Wilo-Para The most reliable OEM solution.

The high-efficiency circulator series Wilo-Para is dedicated to heating and air-conditioning applications.

Its compact design and predefined standard settings make commissioning and setup very easy. Wilo-Para is compact and offers a large choice of pump housings and options. This enables a very high integration flexibility.

The Wilo-Para series, especially with its LIN control mode, allows many development opportunities in the field of intelligent functionalities. This new generation of circulators is dedicated to make your life easier.

Special features/benefits:

- \rightarrow High integration flexibility due to compatibility with former standard and high-efficiency series and a wide range of specific pump housings
- \rightarrow Easy installation thanks to a compact and standardised design with front access to signal connector and screws
- \rightarrow Exists in 3 different control modes to respond better to your specific needs: - Self-controlled (SC) version allowing several regulation modes and settings, easy to handle thanks to the green push button combined with a LED interface

- External control mode through iPWM signal for direct information on pump status and flow estimation directly from the pump itself

- External LIN control mode allowing many data exchanges between the pump and the appliance to go a step further on digitalisation. Extended functionalities through the LIN extended mode LINX

 \rightarrow High system protection due to integrated functionalities such as air venting, manual restart as well as reset to factory settings upon control mode





Wilo-Para R

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 (Wilo-Para Z series)





RSB axial cast iron pump housing

KU composite inline pump housing





BSL composite pump housing

KSL composite pump housing





NFSL composite pump housing

HU 15 composite pump housing









Inline cast iron pump housing



RSL composite inline pump housing



MSL composite pump housing



HU 25 composite pump housing

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Technical data	
Fluid temperature	-10°C to +95°C (0°C to +95°C for OEM composite pump housings)
Ambient temperature	0 °C to +70 °C
Self-control mode SC with green push button	$\Delta p-v$, $\Delta p-c$, constant speed (Manual air venting and manual dejamming function)
External control mode	iPWM1 signal, LIN bus
Hydraulic performance	4/6/7/8/9 m
Size	130/180 mm DN 15/DN 25/DN 30
Mains connection	1~230 V, 50/60 Hz
Protection class	IPX4D
Max. operating pressure	10 bar (OEM composite pump housing : 6 bar)
EEI	≤ 0.20 (4/6/7) ≤ 0.21 (8/9)





Wilo-Para SCU

The OEM solution dedicated to low head-loss applications.



The high-efficiency circulator Wilo-Para SCU is dedicated to low head loss systems in heating applications.

With adjusted predefined settings, commissioning and setup are very easy.

Technical data	
Fluid temperature	-10°C to +95°C (0°C to +95°C for OEM composite pump housings)
Ambient temperature	0 °C to +70 °C
Self-control mode SCU with green push button	$\Delta p-v$, $\Delta p-c$, 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
Mains connection	1~230 V, 50/60 Hz
Protection class	IPX4D
Max. operating pressure	10 bar (OEM composite pump housing : 6 bar)
EEI	≤ 0.20 (6/7) ≤ 0.21 (8/9)



<image>

Wilo-Para SCA The high efficiency replacement solution.



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	–10 °C to +95 °C
Ambient temperature	0 °C to +70 °C
Self-control mode SCA with green push button	Constant speed (Manual air venting, manual dejamming function, EEI mode)
Hydraulic performance	6/7 m
Size	130/180 mm DN 15/DN 25/DN 30
Mains connection	1~230 V, 50/60 Hz
Protection class	IPX4D
Max. operating pressure	10 bar
EEI	≤ 0.20 (6) ≤ 0.21(7)









Wilo-Para ST The OEM solution for solar thermal application.



The high-efficiency circulator series Wilo-Para ST is dedicated to solar thermal applications.

Its high static pressure and compatibility with wide temperature variations make this circulator fully adapted to this specific application.

Technical data	
Fluid temperature	-20°C to +110°C
Ambient temperature	0 °C to +70 °C
Self-control mode SC with green push button	Δ p–v, Δ p–c, constant speed (Manual air venting and manual dejamming function)
External control mode	iPWM2 signal, LIN bus
Hydraulic performance	6/7/8/13 m
Size	130/180 mm DN 15/DN 25/DN 30
Mains connection	1~230 V, 50/60 Hz
Protection class	IPX4D
Max operating pressure	10 bar
EEI	≤ 0.20 (6/7) ≤ 0.21 (8) ≤ 0.23 (13)





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. 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
Self-control mode SC with green push button	Δ p-v, Δ p-c, constant speed (Manual air venting and manual dejamming function)
External control mode	iPWM1 signal, LIN bus
Hydraulic performance	6/7/8/9 m
Size	130/180 mm DN 15/DN 25/DN 30
Mains connection	1~230 V, 50/60 Hz
Protection class	IPX4D
Max operating pressure	10 bar
EEI	≤ 0.20 (6/7) ≤ 0.21 (8/9)





Wilo-Para STG The highly versatile OEM solution.



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-controlled mode functions (SC) and the external control function via both bi-directional iPWM1 & 2 signals.

Technical data	
Fluid temperature	-20 °C to +110 °C
Ambient temperature	0 °C to +70 °C
Self-control mode SC with green push button	Ext, Δ p–c, constant speed (Manual air venting and manual dejamming function)
External control mode	iPWM1 and iPWM2 signal
Hydraulic performance	7/8 m
Size	130/180 mm DN 15/DN 25/DN 30
Mains connection	1~230 V, 50/60 Hz
Protection class	IPX4D
Max. operating pressure	10 bar
EEI	≤ 0.20 (7) ≤ 0.21 (8)





Wilo-Para Z The OEM solution for domestic hot water applications.



The high-efficiency circulator series Wilo-Para Z is dedicated to domestic hot water applications. It offers a large series of pump housings (bronze, composite, stainless steel) and is specially designed with materials compatible with drinkable & domestic hot water.

Technical data	
Fluid temperature	+3 °C to +85 °C
Ambient temperature	0 °C to +70 °C
Self-control mode SC with green push button	$\Delta p-v$, $\Delta p-c$, constant speed (Manual air venting and manual dejamming function)
External control mode	iPWM2 signal
Hydraulic performance	4/7/8 m
Size	130/180 mm DN 15/DN 25
Mains connection	1~230 V, 50/60 Hz
Protection class	IPX4D
Max. operating pressure	10 bar





Wilo-Para R The OEM safe solution.



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.

Technical data	
Fluid temperature	-10°C to +95°C (0°C to +95°C for OEM composite pump housings)
Ambient temperature	0 °C to 70 °C
Self-control mode SCU with green push button	Δ p-c, Δ p-v, constant speed (SC as an option)
External control mode	iPWM1 signal, LIN
Hydraulic performance	6/7/8/9 m
Size	130/180 mm DN 15/DN 25/DN 30
Mains connection	1~230 V, 50/60 Hz
Protection class	IPX4D
Max. operating pressure	10 bar (OEM composite pump housing : 6 bar)
EEI	≤ 0.20 (6/7) ≤ 0.21 (8/9)





Wilo-Para */H The valuable solution for heat pump application.



The high efficiency circulator Wilo-Para */H offers a valuable protection in case of integration into a heat pump using low flammable refrigerant gas R32.

Technical data	
Fluid temperature	-10°C to +95°C (0°C to +95°C for OEM composite pump housings)
Ambient temperature	0°C to +70°C
Self–control mode SCU with green push button	$\Delta p-v$, $\Delta p-c$, constant speed (Manual air venting and manual dejamming function)
External control mode	iPWM1 signal, LIN
Hydraulic performance	6/7/8/9 m
Size	130/180 mm DN 15/DN 25/DN 30
Mains connection	1~230 V, 50/60 Hz
Protection class	IPX4D
Max. operating pressure	10 bar (OEM composite pump housing : 6 bar)
EEI	≤ 0.20 (6/7) ≤ 0.21 (8/9)



Sustainable OEM solutions

A considerable portion of global energy consumption is caused by electric pumps. High-efficiency pumps are electronically controlled and adapted to the system's actual requirements. A pump with this technology consumes up to 80 percent

less electricity than a comparable uncontrolled pump. In this way, our high-efficiency OEM solutions Wilo-Para make a significant contribution to climate protection.

As outstanding example, Wilo-Para R brings an additional contribution as it is designed to be used with refrigerants having a significant low greenhouse gas potential**. And to complete our offer, we also provide the option "H" on our Wilo-Para range for usage with R32 gas which has a medium global warming potential**.

Sustainable and safe

Both circulators respond to the new regulation EN IEC 60335-2-40 with specific requirements for new generations of electrically operated heat pumps. They ensure the protection of the heating or cooling systems against any risk of flammable gas leakage with a protection of the electronics against any fire ignition and a terminal box made of self-extinguising material.

** according to ASHRAE refrigerant gases classification.

2 solutions for 2 kinds of refrigerant gases

Wilo-Para R compatible with A3 gases up to R290

The product range Wilo-Para R is specifically designed for applications using high flammable** A3 refrigerants (up to R290 gas).

It is suitable for heat pump systems of all kinds, and for cooling and geothermal applications. The Wilo-Para R ensures that the circulator not be source of potential flammability in case of leakage of gas



Wilo-Para*/H compatible with **R32** gas

The variant "H" is offered as the valuable solution on Wilo-Para range in case of integration into heat pumps or air-conditioning applications using the low flammable** gas R32.

As Wilo-Para R, it offers a valuable protection of the electronics against any fire ignition and a terminal box made of self-extinguising material.





Easily recognisable with pictogram R32 on the front plate.