



Domestic Variable Speed Pumps and Systems

meta
metatank



THINK OUT OF THE BOX!





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

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

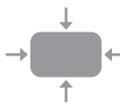
Liquid temperature: 0 °C to +35 °C.
Ambient temperature up to +40 °C.
Maximum permissible pressure in the pump casing: 8 bar.
Continuous duty.



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.

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 (5800 rpm per MÈTA SMALL)
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.

Performance

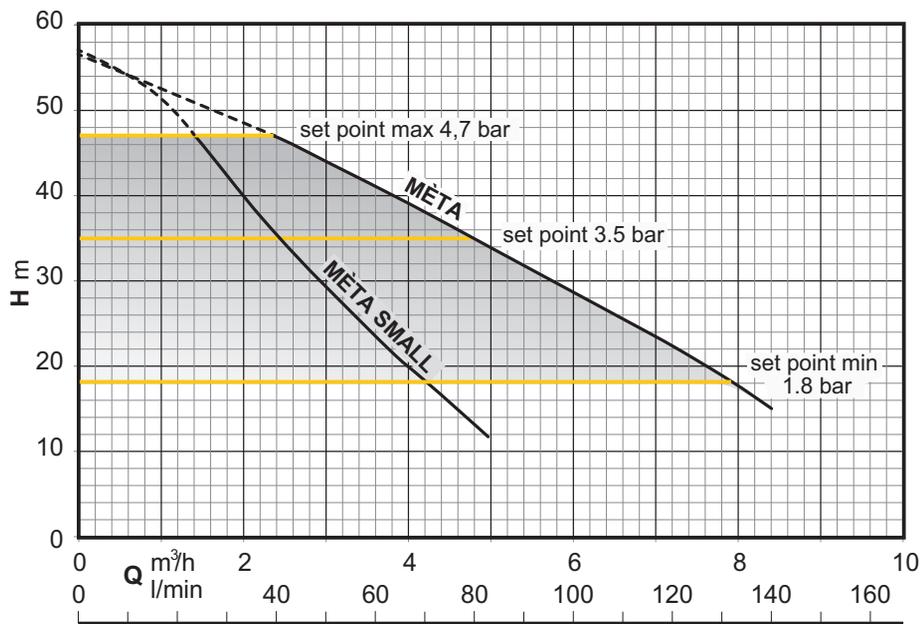
1~	230 V A	P ₁ kW	Q m ³ /h l/min	0	1	2	3	4	5	6	6,5	7	8	8,4
				0	33,3	33,3	50	66,6	83,5	100	108,3	116	133	140
MÈTA SMALL	2,8	0,65	H m	57	51,5	39,7	29,1	19,7	11,3					
MÈTA	5,9	1,35		55		48	43,5	38,7	33,8	28,6	26	23,4	18,2	15

P₁ Max. power input.

Test results with clean cold water, without gas content.

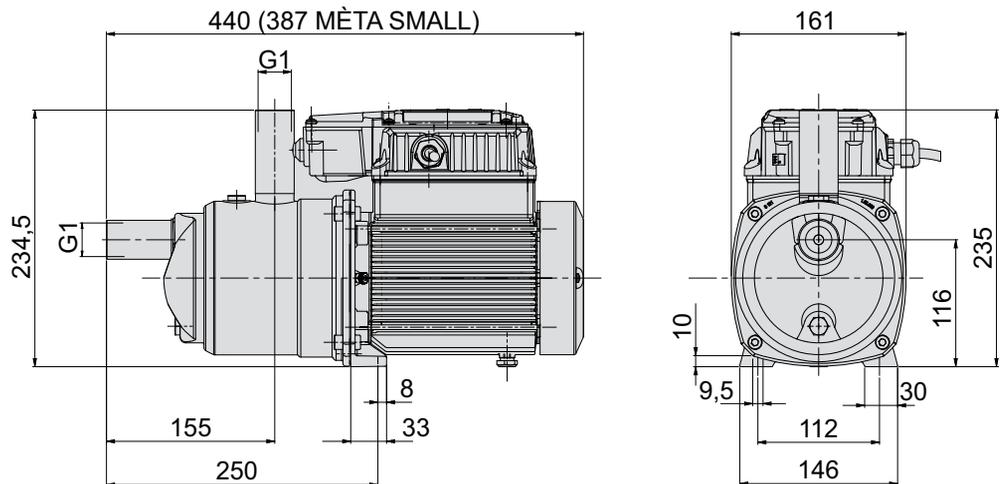
Tolerances according to UNI EN ISO 9906:2012

Characteristic curves



Dimensions and weights

Net weight
 MÈTA 12,7 kg
 MÈTA SMALL 10 kg
 With cable length: 1,5 m



Control Panel

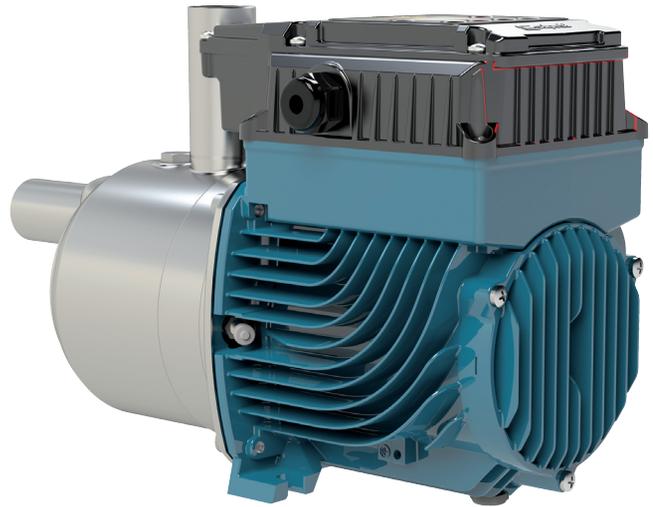


They allow to visualize:

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

mèta_{small}

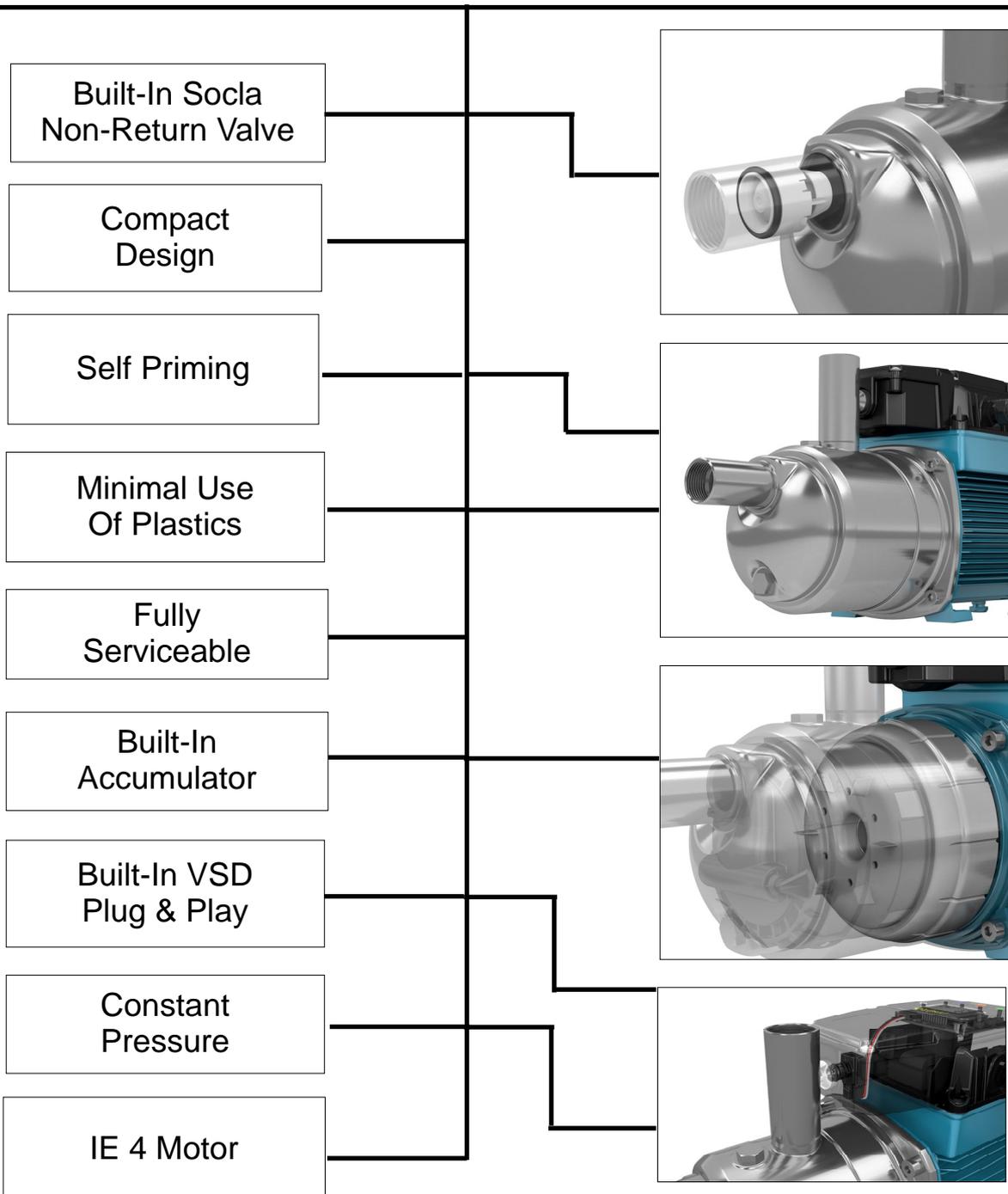
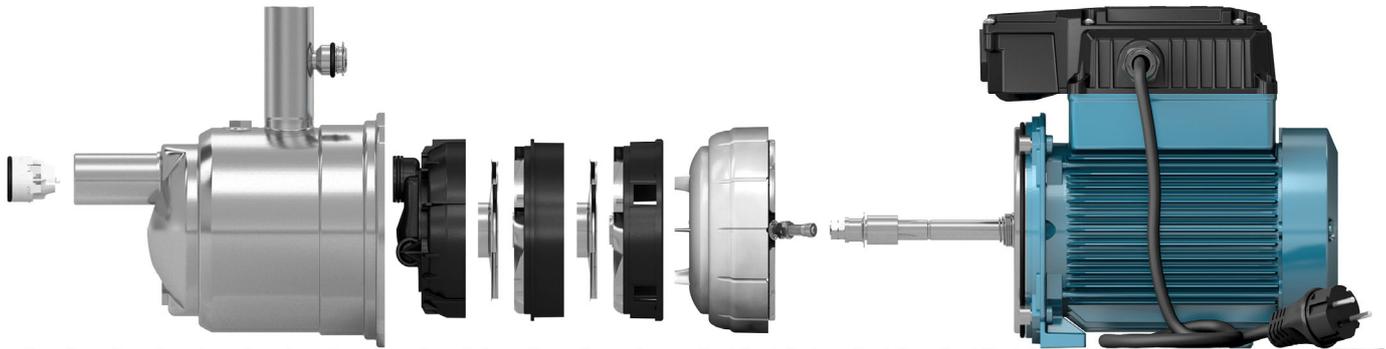
new design without cooling fan



think outside the box



mèta features



simple &
intuitive

visualise

initial screen rUn OFF Stb Err
operation frequency
delivery pressure
current input
power input
supply voltage

protect

dry run
self-prime detect
air in casing
leakage
starts per hour
pump locked
supply control



mètà tank

Metatank: Model 1L-250

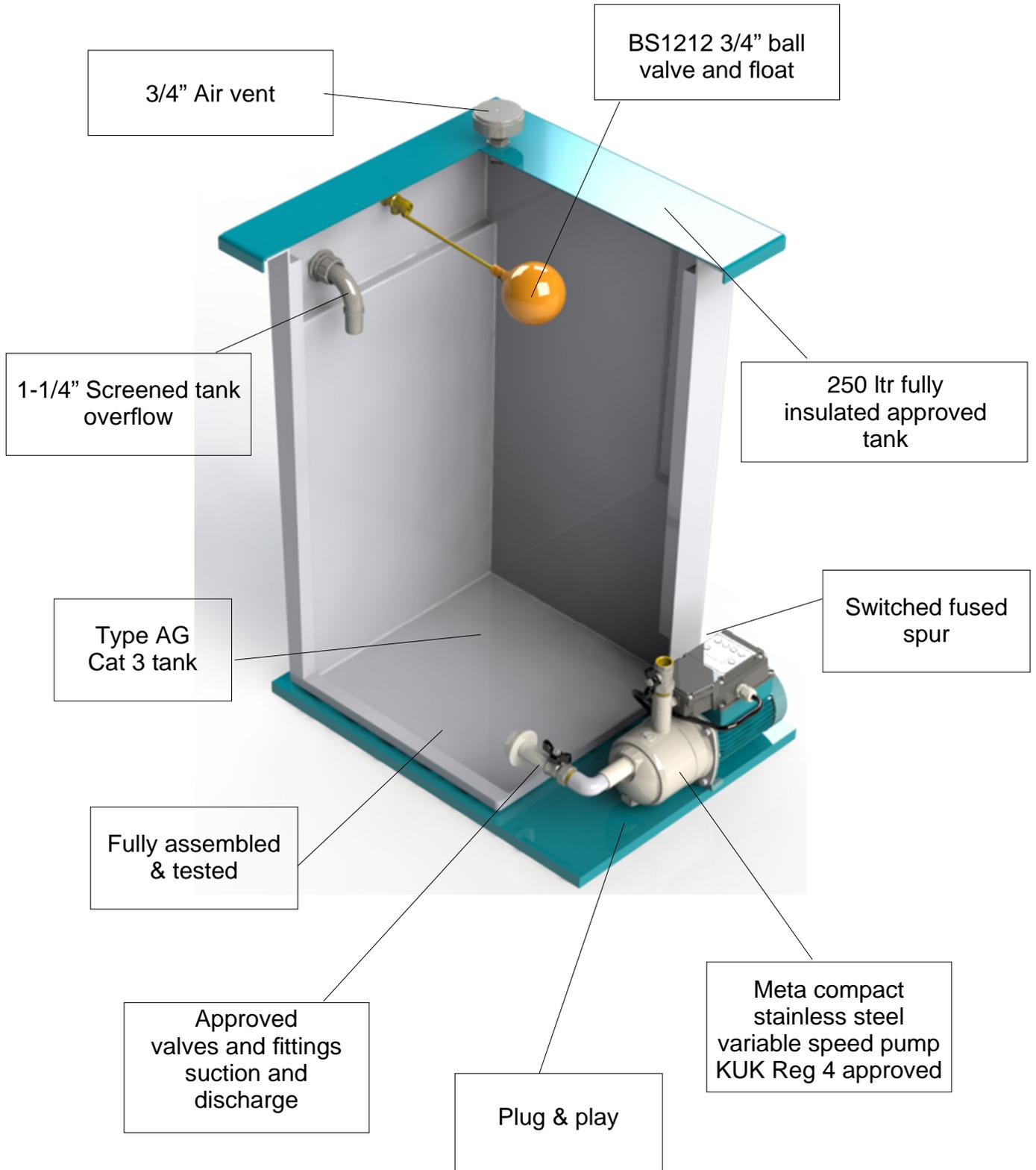
Metatank is a great new concept in domestic water supply. Based around the Meta range of super efficient multistage, self priming pumps, the packaged 250 ltr pump and tank set raises the bar in constant pressure, variable speed pumping. The tank is fully compliant with potable water, being fully insulated, type AG category 3. The sets are delivered fully assembled and tested saving on valuable site installation time and are fully wired to a switched fused spur, so just three on-site connections are required, water in to the 3/4" ball/float valve, water out from the 1" isolating valve to the system and a single phase power connection to the pre-installed spur. We pre-program the sets to the pump characteristics but re-programming is easy and fast.

These very competitively priced sets save time, money and energy, they are compact, completely serviceable and feature a 3 year guarantee.

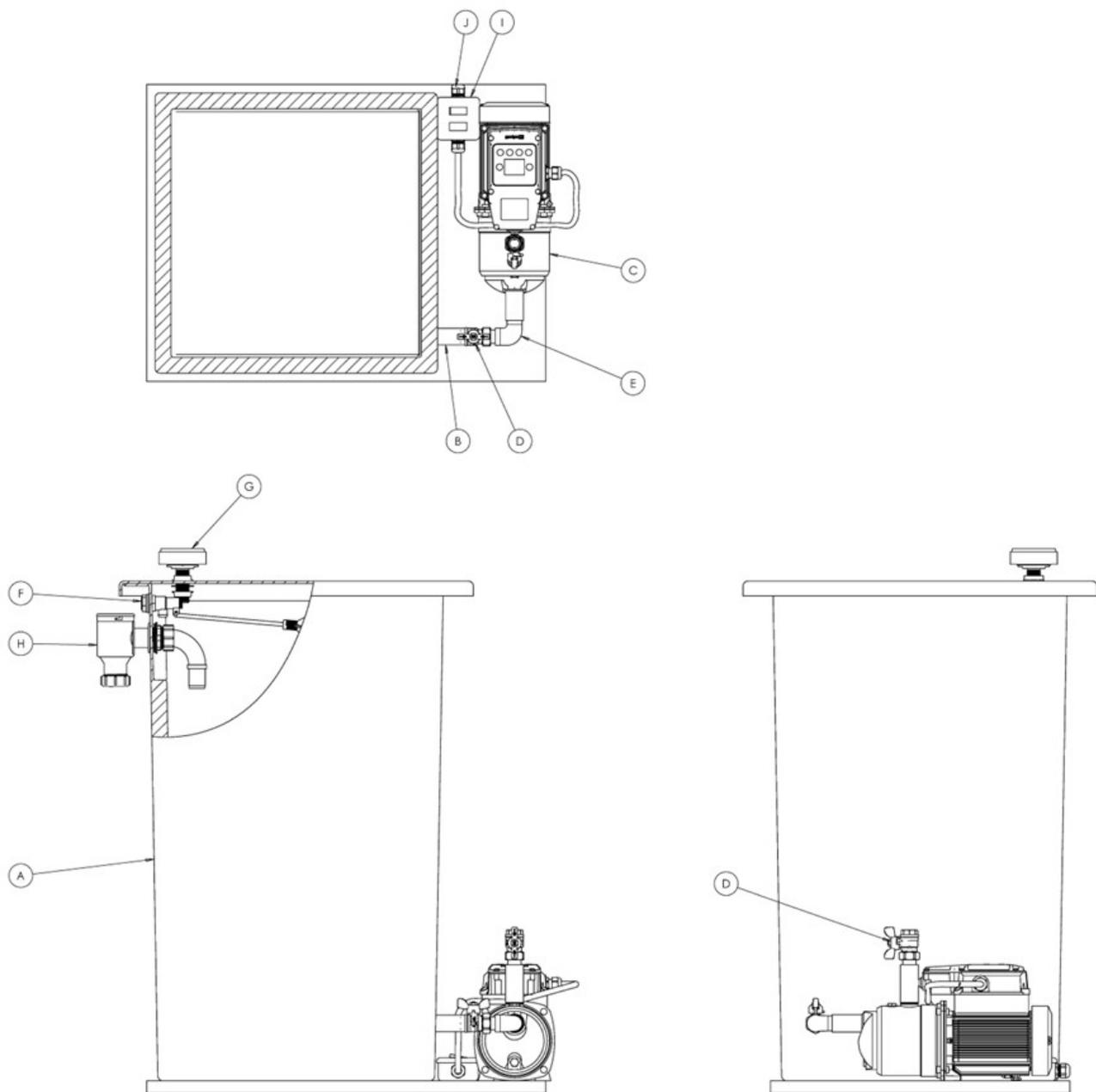
The Meta L set is capable of supplying water to a typical 3 or 4 bedroom house with constant water pressure of 3 bar.

Installation, commissioning and servicing should be carried out as per with the manufacturers guidelines, by qualified personnel, in-line with local regulations.

meta tank

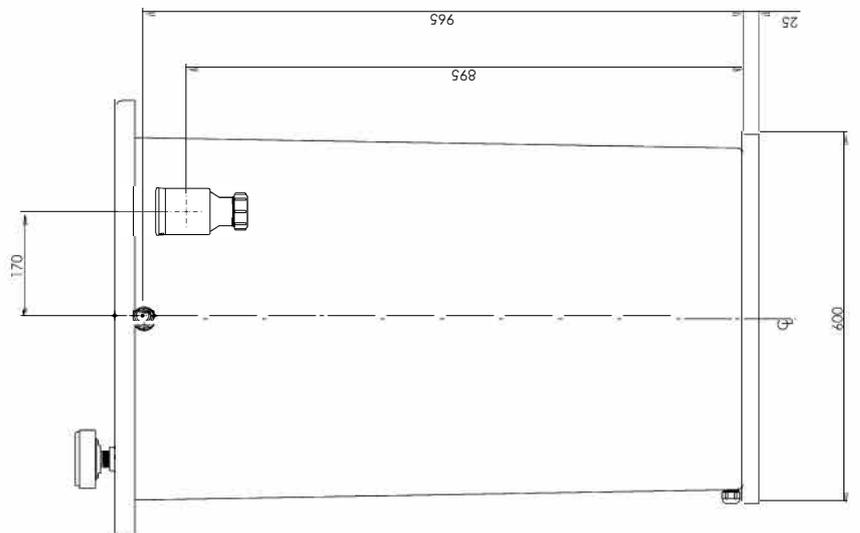
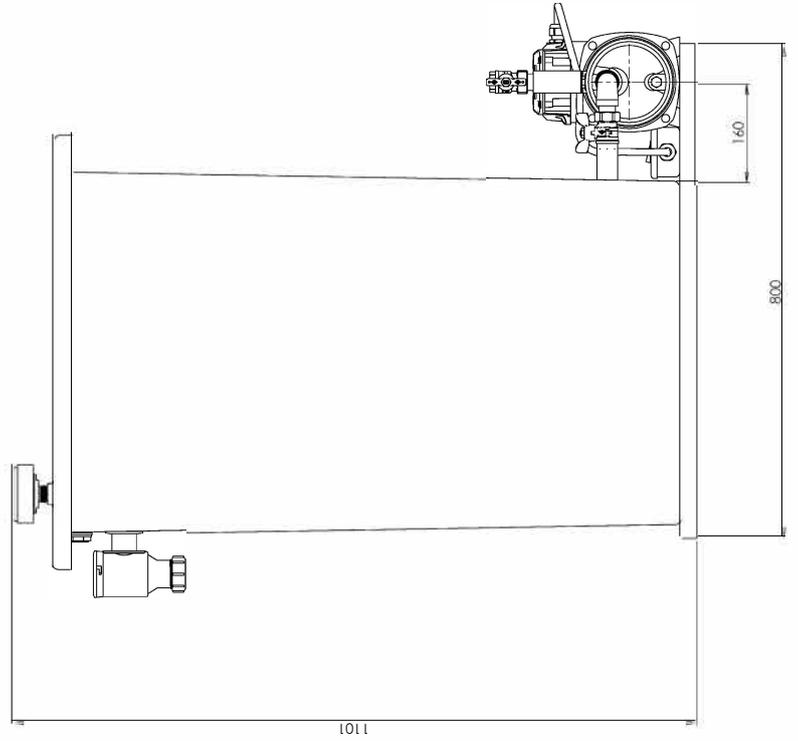
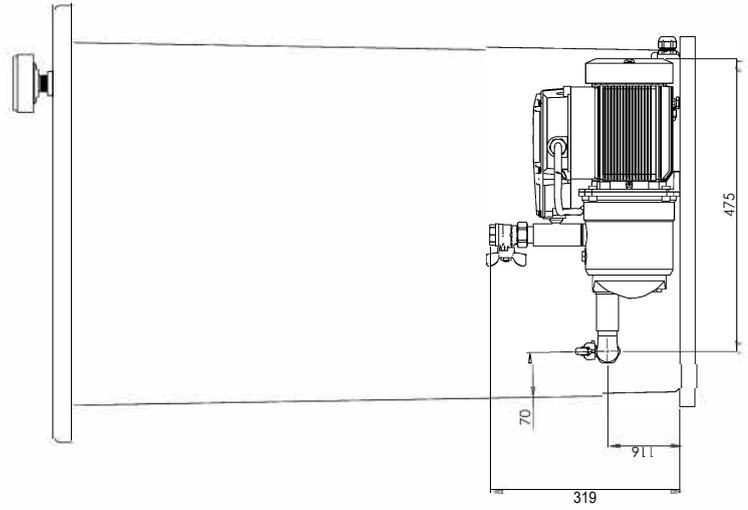
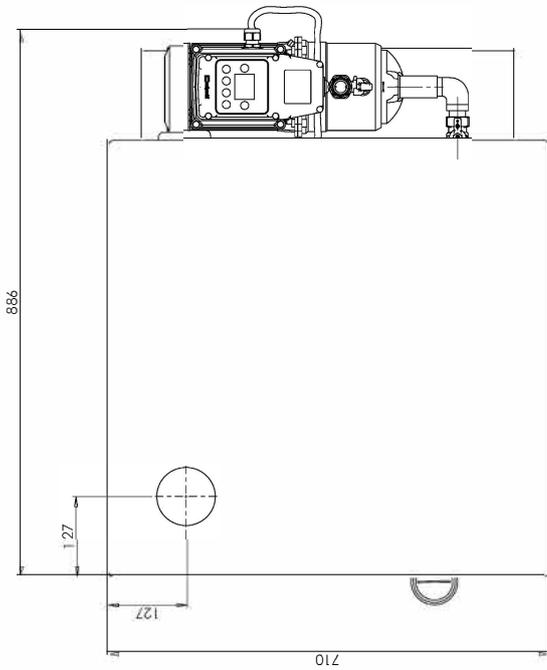


metatank



Item	Qty	Part/Description
A	1	250 Ltr (Nominal) Tank, Base & Lid
B	1	Hansen Nylon Tank Connector
C	1	Meta L 230/1/50 Pump, Motor and Drive
D	1	1" BSP Union Ball Valve
E	1	1" BSP M/F Stainless Steel Elbow
F	1	1" 3/4" Ball/Float Valve
G	1	3/4" McAlpine R31 Tank Breather
H	1	1-1/4" McAlpine R40 Screened Tank Overflow
I	1	13A Fused Spur with Switch

mèta tank



mèta contact



<https://eidos.calpeda.com/en>



Calpeda Limited

6-8 Wedgwood Road Industrial Estate
Bicester, Oxfordshire OX26 4UL

T: 01869 241441 **E:** pumps@calpeda.co.uk **W:** www.calpeda.co.uk

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