

Wilo-Yonos MAXO/-D/-Z



en Installation and operating instructions

Fig. I:

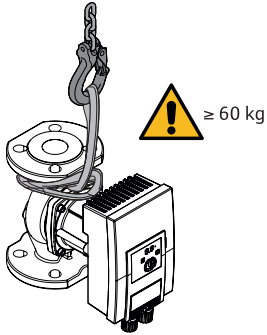


Fig. II:

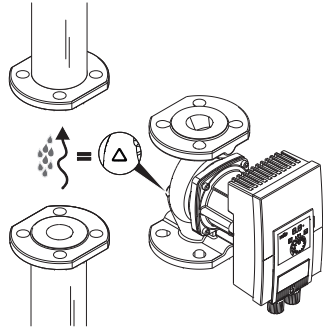


Fig. III

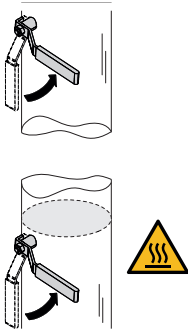


Fig. IV

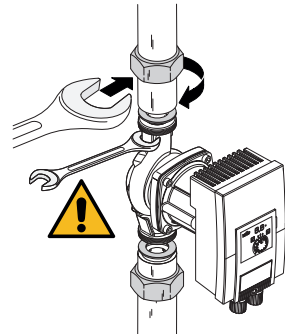


Fig. V

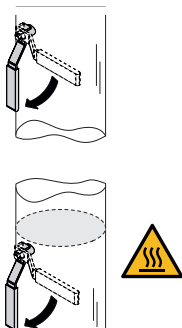
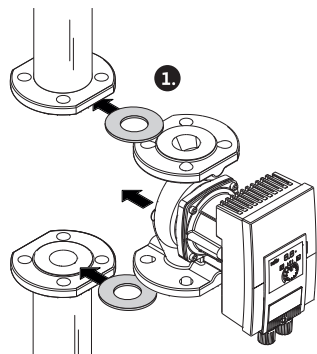


Fig. VI



Item	Name
1	Pump housing
2	Motor
3	Control module
4	LED display and fault signal LED
5	Operating button
6	Plug

Table 1: Description of the pump

The high-efficiency pumps Wilo-Yonos MAXO, Wilo-Yonos MAXO-D and Wilo-Yonos MAXO-Z in the version with flange or threaded pipe union are glandless pumps with a permanent magnet rotor and integrated differential pressure control.

There is a control module (Fig. 1, item 3) on the motor housing, which controls the pump and provides an SSM interface. Depending on the chosen application or control function, speed or differential pressure will be controlled. For all differential pressure control functions, the pump continuously adapts to the system's changing power requirements.

Power limit

The pump is fitted with a power-limiting function, which prevents overload. This may have an operational influence on the delivery rate.

5.1 Permissible installation

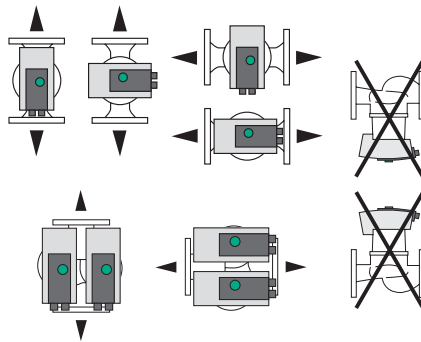


Fig. 2: Permissible installation positions

5.2 Type key

Example: Yonos MAXO-D 32/0.5-11

Yonos MAXO	Pump designation
	Single pump (without code letter)
-D	Twin-head pump
-Z	Single pump for domestic hot water circulation systems
32	Flange connection DN 32

Example: Yonos MAXO-D 32/0.5-11

0.5-11	0.5: Minimum delivery head in m 11: Maximum delivery head in m at Q = 0 m ³ /h
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5.3 Technical data**Technical data Yonos MAXO /-D**

Specification	Value
Permissible fluid temperature	-20 °C ... +110 °C
Permissible ambient temperature	-20 °C ... +40 °C
Maximum relative humidity	≤ 95 %
Mains voltage	1~ 230 V +/-10 % 50/60 Hz
Residual current ΔI	≤ 3.5 mA
Electromagnetic compatibility	Interference emission in acc. with: EN 61800-3:2004+A1:2012/residential environment (C1) Interference immunity in acc. with: EN 61800-3:2004+A1:2012/industrial environment (C2)
Emissions sound–pressure level	< 52 dB(A)
Energy efficiency index (EEI)	See rating plate
Temperature class	TF110 (see IEC 60335-2-51)
Pollution degree	2 (IEC 60664-1)
Max. permissible operating pressure	PN 6/10

For further instructions see rating plate and catalogue.

Technical data Yonos MAXO-Z

Specification	Value
Permissible fluid temperature	0 °C ... +80 °C (for short periods (2 h): +110 °C)
Permissible ambient temperature	0 °C ... +40 °C
Maximum relative humidity	≤ 95 %
Mains voltage	1~ 230 V +/-10 % 50/60 Hz
Residual current ΔI	≤ 3.5 mA

Specification	Value
Electromagnetic compatibility	Interference emission in acc. with: EN 61800-3:2004+A1:2012/residential environment (C1) Interference immunity in acc. with: EN 61800-3:2004+A1:2012/industrial environment (C2)
Emissions sound–pressure level	< 52 dB(A)
Energy efficiency index (EEI)	See rating plate
Temperature class	TF80 (see IEC 60335-2-51)
Pollution degree	2 (IEC 60664-1)
Max. permissible operating pressure	PN 6/10

For further instructions see rating plate and catalogue.

5.4 Min. inlet pressure

Nominal diameter	Fluid temperature		
	-20 °C to +50 °C 0 °C to +50 °C ¹⁾	up to +95 °C	up to +110 °C
G 1½	0.3 bar	1.0 bar	1.6 bar
G 2	0.3 bar	1.0 bar	1.6 bar
DN 32	0.3 bar	1.0 bar	1.6 bar
DN 40	0.5 bar	1.2 bar	1.8 bar
DN 50	0.5 bar	1.2 bar	1.8 bar
DN 65	0.7 bar	1.5 bar	2.3 bar
DN 80	0.7 bar	1.5 bar	2.3 bar
DN 100	0.7 bar	1.5 bar	2.3 bar

Table 2: Min. inlet pressure

¹⁾Yonos MAXO-Z



NOTICE

Effective up to 300 m above sea level. For higher altitudes +0.01 bar/100 m.

For higher fluid temperatures, fluids of lower density, higher flow resistances or lower air pressure, adjust the values accordingly.

The maximum installation height is 2000 metres above MSL.

5.5 Scope of delivery

- Pump