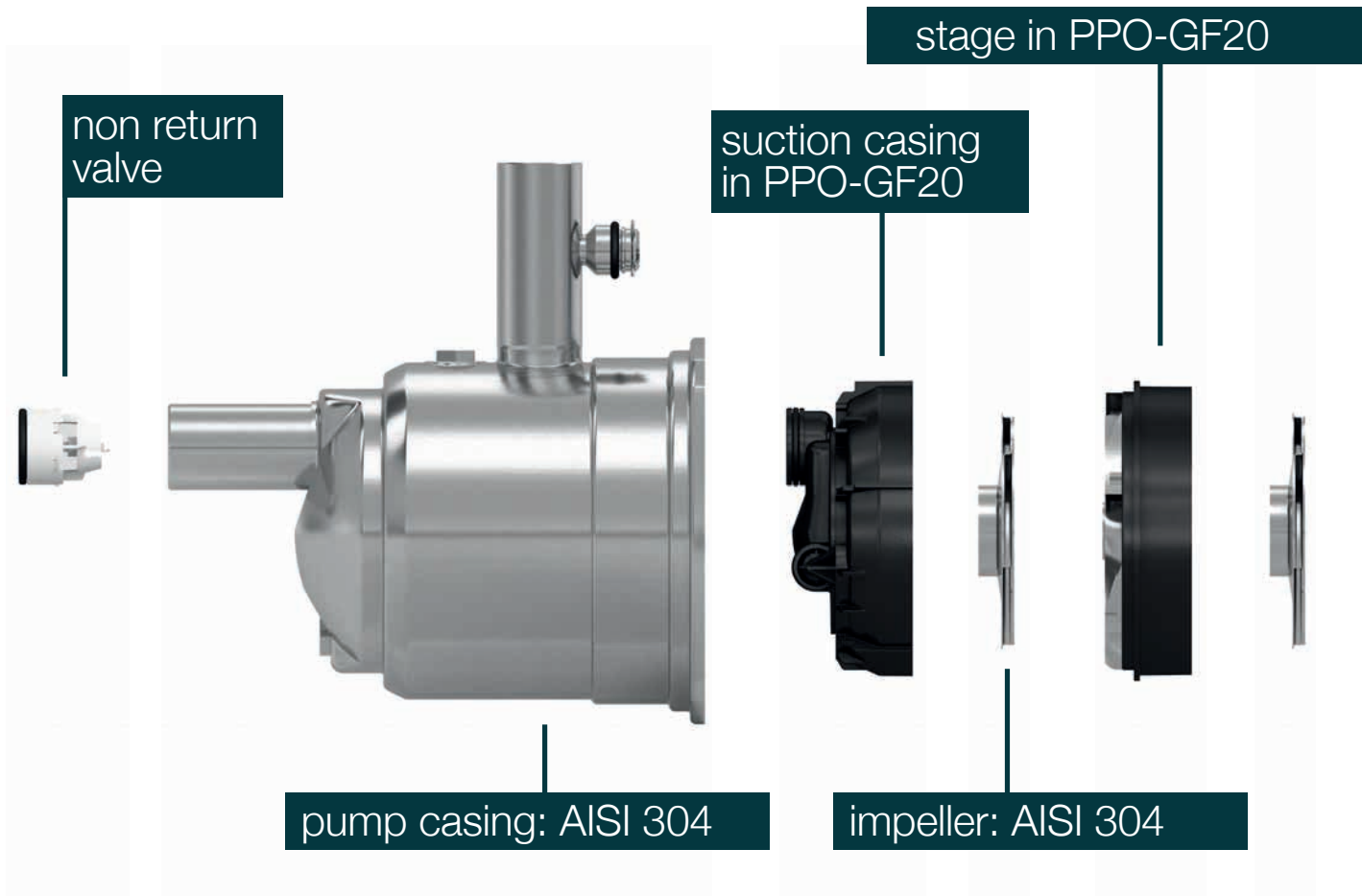
**residential
booster set**



features

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

easy to inspect and maintain



non return valve on the suction side

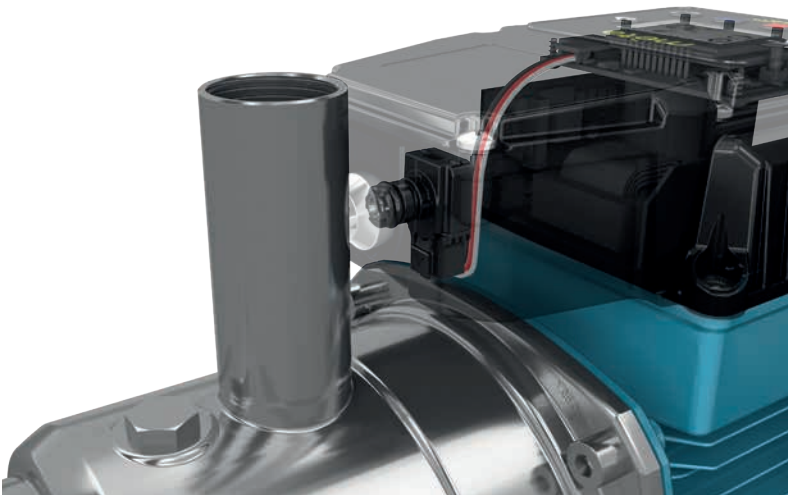
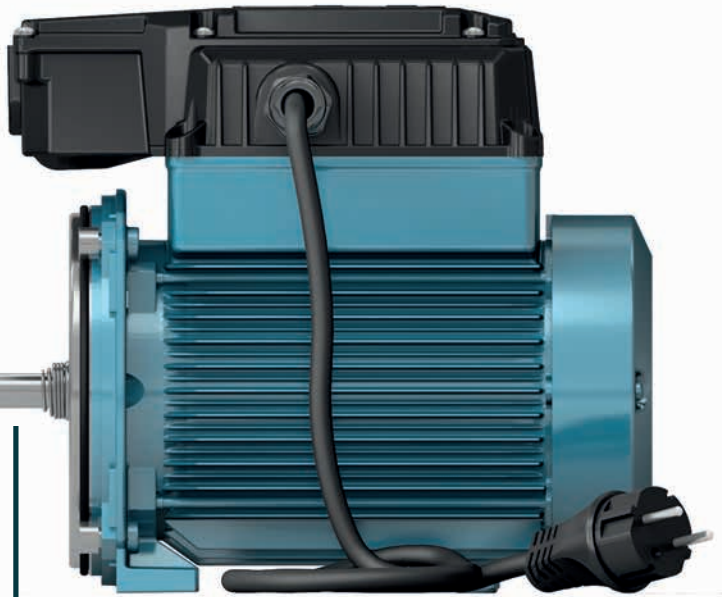


built-in frequency converter

pressure vessel
in butyl

easy to reach
vessel valve

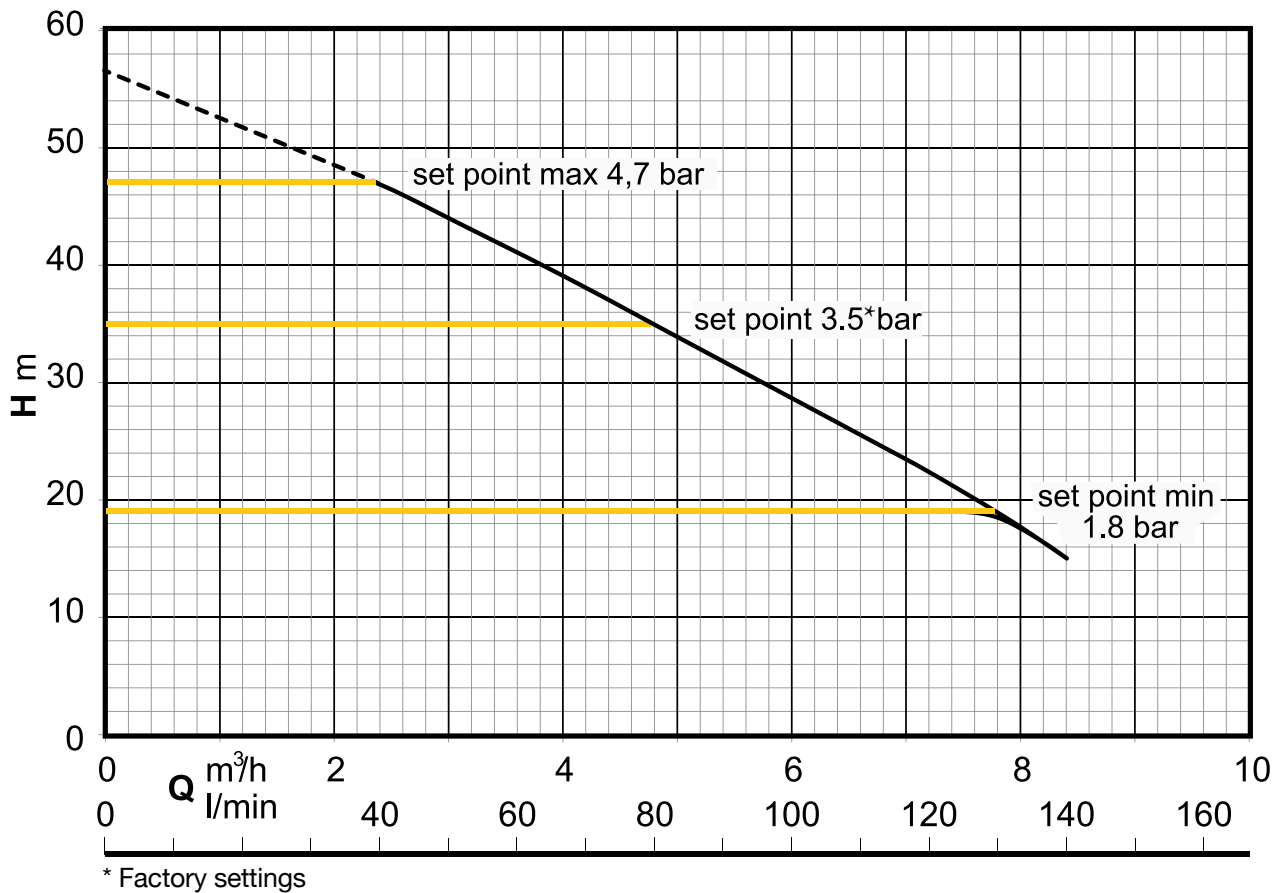
shaft
in AISI 303



built-in frequency converter

- constant pressure
- variable speed
- energy efficiency

performance



Energy saving

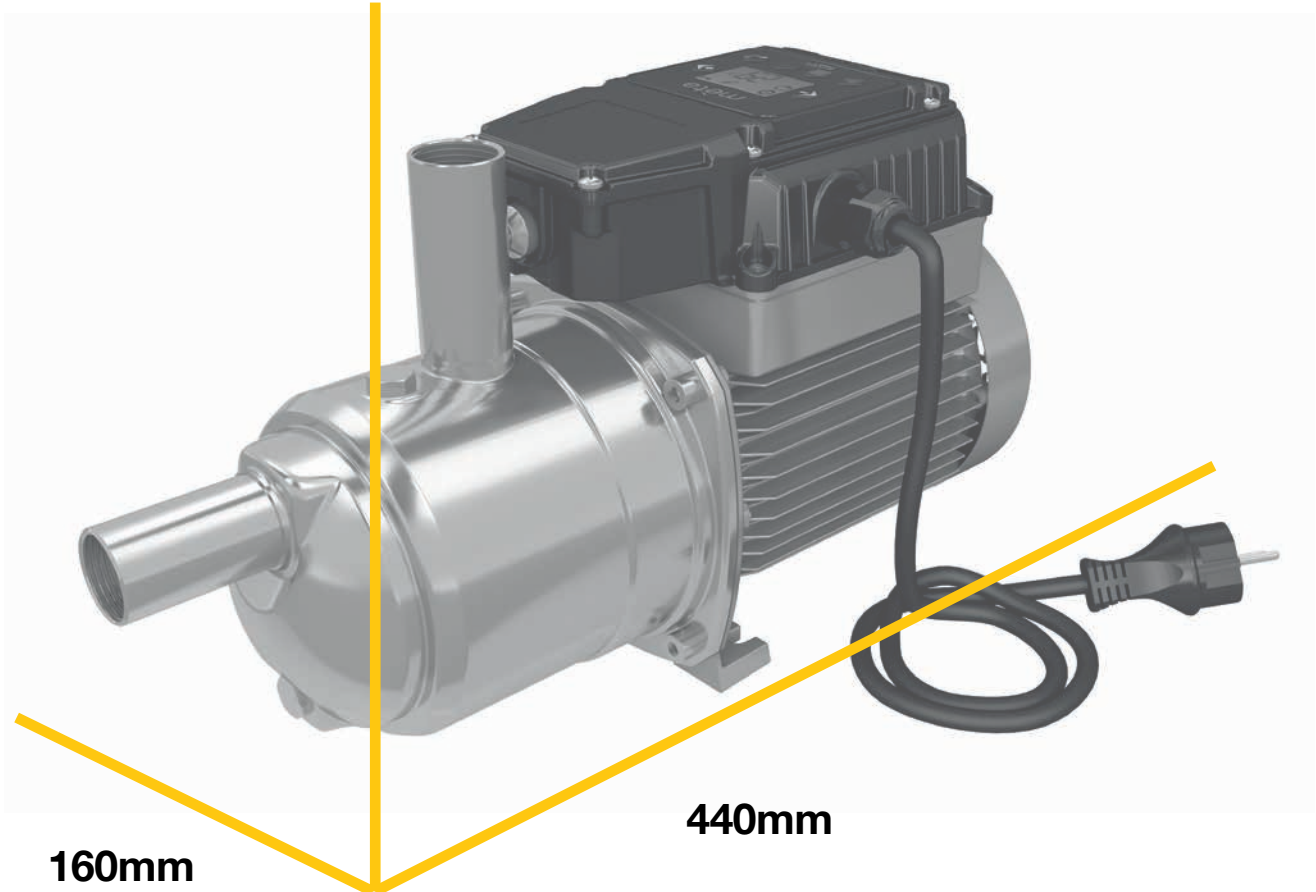


300Wh

**Up to 300Wh
compared to a traditional solution**

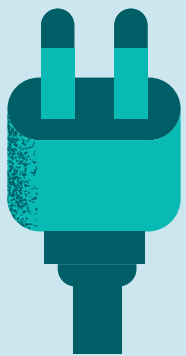
dimensions

240mm



160mm

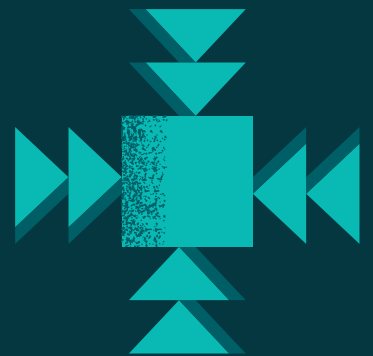
440mm



**Plug and Play
Solution**



**Energy
Efficiency**



**Compact
Design**



twice outside the box

2 pumps meta booster set

Thanks to a **patented software** the booster set guarantees the changeover of the 2 pumps without any connections

Energy Efficiency Index

EEI 0.46

variable speed

application



**domestic
booster set**

**irrigation
system**



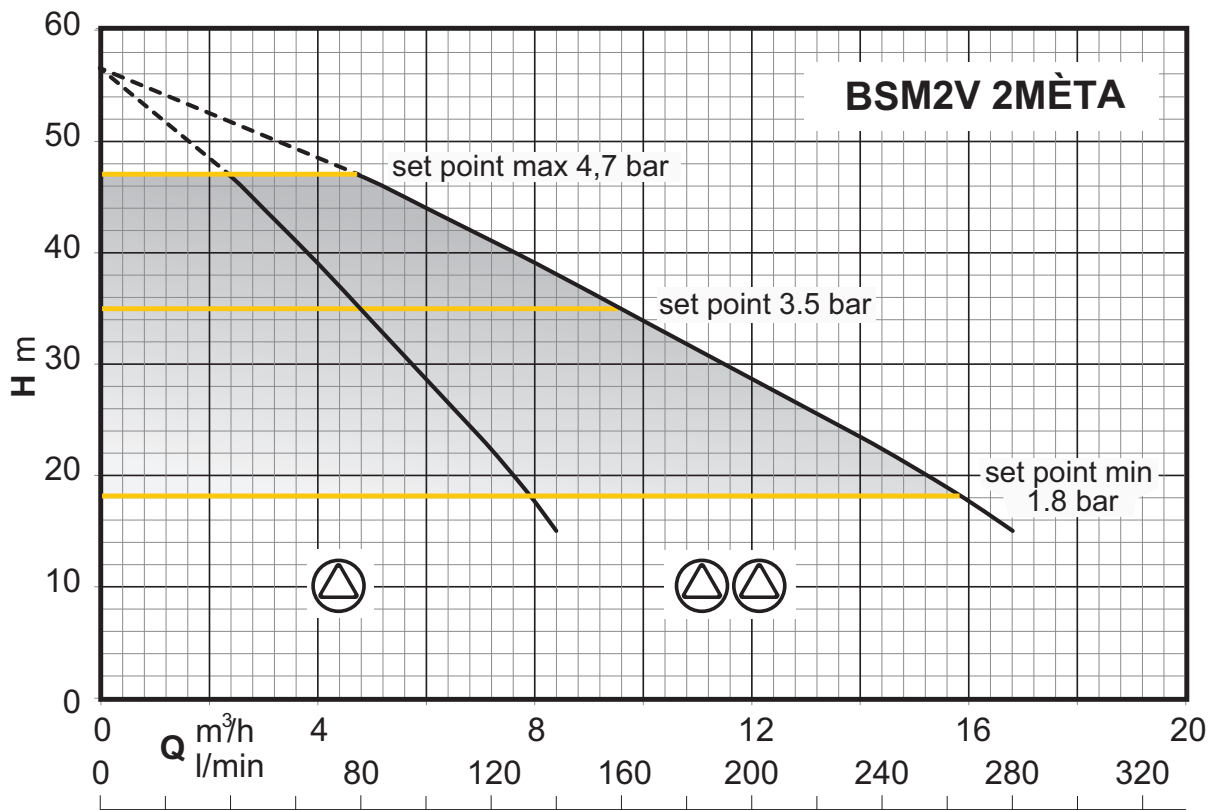
**residential
booster set**



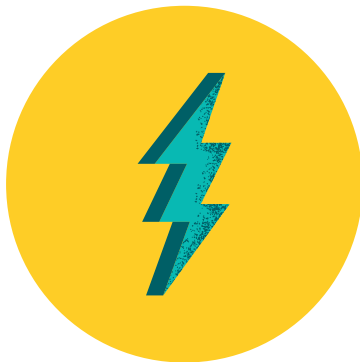
features

- compact construction
- pumps changeover
- constant pressure
- high efficiency asynchronous motor
- motor power control
- no hydraulic losses due to measuring devices
- voltage and current control
- monitoring of the maximum starting current

performance



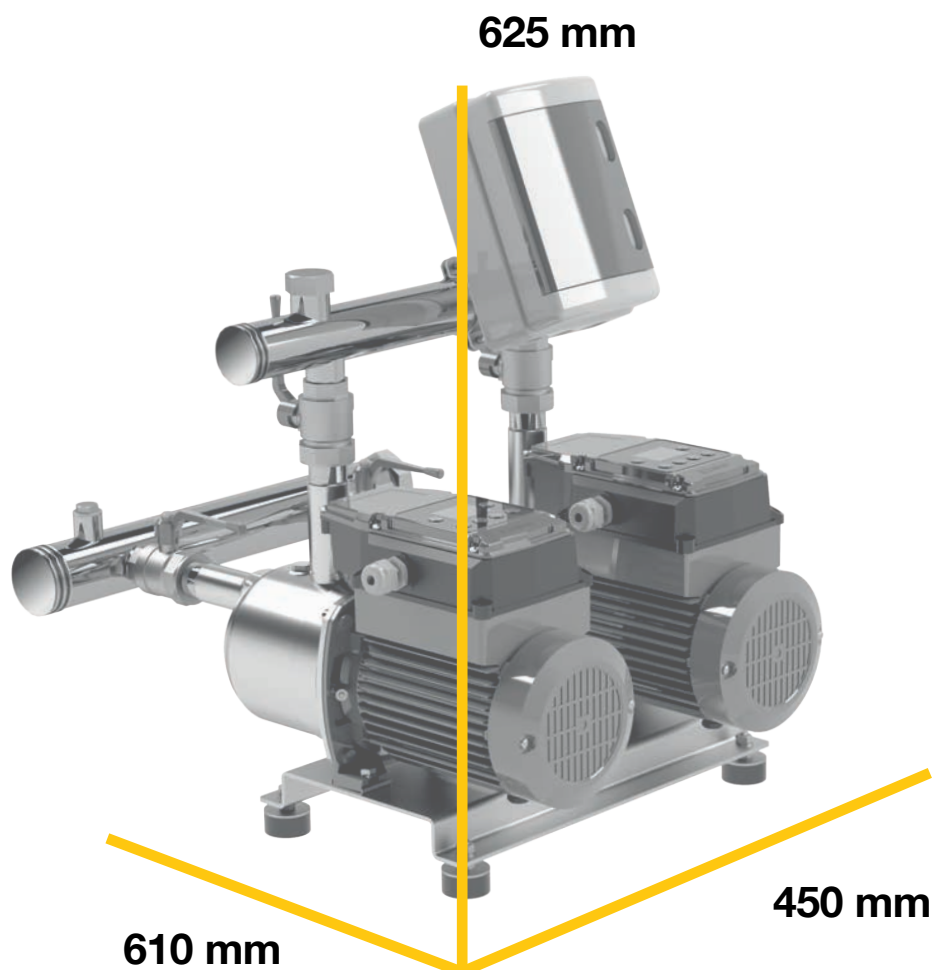
Energy saving



400Wh

**Up to 400Wh
compared to a traditional solution**

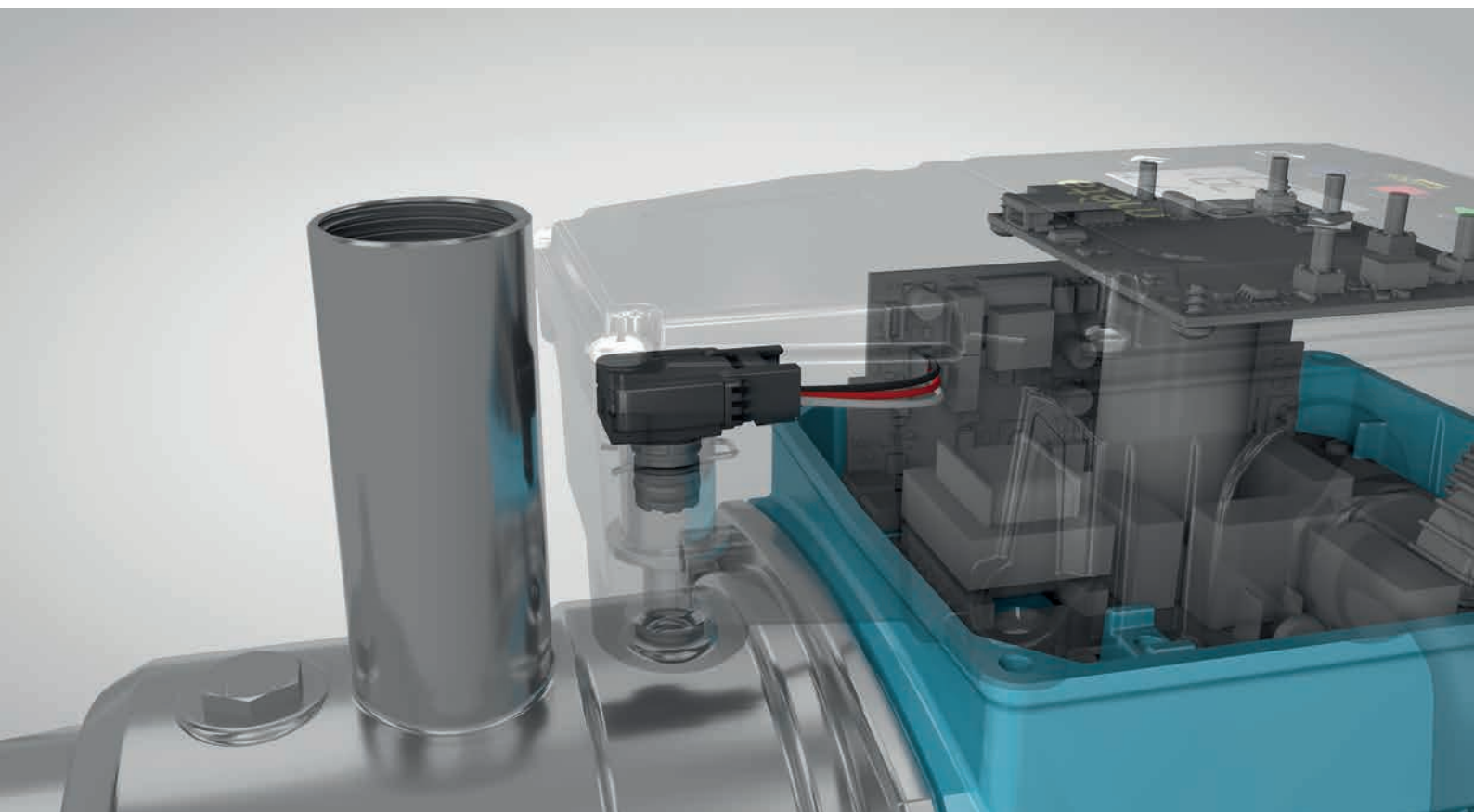
dimensions



**2 mèta
booster set**

protections

- dry-run protection
- presence of air in the pump casing detection
- motor temperature control
- pump blockage control
- overcurrent protection
- power supply control
- small leakages detect
- flow rate control



interface



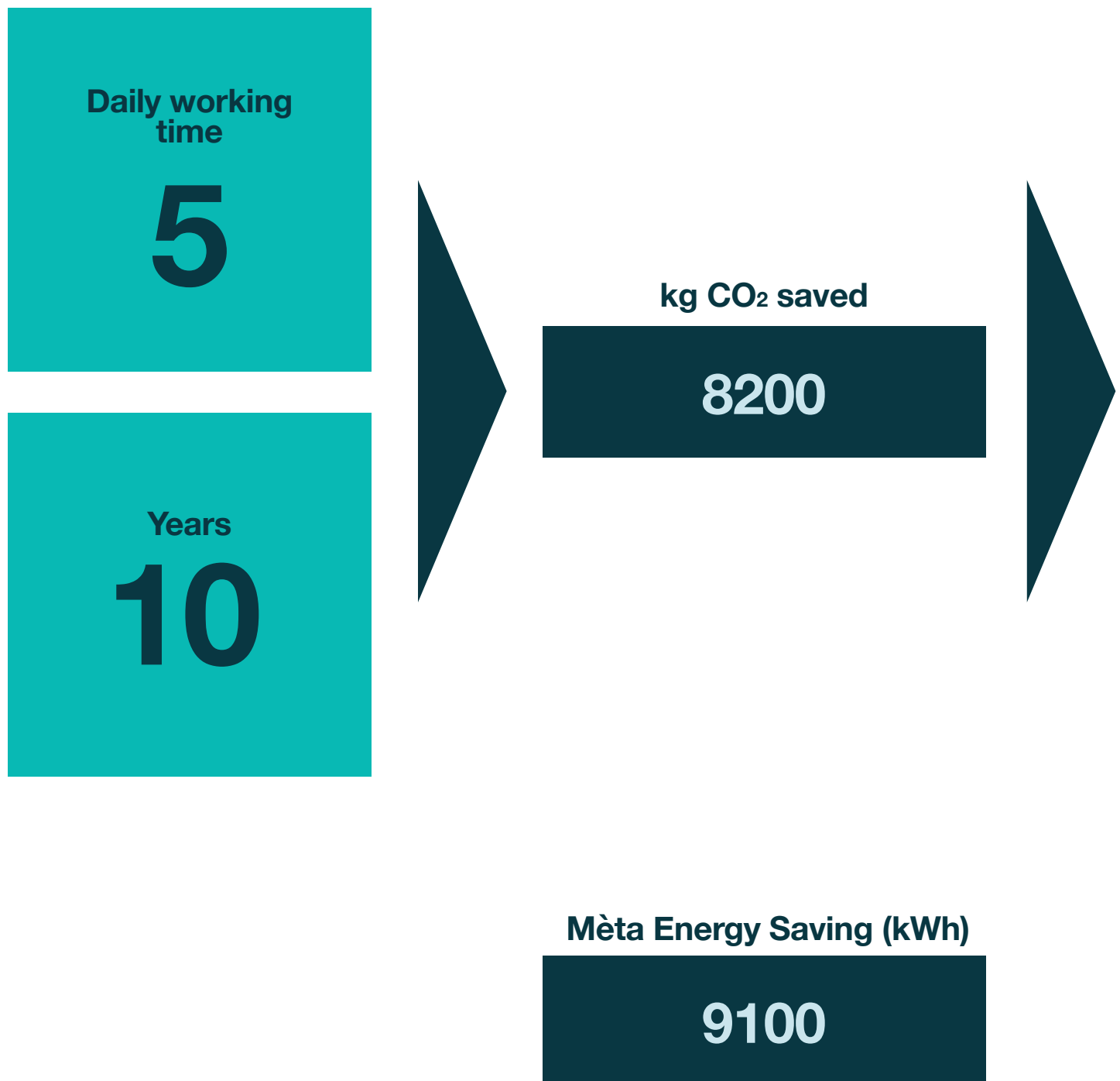
SIMPLE AND INTUITIVE

it allows to visualize:

- initial screen (rUn, OFF, Stb, Err)
- delivery pressure
- voltage supply
- electrical power input supply
- operating motor frequency
- current consumption control

INPUT

OUTPUT



Calculation based on mèta small

OUTPUT



Energy cost: 0.2 € / kWh

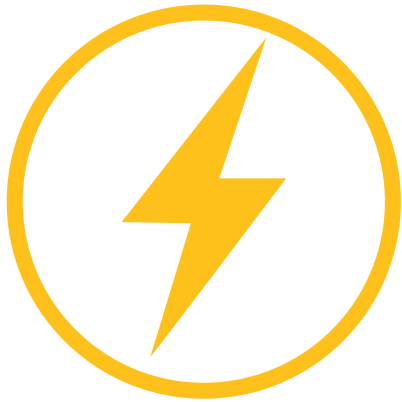


water passion

Calpeda S.p.A.
Via Roggia di Mezzo, 39
36050, Montorso Vicentino
Vicenza (Italy)
Tel. +39 0444476476
Web: www.calpeda.com
e-mail: info@calpeda.it

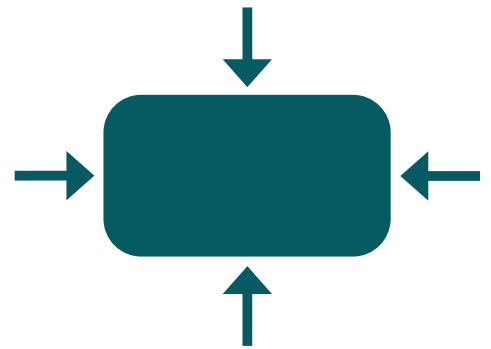
e-idös®
products 

**PLUG AND PLAY
SOLUTION**



**ENERGY
EFFICIENCY**

**COMPACT
DESIGN**



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.

Applications

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

Features

- integrated frequency converter
- built-in pressure vessel
- high efficiency asynchronous single-phase 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

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.

Motor

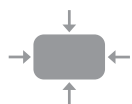
2-pole induction motor.
Nominal speed 4500 rpm
Motor: variable speed
Frequency: 50 Hz
Single-phase 220-240V~50Hz/220V~60Hz, with thermal protector.
Cable: H07RN8-F, 3G1,5 mm², length 1,5 m, with plug CEIUNEL 47166.
Insulation class F.
Protection IP X4.
Constructed in accordance with: EN 60034-1;
EN 60335-1,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



EASY TO INSTALL
Plug And Play solution



ECONOMIC SAVING
IE4 high efficiency asynchronous single-phase motor
Up to 400W less energy consumption compared to a standard solution



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

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	Chrome steel 1.4104 EN 10088 (AISI 430)
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

Performance $n \approx 4500$ rpm

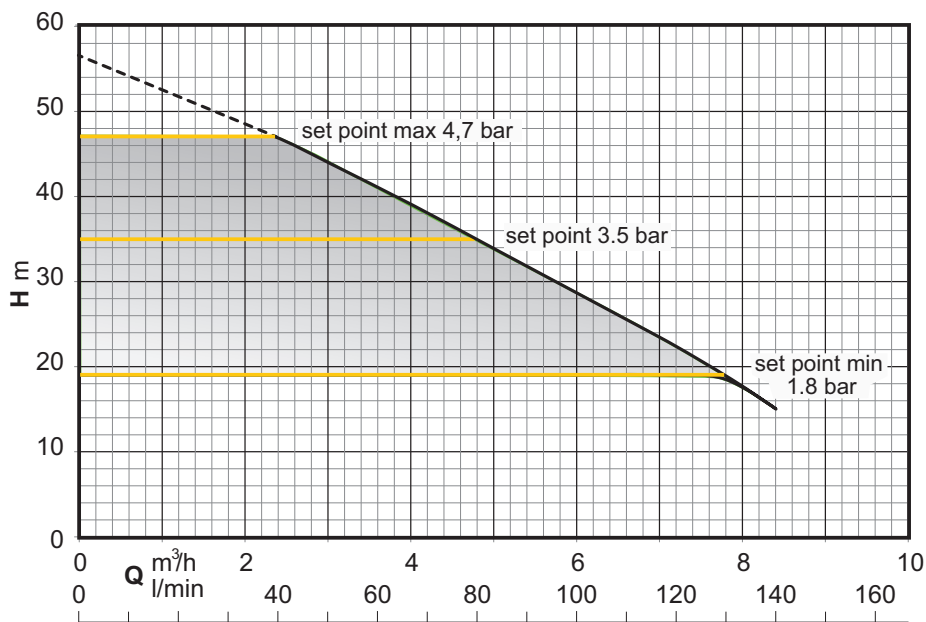
1 ~	230 V	P ₁	Q	0	2	3	4	5	6	6,5	7	8	8,4	
				0	33,3	50	66,6	83,5	100	108,3	116	133	140	
MÉTA	A	kW	l/min	H m	55	48	43,5	38,7	33,8	28,6	26	23,4	18,2	15

P₁ Max. power input.

Test results with clean cold water, without gas content.

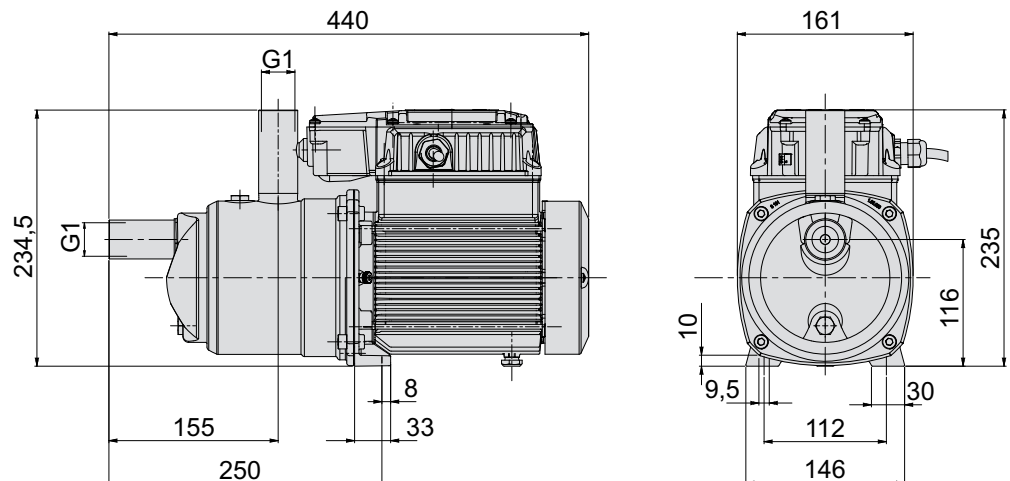
Tolerances according to UNI EN ISO 9906:2012

Characteristic curves $n \approx 4500$ rpm



Dimensions and weights

Net weight 12,44 kg
With cable length: 1,5 m



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

