



Smart Pump Range

EFFICIENCY, POWER AND PERFORMANCE



Higher Performance with Lower Energy Usage

The Smart Pump Range provides state-of-the-art technology designed to maximize efficiency, optimize pump performance and communicate with other building systems in a simple to use product. The Smart Pump Range features the Xylem Smart Motor, an “ultra premium” IE5 permanent magnet motor with built-in pump protection controls and monitoring to help you optimize pump operations and increase energy savings up to 70% (vs fixed speed) while reducing installation time.

The Smart Motor operates single or multipump systems of up to three pumps, with no need for an external control panel or programmable logic controller (PLC). The motor matches performance to demand to reduce energy usage. The increased efficiency allows the drive to run faster with the same amount of power resulting in increased head and flow output from the pump.

Pre-Programmed Packages

The Smart Pump Range includes the e-SVE or e-HME (pump plus Smart Motor). The pre-assembled package provides easy, cost effective installation – and you benefit from a pre-configured system’s intelligence and performance - right out of the box. When the Smart Motor is coupled with multistage pump technology like the e-HM or e-SV, it presents a powerful combination in a compact footprint, especially in installations in which space is a primary concern. Please note, the Smart Motor is not sold separately, it is only available in a pre-programmed package (e-SVE or e-HME).

Smart Motor
(not sold separately)



e-HME
(e-HM with Smart Motor)



e-SVE
e-SVE (e-SV with Smart Motor)



Description	Application
e-HME (e-HM with Smart Motor)	Industrial washing & cleaning, food & beverage, industrial refrigeration, water treatment, and OEM custom applications
e-SVE (e-SV with Smart Motor)	residential, commercial (low water pressure), residential/light commercial and agricultural (irrigation)

FEATURES AND BENEFITS

Intelligence: single or multipump systems

The smart, easy-to-set-up motor can operate single or multipump systems of up to three pumps, with no need for an external control panel or PLC. The drive matches performance to demand, reducing energy use. And it allows smart pumps to communicate with building systems in real time (single pump only).

Efficiency: best-in-class IE5 motor

"Ultra-premium" IE5 efficiency rating is the top efficiency level for motors designed to operate directly on-line. Each smart pump is equipped with a permanent magnet "ultra-premium" Xylem Smart Motor that meets IE5 specifications, providing efficiency well above a standard IE3 Nema Premium efficient synchronous motor.

Ease of use: plug-and-play simplicity

The Smart Motor is easy to install and commission in new or retrofit applications. Easy BMS integration and standard BACnet and Modbus capabilities (single pump) ensure quick connectivity and seamless integration with your building management system.

Performance: extreme environments

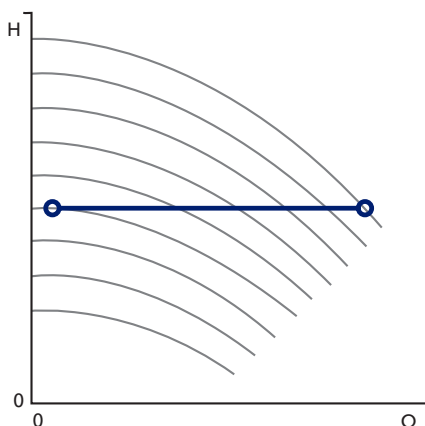
The Smart Motor uses the latest technology to manage water delivery in water boosting and transfer applications at the correct pressure and flow. It can easily handle extreme environments from -20°C to 50°C, without derating performance. The unit is rated NEMA 3R for outdoor installation.

Pump protection: safety and monitoring

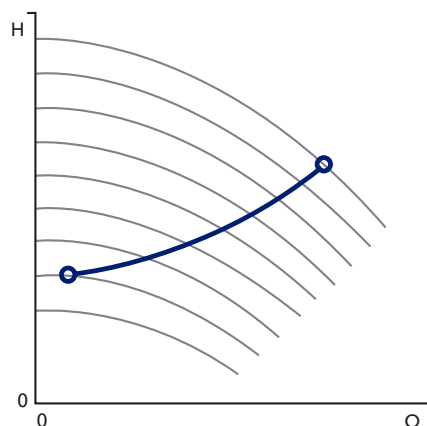
The following monitoring and control features are included in the standard package, right out of the box with no need to configure:

- Pump shutdown for: no flow, broken pipe, and dry run
- Supervision and metering tools include: automatic test starts, auto smart cycle change of lead and lag pump units, inverter fault signal memory and an operating-hours run counter.
- The Smart Pump Range includes a pressure sensor as standard on each unit, multipump systems provide full redundancy for drive, motor or sensor failure
- Controls include: constant pressure, system curve match and external signal

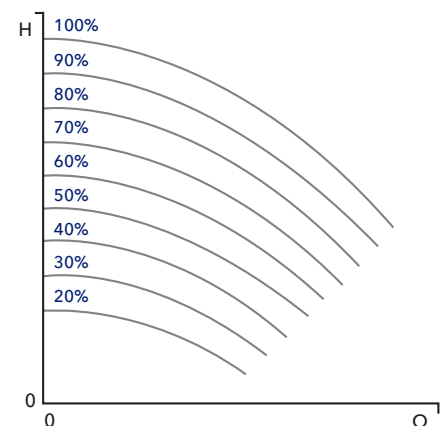
Constant Pressure



**Multistage Pump
System Curve Match**



External Signal



APPLICATIONS:

It's time to think beyond single components. For top efficiency in water supply/water boosting and HVAC applications, you need the Smart Pump Range, the right combination of motor, drive and pump – ensuring reliable performance, maximum savings and a rapid return on investment.

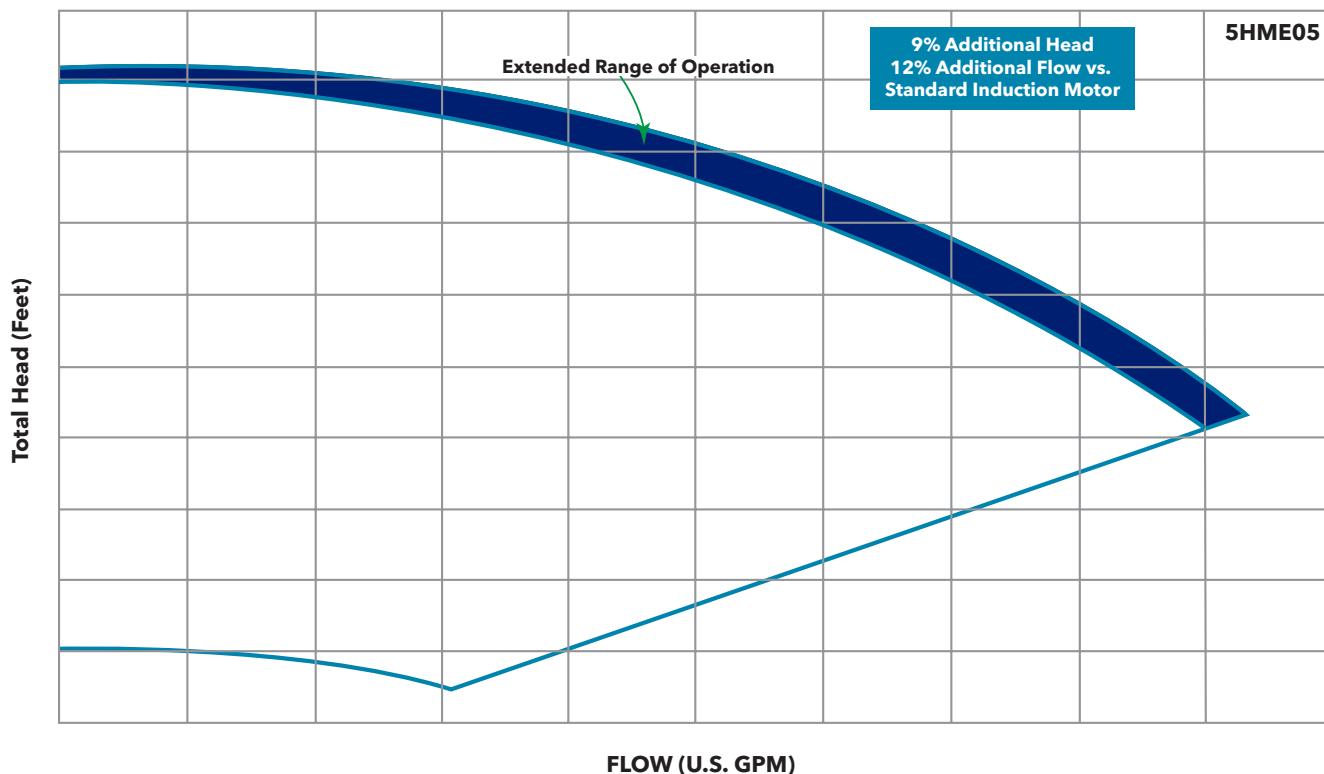
General applications include:

- Industrial
- Residential
- Light Commercial
- Agriculture
- OEM
- HVAC
- Water Boosting
- Water Supply

SPECIFICATIONS:

Phase and Voltage	Single phase 208-230V to 2 HP Three phase 208-230/460V to 3 HP
Power	Up to 3 HP (2.2 kW)
Multipump capability	Up to 3 units
Power supply	50/60 Hz
Communication	BACnet and Modbus standard in single pumps
Motor	IES2 package with IE5 motors
Enclosure rating	IP55 / NEMA 3R
Ambient temperature	-4°F/ 122°F (20°C / +50°C) full power
Shut down protections	No flow, broken pipe and dry run
Controls	Constant pressure, system curve match and external signal
Other	Standard - automatic test starts, auto smart cycle, change of lead and lag pump units, inverter fault signal memory and operating-hours run counter. Optional - failure and over-temperature sensors.

Typical Example of Increased Performance



Xylem Inc.
Phone: (866) 673-0428
Fax: (888) 322-5877
www.xylem.com

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