



e-XC Single Stage, Double Suction Centrifugal Pumps (50 Hz)

RAISE YOUR EXPECTATIONS WITH THE IMPROVED DOUBLE SUCTION CENTRIFUGAL PUMP



Expect more with Xylem e-XC pumps

Designed and manufactured by the global leader in pumping technology, the Lowara e-XC single stage, double suction centrifugal pump provides a more powerful and efficient solution for a wide range of industrial applications including oil & gas, power generation, general industry, and mining.

It is a configurable single-stage horizontal split-case pump with extensive flow and

head coverage and a common in-line configuration for easier installation of new and retrofit pumping systems. You have a choice of construction materials to choose from, ensuring this pumping solution not only meets your demands for performance but also offers best value.

1 MORE POWERFUL.

With a top end flow rate of up to 11.400 m³/h and maximum head up to 220 m, the e-XC can easily handle medium and large capacity systems matching the needs of industrial and municipal applications.

2 TAILOR MADE.

e-XC is available in a full range of standard materials, including duplex and super duplex, alongside engineered-to-order options - making it suitable for a wide range of applications in public utilities and industrial markets.

3 LONGER RUNNING LIFE.

e-XC can run for 100.000 hours (L10) when working in its preferred operating range (POR) before the bearings need to be changed, thanks to its robust design and shorter shaft. That's up to 3 times longer than any other pump ranges.



Range overview.

Sizes: DN80 - DN800

Heads up to: 220 m

Flows up to: 11.400 m³/h

Main features.

Liquid temperature: -20 ÷ 120°C

Nominal pressure: 12 to 31 bar

Flange rating: Standard PN16,
PN25 and PN40 design



4 SECURED PROCESS.

Optional temperature and vibration sensors on the bearing bracket make real time measurement available to help predict maintenance needs. *optimize™* is available as an accessory, preventing pump breakdown and avoiding expensive downtime, thanks to predictive maintenance advice.

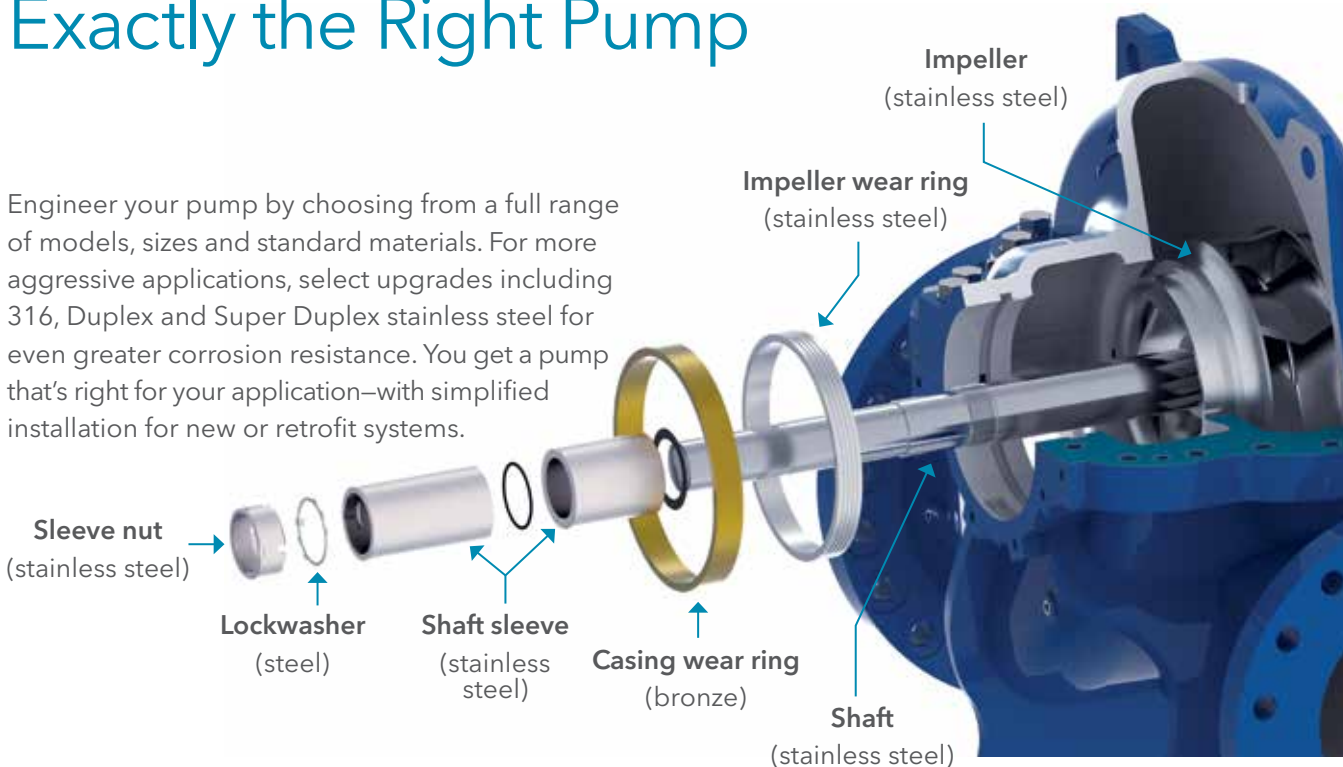
5 ENERGY SAVINGS.

With 142 different size options, and hydraulics optimised by computational fluid dynamics calculations, the e-XC range allows you to select the most efficient pump for any duty point up to more than 11.000 m³/h - leading to significant savings both in new systems and when replacing existing pumps.



More Choices to Create Exactly the Right Pump

Engineer your pump by choosing from a full range of models, sizes and standard materials. For more aggressive applications, select upgrades including 316, Duplex and Super Duplex stainless steel for even greater corrosion resistance. You get a pump that's right for your application—with simplified installation for new or retrofit systems.



Component	Standard Option	Other Available Options
Casing	<ul style="list-style-type: none"> Cast Iron¹ Ductile Iron¹ 	<ul style="list-style-type: none"> AISI 304 AISI 316 Duplex Super Duplex
Shaft (seal on shaft) ¹	<ul style="list-style-type: none"> AISI 420 	<ul style="list-style-type: none"> Duplex
Shaft (seal on sleeve)	<ul style="list-style-type: none"> AISI 5140 	<ul style="list-style-type: none"> 4135
Impeller	<ul style="list-style-type: none"> AISI 304 	<ul style="list-style-type: none"> AISI 316 Duplex Super Duplex
Casing wear rings	<ul style="list-style-type: none"> Bronze C90300 	<ul style="list-style-type: none"> AISI 304 AISI 316 Duplex Super Duplex Nitronic 60
Impeller wear rings	<ul style="list-style-type: none"> AISI 304 	<ul style="list-style-type: none"> AISI 316 Duplex Super Duplex
Shaft sleeves	<ul style="list-style-type: none"> AISI 304 	<ul style="list-style-type: none"> AISI 316 Duplex
Shaft sleeve nuts	<ul style="list-style-type: none"> AISI 304 	<ul style="list-style-type: none"> AISI 316 Duplex
Packing ¹	<ul style="list-style-type: none"> PTFE 	
Lantern ring ²	<ul style="list-style-type: none"> Cast Iron 	
Seal flush lines	<ul style="list-style-type: none"> AISI 304 	<ul style="list-style-type: none"> AISI 316
Mechanical seal type ³	<ul style="list-style-type: none"> Elastomer bellow Balanced Metal Pusher 	<ul style="list-style-type: none"> Packing Cartridge

The improved design and standard materials of the e-XC rival other pumps' upgrade options.

Standard e-XC features include:

- 304 stainless steel impeller to resist corrosion
- Carbon/silicon carbide seal with an EPDM elastomer to increase durability and expand application range
- Impeller wear rings and casing wear rings to protect vital pump components and reduce downtime
- Shorter shaft to extend running life
- Motor alignment screws to simplify motor and coupling installation
- Integrated measurement ports accept optional temperature and vibration sensors, to help predict maintenance

¹ According to the size

² Optional component with a standard material configuration

³ For mechanical seal material configuration details, see page 5





More Opportunities to Extend Seal Life

A wide choice of mechanical seal materials and options will minimise leakage, protect equipment from excessive wear, reduce pump maintenance costs and increase long-term cost-effectiveness. The e-XC pump comes as standard with a durable carbon/silicon carbide seal with an EPDM elastomer. This pairing enhances durability and expands the application range, or choose from a wide range of seal types and materials to fit your industrial water and fluid needs.

More Support to Promote Confidence

Xylem e-XC single stage, double suction centrifugal pumps come in so many models and materials that you can precisely configure your pump for your system. Simplify selection with our Xylect selection tool. Easily configure hydraulics, pump materials, motors and seals based on your application thanks to Xylem selection tools. We'll assemble your pump and get it on its way.

Since the proper selection and configuration of your pump is critical to long-term efficiency and dependability, you also have easy access to our pump application engineers and vast network of knowledgeable distributors. They will ensure your pump is optimised for your application and designed to deliver the long-lasting, reliable service that you expect.

Technical Specifications:

- Number of models: 142
- Maximum flow: 11.400 m³/hr
- Maximum head: 220 m
- Flow discharge: up to 800 mm
- Nominal pressure: 12 to 31 bar
- Flange rating: Standard PN16, PN25, PN40 design
- Temperature range: -20°C to 120°C
- Available in 50 Hz and 60 Hz
- Standard mechanical seals: rubber bellow or balanced metal pusher
- Optional seals: packing, cartridge or custom solutions
- Eight (8) standard alignment jacking screws for easier motor alignment (IEC 132 motor frame size and larger)
- Three (3) vibration ports
- Two (2) temperature ports



More Features to Improve Performance, Efficiency – and Your Bottom Line

1 Mechanical Seal Extends Life

Wide range of types and materials to handle critical industrial applications. Durable carbon/silicon carbide with EPDM elastomer seal is standard. Xylem's proprietary mechanical seals available on demand.

2 Stainless Steel Impeller Reduces Downtime

Standard 304 stainless steel impeller resists corrosion from process fluids to boost performance. For more aggressive applications, upgrade to 316, Duplex, or Super Duplex stainless steel.

3 Impeller and Casing Wear Rings Increase Efficiency

Standard wear rings protect against abrasion and debris, reduce downtime and simplify maintenance while avoiding costly impeller or casing replacement. Impeller wear rings are standard with any impeller combination.

4 Casing Material Options Add Flexibility

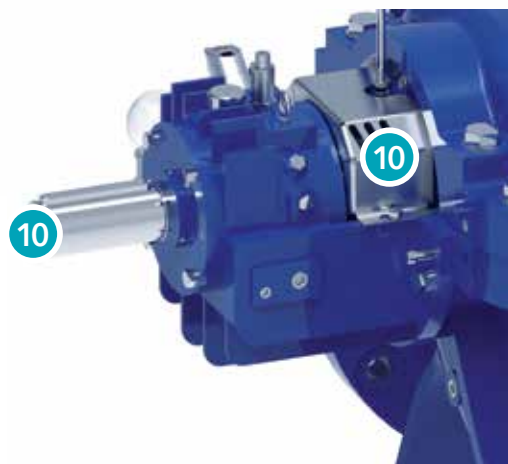
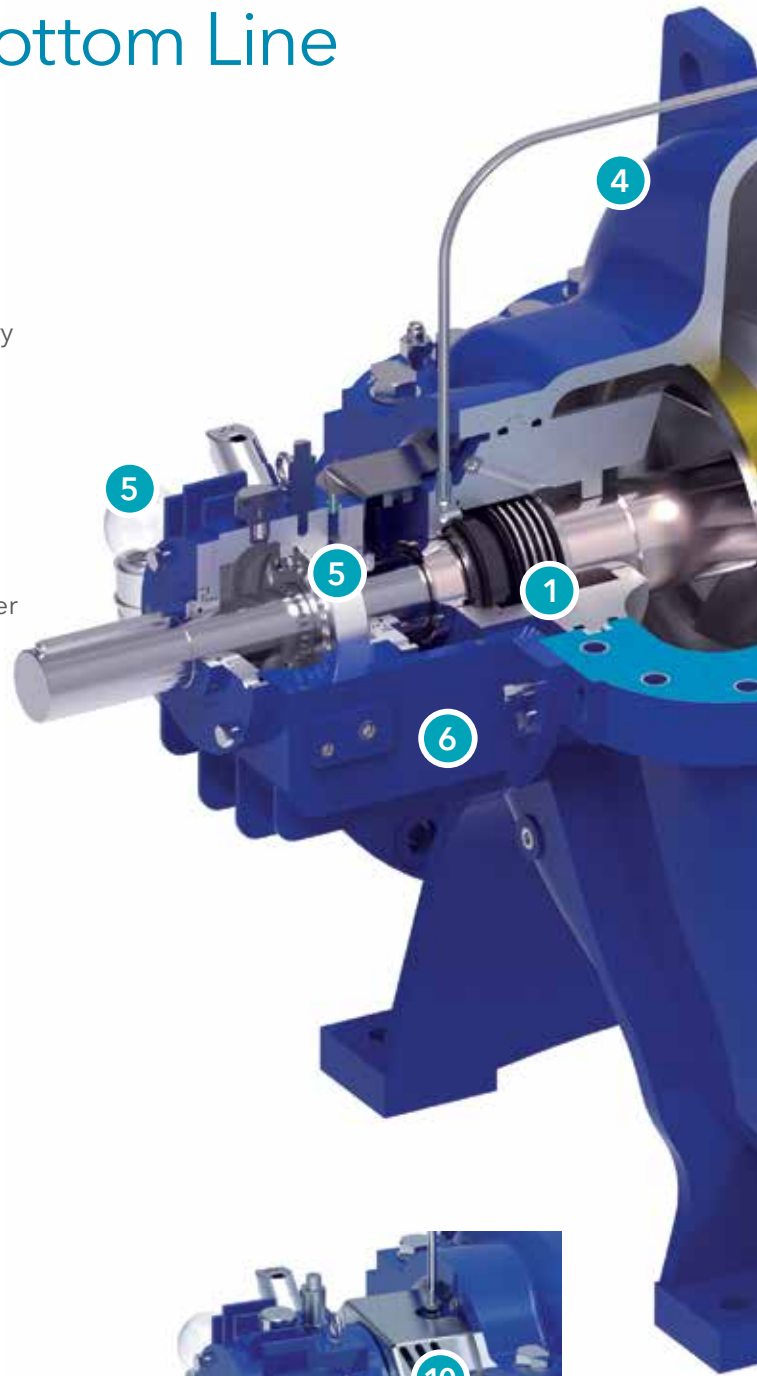
Standard casing options include cast iron or ductile iron. Customize with 304, 316, Duplex, or Super Duplex stainless steel to meet your operating environment demands.

5 Labyrinth Seal Strengthens Protection

A bearing frame labyrinth seal comes standard, protecting against wear, heat, frictional power loss and debris. Prevent leakage and ensure a cleaner, safer work environment while minimising maintenance and extending pump life.

6 Monitoring Ports Increase Visibility

Every e-XC pump contains dual axis vibration and temperature sensor ports, as standard. Optional sensor interfaces can be connected to plant control systems for enhanced monitoring and diagnostics. Catch issues early to prevent failures and provide peace of mind.





7 Shaft Sleeve Minimises Repair Costs

Easily replaced sleeves minimise shaft wear from corrosive and abrasive liquids, reducing repair and/or replacement costs. Standard is 304 stainless steel; upgrade to 316, Duplex, or Super Duplex stainless steel for aggressive environments.

8 Flush Line Extends Seal Life

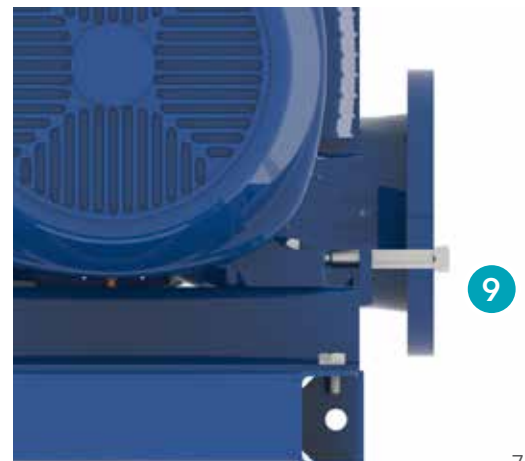
Robust, corrosion-resistant stainless steel external flush line makes it easy to clean and cool the mechanical seal, extending seal life. Standard is 304 stainless steel; upgrade to 316 for more demanding applications.

9 Motor Alignment Screws Speed Up Installation

Eight standard screws take the hassle out of motor and coupling installation.

10 Shaft and Coupling Guards Support Safety

Ensure safety despite exposed shaft design at no extra cost. Guard components reduce noise while protecting operators from high-speed rotating elements.



optimize™

Condition monitoring to optimise your bottom line

The optimize™ modular condition monitoring solution provides health guidance and predictive maintenance advice for rotating and fixed assets such as pumps, motors, heat exchangers and steam traps. It periodically monitors system vibration and temperature and allows everyday users to access simple-to-use monitoring tools from iOS or Android mobile devices.

Using predictive analysis, optimize™ identifies potential problems with your equipment before they occur, to help you manage system reliability and maintenance. Information is monitored, collected, stored and analyzed in the optimize™ sensor. This allows you to understand the current health and historical trends of your assets, create maintenance reminders and generate detailed reports. As a result, you can perform preventative maintenance before issues become critical to uptime.

Benefits

- Predictive maintenance to monitor the health of mechanical and electrical assets
- Asset management including asset location, size and manufacturing date
- System transparency to optimise reliability
- Optimised reporting that helps to simplify documentation, manage system maintenance and inform purchasing
- The ability to automatically share data with multiple local users
- Conveniently monitor system conditions on our simple-to-use mobile application

Applications

- Monitoring the vibration of pumps and motors
- Monitoring the temperature of pump bearings
- Monitoring the temperature of motors to prevent overheating and winding damage

- Monitoring the performance of heat exchangers
- And more



More Visibility Providing Peace of Mind

Every e-XC pump contains dual axis vibration and temperature sensor ports to help manage the operating efficiency of your pump and establish preventative maintenance protocols. Multiple sensor monitoring ports for pressure, vibration and temperature are standard. Sensors are also available as optional accessories for added pump condition monitoring.



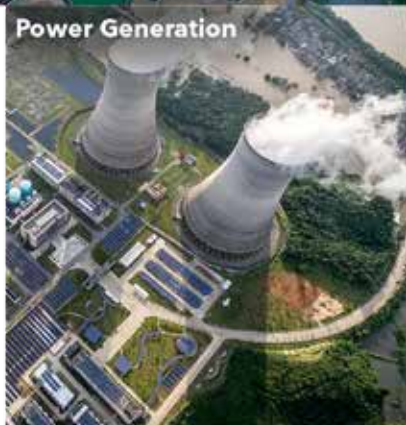
PolyPump Ltd

Providing your pumping solutions

sales@polypump.co.uk
01296 488 294

More Options to Suit Even More Applications

For more than a century, Xylem's pump technologies and solutions have satisfied customers all over the world. The e-XC pump continues that tradition, taking industrial thinking to a new level with more options, more materials and a broader hydraulic range. Here are just a few of the markets and applications where we're helping customers solve their most complex water and fluid management challenges.



Applications

- Water intake
- Water transfer and circulation
- Pressure boosting
- Process cooling and heating
- Industrial building cooling and heating
- Industrial fluid transfer and transport
- Produced water transfer and boosting
- Boiler feed booster
- Water park applications

Pumped Fluids

- Groundwater
- Potable water
- Process water
- Grey/used water
- Seawater
- Brackish water
- Industrial fluids
- Heat transfer fluids
- Produced water
- Solvents/oil

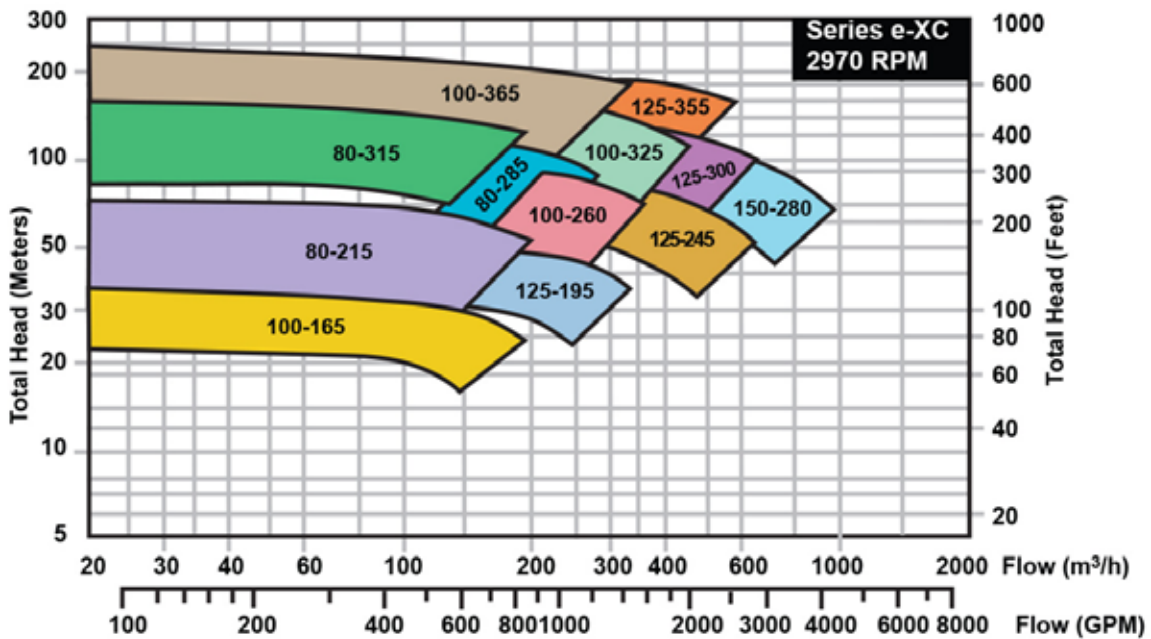


More Sizes Equals More Opportunities

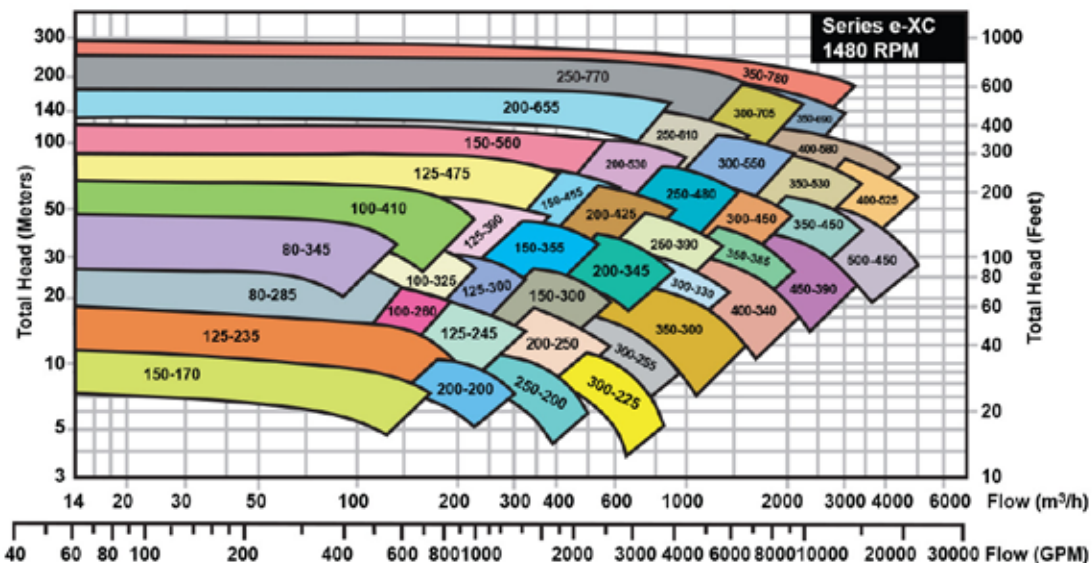
Performance. Efficiency. Broad hydraulic range.

The e-XC split case pump offers a broad hydraulic range, efficiency and a wide variety of sizes. More sizes equal more opportunities to optimise efficiency for your application. Whether your system requires small or large capacity, we have the right pump for you.

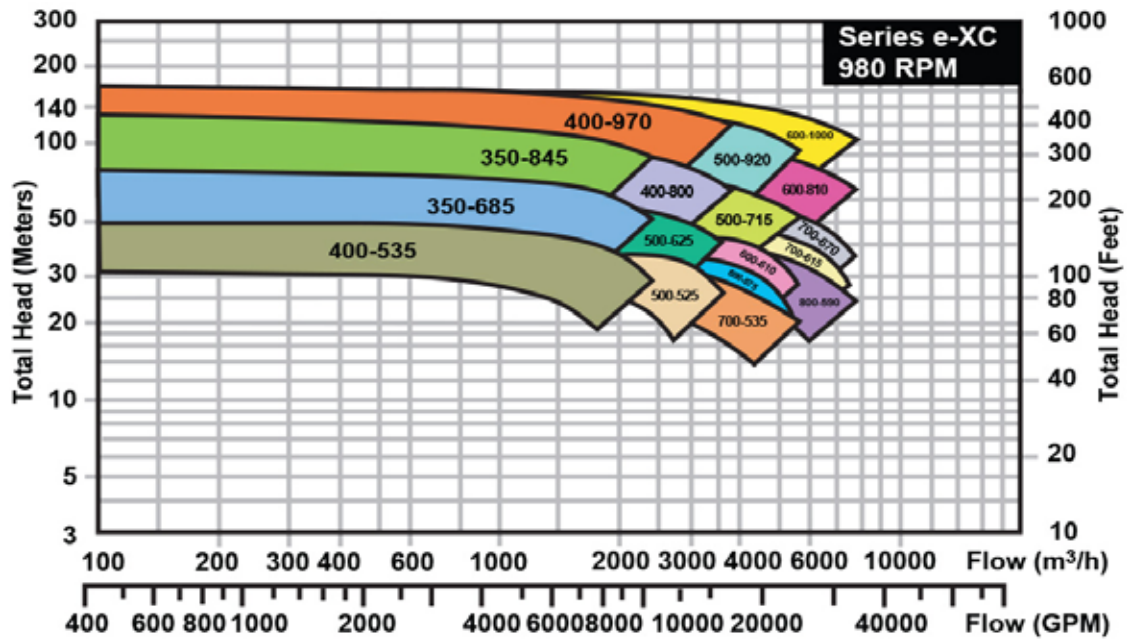
2 poles - 50 Hz



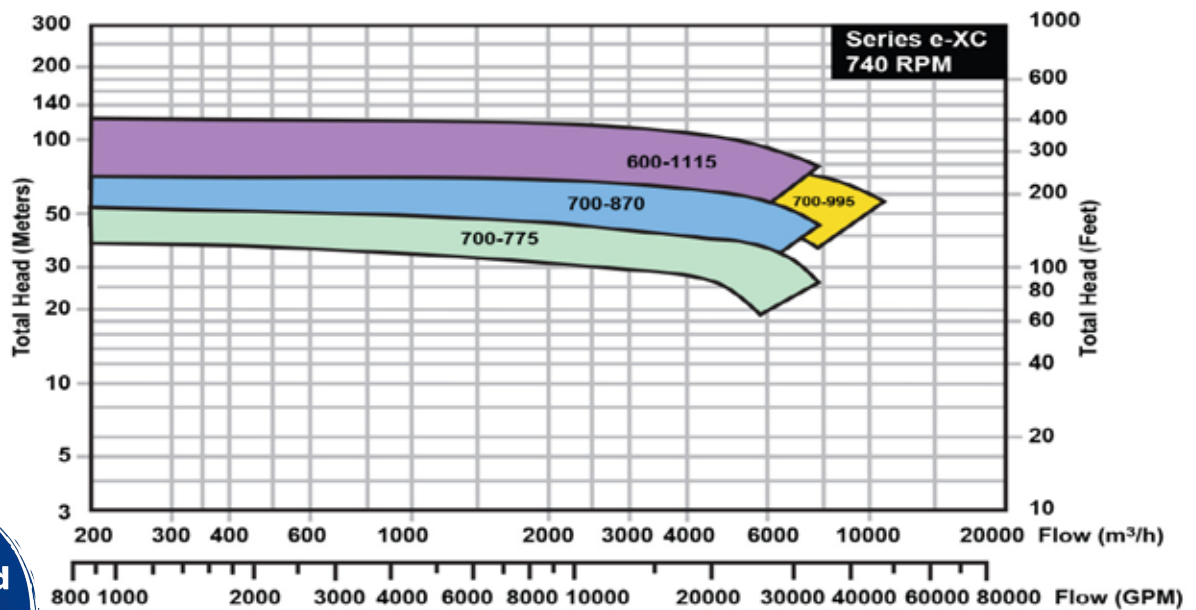
4 poles - 50 Hz



6 poles - 50 Hz



8 poles - 50 Hz



Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

We're a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced analytics solutions for water, electric and gas utilities. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise with a strong focus on developing comprehensive, sustainable solutions.

For more information on how Xylem can help you, go to www.xylem.com



www.xylem.com/lowara

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