



Wilo IL Vertical Split-Coupled Inline Pumps

Vertical Inline Split-Coupled, Single Stage Pumps – March, 2013

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Agenda

- 1. Features and Benefits
- 2. General Technical Specifications
- 3. Model Number Designation
- 4. Family Curves
- 5. Detailed Technical Features / Construction Details / Features and Benefits
- 6. Installation Instructions
- 7. Ordering Information



Features and Benefits

WILO Brain "Easy Read" Model Numbering System

• References flange size and performance in standard North American units

Uses Baldor NEMA "C" Frame Motors (other Manufacturer's are OK)

- All voltages and enclosures available
- Various efficiency types and VFD-ready
- Do not need to be Inverter Duty

Excellent Delivery Times – 72 hours

• Common pump ends and motors stocked in Thomasville, Georgia



Features and Benefits

1/4" Pressure Gauge Tappings Standard

- Suction and discharge
- Using square headed threaded plugs

Excellent Commercial Pump Warranty

• 24 months from date of purchase

German Designed and Built specifically for the North American Market

• Heavy duty design – extremely robust!



General Technical Specifications

Size Range – Flange Size

- 1-1⁄4" to 4"
- 46 Models @2 Pole (3600 RPM)
- 53 Models @ 4 Pole (1800 RPM)

Horsepower Range

- 2 Pole (3600 RPM) 1.0 to 60 Hp
- 4 Pole (1800 RPM) 0.5 to 30 Hp

Performance

- 2 Pole (3600 RPM), flows to 1600 US GPM, heads to 200' TDH
- 4 Pole (1800 RPM), flows to 430 US GPM, heads to 65' TDH



General Technical Specifications

Standard Construction Material Specification

- Cast iron, bronze fitted
- Standard and custom impeller trims (trimmed and tested in Thomasville, GA)
- All cast iron version available (optional)
- Inlet straightening vanes on models 3" and 4"

All models are ANSI Flanged

- 125 PSI raised face ANSI flanges
- High pressure volute (300 PSI rating, all models)

Standard Mechanical Seal

- Both water and water-glycol mixtures to + 230°F (+ 110°C)
- 285°F (141°C) rating available (special seal)

Noise and Vibration Levels to Hydronic Institute Standards

⁶ Wilo IL Vertical Split-Coupled Inline Pumps – Marcos D. Roimicher



Model Number Designation IL 2.5 50/260 - 2 Inline Vertical Split-Coupled Pump, Single Suction, Dry Rotor, • "Mechanical sealed" Bronze fitted flanged type • 2.5 Suction and Discharge Size in Inches 125# ANSI raised face standard (150# same as 125#) ۲ 250# ANSI raised face optional (300# same as 250#) • Maximum Pumping Head in Feet 50 260 Maximum Flow in US GPM # of Poles 2

• 2 poles = 3450 RPM, 4 poles = 1750 RPM

Note: Complete units include motor HP, motor enclosure, HP, # poles (RPM), frame size, phase and voltage



Family Curves – 4 Pole, 1750 RPM Models, 60 Hz, Post-March 2013





Family Curves – 4 Pole, 1750 RPM Models, 60 Hz, Pre-March 2013





Family Curves – 2 Pole, 3500 RPM Models, 60 Hz, Post-March 2013





Family Curves – 2 Pole, 3500 RPM Models, 60 Hz, Pre-March 2013





Detailed Technical Features

Painting

- 2-part epoxy paint as per internal standards
- Primer: Red Oxide Zinc Coated ~ 40 microns thick
- Final top coat: Enamel paint ~ 40 microns thick "Wilo green" (Pantone 334) as standard
- Customized paint available upon request, will require longer lead time and extra cost

Construction Features

- Electrophoretical coating inside of the pump body and lantern
- Pressure rating (standard construction) 150 PSI with 1.5 times the hydrostatic test pressure (Hydraulic Institute Standard)
- (2) Eye bolts for lifting
- Oversized radial ball bearings in the vertical motors



Detailed Technical Features









Installation Instructions

- Install with shaft horizontal or vertical (motor conduit facing up)
- Pump in any direction (vertical, horizontal, etc)
- If pumping vertical try to pump up (with air)
- Locate in system where suction pressure is as high as possible
 - Avoids cavitation
- Pump away from thermal expansion tank!
- Fluid should be relatively free of abrasive particles
 - Causes damage to mechanical seals
- When installing horizontally, read the IOM!
 - Watch motor and mechanical seal air vent orientation
- Do not install at the highest point (air)
- Do not install at the lowest point (dirt)









Installation Instructions

- Be careful with the suction side (laminar flow)
 - Recommendation 3 pipe diameters or more of straight pipe or device
- Always CHECK ROTATION!









Ordering Information

Application Type

- Water and/or water/glycol, 50% concentration, 230°F (110°C) max.
 - Use standard Wilo "S1" mechanical seal
- Other applications contact Wilo

Application Considerations

- Head and capacity required (especially for custom impeller trimming)
- Available voltage and number of phases (1 or 3)
- Motor Enclosure (dependant of ambient conditions)
 - TEFC standard (for all "flange mount motor types" C frame)
 - ODP optional
 - Motor efficiency ratings (EISA compliant Premium or High E)



Questions/Comments?

