

# mainsboost

## Mainsboost Plus

Suitable for unvented systems where pressure is less than 2.0 bar and water flow is insufficient. The WRAS approved Mainsboost Plus water performance system utilises the Mainsboost system's accumulator technology, supported by an innovative direct on mains Charger pump to provide up to 744 litres of water stored at pressure.

Mainsboost Plus can be supplied with multiple vessels and is also available in an horizontal orientation for where space is restricted.



### Features

- Flow rate up to 80 litres/minute per vessel
- Boost water pressure up to 3.5 bar
- 100 - 450 litre capacity vessel options
- Quiet operation
- Built in green energy bypass
- Programmable pump controls
- Robust construction
- Long life butyl diaphragm
- WRAS Approved product
- 5 year guarantee (3 year guarantee on pump and fittings)
- Includes comprehensive Upstream Line-In Kit (ULK) as standard

### Application

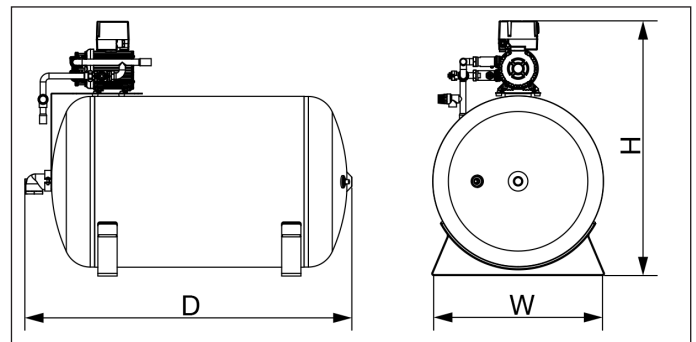
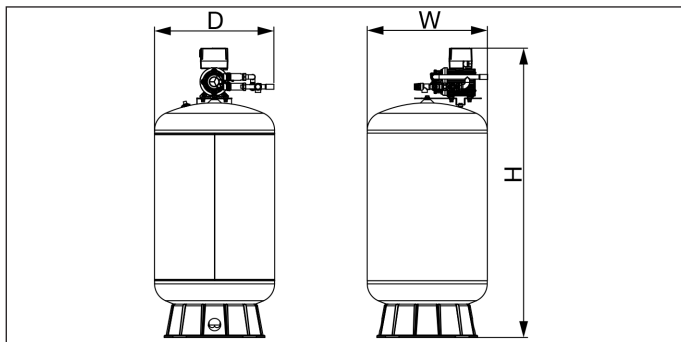
- Suitable for boosting the cold water mains supply to residential and commercial properties

### Options

- Standard options including 1, 2 or 3 pressure vessels
- Bespoke configurations available
- Pump sound attenuation cover
- Pressure vessel insulation jacket

|                 |                                  |           | Mainsboost Plus                                 |                 |     |      |                   |                    |                     |              |
|-----------------|----------------------------------|-----------|---|-----------------|-----|------|-------------------|--------------------|---------------------|--------------|
| General         | Guarantee                        |           | 5 years (3 year guarantee on pump and fittings) |                 |     |      |                   |                    |                     |              |
|                 | WRAS approval                    |           | 1611336   |                 |     |      |                   |                    |                     |              |
|                 | System patent no.                |           | 2349908   |                 |     |      |                   |                    |                     |              |
|                 | Noise                            |           | From 50 dB(A)                                   |                 |     |      |                   |                    |                     |              |
|                 | Maximum ambient air temperature  |           | 40 °C   |                 |     |      |                   |                    |                     |              |
|                 | Min / Max operating temperature  |           | Min 4 °C / Max 35 °C                            |                 |     |      |                   |                    |                     |              |
|                 | Protection class                 |           | IPX4  |                 |     |      |                   |                    |                     |              |
| Performance     | Maximum head (closed valve)      |           | 4.3 bar   |                 |     |      |                   |                    |                     |              |
|                 | Maximum working pressure*        |           | 600 kPa (6 bar)                                 |                 |     |      |                   |                    |                     |              |
| Pump            | Type                             |           | Peripheral                                      |                 |     |      |                   |                    |                     |              |
|                 | Mechanical seal materials        |           | EPDM / PTFE / Al. Oxide                         |                 |     |      |                   |                    |                     |              |
|                 | Head material                    |           | Brass   |                 |     |      |                   |                    |                     |              |
|                 | Impeller material                |           | Brass   |                 |     |      |                   |                    |                     |              |
|                 | Motor                            |           | Induction, auto-reset thermal trip              |                 |     |      |                   |                    |                     |              |
|                 | Duty rating                      |           | Continuous (S1)                                 |                 |     |      |                   |                    |                     |              |
|                 | Connections                      |           | G ¾ male  |                 |     |      |                   |                    |                     |              |
|                 | Flexible hoses (x2)              |           | 22 mm push-in x 22 mm push-in x 240 mm long     |                 |     |      |                   |                    |                     |              |
| Control system  | Dry run protection               |           | ✓   |                 |     |      |                   |                    |                     |              |
| Pressure vessel | Construction material            |           | Mild steel                                      |                 |     |      |                   |                    |                     |              |
|                 | Membrane material                |           | Butyl rubber                                    |                 |     |      |                   |                    |                     |              |
|                 | Max rated temperature            |           | 90 °C   |                 |     |      |                   |                    |                     |              |
| Electrical      | Power supply / phase / frequency |           | 230 V a.c. / 1 / 50 Hz                          |                 |     |      |                   |                    |                     |              |
|                 | Current (full load)              |           | 1.8 Amps  |                 |     |      |                   |                    |                     |              |
|                 | Power consumption                |           | 398 Watts                                       |                 |     |      |                   |                    |                     |              |
|                 | Fuse rating                      |           | 3 Amps  |                 |     |      |                   |                    |                     |              |
|                 | Power cable (pre-wired)          |           | 1.5 metres                                      |                 |     |      |                   |                    |                     |              |
| Physical        |                                  | Model     | Vessel capacity (litres)**                      | Dimensions (mm) |     |      | Weight empty (Kg) | Weight filled (Kg) | Maximum weight (Kg) | ULK Kit (mm) |
|                 | Vertical                         | MBP 100SV | 55  | 1020            | 440 | 485  | 25.5              | 80.5               | 125.5               | 22           |
|                 |                                  | MBP 130SV | 71  | 1325            | 440 | 485  | 29.5              | 100.5              | 159.5               | 22           |
|                 |                                  | MBP 200SV | 110   | 1270            | 535 | 548  | 41.5              | 151.5              | 241.5               | 22           |
|                 |                                  | MBP 250SV | 132   | 1445            | 535 | 548  | 46.5              | 178.5              | 296.5               | 22           |
|                 |                                  | MBP 300SV | 174   | 1730            | 535 | 548  | 55                | 229                | 355                 | 22           |
|                 |                                  | MBP 450SV | 248   | 1775            | 660 | 660  | 80                | 328                | 530                 | 22           |
|                 | Horizontal                       | MBP 200SH | 110   | 888             | 540 | 1026 | 46.5              | 156.5              | 246.5               | 22           |
|                 |                                  | MBP 250SH | 132   | 888             | 540 | 1206 | 51.5              | 183.5              | 301.5               | 22           |

\* The maximum pressure that can be applied to the system under any installation conditions. \*\*At typical working pressure



| Model Description | Dim. 'H' | Dim. 'W' | Dim. 'D' |
|-------------------|----------|----------|----------|
| MBP 100SV         | 1020 mm  | 440 mm   | 485 mm   |
| MBP 130SV         | 1325 mm  | 440 mm   | 485 mm   |
| MBP 200SV         | 1270 mm  | 535 mm   | 548 mm   |
| MBP 250SV         | 1445 mm  | 535 mm   | 548mm    |
| MBP 300SV         | 1730 mm  | 535 mm   | 548 mm   |
| MBP 450SV         | 1775 mm  | 660 mm   | 660 mm   |

| Model Description | Dim. 'H' | Dim. 'W' | Dim. 'D' |
|-------------------|----------|----------|----------|
| MBP 200SH         | 888 mm   | 540 mm   | 1026 mm  |
| MBP 250SH         | 888 mm   | 540 mm   | 1206 mm  |

Stuart Turner Limited reserves the right to amend specifications without notice.