

GRUNDFOS MAX-E BOOST

The Grundfos Max-E Boost is a single pump packaged cold water booster set, designed as a compact and cost effective solution for pressure boosting in large domestic properties with two or more bathrooms.

The Max-E Boost uses the latest variable speed pump motor technology, to maintain a constant discharge pressure up to a maximum setting of 4.5 bar (factory setting 3 bar). The speed controlled operation of the Grundfos CRIE 5-5 helps eliminate pipe work noise caused by water hammer, normally associated with standard on/off controlled pumps. The pump is quiet in operation and its compact size make it suitable for installation in a utility room or garage, or a frost protected outdoor enclosure.

With WRAS approved parts the CRIE 5-5 stainless steel vertical multistage pump is factory commissioned to deliver a constant 3 bar pressure at flow rates up to 2.3 l/s.

The Max-E Boost can be connected to any standard Water Byelaw approved cold water storage tank having an AB Air Gap of adequate capacity to suit the water consumption of the installation.



FEATURES

- Packaged booster set with integral controls
- Variable speed operation for constant pressure
- Factory commissioned to 3 bar, capacity 2.3 l/s
- WRAS approved pump and pressure vessel
- Control panel with indicator lights
- Single phase supply
- Supplied with anti vibration mountings
- Supplied with low level float switch

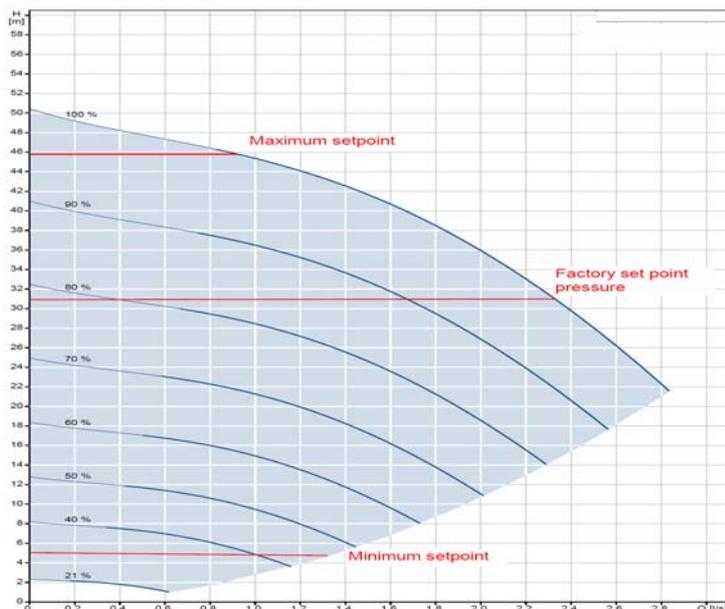
ELECTRICAL DATA

Electrical supply:	240V 1ph 50Hz
Full load current:	7.45A at 240V
Motor kW rating:	1.5kW
Full load input power:	1.65kW
Maximum fuse rating:	10A

MAXIMUM OPERATING CONDITIONS

Liquid temperature range:	+3°C to +90°C
Ambient air temperature:	up to +40°C
Relative Humidity:	95 % non condensing
Sound pressure level:	65 dB(A)

PERFORMANCE CURVE



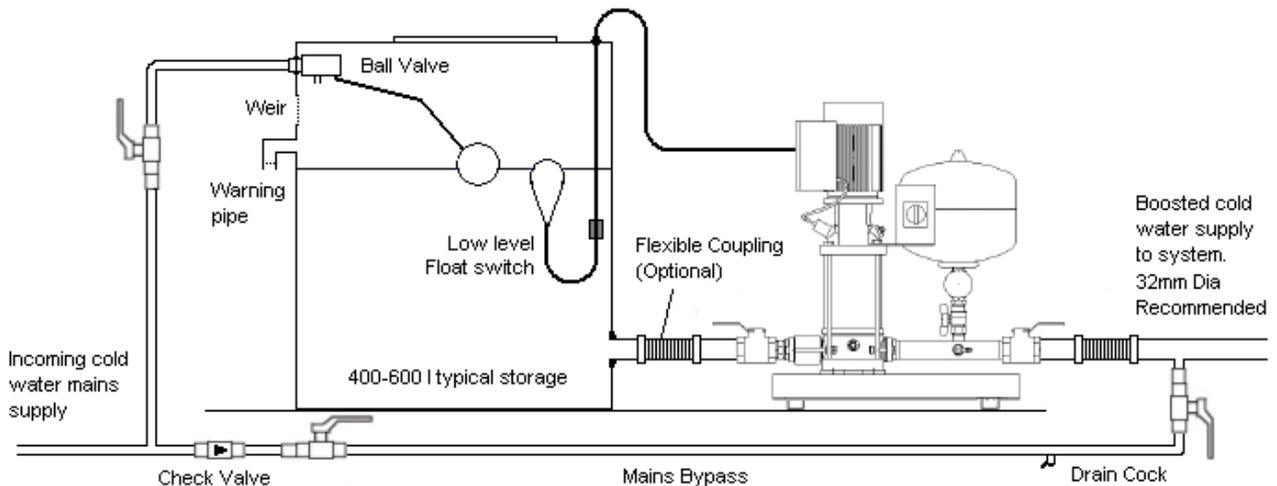
DESCRIPTION

The Max-E Boost is a single pump variable speed constant pressure booster set, with an integral pressure transducer, pressure vessel, non-return valve, isolating valves, pressure gauge, and anti-vibration mountings. A drain cock is included to simplify commissioning of the vessel pre-charge pressure.

The pump motor control panel indicates operation and fault conditions, and allows simple adjustment of the discharge pressure from 0.5bar to a maximum of 4.5 bar.

The Max-E Boost is intended to supply boosted cold water from a water storage tank to a pressurised hot and cold water system at a constant outlet pressure.

TYPICAL INSTALLATION



Any bypass arrangement must be installed strictly in accordance with the Water Byelaws Regulations. The bypass should be drained when not in use to prevent stagnation. The diagram above is for guidance only.

LOCATION

The Max-E Boost set should be sited in a dry, well ventilated, and frost-free position, where it will not be subjected to extremes of temperature. Adequate drainage facilities must be provided to prevent water damage in case of leakage or loss of water during commissioning and service.

The Max-E Boost should not be installed into roof or loft spaces as even low levels of vibration as will cause a disturbance.

FOUNDATION & MOUNTING

The Max-E Boost can be installed with the anti-vibration mountings supplied, or directly mounted to a concrete plinth or with an inertia base with springs. If used with anti vibration mountings or inertia base, flexible connectors should be fitted between the booster set and the system pipe work.

Grundfos does not recommend installation of the Max-E Boost onto a wooden substrate.

Booster sets installed onto wooden flooring must be provided with an inertia base with springs.

PRODUCT CODES

Complete Max-E Boost: 98536448

OPTIONAL ACCESSORIES

1 1/4" BSPM Flexible Coupling: GBPC1001

REPLACEMENT PARTS

Pump CRIE 5-5 1.5kW: 98390082

Expansion vessel GT-U-12V litre: 96573348

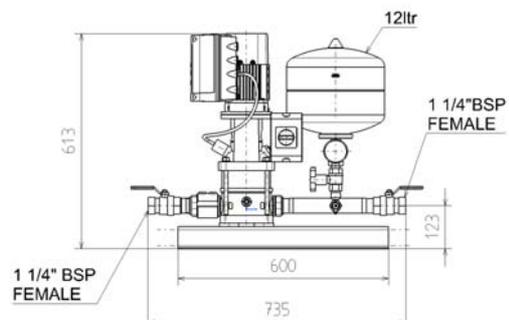
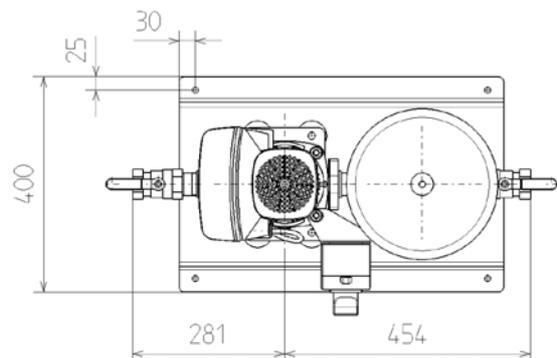
Low level float switch: GBPS0099

All dimensions are in mm
Weight dry: 42kg
Weight wet: 59kg
Shipping weight: 63kg

STORAGE TANK SIZING

The Max-E Boost must be used in conjunction with a Byelaws compliant storage tank having a type AB Air Gap. The cold water storage tank must have an adequate capacity to meet the demand of the occupants. As a general rule, allow 125 litres storage per person. The normal domestic water usage is approximately 150 litres per day per person, for standard fittings and use. The capacity of the cold water mains supply may also be taken into account when sizing the cold water storage tank.

WEIGHTS & DIMENSIONS



Ref: GB/MAX-E/SL/DBS/0314