WILO
Pumpen Intelligenz.

General Overview 2009

Pumps and systems for
building services, industry,
municipal water supply and disposal

Supply programme – 50 Hz – March 2009

Plan your systems simply and effectively with our Select software.

Contents

You can find information quickly on all pump applications in our catalogue edition 2009.

Pumpen Intelligenz.

City of Dortmund, Dortmund agency

Wilo is synonymous with the tradition of first-class German engineering throughout the world. Our pumps and pump systems for heating, cooling, air-conditioning, water supply and sewage disposal are used in commercial buildings, municipal facilities, industry and of course also in private homes.

Working closely with our customers over several decades, we have expanded our knowledge beyond pumps to become full system specialists. This knowledge forms the basis for solutions tailored specifically to the needs of our customers.
We call this Pumpen Intelligenz.

Private residential buildings

Commercial residential buildings

Municipal buildings

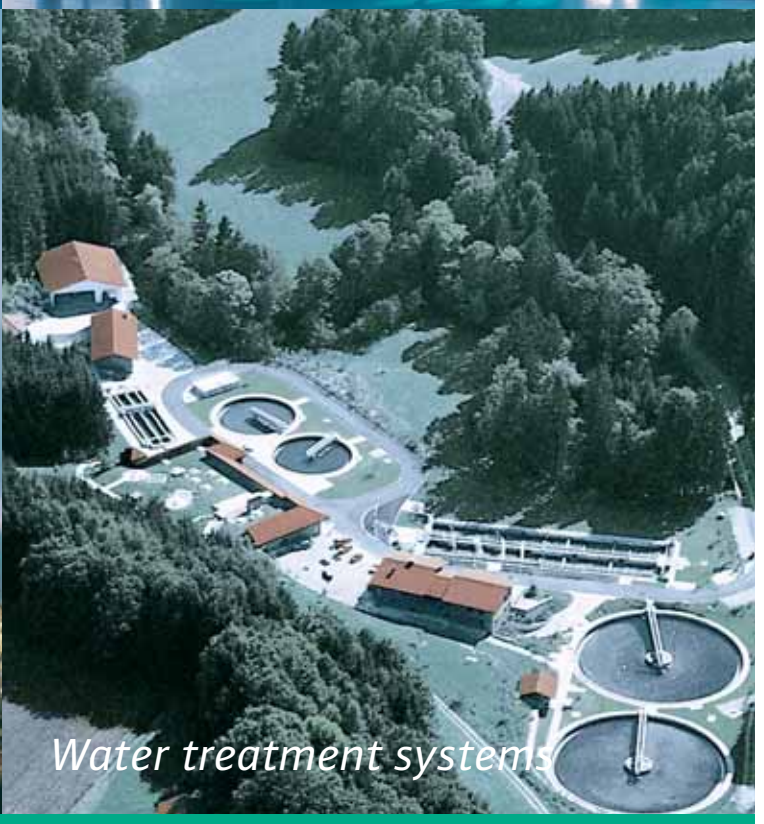
Hotels & food service industry

Pumps and pump systems for all fields of application.

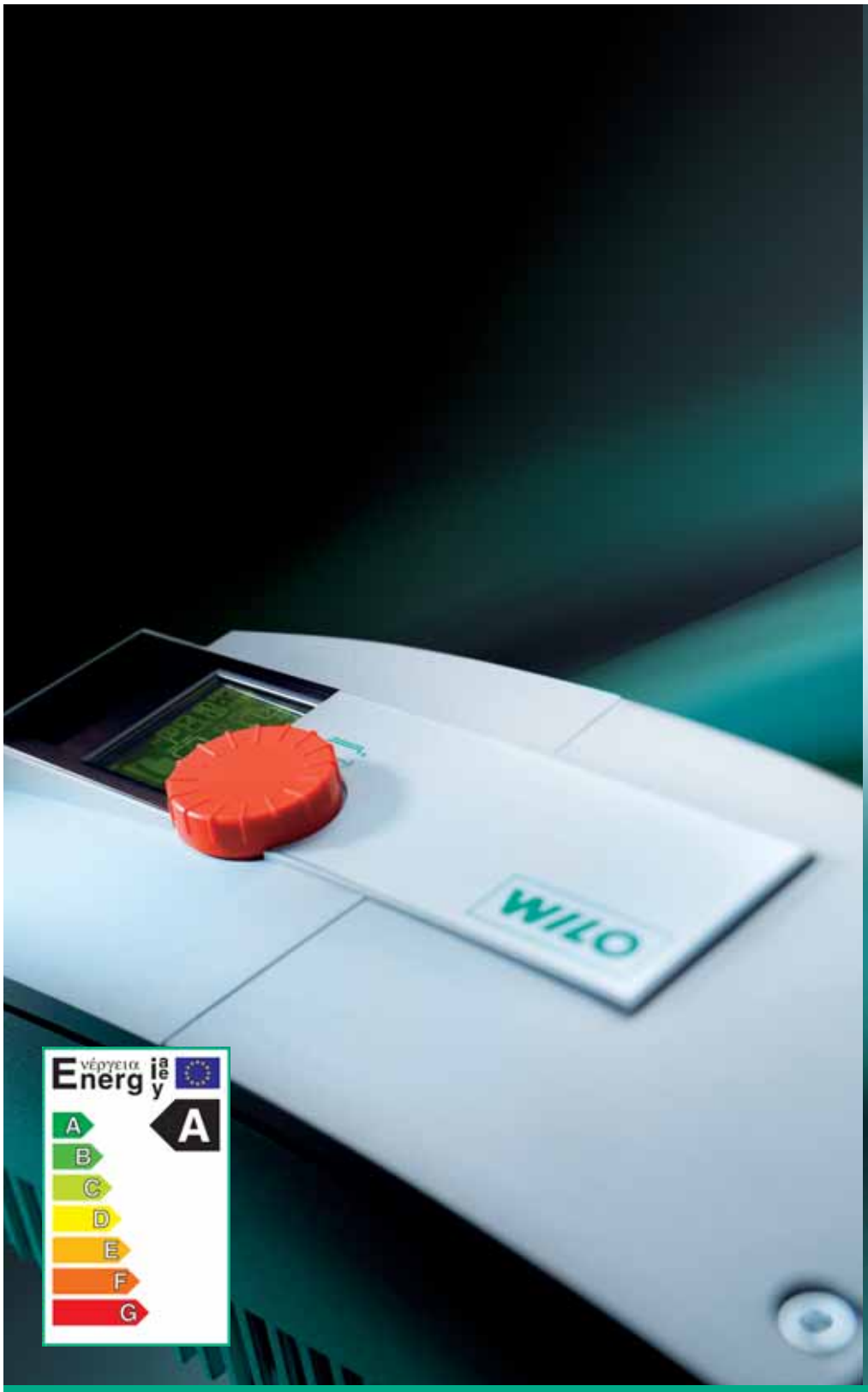
Public buildings

Administrative office buildings

Industry



Water treatment systems



Product expertise.

Pumps and pump systems by Wilo convince due to their high quality and technology that sets standards. Individual customer requirements and current market developments have frequently triggered innovations for highly successful product developments that were finally produced in series: for example Wilo-Stratos, the worldwide first high-efficiency pump for heating, cooling, air-conditioning – or Wilo-Multivert MVIS, the worldwide first glandless pump for pressure boosting. Our Wilo-EMU pumps with their unique Ceram coating are also highly successful in municipal sewage management.

Heating, air-conditioning, cooling

Wilo-Stratos

Heating, air-conditioning, cooling
Circulation pumps
Glandless pumps and accessories, package heat exchanger assembly

Catalogue A1

Heating, air-conditioning, cooling
Glanded pumps
Pumps with in-line design and accessories

Catalogue A2

Heating, air-conditioning, cooling, water supply
Monobloc and norm pumps, axial split case pumps
Pumps and accessories

Catalogue A3

Water supply
Domestic water supply, rainwater utilisation
Pumps, systems and accessories

Catalogue B1

Water supply
Borehole pumps, 3" to 24"
Pumps and systems for building services, domestic, municipal and industrial water supply

EMU Technologie

Catalogue B2

Water supply
High-pressure multistage centrifugal pumps
Pumps and accessories

Catalogue B3

Water supply
Pressure boosting systems
Single-pump and multi-pump systems in dry well installations

Catalogue B4

Water supply
Sprinkler pumps with VdS approval
Borehole pumps and accessories

EMU Technologie

Catalogue B5

Drainage and sewage
Drainage pumps
Submersible pumps, self-priming pumps and accessories

EMU Technologie

Catalogue C1

Drainage and sewage
Sewage pumps, DN 32 to DN 600
Submersible pumps and accessories for building services, municipal and industrial applications

EMU Technologie

Catalogue C2

Drainage and sewage
Wastewater and sewage lifting units, pumps stations
Pump systems and accessories

Catalogue C3

Drainage and sewage
Submersible mixers
Mixers, re-circulation pumps, jet cleaners, grit collector pumps and accessories for municipal application in water treatment systems

Catalogue C4

Heating, air-conditioning, cooling

Product sector	Glandless high-efficiency pumps	Glandless high-efficiency pumps	Glandless energy-saving pumps
Series	Wilo-Stratos ECO Wilo-Stratos ECO RG Wilo-Stratos ECO ... BMS Wilo-Stratos ECO-L	Wilo-Stratos Wilo-Stratos-D	Wilo-Star-E
			
Application	Hot-water heating systems of all kinds, industrial circulation systems	Hot-water heating systems of all kinds, air-conditioning systems, closed cooling circuits, industrial circulation systems	Hot-water heating systems of all kinds, industrial circulation systems
Design	Glandless circulation pump with threaded connection, EC motor and automatic power adjustment	Glandless circulation pump with threaded connection or flange connection, EC motor and automatic power adjustment.	Glandless circulation pump with threaded connection and automatic power adjustment
Volume flow, Q max. **Delivery head, H max.**	2.5 m³/h 5 m	61 m³/h 13 m	3.5 m³/h 5 m
Technical data	• Perm. temperature range +15 °C to +110 °C • Mains connection 1~230 V, 50 Hz • Protection class IP 44 • Nominal width Rp 1 and Rp 1½ • Max. operating pressure 10 bar	• Perm. temperature range -10 °C to +110 °C • Mains connection 1~230 V, 50 Hz • Protection class IP 44 • Nominal width Rp 1 to DN 100 • Max. operating pressure screw-end pumps 10 bar • Flange-end pumps 6/10 bar / 6 bar (special version: 10 bar or 16 bar)	• Perm. temperature range +20 °C to +110 °C • Mains connection 1~230 V, 50 Hz • Protection class IP 42 • Nominal width Rp ½, Rp 1 or Rp 1½ • Max. operating pressure 10 bar
Equipment/function	• EC motor • Control mode Δp-v; (BMS versions Δp-v and Δp-c) • No noise due to Autopilot • Red-button technology for easy operation • Blocking current-proof motor • Cable lead-in on both sides for easy installation • Quick connection with spring clips for easy electrical connection • Thermal insulation shell (not ECO-L) • ECO 25/1-5 RG version with red brass housing for systems where oxygen entry is possible • ECO-L version with connection for rapid ventilation • BMS version with connection for building automation (BA)	• EC motor • Pre-selectable control modes Δp-c, Δp-v, Δp-T • Automatic setback operation for additional savings potential • Dual pump management • Red-button technology for easy operation • Graphical pump display with rotating display • Remote control via infrared interface (IR-Module/IR-Monitor) • Integrated motor protection • System expansion by retrofit communication modules LON, CAN PLR etc. • Pump housing with cataphoretic coating • Combination flanges PN 6/PN 10 (for DN 32 to DN 65) • Thermal insulation shells as standard for heating applications	• Control mode Δp-v • Automatic setback operation for additional savings potential • Red-button technology for easy operation • Blocking current-proof motor; motor protection not required • Cable lead-in on both sides for easy installation • Quick connection with spring clips
Special features	• Energy efficiency class A • Up to 80% electricity savings compared to uncontrolled circulation pumps • Highest degrees of efficiency due to ECM technology • 5.8 W minimum power consumption • Safe starting due to high torque	• Energy efficiency class A • Up to 80% electricity savings compared to uncontrolled circulation pumps • Highest degrees of efficiency due to ECM technology	• Up to 50% electricity savings compared to uncontrolled heating pumps • Optimum heating comfort with maximum energy savings
	STIFTUNG WARENTEST **SEHR GUT (1,4)** **Im Test:** 9 Heizungspumpen test® 9/2007 www.test.de		
Catalogue	**A1** Circulation pumps Heating, air-conditioning, cooling	**A1** Circulation pumps Heating, air-conditioning, cooling	**A1** Circulation pumps Heating, air-conditioning, cooling

Glandless energy-saving pumps
Wilo-TOP-E
Wilo-TOP-ED

Hot-water heating systems of all kinds and industrial circulation systems

Glandless circulation pump with threaded connection or flange connection, EC motor and automatic power adjustment

62 m³/h
11 m

- Temperature range +20 °C to +110 °C
- Mains connection 1~230 V, 50 Hz
- Protection class IP 43
- Nominal width Rp 1 to DN 100
- Max. operating pressure screw-end pumps 10 bar
- Flange-end pumps 6/10 bar / 6 bar (special version: 10 bar or 16 bar)

- Pre-selectable control modes Δp-c, Δp-v, Δp-T
- Automatic setback operation for additional savings potential
- Pre-selectable speed for constant duty point
- Red-button technology for easy operation
- Display for state indication
- Motor protection, fault signal light and contact for collective fault signal
- Extendable BA interfaces
- Programming via manual operation level or operation and service device
- Pump housing with cataphoretic coating
- Combination flanges PN 6/PN 10 (DN 40 to DN 65)
- Standard thermal insulation shells.

- Up to 50% power savings compared to uncontrolled heating pumps
- Automatic control function
- Remote control via infrared interface (IR-Monitor)
- Pump communication in simple retrofit plug-in technology

A1 Circulation pumps

Heating, air-conditioning, cooling

Glandless automatic pumps
Wilo-Smart

Hot-water heating systems of all kinds and industrial circulation systems

Glandless circulation pump with threaded connection and automatic power adjustment

3.5 m³/h
6 m

- Perm. temperature range +2 °C to +95 °C
- Mains connection 1~230 V, 50 Hz
- Protection class IP 42
- Nominal width Rp 1
- Max. operating pressure 10 bar

- Automatic load adjustment
- Red-button technology for easy operation
- Blocking current-proof motor
- Quick connection with spring clips

- Automatic control function

A1 Circulation pumps

Heating, air-conditioning, cooling

Standard glandless pumps
Wilo-Star-RS
Wilo-Star-RSL
Wilo-Star-RSD

Hot-water heating systems of all kinds, industrial circulation systems, cold-water systems and air-conditioning systems

Glandless circulation pump with threaded connection. Pre-selectable speed stages for power adjustment

4.0 m³/h
5.5 m

- Perm. temperature range -10 °C to +110 °C
- Mains connection 1~230 V, 50 Hz
- Protection class IP 44
- Nominal width Rp ½, Rp 1 or Rp 1½
- Max. operating pressure 10 bar

- 3 manually selectable speed stages
- Wrench attachment point on pump housing
- Blocking-current proof motor, motor protection not required
- Cable lead-in on both sides for easy installation
- Quick connection with spring clips
- RSD version as double pump
- RSL version with connection for rapid ventilation

- Suitable for any installation position with horizontal shaft; terminal box in 3-6-9-12 o'clock positions
- 3 pre-selectable speed stages for load adjustment

STIFTUNG WARENTEST
GUT (2,4)
Im Test: 9 Heizungspumpen
test® 9/2007
www.test.de

A1 Circulation pumps

Heating, air-conditioning, cooling

Standard glandless pumps
Wilo-TOP-S
Wilo-TOP-SD

Series extension!

Hot-water heating systems of all kinds, industrial circulation systems, cold-water systems and air-conditioning systems

Glandless circulation pump with threaded connection or flange connection.

75 m³/h
19 m

- Perm. temperature range -20 °C to +130 °C In short-term operation (2 h) up to +140 °C
- For use with Wilo-Protect Module C: -20 °C to +110 °C
- Mains connection 1~230 V, 50 Hz 3~400 V, 50 Hz
- Protection class IP 44
- Nominal width Rp 1 to DN 100
- Max. operating pressure screw-end pumps 10 bar
- Flange-end pumps 6/10 bar / 6 bar (special version: 10 bar or 16 bar)

- Pre-selectable speed stages for power adjustment
- Combination flanges PN 6/PN 10 (DN 40 to DN 65)
- Pump housing with cataphoretic coating
- Thermal insulation shells as standard for heating applications
- Extendable motor protection, signal and display functions
- Cable lead-in on both sides for easy installation

- Pump communication in simple and safe retrofit plug-in technology
- Easy installation due to combination flanges up to nominal width DN 65

A1 Circulation pumps

Heating, air-conditioning, cooling

Heating, air-conditioning, cooling

Product sector	Standard glandless pumps	Standard glandless pumps	Standard glandless pumps
Series	Wilo-TOP-RL	Wilo-TOP-D	Wilo-AXL Wilo-SE Wilo-SE-TW
			
Application	Hot-water heating systems of all kinds, industrial circulation systems, cold-water systems and air-conditioning systems	Hot-water heating systems of all kinds, industrial circulation systems, cold-water systems and air-conditioning systems	Hot-water heating systems of all kinds, industrial circulation systems, cold-water systems and air-conditioning systems
Design	Glandless circulation pump with threaded connection or flange connection.	Glandless circulation pump with threaded connection or flange connection and fixed speed	Glandless circulation pump with threaded connection or flange connection.
Volume flow, Q max. **Delivery head, H max.**	14 m³/h 7.5 m	75 m³/h 2.9 m	18 m³/h 8.0 m
Technical data	• Perm. temperature range -20 °C to +130 °C • Mains connection 1~230 V, 50 Hz, 3~400 V, 50 Hz • Protection class IP 44 • Nominal width Rp 1 to DN 40 • Max. operating pressure screw-end pumps 10 bar flange-end pumps 6/10 bar or 6 bar (special version: 10 bar or 16 bar)	• Perm. temperature range -20 °C to +130 °C In short-term operation (2 h) up to +140 °C mains connection 1~230 V, 50 Hz, with KDS 3~400 V, 50 Hz and 3~230 V, 50 Hz • Protection class IP 44 • Nominal width Rp 1¼ to DN 125 • Max. operating pressure screw-end pumps 10 bar flange-end pumps 6/10 bar or 6 bar (special version: 10 bar or 16 bar)	• Perm. temperature range -20 °C to +130 °C • Mains connection 1~230 V, 50 Hz, 3~400 V, 50 Hz • Protection class IP 44 • Nominal width Rp 1 to DN 40 • Max. operating pressure screw-end pumps 10 bar flange-end pumps 6/10 bar or 6 bar (special version: 10 bar or 16 bar)
Equipment/function	• Pre-selectable speed stages for power control • Combination flanges PN 6/PN 10 (DN 40) • Pump housing with cataphoretic coating	• Blocking current-proof motor or full motor protection • Pump housing with cataphoretic coating • Combination flanges PN 6/PN 10 (DN 40 to DN 65) • Thermal insulation shells as standard for heating applications	• Pre-selectable speed stages for power control • Combination flanges PN 6/PN 10 (DN 40) • Pump housing with cataphoretic coating (does not apply to Wilo-AXL)
Special features	• Pre-selectable speed stages for manual power adjustment	• For the commercial area: for systems with low pipework resistances	• Pre-selectable speed stages for manual power adjustment
Catalogue	**A1** Circulation pumps Heating, air-conditioning, cooling	**A1** Circulation pumps Heating, air-conditioning, cooling	**A1** Circulation pumps Heating, air-conditioning, cooling

Glandless high-efficiency pumps
Wilo-Stratos-ECO-Z
Wilo-Stratos ECO-Z ... BMS

Secondary hot water circulation systems and similar systems in industrial and building services

Glandless circulation pump with threaded connection and automatic power adjustment

2.5 m³/h
5 m

- Fluid temperature of secondary hot water up to a water hardness of 3.2 mmol/l (18 °d) max. +65 °C
- In short-term operation (2 h) up to +70 °C
- Heating water: +15 °C to +110 °C
- Mains connection 1~230 V, 50 Hz
- Protection class IP 44
- Nominal width Rp 1
- Max. operating pressure 10 bar

- EC motor
- Control mode Δp-v (BMS versions Δp-v and Δp-c)
- Automatic setback operation for additional savings potential
- Red-button technology for easy operation
- Blocking current-proof motor
- Cable lead-in on both sides for easy installation
- Quick connection with spring clips
- Thermal insulation shell

- Corrosion-resistant pump housing in red brass for systems where oxygen entry is possible
- 3 times higher starting torque than conventional circulating pumps
- All plastic parts that come into contact with the fluid fulfil KTW recommendations
- Min. electronic power consumption only 5.8 W

Glandless high-efficiency pumps
Wilo-Stratos-Z
Wilo-Stratos-ZD

Secondary hot water circulation systems and similar systems in industrial and building services

Glandless circulation pump with threaded connection and automatic power adjustment

41 m³/h
12 m

- Perm. temperature range of secondary hot water up to a water hardness of 3.56 mmol/l (20 °d) max. +80 °C
- Heating water -10 °C to +110 °C
- Mains connection 1~230 V, 50 Hz
- Protection class IP 44
- Nominal width Rp 1 to DN 50
- Max. operating pressure screw-end pumps 10 bar flange pumps 6/10 bar

- EC motor
- Pre-selectable control modes Δp-c, Δp-v, Δp-T
- Pre-selectable speed for constant operation
- Automatic setback operation for additional savings potential
- Dual pump management
- Red-button technology for easy operation
- Graphical pump display with rotating display
- Remote control via infrared interface (IR-Module/IR-Monitor)
- Integrated motor protection
- System expansion due to retrofit communication modules LON, CAN PLR etc.
- Combination flanges PN 6/PN 10 (for DN 40 and DN 50)
- Thermal insulation shells as standard for heating applications

- Up to 80% electricity savings compared to uncontrolled circulation pumps
- Highest degrees of efficiency due to ECM technology
- Corrosion-resistant pump housing made of red brass

Standard glandless pumps
Wilo-Star-Z

Secondary hot water circulation systems and similar systems in industrial and building services

Glandless circulation pump with threaded connection or press fittings

4.8 m³/h
6.0 m

- Fluid temperature of secondary hot water up to a water hardness of 3.2 mmol/l (18 °d) max. +65 °C
- In short-term operation (2 h) up to +70 °C
- Heating water -10 °C to +110 °C
- Mains connection 1~230 V, 50 Hz or for Star-Z 25/2 DM 3~400 V, 50 Hz
- Protection class IP 44 (IP 42 for Star-Z 15)
- Nominal width Rp ½, Rp 1 or DN 15 press fittings
- Max. operating pressure 10 bar

- Constant speed or for Star-Z 25/6 three selectable speed stages
- Blocking-current proof motor, motor protection not required
- Quick connection with spring clips

- All plastic parts that come into contact with the fluid fulfil KTW recommendations

Standard glandless pumps
Wilo-TOP-Z

Secondary hot water circulation systems and similar systems in industrial and building services

Glandless circulation pump with threaded connection

65 m³/h
9 m

- Perm. temperature range of secondary hot water up to a water hardness of 3.56 mmol/l (20 °d) max. +80 °C
- Heating water -10 °C to +110 °C
- Mains connection 1~230 V, 50 Hz
- Protection class IP 44
- Nominal width Rp 1 to DN 50
- Max. operating pressure screw-end pumps 10 bar
- Flange pumps 6/10 bar

- Pre-selectable speed stages
- Thermal insulation as standard
- All plastic parts that come into contact with the fluid fulfil KTW recommendations
- Combination flange PN 6/PN 10 (DN 40 to DN 65)
- Extendable motor protection, signal and display functions
- Full motor protection
- Cable feed into terminal box possible on both sides (starting from P1 ≥ 250 W) with integrated strain relief

- Pump communication in simple and safely retrofit plug-in technology
- Easy installation due to combination flanges, nominal width DN 40 to DN 65

Heating, air-conditioning, cooling

	Standard glanded pumps Wilo-VeroLine IP-Z	Glandless high-efficiency pumps Wilo-Stratos-ECO-ST	Standard glandless pumps Wilo-Star-ST
Product sector **Series**			
			
Application	Secondary hot water circulation systems or circulation in heating, cold water and cooling water systems	Circulation in solar heating systems	Circulation in solar heating systems
Design	Glanded circulating pump in in-line design with threaded connection	Glandless circulation pump with threaded connection, EC motor and automatic power adjustment	Glandless circulation pump with threaded connection. Pre-selectable speed stages for power adjustment
Volume flow, Q max. **Delivery head, H max.**	5 m³/h 4.5 m	2.5 m³/h 5 m	4 m³/h 12 m
Technical data	• Perm. temperature range of secondary hot water up to a water hardness of 4.99 mmol/l (28 °d) max. +65 °C • In short-term operation (2 h) up to +110 °C • Heating water -8 °C to +110 °C • Mains connection 1~230 V, 50 Hz, 3~400 V, 50 Hz • Protection class IP 44 • Nominal width Rp 1 • Max. operating pressure 10 bar	• Per. temperature range +15 °C to +110 °C • Mains connection 1~230 V, 50 Hz • Protection class IP 44 • Nominal width Rp 1 • Max. operating pressure 10 bar	• Perm. temperature range -10 °C to +110 °C • In short-term operation (2 h) up to +120 °C • Mains connection 1~230 V, 50 Hz • Protection class IP 44 • Nominal width Rp ½ and Rp 1 • Max. operating pressure 10 bar
Equipment/function	Single-stage, low-pressure centrifugal pump in in-line design with • Mechanical seal • Threaded connection • Motor with one-piece shaft	• EC motor • Control modes Δp-v and Δp-c • Automatic setback operation for additional savings potential • Red-button technology for easy operation • Blocking current-proof motor • Cable lead-in on both sides for easy installation • Quick connection with spring clips • Connection for building automation (BA) • Pump housing with cataphoretic coating for external corrosion protection	• Three manually selectable speed stages • Wrench attachment point on pump housing • Blocking-current proof motor, motor protection not required • Cable lead-in on both sides for easy installation • Quick connection with spring clips for simple electric connection • Pump housing with cataphoretic coating for external corrosion protection
Special features	• High resistance to corrosive fluids due to stainless steel housing and Noryl impeller • High degree of versatility due to suitability for water hardness up to 28 °d • All plastic parts that come into contact with the fluid fulfil KTW recommendations	• Class A motor technology • Up to 80% electricity savings compared to uncontrolled circulation pumps • Highest degrees of efficiency due to ECM technology • Min. electronic power consumption only 5.8 W • 3 times higher starting torque than conventional circulating pumps	• Special hydraulics for application in solar thermal systems • Up to 30% less current consumption due to class B motor technology
Catalogue	**A1** Circulation pumps Heating, air-conditioning, cooling	**A1** Circulation pumps Heating, air-conditioning, cooling	**A1** Circulation pumps Heating, air-conditioning, cooling

Standard glandless pumps
Wilo-Star-RSG

Circulation in geothermal systems

Glandless circulation pump with threaded connection. Pre-selectable speed stages for power adjustment

5.5 m³/h
8.5 m
- Perm. temperature range -10 °C to +110 °C
- Mains connection 1~230 V, 50 Hz
- Protection class IP 44
- Nominal width Rp 1 and Rp 1¼
- Max. operating pressure 10 bar

- Three manually selectable speed stages
- Wrench attachment point on pump housing
- Blocking-current proof motor, motor protection not required
- Cable lead-in on both sides for easy installation
- Quick connection with spring clips
- Pump housing with cataphoretic coating

- Special hydraulics for use in geothermal systems

A1 Circulation pumps

Heating, air-conditioning, cooling

Glanded energy-saving pumps
in in-line design
Wilo-VeroLine-IP-E
Wilo-VeroTwin-DP-E

For pumping cold and hot water (in accordance with VDI 2035) without abrasive substances in heating, cold water and cooling water systems

Electronically controlled glanded pump in in-line design with flange connection and automatic power adjustment

105 m³/h
30 m
- Perm. temperature range -10 °C to +120 °C
- Mains connection 3~400 V, 50 Hz
- Protection class IP 55
- Nominal width DN 32 to DN 80
- Max. operating pressure 10 bar (special version: 16 bar)

Single-stage, low-pressure centrifugal pump in in-line design with
- Mechanical seal
- Flange connection
- Motor with integrated electronic speed control
- DP-E with switchover valve

Materials:
- Pump housing and lantern: EN-GJL-250
- Impeller: PP, fibreglass-reinforced
- Shaft: 1.4021
- Mechanical seal: AQ1EGG
  Other mechanical seals: on request

- Red-button technology and display for easy operation
- Infrared interface (IR monitoring)
- Optional interfaces via retrofit IF-Modules for BUS communication, LON or PLR
- Integrated dual pump management

A2 Glanded pumps

Heating, air-conditioning, cooling

Glanded energy-saving pumps
in in-line design
Wilo-CronoLine-IL-E
Wilo-CronoLine-IL-E ... BF
Wilo-CronoTwin-DL-E
Wilo-CronoTwin-DL-E ... BF

Series extension!

For pumping cold and hot water (in accordance with VDI 2035) without abrasive substances in heating, cold water and cooling water systems

Electronically controlled glanded pump in in-line design with flange connection and automatic power adjustment

650 m³/h
70 m
- Perm. temperature range -20 °C to +140 °C
- Mains connection 3~400 V, 50 Hz
- Protection class IP 54
- Nominal width DN 40 to DN 80
- Max. operating pressure 16 bar

Single-stage, low-pressure centrifugal pump in in-line design with
- Mechanical seal
- Flange connection
- Lantern
- Coupling
- Motor with integrated electronic speed control
- DL-E with switchover valve

Materials:
- Pump housing and lantern: EN-GJL-250
- Impeller:
  Standard version: EN-GJL-200
  Special version: G-CuSn 10
- Shaft: 1.4122
- Mechanical seal: AQ1EGG
  Other mechanical seals: on request

For IL-E and DL-E
- Control modes Δp-c und Δp-v
- Manual control mode (0–10 V/0–20 mA)
- Red-button technology for easy operation
- Infrared interface (IR monitoring)
- Optional interfaces via retrofit IF-Modules for BUS communication, LON or PLR

For IL-E ... BF, DL-E ... BF
- Control mode Δp-c
- Manual control mode (0–10 V/0–20 mA)

A2 Glanded pumps

Heating, air-conditioning, cooling

Glanded pumps in in-line design
Wilo-VeroLine-IPL
Wilo-VeroTwin-DPL

For pumping cold and hot water (in accordance with VDI 2035) without abrasive substances in heating, cold water and cooling water systems. Versions for secondary hot water circulation on request

Glanded pump in in-line design with threaded connection or flange connection

200 m³/h
50 m
- Perm. temperature range -10 °C to +120 °C
- Mains connection 3~400 V, 50 Hz
- Protection class IP 55
- Nominal width Rp 1 to DN 100
- Max. operating pressure 10 bar (special version: 16 bar)

Single-stage, low-pressure centrifugal pump in in-line design with
- Mechanical seal
- For flange connection with pressure measuring connection R ⅛
- Motor with one-piece shaft
- DPL with switchover valve

Materials:
- Pump housing and lantern: EN-GJL-250
- Impeller: Plastic / EN-GJL-200 (depending on pump type)
- Shaft: 1.4021 (version N: 1.4404)
- Mechanical seal: AQ1EGG
  Other mechanical seals on request

- Long motor life due to standard condensate drainage holes in the motor housings
- Series design: Motor with one-piece shaft
- Version N: Standard motor B5 or V1

A2 Glanded pumps

Heating, air-conditioning, cooling

Heating, air-conditioning, cooling

Product sector	Glanded pumps in in-line design	Special glanded pumps in in-line design	Special glanded pumps in in-line design
Series	Wilo-CronoLine-IL Wilo-CronoTwin-DL	Wilo-VeroLine-IPS	Wilo-VeroLine-IPH-W Wilo-VeroLine-IPH-O
			
Application	For pumping cold and hot water (in accordance with VDI 2035) without abrasive substances in heating, cold water and cooling water systems	For pumping cold and hot water (in accordance with VDI 2035) without abrasive substances in heating, cold water and cooling water systems	IPH-W: For pumping hot water without abrasive substances IPH-O: For pumping heat transfer oil
Design	Glanded pump in in-line design with flange connection	Glanded pump in in-line design with threaded connection or flange connection	Glanded pump in in-line design with flange connection
Volume flow, Q max.	1,140 m³/h	23 m³/h	80 m³/h
Delivery head, H max.	85 m	4 m	38 m
Technical data	• Perm. temperature range -20 °C to +140 °C • Mains connection 3~400 V, 50 Hz • Protection class IP 55 • Nominal width DN 32 to DN 250 • Max. operating pressure 16 bar (25 bar on request)	• Perm. temperature range -10 °C to +140 °C • Mains connection 3~400 V, 50 Hz • Protection class IP 55 • Nominal width Rp 1, DN 40 and DN 50 • Max. operating pressure 10 bar or 6 bar for flange connection	• Perm. temperature range -10 °C to +350 °C • Mains connection 3~400 V, 50 Hz • Protection class IP 55 • Nominal width DN 20 to DN 80 • Max. operating pressure 23 bar
Equipment/function	Single-stage, low-pressure centrifugal pump in in-line design with • Mechanical seal • Flange connection with pressure measuring connection R 1/8 • Lantern • Coupling • IEC standard motor • DL with switchover valve Materials: • Pump housing and lantern: Standard version: EN-GJL-250 Optional: Spheroidal cast iron EN-GJS-400-18-LT • Impeller: Standard: EN-GJL-200 Special version: Red brass G-CuSn 10 • Shaft: 1.4122 • Mechanical seal: AQ1EGG Other mechanical seals: on request	Single-stage, low-pressure centrifugal pump in in-line design with • Mechanical shaft seal or stuffing box • Threaded or flange connection with pressure measuring connection R 1/8 • Standard motor Materials: • Pump housing and lantern: EN-GJL-200 • Impeller: Plastic • Shaft: 1.4021 • Mechanical seal: BVEGG Other mechanical seals on request	Single-stage, low-pressure centrifugal pump in in-line design with • Mechanical seal • Flange connection • Lantern with cooling fins • Standard motor
Special features	• Long motor life due to standard condensate drainage holes in the motor housings • Corrosion protection due to cataphoretic coating • Easy to install due to feet on the pump housing with threaded bores	• High degree of versatility due to shaft sealing with mechanical seal or stuffing box	• Self-cooled mechanical seal, independent of direction of rotation • Large range of applications due to wide fluid temperature range IPH-W: -10 °C to +210 °C, max. 23 bar IPH-O: -10 °C to +350 °C, max. 9 bar
Catalogue	**A2** Glanded pumps Heating, air-conditioning, cooling	**A2** Glanded pumps Heating, air-conditioning, cooling	**A2** Glanded pumps Heating, air-conditioning, cooling

Glanded monobloc pumps
Wilo-CronoBloc BL

For pumping cold and hot water (in accordance with VDI 2035) without abrasive substances in heating, cold water and cooling water systems

Glanded pump in monobloc design with flange connection

360 m³/h
105 m
- Perm. temperature range -20 °C to +140 °C
- Mains connection 3~400 V, 50 Hz
- Protection class IP 55
- Nominal width DN 32 to DN 150
- Max. operating pressure 16 bar (25 bar on request)

Single-stage low-pressure centrifugal pump in monobloc design, with axial suction port and radially arranged pressure port with
- Mechanical seal
- Flange connection with pressure measuring connection R 1/8
- Lantern
- Coupling
- IEC standard motor

- Meets user requirements due to performance and main dimensions in accordance with EN 733
- Long motor life due to standard condensate drainage holes in the motor housing
- Corrosion protection due to cataphoretic coating

A3 Monobloc and norm pumps

Heating, air-conditioning, cooling, water supply

Glanded monobloc pumps
Wilo-BAC

For pumping water-glycol mixtures with 20 to 40% glycol volume proportion

Glanded pump in monobloc design with threaded connection or Victaulic connection

80 m³/h
25 m
- Perm. temperature range -15 °C to +60 °C
- Mains connection 3~400 V, 50 Hz
- Protection class IP 54
- Nominal width G2/G 1½ (only BAC 40 ...) or Victaulic connection 60.3/48.3 mm (BAC 40 ...) 73.0/73.0 mm (BAC 70 ...)
- Max. operating pressure 6 bar

Single-stage low-pressure centrifugal pump in monobloc design, with axial suction port and radially arranged pressure port

- Corrosion-resistant pump housing and impeller
- Type R with Victaulic connection

A3 Monobloc and norm pumps

Heating, air-conditioning, cooling, water supply

Norm pumps
Wilo-CronoNorm NL
Wilo-VeroNorm-NPG

For pumping heating water in accordance with VDI 2035, water/glycol mixtures, cooling/cold water and process water. For applications in municipal water supply, irrigation, building services, industry, power stations etc.

Single-stage low-pressure centrifugal pump mounted on a baseplate

3,000 m³/h
140 m
- Perm. temperature range -20 °C to +140 °C
- Mains connection 3~400 V, 50 Hz
- Protection class IP 55
- Nominal width on suction side DN 50 to DN 500
- Nominal width on pressure side DN 32 to DN 500
- Maximum operating pressure: depending on type and application up to 16 bar

Single-stage, low-pressure centrifugal pump in monobloc design with coupling, coupling protection, motor and baseplate
- Mechanical seal or stuffing box
- Wilo factory motor or ATB motor

Materials:
- Pump housing: EN-GJL-250
- Impeller: EN-GJL-250
- Shaft: 1.4028

- Other materials and versions on request

A3 Monobloc and norm pumps

Heating, air-conditioning, cooling, water supply

Pumps with axially split housing
Wilo-SCP

New!

For pumping heating water in accordance with VDI 2035, water/glycol mixtures, cooling/cold water and process water. For applications in municipal water supply, irrigation, building services, industry, power stations etc.

Low-pressure centrifugal pump with axially split housing mounted on a baseplate

3,400 m³/h
245 m
- Perm. temperature range -20 °C to +120 °C
- Mains connection 3~400 V, 50 Hz
- Protection class IP 55
- Nominal width on suction side DN 65 to DN 500
- Nominal width on pressure side DN 50 to DN 400
- Max. operating pressure: depending on type 16 or 25 bar

1- or 2-stage, low-pressure centrifugal pump in monobloc design
- Delivered as complete unit (pump with coupling, coupling protection, motor and baseplate) or without motor or only pump hydraulics
- Shaft seal with mechanical seal or stuffing box
- 4-pole and 6-pole motors

Materials:
- Pump housing: EN-GJL-250
- Impeller: GCuSn5 ZnPb
- Shaft: X12Cr13

- Higher capacities up to 17,000 m³/h on request
- Special motors and other materials on request

A3 Monobloc and norm pumps

Heating, air-conditioning, cooling, water supply

Heating, air-conditioning, cooling

Product sector	Switchgears / package heat exchanger assembly	Control devices	Pump control
Series	Wilo-SK Wilo-SR System Wilo-SD System Wilo-Safe	Wilo-CC-HVAC System Wilo-CR System Wilo-CRn System Wilo-VR-HVAC System	Wilo-IR-Module/Wilo-Dia-Log/IR-Monitor Wilo-IR-Module Stratos/Wilo-IR-Module Wilo-Protect Module C Wilo-Control AnaCon Wilo-Control DigiCon/DigiCon-A
			
Application	Switchgear for controlling 1 or 2 pumps Wilo-Safe: Floor heating systems of all kinds, system separation for oxygen-rich fluids	Switchgears for controlling 1 or 6 pumps	Wilo-Control products for connecting pumps to the building automation
Design	Wilo-Safe: Complete system/basic device for hydraulic separation of floor heating systems		
Volume flow, Q max.	-	-	-
Delivery head, H max.	-	-	-
Technical data	Wilo-Safe: • Max. operating pressure 6 bar • Perm. temperature range +20 °C to +90 °C • Mains connection 1~230 V, 50 Hz • Heat exchanger 5-24 kW		
Equipment/function	Wilo-SK • Timer switchgear • Motor protection tripping devices Wilo-SR • Stage switchgears for 4-stage glandless pumps or dual pump switchgear Wilo-SD • Switchgear for double pumps in glanded design Wilo-Safe • The complete system is ready-mounted and pressure-checked	Wilo-CC-HVAC system and Wilo-CR system • Comfort control system for 1 to 6 pumps switched in parallel, with fixed speed Wilo-CRn system • Comfort control system for 1 to 6 pumps switched in parallel, with integrated speed control Wilo-VR-HVAC system • Vario controller for 1 to 4 pumps switched in parallel, with integrated speed control	Wilo-IR-Module/Dia-Log/IR-Monitor • Remote control with infrared interface for electronically controlled Wilo pumps Wilo-IF-Modules Stratos/IF-Modules • Plug-in modules for building automation connection of Stratos, IP-E, DP-E and IL-E/DL-E pumps Wilo-Protect Module C • Plug-in module for building automation control of TOP-S/SD pumps without speed control Wilo-Control AnaCon and DigiCon/DigiCon-A • Analogue and digital interface converter for connecting pumps to the building automation
Special features	• Special versions on request (apart from Wilo-Safe)	• Special versions on request	
Catalogue	**A1, A2** Heating, air-conditioning, cooling	**A1, A2, A3** Heating, air-conditioning, cooling, water supply	**A1, A2** Heating, air-conditioning, cooling


Wilo-CronoLine-IL

Water supply

Wilo-Helix-VE

Heating, air-conditioning, cooling
Circulation pumps
Glandless pumps and accessories, package heat exchanger assembly

Catalogue A1

Heating, air-conditioning, cooling
Glanded pumps
Pumps with in-line design and accessories

Catalogue A2

Heating, air-conditioning, cooling, water supply
Monobloc and norm pumps, pumps with axially split housing
Pumps and accessories

Catalogue A3

Water supply
Domestic water supply, rainwater utilisation
Pumps, systems and accessories

Catalogue B1

Water supply
Borehole pumps, 3" to 24"
Pumps and systems for building services, domestic, municipal and industrial water supply

EMU Technologie

Catalogue B2

Water supply
High-pressure multistage centrifugal pumps
Pumps and accessories

Catalogue B3

Water supply
Pressure boosting systems
Single-pump and multi-pump systems in dry well installations

Catalogue B4

Water supply
Sprinkler pumps with VdS approval
Borehole pumps and accessories

EMU Technologie

Catalogue B5

Drainage and sewage
Drainage pumps
Submersible pumps, self-priming pumps and accessories

EMU Technologie

Catalogue C1

Drainage and sewage
Sewage pumps, DN 32 to DN 600
Submersible pumps and accessories for building services, municipal and industrial applications

EMU Technologie

Catalogue C2

Drainage and sewage
Wastewater and sewage lifting units, pumps stations
Pump systems and accessories

Catalogue C3

Drainage and sewage
Submersible mixers
Mixers, re-circulation pumps, jet cleaners, grit collector pumps and accessories for municipal application in water treatment systems

Catalogue C4

Water supply

Product sector	Self-priming multistage pumps	Self-priming multistage pumps	Non-self-priming multistage pumps
Series	Wilo-Jet WJ	Wilo-MultiCargo MC	Wilo-MultiPress MP
			
Application	For pumping water from wells for filling, pumping empty, transferring by pumping, irrigation and sprinkling. As emergency pump for overflows	For domestic water supply, sprinkling, irrigation, spraying and rainwater utilisation	For domestic water supply, sprinkling, irrigation, spraying and rainwater utilisation
Design	Self-priming multistage centrifugal pumps	Self-priming multistage centrifugal pumps	Non-self-priming multistage centrifugal pumps
Volume flow, Q max.	5 m³/h	7 m³/h	8 m³/h
Delivery head, H max.	40 m	58 m	56 m
Technical data	• Mains connection 1~230 V, 50 Hz / 3~400 V, 50 Hz • Inlet pressure max. 1 bar • Fluid temperature max. +5 °C to +35 °C • Operating pressure max. 6 bar • Protection class IP 44 • Connection on suction and pressure sides Rp 1	• Mains connection 1~230 V, 50 Hz / 3~400 V, 50 Hz • Inlet pressure max. 4 bar • Fluid temperature max. +5 °C to +35 °C • Ambient temperature max. +40 °C • Operating pressure max. 8 bar • Protection class IP 54 • Connections on suction and pressure sides Rp 1	• Mains connection 1~230 V, 50 Hz / 3~400 V, 50 Hz • Inlet pressure max. 6 bar • Fluid temperature max. +5 °C to +35 °C • Ambient temperature max. +40 °C • Operating pressure max. 10 bar • Protection class IP 54 • Connections on suction and pressure sides Rp 1
Equipment/function	• With or without carrying frame, depending on the version • For single-phase AC motor (1~230 V) • Connection cable with plug • On/Off switch • Thermal motor protection switch	• Directly flanged motor • Thermal motor protection switch for single-phase AC motor (1~230 V)	• Directly flanged motor • Thermal motor protection switch for 1~230 V version
Special features	• Ideal for portable outdoor applications (hobby, garden)	• Low-noise • Ideal as a base-load pump for rainwater utilisation	• Low-noise • Ideal as a base-load pump for rainwater utilisation
Catalogue	**B1** Domestic water supply Water supply	**B1** Domestic water supply Water supply	**B1** Domestic water supply Water supply

Cistern pumps
Wilo-Sub TWI 5/TWI 5-SE

For domestic water supply from wells, cisterns and tanks. For irrigation, sprinkling, rainwater utilisation or for pumping out water

Submersible pumps

16 m³/h
86 m

- Mains connection 1~230 V, 50 Hz / 3~400 V, 50 Hz
- Fluid temperature max. +3 °C to +40 °C
- Operating pressure max. 10 bar
- Protection class IP 68
- Connection on pressure side Rp 1¼
- Connection on suction side for SE version Rp 1¼

- Connection cable, 20 m
- Standard inlet basket for TWI 5 version
- Inlet connecting piece for TWI 5-SE version
- Thermal motor protection for EM version (1~230 V)

- Ready-to-plug in EM version (1~230 V)
- Pump (housing, stages, impellers) made entirely of stainless steel 1.4301 (AISI 304)
- Self-cooling motor
- Installation possible outside water
- Thermal motor protection for EM version (1~230 V)

B1 Domestic water supply

Water supply

Filter block pumps
Wilo-FilTec FBS

For pumping swimming pool water in accordance with DIN 19643, Parts 1 to 5

Self-priming filter block pumps

16 m³/h
28 m

- Mains connection 1~230 V, 50 Hz / 3~400 V, 50 Hz
- Suction head max. 3 m
- Fluid temperature max. +5 °C to +40 °C
- Protection class IP 54

- Low-noise glandless technology
- Preliminary filter

- Patented, water-cooled, particularly low-noise glandless pump motor
- Low-vibration bearing configuration without anti-friction bearings
- Lightweight, compact design due to fibreglass-reinforced, pressure-resistant and heat-resistant plastic
- Large preliminary filter for protecting the pump

B1 Domestic water supply

Water supply

Self-priming water-supply units
Wilo-Jet HWJ
Wilo-Jet FWJ

For domestic water supply, sprinkling, irrigation, spraying and rainwater utilisation

Self-priming water-supply units

5 m³/h
40 m

- Mains connection 1~230 V, 50 Hz / 3~400 V, 50 Hz
- Inlet pressure max. 1 bar
- Start-up pressure 1.5 bar
- Switch-off pressure min. 2.2 bar
- Fluid temperature +5 °C to +35 °C
- Operating pressure max. 6 bar
- Protection class IP 44
- Connection on suction and pressure sides Rp 1

- Directly flanged motor
- Connection cable with plug
- Thermal motor protection switch
- Automatic pump control
- Low-water cut-out switchgear

- Ideal for outdoor applications (hobby, garden)
- Completely pre-installed system
- Electronic pump control
- All parts that come in contact with the fluid are corrosion-free

B1 Domestic water supply

Water supply

Self-priming water-supply units
Wilo-Jet HMC
Wilo-Jet FMC

For domestic water supply, sprinkling, irrigation, spraying and rainwater utilisation

Self-priming water-supply units

7 m³/h
58 m

- Mains connection 1~230 V, 50 Hz / 3~400 V, 50 Hz
- Suction head max. 8 m
- Inlet pressure max. 4 bar
- Fluid temperature +5 °C to +35 °C
- Operating pressure max. 8 bar
- Pressure switch setting range 1-5 bar
- Protection class IP 54
- Connection on suction and pressure sides Rp 1

- Directly flanged motor
- Pressure switch
- Diaphragm pressure vessel for single-phase AC motor
- Connection cable with plug
- Thermal motor protection switch

- Ideal system for supplying water throughout the building
- Low-noise due to multistage design
- Outstanding self-priming capability due to innovative priming wing
- All parts that come in contact with the fluid are corrosion-free
- Reduction of switch-on frequency and avoidance of pressure surges due to 50 l diaphragm pressure vessel

B1 Domestic water supply

Water supply

Water supply

Product sector	Self-priming water-supply units	Water-supply units	Water-supply units
Series	Wilo-SilentMaster	Wilo-MultiPress HMP Wilo-MultiPress FMP	Wilo-Sub TWI 5-SE Plug & Pump
			
Application	For domestic water supply, sprinkling, irrigation, spraying and rainwater utilisation	For domestic water supply, sprinkling, irrigation, spraying and rainwater utilisation	For domestic water supply, sprinkling, irrigation, spraying and rainwater utilisation
Design	Water-supply unit Type 303, non self-priming Types 304 and 305, self-priming	Non-self-priming water-supply units	Water-supply system with submersible pump, control and complete accessories
Volume flow, Q max. **Delivery head, H max.**	4 m³/h 52 m	8 m³/h 56 m	6 m³/h 65 m
Technical data	• Mains connection 1~230 V, 50 Hz • Suction head max. 8 m • Inlet pressure max. 4 bar • Fluid temperature +5 °C to +35 °C • Operating pressure max. 8 bar • Protection class IP 54 • Connection on suction and pressure sides Rp 1	• Mains connection 1~230 V, 50 Hz / 3~400 V, 50 Hz • Inlet pressure max. 6 bar • Fluid temperature +5 °C to +35 °C • Operating pressure max. 10 bar • Pressure switch setting range 1–5 bar • Protection class IP 54 • Connection on suction and pressure sides Rp 1	• Mains connection 1~230 V, 50 Hz / 3~400 V, 50 Hz • Fluid temperature +3 °C to +40 °C • Operating pressure max. 10 bar • Protection class IP 68 • Connection on suction and pressure sides Rp 1¼
Equipment/function	• Self-priming multistage centrifugal pump with directly flanged motor • Mains connection 1~230 V, 50 Hz • Connection cable • Thermal motor protection switch • Fully automatic control • Low-water cut-out switchgear	• Directly flanged motor • Pressure switch • Diaphragm pressure vessel for single-phase AC motor • Connection cable with plug • Thermal motor protection switch	• Connection cable, 20 m • Standard inlet basket for TWI 5 version • Inlet connecting piece for TWI 5-SE version • Thermal motor protection for EM version (1~230 V)
Special features	• Quiet operation 43 dB (A) • Compact water supply system • Dry-running protection system • New innovative design • Integrated non-return valve • Ready-to-plug, easy installation	• Ideal system for supplying water throughout the building • Low-noise due to multistage design • All parts that come in contact with the fluid are corrosion-free • Reduction of switch-on frequency and avoidance of pressure surges due to large-sized 50 l diaphragm pressure vessel	• Ready-to-plug in EM version (1~230 V) • Pump (housing, stages, impellers) made entirely of stainless steel 1.4301 (AISI 304) • Self-cooling motor • Complete accessories • Installation possible outside water • Thermal motor protection for EM version (1~230 V)
Catalogue	**B1** Domestic water supply Water supply	**B1** Domestic water supply Water supply	**B1** Domestic water supply Water supply

Rainwater utilisation systems
Wilo-RainSystem AF Basic
Wilo-RainSystem AF Comfort

Rainwater utilisation for saving potable water in conjunction with cisterns or tanks

Ready-to-plug rainwater utilisation system

4 m³/h
52 m
- Mains connection 1~230 V, 50 Hz
- Suction head max. 8 m
- Fluid temperature max. +5 °C to +35 °C
- Operating pressure max. 8 bar
- Replenishment reservoir 11 l
- Protection class IP 42

- Compact, ready-to-plug rainwater utilisation system
- Low-noise, due to multistage centrifugal pump and complete encapsulation of the system (AF Comfort)
- Fulfilment of DIN 1988 and EN 1717
- High economic efficiency due to fresh water replenishment according to requirements
- Flow-optimised and noise-optimised replenishment reservoirs
- All parts that come in contact with the fluid are corrosion-free
- For AF Comfort: automatic support function for evacuation of air from the suction line

Rainwater utilisation systems
Wilo-RainSystem AF 150

Rainwater utilisation in multi-family houses and small trade businesses for saving potable water in conjunction with cisterns or tanks

Automatic rainwater utilisation system with 2 self-priming pumps

12 m³/h
58 m
- Mains connection 1~230 V, 50 Hz
- Suction head max. 8 m
- Fluid temperature max. +5 °C to +35 °C
- Operating pressure max. 8 bar
- Replenishment reservoir 150 l
- Protection class IP 41

- Low-noise due to multistage centrifugal pumps
- All parts that come in contact with the fluid are corrosion-free
- Maximum operational safety due to fully electronic RainControl Professional controller
- High economic efficiency due to fresh water replenishment according to requirements
- High reliability due to DVGW-certified, flow-optimised and noise-optimised replenishment reservoir

Rainwater utilisation systems
Wilo-RainSystem AF 400

Hybrid system for commercial and industrial rainwater utilisation for saving potable water in conjunction with cisterns or tanks

Automatic rainwater utilisation system with run-down tank container and 2 non self-priming pumps

16 m³/h
56 m
- Mains connection 3~400 V, 50 Hz
- Fluid temperature max. +5 °C to +35 °C
- Operating pressure max. 10 bar
- Replenishment reservoir 400 l
- Protection class IP 54

- Low-noise due to multistage centrifugal pumps
- All parts that come in contact with the fluid are corrosion-free
- Maximum operational safety due to trendsetting fully electronic RainControl Hybrid controller
- High economic efficiency due to fresh water replenishment according to requirements
- High reliability due to flow-optimised and noise-optimised overall concept
- Automatic control of the feeding pump
- System/level control in low-voltage range

Rainwater utilisation system
Wilo-RainCollector II RWN

Rainwater utilisation for saving potable water

Ready-to-plug rainwater utilisation system with rainwater tank

4 m³/h
52 m
- Mains connection 1~230 V, 50 Hz
- Fluid temperature max. +5 °C to +35 °C
- Operating pressure max. 6 bar
- Replenishment reservoir 1,500 l
- Protection class IP 54

- Low-noise, self-priming pump ensures almost noiseless system operation
- Corrosion-free
- Can be expanded at any time
- Multi-tank system with replenishment and setting zone for better water quality (Wilo-MKS system)
- Maximum connection flexibility due to rotating rainwater inlet

Product sector	Borehole pumps	Borehole pumps	Borehole pumps
Series	Wilo-Sub TWU 3 ... Wilo-Sub TWU 4 ... Wilo-Sub TWU 4 ...-QC Series modification	Wilo-Sub TWU 3 ... Plug & Pump Wilo-Sub TWU 4 ... Plug & Pump	Wilo-Sub TWU 6 ... Wilo-Sub TWU 8 ...
			
Application	Domestic water supply from boreholes, wells and cisterns; sprinkling, irrigation and pressure boosting; pumping water without long-fibre and abrasive constituents	Water-supply unit for water supply from boreholes, wells and cisterns; domestic water supply, sprinkling and irrigation; pumping water without long-fibre and abrasive constituents	Water supply from boreholes and cisterns; sprinkling and irrigation for lowering the water level; for pumping water without long-fibre and abrasive constituents
Design	Borehole pump, multistage	Water-supply unit with borehole pump, control and complete accessories.	Borehole pump, multistage
Volume flow, Q max.	23 m³/h	5.5 m³/h	135 m³/h
Delivery head, H max.	290 m	95 m	375 m

Technical data	• Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz
	• Submerged operating mode: S1
	• Fluid temperature: 3–40 °C
	• Min. flow at motor: 0.08 m/s
	• Max. sand content:
	  • TWU 3- ... : 40 g/m³
	  • TWU 4- ... : 50 g/m³
	• Up to 20 starts per hour
	• Max. submersion depth:
	  • TWU 3- ... : 60 m
	  • TWU 4- ... : 200 m
	• Protection class:
	  • TWU 3- ... : IP 58
	  • TWU 4- ... : IP 68
		• Mains connection: 1~230 V, 50 Hz
		• Submerged operating mode: S1
		• Fluid temperature: 3–40 °C
		• Min. flow at motor: 0.08 m/s
		• Max. sand content:
		  • TWU 3- ... : 40 g/m³
		  • TWU 4- ... : 50 g/m³
		• Up to 20 starts per hour
		• Max. submersion depth:
		  • TWU 3- ... : 60 m
		  • TWU 4- ... : 200 m
		• Protection class:
		  • TWU 3- ... : IP 58
		  • TWU 4- ... : IP 68
			• Mains connection: 3~400 V, 50 Hz
			• Submerged operating mode: S1
			• Fluid temperature: 3–30 °C
			• Min. flow at motor: 0.16 m/s (4" motors = 0.08 m/s)
			• Max. sand content: 50 g/m³
			• Up to 20 starts per hour
			• Max. submersion depth:
			  • TWU 6 ... = 250 m
			  • TWU 8 ... = 350 m
			• Protection class: IP 68

Equipment/function	• Submersible, multistage borehole pump with radial impellers • Integrated non-return valve • NEMA coupling • Single-phase or three-phase AC motor • Integrated thermal motor protection for single-phase motor	• Submersible, multistage borehole pump with radial impellers • Integrated non-return valve • NEMA coupling • Single-phase motor • Integrated thermal motor protection • Dry-running protection system (only for TWU 4- ... -P&P with Wilo-Sub-I package)	• Submersible, multistage borehole pump • Radial or semi-axial impellers • Integrated non-return valve • NEMA coupling • Three-phase AC motor • Encapsulated motor
Special features	• Rewindable motors (TWU 3- ...) • Integrated non-return valve • Parts that come in contact with the fluid are corrosion-free • Pump connection head and flange made of stainless steel (TWU 3- ...) • Vertical and horizontal installation possible • Single-phase version with starting capacitor and On/Off switch	• Electrical system components already prewired • Easy installation and operation • Integrated non-return valve • Safe motor operation due to high starting torque and shake-free function (TWU 4- ... -P&P) • Lightning and overload protection integrated in the motor (TWU 4- ... -P&P)	• Impellers made of bronze • Integrated non-return valve • Immersion depth up to 350 m • Vertical and horizontal installation possible
Catalogue	**B2, B1** Water supply	**B2, B1** Water supply	**B2, B1** Water supply

Borehole pumps
Wilo-Sub TWI 4 ...
Wilo-Sub TWI 6 ...
Wilo-Sub TWI 8 ...

Water and potable water supply from boreholes and cisterns; process water supply; municipal and industrial water supply; sprinkling and irrigation; pressure boosting; lowering the water level; pumping water without long-fibre and abrasive constituents

Borehole pump, multistage

130 m³/h
420 m

- Mains connection: 1~230 V, 50 Hz (TWI 4 ...) or 3~400 V, 50 Hz
- Submerged operating mode: S1
- Fluid temperature: 3–30 °C
- Min. flow at motor: 0.1–0.5 m/s
- Max. sand content: 35 g/m³
- Up to 20 starts per hour
- Max. submersion depth: 100–300 m
- Protection class: IP 68

- Submersible, multistage borehole pump with radial or semi-axial impellers
- Integrated non-return valve
- NEMA coupling
- Single-phase or three-phase AC motor
- Encapsulated or rewindable (TWI 6 ... / TWI 8 ...) motor

- Unit made completely of stainless steel
- Easy maintenance due to rapid installation and dismantling
- Integrated non-return valve
- Vertical and horizontal installation possible
- Standard and configurable versions available (TWI 6 ... / TWI 8 ...)
- Star-delta version
- Rewindable motors

B2, B1

Water supply

Borehole pumps
Wilo-EMU 6" series
Wilo-EMU 8" series
Wilo-EMU 10"...24" series

Series extension

Water and potable water supply from boreholes and cisterns; process water supply; municipal and industrial water supply; sprinkling and irrigation; pressure boosting; lowering the water level; utilisation of geothermal energy and off-shore applications; supplying fountains, snow cannons and water organs

Borehole pump in sectional design

2,500 m³/h
580 m

- Mains connection: 3~400 V, 50 Hz
- Submerged operating mode: S1
- Max. fluid temperature:
  - NU 5 ... / NU 6 ... / NU 7 ... / NU 811 = 30 °C
  - NU 801 / NU 9 ... / NU 12 ... / U ... = 20 °C
- Min. flow at motor:
  - NU 5 ... / NU 7 ... = 0.16 m/s
  - NU 6 ... / NU 811 = 0.5 m/s
  - NU 801 / NU 9 ... / NU 12 ... / U ... = 0.1 m/s
- Max. sand content: 35 g/m³
- Up to 10 starts per hour
- Max. submersion depth:
  - NU 611 = 100 m
  - Other motors = 300 m
- Protection class: IP 68
- Control range for frequency converter:
  - NU 5 ... / NU 6 ... / NU 7 ... / NU 811 / U 15 ... / U 21 ... = 30–50 Hz
  - NU 801 / NU 911 / NU 12 ... (2-pole) = 25–50 Hz
  - NU 801 / NU 911 / NU 12 ... (4-pole) = 30–50 Hz
  - U 17 = 25–50 Hz

- Submersible, multistage borehole pump
- Radial or semi-axial impellers
- Hydraulics and motor freely configurable according to power requirements
- Integrated non-return valve (depending on type)
- NEMA coupling or standardised connection (from 10" motors on)
- Three-phase motor for direct or star-delta start
- Encapsulated motor (NU 4 ..., NU 5 ..., NU 7 ...)
- Other motor types rewindable as standard

- Water pumping with large volume flows
- Corrosion-resistant impellers
- Wear-resistant GI bushing (depending on type)
- Special materials possible
- Encapsulated and rewindable motors
- Individual adjustment to duty point due to impeller correction
- 4-pole motors for long service life and high degree of efficiency
- Motors with CoolAct technology for high power density (from 10" motors on)
- High voltage up to 6000 V possible
- Vertical and horizontal installation possible

B2 Borehole pumps

Water supply

Borehole pumps
Wilo-EMU polder pumps

Potable and process water from tanks or shallow bodies of water; municipal and industrial water supply; sprinkling and irrigation; lowering the water level; utilisation of geothermal energy and off-shore applications;

Polder pump

1,400 m³/h
170 m

- Mains connection: 3~400 V, 50 Hz
- Max. fluid temperature: 20 °C
- Min. flow at outside shroud: not necessary
- Max. sand content: 35 g/m³
- Up to 10 starts per hour
- Max. submersion depth: 300 m
- Protection class: IP 68
- Control range for frequency converter:
  - 2-pole: 25–50 Hz
  - 4-pole: 30–50 Hz

- Submersible, multistage borehole pump
- Semi-axial impellers
- Hydraulics and motor freely configurable according to power requirements
- Three-phase motor for direct or star-delta start
- Motors rewindable as standard

- Deep water lowering
- Self-cooling design
- Easy installation on the ascending pipe
- Wear-resistant design due to different material versions
- Compact design
- Rewindable motors

B2 Borehole pumps

Water supply

Sprinkler pumps with VdS approval
Wilo-EMU sprinkler pumps

Series extension

For supplying sprinkler systems

Sprinkler pump in sectional design

450 m³/h
110 m

- Mains connection: 3~400 V/50 Hz
- Submerged operating mode: S1
- Max. fluid temperature: 25 °C, higher temperatures on request
- Min. flow at motor: 0.1 m/s
- Max. sand content: 35 g/m³
- Up to 10 starts per hour
- Max. submersion depth:
  - NU 611 = 100 m
  - Other motors = 300 m
- Protection class: IP 68

- Submersible, multistage borehole pump
- Radial or semi-axial impellers
- NEMA coupling (depending on type)
- Three-phase motor for direct or star-delta start
- Rewindable motors

- VdS certification
- Certified non-return valve available as accessory
- Version in bronze material
- Pressure shroud installation possible

B5 Sprinkler pumps with VdS approval

Water supply

Product sector	Horizontal, multistage centrifugal pumps	Vertical, multistage centrifugal pumps	Horizontal, multistage centrifugal pumps
Series	Wilo-Economy MHIL	Wilo-Multivert MVIL	Wilo-Economy MHI
			
Application	• Water supply and pressure boosting • Commerce and industry • Washing and spraying systems • Rainwater utilisation • Cooling and cold water circulation systems	• Water supply and pressure boosting • Commerce and industry • Washing and spraying systems • Rainwater utilisation • Cooling and cold water circulation systems	• Water supply and pressure boosting • Commerce and industry • Cooling water circulation systems • Washing and sprinkling systems
Design	Non-self-priming multistage pump	Non-self-priming multistage pump	Non-self-priming multistage pump
Volume flow, Q max.	13 m³/h	13 m³/h	25 m³/h
Delivery head, H max.	68 m	135 m	68 m
Technical data	• Fluid temperature -15 to +90 °C • Operating pressure max. 10 bar • Inlet pressure max. 6 bar • Protection class IP 54	• Fluid temperature -15 to +90 °C • Operating pressure max. 10 bar • Inlet pressure max. 6 bar • Protection class IP 54	• Fluid temperature -15 to +110 °C • Operating pressure max. 10 bar • Inlet pressure max. 6 bar • Protection class IP 54
Equipment/function	• Pump in block design • Threaded connection • Single-phase or three-phase AC motor • Single-phase AC motor with integrated thermal motor protection	• Pump in in-line design • Oval flange • Single-phase or three-phase AC motor • Single-phase AC motor with integrated thermal motor protection	• Stainless steel pump in block design • Threaded connection • Single-phase or three-phase AC motor • Single-phase AC motor with integrated thermal motor protection
Special features	• Impellers and stage chambers made of stainless steel 1.4301 (AISI 304) • Pump housing made of grey cast iron EN-GJL-250, cataphoretic coating • All relevant components have KTW and WRAS approval	• Impellers and stage chambers made of stainless steel 1.4301 (AISI 304) • Pump housing made of grey cast iron EN-GJL-250, cataphoretic coating • All relevant components have KTW and WRAS approval	• All parts that come in contact with the fluid are made of stainless steel 1.4301 (AISI 304) or 1.4404 (AISI 316) • Compact design • All relevant components have KTW and WRAS approval
Catalogue	**B3** High-pressure multistage centrifugal pumps Water supply	**B3** High-pressure multistage centrifugal pumps Water supply	**B3** High-pressure multistage centrifugal pumps Water supply

Vertical, multistage centrifugal pumps
Wilo-Multivert MVIS

- Water supply and pressure boosting

Non-self-priming multistage pump with glandless pump motor

14 m³/h
110 m
- Fluid temperature -15 to +50 °C
- Operating pressure 16 bar
- Inlet pressure 6 bar
- Protection class IP 54

- Stainless steel pump in in-line design
- Three-phase AC motor in glandless pump design

- Low-noise (up to 20 dB(A) quieter than conventional pumps)
- All parts that come in contact with the fluid are corrosion-resistant
- Glandless pump technology
- All relevant components have KTW and WRAS approval

B3 High-pressure multistage centrifugal pumps

Water supply

Horizontal, multistage centrifugal pumps
Wilo-Economy MHIE

- Water supply and pressure boosting
- Industrial circulation systems
- Process engineering
- Cooling water circulation systems
- Washing and sprinkling systems

Non-self-priming multistage pump with integrated frequency converter

34 m³/h
95 m
- Fluid temperature -15 to +110 °C
- Operating pressure max. 10 bar
- Inlet pressure max. 6 bar
- Protection class IP 54

- Stainless steel in block design
- Threaded connection
- Integrated frequency converter
- Single-phase or three-phase AC motor
- Three-phase version with red-button technology and LCD display for state indication
- Integrated thermal motor protection

- Easy commissioning
- All parts that come in contact with the fluid are made of stainless steel 1.4301 (AISI 304) or 1.4404 (AISI 316L)
- Compact design
- Integrated frequency converter
- Full motor protection
- All relevant components have KTW and WRAS approval

B3 High-pressure multistage centrifugal pumps

Water supply

Vertical, multistage centrifugal pumps
Wilo-Multivert MVISE

- Water supply and pressure boosting

Non-self-priming multistage pump with glandless pump motor and integrated frequency converter

15 m³/h
110 m
- Fluid temperature -15 to +50 °C
- Operating pressure 16 bar
- Inlet pressure 6 bar
- Protection class IP 44
- Emitted interference in accordance with EN 50081 T1 (EN 50081 T1 optional)
- Interference resistance in accordance with EN 50082 T2

- Stainless steel pump in in-line design
- Glandless pump
- Self-venting
- Hydraulics in 1.4301
- Oval flange, round flange
- Three-phase AC motor with integrated frequency converter, with red-button technology and LCD display for state indication
- Integrated thermal motor protection
- Protection against low water level

- Easy commissioning
- Glandless pump technology
- Low-noise (up to 20 dB(A) quieter than conventional pumps)
- Integrated frequency converter
- All components that come in contact with the fluid are made of stainless steel 1.4301 (AISI 304)
- All relevant components have KTW and WRAS approval

B3 High-pressure multistage centrifugal pumps

Water supply

Vertical, multistage centrifugal pumps
Wilo-Helix-V

New!

- Water supply and pressure boosting
- Industrial circulation systems
- Process water
- Cooling water circulation systems
- Fire extinguishing systems
- Washing systems
- Irrigation

Non-self-priming multistage pump

35 m³/h
232 m
- Fluid temperature -20 to +120 °C
- Operating pressure max. 16/25 bar
- Inlet pressure max. 10 bar
- Protection class IP 55
- PN 16 and PN 25 with loose round flanges

- Impellers and stage chambers made of stainless steel 1.4307, pump housing made of grey cast iron EN-GJL-250, cataphoretic coating
- Version PN 16 and PN 25 with round loose flanges in accordance with ISO 2531 and ISO 7005
- EFF1 IEC standard three-phase AC motor

Helix V22
- Efficiency-optimised, laser-welded 2D/3D high-efficiency hydraulics
- Easy pump replacement without pipe modification. Due to the modular pump housing, Helix pumps can be installed in existing pipes.
- User-friendly mechanical seal with cartridge, equipped with a standard seal for easy maintenance
- Potable water approval according to ACS/KTW/WRAS for all parts that come in contact with the fluid

B3 High-pressure multistage centrifugal pumps

Water supply

Water supply

Product sector	Vertical, multistage centrifugal pumps	Vertical, multistage centrifugal pumps	Vertical, multistage centrifugal pumps
Series	Wilo-Helix-VE	Wilo-Multivert MVI	Wilo-Multivert-MVIE
	New!		
			
Application	• Water supply and pressure boosting • Industrial circulation systems • Process water • Cooling water circulation systems • Washing systems • Irrigation	• Water supply and pressure boosting • Fire extinguishing systems • Boiler feed • Industrial circulation systems • Process engineering • Cooling water circulation systems • Washing and sprinkling systems	• Water supply and pressure boosting • Industrial circulation systems • Process engineering • Cooling water circulation systems • Washing and sprinkling systems
Design	Non-self-priming, multistage pump	Non-self-priming, multistage pump	Non-self-priming multistage pump with integrated frequency converter
Volume flow, Q max.	45 m³/h	155 m³/h	145 m³/h
Delivery head, H max.	234 m	235 m	245 m
Technical data	• Fluid temperature -20 to +120 °C • Operating pressure max. 16/25 bar • Inlet pressure max. 10 bar • Protection class IP 55 • PN 16 and PN 25 with loose round flanges	• Fluid temperature -15 to +120 °C • Operating pressure max. 16/25 bar • Inlet pressure max. 10 bar • Protection class IP 55	• Fluid temperature -15 to +120 °C • Operating pressure max. 16 bar/25 bar • Inlet pressure max. 6 bar • Protection class IP 54 or IP 55
Equipment/function	• Impellers and stage chambers made of stainless steel 1.4307, pump housing made of grey cast iron EN-GJL-250, cataphoretic coating • Version PN16 and PN25 with round loose flanges in accordance with ISO 2531 and ISO 7005 • EFF1 IEC standard three-phase AC motor • Integrated frequency converter	• Stainless steel pump in in-line design • Version • PN 16 with oval flanges • PN 16/25 with DIN round flanges, Victaulic connections depending on pump type • IEC standard motor in single-phase or three-phase version. Single-phase AC motor with integrated thermal motor protection	• Stainless steel pump in in-line design • PN 16 with oval flanges • PN 16/25 with DIN round flanges, Victaulic connections depending on pump type • Single-phase or three-phase current standard motor • Integrated frequency converter • Integrated thermal motor protection • Protection against low water level
Special features	Helix VE22 • Efficiency-optimised, laser-welded 2D/3D high-efficiency hydraulics • Easy pump replacement without pipe modification. Due to the modular pump housing, Helix pumps can be installed in existing pipes. • User-friendly mechanical seal with cartridge, equipped with a standard seal for easy maintenance • Potable water approval according to ACS/KTW/WRAS for all parts that come in contact with the fluid	• MVI 100 ... 1600-6 All parts that come in contact with the fluid made of stainless steel 1.4301 (AISI 304) or 14404 (AISI 316L) • MVI 1600 ... MVI 9500 depending on pump type in stainless steel 1.4404 (AISI 316L) or 1.4301 (AISI 304) with pump housing made of grey cast iron • EN-GJL-250, cataphoretic coating • All relevant components have KTW and WRAS approval	• Easy commissioning • Full motor protection • Large control range • MVI 100 ... 1600-6 All parts that come in contact with the fluid made of stainless steel 1.4301 (AISI 304) or 14404 (AISI 316L) • MVI 1600 ... MVI 9500 depending on pump type in stainless steel 1.4404 (AISI 316L) or 1.4301 (AISI 304) with pump housing made of grey cast iron EN-GJL-250, cataphoretic coating • All relevant components have KTW and WRAS approval
Catalogue	**B3** High-pressure multistage centrifugal pumps Water supply	**B3** High-pressure multistage centrifugal pumps Water supply	**B3** High-pressure multistage centrifugal pumps Water supply

Product sector	Glanded energy-saving pumps in in-line design	Glanded pumps in in-line design	Glanded monobloc pumps
Series	Wilo-CronoLine-IL-E Wilo-CronoLine-IL-E...BF Wilo-CronoTwin-DL-E Wilo-CronoTwin-DL-E...BF **Series extension:** CronoTwin-DL-E...BF	Wilo-CronoLine-IL Wilo-CronoTwin-DL	Wilo-CronoBloc BL
			
Application	For pumping cold and hot water (in accordance with VDI 2035) without abrasive substances in heating, cold water and cooling water systems	For pumping cold and hot water (in accordance with VDI 2035) without abrasive substances in heating, cold water and cooling water systems	For pumping cold and hot water (in accordance with VDI 2035) without abrasive substances in heating, cold water and cooling water systems
Design	Electronically controlled glanded pump in in-line design with flange connection and automatic power adjustment	Glanded pump in in-line design with flange connection	Glanded pump in monobloc design with flange connection
Volume flow, Q max.	650 m³/h	1,140 m³/h	360 m³/h
Delivery head, H max.	70 m	85 m	105 m
Technical data	• Perm. temperature range -20 °C to +140 °C • Mains connection 3~400 V, 50 Hz • Protection class IP 54 • Nominal width DN 40 to DN 80 • Max. operating pressure 16 bar	• Perm. temperature range -20 °C to +140 °C • Mains connection 3~400 V, 50 Hz • Protection class IP 55 • Nominal width DN 32 to DN 250 • Max. operating pressure 16 bar (PN 25 on request)	• Perm. temperature range -20 °C to +140 °C • Mains connection 3~400 V, 50 Hz • Protection class IP 55 • Nominal width DN 32 to DN 150 • Max. operating pressure 16 bar (PN 25 on request)
Equipment/function	Single-stage, low-pressure centrifugal pump in in-line design with • Mechanical seal • Flange connection • Lantern • Coupling • Motor with integrated electronic speed control • DL-E with switchover valve Materials: • Pump housing and lantern: EN-GJL-250 • Impeller: Standard version: EN-GJL-200 Special version: G-CuSn 10 • Shaft: 1.4122 • Mechanical seal: AQ1EGG Other mechanical seals: on request	Single-stage, low-pressure centrifugal pump in in-line design with • Mechanical seal • Flange connection with pressure measuring connection R 1/8 • Lantern • Coupling • IEC standard motor • DL with switchover valve Materials: • Pump housing and lantern: Standard version: EN-GJL-250 Optional: Spheroidal cast iron EN-GJS-400-18-LT • Impeller: Standard: EN-GJL-200 Special version: Red brass G-CuSn 10 • Shaft: 1.4122 • Mechanical seal: AQ1EGG Other mechanical seals: on request	Single-stage, low-pressure centrifugal pump in monobloc design, with axial suction port and radially arranged pressure port with • Mechanical seal • Flange connection with pressure measuring connection R 1/8 • Lantern • Coupling • IEC standard motor
Special features	For IL-E and DL-E • Control modes Δp-c und Δp-v • Manual control mode (0–10 V/0–20 mA) • Red-button technology for easy operation • Infrared interface (IR monitoring) • Optional interfaces via retrofit IF-Modules for BUS communication, LON or PLR For IL-E ... BF, DL-E ... BF • Control mode Δp-c • Manual control mode (0–10 V/0–20 mA)	• Long motor life due to standard condensate drainage holes in the motor housings • Corrosion protection due to cataphoretic coating • Easy to install due to feet on pump housing with threaded bores	• Meets user requirements due to performance and main dimensions in accordance with EN 733 • Long motor life due to standard condensate drainage holes in the motor housing • Corrosion protection due to cataphoretic coating
Catalogue	**A2** Glanded pumps Heating, air-conditioning, cooling	**A2** Glanded pumps Heating, air-conditioning, cooling	**A3** Monobloc and norm pumps Heating, air-conditioning, cooling, water supply

Norm pumps
Wilo-CronoNorm NL
Wilo-VeroNorm-NPG

For pumping heating water in accordance with VDI 2035, water/glycol mixtures, cooling/cold water and process water. For applications in municipal water supply, irrigation, building services, industry, power stations etc.

Single-stage low-pressure centrifugal pump mounted on a baseplate

3,000 m³/h
140 m
- Perm. temperature range -20 °C to +140 °C
- Mains connection 3~400 V, 50 Hz
- Protection class IP 55
- Nominal width on suction side DN 50 to DN 500
- Nominal width on pressure side DN 32 to DN 500
- Max. operating pressure: depending on type and application up to 16 bar

Single-stage low-pressure centrifugal pump in block design with coupling, coupling protection, motor and baseplate
- Mechanical shaft seal or stuffing box
- Wilo factory motor or ATB motor

Materials:
- Pump housing: EN-GJL-250
- Impeller: EN-GJL-250
- Shaft: 1.4028

- Other materials and versions on request

A3 Monobloc and norm pumps

Heating, air-conditioning, cooling, water supply

Pumps with axially split housing
Wilo-SCP

For pumping heating water in accordance with VDI 2035, water/glycol mixtures, cooling/cold water and process water. For applications in municipal water supply, irrigation, building services, industry, power stations etc.

Low-pressure centrifugal pump with axially split housing mounted on a baseplate

3,400 m³/h
245 m
- Perm. temperature range -20 °C to +120 °C
- Mains connection 3~400 V, 50 Hz
- Protection class IP 55
- Nominal width on suction side DN 65 to DN 500
- Nominal width on pressure side DN 50 to DN 400
- Max. operating pressure: depending on type 16 or 25 bar

1- or 2-stage, low-pressure centrifugal pump in block design
- Delivered as complete unit (pump with coupling, coupling protection, motor and baseplate) or without motor or only pump hydraulics
- Shaft seal with mechanical seal or stuffing box
- 4-pole and 6-pole motors

Materials:
- Pump housing: EN-GJL-250
- Impeller: GCuSn5 ZnPb
- Shaft: X12Cr13

- Higher capacities up to 17,000 m³/h on request
- Special motors and other materials on request

A3 Monobloc and norm pumps

Heating, air-conditioning, cooling, water supply

Water supply

Product sector	Single-pump pressure boosting system with system separation	Single-pump pressure boosting systems	Single-pump pressure boosting systems with speed-controlled pump
Series	Wilo-Economy CO/T-1 MVI ... /ER	Wilo-Economy CO-1 MVIS ... /ER Wilo-Economy CO-1 MVI ... /ER Wilo-Economy CO-1 Helix-V ... /CE	Wilo-Comfort-N-Vario COR-1 MVISE ... Wilo-Comfort-Vario COR-1 MVIE ... Wilo-Comfort-Vario COR-1 Helix-VE ...
		Series extension: CO-1 Helix-V .../ CE	Series extension: COR-1 MVIE 70../95.. COR-1 Helix-VE
			
Application	For fully automatic water supply in inlet mode from the public water supply network • For pumping potable water and process water, cooling water, water for fire-fighting or other service water	For fully automatic water supply in inlet mode from the public water supply network or from a break tank • For pumping potable water, process water, cooling water, water for fire-fighting or other service water	For fully automatic water supply in inlet mode from the public water supply network or from a break tank • For pumping potable water, process water, cooling water, water for fire-fighting or other service water
Design	Water supply systems with system separation and a non-self-priming, high-pressure multistage centrifugal pump	Water-supply units with a non-self-priming, high-pressure multistage centrifugal pump	Water-supply units with a non-self-priming, high-pressure multistage centrifugal pump with integrated speed control
Volume flow, Q max.	8 m³/h	135 m³/h	97 m³/h
Delivery head, H max.	110 m	160 m	150 m
Technical data	• Mains connection 3~230 V / 400 V, 50 Hz (other versions on request) • Fluid temperature max. 50 °C • Operating pressure 16 bar • Inlet pressure 6 bar • Protection class IP 41	• Mains connection 3~230 V / 400 V, 50 Hz (other versions on request) • Fluid temperature max. 50 °C • Operating pressure 16 bar • Inlet pressure 6 bar • Switching pressure stages 6 / 10 / 16 bar • Protection class IP 41	• Mains connection 3~400 V, 50 Hz • Fluid temperature max. 50 °C • Operating pressure 16 bar • Inlet pressure 6 bar • Protection class IP 44
Equipment/function	• 1 pump of MVI series • PE preliminary tank, atmospherically ventilated (120 l) • Components that come in contact with the fluid are corrosion-resistant • Pipework made of stainless steel 1.4571 • Check valve, on pressure side • Non-return valve, on pressure side • Preliminary tank including float valve and float switch • Diaphragm pressure vessel 8 l, PN 16, on pressure side • Low-water cut-out switchgear	• 1 pump of the MVIS, MVI or Helix-V series • Components that come in contact with the fluid are corrosion-resistant • Base frame made of stainless steel 1.4301 with height-adjustable vibration damper for insulation against structure-borne noise • Pipework made of stainless steel 1.4571 • Check valve, on pressure side • Non-return valve, on pressure side • Diaphragm pressure vessel 8 l, PN 16, on pressure side	• 1 pump of the MVIE, Helix-VE or MVISE series with integrated frequency converter • All parts that come in contact with the fluid are corrosion-resistant • Pipework made of stainless steel 1.4571 • Check valve, on pressure side • Non-return valve, on pressure side • Diaphragm pressure vessel 8 l, PN 16
Special features	• Compact system, ready for connection, for all applications that require system separation • Operationally reliable due to the combination of the MVI pump series with the ER-1 control unit	For systems with MVIS pump • Virtually noiseless system due to a gland-less, high-pressure multistage centrifugal pump • Up to 20 dB(A) quieter than conventional systems with comparable hydraulic output • Operationally reliable due to the combination with the ER-1 control device For systems with Helix-V pump • EFF1 standard motors • Efficiency-optimised, laser-welded 2D/3D hydraulics • User-friendly mechanical seal with cartridge, equipped with a standard seal for easy maintenance • Operationally reliable due to the combination CE control device	• For systems with MVISE pump • Virtually noiseless system due to the use of glandless, stainless steel, high-pressure, multistage centrifugal pumps with integrated frequency converter • Up to 20 dB(A) quieter than conventional systems with comparable hydraulic output For systems with Helix-VE pump • EFF1 standard motors • Efficiency-optimised, laser-welded 2D/3D hydraulics • User-friendly mechanical seal with cartridge, equipped with a standard seal for easy maintenance
Catalogue	**B4** Pressure boosting systems Water supply	**B4** Pressure boosting systems Water supply	**B4** Pressure boosting systems Water supply

Multi-pump pressure boosting systems
Wilo-Economy CO 2-4 MHI ... /ER
Wilo-Comfort-N-CO 2-6 MVIS ... /CC
Wilo-Comfort-CO 2-6 MVI ... /CC
Wilo-Comfort-CO 2-6 Helix-V ... /CC

Series extension: CO 2-6 Helix-V ... /CC

For fully automatic water supply and pressure boosting in residential, commercial and public buildings, hotels, hospitals, department stores and for industrial systems
- For pumping potable water and process water, cooling water, water for fire-fighting or other service water

Pressure boosting system with 2 to 6 non-self-priming, stainless steel, high-pressure, multistage centrifugal pumps switched in parallel

800 m³/h
160 m
- Mains connection 3~230 V / 400 V, 50 Hz
- Fluid temperature max. 50 °C
- Operating pressure 10 bar or 16 bar
- Inlet pressure 6 bar
- Protection class IP 54

- 2 to 4 or 2 to 6 pumps per system
- Components that come in contact with the fluid are corrosion-resistant
- Galvanized base frame with height-adjustable vibration damper for insulation against structure-borne noise
- Pipework made of stainless steel 1.4571
- Gear-operated shut-off ball cock/annular shut-off valve on every pump, on suction and pressure sides
- Non-return valve, on pressure side
- Diaphragm pressure vessel 8 l, PN 16, on pressure side
- Pressure sensor, on discharge side

- Compact system in accordance with the requirements of DIN 1988
- 2 to 4 or 2 to 6 high-pressure, multistage centrifugal pumps switched in parallel
- Easily adjustable and operationally reliable due to integrated control devices
- Series with Helix-V with EFF1 motors

For systems with MVIS pumps
- Virtually noiseless system due to glandless, high-pressure, multistage centrifugal pump
- Up to 20 dB(A) quieter than conventional systems with comparable hydraulic output

Multi-pump pressure boosting systems with speed control
Wilo-Comfort-N-COR 2-6 MVIS ... /CC
Wilo-Comfort-COR 2-6 MVI ... /CC
Wilo-Comfort-COR2-6 Helix-V ... /CC

Series extension: COR 2-6 Helix-V ... /CC

For fully automatic water supply and pressure boosting in residential, commercial and public buildings, hotels, hospitals, department stores and for industrial systems
- For pumping potable water and process water, cooling water, water for fire-fighting or other service water

Pressure boosting system with speed control and 2 to 6 non-self-priming, stainless steel, high-pressure, multistage centrifugal pumps switched in parallel

800 m³/h
160 m
- Mains connection 3~230 / 400 V, 50 Hz
- Fluid temperature max. 50 °C
- Operating pressure 16 bar
- Inlet pressure 6 bar
- Protection class IP 54

- 2 to 6 pumps per system
- Continuous control operation of the base-load pump via frequency converter integrated in the CC controller
- Components that come in contact with the fluid are corrosion-resistant
- Galvanized base frame with height-adjustable vibration damper for insulation against structure-borne noise
- Pipework made of stainless steel 1.4571
- Gear-operated shut-off ball cock/annular shut-off valve on every pump, on suction and pressure sides
- Non-return valve, on pressure side
- Diaphragm pressure vessel 8 l, PN 16, on pressure side
- Pressure sensor, on discharge side

- Easy-to-use system in accordance with all requirements of DIN 1988
- 2 to 6 vertical high-pressure multistage centrifugal pumps switched in parallel
- Speed-controlled base-load pump
- Series with Helix-V with EFF1 motors

For systems with MVIS pumps
- Virtually noiseless system due to a glandless, high-pressure, multistage centrifugal pump
- Up to 20 dB(A) quieter than conventional systems with comparable hydraulic output

Multi-pump pressure boosting systems with speed controlled pumps
Wilo-Comfort-Vario-COR 2-4 MHIE ... /VR
Wilo-Comfort-N-Vario-COR 2-4 MVISE ... /VR
Wilo-Comfort-Vario-COR 2-4 MVIE ... /VR

Series extension: COR-2-4 MVIE 70../95.. COR-2-4 Helix-VE

For fully automatic water supply and pressure boosting in residential, commercial and public buildings, hotels, hospitals, department stores and for industrial systems
- For pumping potable water and process water, cooling water, water for fire-fighting or other service water

Pressure boosting system with 2 to 4 non-self-priming, stainless steel, high-pressure, multistage centrifugal pumps switched in parallel, with integrated speed control

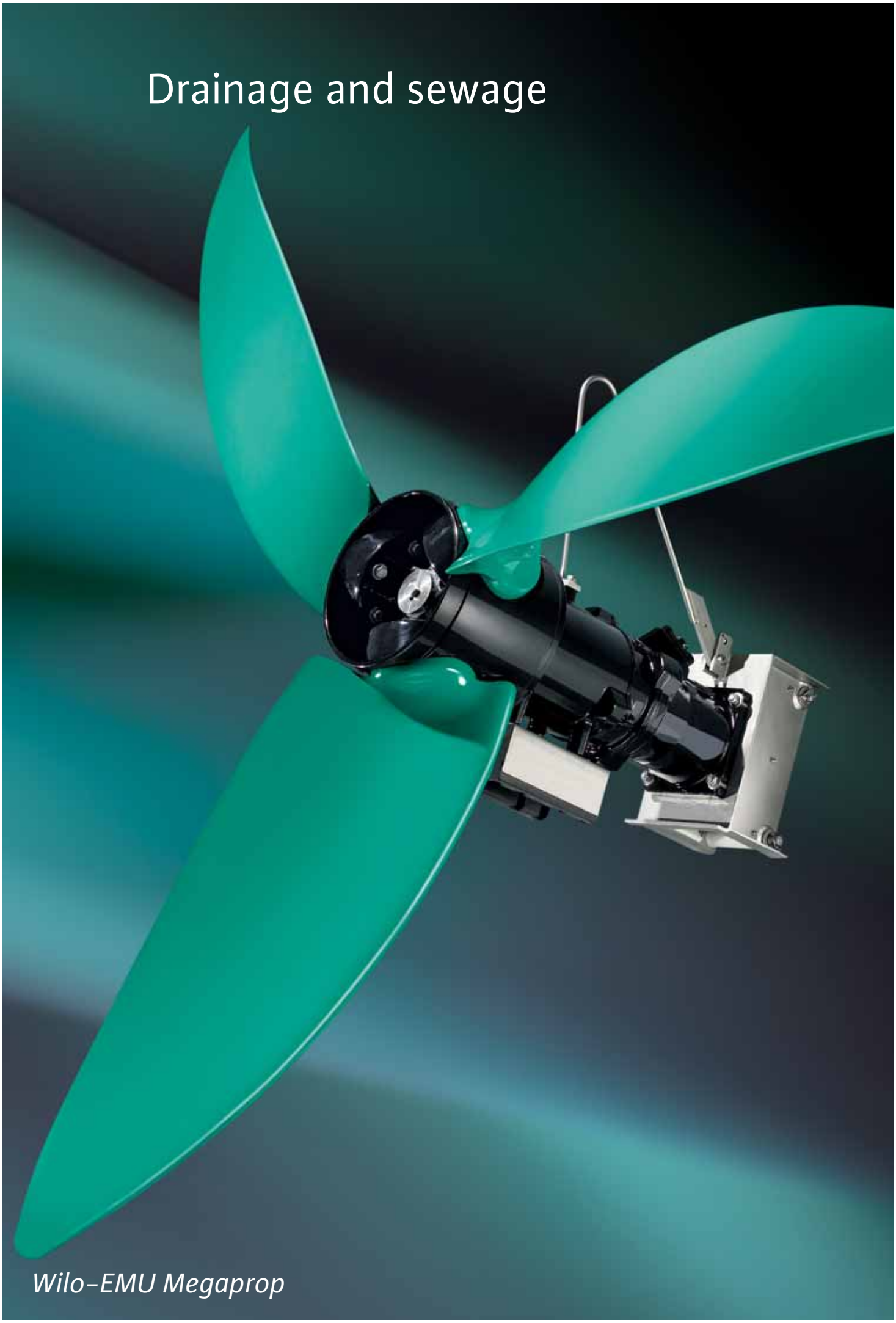
380 m³/h
150 m
- Mains connection 3~400 V, 50 / 60 Hz, depending on type also 1~230 V, 50/60 Hz
- Fluid temperature max. 70 °C
- Operating pressure 10 bar
- Inlet pressure 6 bar
- Protection class IP 54

- 2 to 4 pumps per system
- Continuous control operation due to pumps with integrated frequency converters
- Components that come in contact with the fluid are corrosion-resistant
- Galvanized base frame with height-adjustable vibration damper for insulation against structure-borne noise
- Pipework made of stainless steel 1.4571
- Gear-operated shut-off ball cock/annular shut-off valve on every pump, on suction and pressure sides
- Non-return valve, on pressure side
- Diaphragm pressure vessel 8 l, PN 16, on pressure side
- Pressure sensor, on discharge side

- Compact system with excellent value for money due high-pressure, multistage centrifugal pumps with integrated frequency converters
- Superproportionally large control range
- Integrated full motor protection via PTC
- Integrated dry-running detection with automatic cut-out in event of low water via performance characteristics of the motor control electronics
- Series with Helix-V with EFF1 motors

For systems with MVISE pumps
- Virtually noiseless system due to a glandless, high-pressure, multistage centrifugal pump
- Up to 20 dB(A) quieter than conventional systems with comparable hydraulic output

Drainage and sewage



Wilo-EMU Megaprop

Heating, air-conditioning, cooling
Circulation pumps
Glandless pumps and accessories, package heat exchanger assembly

Catalogue A1

Heating, air-conditioning, cooling
Glanded pumps
Pumps with in-line design and accessories

Catalogue A2

Heating, air-conditioning, cooling, water supply
Monobloc and norm pumps, pumps with axially split housing
Pumps and accessories

Catalogue A3

Water supply
Domestic water supply, rainwater utilisation
Pumps, systems and accessories

Catalogue B1

Water supply
Borehole pumps, 3" to 24"
Pumps and systems for building services, domestic, municipal and industrial water supply

EMU Technologie

Catalogue B2

Water supply
High-pressure multistage centrifugal pumps
Pumps and accessories

Catalogue B3

Water supply
Pressure boosting systems
Single-pump and multi-pump systems in dry well installations

Catalogue B4

Water supply
Sprinkler pumps with VdS approval
Borehole pumps and accessories

EMU Technologie

Catalogue B5

Drainage and sewage
Drainage pumps
Submersible pumps, self-priming pumps and accessories

EMU Technologie

Catalogue C1

Drainage and sewage
Sewage pumps, DN 32 to DN 600
Submersible pumps and accessories for building services, municipal and industrial applications

EMU Technologie

Catalogue C2

Drainage and sewage
Wastewater and sewage lifting units, pumps stations
Pump systems and accessories

Catalogue C3

Drainage and sewage
Submersible mixers
Mixers, re-circulation pumps, jet cleaners, grit collector pumps and accessories for municipal application in water treatment systems

Catalogue C4

Product sector	Submersible drainage pumps	Submersible drainage pumps	Submersible drainage pumps
Series	Wilo-Drain TM/TMW 32 Wilo-Drain TS/TSW 32	Wilo-Drain TS 40 Wilo-Drain TS 50 Wilo-Drain TS 65	Wilo-EMU KS
	New!		
			
Application	For pumping clear or slightly muddy water • From tanks, sumps or pits • For overflows and flooding • For draining cellar stairways and cellar areas • From domestic areas (washing machine water, soapsuds) • From small fountains, waterworks or streams	For pumping wastewater with foreign matter of max. ø 10 mm for • House/site drainage • Environmental and wastewater treatment technology • Industrial and process engineering	For drainage of excavation pits, cellar areas, pits and basins. Ideally suited for applications in fountains
Design	Basement drainage pump	Submersible drainage pumps	Submersible pump for portable and stationary applications
Volume flow, Q max.	16 m³/h	52 m³/h	340 m³/h
Delivery head, H max.	12 m	24 m	64 m
Technical data	• Mains connection 1~230 V, 50 Hz • Protection class IP 68 • Max. submersion depth TM/TMW = 3 m, TS/TSW = 10 m • Fluid temperature 3 °C to 35 °C, for short periods up to 3 min. max. 90 °C • Cable length 3 to 10 m, depending on type • Free ball passage 10 mm • Pressure port Rp 1¼, hose connection 35 mm (TM 32/...), 32 mm (R1) for TS/TSW	• Mains connection 1~230 V, 50 Hz or 3~400 V, 50 Hz • Protection class IP 68 • Submersion depth 5 to 10 m • Fluid temperature 3 °C to 35 °C • Free ball passage 10 mm • Pressure port, depending on type Rp 1½, Rp 2 or Rp 2½	• Rated speed 2,900 rpm • Operating mode S1 • Max. fluid temperature 40 °C • Protection class IP 68 • Sealed by double mechanical seal • Maintenance-free roller bearing
Equipment/function	• Ready-to-plug • Motor monitoring via temperature • Sheath current cooling • Connection cable • Hose connection • Turbulator (TMW, TSW) • Float switch (depending on type) • Non-return valve enclosed (depending on type)	• Ready-to-plug for 1~230 V and model A • Motor monitoring via temperature for 3~400-V version • Explosion protection for TS 50 and TS 65 • Connection cable 10 m • Connection cable detachable • Integrated non-return valve for TS 40 • Hose connection for TS 40	• Direction of rotation independent of mechanical seal • Heavy-duty motors (oil-filled and dry) ensure permanent operation even with warm fluid and surfaced motor • Corrosion-resistant components
Special features	• TMW, TSW with turbulator for constantly clean pump sump • No fluid-related odour formation • Easy installation • High operational safety • Easy operation	• Inox & composite • Low weight • Detachable connection cable • Detachable float switch for model A • Thermal motor monitoring for 3~, also without switchgear for TS 40	Modular material system: • Normal cast iron version • Wear protection due to ceramic coating • Pump components made of Abrasite (chilled cast iron) • With Ex protection, depending on type
Catalogue	**C1** Drainage pumps Drainage and sewage	**C1** Drainage pumps Drainage and sewage	**C1** Drainage pumps Drainage and sewage

Self-priming drainage pumps
Wilo-Drain LP
Wilo-Drain LPC

For pumping wastewater with small amounts of solid matter for
- Excavation pits and ponds
- Sprinkling/spraying of gardens and greenery
- Drainage of seepage water
- Mobile drainage

Dry-mounted and self-priming drainage pumps

72 m³/h
30 m
- Mains connection 1~230 V, 50 Hz, 3~400 V, 50 Hz
- Fluid temperature 3 °C to 35 °C
- Free ball passage, depending on type 5 to 12 mm
- Connection Rp 1½ to G3

- Portable self-priming centrifugal pump

- High operational safety
- Easy handling
- Easy operation

C1 Drainage pumps

Drainage and sewage

Submersible drainage pumps
Wilo-Drain TMT
Wilo-Drain TMC

For industrial applications, e.g. for condensate, hot water and aggressive fluids.

Submersible drainage pumps

20 m³/h
12 m
- Mains connection 3~400 V, 50 Hz
- Protection class IP 68
- Submersion depth max. 5 m
- Fluid temperature 95 °C, 65 °C non-immersed
- Cable length 5 m
- Free ball passage 10 mm
- Pressure port, depending on type Rp 1¼ or Rp 1½

- Pump housing and impeller made of grey cast iron, bronze or stainless steel, depending on version

- High temperature resistance
- Also suitable for aggressive fluids

C1 Drainage pumps

Drainage and sewage

Pedestal pumps
Wilo-Drain VC

For pumping wastewater/fluids up to 95 °C
- From pump sumps
- With condensate
- From cellars at risk of flooding

Vertical drainage pumps

17 m³/h
20 m
- Mains connection 1~230 V, 50 Hz or 3~230/400 V, 50 Hz
- Protection class IP 54
- Fluid temperature +5 °C to +95 °C
- Free ball passage 5 or 7 mm, depending on type
- Pressure port, depending on type Rp 1 or Rp 1½

- Attached float switch
- Capacitor box (VC 32, 1~)

- Long service life
- Easy commissioning
- Connection outside the fluid
- Long downtimes possible
- Integrated motor protection due to thermal relay and control electrode

C1 Drainage pumps

Drainage and sewage

Submersible sewage pumps with macerator
Wilo-Drain MTC...
Wilo-Drain MTS...

Series extension

For pumping sewage containing faeces and municipal and industrial sewage, including fibrous matter for pressure drainage, house and site drainage, sewage and water management and environmental and water treatment technology

Submersible sewage pumps with macerator

16 m³/h
55 m
- Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz
- Submerged operating mode: S1 / S3 25% (depending on type)
- Protection class: IP 68
- Insulation class: F
- Thermal winding monitoring
- Max. fluid temperature: 3–40 °C

- Heavy-duty version made of grey cast iron
- Unimpeded flow to the impeller
- Maceration of substances being conveyed
- Easy installation due to suspension unit or pump base
- Attached float switch (only model A)

MTC:
- External macerator

MTS:
- Innovative patented macerator
- Internal rotating cutter
- Spherically formed macerator
- Pulling cut (shearing cut)

- Submersible
- Oil barrier chamber
- High degree of efficiency
- Mechanical seal on pump side made of solid silicon carbide material
- External hardened macerator (MTC)
- Internal, spherically formed macerator (MTS)
- Longitudinally watertight cable
- Version with Ex protection (depending on type)

C2 Sewage pumps

Drainage and sewage

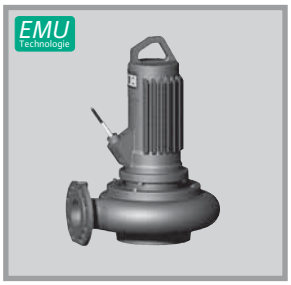
Product sector	Submersible sewage pumps	Submersible sewage pumps	Submersible sewage pumps
Series	Wilo-Drain TC 40	Wilo-Drain STS 40 Wilo-Drain STS 65	Wilo-Drain TP 50 Wilo-Drain TP 65
		Series modification	
			
Application	For pumping heavily contaminated fluids for house/site drainage, sewage (not within the scope of DIN EN 12050-2) and water management and environmental and water treatment technology	For pumping heavily contaminated fluids containing faeces (STS 65 ...), for house and site drainage, sewage (not within the scope of DIN EN 12050-2) and water management, environmental and water treatment technology and industrial and process engineering	For pumping heavily contaminated fluids, for house and site drainage, sewage (not within the scope of DIN EN 12050-1) and water management, environmental and water treatment technology and industrial and process engineering
Design	Submersible sewage pump	Submersible sewage pumps	Submersible sewage pumps
Volume flow, Q max.	18 m³/h	70 m³/h	60 m³/h
Delivery head, H max.	10 m	22 m	21 m

Technical data	• Mains connection: 1~230 V, 50 Hz
	• Submerged operating mode: S1 or S3 25%
	• Protection class: IP 68
	• Insulation class: B
	• Thermal winding monitoring
	• Max. fluid temperature: 3–40 °C
	• Free ball passage: 35 m
	• Max. submersion depth: 5 m
		• Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz
		• Submerged operating mode: S1 or S3 25%
		• Surfaced operating mode STS 65 ...: S2-8 min/S3-25 % or S1/S3-25 % in CS version
		• Protection class: IP 68
		• Insulation class:
		  • STS 40 ... : B
		  • STS 65 ... : F
		• Thermal winding monitoring
		• Max. fluid temperature: 3–40 °C
		• Free ball passage: 40 or 65 mm
		• Max. submersion depth: 5–10 m
			• Mains connection: 1~230 V, 50 Hz or 3~400 V, 50 Hz
			• Submerged operating mode: S1 or S3 25%
			• Protection class: IP 68
			• Insulation class: F
			• Thermal winding monitoring
			• Max. fluid temperature: 35 °C
			• Free ball passage: 44 m
			• Max. submersion depth: 10 m
			• Surfaced operating mode: S2-8 min/S3-25 %

Equipment/function	• Ready-to-plug • Including float switch • Thermal motor monitoring	• 1-phase version, ready-to-plug • A-model including float switch • Thermal motor monitoring • CS version with cooling jacket for dry well installation	• 1-phase version with capacitor box • A-model including float switch and plug • Thermal motor monitoring • ATEX approval (TP 65 3~ without float)
Special features	• Submersible • Heavy-duty hydraulics housing made of grey cast iron • Easy operation due to the attached float switch • Integrated stainless steel pump base for easy installation • Free ball passage: 40 m	• Submersible • Detachable connection cable and float switch • Stainless steel dry motor • Attached float switch (A-model) enables easy operation • Integrated pump base (STS 40) for easy installation • Free ball passage: 40–65 mm • No switchgear required for thermal fuse protection • Integrated thermal motor protection (1~/3~) and phase failure protection (3~) for STS 40 ... • Longitudinally watertight cable version (STS 65F ...) • ATEX approval (STS 65F ...)	• Submersible • Detachable connection cable • Stainless steel dry motor • ATEX approval (TP 65 3~ without float) • Attached float switch (A-model) enables easy operation • Low weight • Wide range of pump curves • Motor housing optional in 1.4435
Catalogue	**C2** Sewage pumps Drainage and sewage	**C2** Sewage pumps Drainage and sewage	**C2** Sewage pumps Drainage and sewage

Submersible sewage pumps
Wilo-EMU FA 05 ... to FA 15 ...

Series extension



For pumping sewage with solid constituents in water treatment systems and pumping stations; local drainage, water control and process water extraction; applications in construction and industry

Submersible sewage pumps

380 m³/h
42 m

- Mains connection: 3~400 V, 50 Hz
- Submerged operating mode: S1
- Surfaced operating mode: S2-15 or S2-30 (depending on type)
- Thermal motor monitoring
- Protection class: IP 68
- Insulation class: F
- Max. fluid temperature: 40 °C
- Free ball passage of 35 to 100 mm
- Permanently lubricated anti-friction bearing
- Max. submersion depth: 12.5 m

- Stationary dry well installation possible in short-term operation S2 (depending on type)
- Heavy-duty version made of grey cast iron
- Easy installation due to suspension unit or pump base

- Operation in stationary and portable dry well installation
- Submersible
- Heavy-duty version made of grey cast iron
- Easy installation due to suspension unit or pump base
- Longitudinally watertight cable lead-in
- ATEX approval

C2 Sewage pumps

Drainage and sewage

Submersible sewage pumps
Wilo-EMU FA 05 ... to FA 15 ...
Wilo-EMU FA 20 ... to FA 25 ...
Wilo-EMU FA 30 ... to FA 60 ...

For pumping sewage with solid constituents in water treatment systems and pumping stations; local drainage, water control and process water extraction; applications in construction and industry

Submersible sewage pump with dry motors or self-cooling motors

8,000 m³/h
100 m

- Mains connection: 3~400 V, 50 Hz
- Submerged operating mode: S1
- Surfaced operating mode with self-cooling motor: S1
- Protection class: IP 68
- Max. fluid temperature: 40 °C, higher temperatures on request
- Sealing with rotary shaft seal and mechanical seal, two mechanical seals or one block seal cartridge, depending on motor
- Free ball passage of 35 to 170 mm
- Permanently lubricated anti-friction bearing
- Max. submersion depth: 12.5 m

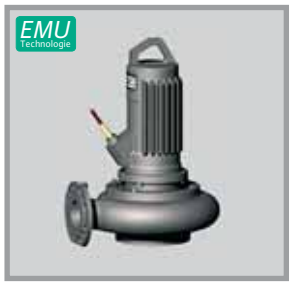
- Heavy-duty version made of grey cast iron
- Self-cooling motors with 1 or 2-chamber system
- Easy installation due to suspension unit or pump base

- Operation in stationary and portable wet well and dry well installation
- Submersible
- Easy installation due to suspension unit or pump base
- Special materials and coatings against abrasion and corrosion
- Longitudinally watertight cable lead-in (depending on motor)
- Adjustment of duty point by trimming the impeller

C2 Sewage pumps

Drainage and sewage

Submersible sewage pumps
Wilo-EMU FA...RF



In water treatment applications or industrial applications

Submersible sewage pumps

70 m³/h
30 m

- Mains connection: 3~400 V, 50 Hz
- Submerged operating mode: S1
- Protection class: IP 68
- Max. fluid temperature: 40 °C, higher temperatures on request
- Sealing with two mechanical seals or one block seal cartridge, depending on motor
- Free ball passage of 35 to 45 mm
- Permanently lubricated anti-friction bearing
- Max. immersion depth: 12.5 m

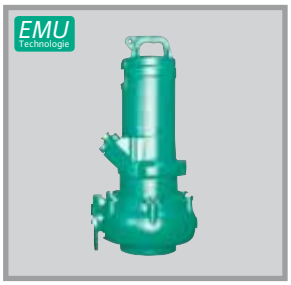
- Heavy-duty version made of cast stainless steel (1.4581)
- Easy installation due to suspension unit or pump base

- Operation in stationary and portable dry well installation
- Submersible
- Version made exclusively of 1.4581 cast stainless steel
- Easy installation due to suspension unit or pump base
- Longitudinally watertight cable lead-in
- Adjustment of duty point by trimming the impeller

C2 Sewage pumps

Drainage and sewage

Submersible sewage pumps
Wilo-EMU FA...WR



In grit chambers and for pumping sludge

Submersible sewage pump with mechanical stirring apparatus

400 m³/h
33 m

- Mains connection: 3~400 V, 50 Hz
- Submerged operating mode: S1
- Surfaced operating mode with self-cooling motor: S1
- Protection class: IP 68
- Max. fluid temperature: 40 °C, higher temperatures on request
- Sealing with rotary shaft seal and mechanical seal, two mechanical seals or one block seal cartridge, depending on motor
- Free ball passage of 23 to 58 mm
- Permanently lubricated anti-friction bearing
- Max. submersion depth: 12.5 m

- Heavy-duty version made of grey cast iron
- Self-cooling motors with 1 or 2-chamber system
- Easy installation due to suspension unit or pump base
- Mechanical stirring apparatus attached directly to the impeller
- Mixer head made of Abrasite (chilled cast iron)

- Operation in stationary and portable dry well installation
- Submersible
- Avoidance of deposits in the suction area of the pump
- Easy installation due to suspension unit or pump base
- Coatings against abrasion and corrosion
- Longitudinally watertight cable lead-in (depending on motor)
- Adjustment of duty point by trimming the impeller

C2 Sewage pumps

Drainage and sewage

Product sector	Submersible sewage pumps	Submersible sewage pumps	Condensate lifting units
Series	Wilo-EMU KPR ...	Wilo-Drain TP 80 Wilo-Drain TP 100 Series modification	Wilo-DrainLift Con
			
Application	For pumping cooling or rainwater, cleaned sewage and for irrigation and pumping sludge	For pumping heavily contaminated fluids, for environmental and water treatment technology and industrial and process engineering	For pumping condensate out of • Heat generators with condensing boiler technology • Air conditioning and cooling systems (such as refrigerators, refrigerated display cases and evaporators)
Design	Axial submersible pump with dry motor for use in pipe sumps	Submersible sewage pump for industrial applications	Condensate lifting units
Volume flow, Q max.	10,000 m³/h	180 m³/h	0.37 m³/h
Delivery head, H max.	7.5 m	20 m	5.4 m
Technical data	• Mains connection: 3~400 V, 50 Hz • Submerged operating mode: S1 • Protection class: IP 68 • Max. fluid temperature: 40 °C, higher temperatures on request • Sealing with two mechanical seals or one block seal cartridge, depending on motor • Free ball passage of 85 to 130 mm • Short common pump/motor shaft • Permanently lubricated anti-friction bearing • Max. immersion depth: 12.5 m	• Mains connection: 3~400 V, 50 Hz • Submerged operating mode: S1 or S3 25% • Surfaced operating mode: S1 or S3 25% • Protection class: IP 68 • Insulation class: F • Thermal winding monitoring • Sealing chamber control • Max. fluid temperature: 40 °C • Free ball passage: 80 or 100 mm • Max. submersion depth: 20 m	• Mains connection 1~230 V, 50 Hz • Operating mode S3 • Fluid temperature max. 80 °C • Protection class IP 20 • Pressure port 12 mm • Inlet connection 19/24 mm • Gross tank volume 1.5 l
Equipment/function	• Heavy-duty version made of grey cast iron	• Thermal motor monitoring • Sealing chamber monitoring • ATEX approval • Sheath current cooling	• Ready-to-plug system • Level control with float switch • Alarm signal via potential-free contact (NC contact/NO contact) • Integrated non-return valve • Fixation material • 5 m pressure hose
Special features	• Submersible • Special materials and coatings against abrasion and corrosion • Longitudinally watertight cable lead-in • Angle of propeller blades adjustable by hand	• Stainless steel & composite • ATEX approval as standard • Low weight • Detachable connection cable • Standard-equipped with cooling jacket • Corrosion-resistant (e.g. swimming pool water, salt water, etc.) • HD version with Viton seals or special mechanical seals • Mobile trolley version with float switch and CEE plug	• Low-noise operation (≤ 43 dB[A]) • 2 inlet openings • Standard alarm contact (NC/NO contact) • Easy to install • Motor unit reversible by 180° • Variable inlets/drains • Suitable for condensates with a pH value ≥2.4
Catalogue	**C2** Sewage pumps Drainage and sewage	**C2** Sewage pumps Drainage and sewage	**C3** Lifting units Drainage and sewage

Wastewater lifting units
Wilo-DrainLift TMP

Series extension!

For automatic drainage of showers, washbasins, washing machines/dishwashers or for pumping wastewater and drainage water that is free of faeces, fibres, grease and oil and non-aggressive rainwater

Wastewater lifting units

11 m³/h
10 m

- Mains connection 1~230 V, 50 Hz depending on type:
- Fluid temperature max. 35/45 °C, for short periods (3 min.) 75/90 °C
- Ventilation connection 25/32 mm
- Protection class IP 44/67
- Gross tank volume 17/32 l
- Switching volume 2.6/15 l

- Ready-to-plug system
- Level control with pneumatic pressure transducer (TMP 32)
- Integrated non-return valve
- Fixation material
- Integrated active carbon filter (TMP 32)
- Integrated submersible pump of the TMW series (TMP 40)

- Contemporary design
- Shower drain with a height of 110 mm possible (only in conjunction with TMP 32-0,5)
- Low-noise operation
- Service-friendly due to integrated sub-mersible motor pump (TMP 40)

Wastewater lifting units for underfloor installation
Wilo-DrainLift Box

For concealed floor installation, can be used to drain

- Rooms at risk of flooding
- Garage entrances
- Cellar stairways
- Showers, washbasins, washing machines, dishwashers

Wastewater lifting units for underfloor installation

18 m³/h
10.5 m

- Mains connection 1~230 V, 50 Hz
- Operating mode S3, 25%
- Fluid temperature max. 35 °C
- Protection class IP 67
- Gross tank volume 85 l
- Switching volume: 22 l for type 40/10: 30 l

- Ready-to-plug system
- Plastic tank with ready-mounted drainage pump, control, pressure pipe and integrated non-return valve
- Mains connection cable with shock-proof plug
- Motor monitoring via temperature (TWC)
- Level control with float switch

- Easy to install due to integrated pump and non-return valve
- Large tank volume
- Easy to maintain
- Pumps with pressure pipe that can be pulled
- Stainless steel tile frame with trap

Small sewage lifting units
Wilo-DrainLift KH 32

For disposal of sewage from a single toilet (free-standing toilets) and e.g. an additional washbasin that cannot be discharged to the sewer system via the natural fall

Small sewage lifting units

4 m³/h
5.5 m

- Mains connection 1~230 V, 50 Hz
- Operating mode: Intermittent operation S3, 28%
- Fluid temperature max. 35 °C
- Free ball passage 10 mm
- Min. suction head (bottom to top of inlet) 180 mm
- Protection class IP 44
- Gross tank volume 17 l
- Switching volume 2.6 l

- Ready-to-plug system
- Level control with pneumatic pressure transducer
- Non-return valve
- Inlet seal
- Kit for pressure pipe connection
- Fixation material
- Integrated active carbon filter

- Contemporary, space-saving design
- Easy installation due to self-sealing, direct toilet connection

Small sewage lifting units for front wall installation
Wilo-DrainLift XS-F

For the sewage disposal of a single toilet (wall-mounted WC) in addition to a hand washbasin, a shower or bidet, the wastewater/sewage of which cannot be discharged to the sewer system via the natural fall

Small sewage lifting units

9.5 m³/h
5.7 m

- Mains connection 1~230 V, 50 Hz
- Operating mode: Intermittent operation S3, 30%
- Fluid temperature max. 35 °C
- Free ball passage 25 mm
- Min. suction head (bottom to middle of inlet) 220 mm
- Protection class IP 44
- Tank volume 7.9 l
- Switching volume 1.2 l

- Ready-to-plug system for front wall installation
- Level control with pneumatic pressure transducer
- Potential-free contact
- Non-return valve
- Inlet seals
- Kit for pressure pipe connection
- Fixation material
- Active carbon filter

- Quiet operation for high user comfort
- Operationally reliable due to integrated alarm
- Large scope of delivery (all sleeves, non-return valve, ventilation set with active carbon filter etc.)

C3 Lifting units
Drainage and sewage

C3 Lifting units
Drainage and sewage

C3 Lifting units
Drainage and sewage

Product sector	Compact sewage lifting units	Sewage lifting units	Sewage lifting unit
Series	with 1 integrated pump Wilo-DrainLift S	with 1 or 2 integrated pumps Wilo-DrainLift M Wilo-DrainLift L	with 2 integrated pumps Wilo-DrainLift XL
			
Application	For pumping untreated sewage that cannot be discharged to the sewer system via the natural fall	For pumping untreated sewage that cannot be discharged to the sewer system via the natural fall	For pumping untreated sewage that cannot be discharged to the sewer system via the natural fall
Design	Compact sewage lifting units with integrated pump	Sewage lifting units with 1 or 2 integrated pumps	Sewage lifting unit with 2 integrated pumps
Volume flow, Q max. **Delivery head, H max.**	27 m³/h 5 m	40 m³/h 20 m	40 m³/h 22 m
Technical data	• Mains connection 1~230 V, 50 Hz or 3~400 V, 50 Hz • Operating mode S3, 15% • Max. fluid temperature 35 °C, for short periods 60 °C • Free ball passage 40 mm • Min. suction head (bottom to top of inlet) 180 mm • Protection class (without switchgear) IP 67 • Gross tank volume 45 l • Switching volume 20 l	• Mains connection 1~230 V, 50 Hz or 3~400 V, 50 Hz • Operating mode S3, 15% • Max. fluid temperature 40 °C, for short periods 60 °C • Free ball passage of 40 or 45 mm, depending on type • Min. suction head (bottom to top of inlet) 180 mm • Protection class (without switchgear) IP 67 • Gross tank volume, depending on type, of 62 to 130 l • Switching volume 24 to 40 l, depending on type	• Mains connection 3~400 V, 50 Hz • Operating mode: S1; S3, 60% • Fluid temperature max. 40 °C, for short periods 60 °C • Free ball passage 45 mm • Min. suction head (bottom to middle of inlet) 700 mm • Protection class IP 67 • Tank volume 440 l • Switching volume 220 l
Equipment/function	• Ready-to-plug system • Stainless steel motor with double mechanical seal • Motor monitoring via temperature (TWC) • Level control with pneumatic pressure transducer • Alternating and peak-load operation (double-pump system) • Potential-free contact • Pump cable detachable • Non-return valve • Inlet seal • Keyhole saw for inlet borehole • Hose connection for ventilation • Hose connection for diaphragm hand pump • Fixation material • Sound insulation material	• Ready-to-plug system • Stainless steel motor with double mechanical seal • Motor monitoring via temperature (TWC) • Level control with float switch • Alternating and peak-load operation (double-pump system) • Mains-independent alarm • Potential-free contact • Pump cable detachable • Non-return valve • Inlet seal • Keyhole saw for inlet borehole • Hose connection for ventilation • Hose connection for diaphragm hand pump • Kit for pressure pipe connection • Fixation material • Sound insulation material • Switchgear	• Ready-to-plug system • Sheath current cooling • Motor monitoring via temperature (TWC) • Level control with float switch • Alternating and peak-load operation • Mains-independent alarm • Potential-free contact • Pump cable detachable • Non-return valve • Hose connection for ventilation • Hose connection for diaphragm hand pump • Kit for pressure pipe connection • Fixation material • Switchgear
Special features	• Freely selectable inlets • Front-wall-like installation possible • Low weight • Space-saving installation • Only 30 cm installation depth	• Freely selectable inlets • Low weight • Mains-independent alarm • Integrated non-return valve • Large tank volume • Wide range of pump curves (DrainLift L) • Optional with individual fault signal and follow-up time (DrainLift L, version C)	• Large tank volume • Low weight • Mains-independent alarm • Integrated non-return valve • Wide performance range • Suitable for permanent operation (due to integrated sheath current cooling)
Catalogue	**C3** Lifting units Drainage and sewage	**C3** Lifting units Drainage and sewage	**C3** Lifting units Drainage and sewage

Sewage lifting unit
with 2 dry-mounted pumps
Wilo-DrainLift XXL

For pumping untreated sewage that cannot be discharged to the sewer system via the natural fall

Sewage lifting unit with 2 dry-mounted pumps

180 m³/h
20.5 m

- Mains connection 3~400 V, 50 Hz
- Operating mode S3
- Max. fluid temperature 40 °C, for short periods 65 °C
- Free ball passage 78 or 95 mm, depending on type
- Min. suction head (bottom to top of inlet) 700 mm
- Protection class (without switchgear) IP 68
- Gross tank volume 400/800 l
- Switching volume 200/400 l

- Sheath current cooling
- Motor monitoring via temperature (TWC) and impermeability
- Level control with float switch
- Alternating and peak-load operation
- Potential-free contact
- Pump cable detachable
- Hose connection for ventilation
- Hose connection for diaphragm hand pump
- Kit for pressure pipe connection
- Fixation material
- Switchgear

- Large tank volume
- Low weight
- Wide performance range
- Suitable for permanent operation (due to integrated sheath current cooling)

Sewage lifting unit
with solids separation system
Wilo-DrainLift FTS

For pumping untreated sewage that cannot be discharged to the sewer system via the natural fall

Sewage lifting unit with solids separation system

70 m³/h
30 m

- Mains connection 3~400 V, 50 Hz
- Operating mode: S2-10 (15) min
- Max. fluid temperature 40 °C
- Free ball passage 65 or 70 mm, depending on type
- Min. suction head (bottom to bottom of inlet) 750 mm
- Protection class (without switchgear) IP 68
- Tank volume 400 l
- Switching volume 300 l

- Motor monitoring via temperature
- Level control with level sensor
- Potential-free contact
- Non-return valve
- Inlet seal
- Fixation material

- System non-susceptible to plugging due to solids separation
- High degree of efficiency due to pumps with small free ball passage
- High delivery heads
- Ready for connection and fully submersible
- Large tank volume

Pumps station with synthetic tank
Wilo-DrainLift WS 40 Basic
Wilo-DrainLift WS 40-50

For pumping untreated sewage that cannot be discharged to the sewer system via the natural fall

Pumps station with synthetic tank or as sewage lifting unit in the building

60 m³/h
28 m

- Synthetic pumps station made of recyclable PE-HD
- Highest degree of upward pressure reliability and inherent stability due to finning
- Inlets freely selectable on site
- For supply line in DN 100
- Ventilation pipe connection in DN 70
- Max. pressure in the pressure pipe 6 bar

Wilo-Drain pumps that can be used:
TC 40
TP 50
TP 65
MTS 40/21 ... 27

- Freely selectable inlets
- Flexible installation due to optional sump length extension
- Easy installation and maintenance of the pumps due to surface coupling when Wilo-Drain pumps TP 50 and/or TP 65 are used
- Also with macerator pumps Wilo-Drain MTS 40/21 ... 27

Pumps station with synthetic tank
Wilo-DrainLift WS 625

For pumping untreated sewage that cannot be discharged to the sewer system via the natural fall

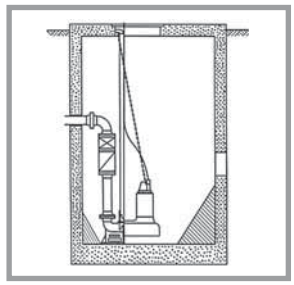
Pumps station with synthetic tank

18 m³/h
27 m

- Synthetic pumps station made of recyclable PE
- Highest degree of upward pressure reliability due to finning
- Available in 4 heights, 1,200, 1,500, 1,800 and 2,100 mm
- Sump covers in the standard versions, can be walked on or driven over
- Max. pressure in the pressure pipe 6 bar (MTS 40) or 4 bar

Wilo-Drain pumps that can be used:
TMW 32
TC 40
STS 40
MTS 40/21 ... 27

- Small sump diameter (625 mm)
- Flexible use due to different installation heights
- Complete due to integrated valves and seals
- Can be walked on or driven over, depending on optional cover
- Application as sewage lifting unit within buildings
- As pumps station outside buildings

Product sector	Pumps station with synthetic tank	Pumps station made of concrete	EMUPORT solids separation system
Series	Wilo-DrainLift WS 900 Wilo-DrainLift WS 1100	Wilo-EMU Anlagenbau	EMUPORT PEHD pumps station
			
Application	For pumping untreated sewage that cannot be discharged to the sewer system via the natural fall	For pumping untreated sewage that cannot be discharged to the sewer system via the natural fall	For pumping untreated sewage that cannot be discharged to the sewer system via the natural fall
Design	Pumps station with synthetic tank	Pumps station made of concrete	Underground pumping station made of PEHD
Volume flow, Q max.	125 m³/h	On request	On request
Delivery head, H max.	37 m	On request	On request
Technical data	• Synthetic pumps station made of recyclable PE • Maximum upward pressure reliability due to 2 or 4 lateral fins • 2/4 inlets can be selected on site • Maximum stability due to moulded hemi-spherical shape of the sump floor • Wilo surface coupling • Good accessibility of the level sensor due to installation with hinged supporting bar • Max. traffic load 5 kN/m2 (in accordance with DIN EN 124, Group 1) • Max. pressure in the pressure pipe 6 bar	• Made of monolithic, statically tested watertight concrete • As single or double-pump system • Complete with pipework and all required valves	Pumps stations ready for connection • With wet-mounted sewage pumps • With dry-mounted sewage pumps and solids separation system
Equipment/function	Wilo-Drain pumps that can be used: TS 40 TP 50 TP 65 STS 65 TP 80 MTS 40		
Special features	• Freely selectable inlets • Flexible application: As lifting unit inside buildings or as pumps station outside of buildings. • Large tank volume (200/400 l) • Flexible installation due to optional sump length extension • Easy installation and maintenance of the pumps due to surface coupling when Wilo Drain pumps TP 50, TP 65, STS 65, MTS 40/... are used • Also with macerator pumps Wilo-Drain MTS 40/...	• Customer-specific versions	For solids separation system • Low maintenance and operating costs • Pump room is dry, clean and odourless • With double-pump system, the system remains fully functional even during the maintenance of a pump • Low wear
Catalogue	**C3** Lifting units Drainage and sewage	On request	On request

Wilo-EMU Miniprop
TR 14 to TR 28

Swirling of deposits and solids in rain spillway basin and pump sump; destruction of floating sludge layers; other areas of application in agriculture and water supply

Compact directly driven submersible mixer

Thrust: 45 – 330 N

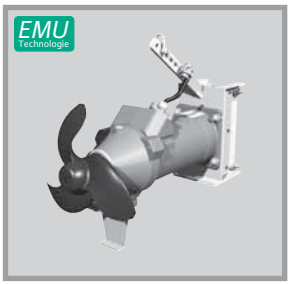
- Mains connection: 3~400 V, 50 Hz
- Submerged operating mode: S1
- Protection class: IP 68
- Max. fluid temperature: 40 °C
- Mechanical seal with SiC/SiC combination
- Permanently lubricated anti-friction bearing
- Max. submersion depth: 12.5 m

- Stationary installation on walls and floors
- Flexible installation due to lowering device or special pipe attachment
- Can be swivelled vertically and horizontally for installation with lowering device

- Submersible
- Low power consumption
- Low weight
- ATEX and FM versions
- Self-cleaning propeller with Helix hub
- Easy-to-install propeller attachment
- Propeller in steel or PUR version
- Optional: Motor shaft made of 1.4462 material

Wilo-EMU Uniprop without gear
TR 22 to TR 40

Series modification



Swirling of deposits and solids in rain spillway basin and pump sump; destruction of floating sludge layers; other areas of application in agriculture and water supply

Compact directly driven submersible mixer

Thrust: 185 – 1060 N

- Mains connection: 3~400 V, 50 Hz
- Submerged operating mode: S1
- Protection class: IP 68
- Max. fluid temperature: 40 °C
- Mechanical seal with SiC/SiC combination
- Permanently lubricated anti-friction bearing
- Max. submersion depth: 12.5 m

- Stationary installation on walls and floors
- Flexible installation via lowering device
- Can be swivelled vertically and horizontally for installation with lowering device

- Submersible
- Self-cleaning propeller with Helix hub
- Easy-to-install propeller attachment
- Propeller in cast, steel or PUR version
- ATEX and FM versions

Wilo-EMU Uniprop with gear
TR 50-2 to TR 90-2

Application in activated sludge tanks and sludge tanks for creation of fluid current , suspension of solids, homogenisation and prevention of floating sludge layers; other areas of application in industry, agriculture and water supply

Submersible mixer with single-stage planetary gear

Thrust: 350 – 2120 N

- Mains connection: 3~400 V, 50 Hz
- Submerged operating mode: S1
- Protection class: IP 68
- Max. fluid temperature: 40 °C
- Single-stage planetary gear
- Mechanical seal with SiC/SiC combination
- Permanently lubricated anti-friction bearing
- Max. submersion depth: 12.5 m

- Stationary installation on walls
- Flexible installation via lowering device
- Can be swivelled horizontally for installation with lowering device
- Installation with stand allows free placement in basin
- Single-stage planetary gear

- Submersible
- Single-stage planetary gear for adjusting the propeller speed
- Self-cleaning propeller
- Easy-to-install propeller attachment
- Propeller in steel, PUR or PUR/GFK version
- ATEX and FM versions
- 1.4462 gear shaft

Wilo-EMU Maxiprop TR 215 to TR 226
Wilo-EMU Megaprop TR 315 to TR 326

Series modification

Energy-optimised mixing and circulation of activated sludge; generation of flow rates in circulation channels; further areas of application in industry

Slow-running submersible mixer reduced by two-stage planetary gear

Thrust: 300 – 5270 N

- Mains connection: 3~400 V, 50 Hz
- Submerged operating mode: S1
- Protection class: IP 68
- Max. fluid temperature: 40 °C
- Two-stage planetary gear with exchangeable second planetary gear speed
- Mechanical seal with SiC/SiC combination
- Permanently lubricated anti-friction bearing
- Max. submersion depth: 12.5 m

- Installation with stand allows free placement in basin
- Flexible installation
- Two-stage planetary gear with exchangeable second planetary gear speed

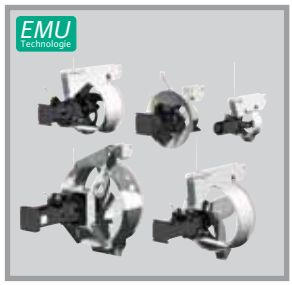
- Submersible
- 2-stage planetary gear for adjusting the propeller speed
- Self-cleaning propeller
- Propeller blades can be replaced individually
- Easy-to-install blades and hub
- Propeller in GFK version
- ATEX and FM versions
- 1.4462 gear shaft

Drainage and sewage

Product sector
Wilo-EMU RZP ...

Series

Series modification



Application
For pumping sewage via low delivery heads at high flow rates, e.g. between balancing, nitrification and denitrification basins; for pumping process, raw, pure and cooling water, e.g. in paint finishing systems or for potable water treatment; generation of fluid current in water channels, e.g. amusement parks

Design
Submersible mixers with housing unit, directly driven (RZP 20 ..., RZP 25-2 ...) or with single-stage planetary gear (RZP 50-3 ..., RZP 60-3 ..., RZP 80-2 ...)

Volume flow, Q max.
10,000 m³/h

Delivery head, H max.
7 m

Technical data
- Mains connection: 3~400 V, 50 Hz
- Submerged operating mode: S1
- Protection class: IP 68
- Max. fluid temperature: 40 °C
- Units are directly driven or with single-stage planetary gear
- Mechanical seal with SiC/SiC combination
- Permanently lubricated anti-friction bearing
- Max. submersion depth: 12.5 m

Equipment/function
- Stationary installation directly on flow pipe
- Flexible installation via lowering device
- Vertical or in-line installation possible

Special features
- Submersible
- Vertical or in-line design
- Self-cleaning propeller, partially with Helix hub
- Propeller in steel or PUR version
- ATEX and FM versions

Catalogue
C4 Submersible mixers

Re-circulation pumps

Wilo-EMU FA

Series A to Z	Catalogue 50 Hz
EMUPORT PEHD solids separation system	On request
Wilo-AXL	A1
Wilo-BAC	A3
Wilo-Cargo MC	B1
Wilo-CC-HVAC-System	A1, A2, A3
Wilo-Comfort-CO 2-6 MVI ... /CC	B4
Wilo-Comfort-CO 2-6 Helix-.../CC	B4
Wilo-Comfort-COR 2-6 MVI ... /CC	B4
Wilo-Comfort-COR 2-6 Helix-V.../CC	B4
Wilo-Comfort-N-CO 2-6 MVIS ... /CC	B4
Wilo-Comfort-N-COR 2-6 MVIS ... /CC	B4
Wilo-Comfort-N-Vario COR-1 MVISE ...	B4
Wilo-Comfort-N-Vario-COR 2-4 MVISE ... /VR	B4
Wilo-Comfort-Vario COR-1 MVIE ...	B4
Wilo-Comfort-Vario-COR 2-4 MHIE ... /VR	B4
Wilo-Comfort-Vario-COR 2-4 MVIE ... /VR	B4
Wilo-Control AnaCon	A1, A2
Wilo-Control DigiCon	A1, A2
Wilo-CR System	A1, A2, A3

Series A to Z	Catalogue 50 Hz
Wilo-CRn System	A1, A2
Wilo-CronoBloc-BL	A3
Wilo-CronoLine-IL	A2
Wilo-CronoLine-IL-E	A2
Wilo-CronoLine-IL-E ... BF	A2
Wilo-CronoNorm NL	A3
Wilo-CronoTwin-DL	A2
Wilo-CronoTwin-DL-E	A2
Wilo-Dia-Log	A1, A2
Wilo-Drain LP	C1
Wilo-Drain LPC	C1
Wilo-Drain MTC	C2
Wilo-Drain MTS	C2
Wilo-Drain STS	C2
Wilo-Drain TC	C2
Wilo-Drain TM/TMW	C1
Wilo-Drain TMC	C1
Wilo-Drain TMT	C1
Wilo-Drain TP 50, 65	C2

Series A to Z	Catalogue 50 Hz	Series A to Z	Catalogue 50 Hz
Wilo-Drain TP 80, 100	C2	Wilo-Economy CO/T-1 MVI ... /ER	B4
Wilo-Drain TS	C1	Wilo-Economy CO-1 MVI ... /ER	B4
Wilo-Drain VC	C1	Wilo-Economy CO-1 Helix.../ER	B4
Wilo-DrainLift Box	C3	Wilo-Economy CO-1 MVIS ... /ER	B4
Wilo-DrainLift Con	A1, C3	Wilo-Economy MHI	B3
Wilo-DrainLift FTS	C3	Wilo-Economy MHIE	B3
Wilo-DrainLift KH 32	C3	Wilo-Economy MHIL	B3
Wilo-DrainLift L	C3	Wilo-EMU AVU	C4
Wilo-DrainLift M	C3	Wilo-EMU D	B2
Wilo-DrainLift S	C3	Wilo-EMU DCH	B2
Wilo-DrainLift TMP	C3	Wilo-EMU FA	C2
Wilo-DrainLift WB	On request	Wilo-EMU K	B2
Wilo-DrainLift WS 40-50	C3	Wilo-EMU KD	B2
Wilo-DrainLift WS 625	C3	Wilo-EMU KM	B2
Wilo-DrainLift WS 900-1100	C3	Wilo-EMU KPR	C2
Wilo-DrainLift XS-F	C3	Wilo-EMU KS	C1
Wilo-DrainLift XL	C3	Wilo-EMU NK	B2
Wilo-DrainLift XXL	C3	Wilo-EMU NR	B2
Wilo-Economy CO 2-4 MHI ... /ER	B4	Wilo-EMU RZP	C4

Series A to Z	Catalogue 50 Hz	Series A to Z	Catalogue 50 Hz
Wilo-EMU SCH	B2	Wilo-MultiPress MP	B1
Wilo-EMU SR	C4	Wilo-Multivert MVI	B3
Wilo-EMU TR	C4	Wilo-Multivert MVIE	B3
Wilo-FilTec FBS	B1	Wilo-Multivert MVIL	B3
Wilo-Helix-V	B3	Wilo-Protect-Module C	A1
Wilo-Helix-VE	B3	Wilo-RainCollector II RWN	B1
Wilo-IF-Module	A1, A2	Wilo-RainSystem AF 150	B1
Wilo-IF-Module Stratos	A1	Wilo-RainSystem AF 400	B1
Wilo-IR-Module	A1, A2	Wilo-RainSystem AF Basic	B1
Wilo-IR-Monitor	A1, A2	Wilo-RainSystem AF Comfort	B1
Wilo-Jet FWJ	B1	Wilo-Safe package heat exchanger assembly	A1
Wilo-Jet HWJ	B1	Wilo-SCP	A3
Wilo-Jet WJ	B1	Wilo-SD Switchgears	A1
Wilo-MBH diaphragm pressure vessel	B4	Wilo-SK Switchgears	A1
Wilo-MultiCargo FMC	B1	Wilo-SR Switchgears	A1
Wilo-MultiCargo HMC	B1	Wilo-SilentMaster	B1
Wilo-MultiCargo MC	B1	Wilo-Smart	A1
Wilo-MultiPress FMP	B1	Wilo-Star-E	A1
Wilo-MultiPress HMP	B1	Wilo-Star-RS	A1

Series A to Z	Catalogue 50 Hz
Wilo-Star-RSD	A1
Wilo-Star-RSG	A1
Wilo-Star-RSL	A1
Wilo-Star-ST	A1
Wilo-Star-Z	A1
Wilo-Stratos	A1
Wilo-Stratos ECO	A1
Wilo-Stratos ECO-L	A1
Wilo-Stratos ECO-ST	A1
Wilo-Stratos ECO-Z	A1
Wilo-Stratos-D	A1
Wilo-Stratos-Z	A1
Wilo-Sub TWI 5 / TWI 5-SE	B1
Wilo-Sub TWI 5-SE Plug & Pump	B1
Wilo-Sub TWU	B2, B1
Wilo-Sub TWI	B2
Wilo-TOP-D	A1
Wilo-TOP-E	A1
Wilo-TOP-ED	A1

Series A to Z	Catalogue 50 Hz
Wilo-TOP-S	A1
Wilo-TOP-SD	A1
Wilo-TOP-Z	A1
Wilo-VBH Tank	B4
Wilo-VeroLine-IPH-O	A2
Wilo-VeroLine-IPH-W	A2
Wilo-VeroLine-IP-Z	A2
Wilo-VeroLine-IP-E	A2
Wilo-VeroLine-IPL	A2
Wilo-VeroLine-IPS	A2
Wilo-VeroNorm-NPG	A3
Wilo-VeroTwin-DP-E	A2
Wilo-VeroTwin-DPL	A2
Wilo-VR HVAC system	A1, A2, A3

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