Pioneering for You

2015 – North America 60 Hz.

Wilo Product Catalog

Pumps and systems for Building Services, Water Management and Groundwater.
Wilo is synonymous throughout the world with the tradition of first-class German engineering. Just over a decade ago, Wilo entered into America. With a manufacturing facility in Thomasville, Georgia and headquarter offices in Rosemont, Illinois, Wilo USA continues to drive new technology and innovation into the United States pump & systems market.
"We develop technology to make your life easier, that's what I call Pioneering for you."

Dr. Markus Beukenberg, Chief Technical Officer, WILO SE Dortmund, Germany
Wilo Select 4 online for Building Services is now available and easier than ever. With reliable product selections and hydraulic calculations, this new selection software will help you find the Wilo pump you are looking for.

us.wilo-select.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.
Application

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

Max. Flow

14 USGPM

Max. Head

16 feet

Features & Benefits

- Patented 360° Flange rotates to 12/6 or 3/9 o’clock positions (US 8,297,664 B2)
- Installable hi-temp check valve included
- EC motor technology reduces energy consumption by up to 80%
- ‘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
- Built in overload fault contacts (opens on over/under voltage, dry run, locked rotor, overload and over temperature)

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
**Wilo Stratos D**
High Efficiency Circulators

**Application**
- Hot Water Heating Systems
- 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%
- ‘Red Button’ technology and LED display
- Lead/Lag operation with auto 24-hr alternation
- Dual-volute design cuts installation costs by up to 50%
- Optimized peak load operation

**Technical Data**
- ΔP-V, ΔP-C, ΔP-T speed control or external signals with IF module.
- Temp Range: 14°F to 230°F (-10°C to 110°C)
- Electrical Connection: 1~208/230v (+/- 10%)

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

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**Wilo Stratos GIGA**
High Efficiency Inline Circulators

**Application**
- Hot Water Heating Systems
- 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
- Compact, Space-saving design
- ‘Red Button’ technology and LED display
- Various control modes: ΔPV, ΔPC, speed, 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

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**Wilo Helix Excel**
High Efficiency Multistage Pumps

**Application**
- Water Supply and Pressure Boosting
- Process water
- Pressure 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
- Uses cartridge seal for easy maintenance
- ‘Red Button’ technology and LED display
- Various control modes: ΔPV, ΔPC, speed, 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
- Less than 0.25% Lead content
**Wilo Star S**
3 Speed Wet Rotor Circulators

**Wilo Star**
Residential Wet Rotor Circulators

**Wilo Top S**
Commercial Wet Rotor Circulators

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**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-temper check
- RFC Patented Rotating Flange: US 8,297,664 B2

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**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

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**Wilo Cast Iron**

**Wilo Star Cast Iron**

**Wilo Top Cast Iron**

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

**Max. Flow**
38 USGPM

**Max. Head**
33 feet

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

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**Technical Data**
- Max Temp Range: 14°F to 248°F
  (-10°C to 120°C)
- Max Amb Temp: 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

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**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
**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: 140 PSI (10 Bar)

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

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**Wilo Z-15**  
Domestic Hot Water Circulators

### Application
- Domestic Hot Water Recirculation

### Max. Flow
2 USGPM

### Max. Head
5 feet

### Features & Benefits
- NSF 61 Certified
- Compact design
- 115v power cord included
- Magnetic drive design
- Optional digital timer available
- Conserves energy and water
- Safe and quick installation
- Available in ¾" SWT, ½" SWT and ½" NPT

### 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

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**Wilo DHW Accessories**

### 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

### DHW 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
- Less than 0.25% Lead content

### Aquastat
- 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
- 1¾” NPT Discharge (1¾” with adapter)

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

**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 max 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
- 1¾” Discharge (1¾” adapter 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
- Trimable 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**

- Wilo NL: 2,500 USGPM
- Wilo SCP: 5,000 USGPM
- Wilo BLZ: 900 USGPM

**Max. Head**

- Wilo NL: 300 feet
- Wilo SCP: 180 feet
- Wilo BLZ: 290 feet

**Features & Benefits**

- Wilo NL: Back pullout design allows replacement of bearings and seals without disturbing the piping
- Wilo SCP: Horizontal split casing allows replacement of bearings and mechanical seal without disturbing the system piping
- Wilo BLZ: NSF 61 Certified

**Technical Data**

- Wilo NL: Temp Range: -5°F to 250°F (-20°C to 121°C)
- Wilo SCP: Temp Range: 18°F to 250°F (−8°C to 120°C)
- Wilo BLZ: Temp Range: 212°F (100°C)

**Materials of Construction**

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

**Wilo NL**

- Base Mount End Suction Pumps

**Wilo SCP**

- Split Case Pumps

**Wilo BLZ**

- Block Line Stainless Steel Closed Coupling Pump
For use in water supply applications requiring constant pressure, such as:
→ Residential, Commercial & Industrial Buildings
→ Hotels & Hospitals
→ Department Stores
→ 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; ¾” 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

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 EISA 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
→ 304L SS or 316 SS construction available
→ Stainless Steel Impeller, Shaft, Pressure Shroud & Pump Base
→ EPDM/FKM Elastomers
→ Optional Mechanical Seals Available
→ Tungsten Carbide/Ceramic Bearing
→ Less than 0.25% Lead content

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
→ EPDM or 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, Viton® Elastomers Mechanical Seal
→ Less than 0.25% Lead content
Building Services

Wilo Accessories
Flanges and Accessories

- Cast Iron Flanges
  - Residential FNPT cast iron flanges (£\textfrac{3}{4}, 1, 1\frac{1}{4}, 1\frac{1}{2}$)
  - HV cast iron FNPT flanges (£1, 1\frac{1}{2}, 2$)
  - Wilo cast iron FNPT “Check Flange” kit (£\textfrac{3}{4}, 1, 1\frac{1}{4}$)

- Bronze Flanges
  - Lead free bronze
  - Residential FNPT bronze flanges (£\textfrac{3}{4}, 1, 1\frac{1}{2}$)
  - Residential SWT bronze flanges (£\textfrac{3}{4}, 1$)
  - HV bronze flanges (£1, 1\frac{1}{4}, 2$)

- Swivel Flange Ball Valves
  - Residential FNPT/SWT w check (£\textfrac{3}{4}, 1, 1\frac{1}{4}, 1\frac{1}{2}$)
  - HV FNPT/SWT (£1\frac{1}{4}, 1\frac{1}{2}$)
  - HV SWT w purge (£1\frac{1}{4}, 1\frac{1}{2}$)

Wilo Accessories
Ball Valves
Water Management

Pumps and pump systems for water supply, sewage disposal and sewage treatment in municipal buildings.
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
→ Stainless Steel 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 FA Accessories
Solid Impeller, Block Seal, Materials, Designs

Solid Impeller
→ Applications: high solids content (rags and fibrous), untreated sewage, local drainage
→ Max head: 420 feet
→ Max flow: 65 ft
→ Smooth operation in wet and dry well installation
→ Simple installation via suspension unit or pump base
→ Impeller trimmed to specific duty point
→ Free passage: 3x4 – 7x7 in (78x105 – 170x170 mm)
→ Permanently lubricated roller bearings
→ Longitudinally watertight cable inlet
→ Power connections: 3~230 V, 3~460 V
→ Optionally 200 V, 203 V, and 575 V

Enclosed Block Seal
Mechanical shaft seals of high wear-resistant silicon-carbide at the motor and pump-side integrated in a stainless steel cartridge
→ Short height compact design (short shaft overhang)
→ High operation safety
→ Durable and long life
→ Operation independent of the direction of rotation

Special Materials
→ Wear-resistant materials and coatings
→ Corrosion-resistant materials and coatings
→ Ceram coatings

Special Designs
→ Mechanical mixing head
→ Grinder pumps
→ Cast stainless steel
→ High chrome cast iron
Wilo WST, WLST
Submersible Turbines, Line Shaft Turbines

Application
- Municipal/Industrial Water
- Power Generation
- Oil & Gas
- Mining
- Storm Water
- Irrigation and Sump

Max. Flow
132,000 USGPM

Max. Head
2,000 feet

Features & Benefits
- Water, oil & grease lubrication options
- Configurations Include:
  - Vertical Solid Shaft Motor
  - Vertical Hollow Shaft (VHS) Electric Motor
  - Right Angle Gear Drive
  - Vertical Pully Assembly

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, compact installation unit
- Vertical or in-line design
- Energy efficient, flow-optimized, self-cleaning propellers, partially with helix hub
- Low cost in-basin piping
- FM – Ex Rated
- Pump station wet wells are no longer necessary
- Easy installation and removal
- The special blade design provides gentle pumping of water, sewage and activated sludge

Technical Data
- Submerged operating mode: S1 (continuous duty)
- Max Temp: 104°F (40°C)
- Protection class: IP 68
- Units are planetary or direct gear driven

Materials of Construction
- PUR or Stainless Steel Propeller
<table>
<thead>
<tr>
<th><strong>Wilo Miniprop</strong></th>
<th><strong>Wilo Uniprop</strong></th>
<th><strong>Wilo Megaprop/Maxiprop</strong></th>
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<tbody>
<tr>
<td><strong>Application</strong></td>
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</tr>
<tr>
<td>→ Mixing deposits and solids in rain spillway basin and pump sump</td>
<td>→ Creation of fluid current in activated sludge tanks</td>
<td>→ Mixing and circulation of activated sludge</td>
</tr>
<tr>
<td>→ Breaking down of sludge layers</td>
<td>→ Suspension of solids</td>
<td>→ Flow generation in water channels</td>
</tr>
<tr>
<td>→ Agriculture</td>
<td>→ Prevention of floating sludge layers</td>
<td>→ Industry</td>
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<tr>
<td>→ Water supply</td>
<td>→ Industry &amp; Agriculture</td>
<td>→ Oxidation Ditches</td>
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<tr>
<td>→ Wet Wells</td>
<td>→ Water supply</td>
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<tr>
<td><strong>Thrust</strong></td>
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<tr>
<td><strong>Features &amp; Benefits</strong></td>
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</tr>
<tr>
<td>→ Compact directly driven submersible mixer</td>
<td>→ Stationary installation on walls</td>
<td>→ Slow-running submersible mixer with two-stage planetary gear</td>
</tr>
<tr>
<td>→ Stationary installation on walls and floors</td>
<td>→ Flexible installation</td>
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</tr>
<tr>
<td>→ Can be swiveled vertically and horizontally for installation with lowering device</td>
<td>→ Single-stage planetary gear for adjusting the propeller speed</td>
<td>→ 2-stage planetary gear for adjusting the propeller speed</td>
</tr>
<tr>
<td>→ ATEX and FM versions</td>
<td>→ Self-cleaning propeller</td>
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</tr>
<tr>
<td>→ Self-cleaning propeller with helix hub</td>
<td>→ Easy-to-install propeller attachment</td>
<td>→ Propeller blades can be replaced individually</td>
</tr>
<tr>
<td>→ Easy-to-install propeller attachment</td>
<td>→ Type &quot;TRE&quot; with IE3 performance optimized motors</td>
<td>→ Easy-to-install blades and hub</td>
</tr>
<tr>
<td></td>
<td>→ ATEX and FM versions</td>
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<td><strong>Technical Data</strong></td>
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<tr>
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<tr>
<td></td>
<td>→ Single-stage planetary gear</td>
<td>→ Two-stage planetary gear with exchangeable second planetary stage</td>
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<td></td>
<td></td>
<td>→ Permanently lubricated anti-friction bearing</td>
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<tr>
<td><strong>Materials of Construction</strong></td>
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<tr>
<td>→ Stainless Steel Motor Shaft (optional)</td>
<td>→ Steel, PUR or PUR/GFK Propeller</td>
<td>→ GFK Propeller</td>
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<tr>
<td>→ PUR or Stainless Steel Propeller</td>
<td>→ Stainless Steel Gear Shaft</td>
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<tr>
<td>→ SiC/SiC Combination Mechanical Seal</td>
<td>→ SiC/SiC Combination Mechanical Seal</td>
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</tr>
</tbody>
</table>
Groundwater

Submersible pumps for water supply from water wells, agriculture, dewatering and industrial applications, agriculture, dewatering and industrial applications.
**Wilo 3HS**

3” High-Speed Submersible Pumps with Noryl Impellers

<table>
<thead>
<tr>
<th>Application</th>
<th>Features &amp; Benefits</th>
<th>Technical Data</th>
<th>Materials of Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potable Water Supply</td>
<td>High-speed 8400 RPM rewindable motor</td>
<td>Electrical Connections: 1~230v Temp Range: 37°F to 95°F (3°C to 35°C)</td>
<td>304 SS Construction Noryl Impellers</td>
</tr>
<tr>
<td>Irrigation</td>
<td>Available in Constant Pressure (CP) and Integrated (I) models</td>
<td>Max Sand Content: 50 ppm</td>
<td></td>
</tr>
<tr>
<td>Municipal</td>
<td>Integrated check valve</td>
<td>Max Immersion Depth: 500’</td>
<td></td>
</tr>
<tr>
<td>Pressure Boosting</td>
<td>Frequency converter included on CP models</td>
<td>Max Number of Starts: 30/h</td>
<td></td>
</tr>
<tr>
<td>Agriculture</td>
<td>Vertical and horizontal installation possible</td>
<td>Protection Class: IP 68</td>
<td></td>
</tr>
<tr>
<td>Industrial Process</td>
<td>Motors up to 250 HP</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Wilo TWI**

4”-10” Stainless Steel Submersible Well Pumps

<table>
<thead>
<tr>
<th>Application</th>
<th>Features &amp; Benefits</th>
<th>Technical Data</th>
<th>Materials of Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irrigation</td>
<td>Motors up to 250 HP</td>
<td>Temp Range: 37°F to 122°F (3°C to 50°C)</td>
<td></td>
</tr>
<tr>
<td>Municipal</td>
<td>Control boxes and VFD’s available</td>
<td>Max Sand Content: 50 ppm</td>
<td></td>
</tr>
<tr>
<td>Pressure Boosting</td>
<td>NEMA standard mounting specs</td>
<td>Max Immersion Depth: 1000’</td>
<td></td>
</tr>
<tr>
<td>Agriculture</td>
<td>High quality shaft bearings</td>
<td>Protection Class: IP 68</td>
<td></td>
</tr>
<tr>
<td>Industrial Process</td>
<td>Check valve standard on all model</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Wilo TWU**

4” Submersible Well Pumps with Noryl Impellers

<table>
<thead>
<tr>
<th>Application</th>
<th>Features &amp; Benefits</th>
<th>Technical Data</th>
<th>Materials of Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potable Water Supply</td>
<td>Noryl impellers for maximum wear and abrasive resistance</td>
<td>Electrical Connection: 1<del>115/230v 3</del>230/460/575v</td>
<td>Stainless Steel Construction</td>
</tr>
<tr>
<td>Irrigation</td>
<td>High quality shaft bearings for long life and easy installation</td>
<td>Temp Range: 37°F to 95°F (3°C to 35°C)</td>
<td>Noryl Impellers &amp; Shaft Sleeve</td>
</tr>
<tr>
<td>Municipal</td>
<td>Optional VFD’s and control boxes available</td>
<td>Max Sand Content: 50 ppm</td>
<td>Glass-Filled Polycarbonate Bearing Spider &amp; Diffuser</td>
</tr>
<tr>
<td>Pressure Boosting</td>
<td>NEMA standard mounting specifications</td>
<td>Max Immersion Depth: 1000’</td>
<td>NBR O-Ring</td>
</tr>
<tr>
<td>Agriculture</td>
<td>Vertical and horizontal installation possible</td>
<td>Protection Class: IP 68</td>
<td>Polyacetal Bearing</td>
</tr>
<tr>
<td>Industrial Process</td>
<td>Check valve standard on all models</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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
- 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 KM Series
Up to 24” Submersible Pumps

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 P Series
Bottom Intake

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

Max. Flow
7,200 USGPM

Max. Head
620 feet

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

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

Materials of Construction
- Stainless Steel pump shaft
- Ceram Coating available for increased durability
Wilo Energy Solutions is a trusted partner in your pursuit of energy savings. We don’t just sell pumps and mixers, we work with you to find energy savings.

For more information on energy solutions, please contact ESD@wilo-usa.com