

Pioneering for You

*Energy savings solutions for HVAC applications – North America.*

## High Efficiency Pumps & Circulators

Stratos ECO, Stratos/D/Z/GIGA, Helix Excel



# Wilo

## Pioneering for You.



### **We are there for you worldwide.**

Since 1872, we at Wilo have been turning visionary ideas into intelligent solutions that regularly set new standards in the industry. Louis Opländer, the founder of Wilo, used his copper and brass goods factory to improve and facilitate the supply of water and bring heat to people. In 1928, he designed the world's first circulation accelerator and revolutionized the field of heating technology. Ever since then, our company continues to pioneer innovations such as the world's first high-efficiency pump for heating, air-conditioning and cooling and the world's first decentralized pump system. Today Wilo SE, headquartered in Germany, is one of the world's leading manufacturers of pumps and pump systems for heating, air-conditioning and cooling, water supply and sewage disposal. With over 7,000 employees and 70 subsidiaries worldwide, we personally see to it that our customers wants and needs are optimally met every day – with pioneering developments, high-efficiency products, and tailored solutions.



### **We are there for you locally.**

Wilo is synonymous throughout the world with the tradition of first-class German engineering. Just over a decade ago, Wilo entered into America. With a manufacturing facility in Thomasville, Georgia and headquarter offices in Rosemont, Illinois, Wilo USA continues to drive new technology and innovation into the United States pump & systems market.

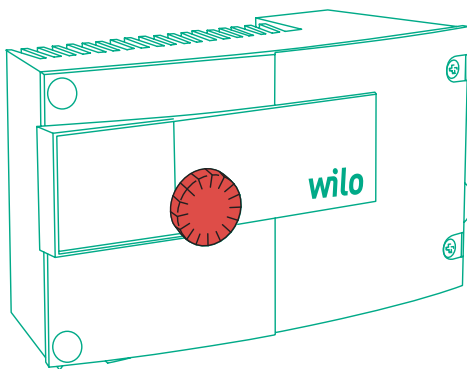
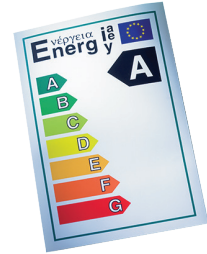
**That's what we call Pioneering for You.**

# Wilo High Efficiency Pumps

The world's first high efficiency circulator!

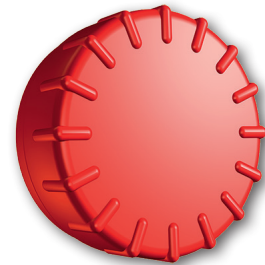
## Twice the efficiency thanks to ECM Technology.

Energy is a valuable commodity. This is why Wilo created the world's first high-efficiency circulator in 2001. With the help of ECM technology, this efficient, functional and flexible pump for heating, cooling, and air conditioning reduces annual power consumption by up to 80%. Standing for Electronically Commutated Motor, ECM essentially comprises a synchronous motor with a permanent magnet rotor. The unique rotor-stator construction helps eliminate electrical losses.



## Simple to operate.

The proven “red button” makes Wilo ECM pumps very simple and comfortable to operate. Whether you need to set your head, flow, or choose a control mode, all essential functions can be controlled by this one button.

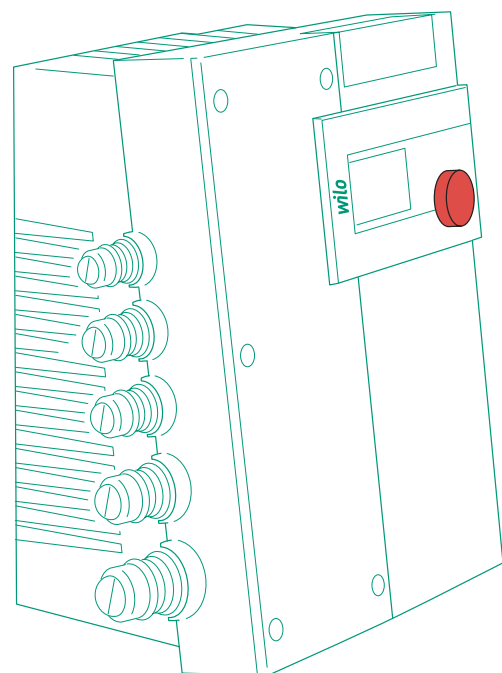


## Simple display.

The front-mounted LCD display shows important operational data for technicians to read whenever necessary. The Wilo IR-monitor can be used to operate by remote control and read its data from up to 30 feet away.

## Simple to wire.

Wilo offers the right functionality for every application. In addition to issuing standard collective error messages, Wilo high efficiency pumps can be optionally connected to local operating networks (LON), IF (interface) modules with integrated dual-pump management, and 0-10V DC capabilities. With these additions, Wilo fulfills all requirements for professional building management.



# Wilo Stratos ECO

## High Efficiency Circulators

**Applications:**

- Hot Water Heating Systems
- HVAC Applications
- Residential Heating
- Water/Glycol up to 50%
- Solar / Geothermal



**Up to 80% Energy Savings!\***

**Features & Benefits**

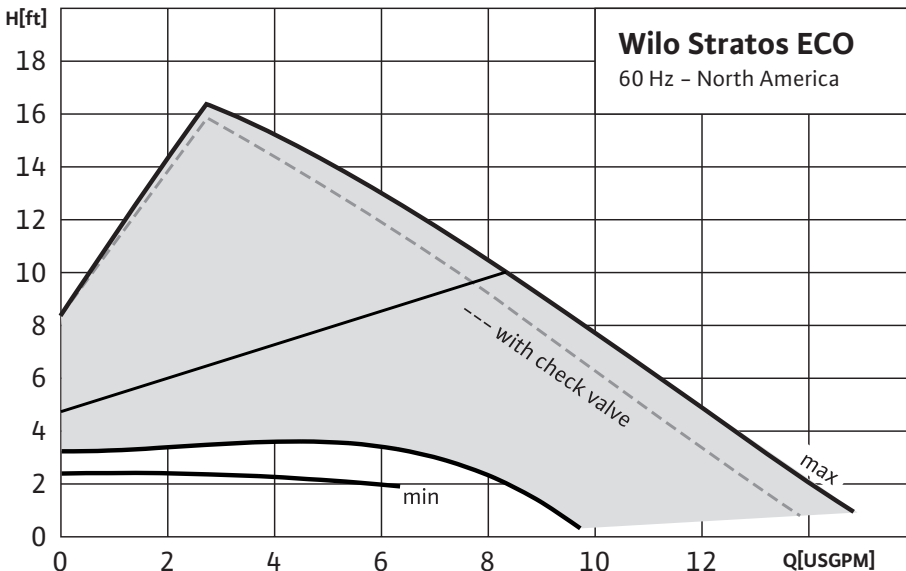
- Patented 360° Flange rotates to 12/6 or 3/9 o'clock positions (US 8,297,664 B2)
- Installable hi-temp check valve included
- EC motor technology reduces energy consumption by up to 80%
- Automatically adjusts to system demands
- No more over-pumped, noisy zones
- Easy wiring quick connectors

**Technical Data**

- Temp Range: 60°F to 230°F (15°C to 115 °C)
- Amb Temp Range: 14°F to 104°F (-10°C to 40 °C)
- Electrical Connection: 1~115v
- Max Working Pressure: 145 PSI
- Max flows: 14 USGPM
- Max Head: 16 feet

**Materials of Construction**

- Cast Iron Volute
- Cast Iron Rotating Flange
- Engineered Composite Impeller
- Stainless Steel Shaft
- Carbon Impregnated Bearing



\*Compared to an uncontrolled circulator.

# Wilo Stratos

## High Efficiency Circulators

**Applications:**

- Hot Water Heating Systems
- Closed Cooling Circuits
- Air Conditioning systems
- Water/Glycol concentrations up to 50%
- Solar / Geothermal



### Up to 80% Energy Savings!\*

**Features & Benefits**

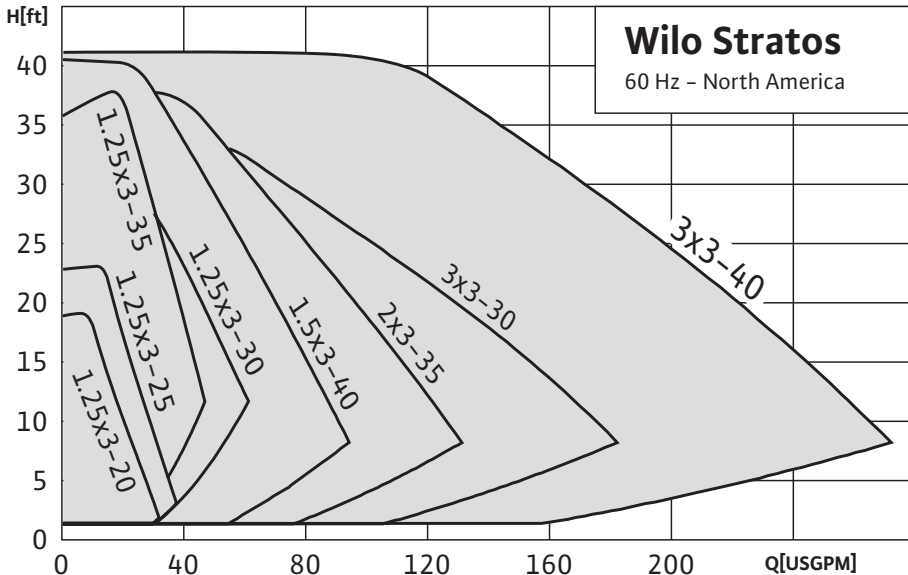
- EC motor technology reduces energy consumption by up to 80%
- ‘Red Button’ technology and LED display
- 3 times higher starting torque than a standard circulator
- On-board diagnostics and data logger
- Multiple control modules available for integration with building management systems

**Technical Data**

- ΔP-V, ΔP-C, ΔP-T speed control or external signals with IF module.
- Temp Range: 14°F to 230°F (-10°C to 110°C)
- Electrical Connection: 1~208/230v (+/- 10%)
- Max flows: 285 USGPM
- Max Head: 43 feet

**Materials of Construction**

- Cast Iron, Cataphoresis Coated Volute
- Engineered Composite Impeller
- Stainless Steel Shaft
- Carbon Impregnated Bearing



Compatible with IR Device & IF Modules



\*Compared to an uncontrolled circulator.



# Wilco Stratos D

## High Efficiency Circulators

**Applications:**

- Hot Water Heating Systems
- Closed Cooling Circuits
- Air Conditioning Systems
- Solar / Geothermal



### Up to 80% Energy Savings!\*

**Features & Benefits**

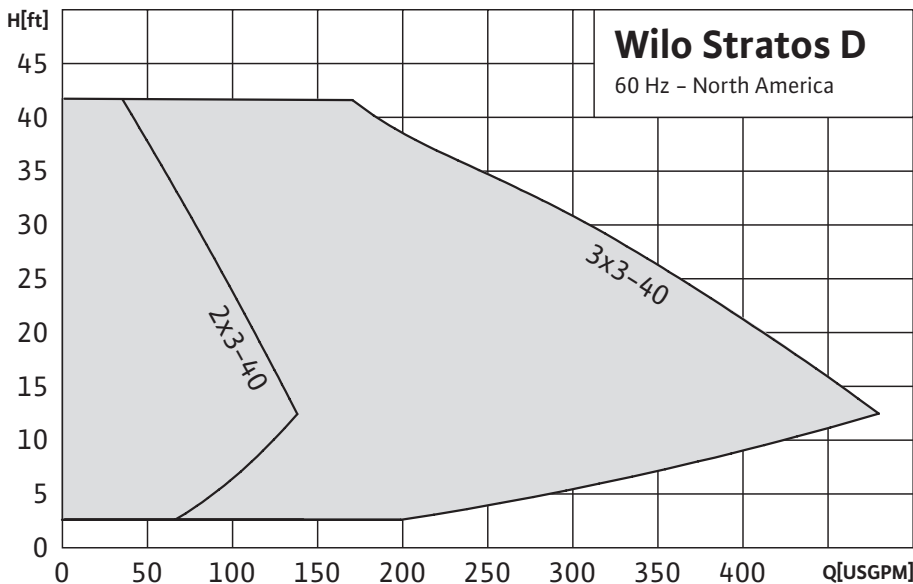
- EC motor technology reduces energy consumption by up to 80%
- 'Red Button' technology and LED display
- Lead/Lag operation with auto 24-hr alternation
- Dual-volute design cuts installation costs by up to 50%
- Optimized peak load operation

**Technical Data**

- $\Delta P$ -V,  $\Delta P$ -C,  $\Delta P$ -T speed control or external signals with IF module.
- Temp Range: 14°F to 230°F (-10°C to 110°C)
- Electrical Connection: 1~208/230v (+/- 10%)
- Max flows: 480 USGPM
- Max Head: 43 feet

**Materials of Construction**

- Cast Iron, Cataphoresis Coated Volute
- Composite Impeller
- Stainless Steel Shaft
- Carbon, Metal Impregnated Bearing



Compatible with IR Device & IF Modules



\*Compared to an uncontrolled circulator.

# Wilo Stratos Z

## High Efficiency DHW Circulators

**Applications:**

- Potable Water
- Domestic Hot Water
- Closed Cooling Circuits
- HVAC Systems
- Solar / Geothermal



### Up to 80% Energy Savings!\*

**Features & Benefits**

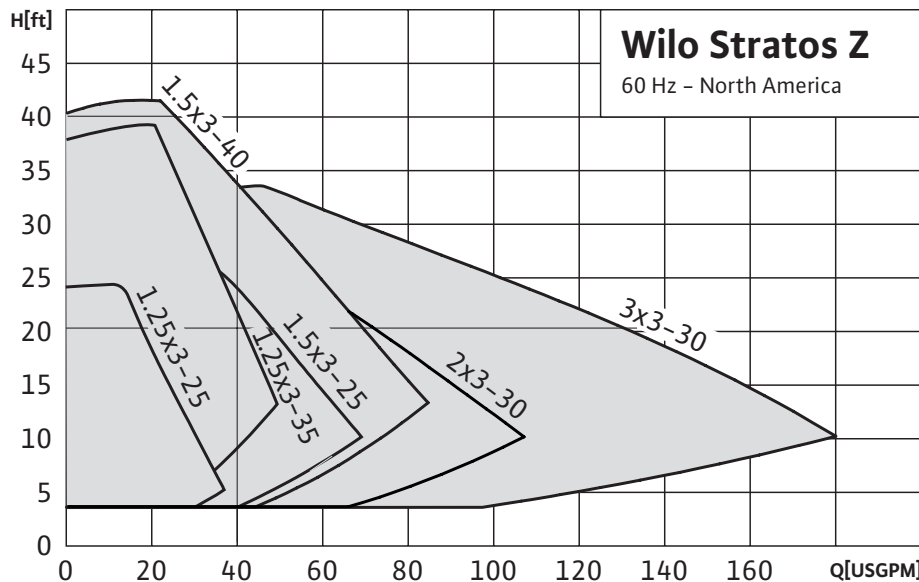
- NSF 61 / NSF 372 Certified
- EC motor technology reduces energy consumption by up to 80%
- 'Red Button' technology and LED display
- Multiple control modules available for integration with building management systems
- Built in overload fault contacts (opens on over/under voltage, dry run, locked rotor, overload and over temperature)

**Technical Data**

- $\Delta P$ -V,  $\Delta P$ -C,  $\Delta P$ -T speed control or external signals with IF module.
- Temp Range: 14°F to 230°F (-10°C to 110°C)
- Electrical Connection: 1~208/230v (+/- 10%)
- Max flows: 180 USGPM
- Max Head: 43 feet

**Materials of Construction**

- Stainless Steel Volute
- Engineered Composite Impeller
- Stainless Steel Shaft
- Carbon Impregnated Bearing



Compatible with IR Device & IF Modules



\*Compared to an uncontrolled circulator.

# Wilo Stratos GIGA

## High Efficiency Inline Circulators

**Applications:**

- Hot Water Heating Systems
- Industrial Circulation
- Closed Cooling Circuits
- Air Conditioning Systems
- Solar / Geothermal



### Up to 70% Energy Savings!\*

**Features & Benefits**

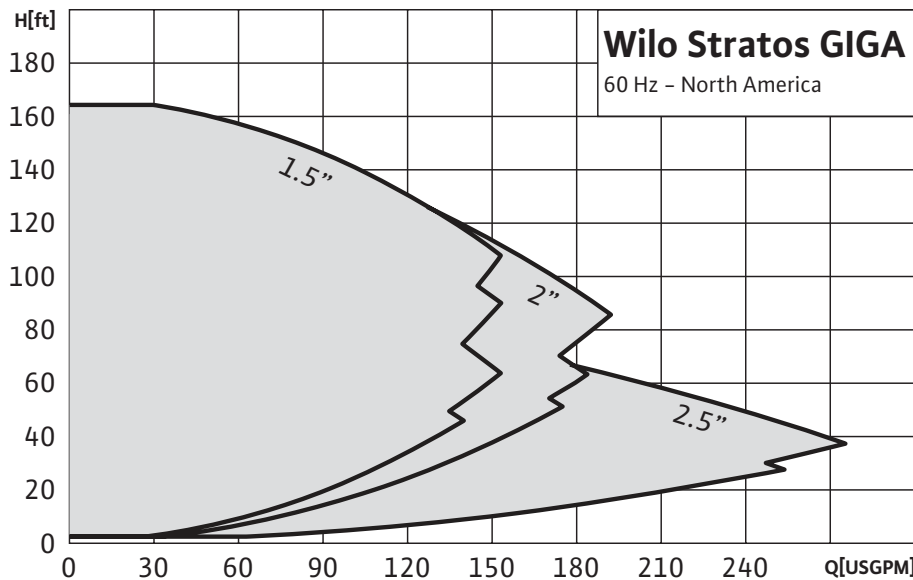
- Highest efficiency motor-drive combination on the market up to 7.5HP
- Compact, Space-saving design
- 'Red Button' technology and LED display
- Various control modes:  $\Delta PV$ ,  $\Delta PC$ ,  $\eta$ , PID
- Multiple control modules available for integration with building management systems

**Technical Data**

- Temp Range: -4°F to 284°F (-20°C to +140°C)
- Max Amb Temp: 104°F (40°C)
- Max Operating Pressure: 232 PSI
- Electrical Connection: 3~460v
- IP 55 Enclosure
- Max flows: 275 USGPM
- Max Head: 167 feet

**Materials of Construction**

- Cast Iron, Cataphoresis Coated Volute
- Cast Iron Lantern
- High-Temp, High-Pressure Engineered Composite Impeller
- Stainless Steel Pump Shaft



**Greater than NEMA Premium Efficiencies!**



Compatible with IR Device & IF Modules



\*Compared to an uncontrolled circulator.



# Wilo Helix Excel

## High Efficiency Multistage Pumps

**Applications:**

- Water Supply and Pressure Boosting
- Process water
- Pressure Washing Systems
- Industrial Circulation Systems
- Cooling water
- Irrigation



### Up to 70% Energy Savings!\*

**Features & Benefits**

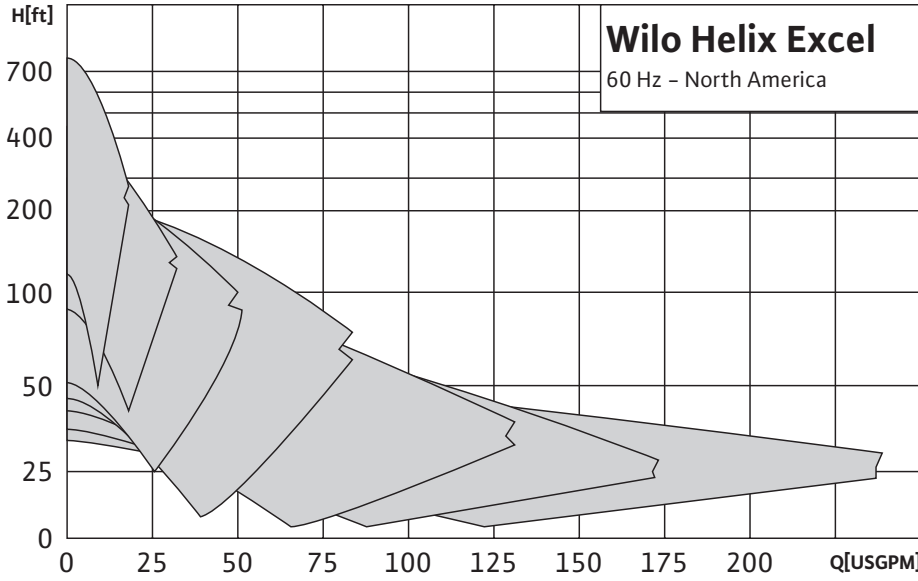
- Highest efficiency motor-drive combination on the market
- Uses cartridge seal for easy maintenance
- ‘Red Button’ technology and LED display
- Various control modes:  $\Delta PV$ ,  $\Delta PC$ ,  $\eta$ , PID
- Multiple control modules available for integration with building management systems

**Technical Data**

- Temp Range: -4°F to 248°F (-20°C to +120°C)
- Max Amb Temp: 104°F (40°C)
- Max Operating Pressure: 232/363 PSI
- Electrical Connection: 3~460v
- IP 55 Enclosure
- Max flows: 250 USGPM
- Max Head: 720 feet

**Materials of Construction**

- 3-D Stainless Impellers
- Stainless Steel Volute, Shroud & Shaft



### Greater than NEMA Premium Efficiencies!



Compatible with IR Device & IF Modules



\*Compared to an uncontrolled pump.

# Wilo Accessories

## IR Device & IF Modules



### IR (Infrared) Device.

**Infrared (IR) Device**  
 Window's based USB device that allows you to communicate with Stratos, D/Z/GIGA & Helix Excel pumps through a laptop via USB connection.

Quick and easy pump commissioning & diagnostic reports.



### IF (Inter-Face) Modules.

The Stratos IF-Modules are designed for external control and diagnostics of Wilo high efficiency pumps.

Stratos IF Modules						
Function/Models	LON	Ext. Off	Exr. Min	SBM	Ext. Off / SBM	BACnet / RS485
Collective run signal output (SBM) as a voltage-free, normally open contacts				X	X	
Input for voltage-free, normally closed contacts with the function Ext. Min			X			
Input for voltage-free, normally closed contacts with the function Ext. Off		X			X	
Control input 0-10 V Remote setpoint adjustment Remote speed adjustment		X	X	X		
DP interface for dual pump management of 2 single-head pumps	X	X	X	X	X	X
LON interface for link-up to LONWORKS-networks, Transceiver FTT 10 A	X					
BACnet						X



# “Wilo has a four-year warranty on Stratos products?”

## “The best in the industry...”



Now you can have the best warranty in the business on Wilo Stratos, Stratos D and Stratos Z high efficiency ECM circulators!

That's right - Our standard warranty on select Stratos products is now 4 YEARS. We are so sure that the Stratos is the last circulator you'll need, that we've doubled the original two year warranty. Drop us a line and join the thousands who rest easy with Wilo!

T 888-945-6872 | [www.wilo-usa.com](http://www.wilo-usa.com)



Wilo-Stratos



Wilo-Stratos D



Wilo-Stratos Z

Pioneering for You

**wilo**®



10-54-001-0614

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