



## Series e-82X Smart Pumps

Integrated pump, motor & variable speed drive solutions, **powered by hydrovar® X**



**Bell & Gossett**  
a xylem brand

# Ultra-premium package bringing market-leading performance right out of the box!

Powered by Xylem's hydrovar® X motor, e-82X Smart Pumps offer customizable pumping solutions designed to deliver ultra-premium efficiency, connectivity, and simplicity right out of the box!

Series e-82X Smart Pumps integrate decades of expertise and know-how in pumping solutions to bring the right combination of motors, variable speed drives and hydraulic pumps in one comprehensive, highly efficient package.

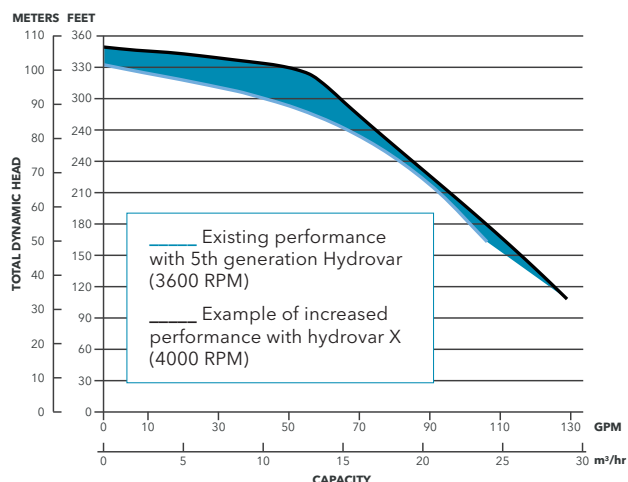
Series e-82X centrifugal pumps are ideal solutions for parallel staging or back-up capacity. The pumps are stainless steel fitted, with double the power in a compact footprint. Parallel pumping provides redundant capacity and the capability to meet duty requirements with smaller horsepower motors and drives and improved pump efficiency at reduced flow. As system load is reduced, pumps can be de-staged to achieve higher motor and drives efficiencies.

The compact pump design provides approximately 40% space saving and piping reduction over traditional parallel installations. Applications include hydronic heating and cooling systems, light industrial process, general service, pressure boosting and OEM.

So, when it's time to think efficiency, performance and reliable market-leading technology ... start with e-82X Smart Pumps from Bell & Gossett - a complete system, delivering the solutions you need for today.

## Performance

(representative example of increased performance with hydrovar X)



## Series e-82X Smart Pump standard features

### Double the capacity

- Parallel pumping provides redundant capacity as well as the capability to meet duty requirements with smaller horsepower motors and a smaller footprint.

### Simplified installation and maintenance

- The back pull-out design allows the Series e-82X Smart Pump to be serviced without disturbing the piping, minimizing repair and downtime.
- The bottom of the volute is tapped with four bolt holes to accept an ANSI/ASME flange, which provides additional support for the pump.
- A rigid cast iron motor bracket ensures positive concentric alignment between motor and pump components to promote maintenance-free operation and pump longevity.

### Easy drop-in replacement

- In retrofit installations, the Series e-82X Smart Pump is an ideal drop-in replacement for Series 80 or a Series e-80 pumps.
- A blanking plate is included, to isolate the stand-by head for maintenance while the primary pump is in use.

### Reliable flapper valve

- The flapper valve is easy to install and provides positive shutoff to one side of the pump in duty/ standby operation.
- In parallel operation, pressure guides the free-flowing valve into a position where both sides of the pump operate together to optimize hydraulic performance.
- The valve is composed of EPDM rubber enclosed in a stainless-steel body.
- Self-sealing bolts are used during assembly to ensure leak-free operations.



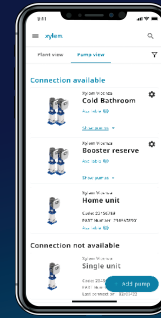
# Unleash the power of hydrovar X!

## Don't hold back your imagination!

With the graphical color display, you can quickly set-up and navigate the menu of your unit: check all the parameters and choose the perfect unit configuration to fit your installation. No time to do it? Genie will start up and run the unit for you!



## Check your systems from wherever



Download the mobile app



## hydrovar X and Avensor, better together!

hydrovar X can communicate with Avensor, Xylem's IoT platform, for a complete overview of all connected assets, anytime, anywhere. Avensor collects historical data to analyze trends and generate alerts preventing failures and equipment downtime.

**Simple:** Built-in application software makes the drive one of the easiest to commission, program and operate, enabling virtually any configuration of pumps.

**Sustainable:** No rare earth materials are used to minimize product availability challenges and address environmental concerns while offering smart technology and superior performance.

**Intelligent performance:** Advanced system controls (up to 8 pumps) are customizable for a wide range of applications. The IE5 "ultra-premium" hydrovar X smart motor provides one of the broadest efficiency ranges in the industry.

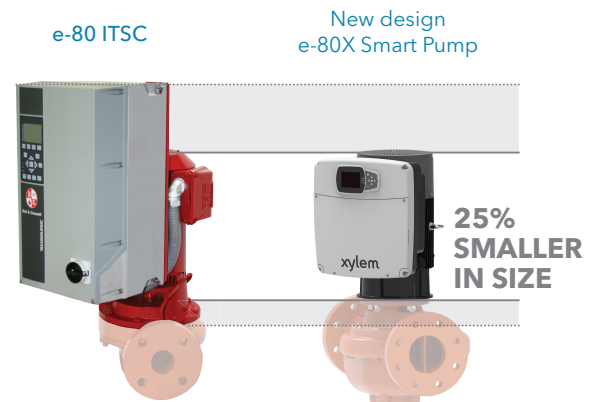
**Built-in protections:** Integrated functions provide protection for the pump and motor while optimizing performance.

**Easy service:** VFD and/or motor can be easily replaced individually, minimizing downtime and expensive repair.

**Ease of installation & maintenance:** Integrated pump and hydrovar X motor design eliminates the need for additional wiring, labor and associated costs.

**Compact motor design:** hydrovar X motors offer higher performance with a reduced footprint when compared to legacy generation Hydrovar or e-80 ITSC solutions. Increased performance reduces electricity consumption and lowers life cycle costs.

Representative size differential example:



The e-80X Smart Pump is 25% smaller than the legacy e-80 ITSC with a 3x3x11B, 254JM motor frame. The e-82X Smart Pump provides a comparable space saving design while doubling pumping capacity!



Separate quick connect components allow users to replace the drive or the motor independently. The integrated electrical socket requires no additional wiring, allowing a true plug and play solution versus buying a new motor and drive combination.

# Product Specifications

## hydrovar X Smart Motor Specifications

<b>Display:</b>	Graphic color
<b>Controls:</b>	Actuator, Constant Pressure. Proportional Pressure, Proportional Quadratic Pressure, Constant Flow, Constant Temperature, Constant Level
<b>Multi-pump:</b>	up to 8 pumps
<b>Enclosure:</b>	IP55/NEMA 4
<b>Working temperature:</b>	-4°/+122°F (-20°/+50°C)
<b>Communication protocols:</b>	MODBUS® RTU, BACnet MS/TP
<b>Features:</b>	IE5 synchronous motor
<b>Mobile app:</b>	Bluetooth®

## e-82X Smart Pump Specifications

<b>Standby flow rate:</b>	up to 1375 GPM (312 m <sup>3</sup> /hr) <sup>1</sup>
<b>Head:</b>	up to 358 ft (109 m) <sup>1</sup>
<b>Temperature of pumped liquid:</b>	up to 225°F (107°C)
<b>Maximum operating pressure:</b>	175 psi (12 bar)
<b>Environment temperature:</b>	-4°F to 122°F (-20°C to 50°C)

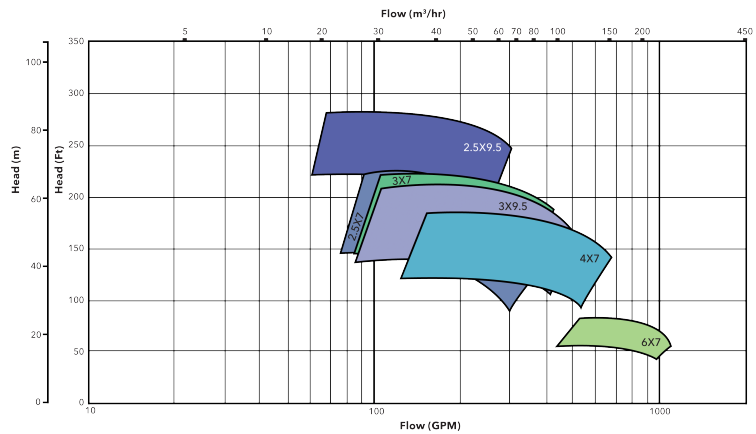
<sup>1</sup> at 4000 rpm

## e-82X Standard Seal Types

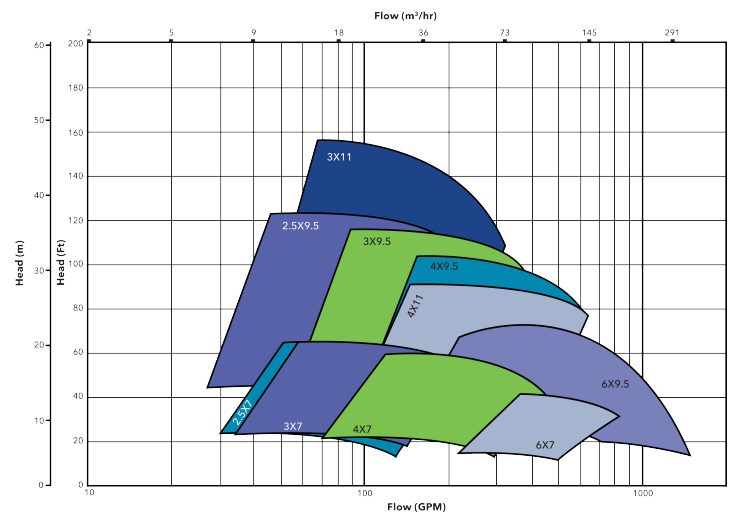
	BUNA/C/ Ceramic	EPR/SiC/SiC	EPR/C/WC
<b>Bellows</b>	BUNA	EPR	EPR
<b>Faces</b>	Carbon-Ceramic	Silicon Carbide-Silicon Carbide	Carbon-Tungsten Carbide
<b>Metals</b>	Stainless Steel or Brass	Stainless Steel or Brass	Stainless Steel
<b>Springs</b>	Stainless Steel	Stainless Steel	Stainless Steel

## e-82X Smart Pump Family Curves

High Speed Hydraulic Performance (3600 rpm)



Low Speed Hydraulic Performance (1800 rpm)



## hydrovar X Smart Motor Dimensions

Motor Power HP (kW)	NEMA Frame	H in (mm)	W in (mm)	D in (mm)
2 - 7.5 (1.5-5.5)	143-145JM	13.53 (344)	10.08 (256)	11.18 (284)
4 - 15 (3-11)	213-215JM	16.14 (410)	11.89 (302)	13.82 (351)
7.5 - 30 (5.5-22)	254-256JM	19.29 (490)	14.25 (362)	17.4 (442)

### Xylem Product Cybersecurity

Xylem values your system security and the availability of your critical services. For more information on Xylem cybersecurity practices or to contact the cybersecurity team please visit [www.xylem.com/security](http://www.xylem.com/security).



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e-82X Smart Pumps

