

Position	Qty.	Description
1	MAGNA3 50-120 F	<p>Product No.: 97924284</p> <p>MAGNA3 – More than a pump With its unrivalled efficiency, all-encompassing range and built-in communication capabilities plus functionalities replacing system components, the MAGNA3 is ideal for engineers and specifiers looking to create high-performance systems for buildings.</p> <p>This pump in the Grundfos Master Class will fit both heating and cooling applications perfectly, making it the obvious choice for almost any building project – old or new.</p> <p>The MAGNA3 is of the canned-rotor type, i.e. pump and motor form an integral unit without shaft seal and with only two gaskets for sealing. The bearings are lubricated by the pumped liquid.</p> <p>The innovative clamp with only one screw enables easy repositioning of the pump head.</p> <p>The MAGNA3 is a pump with no maintenance requirements and with extremely low Life Cycle Cost.</p> <p>The pump is characterised by the following:</p> <ul style="list-style-type: none"> • controller integrated in the control box • control panel with TFT display on the control box • control box prepared for optional CIM modules • built-in differential-pressure and temperature sensor • cast-iron pump housing (depending on model) • carbon-fibre-reinforced composite rotor can • stainless-steel bearing plate and rotor cladding • aluminium alloy stator housing • air-cooled power electronics <p>The MAGNA3 is a single-phase pump.</p> <p>Characteristic features</p> <ul style="list-style-type: none"> • AUTOADAPT. • FLOWADAPT and FLOWLIMIT (more than a pump function as it reduces the need for pump throttling valves). • Proportional-pressure control. • Constant-pressure control. • Constant-temperature control. • Constant-curve duty. • Max. or min. curve duty. • Automatic Night Setback. • No external motor protection required. • Insulating shells supplied with single-head pumps for heating systems. • Large temperature range where the liquid temperature and the ambient temperature are independent of each other. <p>Communication The MAGNA3 enables communication via the following:</p> <ul style="list-style-type: none"> • wireless Grundfos GO Remote • fieldbus communication via CIM modules • digital inputs • relay outputs • analog input (more than a pump function as heat energy meter)



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Position	Qty.	Description
		<p>Motor and electronic controller The MAGNA3 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. A differential-pressure and temperature sensor is incorporated in the pump.</p> <p>Liquid: Pumped liquid: Water Liquid temperature range: -10 .. 110 °C Liquid temperature during operation: 60 °C Density: 983.2 kg/m³</p> <p>Technical: TF class: 110 Approvals on nameplate: CE,VDE,EAC,CN ROHS</p> <p>Materials: Pump housing: Cast iron EN-GJL-250 ASTM A48-250B Impeller: PES 30%GF</p> <p>Installation: Range of ambient temperature: 0 .. 40 °C Maximum operating pressure: 10 bar Flange standard: DIN Pipe connection: DN 50 Pressure rating: PN6/10 Port-to-port length: 280 mm</p> <p>Electrical data: Power input - P1: 20 .. 513 W Mains frequency: 50 Hz Rated voltage: 1 x 230 V Maximum current consumption: 0.22 .. 2.3 A Enclosure class (IEC 34-5): X4D Insulation class (IEC 85): F</p> <p>Others: Energy (EEI): 0.17 Net weight: 18.2 kg Gross weight: 20.3 kg Shipping volume: 0.046 m³ Country of origin: DE Custom tariff no.: 84137030</p>



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Description	Value
General information:	
Product name:	MAGNA3 50-120 F
Product No:	97924284
EAN number:	5710626493593
Technical:	
Head max:	120 dm
TF class:	110
Approvals on nameplate:	CE,VDE,EAC,CN ROHS
Model:	D
Materials:	
Pump housing:	Cast iron
	EN-GJL-250
	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:	PN6/10
Port-to-port length:	280 mm
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-10 .. 110 °C
Liquid temperature during operation:	60 °C
Density:	983.2 kg/m ³
Electrical data:	
Power input - P1:	20 .. 513 W
Mains frequency:	50 Hz
Rated voltage:	1 x 230 V
Maximum current consumption:	0.22 .. 2.3 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F
Others:	
Energy (EEI):	0.17
Net weight:	18.2 kg
Gross weight:	20.3 kg
Shipping volume:	0.046 m ³
Country of origin:	DE
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