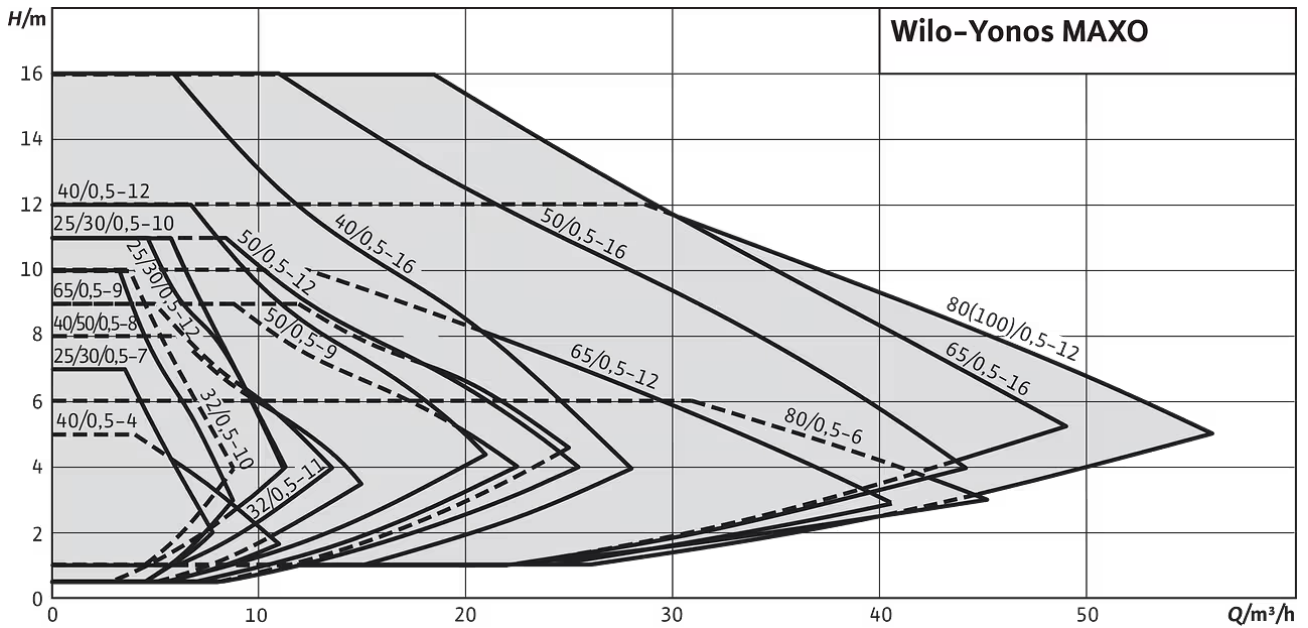


Wilo-Yonos MAXO





Design

Glandless circulator with threaded connection or flange connection, EC motor with automatic power adjustment.

Application

Hot-water heating systems of all kinds, air-conditioning systems, closed cooling circuits, industrial circulation systems.

Equipment/function

Operating modes

- > Δp-c for constant differential pressure
- > Δp-v for variable differential pressure
- > n = constant (3 speed stages)

Manual functions

- > Setting the operating mode
- > Setting of pump output (delivery head)
- > Setting the speed stages

Automatic functions

- > Infinitely variable power adjustment according to the operating mode
- > Deblocking function
- > Soft start
- > Integrated full motor protection

Signal and display functions

- > Collective fault signal (potential-free NC contact)
- > Fault signal light
- > LED segment display for displaying the delivery head and fault codes
- > Display of the configured speed stage (C1, C2 or C3)

Equipment

- > Wrench attachment point on pump body (for threaded pipe union pumps)
- > Quick electrical connection with Wilco plug. For the connection of the mains and SSM lines, with integrated strain relief
- > For flange-end pumps: Flange versions
 - > Standard version for DN 40 to DN 65 pumps: PN 6/10 combination flange (PN 16 flange according to EN 1092-2) for PN 6 and PN 16 counter flanges
 - > Standard version for DN 80/DN 100 pumps: PN 6 flange (designed for PN 16 according to EN 1092-2) for PN 6 counter flange

Typekey

Example: **Wilco-Yonos MAXO 30/0.5-12**
Yonos MAXO High-efficiency pump (screw-end or flange-end pump), electronically controlled
30/ Nominal connection diameter
0.5-12 Nominal delivery head range [m]

Technical data

- > Permissible temperature range of -20°C to +110°C
- > Mains connection 1~230 V, 50/60 Hz
- > Protection class IP X4D
- > Flange connection DN 32 to DN 80
- > Max. operating pressure of standard version: 6/10 bar or 6 bar (special version: 10 bar)

Materials

- › Pump housing: grey cast iron with cathoretic coating
- › Shaft: Stainless steel
- › Bearing: carbon, metal impregnated
- › Impeller: Plastic

Scope of delivery

- › Pump
- › Including gaskets for threaded connection
- › Including washers for flange screws (for nominal connection diameters DN 32 – DN 65)
- › Including installation and operating instructions

Accessories

- › Screwed connections for threaded connection
- › Counter flanges for flange connection
- › Adapter fittings
- › Thermal insulation

Data sheet

Hydraulic data

Maximum operating pressure P_N	10 bar
Head max H_{max}	7.5 m
Flow max Q_{max}	8.1 m ³ /h
Minimum suction head at 50 °C m	3 m
Minimum suction head at 95 °C m	10 m
Minimum suction head at 110 °C	16 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.08 A
Max current I_{max}	1 A
Rated power P_2	90 W
Min. speed n_{min}	1000 1/min
Max. speed n_{max}	3700 1/min
Power consumption $P_{1 min}$	5 W
Power consumption $P_{1 max}$	120 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PPE/PS-GF30
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DN_d	G 1½
Pipe connection on the suction side DN_s	G 1½
Port-to-port length L_0	180 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	10 bar
Head max H_{max}	10.9 m
Flow max Q_{max}	9.5 m ³ /h
Minimum suction head at 50 °C m	3 m
Minimum suction head at 95 °C m	10 m
Minimum suction head at 110 °C	16 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.1 A
Max current I_{max}	1.5 A
Rated power P_2	140 W
Min. speed n_{min}	1000 1/min
Max. speed n_{max}	4450 1/min
Power consumption $P_{1 min}$	5 W
Power consumption $P_{1 max}$	190 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PPE/PS-GF30
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DNd	G 1½
Pipe connection on the suction side DNs	G 1½
Port-to-port length $L0$	180 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	10 bar
Head max H_{max}	12.1 m
Flow max Q_{max}	11.8 m ³ /h
Minimum suction head at 50 °C m	3 m
Minimum suction head at 95 °C m	10 m
Minimum suction head at 110 °C	16 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.15 A
Max current I_{max}	1.33 A
Rated power P_2	200 W
Min. speed n_{min}	1000 1/min
Max. speed n_{max}	4800 1/min
Power consumption $P_{1 min}$	10 W
Power consumption $P_{1 max}$	305 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PPE/PS-GF30
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DNd	G 1½
Pipe connection on the suction side DNs	G 1½
Port-to-port length $L0$	180 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	10 bar
Head max H_{max}	7.5 m
Flow max Q_{max}	8.1 m ³ /h
Minimum suction head at 50 °C m	3 m
Minimum suction head at 95 °C m	10 m
Minimum suction head at 110 °C	16 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.08 A
Max current I_{max}	1 A
Rated power P_2	90 W
Min. speed n_{min}	1000 1/min
Max. speed n_{max}	3700 1/min
Power consumption $P_{1 min}$	5 W
Power consumption $P_{1 max}$	120 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PPE/PS-GF30
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DNd	G 2
Pipe connection on the suction side DNs	G 2
Port-to-port length $L0$	180 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	10 bar
Head max H_{max}	10.9 m
Flow max Q_{max}	9.5 m ³ /h
Minimum suction head at 50 °C m	3 m
Minimum suction head at 95 °C m	10 m
Minimum suction head at 110 °C	16 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.1 A
Max current I_{max}	1.5 A
Rated power P_2	140 W
Min. speed n_{min}	1000 1/min
Max. speed n_{max}	4450 1/min
Power consumption $P_{1 min}$	5 W
Power consumption $P_{1 max}$	190 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PPE/PS-GF30
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DNd	G 2
Pipe connection on the suction side DNs	G 2
Port-to-port length $L0$	180 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	10 bar
Head max H_{max}	12.1 m
Flow max Q_{max}	11.8 m ³ /h
Minimum suction head at 50 °C m	3 m
Minimum suction head at 95 °C m	10 m
Minimum suction head at 110 °C	16 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.15 A
Max current I_{max}	1.33 A
Rated power P_2	200 W
Min. speed n_{min}	1000 1/min
Max. speed n_{max}	4800 1/min
Power consumption $P_{1 min}$	10 W
Power consumption $P_{1 max}$	305 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PPE/PS-GF30
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DNd	G 2
Pipe connection on the suction side DNs	G 2
Port-to-port length LO	180 mm

Data sheet

Hydraulic data

Maximum operating pressure PN	10 bar
Head max H_{max}	10.8 m
Flow max Q_{max}	10.6 m ³ /h
Minimum suction head at 50 °C m	3 m
Minimum suction head at 95 °C m	10 m
Minimum suction head at 110 °C	16 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.1 A
Max current I_{max}	1.5 A
Rated power P_2	140 W
Min. speed n_{min}	1000 1/min
Max. speed n_{max}	4450 1/min
Power consumption $P_{1 min}$	5 W
Power consumption $P_{1 max}$	190 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PPE/PS-GF30
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DNd	DN 32
Pipe connection on the suction side DNs	DN 32
Port-to-port length $L0$	220 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	10 bar
Head max H_{max}	9.6 m
Flow max Q_{max}	16.5 m ³ /h
Minimum suction head at 50 °C m	3 m
Minimum suction head at 95 °C m	10 m
Minimum suction head at 110 °C	16 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.15 A
Max current I_{max}	1.33 A
Rated power P_2	200 W
Min. speed n_{min}	1000 1/min
Max. speed n_{max}	4800 1/min
Power consumption $P_{1 min}$	10 W
Power consumption $P_{1 max}$	305 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PPE/PS-GF30
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DNd	DN 32
Pipe connection on the suction side DNs	DN 32
Port-to-port length $L0$	220 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	10 bar
Head max H_{max}	5.5 m
Flow max Q_{max}	12.7 m ³ /h
Minimum suction head at 50 °C m	3 m
Minimum suction head at 95 °C m	10 m
Minimum suction head at 110 °C	16 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.09 A
Max current I_{max}	1 A
Rated power P_2	90 W
Min. speed n_{min}	1200 1/min
Max. speed n_{max}	3700 1/min
Power consumption $P_{1 min}$	7 W
Power consumption $P_{1 max}$	120 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PPS-GF40
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DN_d	DN 40
Pipe connection on the suction side DN_s	DN 40
Port-to-port length L_0	220 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	10 bar
Head max H_{max}	8.5 m
Flow max Q_{max}	18.1 m ³ /h
Minimum suction head at 50 °C m	3 m
Minimum suction head at 95 °C m	10 m
Minimum suction head at 110 °C	16 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.15 A
Max current I_{max}	1.33 A
Rated power P_2	200 W
Min. speed n_{min}	1200 1/min
Max. speed n_{max}	4800 1/min
Power consumption $P_{1 min}$	10 W
Power consumption $P_{1 max}$	305 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PPS-GF40
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DN_d	DN 40
Pipe connection on the suction side DN_s	DN 40
Port-to-port length L_0	220 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	10 bar
Head max H_{max}	12.6 m
Flow max Q_{max}	24.8 m ³ /h
Minimum suction head at 50 °C m	5 m
Minimum suction head at 95 °C m	12 m
Minimum suction head at 110 °C	18 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.17 A
Max current I_{max}	2.4 A
Rated power P_2	450 W
Min. speed n_{min}	950 1/min
Max. speed n_{max}	4600 1/min
Power consumption $P_{1 min}$	15 W
Power consumption $P_{1 max}$	550 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PPS-GF40
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DN_d	DN 40
Pipe connection on the suction side DN_s	DN 40
Port-to-port length L_0	250 mm

Data sheet

Hydraulic data

Maximum operating pressure PN	10 bar
Head max H_{max}	17.6 m
Flow max Q_{max}	27.6 m ³ /h
Minimum suction head at 50 °C m	7 m
Minimum suction head at 95 °C m	15 m
Minimum suction head at 110 °C	23 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.27 A
Max current I_{max}	3.5 A
Rated power P_2	650 W
Min. speed n_{min}	800 1/min
Max. speed n_{max}	3500 1/min
Power consumption $P_{1 min}$	30 W
Power consumption $P_{1 max}$	800 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PPE/PS-GF30
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DNd	DN 40
Pipe connection on the suction side DNs	DN 40
Port-to-port length LO	250 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	10 bar
Head max H_{max}	8.5 m
Flow max Q_{max}	18.3 m ³ /h
Minimum suction head at 50 °C m	3 m
Minimum suction head at 95 °C m	10 m
Minimum suction head at 110 °C	16 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.15 A
Max current I_{max}	1.33 A
Rated power P_2	200 W
Min. speed n_{min}	1200 1/min
Max. speed n_{max}	4800 1/min
Power consumption $P_{1 min}$	10 W
Power consumption $P_{1 max}$	305 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PPS-GF40
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DN_d	DN 50
Pipe connection on the suction side DN_s	DN 50
Port-to-port length L_0	240 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	10 bar
Head max H_{max}	10.3 m
Flow max Q_{max}	29.0 m ³ /h
Minimum suction head at 50 °C m	5 m
Minimum suction head at 95 °C m	12 m
Minimum suction head at 110 °C	18 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.17 A
Max current I_{max}	2.15 A
Rated power P_2	400 W
Min. speed n_{min}	950 1/min
Max. speed n_{max}	4100 1/min
Power consumption $P_{1 min}$	15 W
Power consumption $P_{1 max}$	490 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PPS-GF40
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DN_d	DN 50
Pipe connection on the suction side DN_s	DN 50
Port-to-port length L_0	280 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	10 bar
Head max H_{max}	12.9 m
Flow max Q_{max}	31.2 m ³ /h
Minimum suction head at 50 °C m	5 m
Minimum suction head at 95 °C m	12 m
Minimum suction head at 110 °C	18 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.17 A
Max current I_{max}	2.65 A
Rated power P_2	500 W
Min. speed n_{min}	950 1/min
Max. speed n_{max}	4600 1/min
Power consumption $P_{1 min}$	15 W
Power consumption $P_{1 max}$	600 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PPS-GF40
Shaft	Stainless steel
Bearing	Carbon, synthetic resin-impregnated

Installation dimensions

Pipe connection on the discharge side DN_d	DN 50
Pipe connection on the suction side DN_s	DN 50
Port-to-port length L_0	280 mm

Data sheet

Hydraulic data

Maximum operating pressure PN	10 bar
Head max H_{max}	16.6 m
Flow max Q_{max}	47.9 m ³ /h
Minimum suction head at 50 °C m	7 m
Minimum suction head at 95 °C m	15 m
Minimum suction head at 110 °C	23 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.3 A
Max current I_{max}	5.5 A
Rated power P_2	1050 W
Min. speed n_{min}	800 1/min
Max. speed n_{max}	3300 1/min
Power consumption $P_{1 min}$	40 W
Power consumption $P_{1 max}$	1250 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PPE/PS-GF30
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DNd	DN 50
Pipe connection on the suction side DNs	DN 50
Port-to-port length LO	340 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	10 bar
Head max H_{max}	10.1 m
Flow max Q_{max}	32.2 m ³ /h
Minimum suction head at 50 °C m	5 m
Minimum suction head at 95 °C m	12 m
Minimum suction head at 110 °C	18 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.17 A
Max current I_{max}	2.65 A
Rated power P_2	500 W
Min. speed n_{min}	950 1/min
Max. speed n_{max}	4100 1/min
Power consumption $P_{1 min}$	15 W
Power consumption $P_{1 max}$	600 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PP-LGF50
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DN_d	DN 65
Pipe connection on the suction side DN_s	DN 65
Port-to-port length L_0	280 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	10 bar
Head max H_{max}	11.7 m
Flow max Q_{max}	46.3 m ³ /h
Minimum suction head at 50 °C m	7 m
Minimum suction head at 95 °C m	15 m
Minimum suction head at 110 °C	23 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.3 A
Max current I_{max}	3.5 A
Rated power P_2	650 W
Min. speed n_{min}	800 1/min
Max. speed n_{max}	2800 1/min
Power consumption $P_{1 min}$	40 W
Power consumption $P_{1 max}$	800 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PPE/PS-GF30
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DN_d	DN 65
Pipe connection on the suction side DN_s	DN 65
Port-to-port length L_0	340 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	10 bar
Head max H_{max}	17.2 m
Flow max Q_{max}	57.3 m ³ /h
Minimum suction head at 50 °C m	7 m
Minimum suction head at 95 °C m	15 m
Minimum suction head at 110 °C	23 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.3 A
Max current I_{max}	6.4 A
Rated power P_2	1200 W
Min. speed n_{min}	800 1/min
Max. speed n_{max}	3400 1/min
Power consumption $P_{1 min}$	40 W
Power consumption $P_{1 max}$	1450 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PP-LGF50
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DN_d	DN 65
Pipe connection on the suction side DN_s	DN 65
Port-to-port length L_0	340 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	6 bar
Head max H_{max}	7.1 m
Flow max Q_{max}	50.9 m ³ /h
Minimum suction head at 50 °C m	7 m
Minimum suction head at 95 °C m	15 m
Minimum suction head at 110 °C	23 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.3 A
Max current I_{max}	3.5 A
Rated power P_2	650 W
Min. speed n_{min}	900 1/min
Max. speed n_{max}	2400 1/min
Power consumption $P_{1 min}$	40 W
Power consumption $P_{1 max}$	800 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PP-LGF50
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DN_d	DN 80
Pipe connection on the suction side DN_s	DN 80
Port-to-port length L_0	360 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	10 bar
Head max H_{max}	7.1 m
Flow max Q_{max}	50.9 m ³ /h
Minimum suction head at 50 °C m	7 m
Minimum suction head at 95 °C m	15 m
Minimum suction head at 110 °C	23 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.3 A
Max current I_{max}	3.5 A
Rated power P_2	650 W
Min. speed n_{min}	900 1/min
Max. speed n_{max}	2400 1/min
Power consumption $P_{1 min}$	40 W
Power consumption $P_{1 max}$	800 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PP-LGF50
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DN_d	DN 80
Pipe connection on the suction side DN_s	DN 80
Port-to-port length L_0	360 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	6 bar
Head max H_{max}	13.6 m
Flow max Q_{max}	63.3 m ³ /h
Minimum suction head at 50 °C m	7 m
Minimum suction head at 95 °C m	15 m
Minimum suction head at 110 °C	23 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.3 A
Max current I_{max}	6.8 A
Rated power P_2	1300 W
Min. speed n_{min}	900 1/min
Max. speed n_{max}	3300 1/min
Power consumption $P_{1 min}$	40 W
Power consumption $P_{1 max}$	1550 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PP-LGF50
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DN_d	DN 80
Pipe connection on the suction side DN_s	DN 80
Port-to-port length L_0	360 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	10 bar
Head max H_{max}	13.6 m
Flow max Q_{max}	63.3 m ³ /h
Minimum suction head at 50 °C m	7 m
Minimum suction head at 95 °C m	15 m
Minimum suction head at 110 °C	23 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.3 A
Max current I_{max}	6.8 A
Rated power P_2	1300 W
Min. speed n_{min}	900 1/min
Max. speed n_{max}	3300 1/min
Power consumption $P_{1 min}$	40 W
Power consumption $P_{1 max}$	1550 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PP-LGF50
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DN_d	DN 80
Pipe connection on the suction side DN_s	DN 80
Port-to-port length L_0	360 mm

Data sheet

Hydraulic data

Maximum operating pressure P_N	6 bar
Head max H_{max}	13.6 m
Flow max Q_{max}	63.3 m ³ /h
Minimum suction head at 50 °C m	7 m
Minimum suction head at 95 °C m	15 m
Minimum suction head at 110 °C	23 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.3 A
Max current I_{max}	6.8 A
Rated power P_2	1300 W
Min. speed n_{min}	900 1/min
Max. speed n_{max}	3300 1/min
Power consumption $P_{1 min}$	40 W
Power consumption $P_{1 max}$	1550 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PP-LGF50
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DN_d	DN 100
Pipe connection on the suction side DN_s	DN 100
Port-to-port length L_0	360 mm

Data sheet

Hydraulic data

Maximum operating pressure PN	10 bar
Head max H_{max}	13.6 m
Flow max Q_{max}	63.3 m ³ /h
Minimum suction head at 50 °C m	7 m
Minimum suction head at 95 °C m	15 m
Minimum suction head at 110 °C	23 m
Min. fluid temperature T_{min}	-20 °C
Max. fluid temperature T_{max}	110 °C
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C

Motor data

Energy efficiency index (EEI)	≤0.20
Mains connection	1~230 V ±10%, 50/60 Hz
Min current I_{min}	0.3 A
Max current I_{max}	6.8 A
Rated power P_2	1300 W
Min. speed n_{min}	900 1/min
Max. speed n_{max}	3300 1/min
Power consumption $P_{1 min}$	40 W
Power consumption $P_{1 max}$	1550 W
Emitted interference	EN 61800-3;2004+A1;2012 /residential area (C1)
Interference resistance	EN 61800-3;2004+A1;2012 /industrial environment (C2)
Threaded cable connection	2 x M20x1.5
Insulation class	F
Protection class	IPX4D

Materials

Pump housing	Grey cast iron
Impeller	PP-LGF50
Shaft	Stainless steel
Bearing	Carbon-graphite

Installation dimensions

Pipe connection on the discharge side DNd	DN 100
Pipe connection on the suction side DNs	DN 100
Port-to-port length LO	360 mm

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