Wilo Product Catalog
Pumps and systems for Building Services, Water Management, and Groundwater.
Wilo Manufacturing Facility
Thomasville, GA
## General Overview

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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. The goal of our company founder, Louis Opländer, was to use his copper and brass goods factory to improve and facilitate the supply of water and heat to people. He was very successful; in 1928, he designed the world’s first circulation accelerator and revolutionized the field of heating technology. Since then, our company history has been marked again and again by pioneering 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 Dortmund, is one of the world’s leading manufacturers and providers of pumps and pump systems for heating, air-conditioning and cooling, for water supply and sewage disposal. With over 6,700 employees and 60 production and sales companies all over the world, we personally see to it that the wants and needs of our customers and users are optimally met every day – with pioneering developments and solutions, high-efficiency products, tailored solutions for special applications and for industry and extensive service offerings. This is what we mean by Pioneering for You.
Shaping the future for you.

This year, we are presenting ourselves not only with many trendsetting products, but also with a new image. The reason is simple: we have clearly changed in recent years and have become much more dynamic, large and international. We are now communicating this change with the outside world, through a fresh color scheme, our new logo and the slogan “Pioneering for You”.

With this new slogan, we are making clear who is always at the center of all our thoughts and developments: our customers, whose life and work we want to make as simple as possible with our products, solutions and services. Our slogan “Pioneering for You” expresses our commitment to a clear customer focus, strict quality orientation and strong passion for technology. We will measure our future performance against this standard, and we hope you will do the same.

Wilo's way

Our new Image.
Wilo planning support
Our software applications for your efficiency.

At Wilo, we want you to be able to concentrate from the very start on what's important - you. This is why we design our pumps and pump systems so that you can integrate them as easily as possible. We also offer a selection of applications aimed at effectively supporting you in your day-to-day work.

Wilo Select 4:

The new and improved web-based selection software will launch Spring 2014. Be sure to check out our updated pump planning software where you can find the right pump for your application in seconds along with all the important information.

The online CAD catalogue:

You can download exact 2D and 3D drawings quickly and easily at wilouusa.cadprofi.com.
“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
Building Services

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.
# Section Overview

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Wilo Stratos ECO RFC
High Efficiency Wet Rotor Circulators

Wilo Stratos
High Efficiency Circulators

Wilo Stratos Z
High Efficiency DHW 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 & Benefits
- Patent-pending 360° Flange rotates to 12/6 or 3/0 o’clock positions
- 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

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

*Less than 0.25% Lead content
**Wilo Stratos D**
High Efficiency Circulators

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

- Max. Flow: 480 USGPM
- Max. Head: 43 feet

**Features & Benefits**
- EC 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
- Multiple control modules available for integration with building management systems

**Technical Data**
- ΔP-V, ΔP-C, or constant speed control modes standard. ΔP-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

**Wilo Stratos GIGA**
High Efficiency Inline Circulators

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

- Max. Flow: 275 USGPM
- Max. Head: 167 feet

**Features & Benefits**
- Highest efficiency motor-drive combination on the market up to 7.5HP
- Over 33% energy savings vs. controlled inline pumps
- Compact, Space-saving design
- ‘Red Button’ technology and LED display
- Various control modes: ΔPV, ΔPC, η, 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

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

**Wilo Helix Excel**
High Efficiency Multistage Pumps

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

- Max. Flow: 250 USGPM
- Max. Head: 720 feet

**Features & Benefits**
- Highest efficiency motor-drive combination on the market up to 7.5HP
- Over 33% energy savings vs. controlled multistage pumps
- Uses cartridge seal for easy maintenance
- ‘Red Button’ technology and LED display
- Various control modes: ΔPV, ΔPC, η, 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

**Materials of Construction**
- 3-D Stainless Impellers
- Stainless Steel Volute, Shroud & Shaft
Wilo Star S
3 Speed Wet Rotor Circulators

Wilo Star
Residential Wet Rotor Circulators

Wilo Top S
Commercial Wet Rotor Circulators

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

Max. Flow
35 USGPM

Max. Head
33 feet

Features & Benefits
- Reliable wet rotor technology
- Quick connect wiring
- Powerful starting torque
- Ultra quiet
- Installable hi-temp check
- RFC Patented Rotating Flange: US 8,297,664 B2

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
- Star S33 available in 1~115v, 230v
- Max Working Pressure: 140 PSI (10 Bar)

Materials of Construction
- Cast Iron Volute
- Engineered Composite Impeller
- Stainless Steel Shaft
- Carbon Impregnated Bearing
- Steel Terminal Box

Wilo Top S

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 & Benefits
- No mechanical seal
- Quiet, low maintenance wet rotor circulator
- Two-speed operation on all voltages
- 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 to 248°F
  (-10°C to 120°C)
- Amb Temp Range: 32°F – 104°F (0°C – 40°C)
- Electrical Connection: 1~115v, 230v
  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
- Impregnated Carbon Bearing
- Class H Insulation
Wilo Star Z
Stainless Steel 3 Speed Wet Rotor Circulator

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

Max. Flow
35 USGPM

Max. Head
33 feet

Features & Benefits
- Reliable wet rotor technology
- Quick connect wiring
- Powerful starting torque
- Ultra quiet

Technical Data
- Max Temp Range: 14°F to 230°F (-10°C to 110°C)
- Max Amb Temp: 104°F (40°C)
- Electrical Connections: 1~115v
- Max Working Pressure: 145 PSI (10 Bar)

Materials of Construction
- Stainless Steel Volute & Shaft
- Engineered Composite Impeller
- Impregnated Carbon Bearing

JetConnect™ Fitting Pack
- Package of four (4) connectors to handle all types of piping
- Two (2) ½” SW x FNPT
- Two (2) ¾” SW x FNPT
- Two (2) ¾” SW x ½” SW Reducing Bushings
- Two (2) ¾” Street Hub Copper Unions

Digital Timer
- Clips directly on the ¾” pipe to control your DHW circulator
- 8’ Line cord
- Turns on at 98°F (36°C)
- Turns off at 114°F (46°C)

Wilo Z-15
Domestic Hot Water Circulators

Application
- Domestic Hot Water Recirculation

Max. Flow
2 USGPM

Max. Head
5 feet

Features & Benefits
- NSF 61 / NSF 372 Certified
- Compact design
- 115v power cord included
- Magnetic drive design
- Optional digital timer available
- Conserves energy and water
- Safe and quick installation

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 / NSF 372 Certified Brass Volute
- Stainless Steel Shaft
- Engineered Composite Impeller
- Impregnated Carbon Bearing

Wilo DHW Accessories
JetValve, Digital Timer, Fitting Pack, & Aquastat

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

Digital Timer
- Weekly digital timer
- Large LCD display
- Conserves energy

Digital Timer
- Clips directly on the ¾” pipe to control your DHW circulator
- 8’ Line cord
- Turns on at 98°F (36°C)
- Turns off at 114°F (46°C)
### Wilo ECC
Submersible Sump Pumps

**Application**
- Sump & Effluent
- De-watering
- Drainage

**Max. Flow**
58 USGPM

**Max. Head**
25 feet

**Features & 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
- 1½” NPT Discharge (1¼” with adaptor)

**Materials of Construction**
- Cast Iron Volute & Motor Housing
- Engineered Composite Impeller
- Stainless Steel Bottom-Screened Inlet

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### Wilo ECS
Submersible Sump Pumps

**Application**
- Sump & Effluent
- De-watering
- Drainage

**Max. Flow**
71 USGPM

**Max. Head**
23 feet

**Features & Benefits**
- Oil-filled motor for maximum heat dissipation
- Ideal for basement installations
- 10’ power cord included
- CSA certified

**Technical Data**
- Max Solids Handling: ½”
- Max Temp: 77°F (25°C)
- Electrical Connections: 1–115v
- 1½” Discharge (1¼” with adaptor included)

**Materials of Construction**
- Cast Iron Volute
- Stainless Steel Motor Housing
- Engineered Composite Impeller

---

### Wilo WCC
Sewage/Effluent Pumps

**Application**
- Residential Sewage & Effluent
- Drainage

**Max. Flow**
85 USGPM

**Max. Head**
24 feet

**Features & 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); ¾” (WCC28)
- Max fluid temperature 130°F (55°C)
- Electrical Connections: 1–115v
- 2” NPT Discharge

**Materials of Construction**
- Cast Iron Volute & Motor Housing
- Engineered Composite Impeller
**Wilo IL**
Inline Centrifugal Circulators

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

**Max. Flow**
1450 USGPM

**Max. Head**
440 feet

**Features & Benefits**
- Integrated suction straightening vane
- Pump feet drilled and tapped
- 125# ANSI standard flanges
- Suction and discharge pressure gauge tappings
- Lifting eyes for easy installation

**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 Connection: 1~115v, 230v 3~208–230v, 460v, 575v

**Materials of Construction**
- Cast Iron, Cataphoresis Coated Volute
- Trimmable Bronze Impeller
- Stainless Steel Stub Shaft
- 2-Part Epoxy Paint

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**Wilo IPL**
Inline Pumps

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

**Max. Flow**
400 USGPM

**Max. Head**
65 feet

**Features & Benefits**
- Integrated suction straightening vane
- Pump feet drilled and tapped
- 125# ANSI standard flanges
- Suction and discharge pressure gauge tappings
- Lifting eyes for easy installation

**Technical Data**
- TEFC motors standard (ODP available)
- Temp Range: 15°F to 250°F (-10°C to 120°C)
- Max Amb Temp: 104°F (40 °C)
- Electrical Connection: 1~115v, 230v 3~208–230v, 460v, 575v

**Materials of Construction**
- Cast Iron, Cataphoresis Coated Volute
- Engineered Composite Impeller
- Stainless Steel Stub Shaft
- 2-Part Epoxy Paint
**Application**

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

**Max. Flow**

- 2,500 USGPM

**Max. Head**

- 300 feet

**Features & 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**

- 5,000 USGPM

**Max. Head**

- 180 feet

**Features & Benefits**

- Horizontal 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
- Pump shaft guards

**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
- Standard Configuration: Cast Iron Volute, Bronze Impeller, Stainless Steel Shaft, C/SiC/EPDM Mechanical Seal, NEMA Standard Motors

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**Application**

- Heating and Cooling Systems
- Water Supply Systems
- Sprinkler/Flow Irrigation
- Pressure Boosting
- Municipal Water
- Heat Exchanger

**Max. Flow**

- 900 USGPM

**Max. Head**

- 290 feet

**Features & Benefits**

- NSF 61 / NSF 372 Certified
- Close coupled design that saves space
- Can be installed horizontally or vertically
- Centerline discharge and foot support under casing
- High operating efficiency which lowers operating costs

**Technical Data**

- Temp Range: 212°F (100°C)
- Max. Working Pressure 230 PSI (15 Bar)
- Electrical Connections: 1–115/230V 3~ 208v, 230/460V

**Materials of Construction**

- 304 Stainless Steel Casing and Impeller
- Stainless Steel Shaft

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*less than 0.25% lead content*
Packaged Booster System and Multistage Pumps

**Wilo COR 2, 3, 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
540 USGPM

Max. Head
800 feet

Features & 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: 363 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

*Less than 0.25% Lead content*

**Wilo Helix**
Vertical Multistage Pumps

Application

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

Max. Flow
380 USGPM

Max. Head
800 feet

Features & Benefits

- Cartridge seal designed for easy service
- 3D impellers for improved efficiency
- Floating flanges for easy installation
- Standard E1SA compliant TEFC motors
- Integrated thrust bearing reduces motor stress

**Technical Data**

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

**Materials of Construction**

- 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

*Less than 0.25% Lead content*

**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 & 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**

- Temp Range: -5°F to 250°F
  (-20°C to 121°C)
- Electrical Connections: 1~115/230v
  3~230/460/575v
- 1¼" 250# ANSI (not included) or 1" FNPT
  Oval Flanges (Included) Flange Connection
- TEFC motors standard
  (ODP available on request)

**Materials of Construction**

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

*Less than 0.25% Lead content*
### Wilo WXT, WAS, WAV
Expansion Tanks, Air Scoops, Air Vent

**Application**
- Heating Systems
- Cooling Systems
- HVAC

**Expansion Tanks**
- Controls system pressure in closed systems
- Available in 2.0 & 4.4 Gal. models
- ½” 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 ¾”, 1”, and 1¼” FNPT connections
- Tapped for ¼” air vent and ½” expansion tank
- Maintenance free, cast iron construction

**Air Vents**
- Quietly separates air from hydronic system
- Available in ¾”, 1”, and 1¼” FNPT connections
- Tapped for ¼” air vent and ½” expansion tank
- Maintenance free, cast iron construction

### Wilo JetConnect™
Flanges and Accessories

**Application**
- Heating Systems
- Cooling Systems
- HVAC

**Cast Iron Flanges**
- Residential FNPT cast iron flanges (¼”, 1”, 1¼”, 1½”)
- HV cast iron FNPT flanges (1”, 1½”, 2”)
- Wilo cast iron FNPT “Check Flange” kit (¼”, 1”, 1¼”)

**Bronze Flanges**
- All: Lead Free
- Residential FNPT bronze flanges (¼”, 1”, 1¼”)
- Residential SWT bronze flanges (¼”, 1”)
- HV bronze flanges (1”, 1¼, 2”)

### Wilo JetConnect™
Swivel Flange Ball Valves

**Application**
- Heating Systems
- Cooling Systems
- HVAC

**Swivel Flange Ball Valves**
- Residential FNPT/SWT w check (¼”, 1”, 1¼”, 1½”)
- Residential FNPT/SWT w purge and check (¼”, 1”, 1¼”, 1½”)
- HV FNPT/SWT (1¼”, 1½”)
- HV SWT w purge (1¼”, 1½”)

*Less than 0.25% Lead content*
Wilo Helix Excel
Water Management

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

Water Management:

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2014 Product Catalog – Wilo North America – 60 Hz, Subject to change without prior notice.
Wilo MTS
Submersible Sewage Pumps with Macerator

- **Application**
  - Solids Maceration
  - Sewage Handling
  - Drainage
  - Wastewater Treatment

- **Max. Flow**
  - 80 USGPM

- **Max. Head**
  - 165 feet

- **Features & Benefits**
  - Cutter design yields fine solids for nonclogging 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
  - Cast Iron Macerator, Shaft & Motor Housing

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 & 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 EMUPort
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 & 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 & 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 & 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 & 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
**Wilo 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 & 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

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**Wilo 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 & 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

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**Wilo 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 & 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
Wilo GPS
Guaranteed Product Shipment

10 DAYS OR LESS GUARANTEED!
The Guaranteed Pump Shipment (GPS) program is an industry first! Engineered wet-pit and dry-pit submersible pumps, from 3 to 57 HP, built to order and deliver in 10 business days or less. Need a replacement sooner? Ask about our 1 week fast-track adder. Put Wilo to the test! Should we miss the shipment deadline, we’ll credit you 10% of the purchase price. Contact us at GPS@wilo-usa.com for more information.

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Wilo FA Pumps / Standard 3", 4", 6"

Pioneering for You
Groundwater

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

Groundwater:

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**Wilo 3HS**

3” High-Speed Submersible Pumps with Noryl Impellers

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

**Max. Flow**
31 USGPM

**Max. Head**
475 feet

**Features & 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

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**Wilo TWI**

4”-10” Stainless Steel Submersible Well Pumps

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

**Max. Flow**
1,350 USGPM

**Max. Head**
2,200 feet

**Features & 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
- Temp Range: 37°F to 122°F (3°C to 50°C)
- Max Sand Content: 50 ppm
- Max Immersion Depth: 1000’
- Max Number of Starts: 30 /h
- Protection Class: IP 68

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

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**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 & 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
- Temp Range: 37°F to 95°F (3°C to 35°C)
- Max Sand Content: 50 ppm
- Max Immersion Depth: 1000’
- Max Number of Starts: 30 /h
- 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**

### 4” Standard Submersible Motors
- Stainless steel for Maximum corrosion resistance
- Coal Bed Methane Series available for aggressive applications
- Equipped with surge arrestors on 115/230v models
- Automatic thermal overload protection
- 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
- 6”-10” Standard Submersible Motors

### 6”-10” Standard Submersible Motors
- Electrical Connections: 3~230/460/575/1000v
- NEMA standard flange
- Standard Temp: 95°F (35°C)
- High Temp: 176°F (80°C)
- NEMA splined shaft
- pH 6.5-8.0
- Durable stainless steel motor housing, 304 & 316 available

### 6”-16” NU Rewindable Submersible Motors
- Rewindable motor stator
- Voltages up to 6000v
- 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 bearings
- Water-filled design

## Wilo Submersible Accessories

**Control Boxes, Variable Frequency Drives, Pump Panels**

### 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.
Wilo Borehole Series
Up to 24”

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
1,950 feet

Features & 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

Wilo Bottom Intake Series

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 & 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
Now you have a choice when it comes to submersible motors from Wilo, the brand setting the standard for technical performance and efficiency. What a lineup in motors! 4” to 10 hp – 6” & 7” to 75 hp – 8” to 125 hp – 10” to 250 hp and Wilo CoolAct 1000 hp+! Wilo’s submersible product line offers you, the professional, all the choice you need! Find out more. Call or visit our website for more information.

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