

Pioneering for You

wilo

*Information for OEM Solutions*

**Thinking ahead together –  
for your success.**

OEM Solutions.





## We make your journey into the future an easy one.



### 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 Messingwarenfabrik 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.

### An original equipment manufacturer with a detailed understanding of your business.

With OEM Solutions, what is visionary is just a step away from reality. As the leading original equipment manufacturer, we see ourselves as part of your business and we know exactly how crucial your processes are. We work with you to develop customised innovative solutions making you a pioneer in your market. We produce these solutions for you at the time you choose, to sustainable, top quality. This will benefit your entire business. From senior management to purchasing. From logistics to research and development. Thanks to highly committed teamwork for your success.





Imagine that the competitive edge in the market was exclusively yours.





## OEM Solutions. Imagine you had a partner who fully understood your workflow.

For us, partnership is about having such a thorough understanding of you and your business that we are perfectly placed to pave the way for your success. We want to speak exactly the same language as you. We want to be familiar with every detail of your processes. In this way, we can develop the right expertise, which enables us to partner with you to develop tailor-made solutions.

With our passion for your business, our many years of experience and our extensive range of products, we make it easy for you to win over the market.

### **Every aspect of your business will benefit from this thorough understanding.**

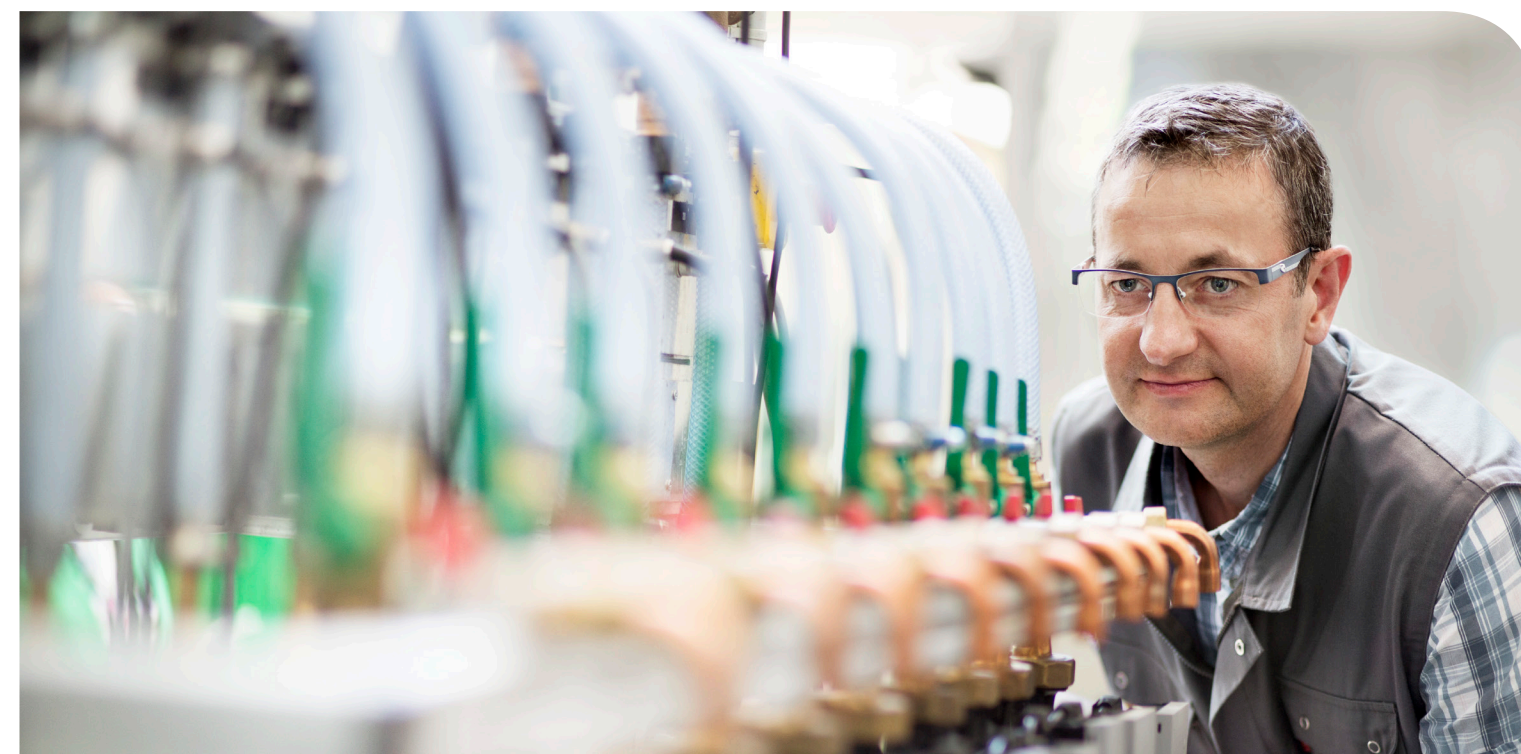
The success of our customers is due to the way that each area of responsibility has been able to easily attain its specific requirements and goals. Our style of teamwork is geared up to facilitate this. It enables your top-level managers to pursue visionary goals. It means your operations manager can rely on smooth processes. Your research and development staff can use innovative, state-of-the-art solutions. Your sales team can use exact prices when performing calculations, thus ensuring

cost certainty. Your engineers can get excited about highly efficient solutions. And your quality management team will have a reliable process guarantee.

### **Rely on first-class expertise. From the product through to applications.**

We have around 500 experienced and skilled employees who put their efforts into developing excellent solutions. Together with and on behalf of our customers, they consider how to exceed the status quo. This approach involves our innovative research and development teams and our experts in electronics and motor technology, as well as our versatile test laboratory and the extensive range of existing system modules and custom-developed integral system modules.

These aspects are foundational to the expertise from which you benefit during day-to-day collaboration. We can provide this level of quality because we focus on specific areas, which allows us to acquire especially detailed knowledge. This sharpens our ability to see the best possible solutions in the areas of heating, cooling, thermal solar technology, geothermal energy and sanitation.



### **Do you need sophisticated solutions? We make it easy for you.**

Around the world today, for instance, every second heating system is equipped with a Wilo pump. This shows that our collaborative approach of working together with customers to develop solutions is meeting the requirements of individuals. There are good reasons for this:

- **Development and production at one site.**  
This enables us to ensure that adjustments and modifications to a product can be made and implemented without delay.
- **All of the latest technologies.**  
A wide range of pump series featuring the latest technology. For almost any kind of application.
- **Exceptional knowledge of the market and application expertise.**  
To ensure that you can always access state-of-the-art technologies, we analyse market trends and the changes in individual customer requirements.
- **Make to order.**  
When we produce the solutions that we have developed with you, we work towards your desired schedule and provide top quality, lasting solutions.
- **Flexible logistics network.**  
By using customised logistics solutions to offer deliveries, we enable you to efficiently manage your production processes. In order to offer this service, we have a flexible transportation network consisting of selected partners.
- **Working together to guarantee lasting quality.**  
We work with you to check every step in the development and production process and to test the acoustics, noise and hydraulics of our products. We also guarantee that the products are constantly and professionally monitored while they are running.
- **We sharpen your knowledge.**  
Around the world, we pass on our OEM experience to our customers and offer system training. As part of this, we work with you to develop an extremely thorough understanding of the product quality and how this relates to its application.



Imagine you already  
had the solutions  
today that will be  
needed tomorrow.





Highly efficient pumps  
from OEM Solutions.  
**Imagine you could  
find a tailored solution  
for any application.**

We want to be able to offer you a tailor-made original equipment product for any kind of application.

Our exceptional market knowledge allows us to offer an extremely varied range of pump series and enables us to meet almost any requirements. We also offer custom-developed integral products.






In addition to their variety and powerful advantages, all of the series are of extremely high quality and have the highest possible levels of efficiency. They all use the latest technology and benefit from the full scope of Wilo's expertise. You also benefit from the security that is provided by the wide range of services offered.













### Products for residential applications.

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# Wilo-Para.

## The most reliable OEM pump.

With the new Wilo-Para a new generation of circulators for the OEM-business, installation and commissioning are very convenient thanks to its compact design, easy setup combined with predefined standard settings. To be able to serve the individual OEM-customers the comprehensive range consists of self-controlled pumps (Dp-v, Dp-c, n-constant) and external controlled pumps via IPWM or a LIN bus interface. Several smart functions are available via the Green Button concept supported by a unique LED user interface.

### Special features/benefits:

- Easy integration through backwards compatibility and compact design
- Maximum flexibility for the OEM achieved by late customisation of predefined settings
- Easy handling and commissioning thanks to Green Button Technology and a unique LED user interface
- High operational safety through clever operational functions like manual air venting, manual re-start function or return to factory settings
- Easy replacement thanks to front access to the signal connector, the pump data and to the motor fixing screws
- Up-to-date online product information accessible via QR code



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



Wilo-Para STG



Wilo-Para SC



Wilo-Para with iPWM 1/2 or LIN bus

### Wide range of pump housings





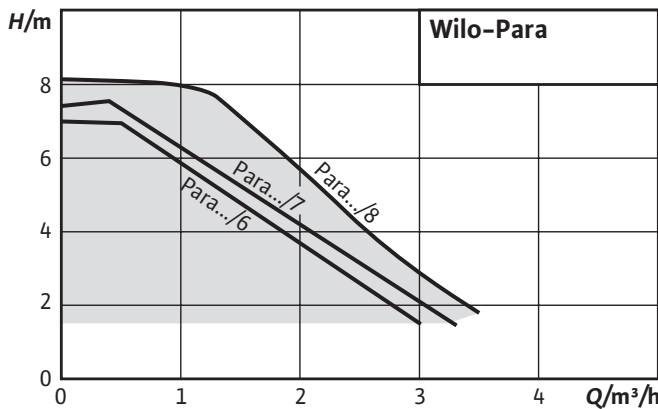


**Wilo-Para**  
Heating and cooling



Wilo-Para range 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 into a variety of customised composite housings.

Technical data	
Fluid temperature	0 °C to +95 °C
Ambient temperature	0 °C to +70 °C
SC, self-controlled, green push button	Δ p-v, Δ p-c, constant speed (Manual air venting and manual dejamming function)
External control	iPWM1 signal, LIN bus
Hydraulic performance	4/6/7/8 m
Size	130/180 mm DN 15/DN 25/DN 30
EEl	≤ 0.20

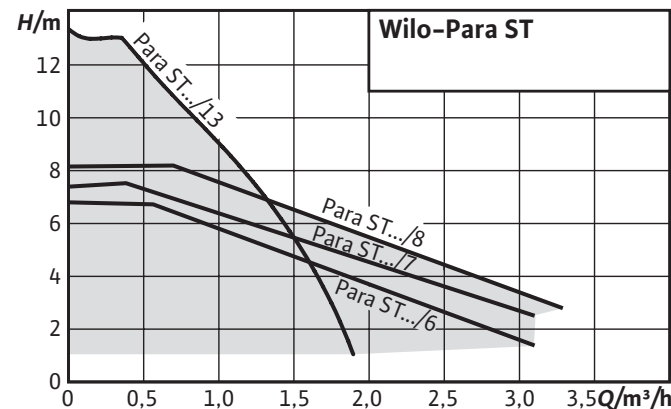


**Wilo-Para ST**  
Solar thermal energy



For solar thermal applications, the Para ST 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
SC, self-controlled, green push button	Δ p-v, Δ p-c, constant speed (Manual air venting and manual dejamming function)
External control	iPWM2 signal, LIN bus
Hydraulic performance	6/7/8/13 m
Size	130/180 mm DN 15/DN 25/DN 30
EEl	≤ 0.20

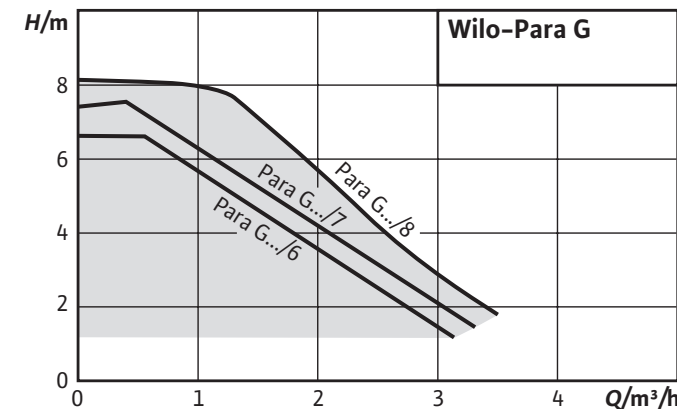


**Wilo-Para G**  
Geothermal energy



The Para G range offers circulators for geothermal (G) applications. The geothermal product range is equipped with a painted motor casing and corrosion resistant screws. 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
SC, self-controlled, green push button	Δ p-v, Δ p-c, constant speed (Manual air venting and manual dejamming function)
External control	iPWM1 signal, LIN bus
Hydraulic performance	6/7/8 m
Size	130/180 mm DN 15/DN 25/DN 30
EEl	≤ 0.20

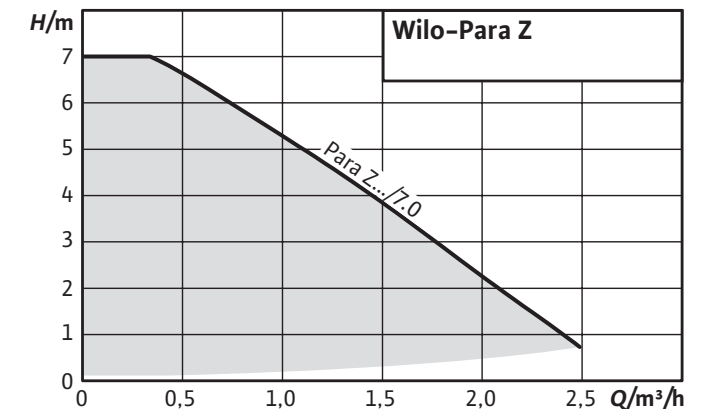


**Wilo-Para Z**  
Domestic hot water circulation



The 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 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
SC, self-controlled, green push button	Δ p-v, Δ p-c, constant speed (Manual air venting and manual dejamming function)
External control	iPWM2 signal, LIN bus
Hydraulic performance	6/7/8 m
Size	130/180 mm DN 15/DN 25





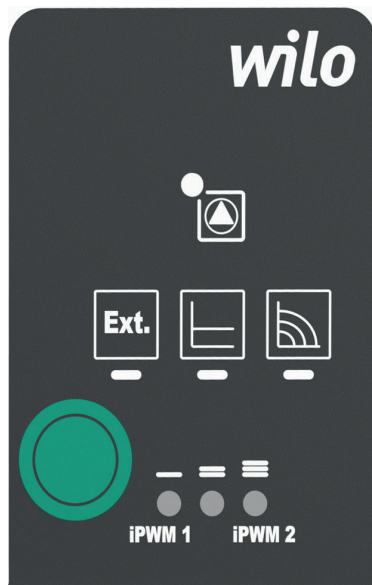


## Wilo-Para STG. The highly versatile one.

Glandless circulator with a cast iron pump housing and corrosion-protected motor housing and screws. EC motor with automatic power adjustment and self-protecting modes. Installation and commissioning are very convenient thanks to its compact design, easy setup combined with predefined standard settings. Several smart functions are available via the Green Button concept supported by a unique LED user interface. The one fits all solution which keeps your business running!

### Special features/benefits:

- One product for all applications
- Green push button for convenient settings
- LED user interface
- Manual air-venting routine and re-start function
- Reset to factory settings



Self controlled via green push button ( $\Delta p-v$ , constant speed, externally controlled by iPWM 1 and 2 signal)

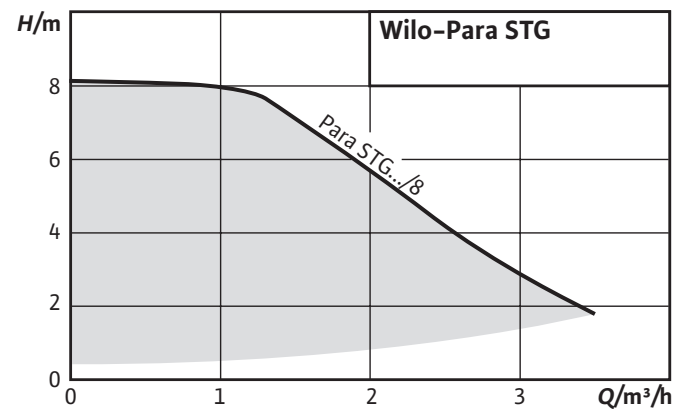


### Wilo- Para STG Heating and cooling, solar thermal and geothermal energy



#### Technical data

Fluid temperature	-20 °C to +110 °C (140 °C)
Ambient temperature	0 °C to 70 °C
SC, self-controlled, green push button	Ext, $\Delta p-v$ , constant speed
External control	iPWM1 and 2 signal
Hydraulic performance	8 m
Size	130/180 mm DN 15/DN 25/DN 30
EEI	≤ 0.20







## Wilo-Yonos Para High Flow. The AC replacement solution.

The Yonos Para High Flow 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 button  
( $\Delta p-v$ ,  $\Delta p-c$ , constant speed)

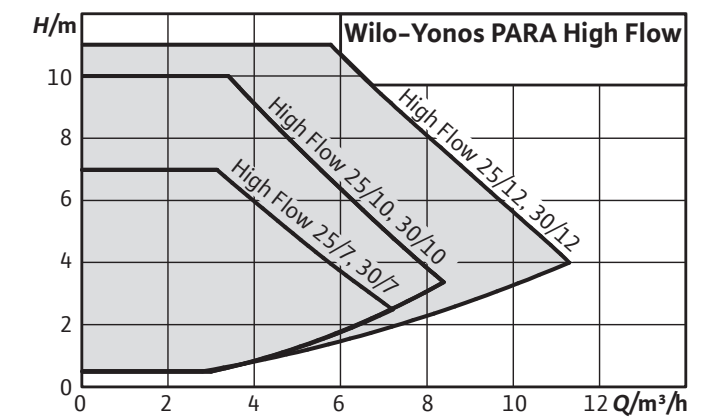


Broad application range thanks to permitted temperature range  $-20^{\circ}\text{C}$  to  $+110^{\circ}\text{C}$ .

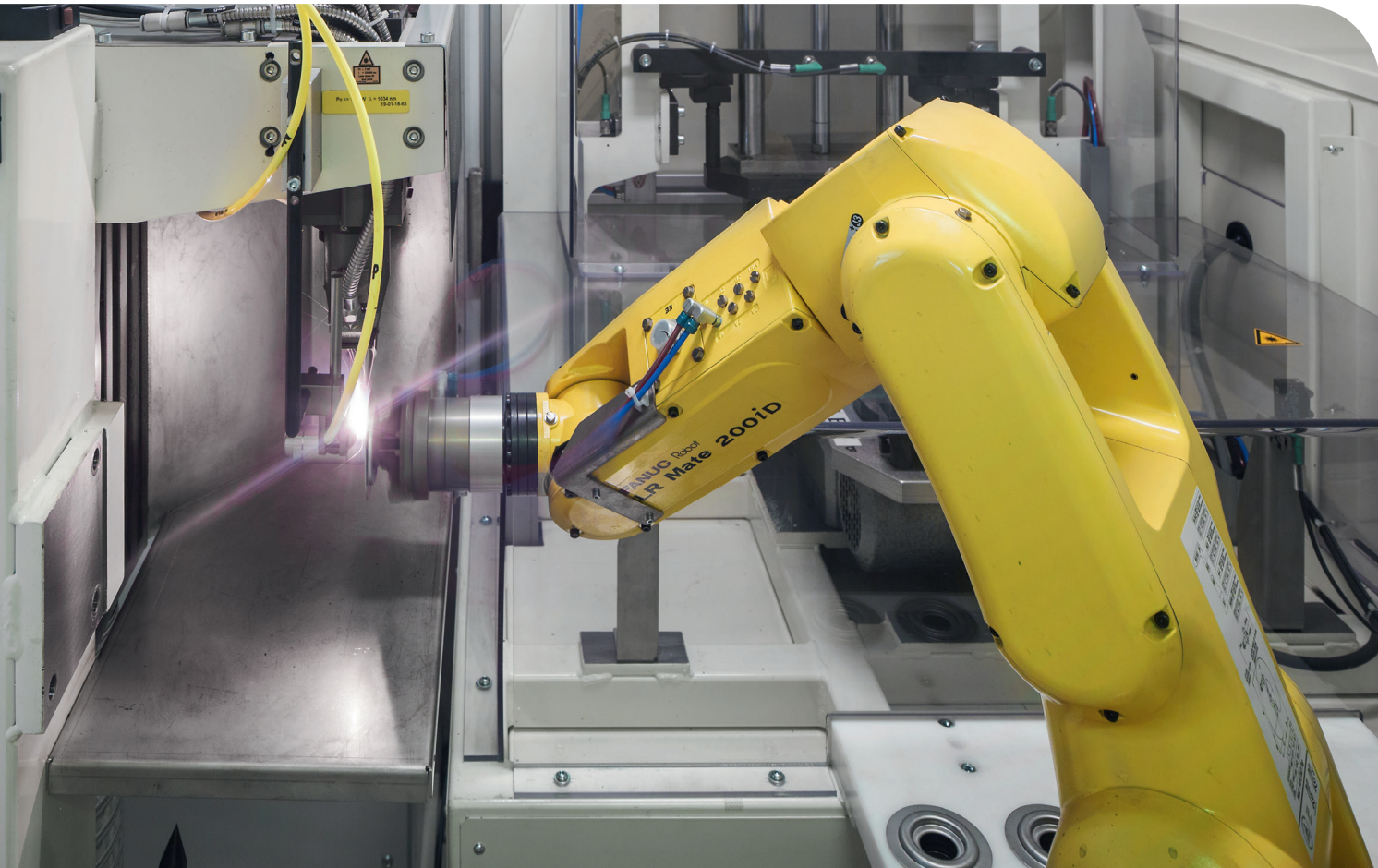
Wilo-Yonos Para High Flow  
Heating and cooling, solar thermal and geothermal energy



Technical data	
Fluid temperature	$-20^{\circ}\text{C}$ to $+110^{\circ}\text{C}$
Ambient temperature	$0^{\circ}\text{C}$ to $65^{\circ}\text{C}$
SC, self-controlled, red push button	$\Delta p-v$ , $\Delta p-c$ , constant speed
External control	-
Hydraulic performance	7/10/12 m
Size	180 mm DN 25/DN 30
EEl	$\leq 0.23$







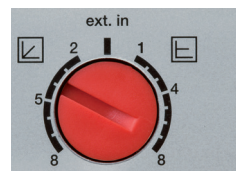
## Wilo-Stratos Para. Optimised for every need.

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 cathodic 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 Button Technology



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



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



**Ext. in**  
Power output adjustment by overriding controller (0-10 V or PWM)



**Wilo-Stratos Para**  
Heating and cooling, solar thermal and geothermal energy



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



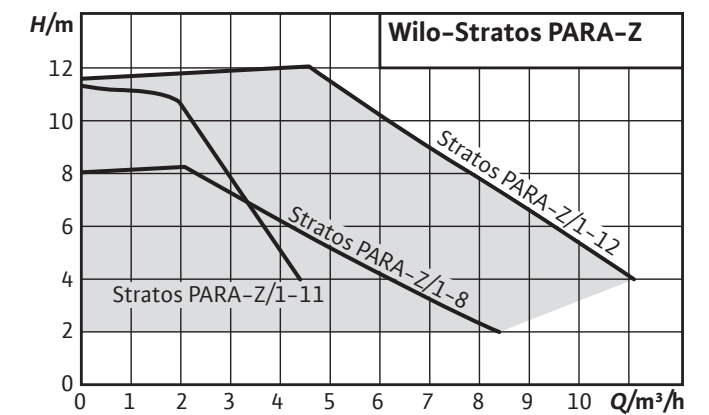
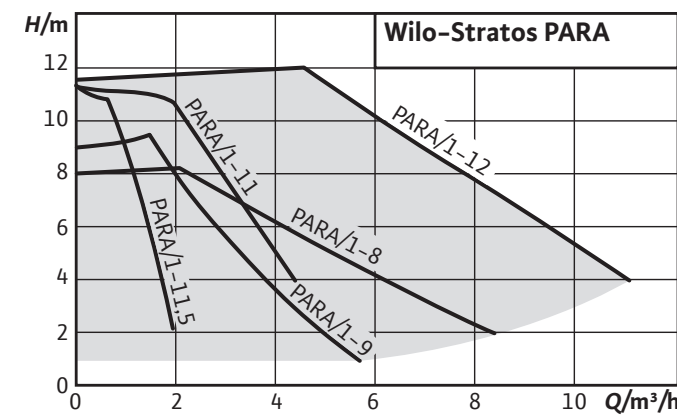
**Wilo-Stratos Para-Z**  
Domestic hot water circulation



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

Technical data	
Fluid temperature	-20 °C to +95 °C
Ambient temperature	0 °C to +70 °C
Control mode (red button)	Δ p-v, Δ p-c
External control (red button)	0-10 V signal PWM1 and PWM2 signal
Hydraulic performance	8/9/11/11.5/12 m
Size	180 mm (130 mm) DN 25/DN 30
EEl	≤ 0.23

Technical data	
Fluid temperature	-10 °C to +80 °C (+110 °C)
Ambient temperature	0 °C to 65 °C
Control mode (red button)	Δ p-v, Δ p-c
External control	0-10 V signal PWM1 and PWM2 signal
Hydraulic performance	8/11/12 m
Size	180 mm DN 25/DN 30
EEl	≤ 0.23







**Q-Limit**  
**EEI ≤ 0.20**

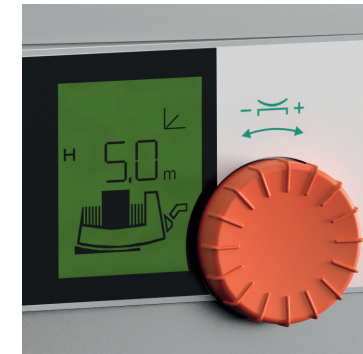
## Wilo-Stratos

### The diverse one.

The Wilo-Stratos impresses with its compact construction. The proven Red Button Technology makes settings 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 makes operation easier.

#### 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 Button 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

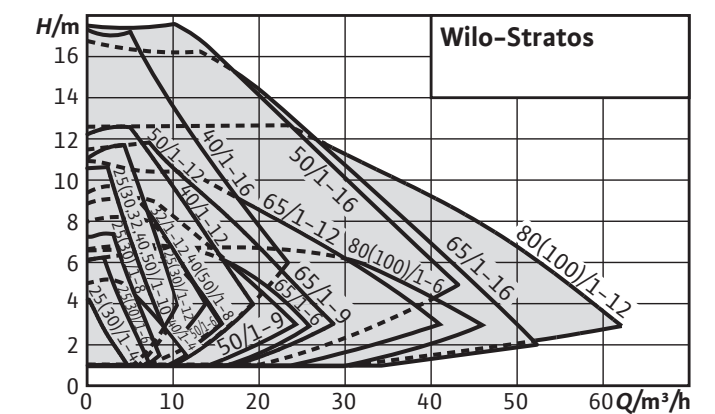
##### Heating and cooling



Glandless circulator 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 m <sup>3</sup> /h
Max. delivery head H	17.5 m
Mains connection	1~230 V, 50/60 Hz
Control mode (red button)	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-Plavis

### Your reliable condensate lifting unit.

Wilo-Plavis is a new range of small condensate lifting units of drainage systems in residential HVAC applications that convinces with its features for easy installation and maintenance. Through its integrated visible alarm, it offers a higher operating safety for the customer and saves energy thanks to the low power consumption. Its new modern design as well as the low noise operation makes it perfectly fitting the customers' environment.

#### Special features/benefits:

- Easy installation thanks to plug and pump systems with adaptable inlet and rotatable cover
- Quick and easy maintenance thanks to removable service cap and integrated non-return valve
- Neutralization capacity thanks to integrated separating wall
- Higher operating safety thanks to integrated visible and acoustic alarm
- Energy-saving through low power consumption
- Perfect integration in the customers' environment thanks to compact modern design combined with quiet operation (<40dBA)



Wilo-Plavis 011-C



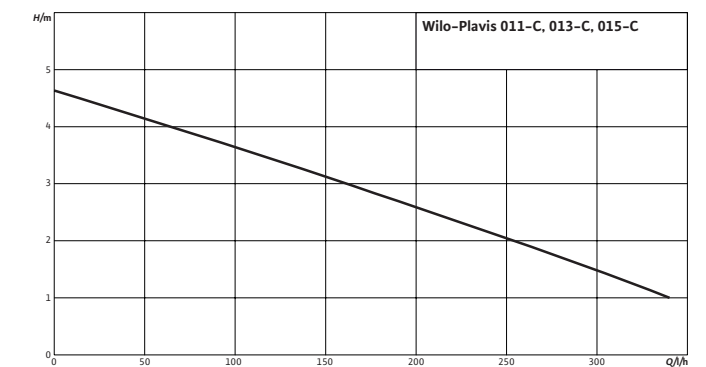
Wilo-Plavis 015-C

#### Wilo-Plavis Cooling and air-conditioning

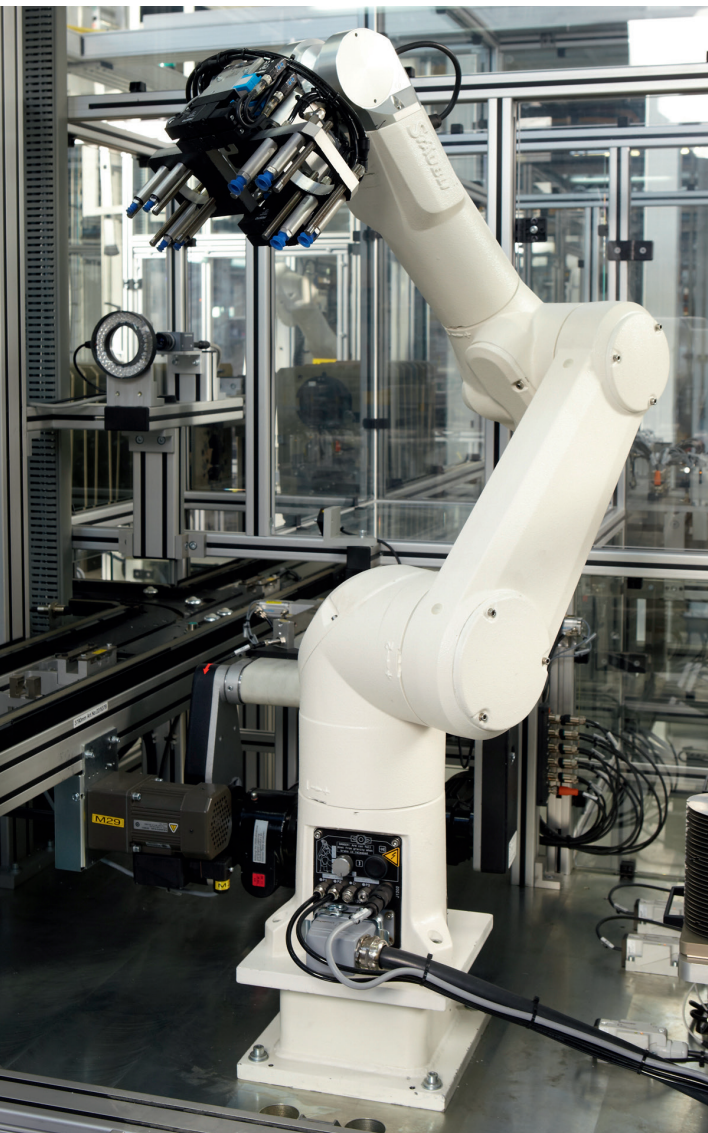


#### Technical data

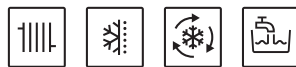
Mains connection	1~100-240 V, 50/60 Hz
Power	P1 < 20 W
Fluid temperature	from +5 °C to +40 °C
Protection class	IPX4
Condensate drainage connection	Ø 8 mm to Ø 10 mm
Integrated, adjustable inlet connection	Ø 18 mm to Ø 40 mm
Rubber inlets	Ø 8 mm to Ø 32 mm
Suitable for condensate with a pH value	≥ 2.5
Tank volume	1.6 l
Useable volume	0.7 l
Time for emptying the tank	20 s







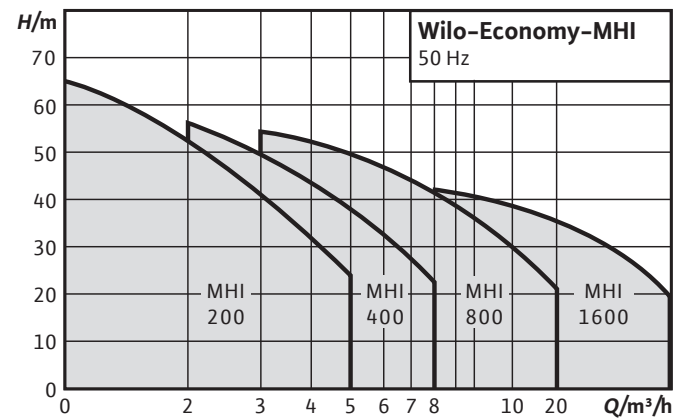
**Wilo-Economy MHI**  
Heating and cooling, air-conditioning, domestic hot water circulation, hydraulic network maintenance



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 °C to +110 °C
Max. volume flow Q	25 m <sup>3</sup> /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



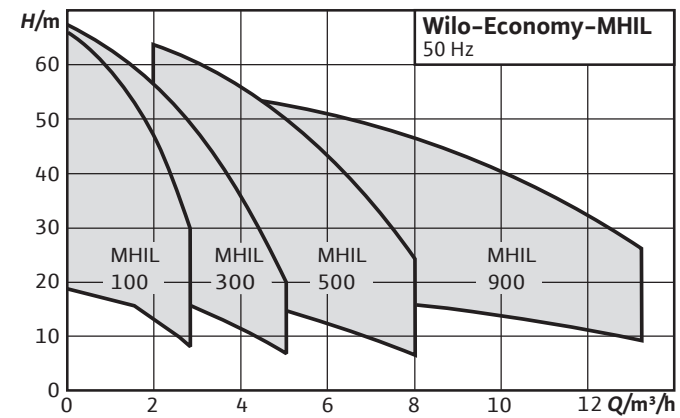
**Wilo-Economy MHIL**  
Heating and cooling, air-conditioning, hydraulic network maintenance



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 m <sup>3</sup> /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



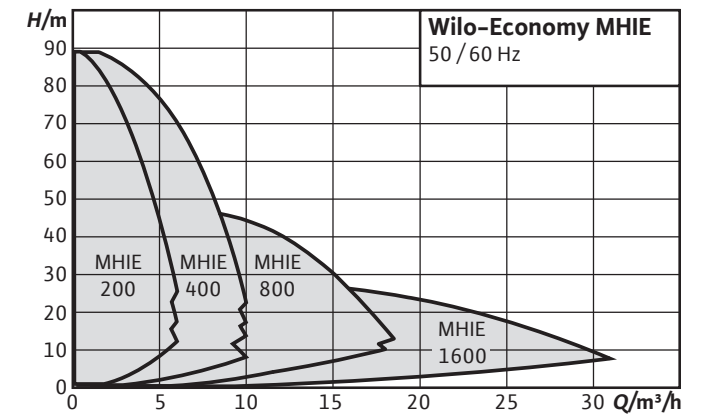
**Wilo-Economy MHIE**  
Heating and cooling, air-conditioning



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

**Technical data**

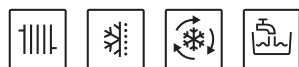
Fluid temperature	-15 °C to +110 °C
Max. volume flow Q	36 m <sup>3</sup> /h
Max. delivery head H	84 m
Mains connection	1~: 50/60 Hz 230 V 3~: 50/60 Hz from 380 V -10 % to 440 V + 6%
Protection class	IP 54
Size	Rp 1, Rp 1 ¼, Rp 1 ½ or Rp 2
Rated pressure	10 bar





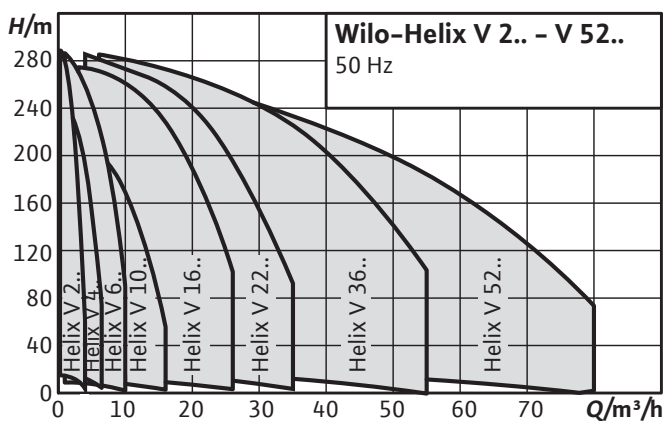


**Wilo-Helix V**  
Heating and cooling, domestic hot water circulation, hydraulic network maintenance



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 °C to +120 °C
Max. volume flow Q	80 m <sup>3</sup> /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

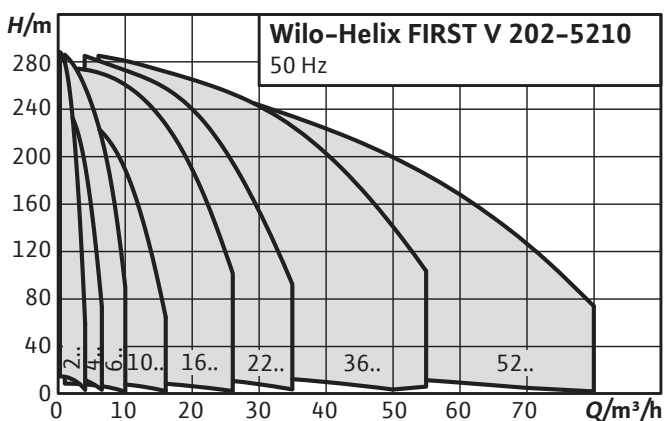


**Wilo-Helix FIRST V**  
Heating and cooling, hydraulic network maintenance



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 °C to +120 °C
Max. volume flow Q	80 m <sup>3</sup> /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

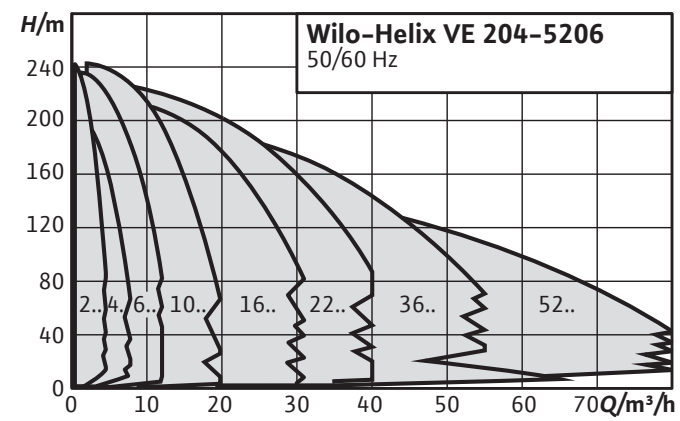


**Wilo-Helix VE**  
Heating and cooling, air-conditioning



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 °C to +120 °C
Max. volume flow Q	80 m <sup>3</sup> /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

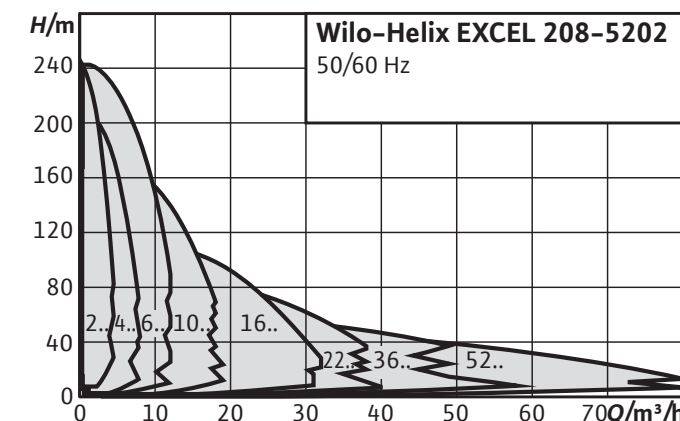


**Wilo-Helix EXCEL**  
Heating and cooling



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 °C to +120 °C
Max. volume flow Q	58 m <sup>3</sup> /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





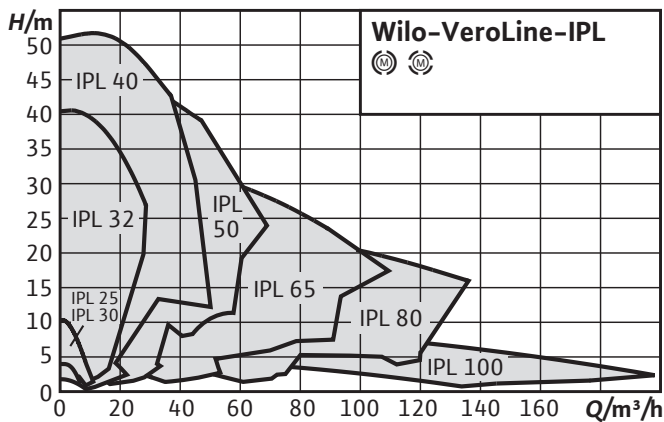


**Wilo-VeroLine-IPL**  
Heating and cooling, air-conditioning



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 m <sup>3</sup> /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

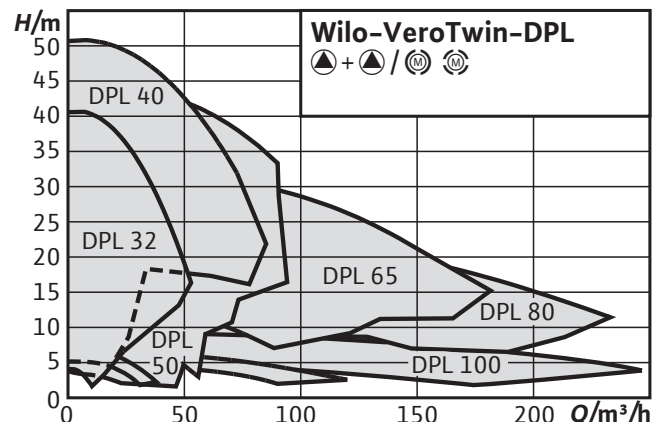


**Wilo-VeroTwin-DPL**  
Heating and cooling, air-conditioning



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 m <sup>3</sup> /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

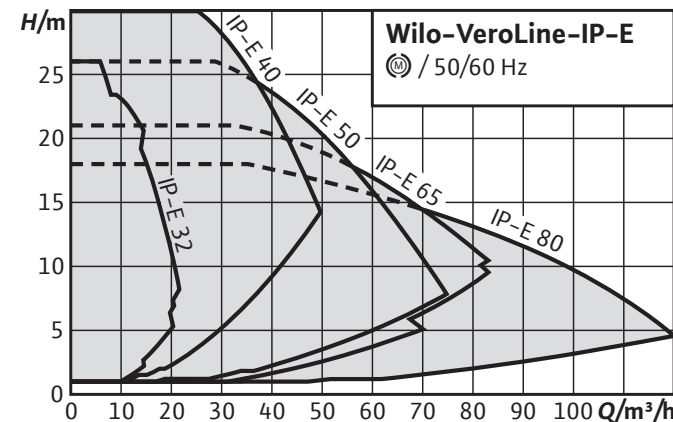


**Wilo-VeroLine-IP-E**  
Heating and cooling, air-conditioning



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 m <sup>3</sup> /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

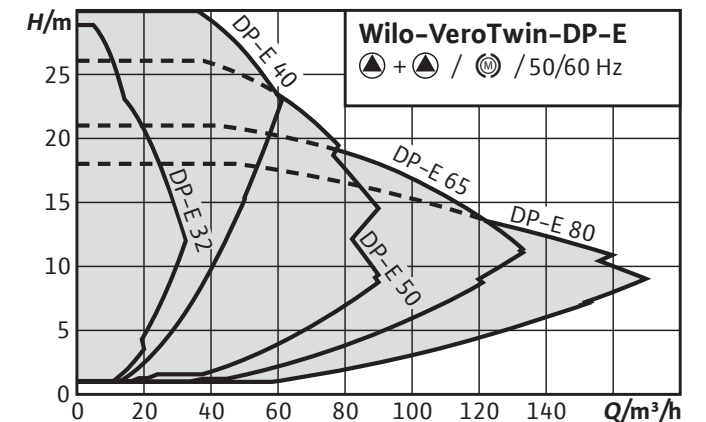


**Wilo-VeroTwin-DP-E**  
Heating and cooling, air-conditioning



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 m <sup>3</sup> /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





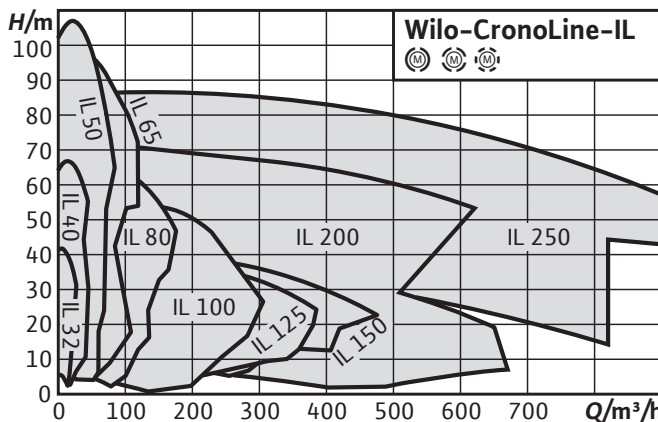


**Wilo-CronoLine-IL**  
Heating and cooling, air-conditioning



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 m <sup>3</sup> /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

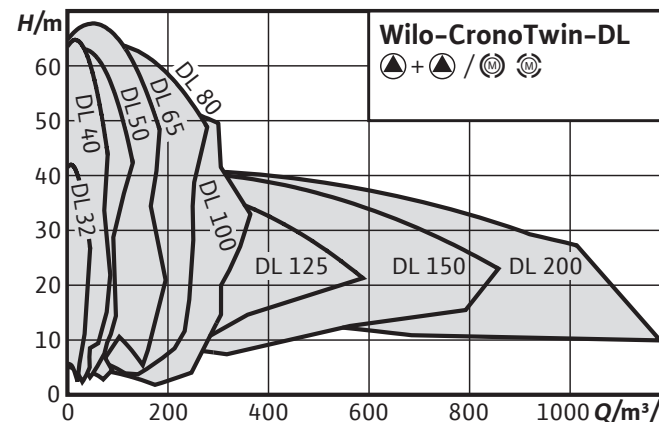


**Wilo-CronoTwin-DL**  
Heating and cooling, air-conditioning



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 m <sup>3</sup> /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

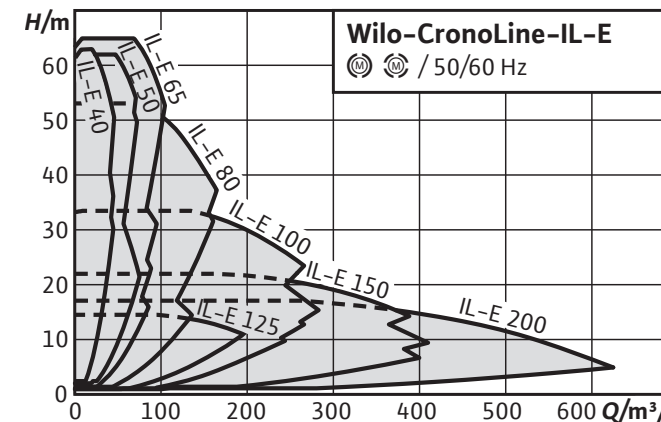


**Wilo-CronoLine-IL-E**  
Heating and cooling, air-conditioning



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 m <sup>3</sup> /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

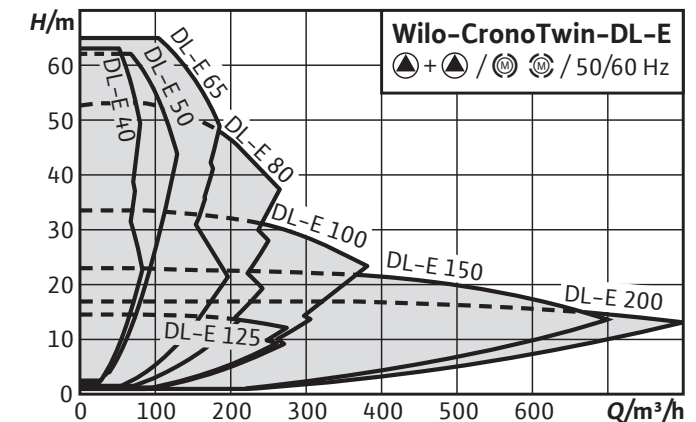


**Wilo-CronoTwin-DL-E**  
Heating and cooling, air-conditioning



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 m <sup>3</sup> /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







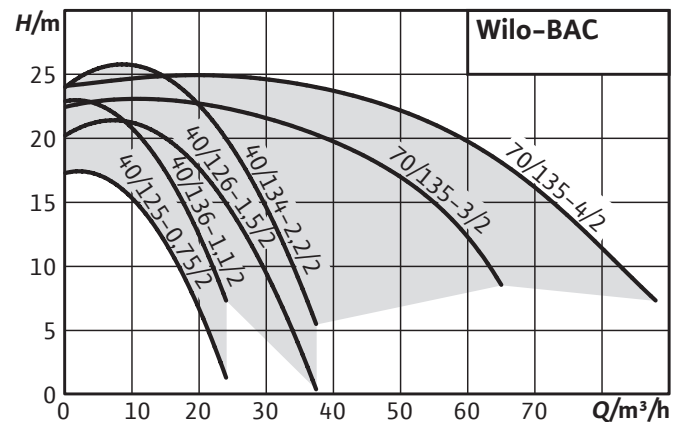
**Wilo-BAC**  
Air-conditioning



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 m <sup>3</sup> /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



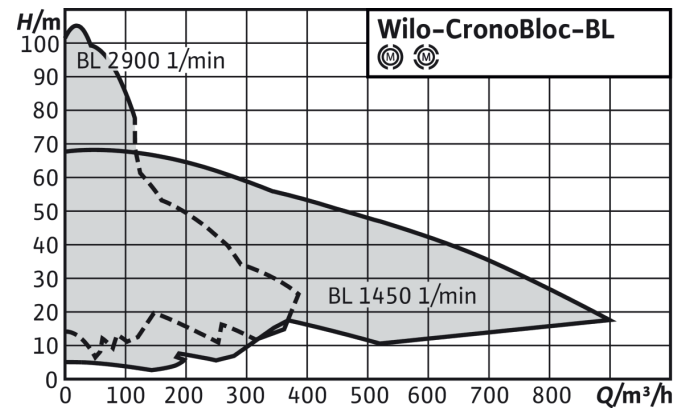
**Wilo-CronoBloc-BL**  
Heating and cooling, air-conditioning



Glanded pump in monobloc 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 m <sup>3</sup> /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



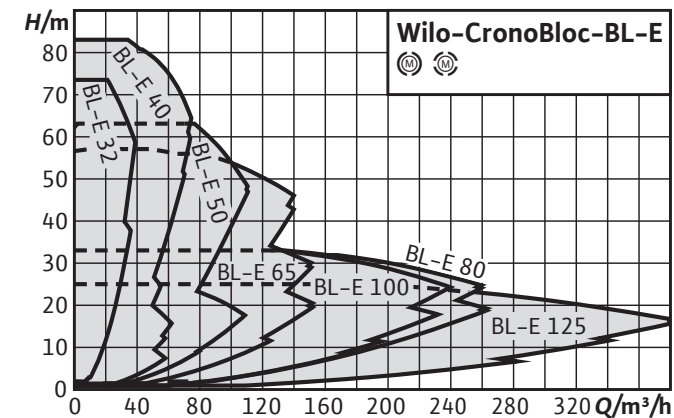
**Wilo-CronoBloc-BL-E**  
Heating and cooling, air-conditioning



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 m <sup>3</sup> /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)  $\geq 0.7$  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 Button Technology



Flexible incorporation into building automation using optionally integrable interface modules



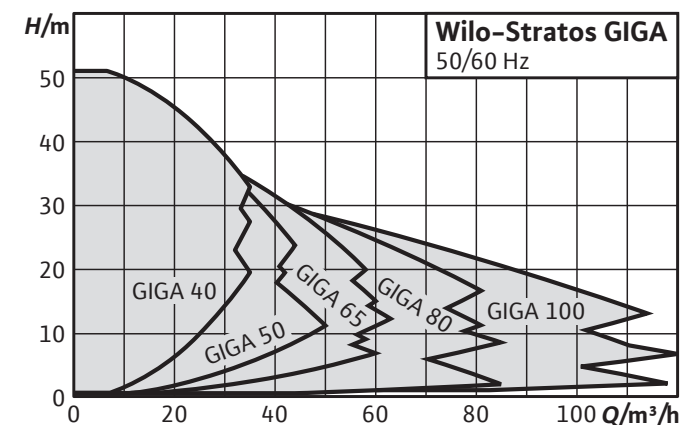
**Wilo-Stratos GIGA**  
Heating and cooling, air-conditioning



High-efficiency in-line 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 m <sup>3</sup> /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	$\geq 0.7$



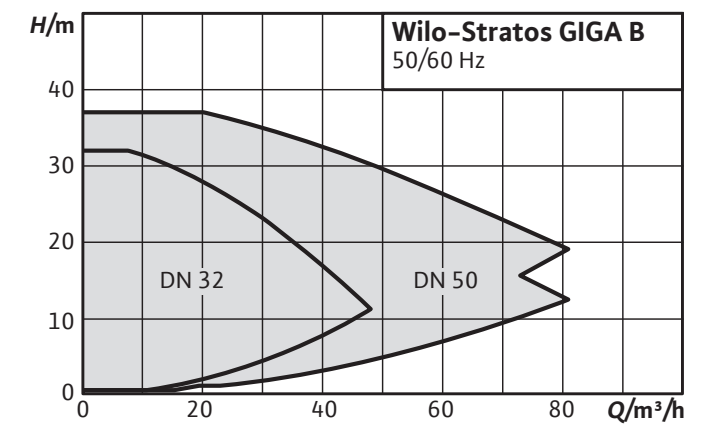
**Wilo-Stratos GIGA B**  
Heating and cooling, air-conditioning



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 m <sup>3</sup> /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	$\geq 0.7$





Imagine you  
never had to check  
quality again.







## Wilo Hydraulic Group. Imagine yourself as the global leader for hydraulic products.

We have further expanded our range of services in order to maximise your competitiveness in the ever-increasing complexity of the international market. Our system partnership with Bitrom HVAC Systems brings together an extensive range of skills and resources. It offers you an extraordinary bandwidth of expertise, products and services.

This provides you with reliable safety by enabling you to use technologically innovative hydraulic solutions and thus to stay ahead on the global market. At the same time, it strengthens your own key areas, such as quality management, product management, innovation and sales – to name but a few.

### Top quality that also allows high levels of customisation.

When we talk about hydraulic groups, we mean the product solutions that are well-established on the market and the systems offered by the large European HVAC OEM manufacturers, which have been installed millions of times.

They are made of high-performance thermoplastic materials and are certified for direct contact with drinking water. Such groups include the integrated components, which enable the boiler to operate – such as the 3-way valve, various sensors (for temperature, pressure and flow), safety valves, heat exchangers and the circulator. Bitrom HVAC Systems and Wilo work in close partnership, particularly for the integration of these components.

Each component is developed, tested and classified by Bitrom HVAC. Wilo ensures that the components withstand the toughest real-life conditions. They are manufactured in-house, which ensures the highest possible level of traceability and quality control. You can also be assured of maximum reliability and reduced throughput times, which result in lower stock-keeping levels.

Each hydraulic group is produced, installed, tested and delivered as a complete unit. They can therefore be directly fitted to the boiler.

The extensive range offers various solutions:

- Combi and bithermic
- Multi-plate heat exchangers for combi versions





Imagine shared solutions streamlined your supply chain.





## OEM Solutions Service. Imagine your business practically ran itself.



With OEM Solutions as your partner, you can not only be sure of choosing high-quality product solutions, but also of benefiting from a comprehensive, all-round carefree package of well-thought-out services. This means that we provide you with reliable support in every

project phase, from design and configuration right through to commissioning and maintenance. In short, OEM Solutions is always by your side. In person and on site. We have plenty to offer in this area.

### 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 continuously 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 highefficiency 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.





## OEM Solutions for Industry. Imagine you could provide a tailored solution for any industry application.

Wilo is a specialist original equipment manufacturer for any kind of application, including for the industry sector. This area of OEM Solutions offers modern high-pressure pumps that are developed to precisely meet your requirements. This means that even under particularly extreme conditions you can benefit from high levels of quality and reliability, which demonstrate the full scope of Wilo's expertise. These pump technologies are equipped with powerful motors and gaskets and are available in a variety of modules. They facilitate high-level filtration, temperature control and cooling.

### OEM Solutions for high demanding industry applications

#### High pressure applications

Our pumps are designed also to meet the demand of high pressure applications which wear the pumps in general. Customised solutions exist.

##### Wilo Range

- Filtration
- Industrial processes
- Steam boiler feed
- Washing and cleaning
- Reverse osmosis

#### Temperature control

Pumps can be exposed to temperature extremes that could affect their durability.

##### Wilo Range

Cooling systems for:

- Wind turbines
- Electronic data processing
- Medical equipment
- Industrial cooling

#### Special installation requirements

Some installations require a specific pump design than the standard one. Wilo proposes certified pumps and solutions to mount pumps horizontally.

##### Wilo Range

- Remote areas
- Limited space for installation
- Fire fighting
- Ships
- Mobile applications



### Options for Multistage range

#### Motors

Wilo offers pumps with a highly efficient drive concept (HED – High Efficiency Drive) and offers motor efficiencies above the new IE4 limit value. When it comes to energy efficiency and frequency converters, these high-performance drives demonstrate the distinctive quality offered by Wilo.

#### Options and features\*:

- ATEX approved
- Built-in heating unit
- Bimetallic thermal protector or temperature depending on resistance (PTC)
- CURus approval for dual frequency in USA and Canada possible
- Four-pole motor for low noise levels
- VE motors with integrated frequency converter
- Available with multi-plug motor for fast main connections
- Various certificates for motors (noise, vibration, performance, efficiency) available



### Pump modules

Special requirements call for special solutions. OEM Solutions develops a range of specialised pumps for you. The pumps are constructed in such a way as to make it possible to install or connect them for pressures of up to 30 bar.

#### Options and features\*:

- Horizontal mounting
- High pressure pumps
- Flange connections
- Bare shaft pump

### Shaft seals and other options

When liquids go beyond the normal limits, special shaft seals are necessary to ensure proper operation.

#### Options and features\*:

- X-Care option. For dry-running protection, pump monitoring, communication interface (IR, CAN, relay, LED)
- Shaft seals made with different materials to handle any industrial liquid: Q1Q1 Q7Q7
- Seals in EPDM and FKM rubber rings for specific applications
- Additional corrosion resistance
- Certificates 3.1 and 3.2 according to NF EN 10204 available

\*This is a non-restrictive list. Please contact Wilo, if you do not find the option required.





## Imagine our innovations set new standards in your developments.

With OEM Solutions, what is visionary is just a step away from reality. As the leading original equipment manufacturer, we see ourselves as part of your business and we know exactly how crucial your processes are. We work with you to develop customized innovative solutions making you a pioneer in your market. We produce these solutions for you at the time you choose, to sustainable, top quality. This will benefit your entire business. From senior management to purchasing. From logistics to research and development. Thanks to highly committed teamwork for your success. **OEM Solutions. Let's move. Together.**



# wilo



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