Pioneering for You

General overview of OEM Solutions 2020

OEM Smart Integrated Solutions.

Dedicated to your application.


Pioneering for You
wilo

Table of contents

General overview

Overview of our product range

OEM Solutions

The promise of an international Group

Wilo headquarters in Dortmund

Our promise to you

The Wilo Group is one of the world's leading premium providers of pumps and pump systems for the building services, water management and industrial sectors.
In the past decade, we have developed from a hidden champion into a visible and connected champion. Today, Wilo has around 8,000 employees worldwide.

Our innovative solutions, smart products and individual services move water in an intelligent, efficient and climate-friendly manner. We are also making an important contribution to climate protection with our sustainability strategy and in conjunction with our partners. We are systematically pressing ahead with the digital transformation of the Group. We are already the digital pioneer in the industry with our products and solutions, processes and business models.

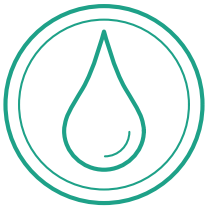
On more than 190,000 square metres and after a construction period of 36 months, production started in 2019 in our Smart Factory in our headquarters in Dortmund. With moving into the Pioneer Cube in the first half of 2020, our headquarter of the future, the WiloPark, will be the administration site of the Wilo Group.

Our market segments

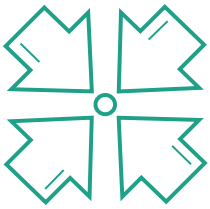
BUILDING SERVICES RESIDENTIAL
We are full-range supplier and customers' first choice

BUILDING SERVICES COMMERCIAL
We are market innovation and smart solution leader

OEM
We are preferred partner for smart integrated solutions



WATER MANAGEMENT
We are global marketplayer and digital solution provider



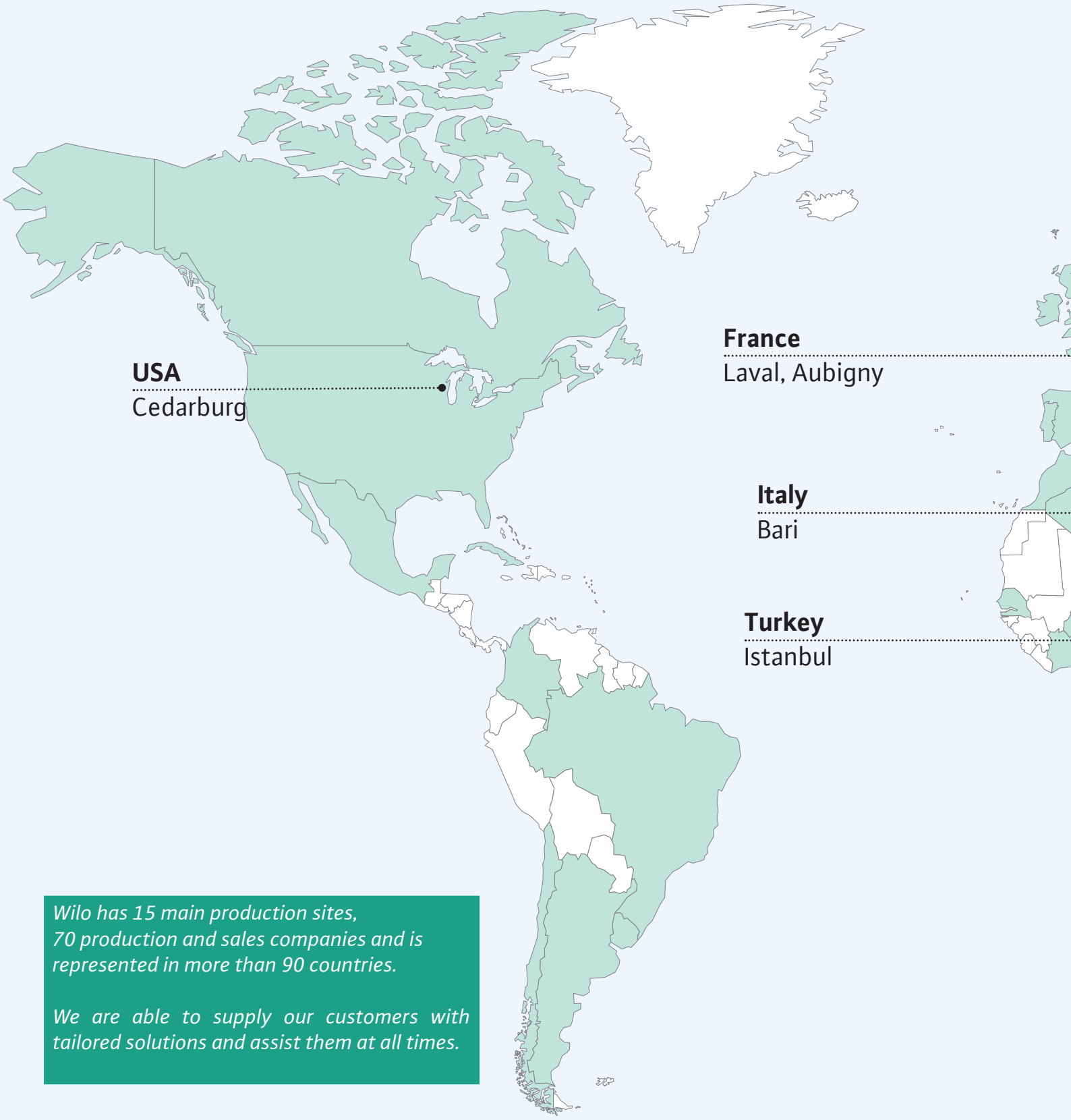
INDUSTRY
We are specialist in selected branches and applications

Wilo OEM

In the OEM segment, Wilo offers a high-efficiency and cost-conscious product portfolio in addition to tailored services. Here, products in the sectors of heating, cooling, air-conditioning, solar thermal energy, geothermal energy and domestic hot water are being constantly adapted to customer wishes and requirements.
In other segments such as water supply, water treatment and industry, we combine our knowledge of the OEM market and its requirements with the large Wilo product offer to provide you up to date solutions which fit your demand.
In all of the segments we are active in, new and powerful pump systems are constantly being further developed and optimised by Wilo engineers, in order to meet the permanently growing and more complex requirements.

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.



Wilo has 15 main production sites, 70 production and sales companies and is represented in more than 90 countries.

We are able to supply our customers with tailored solutions and assist them at all times.


Germany
Dortmund, Hof,
Oschersleben
China
Beijing,
Qinhuangdao
Russia
Noginsk
(Moscow region)
Korea
Busan
UAE
Dubai
India
Pune,
Kolhapur
Countries in which Wilo has a presence
Town = Main production site

OEM Solutions.
We are the partner who develops, with you, the solution you need.

Our definition of partnership

Our method of working has always been to be as close to you as possible, in order to familiarise ourselves and fully understand what the issues are in your markets. This is how we attach great importance to knowing every detail of your processes, in order to develop alongside you, the best tailor-made solutions adapted to your needs.

Proximity at all levels

Because your success is our target, each of us, based on our responsibilities, is committed to meeting the requirements of our partner counterpart.

So, your leaders pursue their visionary goals, your operations managers are assured of smooth processes, your research and development team can count on innovative solutions and your sales team on the most fair prices. Finally, your engineers will be thrilled by the high efficiency of our solutions and your quality management will be guaranteed of reliable processes.

Whether you are an international group or a small or medium-sized enterprise, a contact person will be dedicated to you in order to best meet your requirements.

A human-sized company at the core of an international group

We are a team of 600 experienced and skilled employees who make every effort to develop excellent solutions. We are historically located in Aubigny/France and also provide products and services all over the world, through our Wilo plants and subsidiaries network.

A global organization

Our organization is intended to give you the best support locally and on a worldwide scale. Global and local sales management, sales engineering, business support and customer quality are at your disposal wherever you are located.

Our areas of expertise

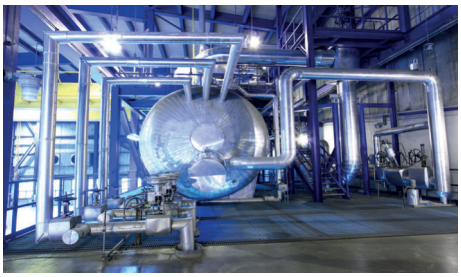
Historically, our expertise has been built in the Heating, Ventilation and Air-Conditioning industry and in the residential building sector. We have now extended our scope of action to other segments such as commercial buildings and industry and developed solutions for applications such as fire-fighting, wind power or water treatment ...

Our knowledge of the OEM market, combined with the expertise of our electronics and motor technology specialists, as well as our innovative research and development teams allow us to offer state-of-the-art-solutions adapted to any systems in various application fields.

Condensing boilers

Non-condensing boilers

Heat pumps



Hot water, steam boilers and CHP

Hydraulic network maintenance

Industrial cooling

Chillers, cooling towers

Renewables

Water distribution, boosting

Substations

Water treatment

Fire fighting


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

Highly efficient pumps from OEM Solutions.
From existing modules to custom-developed solutions.

Solution designer, solution provider

Wilo develops networked systems that build on sustainable concepts and intelligent technologies.

With its pioneering spirit, Wilo creates products and solutions that provide today's market with answers to the complex tasks of tomorrow's building services and industries.

To do this, we equip our products with ambient intelligence to create new functionalities.
As an innovation leader, we set standards and offer customers around the globe tailored products that guarantee the maximum in terms of reliability, flexibility and energy savings.

Wilo is perfectly set up to cater to the greatest variety of customer requirements – smartly, efficiently and holistically.

The building services market is changing. The market demands a shift from individual products for a single application to solutions for specific on-site challenges and, moreover, to full-range solutions for all applications.

As a solution provider, Wilo comprehensively handles the needs of its customers from A to Z through its worldwide expert network.

Customised solutions

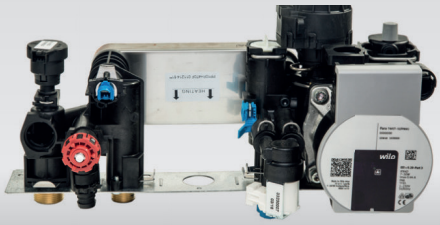
This process involves studying the customer's current infrastructure, evaluating the customer's needs and developing the right mix of hardware and software that is required.

A solution, as a complete package to solve a specific challenge, starts from the project itself and customer requirement definition. Then it contains all the necessary components, such as the product itself but also the services (training, assistance ...) and, ultimately, a digital approach to improve data exchange and performance.

Additionally, the solution includes the qualification of the product within the application and ongoing worldwide service & support. This is why we are able to offer solutions combining existing modules as well as custom-developed products which will respond to specific needs or challenges.

A customised solution may be addressed in different ways. It can refer to customised electronical pump settings, responding to a specific usage or need from the customer.
Or, it can include an additionnal accessory or connection type enabling a better integration into the application.

Complete hydraulic solution made of integrated components, ready to be directly fitted in a boiler.



Wilo-Para INT for integrated version

Examples of options available with the Helix range:

- *Adaptation of motor power*
- *Large choice of housing, hydraulic components and sealing material*
- *Adaptation of voltage, frequency and motor certification according to the sales area*
- *Several choices of floating rings to cover a large range of applications*
- *Specific corrosion resistant painting*
- *...*

OEM product range
for residential buildings

- Heating
- Air conditiong & cooling
- Water Supply

Applications

Heating				
	Heating systems	Solar thermal energy systems	Geothermal energy systems	Sanitary hot water
Wilo-Para	x			
Wilo-Para ST		x		
Wilo-Para G			x	
Wilo-Para STG	x	x	x	
Wilo-Para-Z				x
Wilo-Para R	x		x	
Wilo-Yonos PARA High Flow	x	x	x	
Wilo-Stratos PARA	x	x	x	
Wilo-Stratos PARA-Z				x
Wilo-Medana CH1-L, CH1-LC				
Wilo-Economy MHIE				

Air conditioning & cooling				*Water Supply*		
Hydraulic network maintenance		Air conditiong systems		Water distribution Boosting	Rainwater utilisation	Page
x		x				18
						22
						22
		x				23
						23
		x				26
x		x				27
x		x				28
						28
				x	x	32
				x	x	35

OEM product range
for commercial buildings and industry

- Heating
- Air conditiong & cooling
- Water Supply

Applications

Heating

	Heating systems	Hydraulic network maintenance	Sanitary hot water	Industrial heating
Wilo-Stratos PARA	x			
Wilo-Stratos PARA-Z			x	
Wilo-Stratos	x			
Wilo-Stratos MAXO	x			
Wilo-Stratos MAXO-Z			x	
Wilo-Medana CH1-L, CH1-LC	x	x		
Wilo-Economy MHIE	x	x		
Wilo-Helix V	x	x		x
Wilo-Helix FIRST V	x	x		x
Wilo-Helix VE	x			x
Wilo-Helix EXCEL	x			
Wilo-VeroLine-IPL, DPL	x	x		
Wilo-VeroLine-IP-E, DP-E	x			
Wilo-CronoLine-IL, DL	x			x
Wilo-CronoLine-IL-E, DL-E	x			x
Wilo-BAC				
Wilo-CronoBloc-BL	x			x
Wilo-CronoBloc-BL-E	x			x
Wilo-Stratos GIGA	x			
Wilo-Stratos GIGA B	x			

Air conditioning & cooling			*Water Supply*			
	Cooling & Process cooling	Water distribution Boosting	Raw water intake and Rain water utilisation		Fire fighting	Page
Wilo-Stratos PARA	x					28
Wilo-Stratos PARA Z						28
Wilo-Stratos	x					29
Wilo-Stratos MAXO	x					30
Wilo-Stratos MAXO-Z						31
Wilo-Medana CH1-L, CH1-LC	x	x	x			32
Wilo-Economy MHIE	x	x	x			35
Wilo-Helix V	x	x			x	36
Wilo-Helix FIRST V	x	x			x	36
Wilo-Helix VE	x	x			x	37
Wilo-Helix EXCEL	x	x				37
Wilo-VeroLine-IPL, DPL	x					38
Wilo-VeroLine-IP-E, DP-E	x					39
Wilo-CronoLine-IL, DL	x					40
Wilo-CronoLine-IL-E, DL-E	x					41
Wilo-BAC	x					42
Wilo-CronoBloc-BL	x					42
Wilo-CronoBloc-BL-E	x					43
Wilo-Stratos GIGA	x					44
Wilo-Stratos GIGA B	x					45

Wilo-Para.
The most reliable OEM solution.

The high efficiency circulator series Wilo-Para is dedicated to heating and cooling applications in OEM residential market.
Its compact design and predefined standard settings make the commissioning and setup very easy. The circulators may be self-controlled (Dp-v, Dp-c, n-constant) or externally controlled through iPWM or LIN Bus interface.
At last, a large choice of pump housings and options available enable a very high integration flexibility to better answer to the needs of the customers.

Special features/benefits:

- → High integration flexibility due to backwards compatibility with former asynchronous and synchronous series and a wide range of specific pump housings
- → Easy installation thanks to a compact and standardised design with a front access to the signal connector and the screws
- → Easy handling and commissioning with the green push button to select different regulation modes and settings combined with a LED interface
- → Maximum flexibility thanks to different control modes like self-control (SC), external control via LIN communication Bus or external iPWM control.
- → Reinforced system protection through integrated functionalities such as air venting, manual restart as well as return to factory settings

Wilo-Para STG

Wilo-Para SC

Wilo-Para with LIN Bus or iPWM

The standard pump housing for heating application is made of cast iron but Wilo also developed a wide range of specific composite pump housings offering a large variety of options such as air venter, flow sensor, safety valve ... to meet as fully as possible any usage requirement.

This wide offer guarantees a high flexibility of integration in many appliances.

Additional pump housings dedicated to domestic hot water application are also available (range Wilo-Para Z)

Inline cast iron pump housing

RSB axial cast iron pump housing

KU composite inline pump housing

RSL composite inline pump housing

BSL composite pump housing

KSL composite pump housing

MSL composite pump housing

NFSL composite pump housing

HU 15 composite pump housing

HU 25 composite pump housing

New

Wilo-Para SCU

The dedicated circulator to low head loss applications.

Wilo-Para
The OEM solution for heating and air conditioning applications

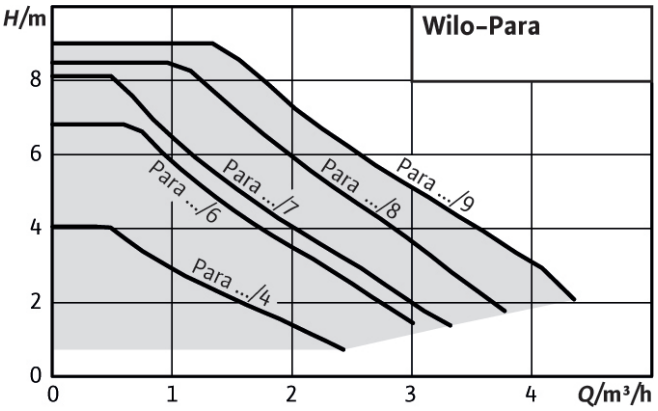
The high efficiency circulator Wilo-Para is dedicated to heating and air conditiong applications. Depending on customers' needs, options can be easily integrated into a variety of customised composite housings.

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	4/6/7/8/9 m
Size	130/180 mm DN 15/DN 25/DN 30
EEI	≤ 0.20

Wilo-Para SCU
The dedicated circulator to low head loss applications

The high efficiency circulator Wilo-Para SCU is dedicated to low head loss systems in heating applications. The adjusted pre-defined settings make its commissioning and setup very easy.

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)
Hydraulic performance	6/7/8/9 m
Size	130/180 mm DN 15/DN 25/DN 30
EEI	≤ 0.20



The predefined curves of the Wilo-Para SCU are optimized for high efficiency installations. They have been calculated to meet the majority of the market demands in terms of pressure losses.

Once installed in your appliance, the pump will allow all the components of the hydraulic network to function perfectly (underfloor heating, thermostatic valves etc.)

New

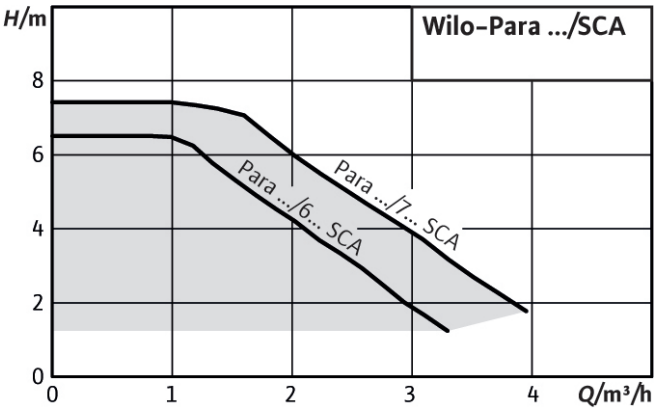
Wilo-Para SCA

The high-efficiency replacement solution for asynchronous small circulator.

Wilo-Para SCA
The replacement solution for asynchronous circulators

Thanks to backwards compatibility and full cover of the standard efficiency hydraulic series, this circulator can be easily integrated into existing applications while keeping the benefits of the Wilo-Para series design .

Technical data	
Fluid temperature	0 °C to +95 °C
Ambient temperature	0 °C to +70 °C
SC, self-controlled, green push button	Constant speed (Manual air venting, manual dejamming function, 1 Δp-v speed)
Hydraulic performance	6/7 m
Size	130/180 mm DN 15/DN 25/DN 30
EEI	≤ 0.20



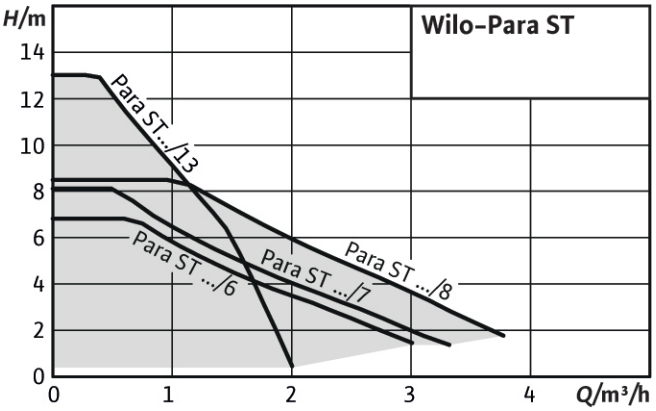
Wilo-Para SCA, the high efficiency replacement solution

Wilo-RS circulator, the standard efficiency range

Wilo-Para ST
The OEM solution for solar thermal application

The high efficiency circulator Wilo-Para ST series is dedicated to solar thermal applications. A maximum reliability is guaranted by the pump compatibility to a high static pressure and high temperature.

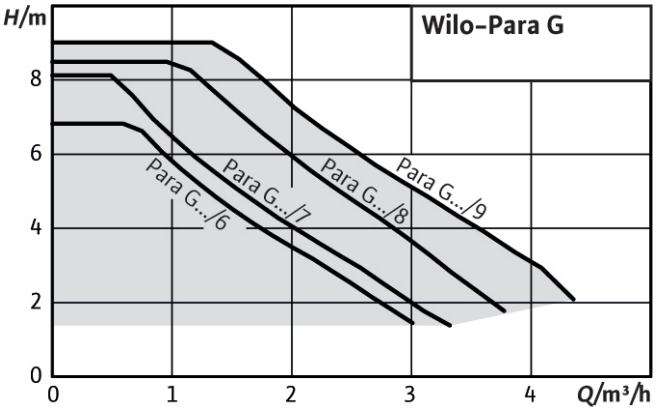
Technical data	
Fluid temperature	0 °C to +110 °C (+140 °C)
Ambient temperature	0 °C to +70 °C
SC, self-controlled, green push button	Δ p-v, Δ p-c, constant speed (Manual air venting and manual dejamming function)
External control	iPWM2 signal, LIN bus
Hydraulic performance	6/7/8/13 m
Size	130/180 mm DN 15/DN 25/DN 30
EEI	≤ 0.20



Wilo-Para G
The OEM solution for geothermal application

The high efficiency circulator Wilo-Para G is dedicated to geothermal applications. The motor housing and the screws are specially designed with corrosion protection and with a minimum fluid temperature of -20°C, the circulators are suitable for use in brine circuits.

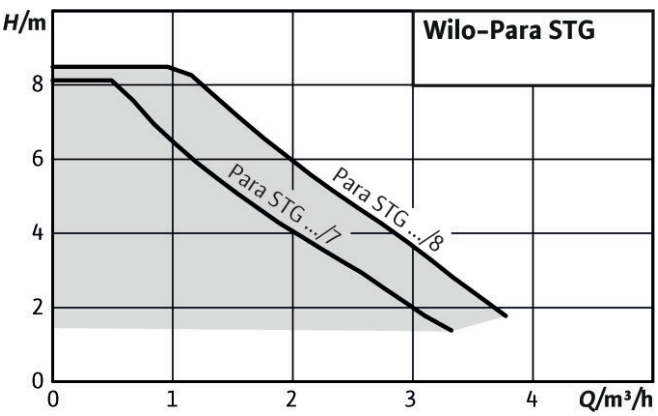
Technical data	
Fluid temperature	-20 °C to +95 °C
Ambient temperature	0 °C to +70 °C
SC, self-controlled, green push button	Δ p-v, Δ p-c, constant speed (Manual air venting and manual dejamming function)
External control	iPWM1 signal, LIN bus
Hydraulic performance	6/7/8/9 m
Size	130/180 mm DN 15/DN 25/DN 30
EEI	≤ 0.20



Wilo-Para STG
The highly versatile OEM solution

The high efficiency circulator Wilo-Para STG is an hybrid circulator dedicated to a large variety of applications like heating, air conditioning, solar thermal and geothermal applications. This series embeds simultaneously the self-regulating functions (SC) and the external control function via bi-directional iPWM signal.

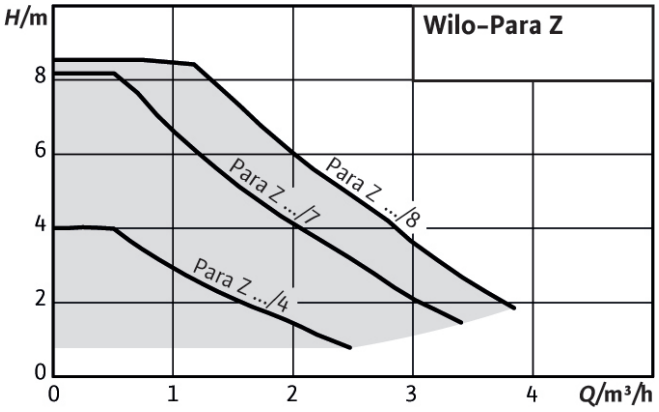
Technical data	
Fluid temperature	-20 °C to +110 °C (140°)
Ambient temperature	0 °C to +70 °C
SC, self-controlled, green push button	Ext, Δ p-c, constant speed (Manual air venting and manual dejamming function)
External control	iPWM1 and iPWM2 signal
Hydraulic performance	7/8 m
Size	130/180 mm DN 15/DN 25/DN 30
EEI	≤ 0.20



Wilo-Para Z
The OEM solution for sanitary application

The high efficiency circulator series Wilo-Para Z offers a large choice of pump housings (bronze, composite, stainless steel) . The series embeds special materials in order to fullfill sanitary requirements while keeping the benefits of the Wilo-Para series.

Technical data	
Fluid temperature	0 °C to +80 °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	4/7/8 m
Size	130/180 mm DN 15/DN 25



Wilo-Para LIN

The smart integrated circulator for advanced HVAC appliances.

The high efficiency circulator Wilo-Para LIN offers the most advanced product solution for a smart integration in heating, geothermal or solar applications.

The LIN technology has been proven by the automotive industry. It's an advanced, robust and reliable solution offering many smart features such as remote control and data sharing (operating status, flow rate, speed, water head and power consumption). This allows diagnosis for predictive maintenance, spare part management and traceability.

With LIN, Wilo steps in the future of smart heating and air-conditoning appliances.

One significative stage further towards an even more connected offer!

Our LIN tools offer

Wilo provides you a full set of documentation and tools, enabling you to understand the benefits of this technology and implement it into your application.
And further, we have created a translation guide to help your teams in their daily LIN development activities.

We are here to support you along the LIN path and are available for any question you may have. Our contact form is accessible on our website www.wilo-oem.com

Moreover, for any comment on the tools below, a satisfaction survey is also available on our website. Don't hesitate to give your comments.

Discover our tools and documentation on ***www.wilo-oem.com***

LIN Communication Evaluation Kit
Helps implement the Bus interface into your application

LIN in a nutshell
Gives you answers to all your questions about LIN

Temperature sensor embedded

With the LIN advanced solution, the circulator includes an integrated temperature sensor which allows the circulator to communicate the temperature information to the appliance controller.

The sensor enables a precise measurement and follow up of the temperature and a convenient sensor response time which makes the system management optimal, especially for undefloor heating appliance.

LIN Technical guide
All you need to know about LIN technology

LIN Frame Translate
Dedicated for electronic technicians and developers

New

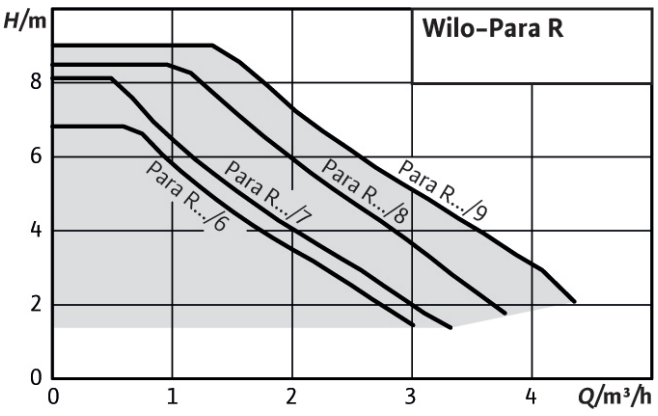
Wilo-Para R

The OEM safe solution

Wilo- Para R
Heating and air conditioning, geothermal energy

R290

Technical data	
Fluid temperature	-20 °C to + 95°C
Ambient temperature	0 °C to 70 °C
SC, self-controlled, green push button	Δ p-c, Δ p-v, constant speed
External control	iPWM1 and iPWM2 signal, LIN
Hydraulic performance	6/7/8/9 m
Size	130/180 mm DN 15/DN 25/DN 30
EEI	≤ 0.20



The high efficiency circulator series Wilo-Para R responds perfectly to the new regulation EN 60335-2-40 on A3 refrigerant gases (up to R290) used in Heat Pump applications.

The design of Wilo-Para R ensures that the circulator not be source of potential flammability of eco-friendly gases in case of the leakage of such one.

It includes high protection against corrosion, protection of electronics against any fire ignition and a terminal box made of self extinguishing material.

The dedicated SCU control mode, as standard version, is easy to use and operate with the green push button and LED interface. The self-controlled mode version (SC) is proposed as an option.

The Wilo-Para R can also be used with the external control modes* via the bi-directional iPWM 1 & iPWM2 signals and the LIN Bus.

The external control via LIN Bus provides data such as operating status, flow rate, speed, water head and power consumption. The bi-directional signals iPWM1 (standard version) and iPWM2, provide information about the operating status or the power consumption. The iPWM2 signal is optional and used for sanitary tank of electrical heat pumps.

**The connection for external control is with mandatory rated safety extra-low voltage SELV (U)<20V (including tolerance) in order to be complied with IEC or EN IEC 60335-2-40 (electrical heat pumps, air conditioners and dehumidifiers). This input voltage has to be checked by the customer for each pump integration in his heat pump appliance.*

R290

Easily recognisable thanks to a dedicated pictogram on the pump nameplate

Wilo-Yonos PARA High Flow

The high-efficiency replacement solution for asynchronous big circulator.

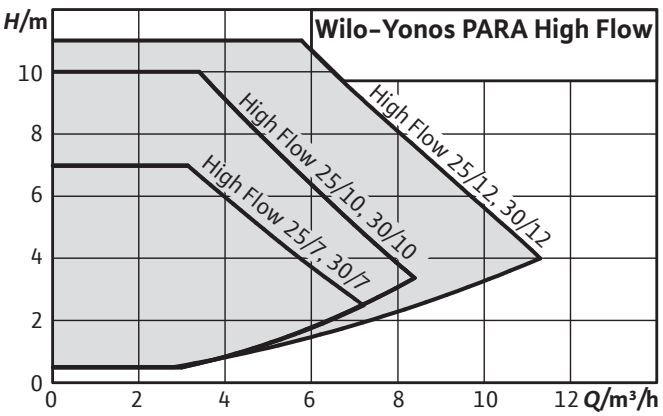
Wilo-Yonos PARA High Flow, high-efficiency range

Wilo-Top S, standard efficiency range

Wilo-Yonos PARA High Flow
Heating and air conditioning, solar and geothermal energy

The high efficiency Yonos Para High Flow pump is the perfect solution for replacing standard pumps Wilo-Top S because no additional balancing is needed.

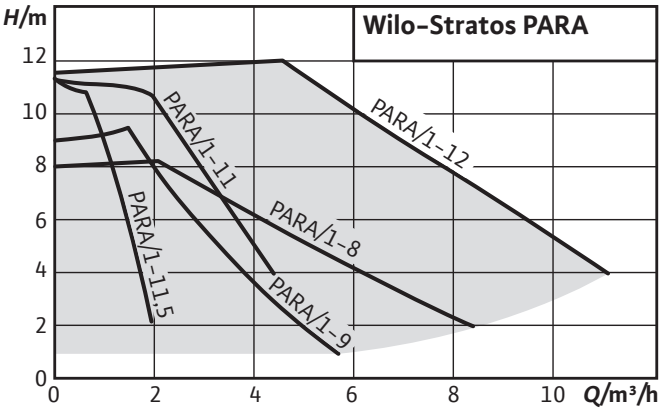
Technical data	
Fluid temperature	-20 °C to +110 °C
Ambient temperature	0 °C to 65 °C
SC, self-controlled, green push button	Δ p-v, Δ p-c, constant speed
External control	-
Hydraulic performance	7/10/12 m
Size	180 mm DN 25/DN 30
EEI	≤ 0.20



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

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

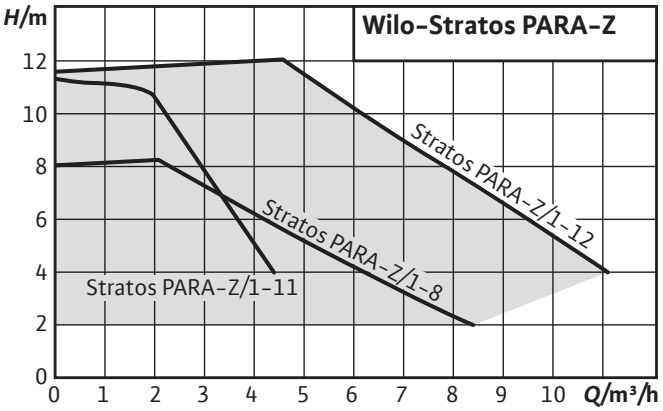
Technical data	
Fluid temperature	-20 °C to +95 °C
Ambient temperature	0 °C to +70 °C
Control mode (green buton)	Δ p-v, Δ p-c
External control	0–10 V signal PWM1 and PWM2 signal
Hydraulic performance	8/9/11/11.5/12 m
Size	180 mm (130 mm) DN 25/DN 30
EEI	≤ 0.23



Wilo-Stratos PARA-Z
Sanitary hot water circulation

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

Technical data	
Fluid temperature	-10 °C to +80 °C (+110 °C)
Ambient temperature	0 °C to 65 °C
Control mode (green 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
EEI	≤ 0.23



Wilo-Stratos
Heating and cooling

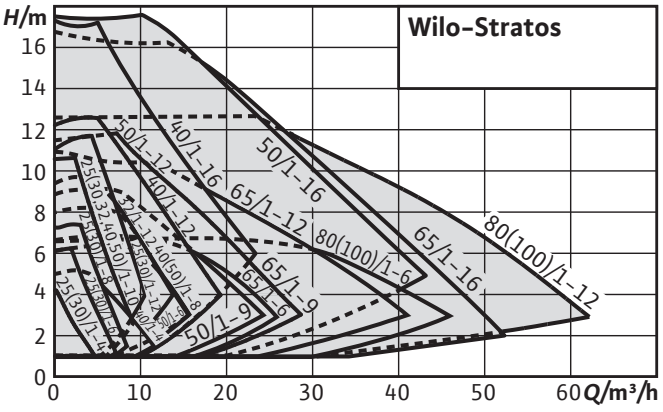
Glandless circulator with threaded connection or flange connection, EC motor with automatic power adjustment. Hot-water heating systems of all kinds, air-conditioning systems, closed cooling circuits, industrial circulation systems.

The Green Button Technology display

IR-Monitor

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 (green button)	Δ p-v, Δ p-c, Δ p-T, Q-Limit
Protection class	IPx4D
Size	Rp 1 to DN 100
Rated pressure	6/10 bar or 6 bar (special version: 10 bar or 16 bar)
EEI	≤ 0.20


The plastic sealing tube prevents eddy-current losses



IR-Stick (in connection with a computer)

Wilo-Stratos MAXO

Tomorrow's technology for today's systems

Wilo-Stratos MAXO
Heating and cooling, solar thermal and geothermal energy, sanitary hot water (Z)

With optimised and innovative energy-saving features, the Wilo-Stratos MAXO sets new standards for commercial HVAC and drinking water applications in terms of energy efficiency.

Its outstanding user-friendliness makes operating the pump easier than ever before.

Special features/benefits:

→ Intuitive operation by means of application-guided settings with the Setup Guide plus the combination of a new display and operating button using Green Button Technology.

→ Maximum energy efficiency thanks to the combination of optimised and innovative energy-saving functions (e.g. No-Flow Stop).

→ Optimum system efficiency thanks to new and innovative intelligent control functions, such as Dynamic Adapt plus, Multi-Flow Adaptation, T-const. and ΔT-const.

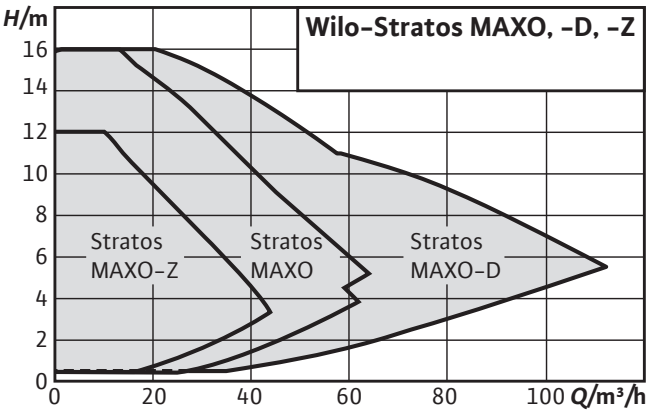
→ Latest communication interfaces (e.g. Bluetooth) for connection to mobile devices and direct pump networking for multiple pump control via Wilo Net.

→ Maximum convenience in electrical installation thanks to a clearly arranged and spacious terminal room and the optimised Wilo-Connector.

Wilo-Stratos MAXO, -D.
The twin model

Wilo-Stratos MAXO, -Z.
Specifically developed for drinking water application

Technical data	Wilo-Stratos MAXO Wilo-Stratos MAXO-D	Wilo-Stratos MAXO-Z
Permissible temperature range	-10 °C to +110 °C	Drinking water up to 3.57 mmol/l (20 °dH): 0 °C to +80 °C Heating water: -10 °C to +110 °C
Mains connection	1~230 V, 50/60 Hz	1~230 V, 50/60 Hz
Protection class	IPx4D	IPx4D
Screwed connection or flange connection (depending on type)	Rp 1 to DN 100 twin model: Rp1 1/4 to DN 80	Rp 1 to DN 65
Max. operating pressure	6/10 bar or 6 bar (special version: 10 bar or 16 bar)	6/10 bar (special version: 16 bar)
Insulation class	F	F
	Emitted interference in acc. with: EN 61800-3:2004+A1:2012 / residential environment (C1) Interference resistance in acc. with: EN 61800-3:2004+A1:2012 / industrial environment (C2)	



Wilo-Medana CH1-L

Wilo-Medana CH
Efficient system integration.

New

Wilo- Medana
Cooling, heating, water supply and pression boosting

Non self-priming horizontal multistage pump
Dedicated to cooling, industrial heating, industrial process.

Wilo-Medana is the new generation of horizontal multistage pumps.
The pump suits requirements of the OEM market in terms of:

Compactness for an optimized integration in the customer's system
Adaptability as some customizations are possible upon request
Robustness thanks to it compatibility with high temperature or fluid composition and finally **Components quality**.

Special features Medana CH1-LC

- Compact design for a better integration
- Cataphoretic coating
- Reinforced pump feet
- Possible vertical position

Both non self-priming, multistage pumps reach maximum hydraulic output. Their compact and robust design with corrosion-resistant components and suitability for use in ambient temperatures up to 50 °C offer a large field of application for pump integration in larger systems.

Special features Medana CH1-L

- Material with media contact in stainless steel
- Big diameter for filling and emptying the pump
- Compact design
- High accessibility for fixing the screws on the ground
- Cataphoretic lantern
- Reinforced pump feet
- **Option:** quick connection with captive nuts on hydraulics interfaces

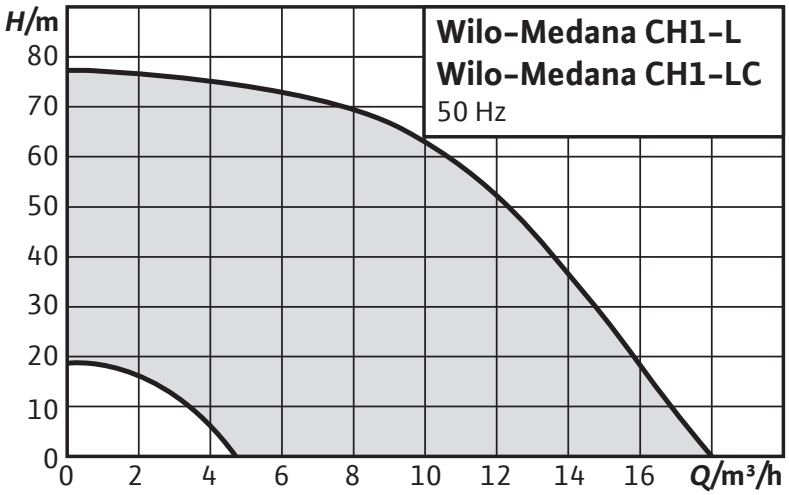
A special housing with captive nuts is offered as an option on Wilo-Medana CH1-L for a quicker and easier installation and pump integration into systems

Thanks to its drinking water certificate, the Wilo-Medana CH1-L is also suitable for drinking water applications.

Wilo-Medana
Efficient system integration.

Technical data

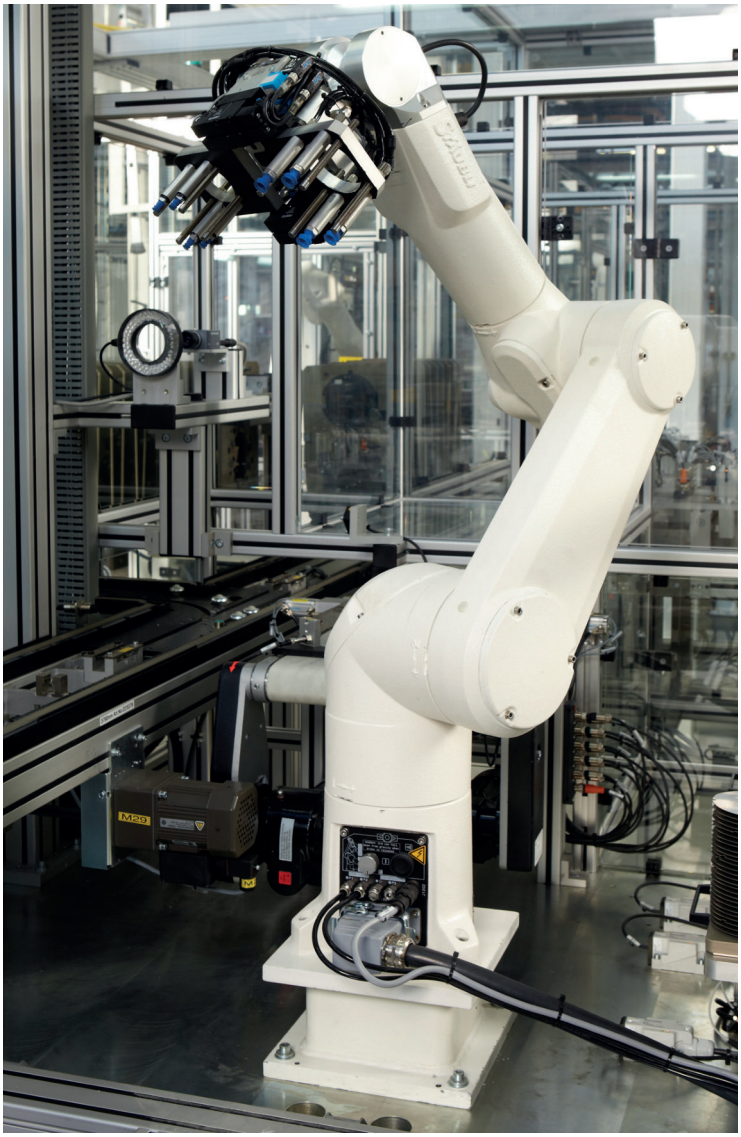
	Wilo-Medana CH1-LC	Wilo-Medana CH1 -L
Nominal Pressure	10 bars (STS impellers)	10 bars (STS impellers)
Max. delivery head H	86 m	100 m
Max. volume flow Q	20 m³/h	20 m³/h
Volume flow series	2-4-6-10 m³/h	2-4-6-10 m³/h (16 m³/h for 2021)
Motor type / Efficiency	Asynchronous / 3~IE2<0,75 kW>IE3 Asynchronous / 1~IE1/IE2	Asynchronous / 3~IE2<0,75 kW>IE3 Asynchronous / 1~IE1/IE2
Motor power	0,37 to 3 kW	0,37 to 4.2 kW (5.5 kW with vertical extension)
Electrical connection	1~230 V, 50 Hz 3~/400/460 V, 50/60 Hz	1~230 V, 50/60 Hz 3~380/400/460 V, 50/60 Hz
Protection class (pump)	IPX5	IPX5
Ambient temperature range	-15°C to +50° C	-15°C to +50° C (-30° C upon request)
Fluid temperature range	-20°C to +90°C	-20°C to +120°C (-30°C upon request)
Structure	Modular	Stamped
Drinking water standards		ACS/WRAS/UBA list



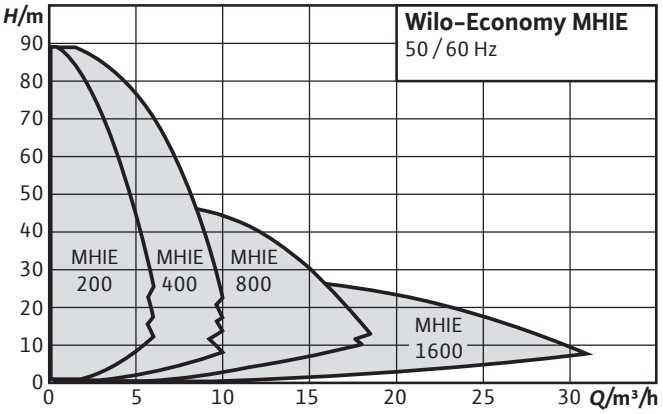
Wilo-Economy MHIE

Water supply and pressure boosting, industrial circulation systems, Cooling water circulation systems, Washing systems

Non self-priming multistage pump with integrated frequency converter.



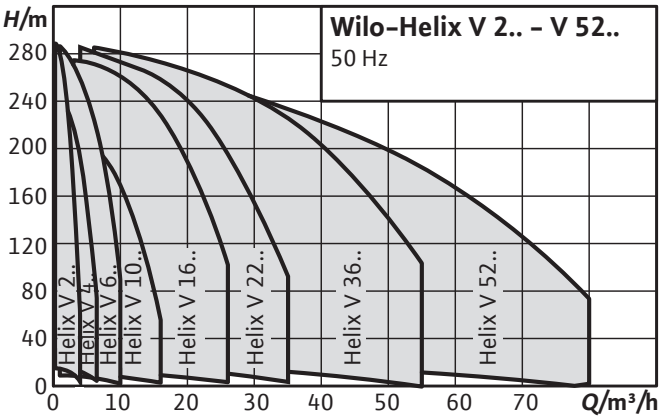
Technical data	
Fluid temperature (EPDM)	-15 °C to +110 °C
Max. volume flow Q	36 m³/h
Max. delivery head H	84 m
Mains connection	1~: 50Hz 230 V, 60Hz 220/240V 3~: 50Hz 400V, 60Hz 380/440V
Protection class	IP 54
Size	Rp 1, Rp 1 ¼, Rp 1 ½ or Rp 2
Rated pressure	10 bar



Wilo-Helix V
Heating and cooling, 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.

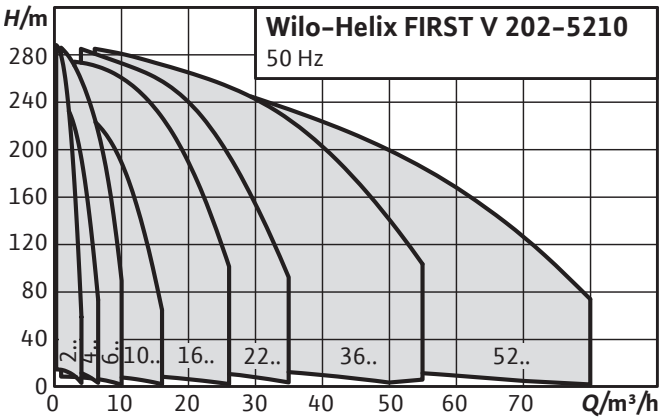
Technical data	
Fluid temperature	-30 °C to +120 °C
Max. volume flow Q	80 m³/h
Max. delivery head H	280 m
Mains connection	3~: 50 Hz 400 V, 60 Hz 380/460 V
Protection class	IP 55
Size	PN 16 and PN 25
Rated pressure	16/25/30 bar
MEI	≥ 0.7 (Helix V16: MEI ≥ 0.5)



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.

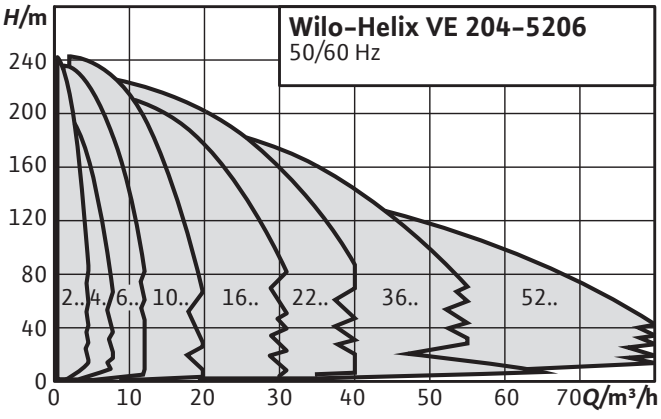
Technical data	
Fluid temperature	-20 °C to +120 °C
Max. volume flow Q	80 m³/h
Max. delivery head H	140 m
Mains connection	3~: 50 Hz 400 V, 60 Hz 380/460 V
Protection class	IP 55
Size	PN 16/PN 25/PN 30
Rated pressure	16/25/30 bar
MEI	≥ 0.7 (Helix FIRST V16: MEI ≥ 0.5)



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.

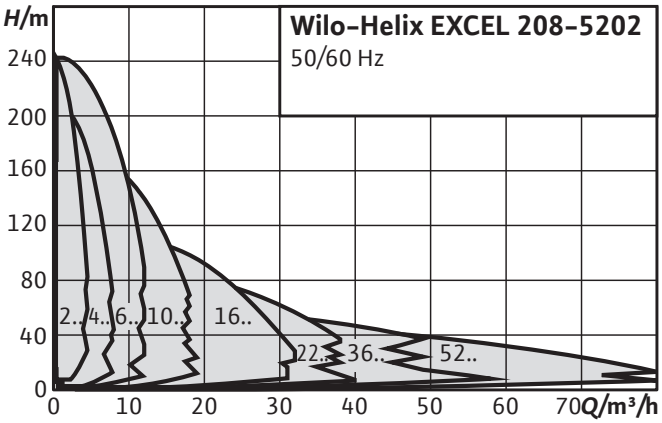
Technical data	
Fluid temperature	-30 °C to +120 °C
Max. volume flow Q	80 m³/h
Max. delivery head H	240 m
Mains connection	3~ 50/60 Hz from 380 V -10% to 440 V +6%
Protection class	IP 55
Size	PN 16 and PN 25
Rated pressure	16/25 bar
MEI	≥ 0.7 (Helix VE16: MEI ≥ 0.5)



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, washing systems and irrigation.

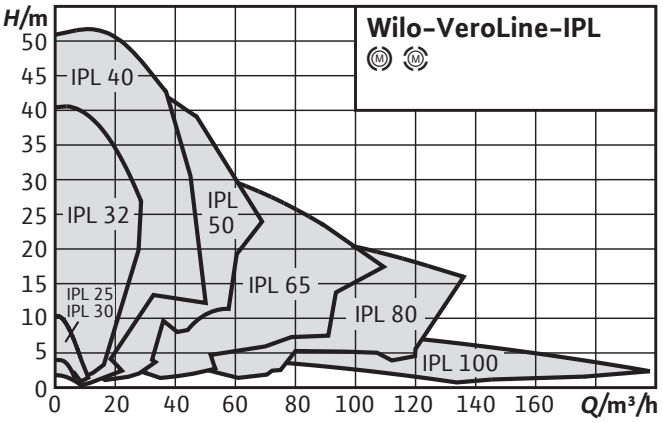
Technical data	
Fluid temperature	-30 °C to +120 °C
Max. volume flow Q	58 m³/h
Max. delivery head H	240 m
Mains connection	3~ 50/60 Hz from 380 V -10% to 460 V +10%
Protection class	IP 55
Size	PN 16 and PN 25
Rated pressure	16/25 bar
MEI	≥ 0.7 (Helix EXCEL 16: MEI ≥ 0.5)



Wilo-VeroLine-IPL
Heating and cooling

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.

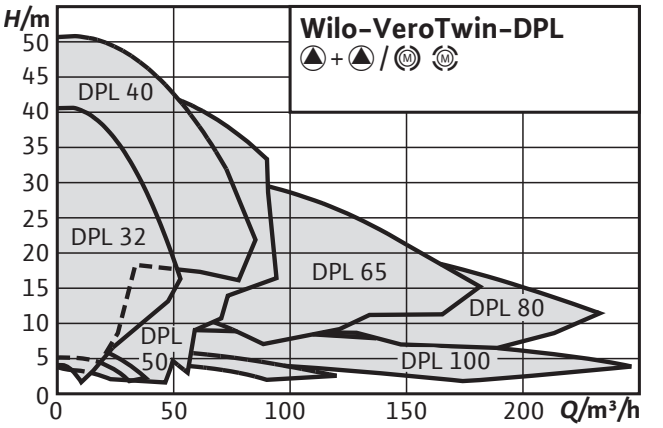
Technical data	
Fluid temperature	-20 °C to +120 °C
Max. volume flow Q	195 m³/h
Max. delivery head H	52 m
Mains connection	3~400 V, 50 Hz
Protection class	IP 55
Size	Rp 1 to DN 100
Rated pressure	10 bar (special version: 16 bar)
MEI	≥ 0.4



Wilo-VeroTwin-DPL
Heating and cooling

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.

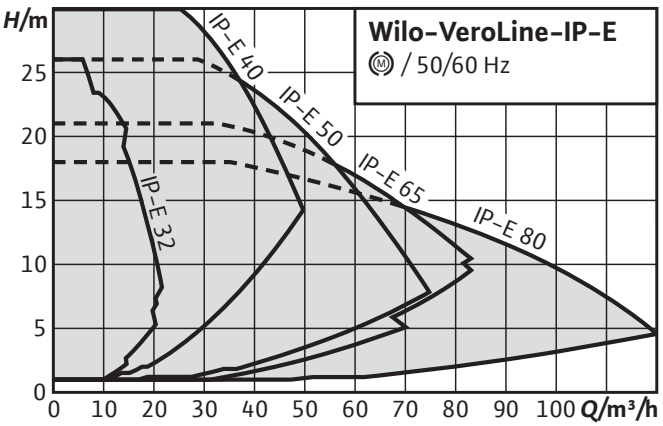
Technical data	
Fluid temperature	-20 °C to +120 °C
Max. volume flow Q	245 m³/h
Max. delivery head H	52 m
Mains connection	3~400 V, 50 Hz
Protection class	IP 55
Size	DN 32 to DN 100
Rated pressure	10 bar (special version: 16 bar)
MEI	≥ 0.4



Wilo-VeroLine-IP-E
Heating and cooling

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.

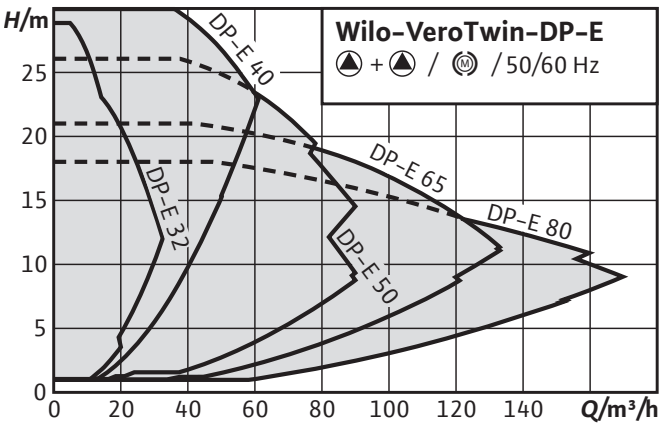
Technical data	
Fluid temperature	-20 °C to +120 °C
Max. volume flow Q	120 m³/h
Max. delivery head H	30 m
Mains connection	3~ 50/60 Hz from 380 V -6% to 440 V +6%
Protection class	IP 55
Size	DN 32 to DN 80
Rated pressure	10 bar (special version: 16 bar)
MEI	≥ 0.4



Wilo-VeroTwin-DP-E
Heating and cooling

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.

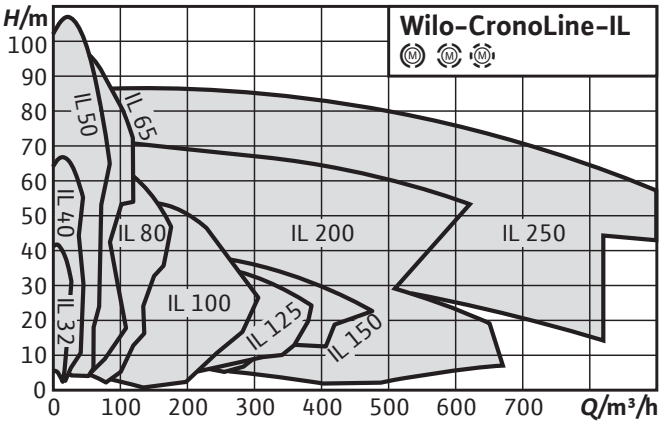
Technical data	
Fluid temperature	-20 °C to +120 °C
Max. volume flow Q	170 m³/h
Max. delivery head H	30 m
Mains connection	3~ 50/60 Hz from 380 V -6% to 440 V +6%
Protection class	IP 55
Size	DN 32 to DN 80
Rated pressure	10 bar (special version: 16 bar)
MEI	≥ 0.4



Wilo-CronoLine-IL
Heating and cooling

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.

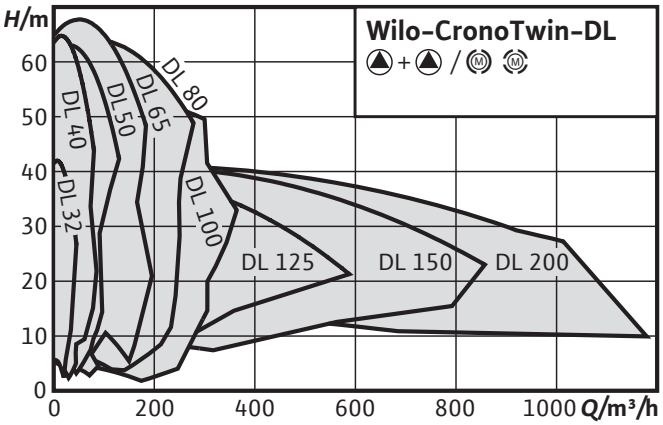
Technical data	
Fluid temperature	-20°C to +140°C
Max. volume flow Q	900 m³/h
Max. delivery head H	110 m
Mains connection	3~: 50 Hz 400 V, 60 Hz 380/460 V
Protection class	IP 55
Size	DN 32 to DN 250
Rated pressure	16 bar up to 120°C 13 bar up to 140°C
MEI	≥ 0.4



Wilo-CronoTwin-DL
Heating and cooling

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.

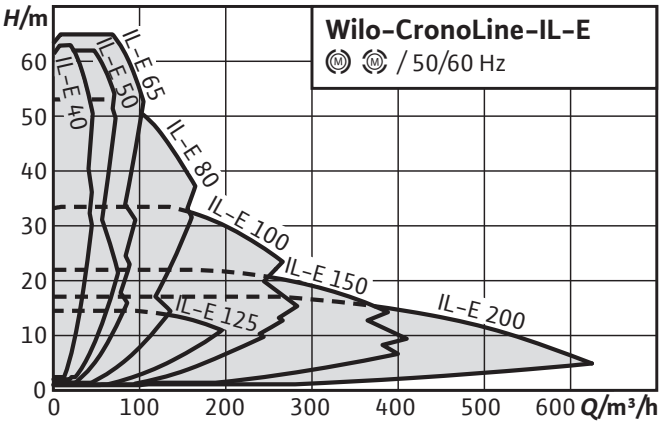
Technical data	
Fluid temperature	-20°C to +140°C
Max. volume flow Q	1,170 m³/h
Max. delivery head H	67 m
Mains connection	3~: 50 Hz 400 V, 60 Hz 380/460 V
Protection class	IP 55
Size	DN 32 to DN 200
Rated pressure	16 bar up to 120°C 13 bar up to 140°C
MEI	≥ 0.4



Wilo-CronoLine-IL-E
Heating and cooling

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.

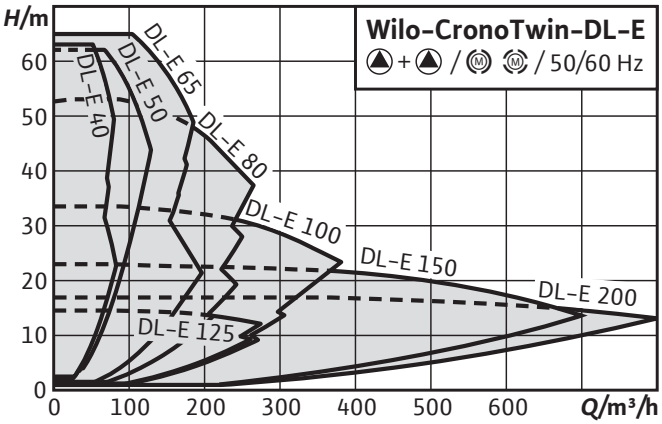
Technical data	
Fluid temperature	-20°C to +140°C
Max. volume flow Q	900 m³/h
Max. delivery head H	110 m
Mains connection	3~ 50/60Hz from 380 V -6% to 440 V +6%
Protection class	IP 55
Size	DN 40 to DN 200
Rated pressure	16 bar up to 120°C 13 bar up to 140°C
MEI	≥ 0.4



Wilo-CronoTwin-DL-E
Heating and cooling

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.

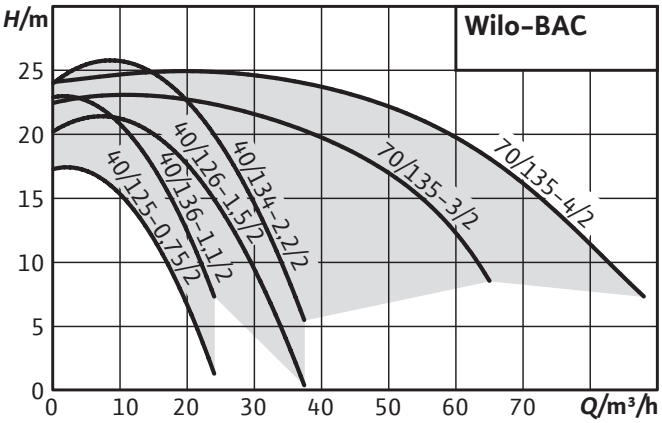
Technical data	
Fluid temperature	-20°C to +140°C
Max. volume flow Q	800 m³/h
Max. delivery head H	63 m
Mains connection	3~ 50/60Hz from 380 V -6% to 440 V +6%
Protection class	IP 55
Size	DN 40 to DN 200
Rated pressure	16 bar up to 120°C 13 bar up to 140°C
MEI	≥ 0.4



Wilo-BAC
Cooling

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.

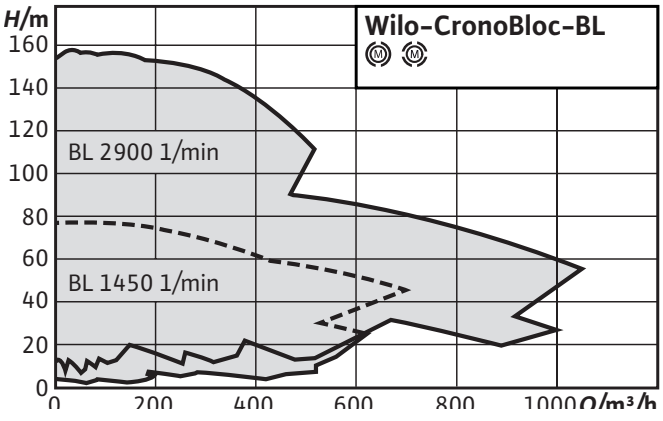
Technical data	
Fluid temperature	-15 °C to +60 °C
Max. volume flow Q	81 m³/h
Max. delivery head H	25 m
Mains connection	3~400 V, 50 Hz
Protection class	IP 54
Size	G2/G1½ or Victaulic 2"/3"
Rated pressure	10 bar
MEI	≥ 0.6



Wilo-CronoBloc-BL
Heating and cooling

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.

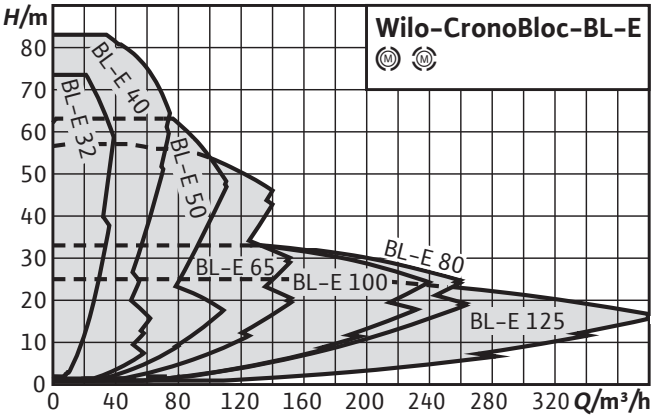
Technical data	
Fluid temperature	-20 °C to +140 °C
Max. volume flow Q	1100 m³/h
Max. delivery head H	159 m
Mains connection	3~400 V, 50 Hz
Protection class	IP 55
Size	DN 32 to DN 125
Rated pressure	16 bar
MEI	≥ 0.4



Wilo-CronoBloc-BL-E
Heating and cooling

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

Maximum performance at the highest levels of energy efficiency.

Easy-to-read display with Green Button Technology

Flexible incorporation into building automation using optionally integrable interface modules

The Wilo-Stratos GIGA is the ideal high-efficiency pump for use in heating, air-conditioning and cooling applications in buildings where large volume flows have to be pumped with large delivery heads.

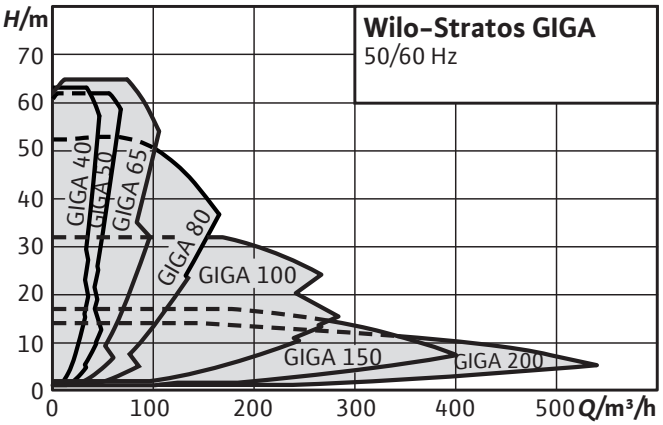
Special features/benefits:

- Innovative high-efficiency pump for maximum overall efficiency levels
- High-efficiency EC motor with efficiency class IE5 in accordance with IEC 60034-30-2
- Optional interfaces for connection to building automation using insertable IF-modules
- IE5 motor
- Green button for an easy adjustment and operation

Wilo-Stratos GIGA
Heating and cooling

High-efficiency in-line 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 seal. Pumping heating water (acc. to VDI 2035), cold water and water-glycol mixtures without abrasive substances in heating, cold water and cooling systems.

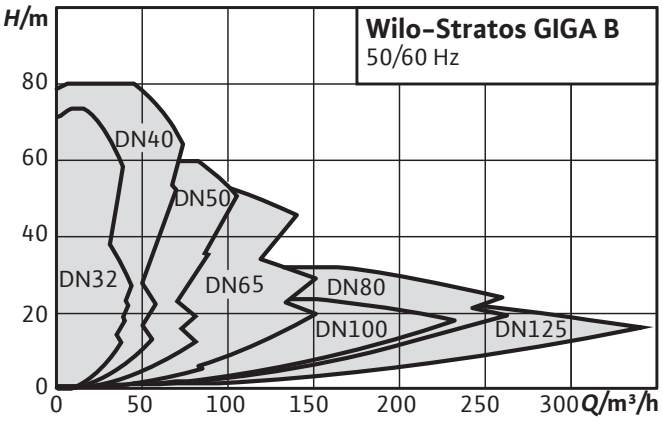
Technical data	
Fluid temperature	16 bar up to 120°C 13 bar up to 140°C
Max. volume flow Q	550 m³/h
Max. delivery head H	65 m
Mains connection	3~ 50/60 Hz from 380 V -6% to 480 V +10%
Protection class	IP 55
Size	DN 40 to DN 200
Rated pressure	16 bar up to +120 °C 13 bar up to +140 °C
MEI	≥ 0.4 (types up to 6.0 kW: MEI ≥0.7)



Wilo-Stratos GIGA B
Heating and cooling

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 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	16 bar up to 120°C 13 bar up to 140°C
Max. volume flow Q	340 m³/h
Max. delivery head H	80 m
Mains connection	3~ 50/60 Hz from 380 V -6% to 480 V +10%
Protection class	IP 55
Size	DN 32/DN 125
Rated pressure	16 bar up to +120 °C 13 bar up to +140 °C
MEI	≥ 0.4 (types up to 6.0 kW: MEI ≥0.7)




Imagine you
never had to check
quality again.

OEM Solutions for operations management.
Industry 4.0 serving your own supply chain.

We have joined the adventure of the Industry of the Future with projects dedicated to improve daily business and respond better to the market needs.

Performance indicators, digitalization of component traceability are part of the actions already implemented in our production unit in Aubigny (France) to make our internal supply chain more effective and, thus, streamline yours.

We use logistic solutions which enable you to better manage your production processes.

Our strong partnership with carriers who are organized with their own integrated transportation system, allows us to deliver everywhere in Europe. Here again, we are able to follow merchandise from departure to delivery thanks to computerized traceability.

Our worldwide presence through the Wilo subsidiaries allows us to send our products also by sea and air.

More steps towards the Industry of the Future

Training by cognitive assistance, collaborative robotics, geolocalisation of tools for preventive maintenance are all projects that contribute to modernize and make our production workflow more effective.

Investments such as automated assembly lines and latest-generation robot for acoustic measurements enable us to offer solutions designed with cutting-edge technology.

Use of connected glasses for assisting production units

Last September 2018, automatic guided vehicles were implemented in the production unit of Aubigny (France). They improve internal delivery performance and modernise logistics operations.

OEM Solutions Service.
A comprehensive service offer

Training loop installed in Aubigny (France)

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 dependable 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 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.

- → Experienced in application know-how, our experts analyse, qualify and validate our products in our customers' applications.
- → With various approved methods, experts check each development step in order to continuously maintain 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.

Prototype offer

We are able to provide you protoypes enabling you to make your own tests on hydraulics.

- → Only two working days are needed to produce prototypes for standard and high-efficiency small circulators.
- → The team works 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.
- → For multistage pumps, our R&D team is also able to respond to specific technical requests and build prototypes. The standard delivery time for these products is 4 weeks, depending on the availability of specific components.

OEM Residential and Commercial Solutions expertise

Based on our solid 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)

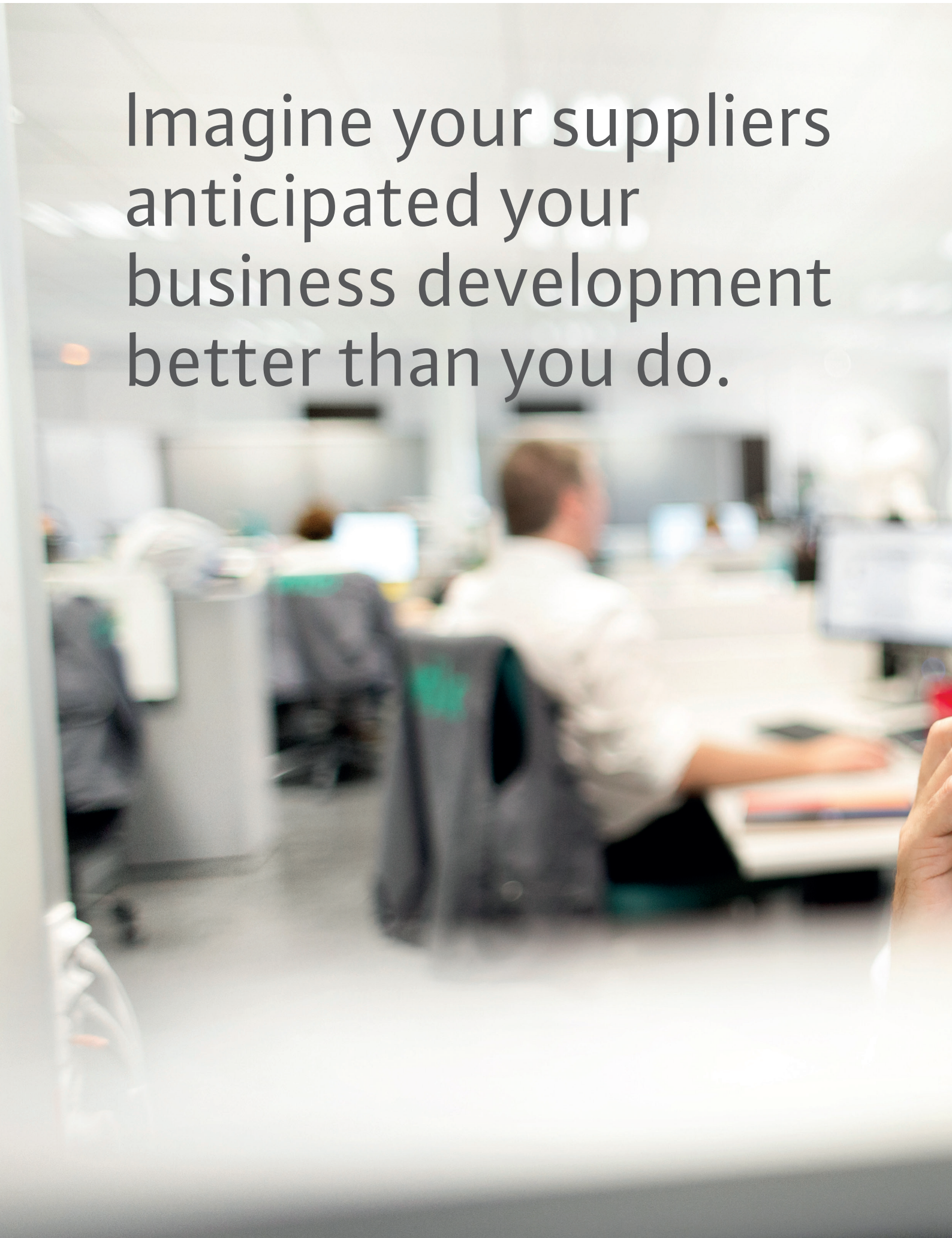
The training sessions can be organised worldwide, on-site or off-site.

Market Intelligence

We continuously monitor market trends to support our customers worldwide.

- → Our figures on the HVAC market trend such as demand, growth, products and innovation all over the world are continuously updated.
- → We share this knowledge, as a partner, to offer state-of-the-art technology products and give support with any new project.

No matter where our customer needs support or wants to realise a project, being present all over the world allows us to let our customers benefit from our market experience, application know-how and our market analyses.


Imagine your suppliers
anticipated your
business development
better than you do.

OEM Solutions for Industry.
A tailored solution for any industry application.

Alongside operational reliability and energy efficiency, material quality and the maintenance of standards also have a particular role to play in industry. Industrial locations will also change with the transformation of cityscapes. With the highest quality requirements for our products, Wilo systems offer high efficiency, long service life and operational reliability for a variety of industrial applications.

OEM Solutions for demanding industry applications

High pressure applications
Our pumps are designed also to meet the demand of high pressure applications. We can offer customized solutions depending on your environment:

→ 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. Our pumps can allow proper temperature control within cooling systems for:

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

Special installation requirements
Some installations require a specific pump design rather than the standard one. Wilo proposes certified pumps and solutions to mount pumps horizontally in case of:

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

Focus on multistage range and options

Standard multistage products are defined to cover various applications. In order to fully meet your requirements, our OEM team offers and develops customized solutions according to your specific needs or applications.

Motors offer a large panel of possible customizations responding to specific industry requirements and environments.

Motor options on multistage vertical pumps :
- → Special voltages on request (Ex : 500V 50Hz)
- → UL approved motors for USA and Canada
- → Oversized motors to be used with high viscosity or density fluids
- → 4 pole motors
- → Various motor brands
- → Specific protection with regards to the environment
- → ...

Motor options on multistage horizontal pumps :
- → Thermal protection PTC or PTO
- → Hirschmann plug for quick connection
- → Oversized motors to be used with high viscosity or density fluids
- → ...

In order to adapt the pumps to all the fluids, we offer different seals:

Shaft seal options :
- → EPDM or FKM can be chosen
- → Shaft seals made with different materials for high viscosity fluid or high temperature fluid or ...
- → Possibility to have a cartridge for easy maintenance of the shaft seal
- → ...

Other customizations are possible such as :
- → PN16, PN25 or Victaulic connections
- → Labs free pumps
- → Atex pumps
- → ...

The list is not exhaustive. We invite you to consult us for any other requirement you may need.

wilo

2190328/500/1703/DDD

Wilo Group
Strategic Business Unit OEM

Wilo Intec
50 av. Casella
F-18700 Aubigny sur Nère
T +33 2 48 81 62 62
www.wilo-oem.com
oem@wilo.com

Pioneering for You