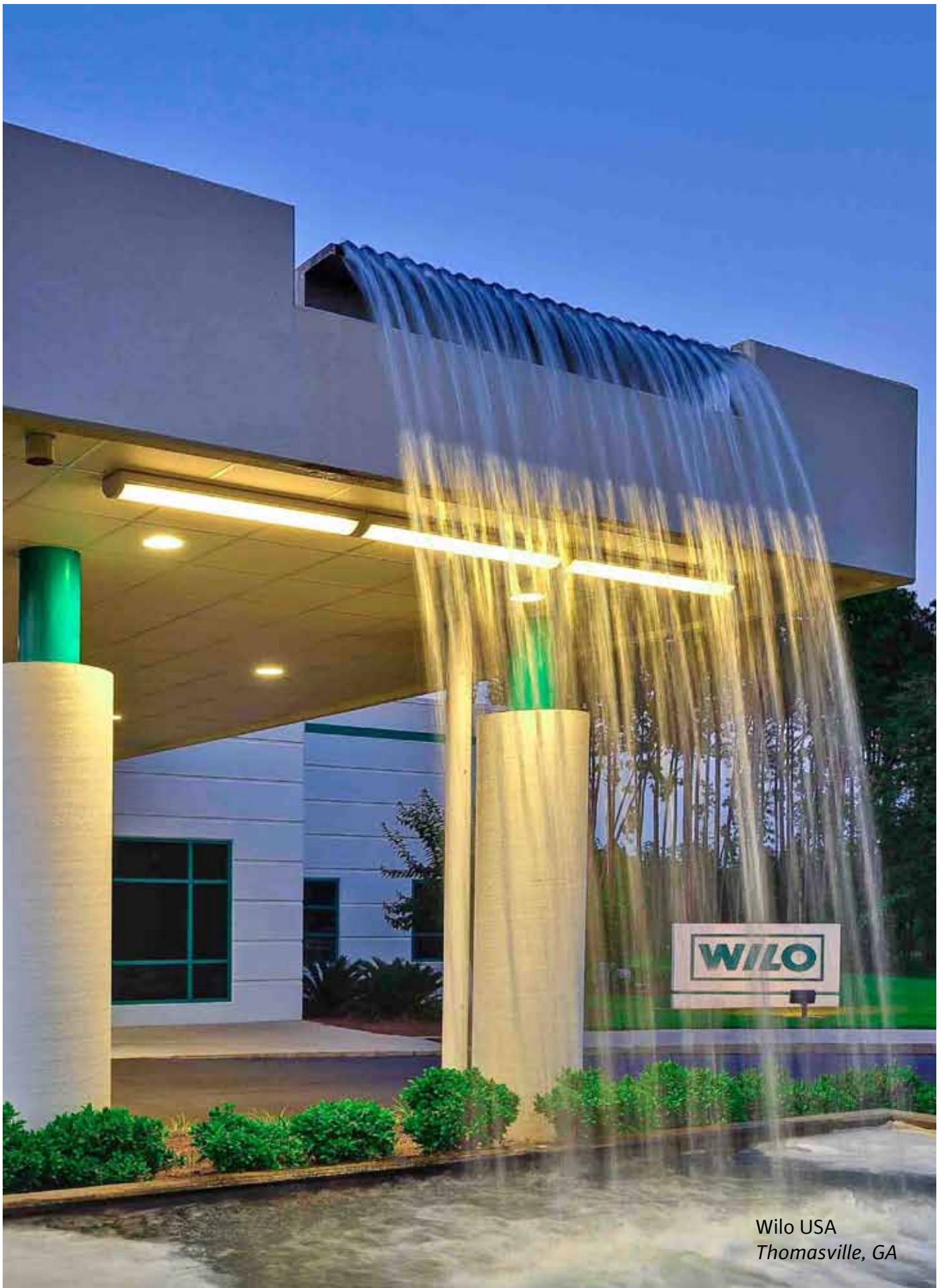


## Wilo USA Product Catalog

Pumps and Systems for Building Services,  
Water Management and Groundwater.



2013



Wilo USA  
Thomasville, GA

# Contents



## Wilo

**from page 4**

A new look.  
Energy Solutions Division.  
Wilo Worldwide.



## Building Services

**from page 9**

Pumps and pump systems for heating, air conditioning, cooling, pressure boosting, water supply and sewage disposal in domestic households, rented accommodation, administrative and commercial buildings.



## Water Management

**from page 27**

Pumps and pump systems for water supply, sewage disposal and sewage treatment in municipal buildings.



## Groundwater

**from page 33**

Submersible pumps for water supply from water wells, agriculture, dewatering and industrial applications.

# Shaping the future. For you.

A new logo.  
A fresh look.  
A strong promise.

This year we will not only extend our range of pioneering product innovations, but we will also unveil a new appearance. The first indication is the further development of our logo. Over the next few months, you will also encounter a fresh look and a brand new Wilo claim: "Pioneering for You".

## Why have we done this?

Simply put, because we have changed. Over the past few years, Wilo has become a larger, more dynamic and international company. We continue to stand for the most innovative pumps and pump systems. We offer our customers extensive services and solutions which simplify their lives each and every day. We are passionate about our pioneering technology and unmatched quality. In all our efforts, however, the basis is simply a focus on one thing: People.

Our new look is the most visual sign of this change and our motivation to always get better. Getting better requires that we understand the needs of our customers, and fulfill them with more efficient, sustainable, and tailor-made solutions.

Let us know how our words can become actions. What do you expect from Wilo? How can we better deliver on our promise? Solutions created with you, for you, through our dedicated efforts.

Oliver Hermes  
*Chairman of the Executive Board*  
Wilo SE



# Energy Solutions Division

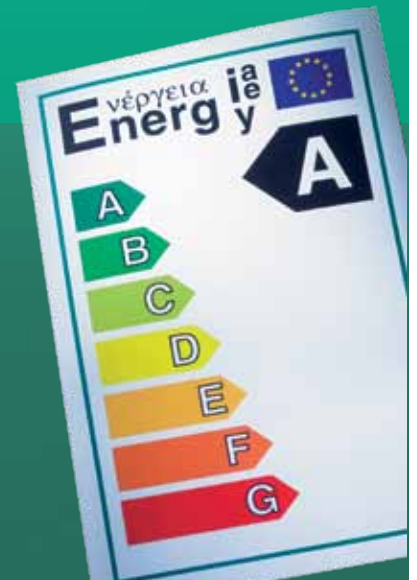
**wilo**<sup>®</sup>  
ESD

The Energy Solutions Division at Wilo USA is dedicated to finding energy-efficient solutions for our customers and our business partners. Under our Customer First Initiative (WC1i), we focus on providing customized services to our clients based upon their unique needs, while always striving to put their best interests first. Whatever your needs, the Energy Solutions Division will work closely with you to find energy-efficient pumping solutions that make sense.

## **Products & Services:**

- Can provide a complete turnkey pumping solution
- Product selection & application review
- Data logging, energy consumption analysis, ROI analysis, LCC assessment
- Utility rebate review, coordination, submission, & collection
- Installation & commissioning
- Service contracts & extended warranties (can be bundled and customized)
- Remote Monitoring
- And of course, high-efficiency pumps and pump systems

For more information on ESD, please contact Steve at:  
[steve.maney@wilo-usa.com](mailto:steve.maney@wilo-usa.com)



# Worldwide.

## High-efficiency solutions from Wilo.



- Production Sites:**
- Germany (5)
  - France (3)
  - England (2)
  - Ireland (1)
  - India (3)
  - China (2)
  - South Korea (1)
  - USA (1)

WILO SE, with headquarters in Dortmund, is one of the world's leading manufacturers of pumps and pump systems for heating, air conditioning and cooling technology, as well as for water supplies, sewage treatment and disposal. Founded in 1872, as a manufacturer of copper and brass goods, Wilo currently has over 60 branches worldwide and over 6,700 employees.

International recognition has increased rapidly since the company became a European limited liability company (SE) in 2008. In 2011, turnover amounted to \$1.45B USD. Wilo pumps and systems set global standards for efficiency and technical performance with high-efficiency solutions for all applications.

Wilo SE  
Dortmund, Germany



Wilo patented the world's first circulation accelerator in 1928.







**Maritim Hotel  
Hannover, Germany**

Up to 93% energy savings. 90 pumps were installed.

There are 83 high-efficiency pumps for heating, air-conditioning, and cooling in operation. The amortization by switching to high efficiency pumps needed proof in a very short time. For this purpose extensive measurements took place. The first results are very impressive.



*Wilo Stratos GIGA*



## Product Overview.

### Building Services.



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#### GreenRoom™ Boiler Room Accessories

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*Zone Relays, Zone Valves, Expansion Tanks, Air Scoop, Air Vent*

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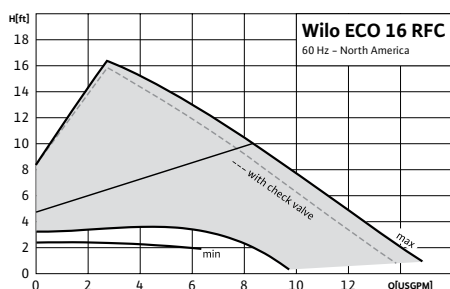
*DHW Accessories, Cast Iron/Bronze Flanges, Replacement Parts, Ball Valve Kits*

## High Efficiency Circulators



### Wilo Stratos ECO RFC

High Efficiency Wet Rotor Circulators



#### Application

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

#### Max. Flow

14 USGPM

#### Max. Head

16 feet

#### Features and Benefits

- Patent-pending 360° Flange rotates to 12/6 or 3/9 o'clock positions
- Installable hi-temp check valve included
- ECM 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

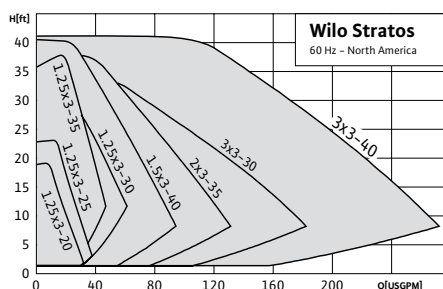
#### Materials of Construction

- Cast Iron Volute
- Cast Iron Rotating Flange
- Polypropylene Impeller
- Stainless Steel Shaft
- Carbon, Metal Impregnated Bearing
- Glass filled Noryl + EPDM Check Valve



### Wilo Stratos

High Efficiency Circulators



#### Application

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

#### Max. Flow

285 USGPM

#### Max. Head

43 feet

#### Features and Benefits

- ECM 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 or ΔP-C constant speed control modes standard. ΔP-T available with IR device
- Temp Range: 14°F to 230°F (-10°C to 110°C)
- Electrical Connection: 1~208/230v (+/- 10%)

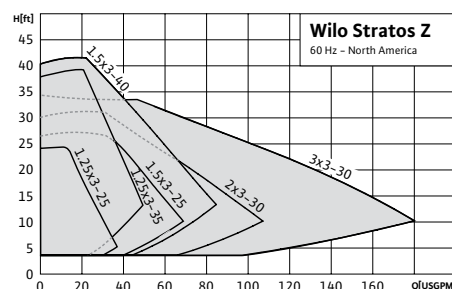
#### Materials of Construction

- Cast Iron, Cataphoresis Coated Volute
- Fiberglass Reinforced Plastic Impeller
- Stainless Steel Shaft
- Carbon, Metal Impregnated Bearing



### Wilo Stratos Z

High Efficiency DHW Circulators



#### Application

- Domestic Hot Water
- Closed Cooling Circuits
- HVAC Systems
- Industrial Circulation
- Solar
- Geothermal

#### Max. Flow

180 USGPM

#### Max. Head

43 feet

#### Features and Benefits

- NSF 61 / Annex G Certified
- ECM motor technology reduces energy consumption by up to 80%
- 'Red Button' technology and LED display
- Interface modules available for external control
- Remote access to on-board data logger with optional USB infra-red device
- Built-in overload fault contacts

#### Technical Data

- ΔP-V or ΔP-C constant speed control modes standard. ΔP-T available with IR device
- Temp Range: 14°F to 230°F (-10°C to 110°C)
- Temp Range: 32°F to 176°F (0°C to 80°C)
- Electrical Connection: 1~208/230v (+/- 10%)

#### Materials of Construction

- Stainless Steel Volute
- Composite Impeller
- Stainless Steel Shaft
- Carbon, Synthetic Resin Impregnated Bearing



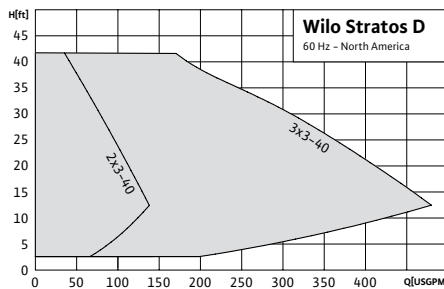
**Wilco Stratos D**  
High Efficiency Circulators



**Wilco Stratos GIGA**  
High Efficiency Inline Circulators



**Wilco IR Device & IF Modules**  
Stratos Accessories



## Application

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

**Max. Flow**  
480 USGPM

**Max. Head**  
43 feet

## Features and Benefits

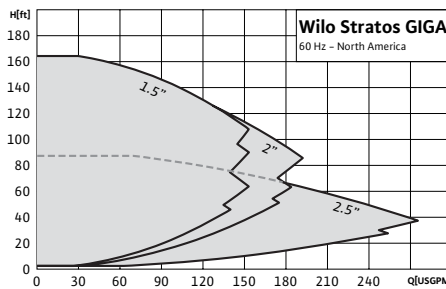
- ECM motor technology reduces energy consumption by up to 80%
- 3x higher starting torque
- Lead/Lag operation with auto 24-hr alternation
- 'Red Button' technology and LED display
- On-board diagnostics and data logger
- 7 different control modules available

## Technical Data

- $\Delta P-V$ ,  $\Delta P-C$ , or constant speed control modes standard.  $\Delta P-T$  control mode available with IR device
- Temp Range: 14°F to 230°F (-10°C to 110°C)
- Electrical Connection: 1~208/230v (+/- 10%)

## Materials of Construction

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



## Application

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

**Max. Flow**  
275 USGPM

**Max. Head**  
167 feet

## Features and Benefits

- ECM motor technology reduces energy consumption by up to 80%
- Available in glanded construction mechanical shaft seal and flanged connections
- Integrated electronic power adjustment
- Compact and space-saving design
- 'Red Button' technology and LED display
- Control modules available for building automation

## Technical Data

- $\Delta P-V$ ,  $\Delta P-C$ , or constant speed control modes standard.  $\Delta P-T$  control mode available with IR device
- Temp Range: -4°F to 284°F (-20°C to +140°C)
- Electrical Connection: 3~460v
- NEMA Enclosure

## Materials of Construction

- Cast Iron, Cataphoresis Coated Volute
- Cast Iron Volute & Lantern
- Polypropylene Impeller
- Stainless Steel Pump Shaft
- Various Mechanical Seals (available on request)

## Infrared (IR) Device

Allows you to communicate with Stratos, D/Z/GIGA pumps through a laptop via USB connection.

## InterFace (IF) Modules

Available Modules:

- External Min / 0-10v DC / Dual Pump
- External Off / 0-10v DC / Dual Pump
- SBM Run Signal / 0-10v DC / Dual Pump
- SBM Run Signal / Ext. Off / Dual Pump
- LON Interface / Dual Pump
- BACnet / Dual Pump
- Modbus Interface



## Cast Iron Circulators



### Wilo Star S 21 RFC

3 Speed Circulator with Rotating Flange and Installable Check Valve



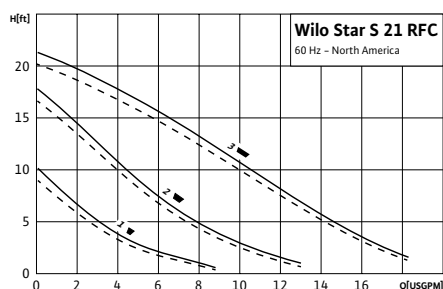
### Wilo Star S

3 Speed Wet Rotor Circulators



### Wilo Star Cast Iron

Single Speed Wet Rotor Circulators



#### Application

- Hot Water Heating Systems
- Cold Water
- Air-Conditioning Systems
- Water/Glycol concentrations up to 50%
- Solar
- Geothermal

#### Max. Flow

19 USGPM

#### Max. Head

21 feet

#### Features and Benefits

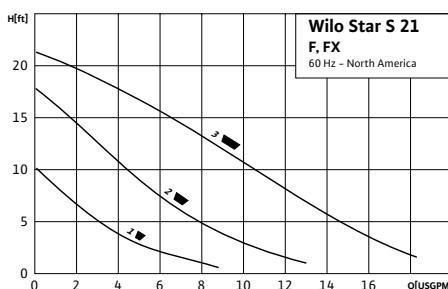
- Reliable wet rotor technology
- Patent-pending 360° Flange rotates to 12/6 or 3/9 o'clock positions
- Installable hi-temp check valve included
- Quick connect wiring
- Fits all competitor's models
- Powerful starting torque
- Ultra quiet
- Automatically vented

#### Technical Data

- Max Temp Range: 14°F to 230°F (-10°C to 110°C)
- Max Amb Temp: 104°F (40°C)
- Electrical Connection: 1~115v
- Max Working Pressure: 140 PSI (10 Bar)

#### Materials of Construction

- Cast Iron Volute
- Engineered Composite Impeller
- Stainless Steel Shaft
- Carbon, Metal Impregnated Bearing
- Steel Terminal Box



#### Application

- Hot Water Heating Systems
- Cold Water
- Air-Conditioning Systems
- Water/Glycol concentrations up to 50%
- Solar
- Geothermal

#### Max. Flow

19 USGPM

#### Max. Head

21 feet

#### Features and Benefits

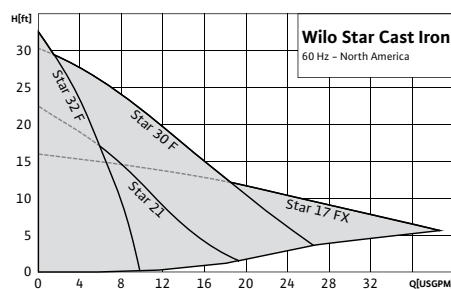
- Reliable wet rotor technology
- Quick connect wiring
- Fits all competitor's models
- Powerful starting torque
- Ultra quiet
- Optional check flange
- Automatically vented

#### Technical Data

- Max Temp Range: 14°F to 230°F (-10°C to 110°C)
- Max Amb Temp: 104°F (40°C)
- Electrical Connection: 1~115v
- Max Working Pressure: 140 PSI (10 Bar)

#### Materials of Construction

- Cast Iron Volute
- Engineered Composite Impeller
- Stainless Steel Shaft
- Carbon, Metal Impregnated Bearing
- Steel Terminal Box



#### Application

- Hot Water Heating Systems
- Cold Water
- Air-Conditioning Systems
- Water/Glycol concentrations up to 50%
- Solar
- Geothermal

#### Max. Flow

38 USGPM

#### Max. Head

32 feet

#### Features and Benefits

- Reliable wet rotor technology
- Quick connect wiring
- Fits all competitor's models
- Powerful starting torque
- Ultra quiet
- Optional check flange
- Automatically vented

#### Technical Data

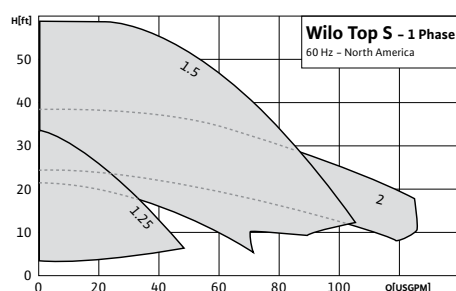
- Max Temp Range: 14°F to 230°F (-10°C to 110°C)
- Max Amb Temp: 104°F (40°C)
- Electrical Connection: 1~115v
- Max Working Pressure: 140 PSI (10 Bar)

#### Materials of Construction

- Cast Iron Volute
- Engineered Composite Impeller
- Stainless Steel Shaft
- Carbon, Metal Impregnated Bearing
- Steel Terminal Box



**Wilo Top S – 1 Phase**  
Commercial Wet Rotor Circulators



#### Application

- All types of Hot Water Systems
- Closed Cooling Circuits
- Air Conditioning Systems
- Industrial Circulation
- Water/Glycol concentrations up to 50%
- Solar / Geothermal

**Max. Flow**  
125 USGPM

**Max. Head**  
59 feet

#### Features and Benefits

- No mechanical seal
- Quiet, low maintenance wet rotor circulator
- Two-speed operation on all voltages
- Automatically vented
- Cataphoresis coating prevents corrosion
- Sturdy cast aluminum electrical box
- Short flange to flange dimension
- Most extensive wet rotor line in the industry!

#### Technical Data

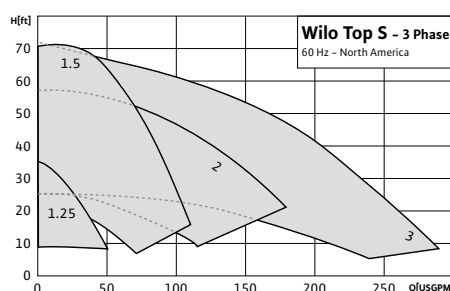
- Max Temp Range: 14 to 248°F (–10 to 120°C)
- Amb Temp Range: 32°F – 104°F (0°C – 40°C)
- Electrical Connection: 1~115v, 1~230v
- Max Working Pressure: 145 PSI (10 Bar)

#### Materials of Construction

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



**Wilo Top S – 3 Phase**  
Commercial Wet Rotor Circulators



#### Application

- All types of Hot Water Systems
- Closed Cooling Circuits
- Air Conditioning Systems
- Industrial Circulation
- Water/Glycol concentrations up to 50%
- Solar / Geothermal

**Max. Flow**  
290 USGPM

**Max. Head**  
70 feet

#### Features and Benefits

- No mechanical seal
- Quiet, low maintenance wet rotor circulator
- Two-speed operation on all voltages
- Automatically vented
- Cataphoresis coating prevents corrosion
- Sturdy cast aluminum electrical box
- Short flange to flange dimension
- Most extensive wet rotor line in the industry!

#### Technical Data

- Max Temp Range: 14°F 248°F (–10°C to 120°C)
- Amb Temp Range: 32°F – 104°F (0°C – 40 °C)
- Electrical Connection: 3~208–230v, 460v, 575v
- Max Working Pressure: 145 PSI (10 Bar)

#### Materials of Construction

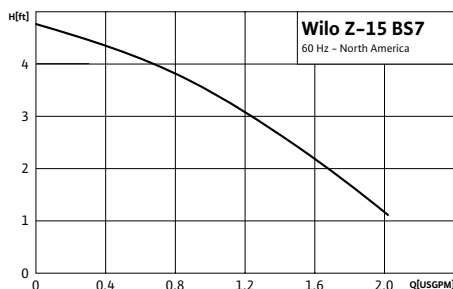
- Cast Iron, Cataphoresis Coated Volute
- Engineered Composite Impeller
- Stainless Steel Shaft
- Carbon, Metal Impregnated Bearing
- Class H Insulation

## Bronze Circulators



### Wilco Z-15 Domestic Hot Water Circulator

### Wilco DHW Accessories Jet Valve, Digital Timer, Fitting Pack & Aquastat



#### Jet Valve

- Mounts under the sink for instant hot water
- Adjustable temperature setpoint screw
- Conserves water

#### Digital Timer

- Weekly digital timer
- Large LCD display
- Conserves energy

#### Application

- Domestic Hot Water Recirculation

**Max. Flow**  
2 USGPM

**Max. Head**  
5 feet

#### Features and Benefits

- NSF 61 / Annex G Certified
- Compact design
- 115v power cord included
- Magnetic drive design
- Jet Connect™ fitting pack included
- Optional digital timer available
- Conserves energy and water
- Safe and quick installation

#### Jet Connect™ Fitting Pack

- Package of four (4) connectors to handle all types of piping
- Two (2) 1/2" SW x FNPT
- Two (2) 3/4" SW x FNPT
- Two (2) 3/4" SW x 1/2" SW Reducing Bushings
- Two (2) 3/4" Street Hub Copper Unions

#### Aquastat

- Clips directly on the 3/4" pipe to control your DHW circulator
- 8' Line cord
- Turns on at 98°F (36°C)
- Turns off at 114°F (46°C)

#### Technical Data

- Max Temp Range: 68°F to 150°F (20°C to 65°C)
- Max Amb Temp: 104°F (40°C)
- Max Working Pressure: 145 PSI (10 Bar)

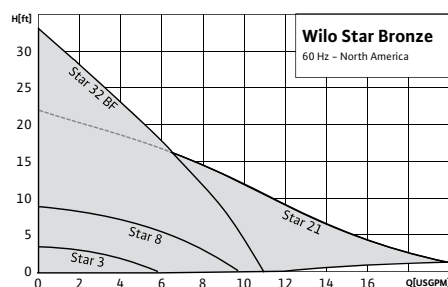
#### Materials of Construction

- NSF 61 / Annex G Certified Brass Volute
- Plastic PPE (Noryl) Impeller
- Stainless Steel Shaft
- Epoxy-Impregnated Carbon Bearing





**Wilo Star Bronze**  
Bronze Wet Rotor Circulator



#### Application

- Cold Water systems
- Air-Conditioning Systems
- Open Systems – Heating or Cooling
- Industrial Circulation
- Water/Glycol concentrations up to 50%
- Solar /Geothermal

**Max. Flow**  
19 USGPM

**Max. Head**  
32 feet

#### Features and Benefits

- Reliable wet rotor technology
- Quick connect wiring
- Fits all competitor's models
- Powerful starting torque
- Ultra quiet
- Optional check flange
- Automatically vented
- Single or 3 speed models

#### Technical Data

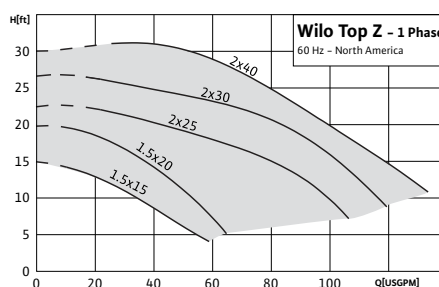
- Max Temp Range: 14°F to 230°F (-10°C to 110°C)
- Amb Temp Range: 32°F to 104°F (0°C to 40°C)
- Electrical Connections: 1~115v
- Max Working Pressure: 140 PSI (10 Bar)

#### Materials of Construction

- Bronze Volute
- Engineered Composite Impeller
- Stainless Steel Shaft
- Carbon, Metal Impregnated Bearing



**Wilo Top Z - 1 Phase**  
Bronze Circulators



#### Application

- Domestic Hot Water Circulation
- Open Systems – Heating or Cooling
- Industrial Circulation
- Water/Glycol concentrations up to 50%
- Geothermal

**Max. Flow**  
130 USGPM

**Max. Head**  
32 feet

#### Features and Benefits

- Reliable wet rotor technology
- Maintenance-free
- Short flange to flange dimension
- Low noise – 48db max!

#### Technical Data

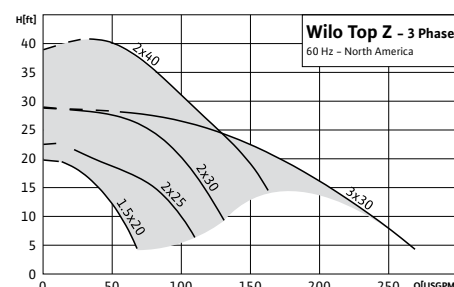
- Temp Range: 14°F to 176°F (-10°C to 80°C)
- Amb Temp Range: 32°F to 104°F (0°C to 40°C)
- Electrical Connections: 1~115v & 230v, 3~230v
- Max Working Pressure: 145 PSI (10 Bar)

#### Materials of Construction

- Bronze Volute
- 40% Glass Fiber Filled Polypropylene Impeller
- Stainless Steel Shaft
- Carbon, Metal Impregnated Bearing



**Wilo Top Z - 3 Phase**  
Bronze Circulators



#### Application

- Domestic Hot Water Circulation
- Open Systems – Heating or Cooling
- Industrial Circulation
- Water/Glycol concentrations up to 50%
- Geothermal

**Max. Flow**  
265 USGPM

**Max. Head**  
40 feet

#### Features and Benefits

- Reliable wet rotor technology
- Maintenance-free
- Short flange to flange dimension
- Low noise – 48db max!

#### Technical Data

- Temp Range: 14°F to 176°F (-10°C to 80°C)
- Amb Temp Range: 32°F to 104°F (0°C to 40°C)
- Electrical Connections: 1~115v & 230v, 3~230v
- Max Working Pressure: 145 PSI (10 Bar)

#### Materials of Construction

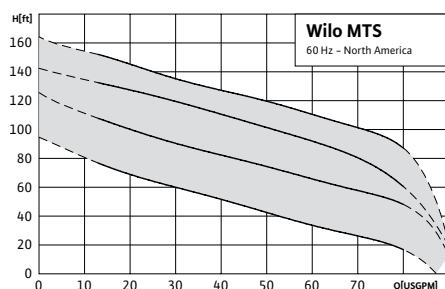
- Bronze Volute
- 40% Glass Fiber Filled Polypropylene Impeller
- Stainless Steel Shaft
- Carbon, Metal Impregnated Bearing

## Sump and Sewage



### Wilco MTS

Submersible Sewage Pumps with Macerator



#### Application

- Solids Maceration
- Sewage Handling
- Drainage
- Wastewater Treatment

#### Max. Flow

80 USGPM

#### Max. Head

165 feet

#### Features and Benefits

- Cutter design yields fine solids for nonlogging operation
- Highly efficient design means low operating costs
- Stainless steel casing for maximum corrosion resistance
- Explosion protection on MTS40 E models
- 25' cable included

#### Technical Data

- Electrical Connections: MTS 40/95: 1~230v  
MTS 40/95 - MTS 40/165: 3~230v & 460v
- Temp Range: 37°F - 104°F (3°C - 40°C)
- Insulation class F

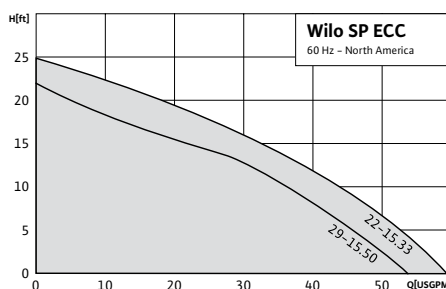
#### Materials of Construction

- Cast Iron Volute & Impeller
- Stainless Steel Macerator, Shaft & Motor Housing



### Wilco ECC

Submersible Sump Pump



#### Application

- Sump & Effluent
- De-watering
- Drainage

#### Max. Flow

58 USGPM

#### Max. Head

25 feet

#### Features and Benefits

- Replaceable piggyback tether float switch for automatic operation
- Permanent split capacitor motor with automatic thermal overload protection
- 10' power cord included
- CSA certified

#### Technical Data

- Max Solids Handling: 3/8"
- Max Fluid Temp: 77°F (25°C)
- Electrical Connections: 1~115v
- 1/2" NPT Discharge (1/4" with adaptor)

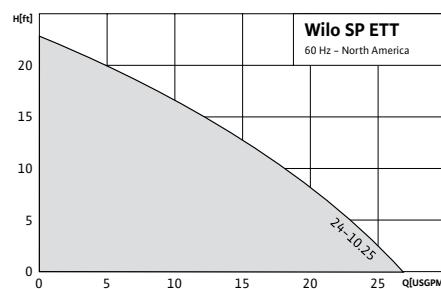
#### Materials of Construction

- Cast Iron Volute & Motor Housing
- Thermoplastic Vortex Impeller
- Stainless Steel Bottom-Screened Inlet



### Wilco ETT

Utility Pump



#### Application

- Surface De-watering
- General Utility Applications

#### Max. Flow

27 USGPM

#### Max. Head

23 feet

#### Features and Benefits

- Permanent split-capacitor motor with built-in thermal overload protection
- Internal water sensor for automatic on/off operation
- Bottom suction design can pump water down to 1/4" from surface
- 15' electrical cord included
- CSA certified

#### Technical Data

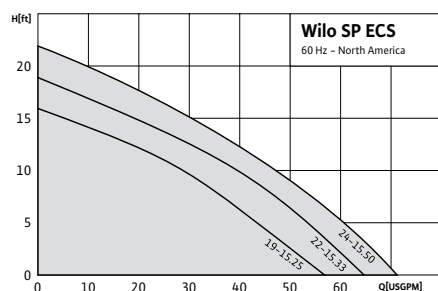
- Max Solids Handling: 1/8"
- Max Fluid Temp: 77°F (25°C)
- Electrical Connections: 1~115v
- 1" NPT Discharge, multiple adaptors

#### Materials of Construction

- Thermoplastic Volute, Motor Housing & Impeller



**Wilco ECS**  
Submersible Sump Pump



#### Application

- Sump & Effluent
- De-watering
- Drainage

**Max. Flow**  
71 USGPM

**Max. Head**  
23 feet

#### Features and Benefits

- Oil-filled motor for max heat dissipation
- Ideal for basement installations
- 10' power cord included
- CSA certified

#### Technical Data

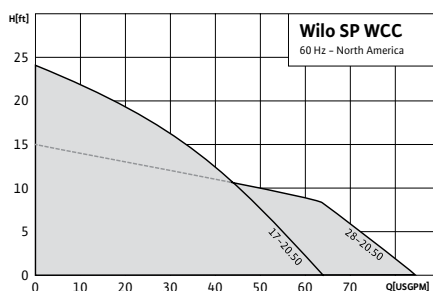
- Max Solids Handling: 1/2"
- Max Temp: 77°F (25°C)
- Electrical Connections: 1~115v
- 1 1/2" Discharge (1 1/4" adaptor included)

#### Materials of Construction

- Cast Iron Volute
- Stainless Steel Motor Housing
- Thermoplastic impeller



**Wilco WCC**  
Sewage/Effluent Pumps



#### Application

- Residential Sewage & Effluent
- Drainage

**Max. Flow**  
85 USGPM

**Max. Head**  
24 feet

#### Features and Benefits

- Replaceable piggyback tether float switch
- Oil-filled motor for maximum heat dissipation
- Built-in thermal overload protection
- 10' power cord included
- CSA certified

#### Technical Data

- Max Solids Handling: 2" (WCC17); 3/4" (WCC28)
- Max fluid temperature 130°F (55°C)
- Electrical Connections: 1~115v
- 2" NPT Discharge

#### Materials of Construction

- Cast Iron Volute & Motor Housing
- Thermoplastic impeller



**Wilco SP Series Accessories**  
Basin Packages and Check Valves

#### WCC Basin Packages

- WCC28 Basin Package  
Sewage/Effluent Pump  
Sewage Basin  
Sewage Basin Lid  
Sewage Basin Side Gasket  
2" Compression check valve  
2" PVC-Grade 40 (4')
- WCC17 Basin Package  
Sewage/Effluent Pump  
Sewage Basin  
Sewage Basin Lid  
Sewage Basin Side Gasket  
2" Compression check valve  
2" PVC-Grade 40 (4')

#### Sewage Poly Basin - 18" x 30"

- WB-18.30 18" x 30" - Sewage Poly Basin
- WB-18.30-G - Side Gasket for WB-18.30 Basin (required)
- WB-18.30-L - Lid for WB-18.30 Basin

#### Sump Poly Basin - 18" x 24"

- EB-18.24 18" x 24" - Corrugated Sump Poly Basin
- EB-18.24-L - Lid for EB-18.24 Basin

#### Check Valves

- ECV - 1 1/2" / 1 1/4" Inline Rubber-End Check Valve
- WCV - 2" Inline Rubber-End Check Valve
- ECV-C 2" Compression Check Valve



## Inline Pumps

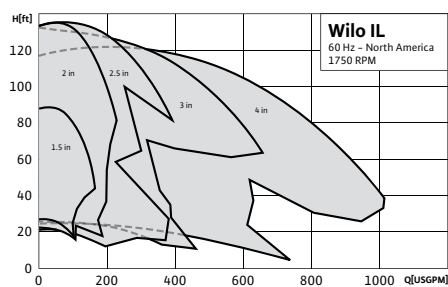


**Wilo IL 1750**  
Inline Centrifugal Circulators



**Wilo IL 3450**  
Inline Centrifugal Circulators

Extended IL  
Range 2013!



### Application

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

**Max. Flow**  
1010 USGPM

**Max. Head**  
135 feet

### Features and Benefits

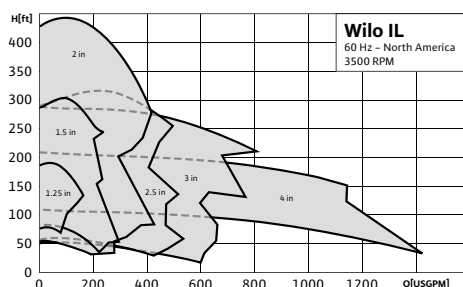
- Integral suction diffuser cast in volute inlet
- All bolts "non-metric"
- Pump feet drilled and tapped
- 125# ANSI standard flanges
- Suction and discharge pressure gauge tappings
- Integrated suction straightening vane
- All voltages available

### Technical Data

- TEFC motors standard (ODP available)
- Temp Range: 20°F to 285°F (-4°C to 140°C)
- Max Amb Temp: 104°F (40 °C)
- Electrical Connections: all

### Materials of Construction

- Cast Iron, Cathaphoresis Coated Volute
- Trimmable Bronze Impeller
- Stainless Steel Stub Shaft



### Application

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

**Max. Flow**  
1425 USGPM

**Max. Head**  
445 feet

### Features and Benefits

- Integral suction diffuser cast in volute inlet
- All bolts "non-metric"
- Pump feet drilled and tapped
- 125# ANSI standard flanges
- Suction and discharge pressure gauge tappings
- Integrated suction straightening vane
- All voltages available

### Technical Data

- TEFC motors standard (ODP available)
- Temp Range: -5°F to 285°F (-20°C to 140°C)
- Max Amb Temp: 104°F (40 °C)
- Electrical Connections: all

### Materials of Construction

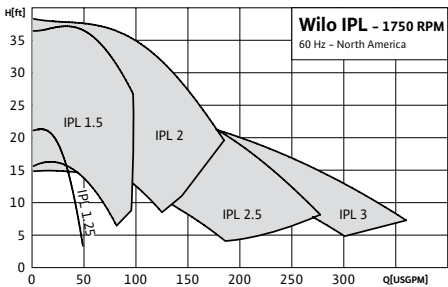
- Cast Iron, Cathaphoresis Coated Volute
- Trimmable Bronze Impeller
- Stainless Steel Stub Shaft



Wilo IPL 1750  
Inline Pumps



Wilo IPL 3450  
Inline Pumps



**Application**

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

**Max. Flow**  
360 USGPM

**Max. Head**  
38 feet

**Features and Benefits**

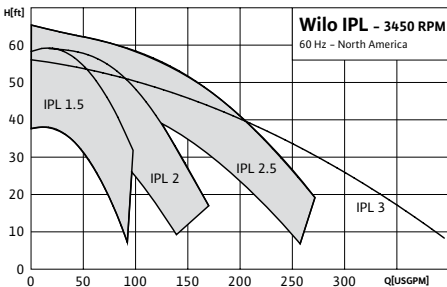
- ¼" suction and discharge pressure gauge tappings
- Pump legs drilled and tapped ⅜" SAE
- Standard NEMA frame Baldor motors
- All voltages available

**Technical Data**

- Temp Range: 15°F to 248°F (-10°C to 120°C)
- AQEGG standard mechanical seal (other seal types available)

**Materials of Construction**

- Cast Iron, Cataphoresis Coated Volute
- Noryl Impeller
- Stainless Steel Stub Shaft



**Application**

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

**Max. Flow**  
400 USGPM

**Max. Head**  
65 feet

**Features and Benefits**

- ¼" suction and discharge pressure gauge tappings
- Pump legs drilled and tapped ⅜" SAE
- Standard NEMA frame Baldor motors
- All voltages available

**Technical Data**

- Temp Range: 15°F to 248°F (-10°C to 120°C)
- AQEGG standard mechanical seal (other seal types available)

**Materials of Construction**

- Cast Iron, Cataphoresis Coated Volute
- Noryl Impeller
- Stainless Steel Stub Shaft

## End Suction and Horizontal Split Case Pumps



### Wilo NL

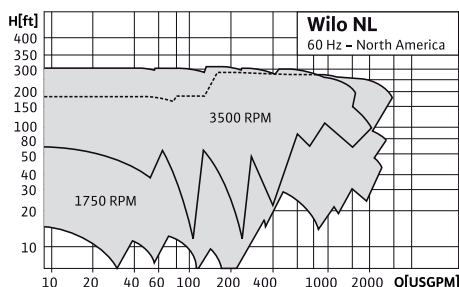
#### Base Mount End Suction Pumps

### Wilo SCP

#### Split Case Pumps

### Wilo SD & TDV

#### Suction Diffusers & Triple Duty Valves



#### Application

- Heating and Cooling Systems
- Transfer and Pressure Boosting
- Boiler Feed/Condensate
- Irrigation
- Industrial Applications

#### Max. Flow

2,500 USGPM

#### Max. Head

265 feet

#### Features and Benefits

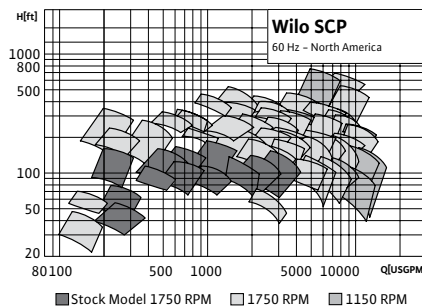
- Back pullout design allows replacement of bearings and seals without disturbing the piping
- Three bearing bracket sizes for all models
- Confined gasket between cover and casing
- Maintenance-free ZZ bearings
- Improved hydraulics for reduced vibration
- Over 50 models available

#### Technical Data

- Temp Range: -5°F to 250°F (-20°C to 121°C)
- Horsepower Range: 1-75HP (3500RPM)  
½-200HP (1750RPM)
- Flange Size Range: 1¼" to 8"
- Max Pressure: 250 PSI

#### Materials of Construction

- Cast Iron Volute
- Bronze Impeller
- Stainless Steel Shaft
- C/SiC/EPDM Mechanical Seal (other seals available upon request)
- NEMA Standard Motors



#### Application

- Heating and Cooling Systems
- Transfer and Pressure Boosting
- Boiler Feed/Condensate
- Municipal Water Supply
- Irrigation
- Industrial Applications

#### Max. Flow

15,000 USGPM

#### Max. Head

750 feet

#### Features and Benefits

- Horizontally split casing allows replacement of bearings and mechanical seal without disturbing the system piping
- Double suction design available for maximum efficiencies
- Hydraulically balanced double-suction impeller for minimal axial thrust
- Tongue & groove neck ring design eliminates seizing of rotating assembly

#### Technical Data

- Temp Range: 18°F to 250°F (-8°C to 120°C)
- Available in sizes up to 500HP

#### Materials of Construction

- 9 different material specs available
- 8 different seal types available

#### Suction Diffuser

#### Features and Benefits

- Available in 2"x 1½" through 12"x 12"
- Integrally cast stabilizing vanes
- Separate fine mesh screen surrounds each perforated screen
- Cast on pads for convenient mounting of standard I.D. support foot
- Class 125 (175 PSI)
- Efficient design results in no need for a 90° elbow, strainer or stabilizing piping
- Cast iron body

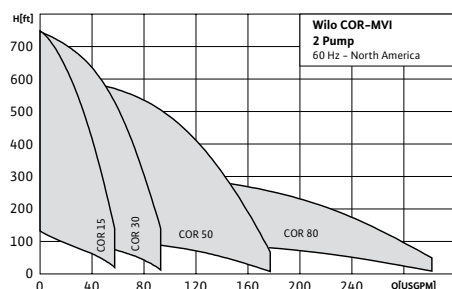
#### Triple Duty Valve

#### Features and Benefits

- Available in 1½" through 12" pipe size
- Schrader valve metering connections
- Memory stop which avoids the need for resetting after shut-down
- Plug position indicator and calibrated scale for system balancing and flow regulation
- Spring loaded non-return gate
- Dual O-ring stem seals
- Non-lubricated operation
- Bubble-tight shut-off
- In-line serviceability
- Cast iron body



**COR-MVI 2-Pump**  
Pressure Boosting Systems



For use in water supply applications requiring constant pressure, such as:

- Residential, Commercial & Industrial Buildings
- Hotels & Hospitals
- Department Stores
- Sports Arenas
- Washing /Irrigation

**Max. Flow**  
300 USGPM

**Max. Head**  
754 feet

## Features and Benefits

- Factory-programmed, packaged system
- Compact design for easy installation/retrofit
- User-friendly, multi-language LCD display
- Low maintenance costs
- System monitoring records performance
- Fixed or alternating base load pump
- Balanced run time across all pumps

## Technical Data

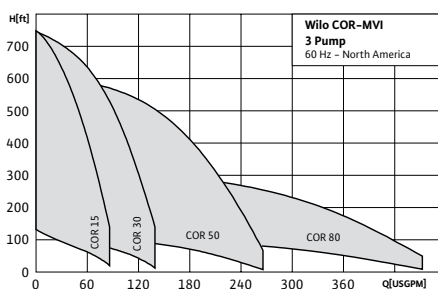
- CC Controller – NEMA 12
- VFD-Controlled Base Load Pump
- 4–20 mA, ¼" SS Pressure Transducers
- Max System Pressure: 250 PSI
- Fluid Temp Range: 30°F to 200°F (–1°C to 120°C)

## Materials of Construction

- Stainless Steel Pump Volute, Impeller, Shaft & Header
- EPDM Elastomers
- Carbon/Tungsten Carbide, SiC/Carbon Mechanical Seal
- Tungsten Carbide/Ceramic Bearing



**COR-MVI 3-Pump**  
Pressure Boosting Systems



For use in water supply applications requiring constant pressure, such as:

- Residential, Commercial & Industrial Buildings
- Hotels & Hospitals
- Department Stores
- Sports Arenas
- Washing /Irrigation

**Max. Flow**  
450 USGPM

**Max. Head**  
754 feet

## Features and Benefits

- Factory-programmed, packaged system
- Compact design for easy installation/retrofit
- User-friendly, multi-language LCD display
- Low maintenance costs
- System monitoring records performance
- Fixed or alternating base load pump
- Balanced run time across all pumps

## Technical Data

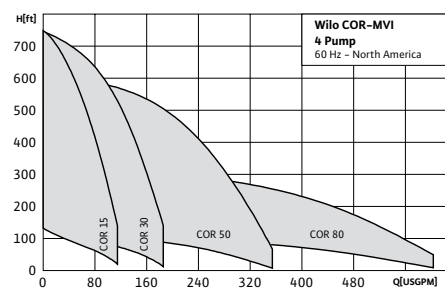
- CC Controller – NEMA 12
- VFD-Controlled Base Load Pump
- 4–20 mA, ¼" SS Pressure Transducers
- Max System Pressure: 250 PSI
- Fluid Temp Range: 30°F to 200°F (–1°C to 120°C)

## Materials of Construction

- Stainless Steel Pump Volute, Impeller, Shaft & Header
- EPDM Elastomers
- Carbon/Tungsten Carbide, SiC/Carbon Mechanical Seal
- Tungsten Carbide/Ceramic Bearing



**COR-MVI 4-Pump**  
Pressure Boosting Systems



For use in water supply applications requiring constant pressure, such as:

- Residential, Commercial & Industrial Buildings
- Hotels & Hospitals
- Department Stores
- Sports Arenas
- Washing /Irrigation

**Max. Flow**  
600 USGPM

**Max. Head**  
754 feet

## Features and Benefits

- Factory-programmed, packaged system
- Compact design for easy installation/retrofit
- User-friendly, multi-language LCD display
- Low maintenance costs
- System monitoring records performance
- Fixed or alternating base load pump
- Balanced run time across all pumps

## Technical Data

- CC Controller – NEMA 12
- VFD-Controlled Base Load Pump
- 4–20 mA, ¼" SS Pressure Transducers
- Max System Pressure: 250 PSI
- Fluid Temp Range: 30°F to 200°F (–1°C to 120°C)

## Materials of Construction

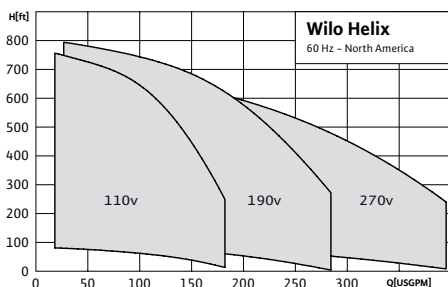
- Stainless Steel Pump Volute, Impeller, Shaft & Header
- EPDM Elastomers
- Carbon/Tungsten Carbide, SiC/Carbon Mechanical Seal
- Tungsten Carbide/Ceramic Bearing



## Multistage Pumps



**Wilo Helix**  
Vertical Multistage Pumps



### Application

- Water Supply / Pressure Boosting
- Condensate Return
- Boiler Feed
- Washing / Sprinkling
- Process Engineering
- Cooling Circuits

**Max. Flow**  
800 USGPM

**Max. Head**  
380 feet

### Features and Benefits

- Up to 33% more head, and 10% more flow per stage!
- Rebuildable cartridge seal system reduces maintenance time by up to 70%
- Floating flanges for easy installation
- Standard EISA compliant TEFC motors
- Integrated thrust bearing reduces motor stress

### Technical Data

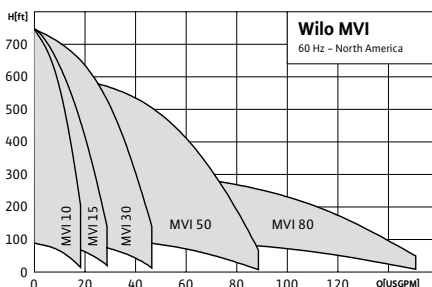
- 3~230v TEFC motors standard (ODP available on request)
- Liquid Temp Range 4°F to 248°F (-15°C to 120°C)
- Electrical Connections: 3~230/460/575v
- Flange Connection: 250# ANSI

### Materials of Construction

- 304L SS or 316SS construction available
- Stainless Steel Impeller, Shaft, Pressure Shroud & Pump Base
- EPDM/FKM Elastomers
- Optional Mechanical Seals Available
- Tungsten Carbide/Ceramic Bearing



**Wilo MVI**  
Vertical Multistage Pumps



### Application

- Water Supply / Pressure Boosting
- Condensate Return
- Boiler Feed
- Washing / Sprinkling
- Process Engineering
- Cooling Circuits

**Max. Flow**  
150 USGPM

**Max. Head**  
750 feet

### Features and Benefits

- 304 Stainless steel construction on parts in contact with fluid
- Standard TEFC NEMA frame Baldor motors
- EPDM/Viton® mechanical seals
- Heavy duty pump base
- Both Oval and ANSI flanges available

### Technical Data

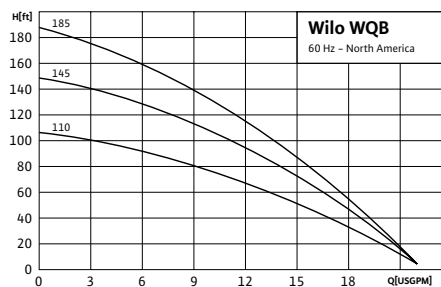
- TEFC motors standard (ODP available on request)
- Temp Range: -5°F to 250°F with EPDM Seal (-20°C to 121°C)
- 1¼" 250# ANSI (not included) or 1" FNPT Oval Flanges (included) Flange Connection

### Materials of Construction

- Stainless Steel Volute, Impeller & Shaft
- Carbon/tungsten Carbide, SiC/Carbon, EPDM Elastomers Mechanical Seal



**Wilo WQB**  
Multi-Stage Booster Pump



### Application

- Household Boosting
- Water Conditioning
- Irrigation
- Light Commercial Boosting
- Rainwater Harvesting
- Reverse Osmosis

**Max. Flow**  
22 USGPM

**Max. Head**  
185 feet

### Features and Benefits

- Built-in dry-running protection
- Self-Priming design, automatically starts and stops as taps are opened or closed
- All-in-one package includes: bladder tank, cord and cable and build-in check valve
- Thermal Overload Protection
- Constant Pressure and Flow
- Automatic and Manual Reset
- Includes power cord and cable

### Technical Data

- Fluid Temp. Range: 32°F to 95°F (0°C to 35 °C)
- Electrical Connections: 1~115v, 1~230v
- Max Inlet Pressure: 30 PSI
- Suction Lift: 26' (8m)
- Max Discharge Height: 49' (15m)

### Materials of Construction

- Composite (PPO/PPE) Volute and Impeller
- Butyl Diaphragm Expansion Tank
- PVC Coupling Adaptors



**Wilco WZC**  
Zone Relay

**Application**

- Heating Systems
- Cooling Systems
- HVAC

**Features and Benefits**

- 4-Zone, 2-Zone, and 1-Zone Controls
- 120VAC, +/- 10%
- Optically Isolated demand inputs
- 24VAC or dry contact
- 120VAC 5A zone outputs
- RS-232
- 8bit 16MHz
- ETL approved



**Wilco WZV**  
Zone Valve

**Application**

- Heating Systems
- Cooling Systems
- HVAC

**Features and Benefits**

- 2-Way Zone Valves
- Controls the flow in your hydronic system
- Available in 1/2", 3/4", and 1" SWT connections
- Valve normally closed
- 2' Cable included
- 24 Volt, UL-approved motor
- High-quality bronze construction
- Micro-end switch
- High C<sub>v</sub> Value



**Wilco WXT, WAS, WAV**  
Expansion Tanks, Air Scoop, Air Vent

**Application**

- Heating Systems
- Cooling Systems
- HVAC

**Features and Benefits**

**Expansion Tanks**

- Controls system pressure in closed systems
- Available in 2.0 & 4.4 Gal. models
- 1/2" NPT Connection
- Quick and easy Installation
- Pre-charged to 12 PSI
- Max Working Pressure: 100 PSI
- Max Temp: 240°F (116°C)

**Air Scoops**

- Quietly separates air from your hydronic system
- Available in 3/4", 1", and 1 1/4" FNPT connections
- Tapped for 1/8" air vent and 1/2" expansion tank
- Maintenance free, cast iron construction

**Air Vents**

- Vents air from hydronic systems
- 1/8" NPT connection
- Max Operating Pressure: 150 PSI
- Max Temp: 240°F (116°C)
- Easy to service
- Solid brass construction

## JetConnect™ Flanges & Accessories



### Wilo JetConnect™ Flanges and Accessories

#### Cast Iron Flanges

- Residential FNPT ductile iron flanges (¾", 1", 1¼", 1½")
- HV cast iron FNPT flanges (1", 1½", 2")
- Wilo ductile iron FNPT "Check Flange" kit (¾", 1", 1¼")

#### Bronze Flanges

- Residential FNPT bronze flanges (¾", 1", 1¼")
- Residential SWT bronze flanges (¾", 1")
- HV bronze flanges (1", 1¼", 2")
- Street Brass flange (¾")

#### Bronze Unions

- FNPT Union (¾", 1")
- SWT Union (¾", 1")



### Wilo JetConnect™ Swivel Flange Ball Valves

#### Swivel Flange Ball Valves

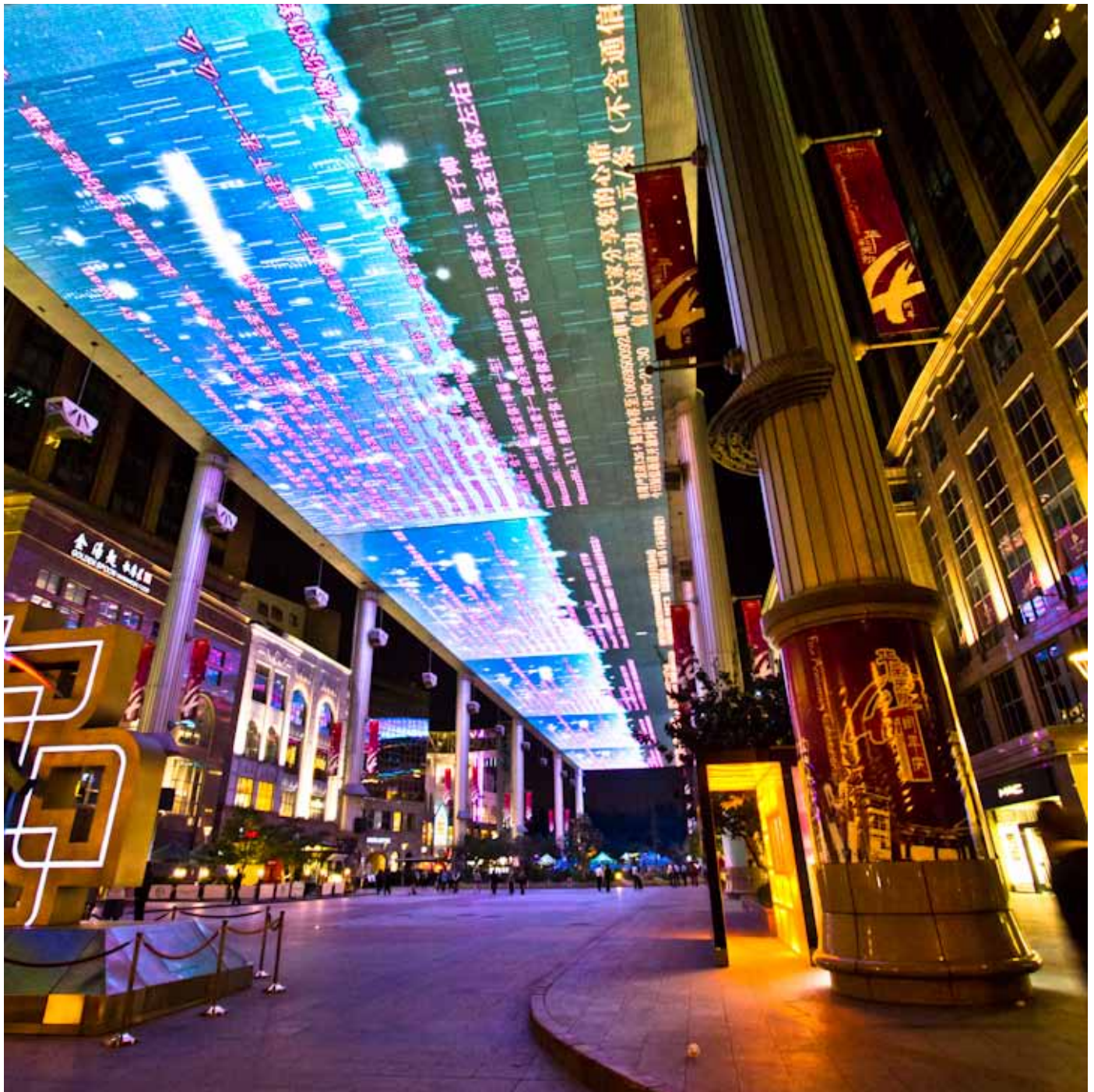
- Residential FNPT/SWT w check (¾", 1", 1¼", 1½")
- Residential FNPT/SWT w purge and check (¾", 1", 1¼", 1½")
- HV FNPT/SWT (1¼", 1½")
- HV SWT w purge (1¼", 1½")



## The Place Beijing, China

This landmark of the new Beijing, with its striking outdoor video screen in Beijing's Square which has become a modern lifestyle mall, with shops, leisure facilities, restaurants, entertainment and business areas. It is one of the most attractive tourist spots for any travelers who come to Beijing.

Wilo split case pumps are installed for the entire air-conditioning system. These pumps are especially suitable for high flow water supply with high efficiency. The hydraulic design and Wilo quality guarantee a smooth operation of the entire system with low maintenance costs.





*Wilo FA*



## Product Overview.

### Water Management.



#### **Submersible / Sewage Pumps**

*MTS, FA, EMU Port, KS, KPR, RZP*

**from page 28**

#### **Mixers**

*Miniprop, Uniprop, Megaprop/Maxiprop*

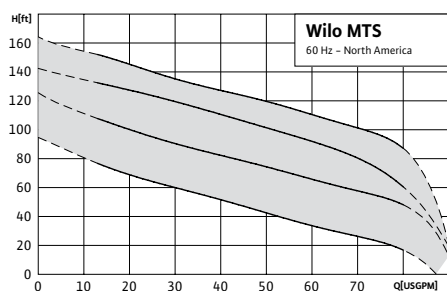
**from page 30**

## Submersible / Sewage Pumps



### Wilo MTS

Submersible Sewage Pumps with  
Macerator



#### Application

- Solids Maceration
- Sewage Handling
- Drainage
- Wastewater Treatment

#### Max. Flow

80 USGPM

#### Max. Head

165 feet

#### Features and Benefits

- Cutter design yields fine solids for nonlogging operation
- Highly efficient design means low operating costs
- Stainless steel casing for maximum corrosion resistance
- Explosion protection on MTS40 E models
- 25' cable included

#### Technical Data

- Electrical Connections: MTS 40/95: 1~230v  
MTS 40/95 - MTS 40/165: 3~230v & 460v
- Temp Range: 37°F - 104°F (3°C - 40°C)
- Insulation class F

#### Materials of Construction

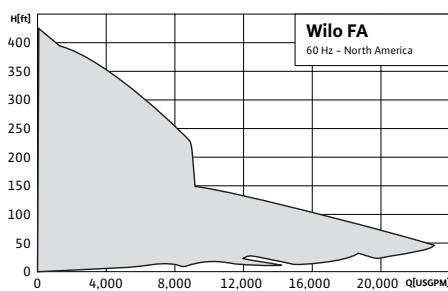
- Cast Iron Volute & Impeller
- Stainless Steel Macerator, Shaft & Motor Housing



Ask about **Wilo GPS!** -  
Guaranteed 2-week delivery on  
select FA models!

### Wilo FA

Submersible Sewage Pumps



#### Application

- Sewage Collection
- Storm Water
- Raw Water
- Sewage Treatment
- Dewatering
- Industry

#### Max. Flow

23,000 USGPM

#### Max. Head

420 feet

#### Features and Benefits

- Rugged design for portable, wet pit, and dry well installation
- Shaft - Short overhang / large diameter
- L3/D4 Shaft Bending Ratio lowest in industry
- Continuous operation possible in Q vs H curve extremes
- Internally closed loop cooled motors available

#### Technical Data

- S1 Operating Mode (continuous duty)
- Protection class: IP 68
- Max Temp: 104°F (40°C) (higher temperatures on request)
- Silicon carbide mechanical seals

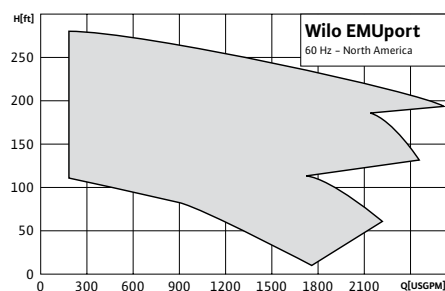
#### Materials of Construction

- Cast Iron Volute (standard)
- Stainless Steel Standard Shaft
- Optional Materials of Construction and Coatings Available



### Wilo EMU Port

Solids Separation System



#### Application

- Solid separation for untreated sewage that cannot be discharged to the sewer system

#### Max. Flow

25,000 USGPM

#### Max. Head

265 feet

#### Features and Benefits

- Low maintenance and operating costs
- System remains fully functional during maintenance
- Solids separation system includes: Collection reservoir, 2x solids tank, 2x sewage pumps & complete piping network

#### Technical Data

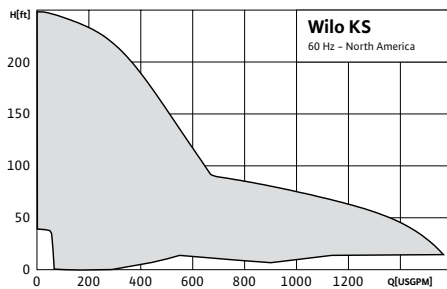
- Pumps stations ready for connection
- With dry-mounted sewage pumps and solids separation system
- Available in shaft- (MS, FS) or building version (MG, FG)

#### Materials of Construction

- Underground Pumping Station Made of PEHD



**Wilo KS**  
Submersible Drainage Pumps



#### Application

- For drainage of excavation pits
- Basements
- Pits and basins
- Fountains

**Max. Flow**  
1,550 USGPM

**Max. Head**  
250 feet

#### Features and Benefits

- Submersible drainage pumps in rugged design for use on building sites
- Mechanical seal independent of direction of rotation
- Heavy-duty motors (oil-filled and dry) ensure permanent operation even with non-immersed motor
- Corrosion-resistant components

#### Technical Data

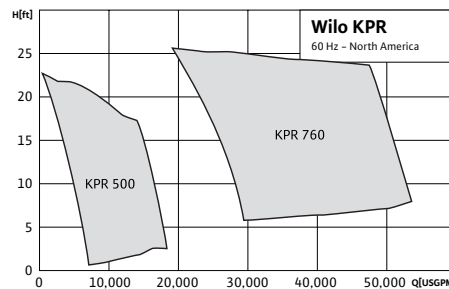
- S1 Operating Mode (continuous duty)
- Max Temp: 104°F (40°C)
- Protection class IP 68
- Sealed by double mechanical seal
- Maintenance-free roller bearing

#### Materials of Construction

- Normal Cast Iron version
- Optional wear protection due to ceramic coating
- Optional Abrasit pump coating available
- With Ex protection, depending on type



**Wilo KPR**  
Submersible Sewage Pumps



#### Application

- Storm Water
- Cooling Water
- Cleaned sewage
- Irrigation
- Sludge

**Max. Flow**  
52,000 USGPM

**Max. Head**  
26 feet

#### Features and Benefits

- Submersible axial flow propeller pump
- Special materials and coatings against abrasion and corrosion
- Longitudinally watertight cable lead-in
- Angle of propeller blades adjustable by hand

#### Technical Data

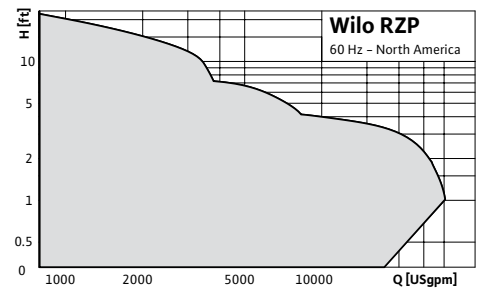
- Submerged operating mode: S1 (continuous duty)
- Max Temp: 104°F (40°C), higher temperatures on request
- Protection class: IP 68

#### Materials of Construction

- Heavy-duty version made of Cast Iron
- Stainless Steel Propeller
- Silicon Carbide Mechanical Seals



**Wilo RZP**  
Recirculation Pumps



#### Application

- Low head water/sewage delivery at high flow rates
- Process, raw, pure and cooling water
- Generation of fluid current in water channels

**Max. Flow**  
30,000 USGPM

**Max. Head**  
17 feet

#### Features and Benefits

- Submersible
- Vertical or in-line design
- Self-cleaning propeller, partially with helix hub
- ATEX and FM versions

#### Technical Data

- Submerged operating mode: S1 (continuous duty)
- Max Temp: 104°F (40°C)
- Protection class: IP 68
- Units are directly driven or with single stage planetary gear

#### Materials of Construction

- PUR or Stainless Steel Propeller

## Mixers



**Wilco Miniprop**  
Submersible Mixers

### Application

- Mixing deposits and solids in rain spillway basin and pump sump
- Breaking down of sludge layers
- Agriculture
- Water supply
- Wet Wells

### Thrust

11–74 lbf (45 – 330 N)

### Features and Benefits

- Compact directly driven submersible mixer
- Stationary installation on walls and floors
- Can be swiveled vertically and horizontally for installation with lowering device
- ATEX and FM versions
- Self-cleaning propeller with helix hub
- Easy-to-install propeller attachment

### Technical Data

- Submerged operating mode: S1 (continuous duty)
- Max Temp: 104°F (40°C)
- Protection class: IP 68
- Permanently lubricated anti-friction bearing

### Materials of Construction

- Stainless Steel Motor Shaft (optional)
- PUR or Stainless Steel Propeller
- SiC/SiC Combination Mechanical Seal



**Wilco Uniprop**  
Submersible Mixers with Planetary Gear

### Application

- Creation of fluid current in activated sludge tanks
- Suspension of solids
- Prevention of floating sludge layers
- Industry & Agriculture
- Water supply
- BNR

### Thrust

78 – 886 lbf (350 – 3940 N)

### Features and Benefits

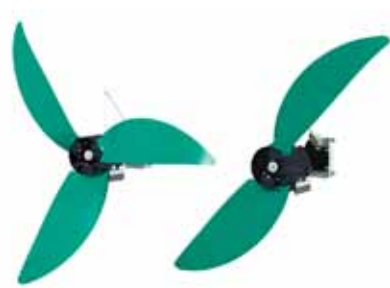
- Stationary installation on walls
- Flexible installation
- Single-stage planetary gear for adjusting the propeller speed
- Self-cleaning propeller
- Easy-to-install propeller attachment
- Type “TRE” with IE3 performance optimized motors
- ATEX and FM versions

### Technical Data

- Submerged operating mode: S1 (continuous duty)
- Max Temp: 104°F (40°C)
- Protection class: IP 68
- Single-stage planetary gear
- Permanently lubricated anti-friction bearing

### Materials of Construction

- Steel, PUR or PUR/GFK Propeller
- Stainless Steel Gear Shaft
- SiC/SiC Combination Mechanical Seal



**Wilco Megaprop/Maxiprop**  
Submersible Mixers with Planetary Gear

### Application

- Mixing and circulation of activated sludge
- Flow generation in water channels
- Industry
- Oxidation Ditches

### Thrust

406 – 976 lbf (470 – 4340 N)

### Features and Benefits

- Slow-running submersible mixer with two-stage planetary gear
- Flexible installation
- 2-stage planetary gear for adjusting the propeller speed
- Self-cleaning propeller
- Propeller blades can be replaced individually
- Easy-to-install blades and hub
- ATEX and FM versions

### Technical Data

- Submerged operating mode: S1 (continuous duty)
- Max Temp: 104°F (40°C)
- Protection class: IP 68
- Two-stage planetary gear with exchangeable second planetary stage
- Permanently lubricated anti-friction bearing

### Materials of Construction

- GFK Propeller
- Stainless Steel Gear Shaft
- SiC/SiC Combination Mechanical Seal



**Baton Rouge South Wastewater Treatment Plant  
Baton Rouge, Louisiana**

Wilo provided 25 units, up to a 20" discharge and 540 horsepower. The units included FA pumps, specially designed mixers, and well water pumps.



*Wilo TWU 4*

## Product Overview.

### Groundwater.



#### **Submersible Pumps**

*3HS, TWI, TWU, Motors, Accessories, Borehole, Bottom Intake*

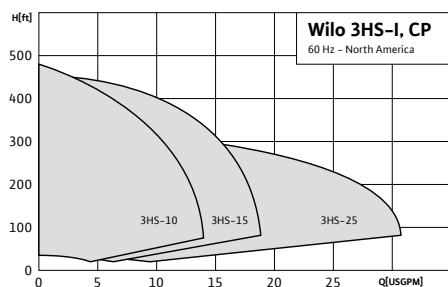
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## Submersible Pumps



### Wilo 3HS

3" High-Speed Submersible Pumps with Noryl Impellers



#### Application

- Potable Water Supply
- Pressure Boosting
- Municipal
- Industrial Process
- Agriculture / Irrigation

#### Max. Flow

31 USGPM

#### Max. Head

475 feet

#### Features and Benefits

- High-speed 8400 RPM rewindable motor
- Available in Constant Pressure (CP) and Integrated (I) models
- Integrated check valve
- Frequency converter included on CP models
- Vertical and horizontal installation possible

#### Technical Data

- Electrical Connections: 1~230v
- Temp Range: 37°F to 95°F (3°C to 35°C)
- Max Sand Content: 50 ppm
- Max Immersion Depth: 500'
- Max Number of Starts: 30/h
- Protection Class: IP 58

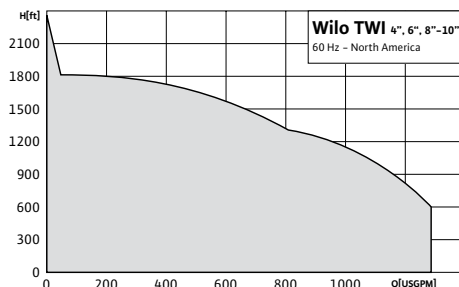
#### Materials of Construction

- 304 SS Construction
- Noryl Impellers



### Wilo TWI

4"–10" Stainless Steel Submersible Well Pumps



#### Application

- Potable Water Supply
- Pressure Boosting
- Irrigation
- Agriculture
- Municipal Applications
- Industrial Process

#### Max. Flow

1,350 USGPM

#### Max. Head

2,200 feet

#### Features and Benefits

- Vertical and horizontal installation possible
- Motors up to 250 HP
- Control boxes and VFD's available
- NEMA standard mounting specs
- High quality shaft bearings
- Check valve standard on all model
- Additional models available on request

#### Technical Data

- Electrical Connection: 1~115/230v  
3~230/460/575v
- Temp Range: 37°F to 122°F (3°C to 50°C)
- Max Sand Content: 50 ppm
- Max Immersion Depth: 1000'
- Protection Class: IP 68

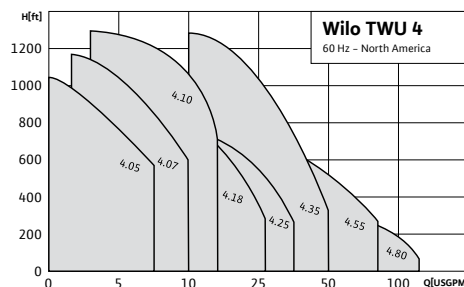
#### Materials of Construction

- Stainless Steel Construction
- Carbon / Graphite / PTFE Stop Ring
- Stainless Steel / NBR Neck Ring
- NBR Bearing



### Wilo TWU

4" Submersible Well Pumps with Noryl Impellers



#### Application

- Potable Water Supply
- Irrigation
- Municipal
- Pressure Boosting
- Agriculture
- Industrial Process

#### Max. Flow

110 USGPM

#### Max. Head

1,250 feet

#### Features and Benefits

- Noryl impellers for maximum wear and abrasive resistance
- High quality shaft bearings for long life and easy installation
- Optional VFD's and control boxes available
- NEMA standard mounting specifications
- Vertical and horizontal installation possible
- Check valve standard on all models
- Additional models available on request

#### Technical Data

- Electrical Connection: 1~115/230v  
3~230/460/575v
- Temp Range: 37°F to 95°F (3°C to 35°C)
- Max Sand Content: 50 ppm
- Max Immersion Depth: 1000'
- Protection Class: IP 68

#### Materials of Construction

- Stainless Steel Construction
- Noryl Impellers & Shaft Sleeve
- Glass-Filled Polycarbonate Bearing Spider & Diffuser
- NBR O-Ring
- Polyacetal Bearing



### Wilo Submersible Motors

4"–16" Submersible Motors



### Wilo Submersibles Accessories

Control Boxes, Variable Frequency Drives, Pump Panels

#### 4" Submersible Motors

- Stainless steel (304SS) stator housing and end bells for maximum corrosion resistance
- Coal Bed Methane Series with 316/304 const. available for aggressive applications
- Oversized Kingsbury-type bearings for higher thrust loads
- Equipped with surge arrestors on 115/230v models to 1.5 HP
- Automatic thermal overload protection to 1.5 HP
- Split capacitor design for highly efficient 2-wire motors
- Electrical Connections: 1~115/230v and 3~230/460/575v
- Max Temp: 86°F (30°C)
- 48" cable length for ½–1½ HP models
- 100" cable length for 2+ HP models
- Class F insulation (311°F / 155°C)

#### 7"–10" Submersible Motors – RW Series

- All 304 stainless steel construction—standard: 30 HP thru 250 HP
- 7"–8"–10" are high temperature rated to 176°F (80°C) standard (SF 1.0)
- All motors are rewindable: 10" (actual 8" NEMA pump connector)
- L<sub>10</sub> bearing life, highest in the industry
- 7" has 6" NEMA connector (7" x 6") 30 HP/40 HP/50 HP/60 HP

#### 9"–16" Coolact Rewindable Submersible Motors

- Rewindable motor stator
- Voltages up to 3000v
- Hi-Temp models available
- Custom power cable lengths
- Cast Iron, 304 Stainless Steel, 316 Stainless Steel, Bronze, and Duplex Stainless Steel configurations available
- Optional PT100 thermistor
- High-quality thrust bearing
- Water-filled design
- Mechanical seals to restrict fluid entry to the motor

#### Control Boxes

- Standard
- Deluxe
- Deluxe CSCR
- Deluxe (6")

#### Variable Frequency Drives

- Max Amb Temp: 104°F (40°C)
- Max Altitude: 3300' (1000m)
- Protection Class: IP55 (NEMA 4)
- 4 Digital input, N.O. or N.C (settable) , for motor run and motor stop
- RS485 serial communication

#### Wilo Pump Panel

- NEMA type 3R steel enclosure with powder coating finish
- Full gasket hinged door with provision for padlocks
- UL listed and suitable for use as service equipment
- Heavy duty flange Fusible disconnect switch.
- NEMA Full voltage magnetic motor starter.

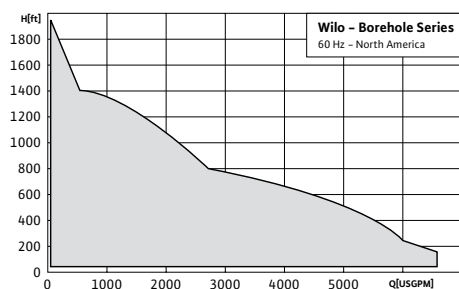
## Submersible Pumps



**Wilo Borehole Series**  
Up to 24"



**Wilo Bottom Intake Series**



### Application

- Water Supply from boreholes and cisterns
- Process water supply
- Municipal & industrial water supply
- Sprinkling, Irrigation, Geothermal & Offshore
- Pressure boosting
- Dewatering

### Max. Flow

6,500 USGPM

### Max. Head

1950 feet

### Features and Benefits

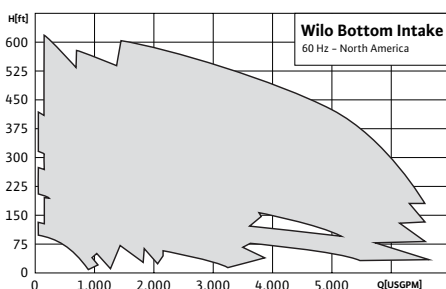
- Up to 24" diameters available
- Water pumping with large volume flows
- Trimmable impellers
- Motors with CoolAct™ technology for high power density (from 10" motors on)
- High voltage up to 6000v possible
- Vertical and horizontal installation possible
- Pressure shroud installation option

### Technical Data

- Immersed Operating Mode: S1
- Max Temp: 122°F (50°C)
- Min Flow at Motor: 0.33...1.64 f/s
- Max Immersion Depth: 100 or 300/350 %
- Protection Class: IP 68

### Materials of Construction

- Ceram Coating available for increased durability
- Corrosion-Resistant Impellers
- Wear-Resistant GI Bushing (depending on type)
- Special Materials Available



### Application

- Potable and Process Water from tanks or shallow areas
- Municipal and Industrial Water Supply
- Sprinkling and Irrigation
- Dewatering
- Geothermal Energy & Offshore

### Max. Flow

5,000 USGPM

### Max. Head

524 feet

### Features and Benefits

- Self-cooling design
- Compact design
- Rewindable motors
- Trimmable Impellers
- Hydraulics and motor configurable according to power requirements
- Rewindable Motors

### Technical Data

- Max Temp: 68°F (20°C)
- Max Immersion Depth: 984 ft
- Protection Class: IP 68

### Materials of Construction

- Ceram Coating available for increased durability





**Paulaner Brauerei  
Munich, Germany**



For brewing and additional process steps, such as bottle cleaning, the brewery needs around 250M gallons of water per year. This high water requirement should be met by 16' – 785' deep wells.

Wilo supplied each well with a multistage heavy-duty borehole pump. From a depth of 260', these 5 pumps serve the fluctuating water demand during running beer production. The variable speed pump controls with frequency converters ensure needs-based and an extremely energy-efficient water supply.

Notes:



Notes:



**Wilo USA LLC**

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9550 W. Higgins Rd. #300  
Rosemont, IL 60018

**Wilo USA LLC**

*Manufacturing Facility*  
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Thomasville, GA 31792

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