

Wilo-OEM Solutions

Let's move. Together.



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.

Wilo Group
Strategic Business Unit OEM

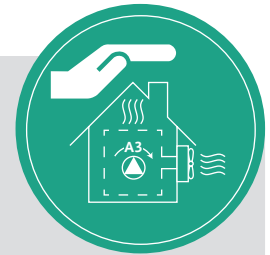
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Wilo-OEM Solutions

Wilo-Para R

The OEM Safe Solution



Wilo-Para R

A bit of context

Up until today, most heat pump installations used HCFC (HydroChloroFluocarbon) refrigerant gases but these have a high Global Warming Potential (GWP)

In 1987, the Montreal Protocol scheduled phase out of these HCFC and CFC (ChloroFluorocarbon) refrigerant gases. Most should be replaced by more eco-friendly alternative refrigerants by 2030

Today, natural and more environmentally friendly refrigerant gases are starting to be used in the applications but they remain highly flammable

This is why, Wilo designed a new series of circulators Wilo-Para R, compliant with application under EN 60335-2-40 directive using those A3 gases* (up to R290), the cleanest and with the highest level of flammability

ASHRAE Refrigerant gases classification

	Category	GWP level
Non flammable gas	A1 (CFC, HCFC)	High GWP
Low flammable gas	A2L (R32)	Medium GWP
Flammable gas	A2	Low GWP
Highly flammable gas	A3 (R290)	Very low GWP

*A3 Refrigerant gases list

Application	Current Refrigerants	Alternative Refrigerants	GWP	
Refrigeration and A/C (including Heat Pump)	R-134a	R-290 (Propane)	3,3	
		R-600a (Isobutane)	3	
		R-600 (Butane)	3	
A/C (in particular split units)	R-410a	R-1270 (Propylene)	2	
			R-407c	2
			R-22	2

Wilo-Para R

Customer benefits

→ The high efficiency circulator series Wilo-Para R responds perfectly to the new regulation EN 60335-2-40 on A3 refrigerant gases 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 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

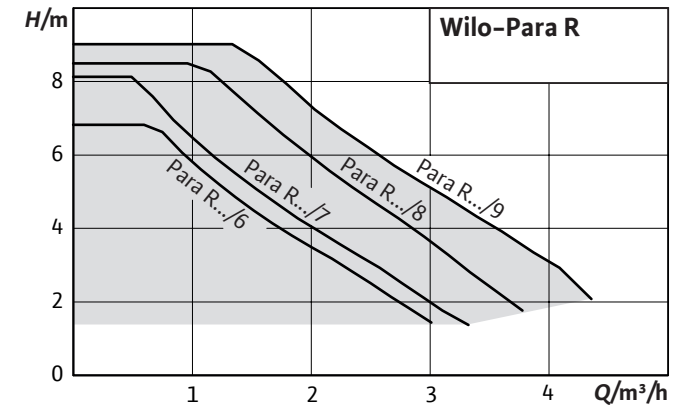
**The connection for external control is with mandatory rated safety extra-low voltage SELV (U)<20V (including tolerance) in order to be complied with IEC or EN IEC 60335-2-40 (electrical heat pumps, air conditioners and dehumidifiers). This input voltage has to be checked by the customer for each pump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

Wilo-Para R

Product information



Wilo-Para R



Technical data

Fluid temperature	- 20 °C to +95 °C
Ambient temperature	0 °C to 70 °C
Self-controlled mode	Δp-c, Δp-v, cst speed
External control	iPWM1 and iPWM2 signal, LIN
Hydraulic performance	6/7/8/9 m
Size	130-180mm DN15-25-30
EEL	≤ 0.20