

ARMSTRONG



Multipump Booster Set

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Fixed speed Multipump booster set

The 6850 Hydropak HM range of packaged water booster sets is specified to provide a fully packaged compact and high quality solution to your water problems where high efficiency and low noise are required.



► Applications

6850 Hydropak HM sets are designed to provide a reliable supply of domestic water in applications such as residential blocks, schools, hotels and hospitals.

With a wide range of hydraulic accumulators available for pump energy recovery, benefits include:

- Reduced pressure fluctuation
- Reduced life cycle costs
- Lower maintenance costs
- Compact package
- Reduced noise levels

► Hydraulic Accumulators for Energy Recovery

18 or 60 litre WRAS approved accumulators are fitted as standard to the HM booster set.

A comprehensive range of larger accumulators - all WRAS approved - can be supplied to increase rest time between pumping cycles, increase operating efficiency and reduce operating cost. Larger vessels are supplied loose.

Since the introduction of the Climate Change Levy, Building Services' running costs are under increasing pressure downwards. Booster sets with minimum run timers allow for safe reliable operation but waste energy when the pumps run against shut valve towards the end of the operating cycle.

This energy can be recovered if all the boosted water is stored in the accumulator. An extra benefit when using a larger accumulator is that the pressure fluctuation to closed valve head is minimised.

► EFF Motor Labelling Scheme

6850 Hydropak HM booster sets are fitted with EFF2 motors as standard to provide an economic high efficiency product.

EFF1 motors offer the highest efficiency and power factor and are available as an option on all pump sizes.

EFF1 motors are eligible for Enhanced Capital Allowances as part of UK Governments Climate Change Program.

► Product Features

- Available as 2, 3, or 4 pump set including jockey pump.
- All wetted components are WRAS approved.
- Each set tested and configured hydraulically, electrically and functionally.
- CE Marked.
- EMC compliant.
- Meets LV directive.
- BMS compatibility as standard.
- High specification control panel components.
- PLC controlled with LCD display.
- Programmable service interval reminder option.

► Visual Indication

The 6850 Hydropak HM booster set features a logic control unit to provide system status information and stage pumps in and out as required.

LCD displayed information includes:

- Pump tripped
- Power on
- Break tank low water level
- Break tank high water level
- Pump hours run
- Low pressure alarm

Lamp indication of:

- Each pump running
- Each pump tripped
- Power on
- Break tank low water level
- Break tank high water level
- Low pressure alarm



► Test

Each set is tested hydraulically and electrically.

► Limits

Flow rates of up to 50l/s. Pressures up to 15 bar as standard. Higher on application to our Sales Office.

► Jockey Pumps

A small jockey pump is recommended when long periods at low demand occur. Installation of a jockey pump results in considerable long term energy savings.

► Pressure Regulating Valves

Pressure regulating valves are used to produce a constant system pressure from HM sets. Available as an option, they are supplied loose. See pressure regulating valve leaflet.

► Ancillary Equipment

Flexible connections, anti-vibration mounts and low level cut-out switches can also be supplied.

► Break Tank

Custom designed sets with Bye Law 30 compliant break tanks, fitted over the booster set, are available on application.

► Specifications

6850 Hydropak HM booster sets incorporate a fabricated heavy gauge steel base-frame and have the following component specifications:

► Pumps

Stainless steel impellers, shaft and stage pieces.
SV2, SV4, SV8, SV16 sets - Stainless steel top and bottom covers.
SV33, SV46, SV66 sets - Epoxy coated cast iron top and bottom covers.
Carbon versus ceramic mechanical seal.

► Motors

EFF2 TEFV, IP55, to IEC standards, with class 'B' temperature rise and class 'F' insulation.
EFF1 motors available as an option.

► Headers

Copper pipework using tube EN1057 table X which supersedes BS2871. Stainless steel headers for pipe diameters above 150mm.

► Valves

SV2, SV4, SV8, SV16 sets - bronze body ball isolating valve - valves complying with EN 29000 and bronze body poppet type non-return valves.
SV33, SV46, SV66 sets - cast iron body epoxy coated butterfly valve complying with BS 4504-PN16 and cast iron epoxy coated poppet type non-return valves.

► Control Panel and Features

IP54 steel enclosure with door interlocked isolator.
All components labelled.
Automatic rotation of the duty pump.
Low water level cut-out circuitry with sequenced pump restart.
All components of high quality from a restricted approved suppliers list.

All cables crimped and numbered.
Hand facility (each pump).
Automatic omission of failed pump from cycle.
Optional dual break tank selection.
Hours run indication (via LCD display).

► BMS Compatability

Volt free contacts as follows:

Each pump running.	Each pump fault.
Break tank low water.	Low system pressure.
Power failed.	Common alarm.

► 230 Volt Remote Alarm

A 230 volt fed common alarm contact for use with an external audible alarm, complete with mute facility (audible alarm bell, optional extra).

► Paint

Each set is completely coated with a heavy duty paint finish to Armstrong standard.

Our policy is one of continuous improvement and we reserve the right to alter our dimensions and specifications without notice

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