

BOOSTFLO BIS Ee

MULTI-DRIVE VARIABLE SPEED BOOSTFLO



ENERGY SAVER

BOOSTFLO Ee VARIABLE SPEED AUTOMATIC PUMPING SYSTEMS FOR CONSTANT PRESSURE COLD WATER BOOSTING APPLICATIONS

Boostflo - factory assembled, base mounted combination pumping systems, pre-piped and electrically wired ready for site installation. Designed to automatically maintain the domestic water supply pressure in buildings, generally in accordance with BS 6700.

CONSTRUCTION

- **Pumps** - single or multi-pump systems arranged to operate automatically in duty, standby or support modes of operation. Horizontal or vertical, stainless steel centrifugal pumps are equipped with mechanical seal and coupled to totally enclosed fan ventilated electric motor.
- **Variable Speed Drive** - energy efficient, soft-start multi-drive controls, with optimized motor protection, includes one variable speed drive and keypad display to monitor performance and data for each pump. Incorporating auto-sequence and under-load (low-water) protection. Common power supply cubicle to IP54, with mains interlocked isolator and power-on lamp. The equipment is pre-wired to accept an incoming 400 volt, 3 phase, 50 Hz 4 wire electric supply. Outgoing voltage free terminals are provided for remote common alarm signal. EMC compliance to END61800-3. Options include - Drives to IP21 or IP54, individual BMS signals and other custom control features.
- **Pipework** - Inlet and outlet manifolds, sized for reasonable water velocities, in copper to BS 2871 table X are standard. Each pump is fitted with inlet and outlet isolating valve and outlet soft-seat non-return valve. A discharge pressure gauge, calibrated in bar and psi.g is connected to the outlet header.
- **Diaphragm vessel** - all welded shell and replaceable 'water in the bag' construction complies with BS 6144.
- **WRC materials** - components are generally selected from WRC listed materials and full WRC-build can be specified.

OPERATION

The specified system pressure is automatically maintained within close limits at the design set-point, whilst the duty pump speed modulates to suit variations in the system flow requirements. Increased system demand will start any support pumps as required to maintain the pressure set-point at varying flows.

Auto-sequence control shares the duty pump running times.

Soft starting and stopping of the pumps, during 'wake' and 'sleep' control, eliminates pressure surges and energy wasting closed valve running.

Energy saving variable speed controls result in substantial savings in running costs - as a guide for example - 'a 20% speed reduction results in a 50% reduction in consumed power'.

OPTIONS

Overhead mains break tank and frame - to byelaw 30.

Rubber-mounts and flexible connectors.

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for better fluid handling