



Integrated, Efficient System Design: The Armstrong 8000 Series

...Integrated Pumping Module

The Armstrong 8000 Series Integrated Pumping Module is a range of pre-configured pumping systems that include fixed speed, energy optimised pumping modules with several control options. The 8000 Series is designed to meet the needs of various building heating and cooling system configurations with the added benefits of offsite construction and integration.

Integration of components, such as Armstrong suction guides, flo-trex valves and Vertical In-Line pumps, are designed for pipeline mounting, enabling compact system layouts. Armstrong solutions, like Intelligent Variable Speed (IVS) technology and Integrated Pumping Systems (IPS) multi-pump, multi-zone control, present significant installation and life-cycle cost savings. Where internal building space is at a premium the enclosed 8000 Series option is suitable for rooftop or other outdoor installations.

Benefits

Integrated Solution: Ensures that all sub-systems and controls are matched for optimised performance

Energy Efficiency: Variable speed, sensorless and the IPS Control significantly reduce energy consumption as pumps are controlled based on demand

Reduced Risk: Single source responsibility of pump and control selection

Offsite Construction: Removes pumping system from the critical path

Design Simplicity: Provision of 3D model and the standard design helps reduce design costs

Reduced Installed Cost: Factory assembly enables reduced piping and wiring connectors

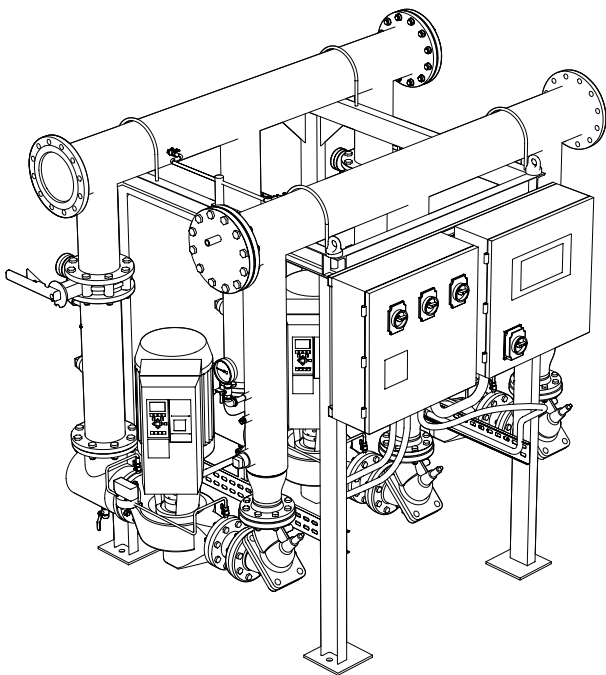
Optimised Plant Layout: Modules are designed for reduced space requirement without compromising equipment access for maintenance or repair

8000 Series Models

The 8000 Series is available in four variations dependant on the scope of supply and level of control required. The 8003 IVS(S) and 8004 IPS are both supplied fully controlled based on system demand by IVS Sensorless or IPS Control

technology. This approach achieves the best in energy efficiency while reducing the requirement for pump control specialists during design and on site installation.

8001 FMS	<ul style="list-style-type: none"> • Up to 6 fixed speed pumps supplied as one module • Controls to be supplied by others 	<ul style="list-style-type: none"> • Ease of Installation • Optimised Layout
8002 IVS	<ul style="list-style-type: none"> • Up to 6 IVS pumps that have integrated variable speed drives • Sensorless control suitable on 2-pump systems • Control and sensor signals to be provided by others 	<ul style="list-style-type: none"> • Reduced Energy Consumption • Motor Mounted Drives
8003 IVS(S)	<ul style="list-style-type: none"> • 2 IVS pumps configured as a duty/standby set and operating with sensorless control reduces the requirement of a sensor • Set mounted controller used to toggle duty pump 	<ul style="list-style-type: none"> • Reduced Energy Consumption • No need for system sensors • Demand based control • Factory Configured
8004 IPS	<ul style="list-style-type: none"> • Up to 6 IVS pumps that have integrated variable speed drives • Set mounted IPS controller allowing multi-zone demand based control of parallel pumping system 	<ul style="list-style-type: none"> • Reduced Energy Consumption • Multi-zone • Demand Based Control • Factory Configured



Motive Power Options

Standard power and control wiring is supplied by the contractor on site although additional benefits can be gained from the following motive power options:

Enhanced: Each pump is wired to an adjacent isolator

Prestige: Set mounted distribution board is fully wired for single point of motive power

Enclosed: The system is housed in a compact, thermally and acoustically insulated, weatherproof enclosure. This is the perfect solution for rooftop or outdoor applications where space is at a premium