

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

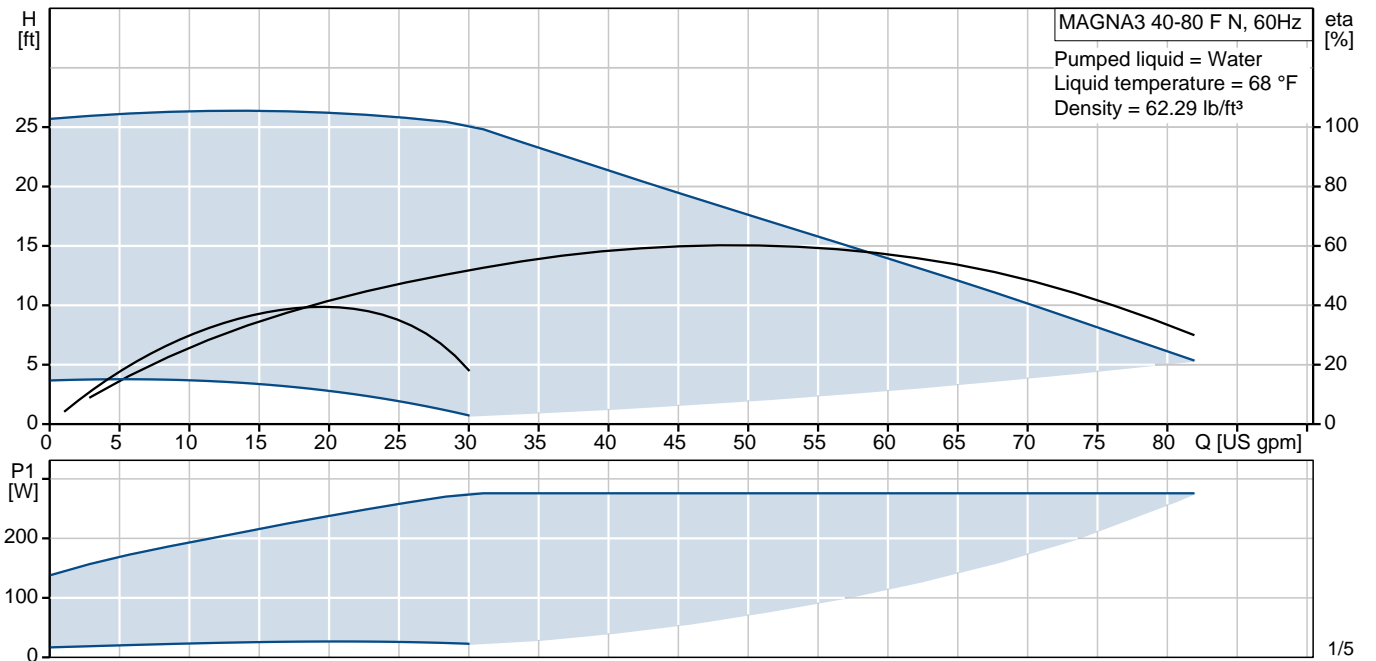
MAGNA3 40-80 F N

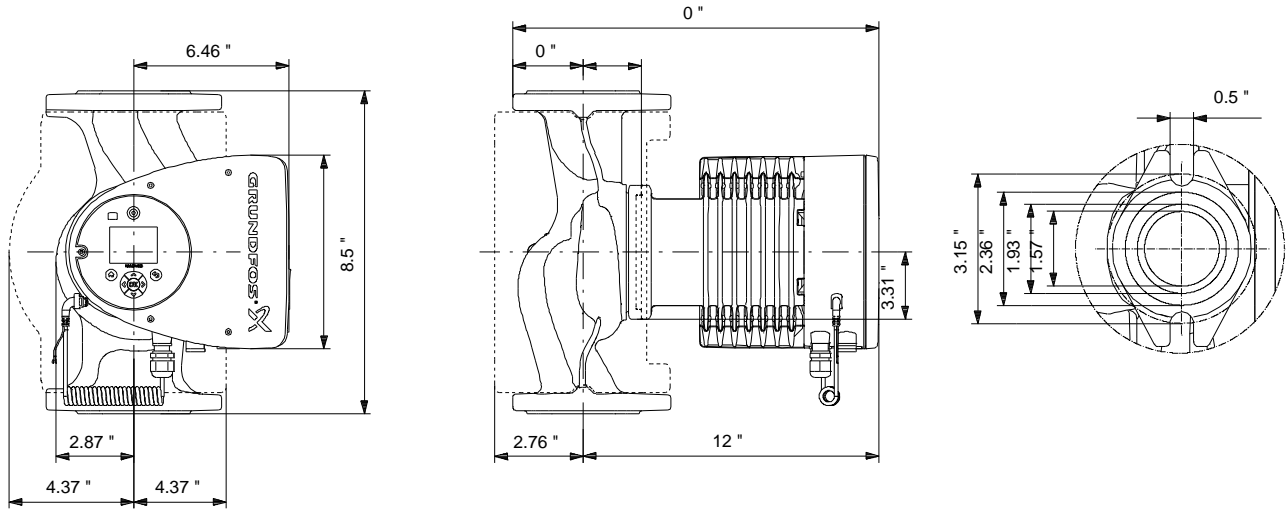


Full range of intelligent, high-efficiency circulators for heating, cooling, ground source heat pump systems and domestic hot water applications

Product photo could vary from the actual product


Conditions of Service	Pump Data	Motor Data
Flow: _____	Maximum operating pressure: 232 psi	P1 max: 16 .. 276 W
Head: _____	Liquid temperature range: 14 .. 230 °F	Rated voltage: 115 V
Efficiency: _____	Maximum ambient temperature: 104 °F	Main frequency: 60 Hz
Liquid: Water	Approvals: ETL, FCC W_RADIAL, UL DW 372	Enclosure class: X4D
Temperature: 68 °F	Flange standard: GF	Insulation class: F
NPSH required: _____	Pipe connection: GF15/26/40/43	
Viscosity: 1 cSt	Product number: 98126802	
Specific Gravity: 1.000		





Materials:

Pump housing: Stainless steel
 EN 1.4308
 ASTM 351 CF8
 Impeller: PES 30%GF

Position	Count	Description
	1	<p data-bbox="380 159 602 189">MAGNA3 40-80 F N</p>  <p data-bbox="764 594 1214 615">Product photo could vary from the actual product</p> <p data-bbox="380 625 639 646">Product No.: 98126802</p> <p data-bbox="380 684 708 705">MAGNA3 – More than a pump</p> <p data-bbox="380 716 1430 785">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 data-bbox="380 800 1484 848">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 data-bbox="380 884 1474 932">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 data-bbox="380 942 1333 963">The innovative clamp with only one screw enables easy repositioning of the pump head.</p> <p data-bbox="380 974 1458 995">The MAGNA3 is a pump with no maintenance requirements and with extremely low Life Cycle Cost.</p> <p data-bbox="380 1031 846 1052">The pump is characterised by the following:</p> <ul data-bbox="380 1062 954 1320" 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-fiber-reinforced composite rotor can • stainless-steel bearing plate and rotor cladding • aluminium alloy stator housing • air-cooled power electronics <p data-bbox="380 1331 797 1352">The MAGNA3 is a single-phase pump.</p> <p data-bbox="380 1388 623 1409">Characteristic features</p> <ul data-bbox="380 1419 1393 1793" 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 data-bbox="380 1829 548 1850">Communication</p> <p data-bbox="380 1860 980 1881">The MAGNA3 enables communication via the following:</p>

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		<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) <p>Motor and electronic controller</p> <p>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.</p> <p>The pump speed is controlled by an integrated frequency converter.</p> <p>A differential-pressure and temperature sensor is incorporated in the pump.</p> <p>Liquid:</p> <table style="width: 100%; border: none;"> <tr> <td>Pumped liquid:</td> <td>Water</td> </tr> <tr> <td>Liquid temperature range:</td> <td>14 .. 230 °F</td> </tr> <tr> <td>Liquid temp:</td> <td>68 °F</td> </tr> <tr> <td>Density:</td> <td>62.29 lb/ft³</td> </tr> <tr> <td>Kinematic viscosity:</td> <td>1 cSt</td> </tr> </table> <p>Technical:</p> <table style="width: 100%; border: none;"> <tr> <td>TF class:</td> <td>110</td> </tr> <tr> <td>Approvals on nameplate:</td> <td>ETL, FCC W_RADIAL, UL DW 372</td> </tr> </table> <p>Materials:</p> <table style="width: 100%; border: none;"> <tr> <td>Pump housing:</td> <td>Stainless steel EN 1.4308 ASTM 351 CF8</td> </tr> <tr> <td>Impeller:</td> <td>PES 30%GF</td> </tr> </table> <p>Installation:</p> <table style="width: 100%; border: none;"> <tr> <td>Range of ambient temperature:</td> <td>32 .. 104 °F</td> </tr> <tr> <td>Maximum operating pressure:</td> <td>232 psi</td> </tr> <tr> <td>Flange standard:</td> <td>GF</td> </tr> <tr> <td>Pipe connection:</td> <td>GF15/26/40/43</td> </tr> <tr> <td>Pressure stage:</td> <td>PN12</td> </tr> <tr> <td>Port-to-port length:</td> <td>8 9/16 in</td> </tr> </table> <p>Electrical data:</p> <table style="width: 100%; border: none;"> <tr> <td>Power input - P1:</td> <td>16 .. 276 W</td> </tr> <tr> <td>Maximum current consumption:</td> <td>0.3 .. 2.45 A</td> </tr> <tr> <td>Main frequency:</td> <td>60 Hz</td> </tr> <tr> <td>Rated voltage:</td> <td>1 x 115 V</td> </tr> <tr> <td>Enclosure class (IEC 34-5):</td> <td>X4D</td> </tr> <tr> <td>Insulation class (IEC 85):</td> <td>F</td> </tr> </table> <p>Others:</p> <table style="width: 100%; border: none;"> <tr> <td>Energy (EEI):</td> <td>0.19</td> </tr> <tr> <td>Net weight:</td> <td>36.2 lb</td> </tr> <tr> <td>Gross weight:</td> <td>40 lb</td> </tr> <tr> <td>Shipping volume:</td> <td>1.41 ft³</td> </tr> </table>	Pumped liquid:	Water	Liquid temperature range:	14 .. 230 °F	Liquid temp:	68 °F	Density:	62.29 lb/ft ³	Kinematic viscosity:	1 cSt	TF class:	110	Approvals on nameplate:	ETL, FCC W_RADIAL, UL DW 372	Pump housing:	Stainless steel EN 1.4308 ASTM 351 CF8	Impeller:	PES 30%GF	Range of ambient temperature:	32 .. 104 °F	Maximum operating pressure:	232 psi	Flange standard:	GF	Pipe connection:	GF15/26/40/43	Pressure stage:	PN12	Port-to-port length:	8 9/16 in	Power input - P1:	16 .. 276 W	Maximum current consumption:	0.3 .. 2.45 A	Main frequency:	60 Hz	Rated voltage:	1 x 115 V	Enclosure class (IEC 34-5):	X4D	Insulation class (IEC 85):	F	Energy (EEI):	0.19	Net weight:	36.2 lb	Gross weight:	40 lb	Shipping volume:	1.41 ft ³
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