Pioneering for You

Information for OEM Building Services

WILO – OEM HVAC product range.

Solutions for residential and commercial applications.

Wilo –
Pioneering for You.

We are there for you worldwide.

Since 1872, we at Wilo have been turning visionary ideas into intelligent solutions that regularly set new standards in the industry. The goal of our company founder, Caspar Ludwig Opländer, was to use his *Kupfer- und Messing-warenfabrik* to improve and facilitate the supply of water to people. It was not long until the decisive step was made: In 1928, his son Wilhelm designed the world's first circulation accelerator.

We have continued this tradition ever since with pioneering innovations, such as the world's first high-efficiency pump in the heating, air-conditioning and cooling sector, and at the same time we have proven our commitment to using valuable resources such as energy and water responsibly. Today, with its headquarters in Dortmund, the Wilo Group is a complete system supplier of pumps and pumping systems for water management with worldwide presence.

Cooperative support on which you can rely on.

With over 7,500 employees and 60 production and sales companies all over the world, we personally see to it that the desires and requirements of our customers and users – whether specialist consultants, operators, or general contractors – are optimally met every day. This means making your life and work as easy as possible with the help of our products, solutions and services.

"Pioneering for You" is our commitment to a clear customer focus, strict quality orientation and strong passion for technology. In times of dwindling natural resources, the responsible management of water is an extremely important task, which is why we are committed to providing pioneering developments, sustainable product solutions, and cooperative support to ensure you can rely on our solutions for the daily management of water. That's what we call Pioneering for You.

The HVAC OEM Group Competence Centre.
Performance at its best.

"Our customers are always at the centre of all our actions. With years of experience and extraordinary competence in the OEM area, we develop tailor-made solutions for each task. To achieve this, we use an extensive assortment of existing system modules and individually developed integral products."

The HVAC OEM Group Competence Centre:

- → 500 employees exclusively for OEM customers
- → Research and development teams for OEM using the full Wilo structures: development teams and factories
- → Versatile test laboratory
- → Experts in electronics and motor technology

Michael Ranft
General Manager

OEM HVAC competences for each residential and commercial application.
Efficient and reliable.

Wilo bundles its competencies and offers a wide range of pumps in order to deliver individual solutions for space heating and cooling.

The HVAC OEM Competence Centre concentrates on applications for space heating and cooling, solar thermal thechnology, geothermal energy and sanitary systems. This focus enables us to understand our customers' tasks better, and to develop optimum solutions for integration into their systems.

Development and production take place in our modern plant in France. Adjustments and modifications to a product can thus be made and implemented directly, without delay.

Here, we produce more than 5 million pumps per year and deliver them to more than 1,000 OEM customers of Wilo according to their specific requirements. This means that by now every second heating system worldwide is equipped with a Wilo pump.

We check each development and production step with the help of recognised measures, thereby guaranteeing the high quality standard of our products. We comply with all necessary standards (VDE, ACS, BSI, CE, CCC, IMQ, WRC, KTW) and are certified to ISO 9001 and ISO 14001.

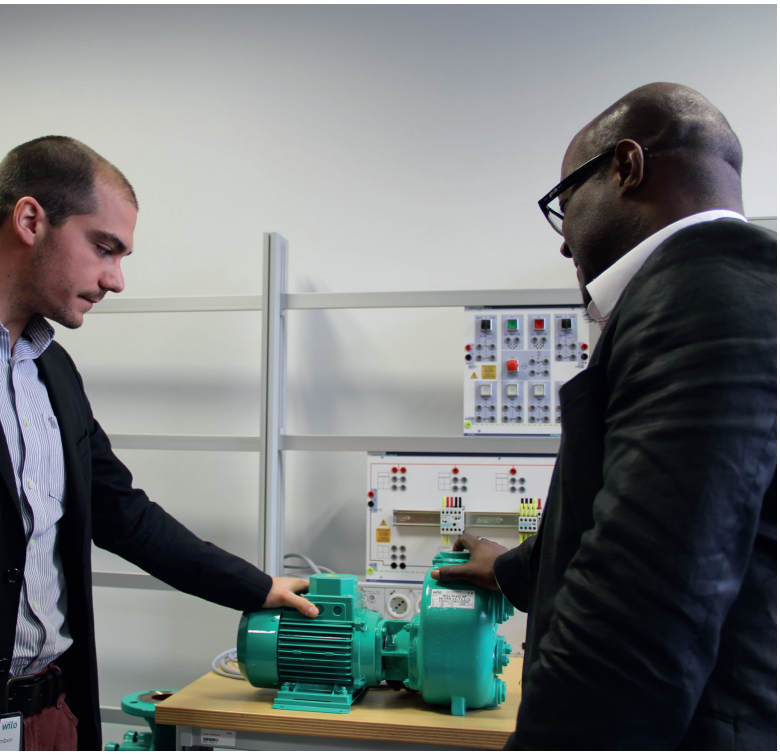
Production to order represents an important aspect of our strategy. We start production when our customers place their order. This reduces storage costs and guarantees the use of the newest components. Our customers thus also benefit from these optimised peripheral costs.

Furthermore, we offer a flexible transport network and cooperate with selected partners. This means we make individual logistics solutions possible, to help our customers control their production processes more efficiently.

To guarantee sustainable quality, we carry out qualification measures together with our customers (noise, acoustics and hydraulic tests). Even after installation, our Customer Quality Team is always available for support. In addition, we offer our global customers system training in our Competence Centre or on their premises. The focus in this case is directed towards the product in the overall context of the customer's application.

Worldwide, the Wilo key account organisation looks after our international customers. Nationally operating customers get a direct contact to our local OEM Sales support.

Our service offering.
To make your life easier.



OEM HVAC application and product training

Based on our high experience in the OEM HVAC market segment, we offer and share:

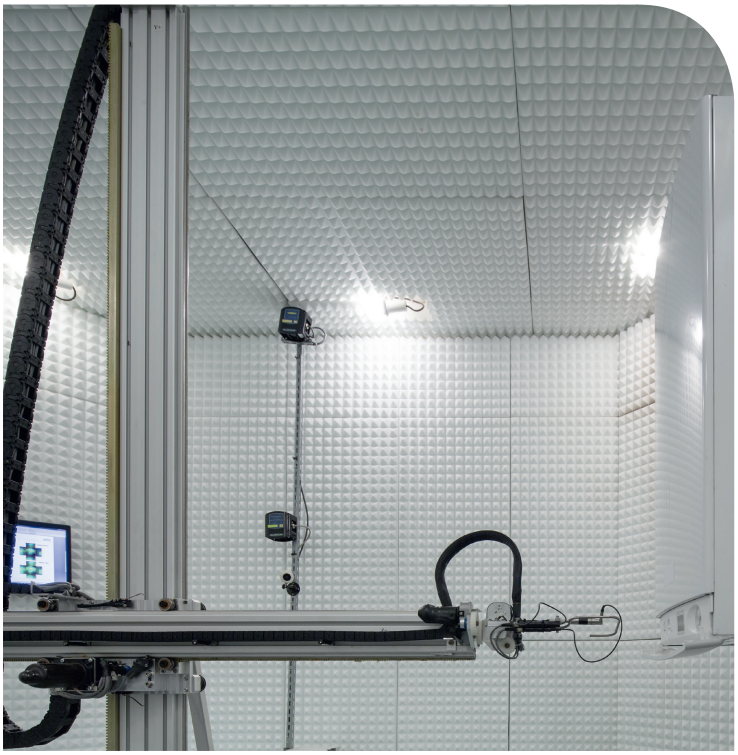
- → Basic and advanced knowledge of hydraulics and pumps for HVAC application
- → Basic and advanced knowledge of motor technology and control mode for HVAC Building Services
- → Presentation of our OEM HVAC solutions
- → Training/notes for OEM products in use (trouble shooting)
- → Basic and advanced knowledge of OEM HVAC residential and commercial applications

The training sessions can be organised worldwide, on-site or off-site.

Market Intelligence

Continuous monitoring of market trends: We monitor and analyse the market trends to support our customers worldwide.

- → We continously update our figures on the HVAC market trend, demand, growth, products and innovation all over the world.
- → We share this knowledge, as a partner, to offer state-of-the-art technology products and to support you with any new project.



Rapid prototyping for OEM HVAC application

Rapid prototyping is our daily business.

- → Only two working days are needed to produce prototypes for standard and high-efficiency circulators.
- → The team is working according to the Kaizen philosophy. Its efficiency is based on a KANBAN system where the components are available for immediate assembling and delivery to the customer.

OEM HVAC applications knowledge

We continuously strive to strengthen our application know-how in order to understand the application in the overall system instead of just seeing the pump as a component, especially when it comes to complex challenges.

- → Strong in application know-how, our experts analyse, qualify and validate our products in our customers' application.
- → With various approved methods, experts check each development step in order to continuously keep the highest quality level.
- → With our application identity card, we carry out qualification measures together with the customer (noise, acoustics and hydraulics).
- → We also offer EMC measurement to support you in your qualification phase.

Products for residential applications.

	Heating and cooling systems	Solar thermal energy systems	Geothermal energy systems	Domestic hot water circulation	Page
Wilo-Yonos PARA	x				10
Wilo-Yonos PARA ST		x			12
Wilo-Yonos PARA GT			x		13
Wilo-Yonos PARA-Z				x	13
Wilo-Yonos PARA RSTG	x	x	x		14
Wilo-Yonos PARA High Flow	x	x	x		16
Wilo Hydroblock	x				18
Wilo-Stratos PARA	x	x	x		20
Wilo-Stratos PARA-Z				x	21

Products for commercial applications.

	Heating and cooling systems	Air-conditioning systems	Domestic hot water circulation	Hydraulic network maintenance	Page
Wilo-Stratos PARA	x	x			20
Wilo-Stratos PARA-Z			x		21
Wilo-Stratos	x	x			22
Wilo-Economy MHI	x	x	x	x	24
Wilo-Economy MHIL	x	x		x	25
Wilo-Economy MHIE	x	x			25
Wilo-Helix V	x	x	x	x	26
Wilo-Helix First V	x			x	26
Wilo-Helix VE	x	x			27
Wilo-Helix EXCEL	x				27
Wilo-VeroLine-IPL	x	x			28
Wilo-VeroTwin-DPL	x	x			28
Wilo-VeroLine-IP-E	x	x			29
Wilo-VeroTwin-DP-E	x	x			29
Wilo-CronoLine-IL	x	x			30
Wilo-CronoTwin-DL	x	x			30
Wilo-CronoLine-IL-E	x	x			31
Wilo-CronoTwin-DL-E	x	x			31
Wilo-BAC		x			32
Wilo-CronoBloc-BL	x	x			33
Wilo-CronoBloc-BL-E	x	x			33
Wilo-Stratos GIGA	x	x			34
Wilo-Stratos GIGA B	x	x			35

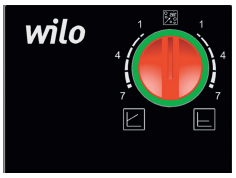
Wilo-Yonos PARA,
flexible for every hydraulic system.

The Yonos PARA series offers the appropriate pump type for all application fields in heating and cooling, solar thermal, geothermal and domestic hot water. Furthermore, a wide selection of pump housings is available as standard. The flexible equipment of the pumps with different controllers makes them into an all-round talent.

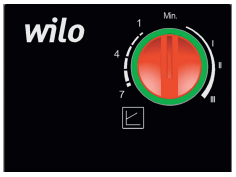
Special features/benefits:

- → Unique LED interface
- → Convenient setting of the pump via external control signals via Red Knob
- → Inrush current peak less than 3A
- → Optionally with a thermal insulation or cooling shell

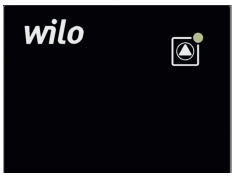
Unique LED interface



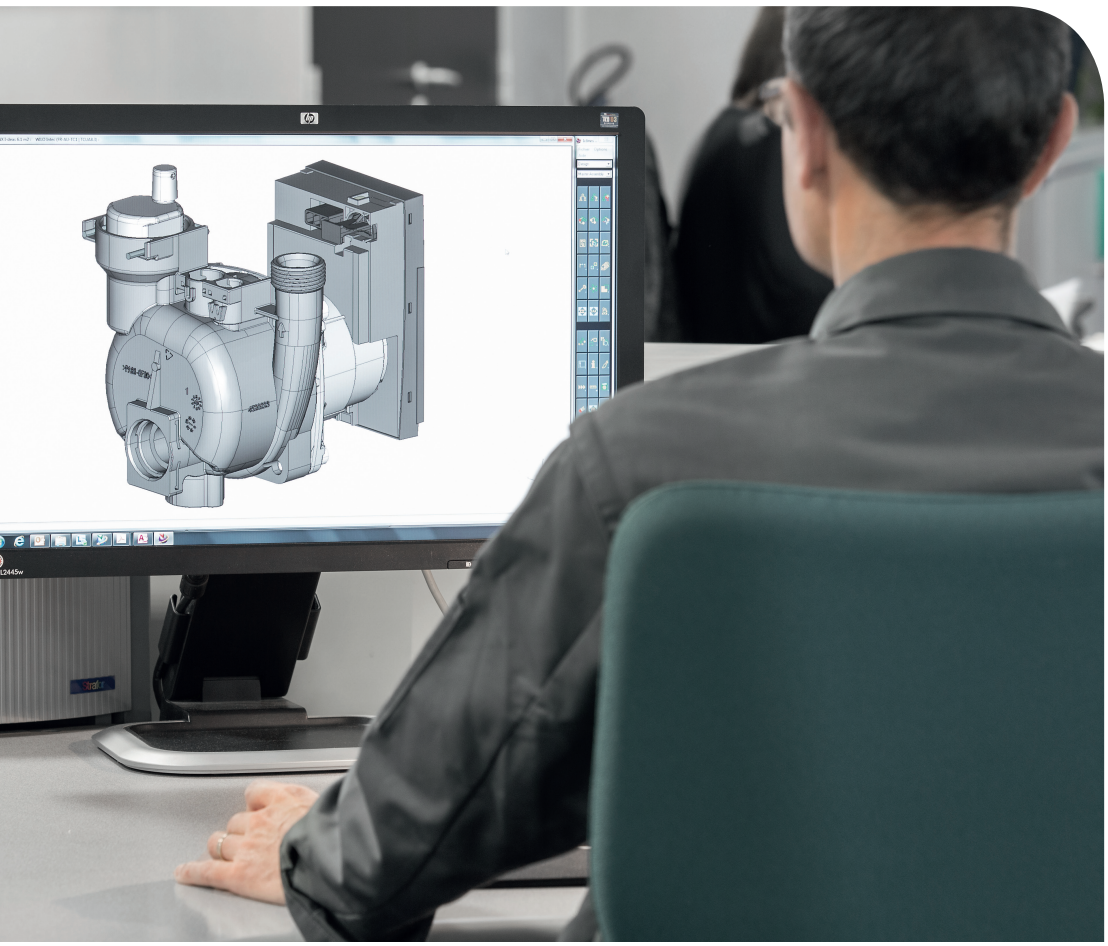
Self controlled via Red Knob
(Δ p-v, Δ p-c, air venting routine)



Self controlled via Red Knob
(Δ p-v, constant speed)



External control via PWM1/PWM2 signal



Especially for heating applications Wilo developed a wide range of specific composite pump housings. So a high flexibility will be guaranteed for our customers.

Wide range of pump housings

RS

RSB

RS Ku

RSL Ku

BSL

KSL

MSL

NFSL

HU 15

HU 25

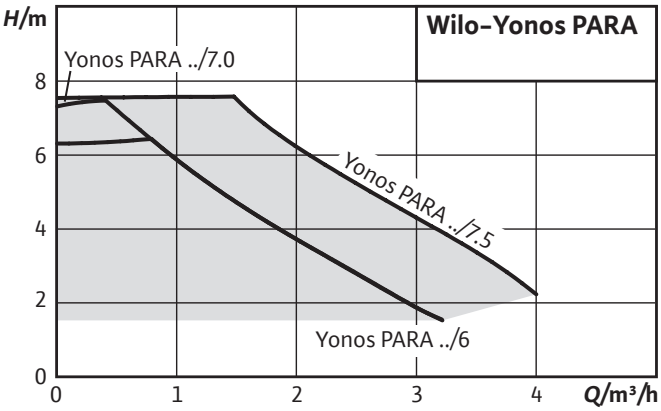
HPS

TWP

Wilo-Yonos PARA
Heating and cooling

The Yonos PARA offers a wide range of products specifically designed for optimised integration in heating and cooling applications. Depending on customers' needs, functions can be easily integrated in a variety of customised composite housings.

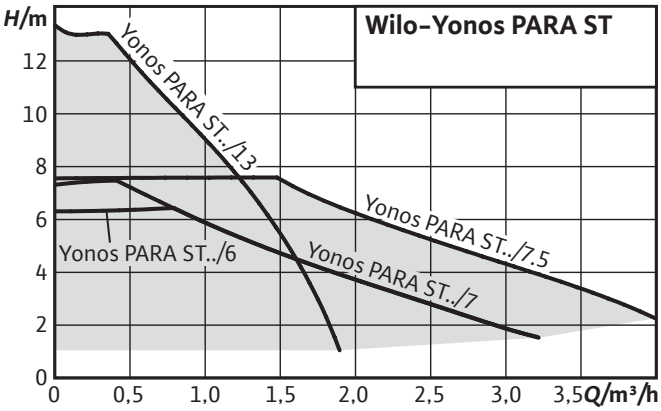
Technical data	
Fluid temperature	0 °C to +95 °C
Ambient temperature	0 °C to +70 °C
Control mode (Red Knob)	Version RKA: Δ p-v, Δ p-c, air venting Version RKC: Δ p-v, constant speed
External control	PWM1 signal
Range of hydraulics	6/7/7.5 m
Size	130/180 mm DN 15/DN 25/DN 30
EEI	≤ 0.21



Wilo-Yonos PARA ST
Solar thermal

For solar thermal applications, the Yonos PARA range offers solutions which meet your specific requirements. Increased static pressure and higher temperatures are handled with ease in order to provide a maximum reliability.

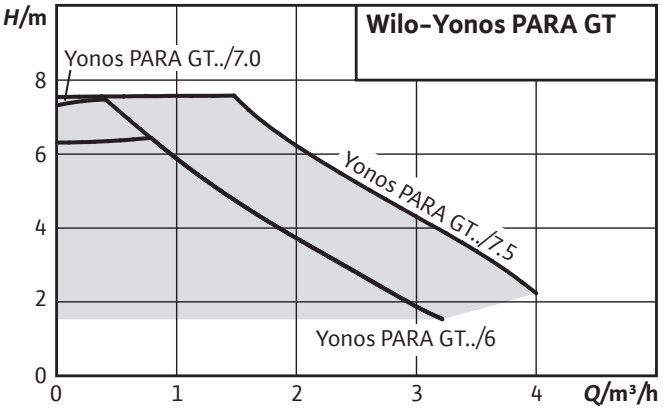
Technical data	
Fluid temperature	0 °C to +110 °C (+140 °C)
Ambient temperature	0 °C to +70 °C
Control mode (Red Knob)	Version RKC: Δ p-v, constant speed
External control	PWM2 signal
Range of hydraulics	6/7/7.5/13 m
Size	130/180 mm DN 15/DN 25/DN 30
EEI	≤ 0.21



Wilo-Yonos PARA GT
Geothermal

The Yonos PARA GT range offers circulators for geothermal (GT) applications. With a minimum fluid temperature of -20 °C, these circulators are suitable for use in brine circuits.

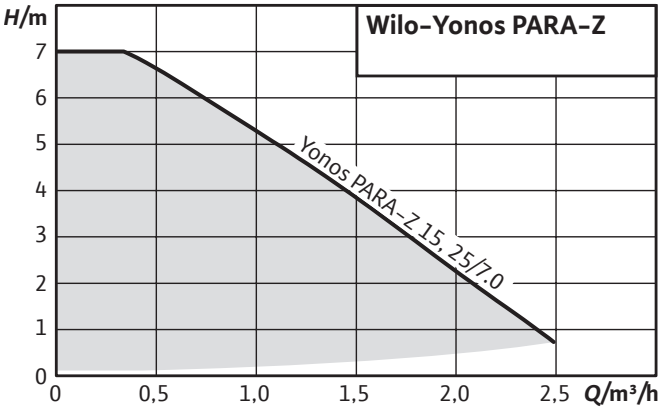
Technical data	
Fluid temperature	-20 °C to +95 °C
Ambient temperature	0 °C to +70 °C
Control mode (Red Knob)	Version RKC: Δ p-v, constant speed
External control	PWM1 signal
Range of hydraulics	6/7/7.5 m
Size	130/180 mm DN 15/DN 25/DN 30
EEI	≤ 0.20



Wilo-Yonos PARA-Z
Domestic hot water circulation

The Yonos PARA-Z family is suitable for sanitary use. Different control modes (RK/PWM) and port-to-port dimensions are available to cover a variety of applications. Equipped with dedicated dezincification resistant brass pump housings, the Yonos PARA-Z range responds perfectly to the conditions of sanitary use.

Technical data	
Fluid temperature	0 °C to +95 °C
Ambient temperature	0 °C to +70 °C
Control mode (Red Knob)	Version RKC: Δ p-v, constant speed
External control	PWM2 signal
Range of hydraulics	7 m
Size	130/180 mm DN 15/DN 25

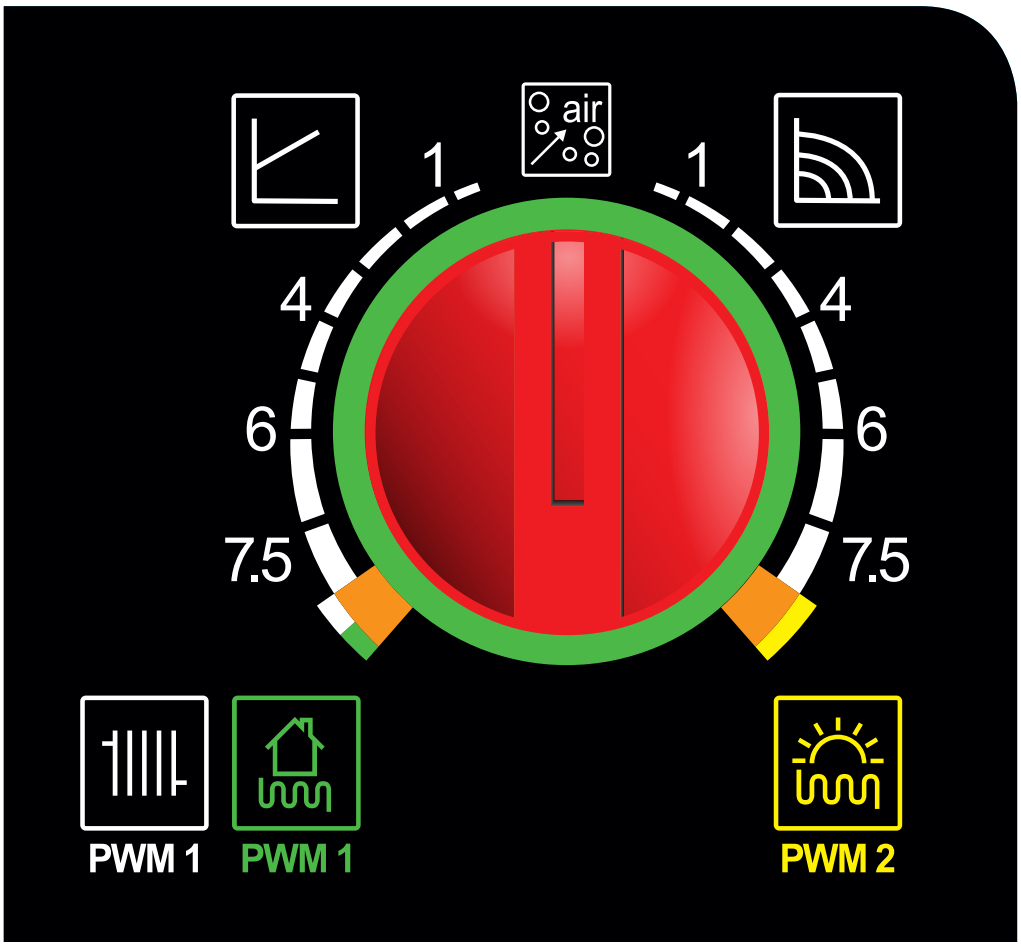


Wilo-Yonos PARA RSTG,
the new generation.

Glandless circulation pump with a cast iron pump housing and corossion protected motor casing and screws. ECmotor with automatic power adjustment and self-protecting modes. Operation by Red Knob technology or remote control via external PWM1 or 2 signal. Equipped with LED user interface. The one fits all solution which makes your life easier!

Special features/benefits:

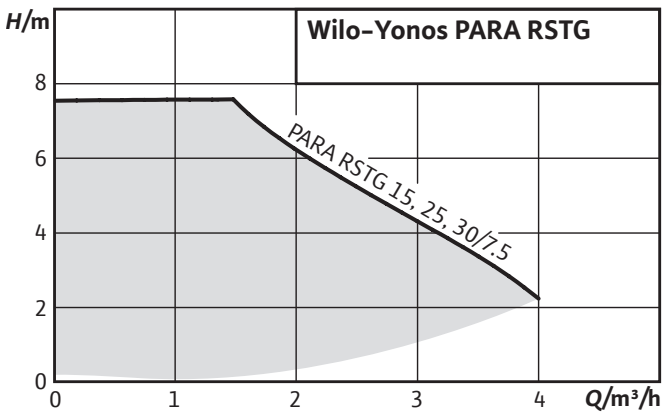
→ One product for all applications
→ Red Knob technology or PWM controlled
→ Unique LED user interface
→ Self-protecting modes
→ Air-venting routine



Self controlled via Red Knob
(Δ p-v, air venting, constant speed, externally controlled by PWM1 or PWM2 signal)

Wilo-Yonos PARA RSTG
Heating and cooling, solar thermal and geothermal

Technical data	
Fluid temperature	-20 °C to +110 °C (140 °C)
Ambient temperature	0 °C to 70 °C
Control mode (Red Knob)	Δ p-v, air venting, constant speed
External control	PWM1/PMW2 signal
Range of hydraulics	7.5 m
Size	130/180 mm DN 15/DN 25/DN 30
EEI	≤ 0.21



Wilo-Yonos PARA High Flow, the new generation.

The Yonos PARA High Flow is the latest technology from Wilo OEM. It is the perfect solution for replacing standard pumps, because no additional balancing is needed.

Special features/benefits:

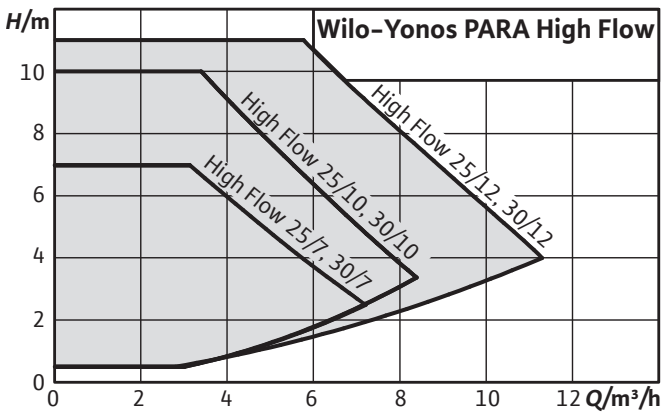
- → Maximum efficiency thanks to ECM technology
- → Simple commissioning and operation
- → Collective fault signal on all types to assure system availability
- → Optionally with a thermal insulation

Self controlled via Red Knob
(Δ p-v, Δ p-c, constant speed)

Broad application range thanks to permitted temperature range –20 °C to +110 °C.

Wilo-Yonos PARA High Flow
Heating and cooling, solar thermal and geothermal

Technical data	
Fluid temperature	–20 °C to +110 °C
Ambient temperature	+25 °C to +65 °C
Control mode (Red Knob)	Δ p-v, Δ p-c, constant speed
External control	–
Range of hydraulics	7/10/12 m
Size	180 mm DN 25/DN 30
EEI	≤ 0.23

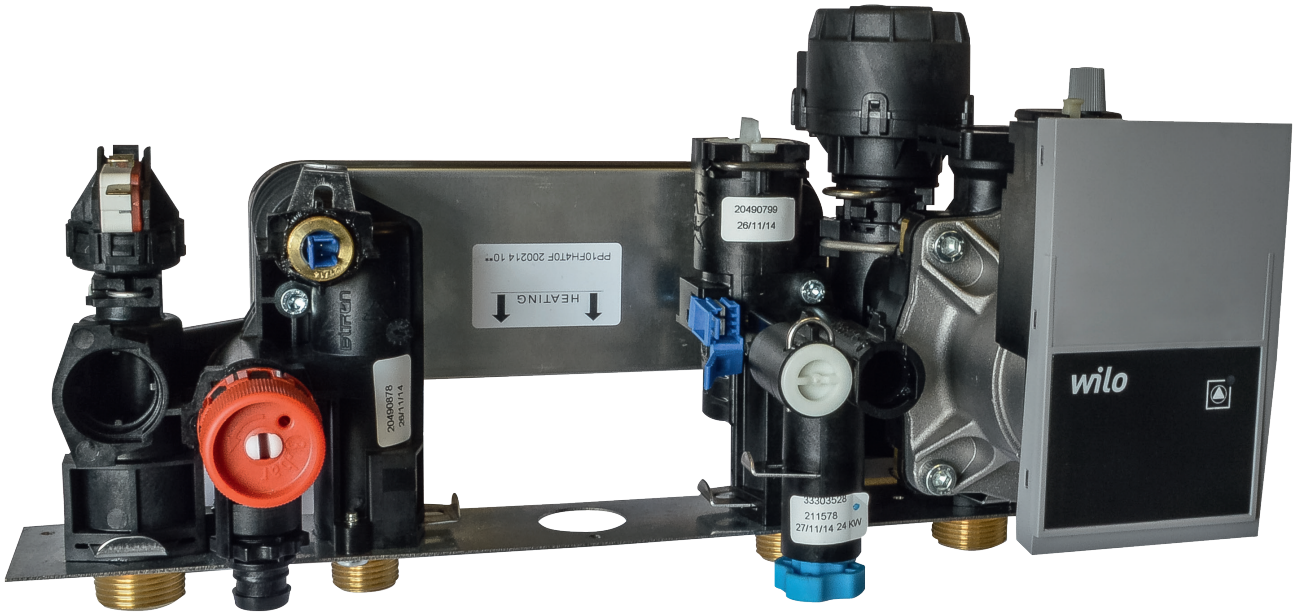


The Hydraulic Group powered for you
by Bitron HVAC Systems and Wilo.

Our Partnership
In the increasingly competitive and complex international environment in which we operate, you are seeking for reliable partners to develop your high quality & innovative hydraulic solutions?

To meet the requirements stemming from this fast changing environment, Bitron HVAC Systems and Wilo have put together their complementary competencies, know-how and resources to serve our OEM HVAC customers in the best possible way.

This partnership aims at providing you outperforming, innovative products and services in all domains that certainly concern you the most: quality and project management, competitiveness, innovation to name a few.



The Hydraulic Group

The family of Hydraulic Groups is comprehensive and well established on the basis of different models already on the market and millions installed systems for the major European HVAC OEMs.

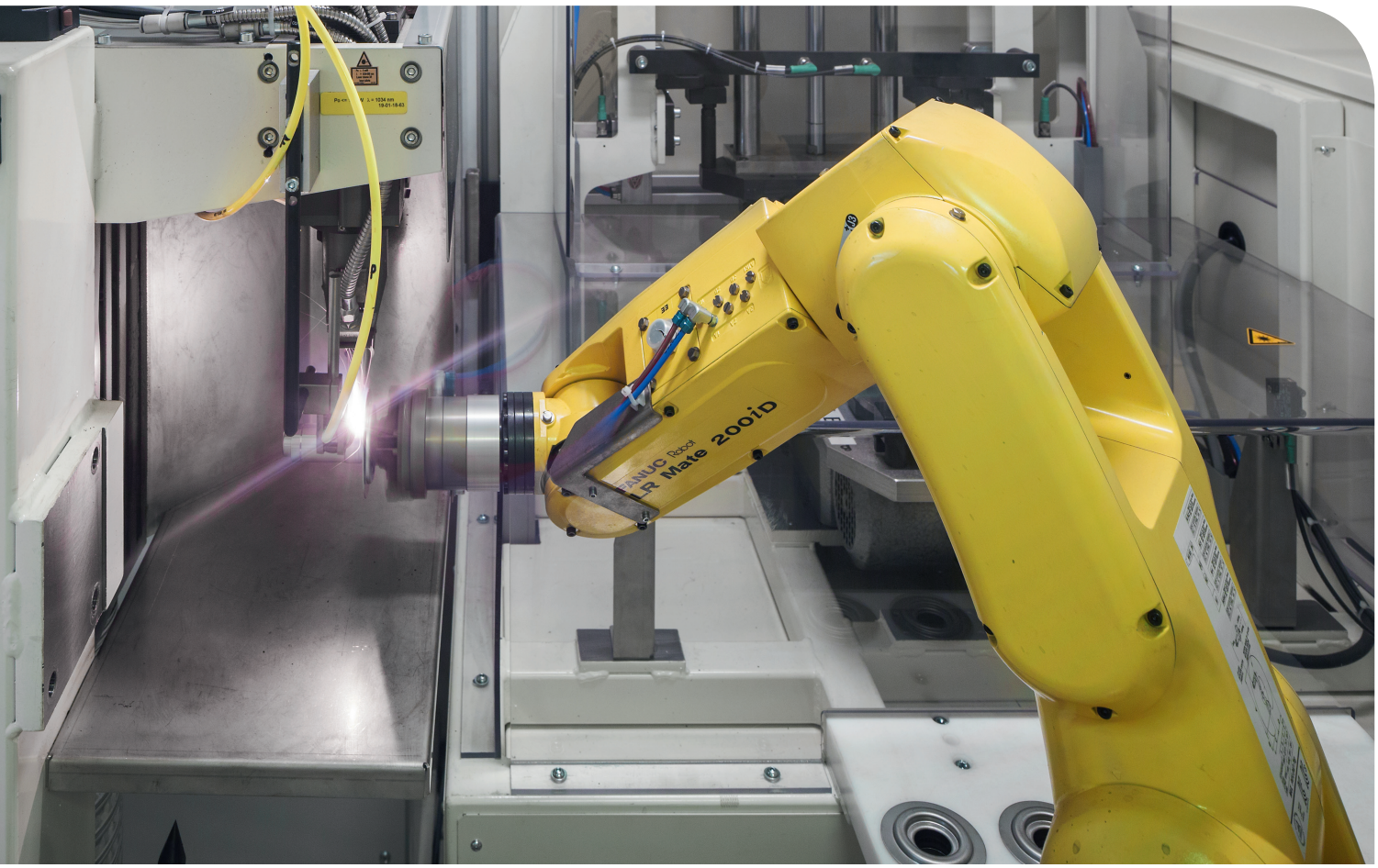
The Hydraulic Group is composed of high performance thermoplastic materials, certified for direct contact with drinking water. Within these elements there are integrated components which enable the operation of the boiler, such as the 3 ways valve, different sensors (temperature, pressure, flow), safety valves, heat exchangers and the circulator. In particular, the integration of the latter is carried out in close collaboration between Bitron HVAC Systems and Wilo.

What characterizes the Hydraulic Group is an in- depth knowledge of the product and its applications; each component is developed, tested and qualified by Bitron HVAC Systems and Wilo in its final environment to make sure it can withstand the harshest field conditions. Each component is manufactured in-house for a perfect traceability and quality control.

The Hydraulic Group is produced, assembled, tested and delivered to the customer ready to be mounted into the boiler. A wide choice of pumps for Combi and Bithermic versions and multi plate heat exchangers for Combi versions respond to your needs.

Integration of components designed, developed and produced by Bitron HVAC Systems and Wilo will guarantee the customer reduced lead times, low stock volumes and a single main reliable partner.

BITRON HVAC systems



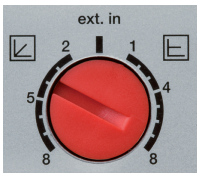
Wilo-Stratos PARA,
optimised for every need.

The Stratos PARA was the first high-efficiency pump made by Wilo OEM, launched in 2006. Its scope of functions is precisely tailored to the individual requirements of the market and customer. With an application range from -10 to +110 °C, it is suitable for heating, air-conditioning and cooling systems. The cataphoretic coating provides perfect protection from corrosion.

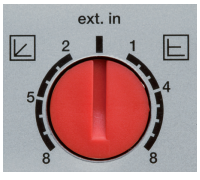
Special features/benefits:

- → Functions specially adapted to the demands of the OEM market
- → Space-saving design
- → High starting torque for reliable start-up
- → Reliability and comfort during installation and operation
- → Standard delivered with a cable for an easy electrical connection
- → Optionally with a thermal insulation or cooling shell

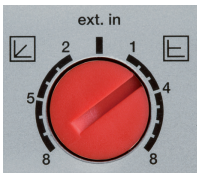
Convenient setting of the pump via the Red Knob technology



Δp-v
Local control with variable differential pressure at the pump



Ext. in
Power output adjustement by overriding controller (0–10 V or PWM)

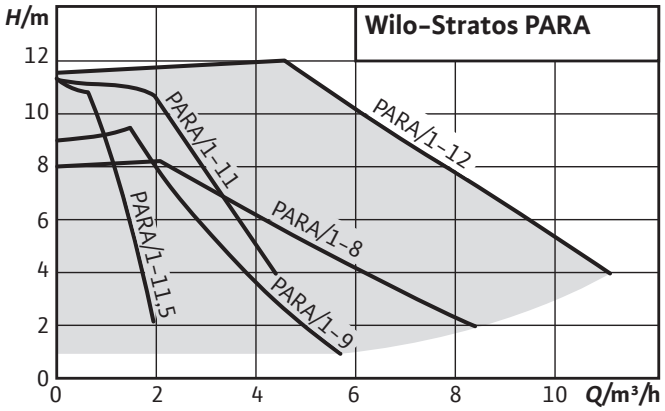


Δp-c
Local control with constant differential pressure at the pump

Wilo-Stratos PARA
Heating and cooling, solar thermal and geothermal

The Stratos PARA range offers a wide variety of hydraulics and functionalities in order to provide the right solution for each application.

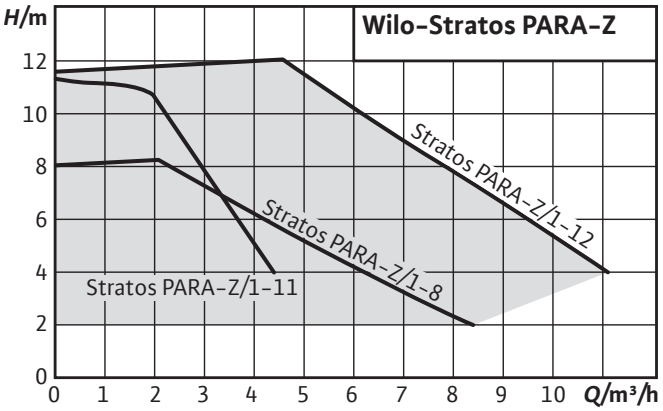
Technical data	
Fluid temperature	-20 °C to +95 °C
Ambient temperature	0 °C to +70 °C
Control mode (Red Knob)	Δ p-v, Δ p-c
External control (Red Knob)	0–10 V signal PWM1 and PWM2 signal
Range of hydraulics	8/9/11/11.5/12 m
Size	180 mm (130 mm) DN 25/DN 30
EEI	≤ 0.23



Wilo-Stratos PARA-Z
Domestic hot water circulation

For higher domestic hot water performances, Wilo offers on top of the Yonos PARA-Z, the Stratos PARA-Z circulator range designed for sanitary use.

Technical data	
Fluid temperature	-10 °C to +80 °C (+110 °C)
Ambient temperature	+25 °C to +65 °C
Control mode (Red Knob)	Δ p-v, Δ p-c
External control	0–10 V signal PWM1 and PWM2 signal
Range of hydraulics	8/11/12 m
Size	180 mm DN 25/DN 30
EEI	≤ 0.23



Q-Limit
EEI ≤ 0.20

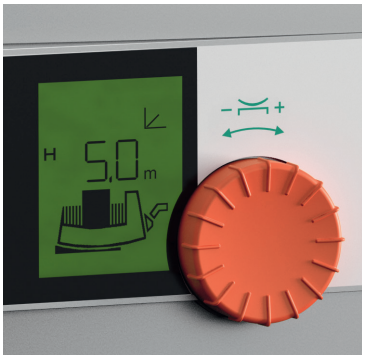
Wilo-Stratos,
the diverse one.

The Wilo-Stratos impresses with its compact construction. The proven Red Knob technology makes setting and commissioning easier. Adjustable control modes in connection with the Q-Limit function ensure a needs-based system supply. The enhanced display improves readability and ease of operation.

Special features/benefits:

- → Energy savings through greater system efficiency with the Q-Limit function (volume flow limiter)
- → Improved Energy Efficiency Index (EEI) ≤ 0.20 for all single pumps.
- → Optimised display for better readability and operation
- → Space-saving installation due to compact design and location-dependent LC display
- → Modular concept for connection of all conventional bus systems (e.g. Modbus, BACnet, CAN, LON and PLR)
- → Tried and tested quality and reliability

The Red Knob technology display that can be adjusted regardless of position



IR-Monitor

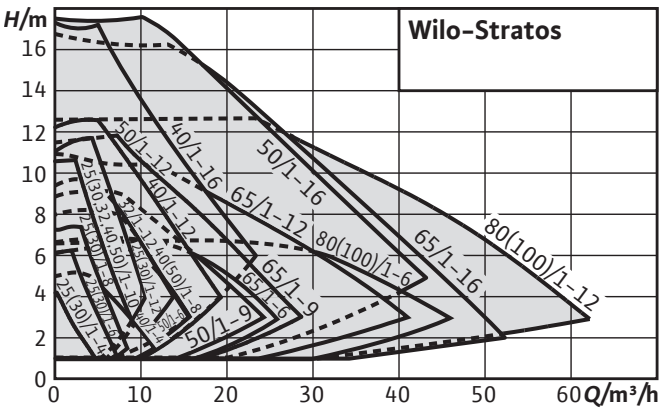
The plastic sealing tube prevents eddy-current losses

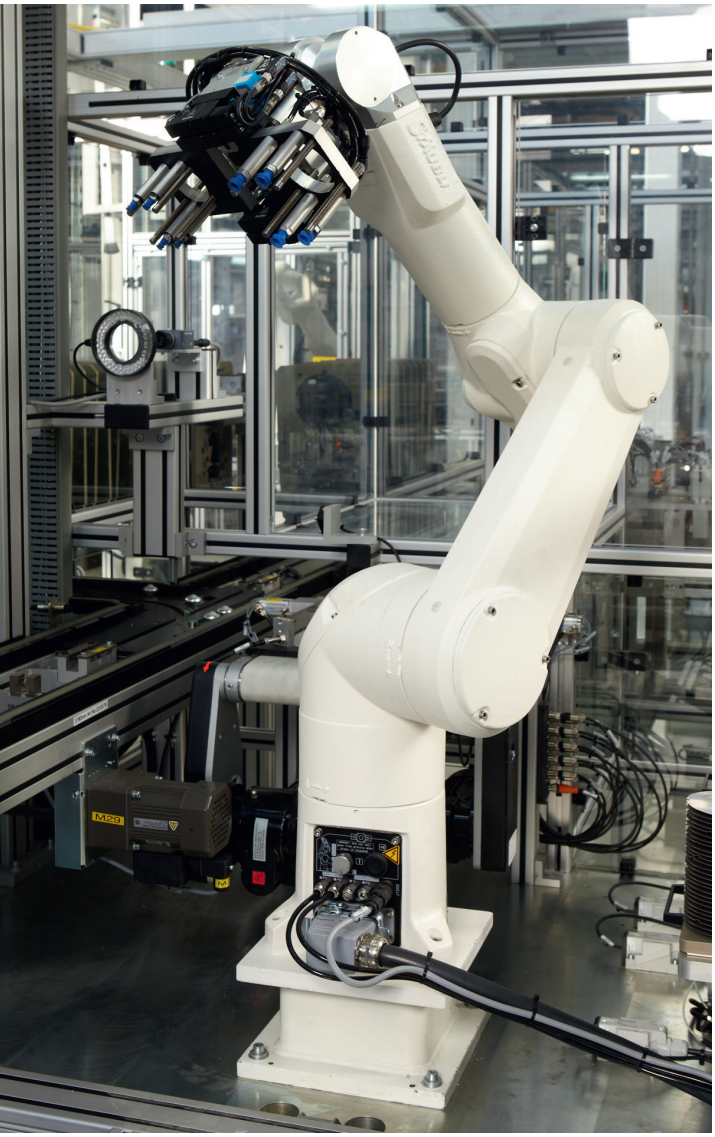
IR-Stick
(in connection with a computer)

Wilo-Stratos
Heating and cooling

Glandless circulation pump with threaded connection or flange connection, EC motor with automatic power adjustment. Hot-water heating systems of all kinds, air-conditioning systems, closed cooling circuits, industrial circulation systems.

Technical data	
Fluid temperature	-10 °C to +110 °C
Max. volume flow Q	62 m³/h
Max. delivery head H	17.5 m
Mains connection	1~230 V, 50/60 Hz
Control mode (Red Knob)	Δ p-v, Δ p-c, Δ p-T, Q-Limit
Protection class	IP X4D
Size	Rp 1 to DN 100
Rated pressure	6/10 bar or 6 bar (special version: 10 bar or 16 bar)
EEI	≤ 0.20

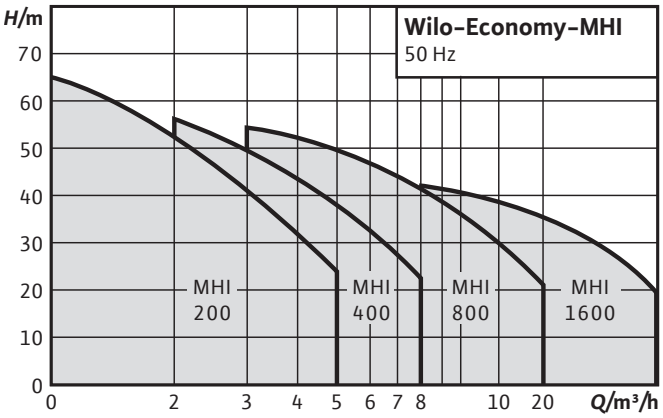




Wilo-Economy MHI
Heating and cooling, air-conditioning, domestic hot water circulation, hydraulic network maintenance

Non-self-priming multistage pump. Water supply and pressure boosting, commerce and industry, cooling water circulation systems, washing and sprinkling systems.

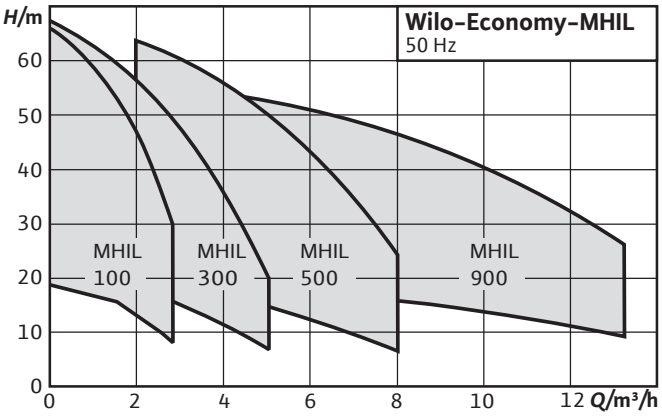
Technical data	
Fluid temperature	-15 to +110 °C
Max. volume flow Q	25 m³/h
Max. delivery head H	70 m
Mains connection	1~: 50 Hz 230 V, 60 Hz 220 V 3~: 50 Hz 400 V, 60 Hz 380/460 V
Protection class	1~: IP X4; 3~: IP 54
Size	Rp 1, Rp 1 ¼ or Rp 1 ½
Rated pressure	10 bar



Wilo-Economy MHIL
Heating and cooling, air-conditioning, hydraulic network maintenance

Non-self-priming multistage pump. Medium air conditioning, cooling circuits. Heating and hydraulic network maintenance systems.

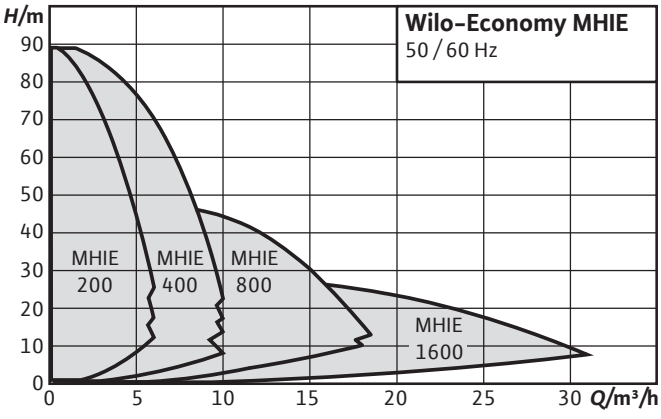
Technical data	
Fluid temperature	-15 to +90 °C
Max. volume flow Q	13 m³/h
Max. delivery head H	68 m
Mains connection	1~: 50 Hz 230 V, 60 Hz 220 V 3~: 50 Hz 400 V, 60 Hz 380/460 V
Protection class	1~: IP X4; 3~: IP 54
Size	Rp 1, Rp 1 ¼ or Rp 1 ½
Rated pressure	10 bar



Wilo-Economy MHIE
Heating and cooling, air-conditioning

Non-self-priming multistage pump with frequency converter. Air conditioning, cooling water circulation systems. Heating and hydraulic network maintenance systems.

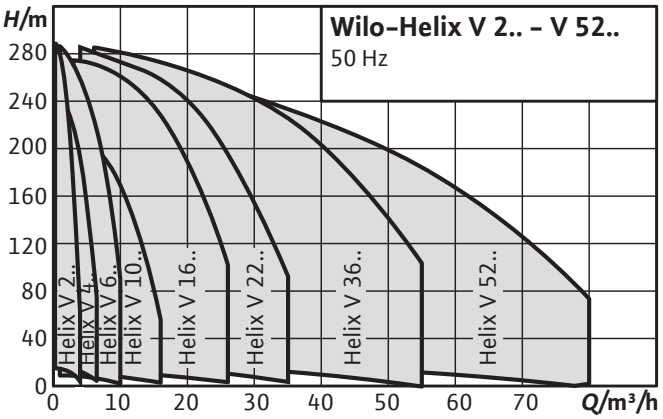
Technical data	
Fluid temperature	-15 to +110 °C
Max. volume flow Q	36 m³/h
Max. delivery head H	84 m
Mains connection	1~: 50/60 Hz 230 V 3~: 50/60 Hz from 380 V -10 % to 440 V + 6%
Protection class	IP 54
Size	Rp 1, Rp 1 ¼, Rp 1 ½ or Rp 2
Rated pressure	10 bar



Wilo-Helix V
Heating and cooling, domestic hot water circulation, hydraulic network maintenance

Non-self-priming, high-efficiency multistage high-pressure centrifugal pump in vertical design with in-line connections. Industrial circulation systems, process water, cooling water circulation systems, boilers and steam boilers, fire extinguishing systems.

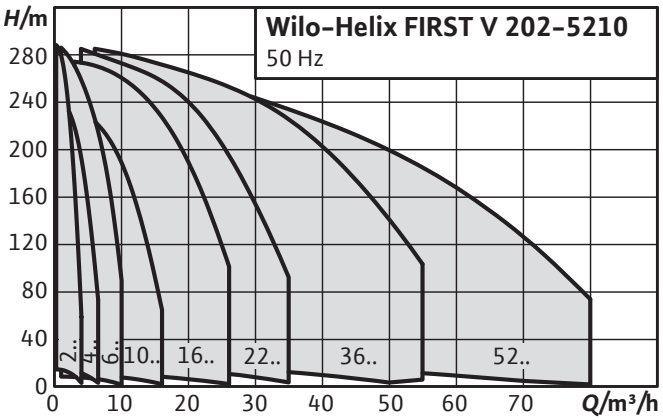
Technical data	
Fluid temperature	-30 to +120 °C
Max. volume flow Q	80 m³/h
Max. delivery head H	280 m
Mains connection	3~: 50 Hz 400 V, 60 Hz 380/460 V
Protection class	IP 55
Size	PN 16 and PN 25
Rated pressure	16/25/30 bar
MEI	≥ 0.5



Wilo-Helix FIRST V
Heating and cooling, hydraulic network maintenance

Non-self-priming, high-efficiency multistage high-pressure centrifugal pump in vertical design with in-line connections. Focus on OEM applications. Industrial circulation systems, process water, cooling water circulation systems, boilers and steam boilers, fire extinguishing systems.

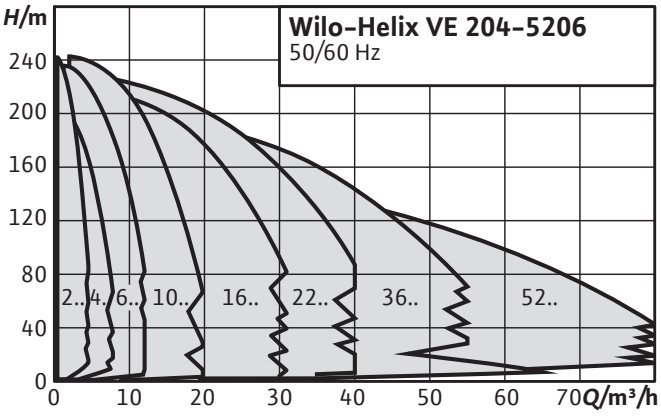
Technical data	
Fluid temperature	-20 to +120 °C
Max. volume flow Q	80 m³/h
Max. delivery head H	140 m
Mains connection	3~: 50 Hz 400 V, 60 Hz 380/460 V
Protection class	IP 55
Size	PN 16/PN 25/PN 30
Rated pressure	16/25/30 bar
MEI	≥ 0.5



Wilo-Helix VE
Heating and cooling, air-conditioning

Non-self-priming, high-efficiency multistage high-pressure centrifugal pump with frequency converter in vertical design with in-line connections. Industrial circulation systems, process water, cooling water circulation systems, boilers and steam boilers, fire extinguishing systems.

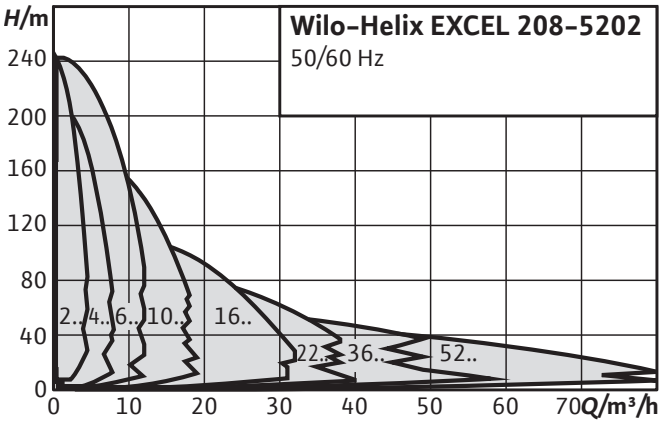
Technical data	
Fluid temperature	-30 to +120 °C
Max. volume flow Q	80 m³/h
Max. delivery head H	240 m
Mains connection	3~ 50/60 Hz from 380 V -10% to 440 V +6%
Protection class	IP 55
Size	PN 16 and PN 25
Rated pressure	16/25 bar
MEI	≥ 0.5



Wilo-Helix EXCEL
Heating and cooling

Non-self-priming, highly efficient fully stainless-steel high-pressure multistage centrifugal pump with EC motor in vertical design with integrated high-efficiency drive and in-line connections. Water supply and pressure boosting, industrial circulation systems, process water, cooling water circulation systems, fire fighting systems, washing systems and irrigation.

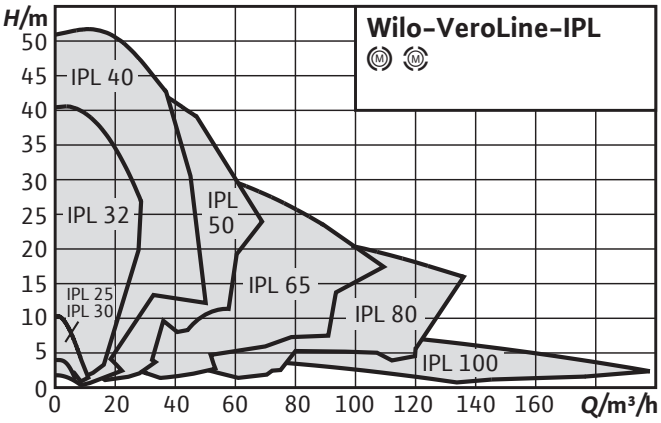
Technical data	
Fluid temperature	-30 to +120 °C
Max. volume flow Q	58 m³/h
Max. delivery head H	240 m
Mains connection	3~ 50/60 Hz from 380 V -10% to 460 V +10%
Protection class	IP 55
Size	PN 16 and PN 25
Rated pressure	16/25 bar
MEI	≥ 0.7



Wilo-VeroLine-IPL
Heating and cooling, air-conditioning

Glanded pump in in-line design with screwed connection or flange connection – long shaft motor. Focus on OEM applications. Pumping of heating water (acc. to VDI 2035), cold or chilled water and water/glycol mixtures without abrasive substances in heating, cold water and cooling systems.

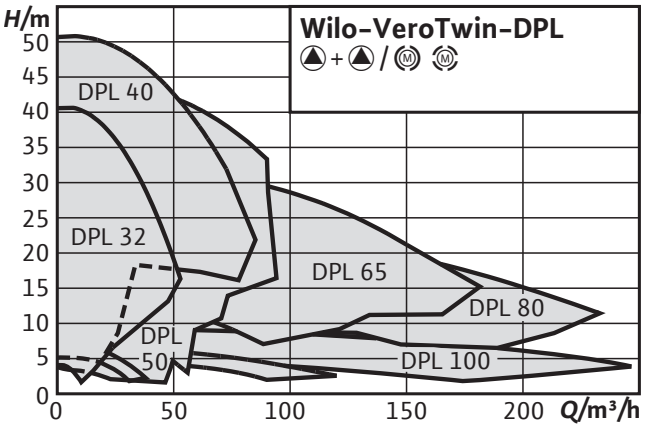
Technical data	
Fluid temperature	-20 °C to +120 °C
Max. volume flow Q	195 m³/h
Max. delivery head H	52 m
Mains connection	3~400 V, 50 Hz
Protection class	IP 55
Size	Rp 1 to DN 100
Rated pressure	10 bar (special version: 16 bar)
MEI	≥ 0.4



Wilo-VeroTwin-DPL
Heating and cooling, air-conditioning

Glanded double pump in in-line design with screwed connection or flange connection – long shaft motor. Focus on OEM applications. Pumping of heating water (acc. to VDI 2035), cold or chilled water and water/glycol mixtures without abrasive substances in heating, cold water and cooling systems.

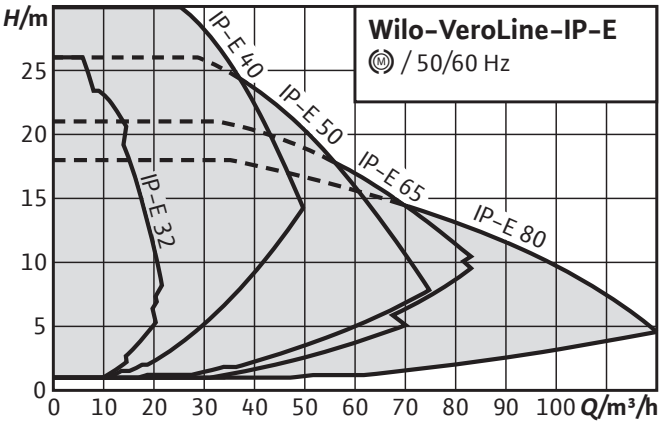
Technical data	
Fluid temperature	-20 °C to +120 °C
Max. volume flow Q	245 m³/h
Max. delivery head H	52 m
Mains connection	3~400 V, 50 Hz
Protection class	IP 55
Size	DN 32 to DN 100
Rated pressure	10 bar (special version: 16 bar)
MEI	≥ 0.4



Wilo-VeroLine-IP-E
Heating and cooling, air-conditioning

Electronically controlled glanded single pump in in-line design with flange connection and automatic power adjustment. Pumping of heating water (acc. to VDI 2035), cold water and water/glycol mixtures without abrasive substances in heating, cold water and cooling systems.

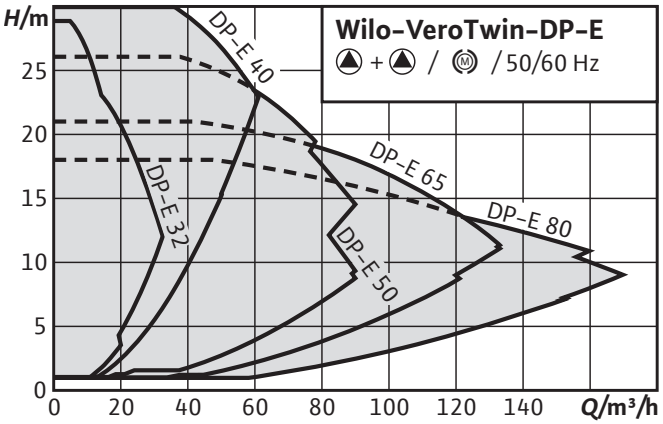
Technical data	
Fluid temperature	-20 °C to +120 °C
Max. volume flow Q	120 m³/h
Max. delivery head H	30 m
Mains connection	3~ 50/60 Hz from 380 V -6% to 440 V +6%
Protection class	IP 55
Size	DN 32 to DN 80
Rated pressure	10 bar (special version: 16 bar)
MEI	≥ 0.4

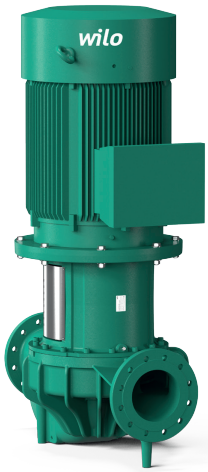


Wilo-VeroTwin-DP-E
Heating and cooling, air-conditioning

Electronically controlled glanded double pump in in-line design with flange connection and automatic power adjustment. Pumping of heating water (acc. to VDI 2035), cold water and water/glycol mixtures without abrasive substances in heating, cold water and cooling systems.

Technical data	
Fluid temperature	-20 °C to +120 °C
Max. volume flow Q	170 m³/h
Max. delivery head H	30 m
Mains connection	3~ 50/60 Hz from 380 V -6% to 440 V +6%
Protection class	IP 55
Size	DN 32 to DN 80
Rated pressure	10 bar (special version: 16 bar)
MEI	≥ 0.4

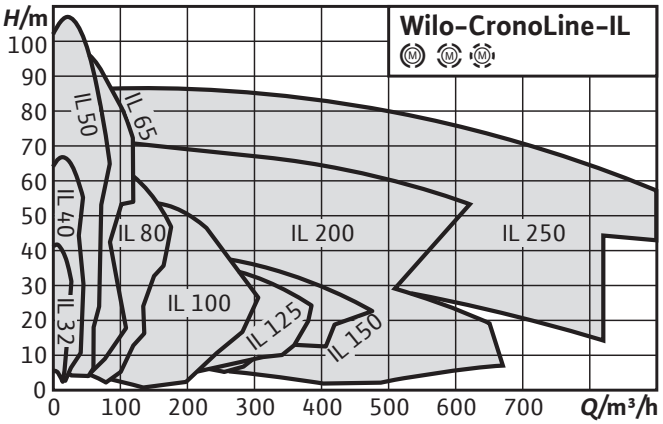




Wilo-CronoLine-IL
Heating and cooling, air-conditioning

Glanded pump in in-line design with flange connection. Pumping of heating water (acc. to VDI 2035), cold water and water/glycol mixtures without abrasive substances in heating, cold water and cooling systems.

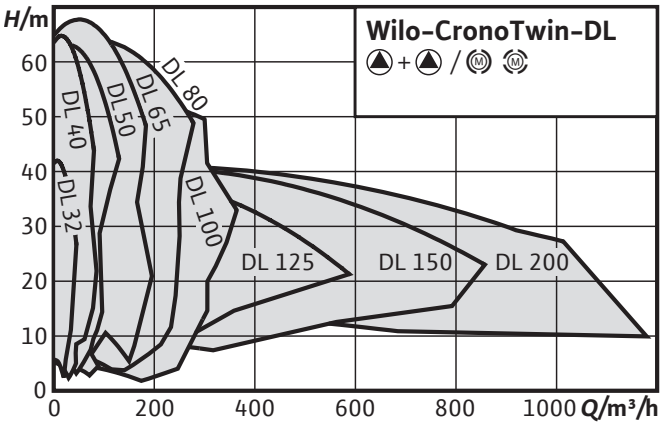
Technical data	
Fluid temperature	-20 °C to +140 °C
Max. volume flow Q	900 m³/h
Max. delivery head H	110 m
Mains connection	3~: 50 Hz 400 V, 60 Hz 380/460 V
Protection class	IP 55
Size	DN 32 to DN 250
Rated pressure	16 bar
MEI	≥ 0.4



Wilo-CronoTwin-DL
Heating and cooling, air-conditioning

Glanded double pump in in-line design with flange connection. Pumping of heating water (acc. to VDI 2035), cold water and water/glycol mixtures without abrasive substances in heating, cold water and cooling systems.

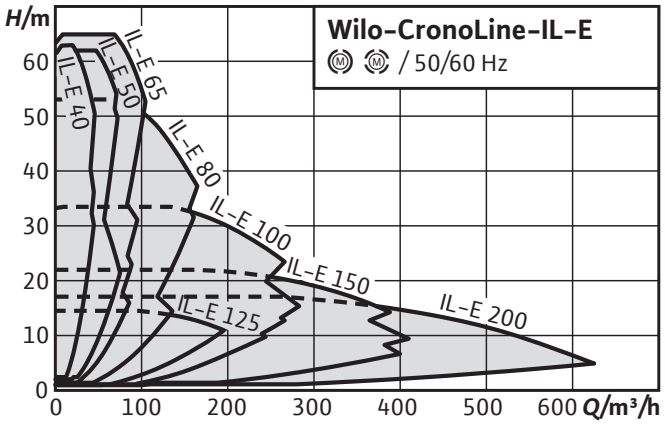
Technical data	
Fluid temperature	-20 °C to +140 °C
Max. volume flow Q	1,170 m³/h
Max. delivery head H	67 m
Mains connection	3~: 50 Hz 400 V, 60 Hz 380/460 V
Protection class	IP 55
Size	DN 32 to DN 200
Rated pressure	16 bar
MEI	≥ 0.4



Wilo-CronoLine-IL-E
Heating and cooling, air-conditioning

Electronically controlled glanded single pump in in-line design with flange connection and automatic power adjustment. Pumping of heating water (acc. to VDI 2035), cold water and water/glycol mixtures without abrasive substances in heating, cold water and cooling systems.

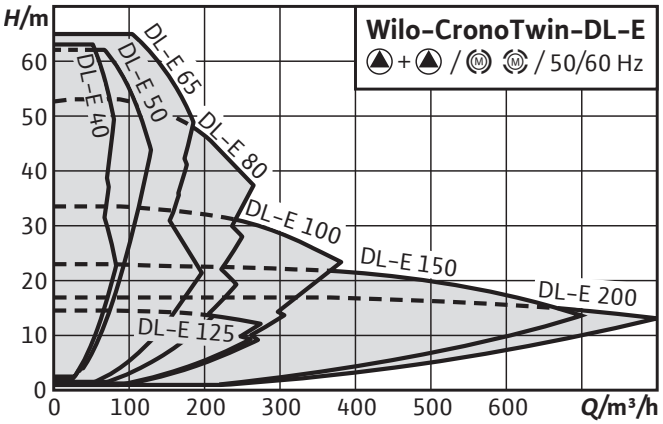
Technical data	
Fluid temperature	-20 °C to +140 °C
Max. volume flow Q	900 m³/h
Max. delivery head H	110 m
Mains connection	3~ 50/60Hz from 380 V -6% to 440 V +6%
Protection class	IP 55
Size	DN 40 to DN 200
Rated pressure	16 bar
MEI	≥ 0.4



Wilo-CronoTwin-DL-E
Heating and cooling, air-conditioning

Electronically controlled glanded double pump in in-line design with flange connection and automatic power adjustment. Pumping of heating water (acc. to VDI 2035), cold water and water/glycol mixtures without abrasive substances in heating, cold water and cooling systems.

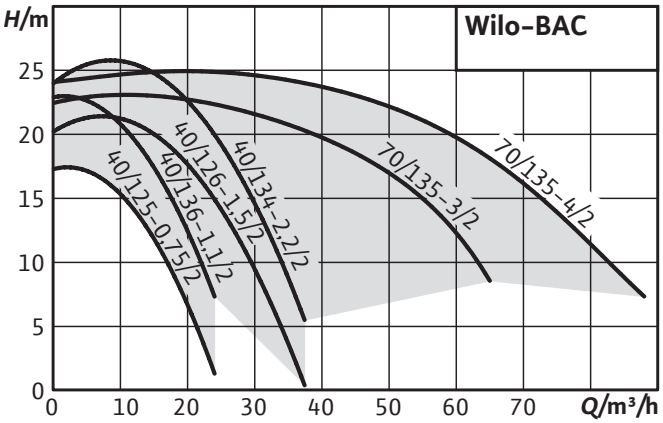
Technical data	
Fluid temperature	-20 °C to +140 °C
Max. volume flow Q	800 m³/h
Max. delivery head H	63 m
Mains connection	3~ 50/60Hz from 380 V -6% to 440 V +6%
Protection class	IP 55
Size	DN 40 to DN 200
Rated pressure	16 bar
MEI	≥ 0.4

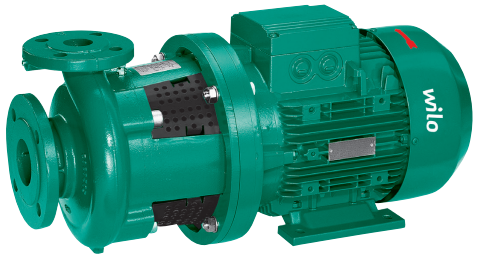


Wilo-BAC
Air-conditioning

Glanded pump in monobloc design with screwed connection or Victaulic connection. Product focus for OEM Chiller manufacturer. For circulating cooling water, cold water, water-glycol mixtures and other fluids without abrasive substances for Chillers, cooling towers, free cooling.

Technical data	
Fluid temperature	-15 °C to +60 °C
Max. volume flow Q	81 m³/h
Max. delivery head H	25 m
Mains connection	3~400 V, 50 Hz
Protection class	IP 54
Size	G2/G1½ or Victaulic 2"/3"
Rated pressure	10 bar
MEI	≥ 0.6

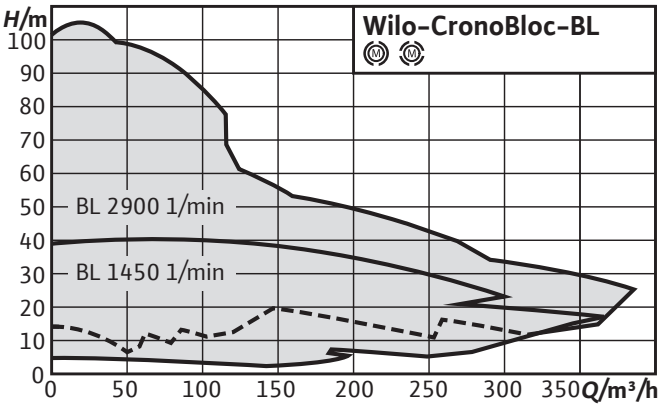


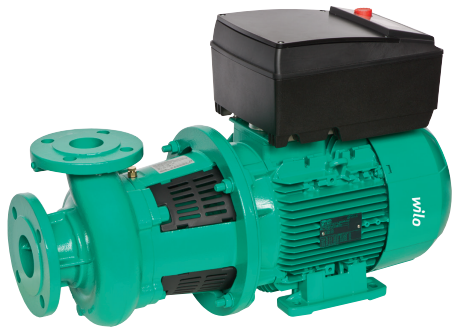


Wilo-CronoBloc-BL
Heating and cooling, air-conditioning

Glanded pump in block design with flange connection. For pumping heating water (in accordance with VDI 2035), water-glycol mixtures, cooling water and cold water without abrasive substances in heating, cold water and cooling water systems.

Technical data	
Fluid temperature	-20 °C to +140 °C
Max. volume flow Q	377 m³/h
Max. delivery head H	105 m
Mains connection	3~400 V, 50 Hz
Protection class	IP 55
Size	DN 32 to DN 125
Rated pressure	16 bar
MEI	≥ 0.4

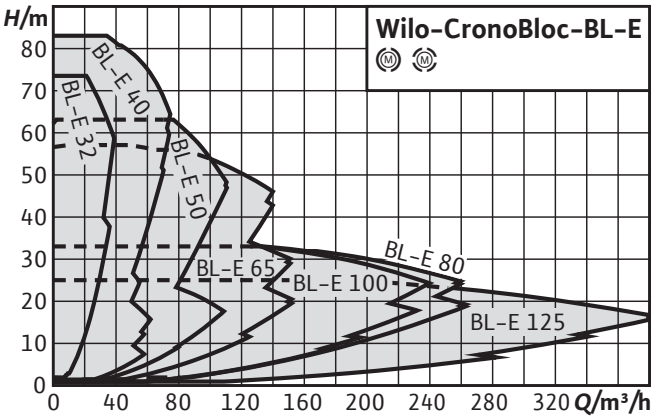




Wilo-CronoBloc-BL-E
Heating and cooling, air-conditioning

Electronically controlled glanded single pump in monobloc design with flange connection and automatic power adjustment. Pumping of heating water (acc. to VDI 2035), cold water and water/glycol mixtures without abrasive substances in heating, cold water and cooling systems.

Technical data	
Fluid temperature	-20 °C to +140 °C
Max. volume flow Q	380 m³/h
Max. delivery head H	85 m
Mains connection	3~ 50/60Hz from 380 V -6% to 440 V +6%
Protection class	IP 55
Size	DN 32 to DN 125
Rated pressure	16 bar
MEI	≥ 0.4



Wilo-Stratos GIGA,
the powerful one.

The Wilo-Stratos GIGA impresses with an innovative use of materials and the motor technology High-Efficiency Drive (HED). The optimally adapted hydraulics and integrated power control ensures the best possible overall efficiency levels.

Special features/benefits:

- → Innovative high-efficiency pump for maximum total-system efficiency based on a new Wilo glanded design
- → High-efficiency EC motor (degrees of efficiency above IE4 class limit values acc. to IEC 60034-30)
- → Highly efficient hydraulics, optimally adapted to the EC motor technology, with optimised efficiency, minimum efficiency index (MEI) ≥ 0.7 according to ErP Directive 2009/125/EC [Commission Regulation (EU) 547/2012]
- → Control range is up to three times higher than that of conventional electronically controlled pumps
- → Optional interfaces for bus communication using plug-in IF-Modules

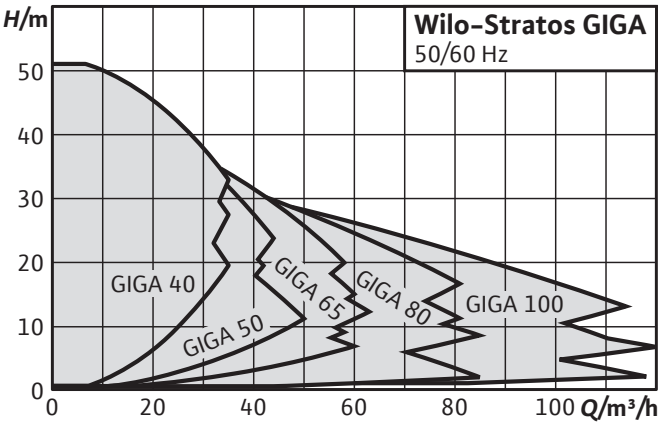
Easy-to-read display with Red Knob technology

Flexible incorporation into building automation using optionally integrable interface modules

Wilo-Stratos GIGA
Heating and cooling, air-conditioning

High-efficiency inline pump with EC motor and electronic duty adaptation in glanded construction. Version as single-stage low-pressure centrifugal pump with flange connection and mechanical shaft seal. Pumping of heating water (acc. to VDI 2035), cold water and water/glycol mixtures without abrasive substances in heating, cold water and cooling systems.

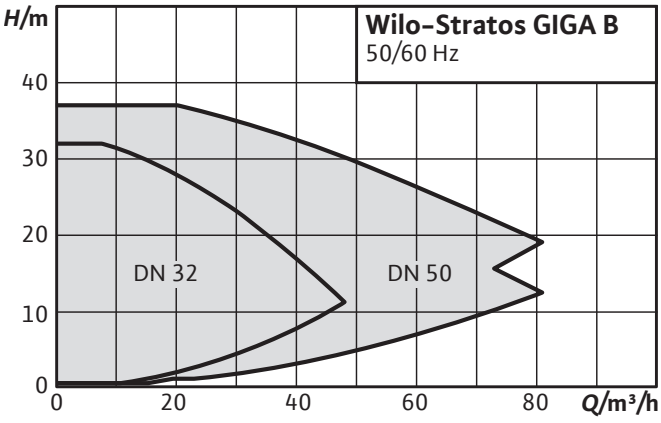
Technical data	
Fluid temperature	-20 °C to +140 °C
Max. volume flow Q	120 m³/h
Max. delivery head H	52 m
Mains connection	3~ 50/60 Hz from 380 V -6% to 480 V +10%
Protection class	IP 55
Size	DN 40 to DN 100
Rated pressure	16 bar up to +120 °C, 13 bar up to +140 °C
MEI	≥ 0.7



Wilo-Stratos GIGA B
Heating and cooling, air-conditioning

High-efficiency monobloc pump with EC motor and electronic power adjustment in glanded pump design Version as single-stage low-pressure centrifugal pump with flange connection and mechanical shaft seal. Pumping of heating water (acc. to VDI 2035), cold water and water/glycol mixtures without abrasive substances in heating, cold water and cooling systems.

Technical data	
Fluid temperature	-20 °C to +140 °C
Max. volume flow Q	120 m³/h
Max. delivery head H	52 m
Mains connection	3~ 50/60 Hz from 380 V -6% to 480 V +10%
Protection class	IP 55
Size	DN 32/DN 50
Rated pressure	16 bar up to +120 °C, 13 bar up to +140 °C
MEI	≥ 0.7



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