

#### **Submittal Data**

PROJECT: UNIT TAG: TYPE OF SERVICE:		QUANTITY:
	TYPE OF SERVICE:	
REPRESENTATIVE:	SUBMITTED BY:	DATE:
ENGINEER:	APPROVED BY:	DATE:
CONTRACTOR:	ORDER NO.:	DATE:

#### MAGNA1 D 50-180 F



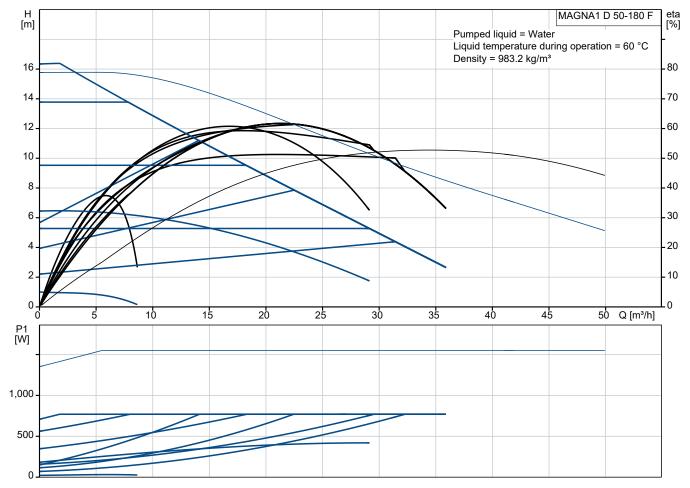
The MAGNA1 D circulator pump is ideal for basic performance needs in heating and cooling application. The pump offers peace of mind due to the security of supply obtained by having a redundant pump, resulting in improved uptime. The two pumps communicate wirelessly.

Note! Product picture may differ from actual product

Conditions	of Service
Liquid:	Water
Temperature:	60 °C
Specific Gravity:	0.985

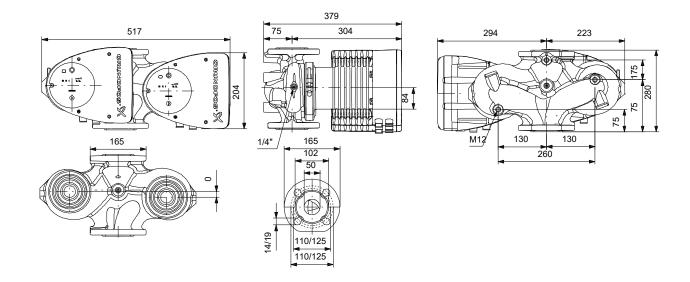
Pump Data	
Maximum operating pressure:	10 bar
Liquid temperature range:	-10 110 °C
Maximum ambient temperature:	40 °C
Flange standard:	DIN
Pipe connection:	DN 50
Product number:	On request

Motor Data				
P1 max:	22.44 785 W			
Mains frequency:	50 / 60 Hz			
Enclosure class:	X4D			
Insulation class:	F			





### **Submittal Data**



#### Materials:

Pump housing: Cast iron
Pump housing: EN-GJL-250
Pump housing: ASTM A48-250B
Impeller: PES 30%GF



**Date:** 26/09/2022

Qty. | Description

1 MAGNA1 D 50-180 F



Note! Product picture may differ from actual product

Product No.: On request

The Grundfos MAGNA1 D circulator pump is the simple option for a job well done.

With its high energy efficiency the product lives up to the EuP 2015 regulations ensuring substantial savings on electricity, and with its intuitive, user-friendly interface and maintenance-free design, MAGNA1 D is the ideal circulator pump for basic performance needs in applications where basic system control and monitoring are desired.

With this range of circulator pumps, everything from setup to basic control and monitoring are made easy. The pump is maintenance-free due to the canned-rotor type design.

MAGNA1 D offers peace of mind due to the security of supply obtained by having a redundant pump, resulting in improved uptime. The flow, and thereby constant comfort, is secured because of its ability to automatically switch between pump heads if one breaks down. The two pumps communicate wirelessly.

MAGNA1 D offers the possibility of monitoring the pump via the fault relay output. The digital start/stop input remotely controls the pump. The pump communicates wirelessly with the Grundfos GO Remote app and can also communicate via radio.

MAGNA1 D can work as main pump in both heating and cooling applications, including:

- Mixing loops
- · Heating surfaces
- Air-conditioning surfaces
- · Ground-source heat pump systems
- Smaller chiller applications.

MAGNA1 D is a single-phase pump and characterised by having the controller and operating panel integrated in the control box.

The pump housing is available in both cast-iron and stainless-steel versions.

The composite rotor can is carbon-fibre reinforced, the bearing plate and rotor cladding are made of stainless steel and the stator housing is made of aluminium.

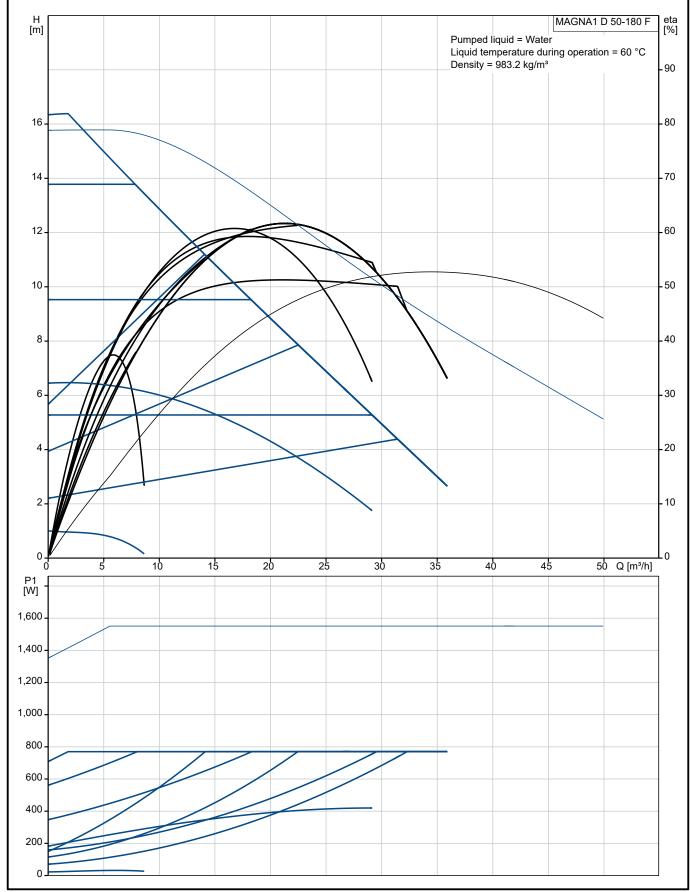
The power electronics are air-cooled.

The pump incorporates a 4-pole synchronous, permanent-magnet motor (PM motor). This motor type is characterised by higher efficiency than a conventional asynchronous squirrel-cage motor. The pump speed is controlled by an integrated frequency converter.



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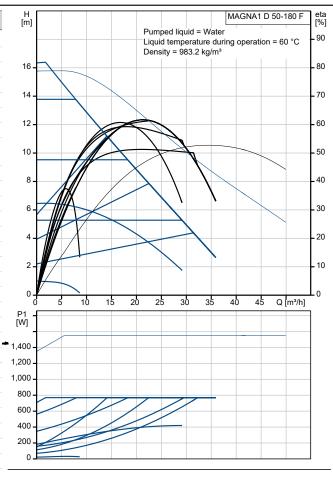
# On request MAGNA1 D 50-180 F

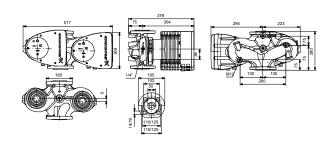


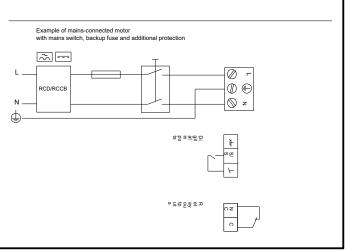


**Date**: 26/09/2022

Description	Value
General information:	
Product name:	MAGNA1 D 50-180 F
Product No:	On request
EAN number:	On request
Technical:	·
Head max:	180 dm
TF class:	110
Approvals:	CE,VDE,EAC,MOROCCO,UKCA, TSERCM,UkrSEPRO
Model:	С
Materials:	
Pump housing:	Cast iron
Pump housing:	EN-GJL-250
Pump housing:	ASTM A48-250B
Impeller:	PES 30%GF
Installation:	
Range of ambient temperature:	0 40 °C
Maximum operating pressure:	10 bar
Flange standard:	DIN
Pipe connection:	DN 50
Pressure rating:	PN 6/10
Port-to-port length:	280 mm
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-10 110 °C
Selected liquid temperature:	60 °C
Density:	983.2 kg/m³
Electrical data:	-
Power input - P1:	22.44 785 W
Mains frequency:	50 / 60 Hz
Rated voltage [V]:	1 x 230 V
Maximum current consumption:	0.23 3.46 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F
Others:	
Energy (EEI):	0.22
Environmental approvals:	CN ROHS,WEEE
Net weight:	36.3 kg
Gross weight:	44 kg
Shipping volume:	0.132 m³
Country of origin:	DE
Custom tariff no.:	84137030



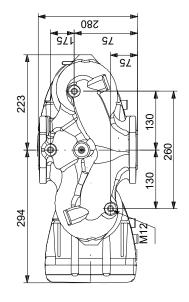


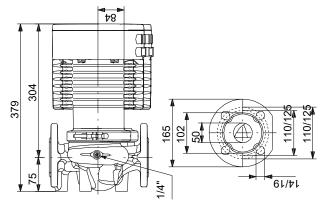


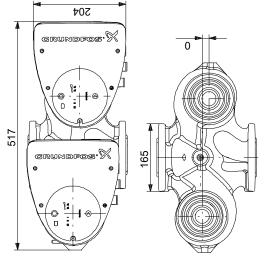


26/09/2022 Date:

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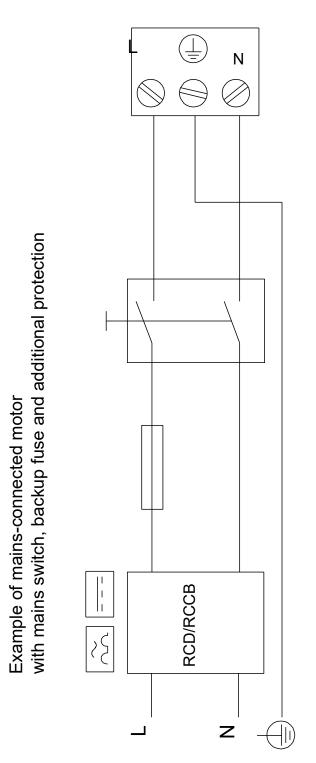
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.

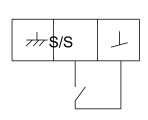


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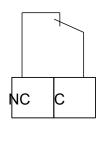
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### On request MAGNA1 D 50-180 F





Digital inputs



Relay outputs

Note! All units are in [mm] unless others are stated.



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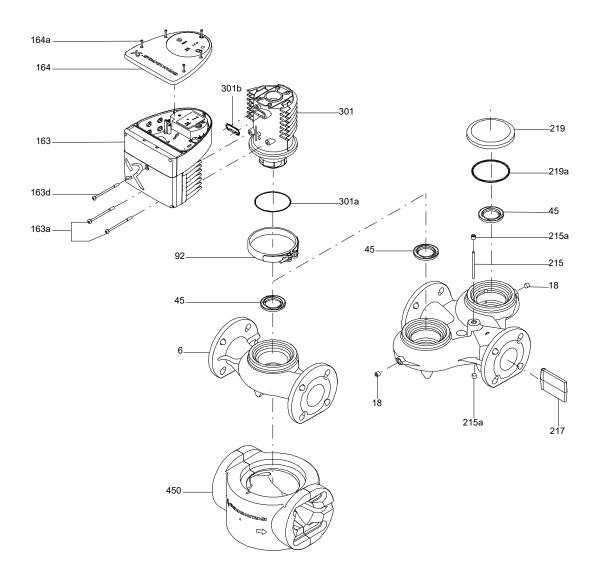
#### **Order Data:**

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Position	Your pos.	Product name	Amount		Total
		MAGNA1 D 50-180 F	1	On request	Price on request
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**Date:** 26/09/2022

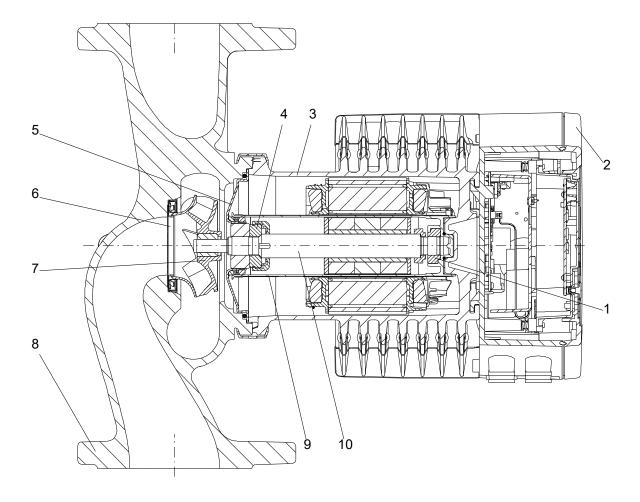
( TM054005 for Magna1 750-1600W)





**Date:** 26/09/2022

(TM069997 Magna1 ME/LA model C)





**Date:** 26/09/2022

# Spare parts MAGNA1 D 50-180 F, Product No. On request Produced After 1731 (production year and week number)

Pos	Description	Annotation	Classification Data		ty.	Unit
-	Kit, Control box conf. Head I			99426902 1		pcs
-	Kit,control box non-configured			99280445	5 1	
-	Control box cpl.					
-	Control box					
159c	Pan washer head screw					
164a	Screw DELTA PT					
164	Cover					
163	Control box					
163d	Pan head screw					
163a	Pan head screw					
301b	Protector					
	GSC				1	
-	Kit, Control box conf. Head II			99427021 1		pcs
-	Kit,control box non-configured			99280445	5 1	
-	Control box cpl.					
-	Control box					
159c	Pan washer head screw					
164a	Screw DELTA PT					
164	Cover					
163	Control box					
163d	Pan head screw					
163a	Pan head screw					
301b	Protector					
	GSC				1	
-	Kit, Cover			99280465 1		pcs
164a	Screw DELTA PT				5	
164	Cover				1	
-	Kit, Pump head			98148747 1		pcs
92	Clamp cpl.				1	
- 301	Pump head				1	
-	Stator w/housing cpl.					
301	Stator housing					
303	Rotor can cpl.					
- 304	Shaft w/impeller cpl.					
-	Bearing plate cpl.					
301a	O-ring					
-	Kit, Valve flap			96407255 1		pcs
215	Guide pin				1	
217	Valve flap				1	
-	Spare, Clamp			98148759 1		pcs
92	Clamp cpl.				1	
-	Spare, O-ring			98148761 1		pcs
301a	O-ring				1	
-	Pump housing cpl.			98660072 1		pcs
18	Pipe plug			96547615	2	