



## Series e-80X/e-80SCX Smart Pumps

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

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

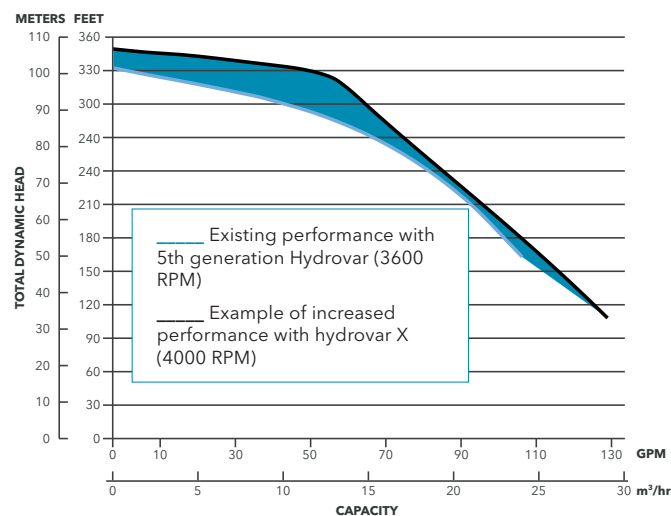
Powered by Xylem's hydrovar® X Smart Motor, e-80X (close-coupled) and e-80SCX (split-coupled) Smart Pumps offer customizable pumping solutions designed to deliver ultra-premium efficiency, connectivity, and simplicity right out of the box!

Series e-80X and e-80SCX 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-80X and e-80SCX Smart Pumps reduce electricity consumption, improve overall system performance, and lower life cycle costs. The extensive energy saving profile enables users to maintain significantly higher levels of efficiency over a much wider range of operating conditions. Designed for horizontal and vertical in-line mounting, it's ideal for hydronic heating and cooling systems, light industrial processes and general service applications.

So, when it's time to think efficiency, performance and reliable market-leading technology ... start with e-80X and e-80SCX.

## Performance

(representative example of increased performance with hydrovar X)



## Features and materials of construction:

Series e-80X and e-80SCX Smart Pumps incorporate stainless steel impellers to improve sustainable hydraulic performance, resist chemicals and reduce corrosion. They're balanced to ANSI Grade G6.3, to provide years of quiet performance and trouble-free service. Each pump includes a standard seal with a maximum working pressure of 175 psi for use on open or closed clear water systems. The back pull-out design of the e-80X and the split coupled design of the e-80SCX allow both smart pumps to be serviced without disturbing the piping, which means repairs can be made quickly and easily, and downtime is kept to a minimum.



### Materials of Construction

Description	e-80X	e-80SCX
<b>Shaft</b>	Carbon Steel	#416 Stainless Steel
<b>Volute</b>	Cast Iron ASTM A48 Class B	Cast Iron ASTM A48 Class B
<b>Impeller</b>	ASTM A743 Grade CF8 (304SS)	ASTM A743 Grade CF8 (304SS)
<b>Shaft Sleeve</b>	#304 Stainless Steel	Not applicable
<b>Impeller Key</b>	#304 Stainless Steel	#304 Stainless Steel
<b>Impeller Washer</b>	HRPO Carbon Steel	HRPO Carbon Steel
<b>Impeller Lock Washer</b>	#304 Stainless Steel	#304 Stainless Steel
<b>Impeller Capscrew</b>	#304 Stainless Steel	#304 Stainless Steel
<b>Volute Gasket</b>	Cellulose Fiber	Cellulose Fiber
<b>Seal Assemblies</b>	Inside Flushed	Inside Flushed

### e-80X/e-80SCX Seal Options

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

\* e-80SCX utilizes an EPR elastomer. e-80X utilizes a BUNA elastomer  
 \*\* Not available for e-80SCX  
 \*\*\* e-80SCX pumps are provided with inside seal arrangements only

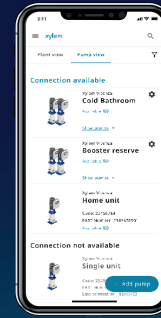
# Unleash the power of hydrovar X!

## 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.

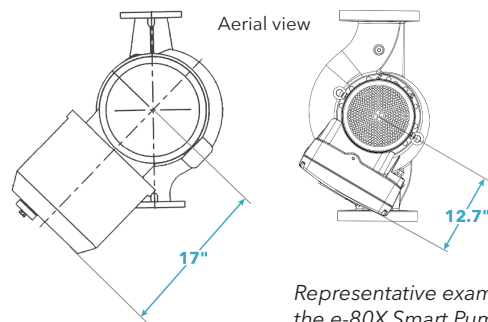
**Easy service:** VFD and/or motor can be easily replaced individually, minimizing downtime and expensive repair.

**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.



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.



Representative example of the e-80X Smart Pump only.

The e-80X Smart Pump is 25% smaller than the legacy e-80 ITSC (3x3x11B, 254JM motor frame)

# 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/NEMA4
<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-80X/e-80SCX Smart Pump Specifications

<b>Flow rate:</b>	Up to 1400 GPM (318 m³/hr)
<b>Head:</b>	Up to 428 ft (130 m)
<b>Temperature of pumped liquid:</b>	Up to 250°F (121°C)
<b>Maximum operating pressure:</b>	175 psi (12 bar)
<b>Environment temperature:</b>	-4°F to 122°F (-20°C to 50°C)

## 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)
2 - 7.5 (1.5-5.5)	143-145TC	11.38 (289)	10.08 (256)	11.18 (284)
4 - 15 (3-11)	213-215TC	13 (329)	11.89 (302)	13.82 (351)
7.5 - 30 (5.5-22)	254-256TC	15.75 (400)	14.25 (362)	17.4 (442)

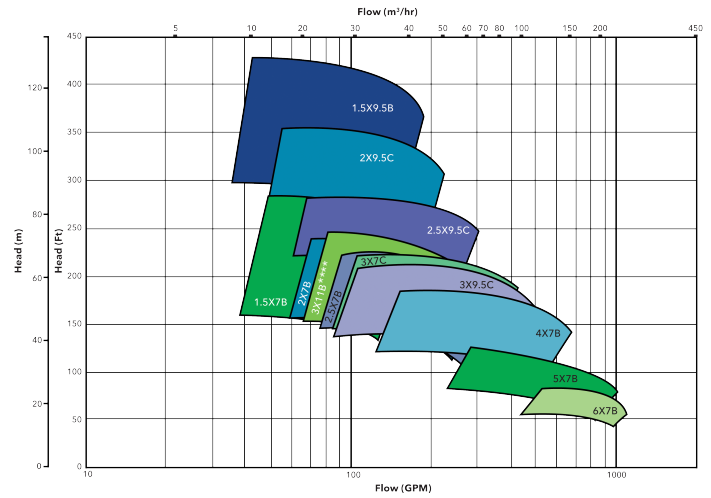


### Xylem Product Cybersecurity

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).

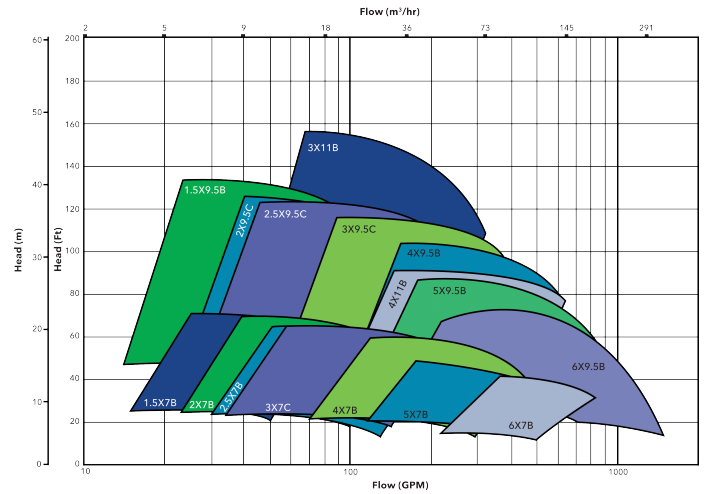
## e-80X/e-80SCX Smart Pump Family Curves

### High Speed Hydraulic Performance



\*\*\*\*3x11B is unavailable for e-80SCX in high speed operation

### Low Speed Hydraulic Performance



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Learn more about  
e-80X/e-80SCX Smart Pumps:

