

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

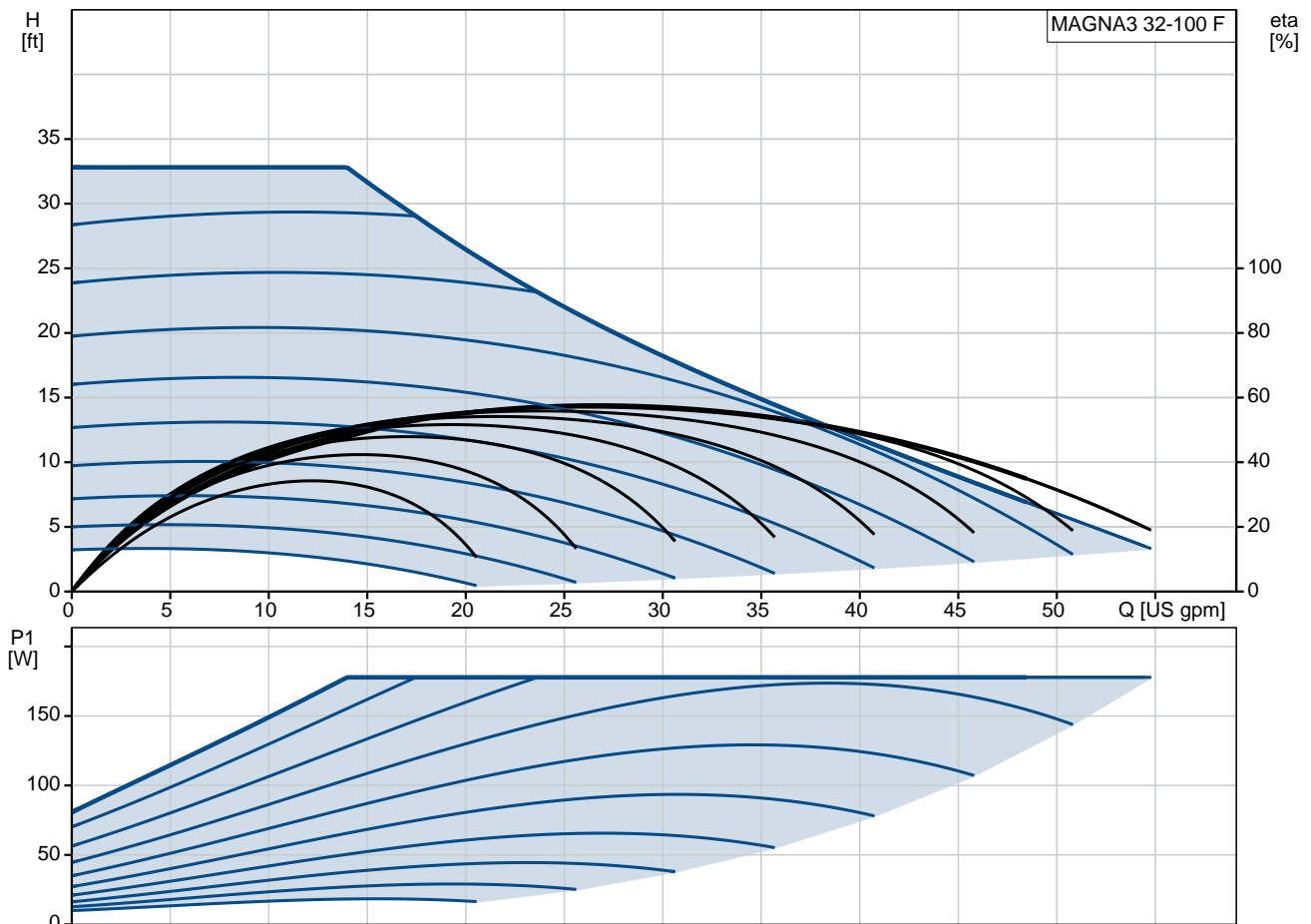


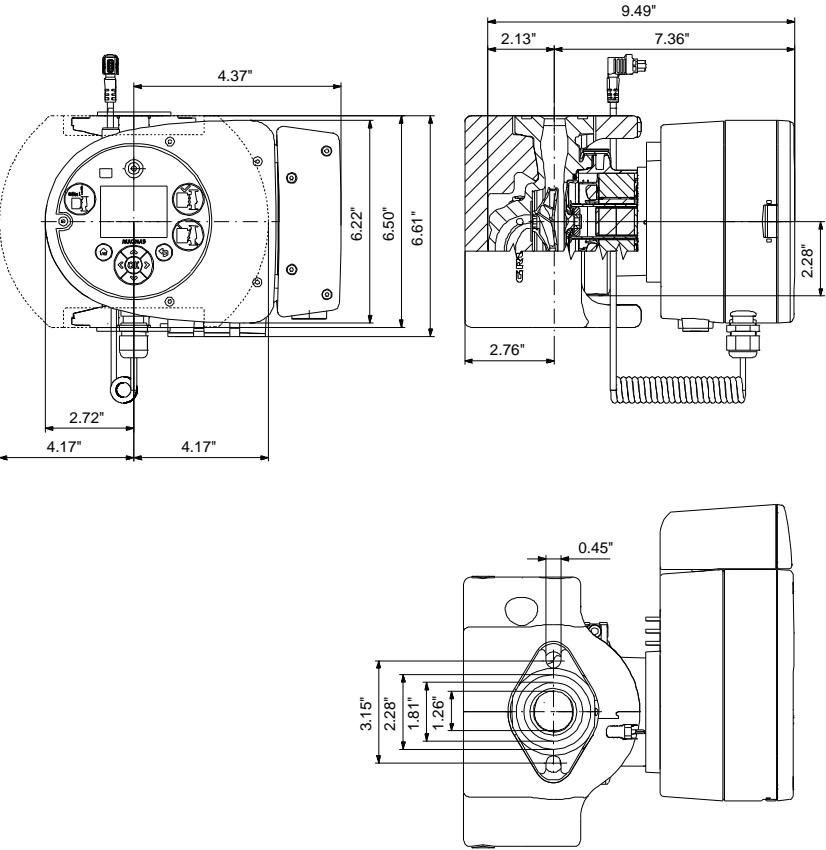
## MAGNA3 32-100 F

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: 174 psi    | P1 max: 9.7 .. 178 W     |
| Head: _____             | Liquid temperature range: 14 .. 230 °F | Rated voltage: 115-230 V |
| Efficiency: _____       | Maximum ambient temperature: 104 °F    | Main frequency: 60 Hz    |
| Liquid: Water           | Approvals: 98544605                    | Enclosure class: X4D     |
| Temperature: 140 °F     | Flange standard: GF                    | Insulation class: F      |
| NPSH required: ft       | Pipe connection: GF15/26/40/43         |                          |
| Viscosity: _____        | Product number: 98126824               |                          |
| Specific Gravity: 0.985 |  |                          |





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

| Position | Count | Description  |
|----------|-------|--|
|          | 1     | <p><b>MAGNA3 32-100 F</b></p>  <p>Product No.: <a href="#">98126824</a></p> <p><b>MAGNA3 – More than a pump</b><br/>           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"> <li>• controller integrated in the control box</li> <li>• control panel with TFT display on the control box</li> <li>• control box prepared for optional CIM modules</li> <li>• built-in differential-pressure and temperature sensor</li> <li>• cast-iron pump housing (depending on model)</li> <li>• carbon-fiber-reinforced composite rotor can</li> <li>• stainless-steel bearing plate and rotor cladding</li> <li>• aluminium alloy stator housing</li> <li>• air-cooled power electronics</li> </ul> <p>The MAGNA3 is a single-phase pump.</p> <p><b>Characteristic features</b></p> <ul style="list-style-type: none"> <li>• AUTOADAPT.</li> <li>• FLOWADAPT and FLOWLIMIT (more than a pump function as it reduces the need for pump throttling valves).</li> <li>• Proportional-pressure control.</li> <li>• Constant-pressure control.</li> <li>• Constant-temperature control.</li> <li>• Constant-curve duty.</li> <li>• Max. or min. curve duty.</li> <li>• Automatic Night Setback.</li> <li>• No external motor protection required.</li> <li>• Insulating shells supplied with single-head pumps for heating systems.</li> <li>• Large temperature range where the liquid temperature and the ambient temperature are independent of each other.</li> </ul> <p><b>Communication</b><br/>           The MAGNA3 enables communication via the following:</p> <ul style="list-style-type: none"> <li>• wireless Grundfos GO Remote</li> <li>• fieldbus communication via CIM modules</li> <li>• digital inputs</li> <li>• relay outputs</li> <li>• analog input (more than a pump function as heat energy meter)</li> </ul> |

| Position | Count | Description  |
|----------|-------|--|
|          |       | <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><b>Liquid:</b></p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: 14 .. 230 °F</p> <p>Liquid temperature during operation: 140 °F</p> <p>Density: 61.35 lb/ft<sup>3</sup></p> <p><b>Technical:</b></p> <p>TF class: 110</p> <p>Approvals on nameplate: 98544605</p> <p><b>Materials:</b></p> <p>Pump housing: Cast iron<br/>EN-GJL-250<br/>ASTM A48-250B</p> <p>Impeller: PES 30%GF</p> <p><b>Installation:</b></p> <p>Range of ambient temperature: 32 .. 104 °F</p> <p>Maximum operating pressure: 174 psi</p> <p>Flange standard: GF</p> <p>Pipe connection: GF15/26/40/43</p> <p>Pressure stage: PN12</p> <p>Port-to-port length: 6 1/2 in</p> <p><b>Electrical data:</b></p> <p>Power input - P1: 9.7 .. 178 W</p> <p>Main frequency: 60 Hz</p> <p>Rated voltage: 1 x 115-230 V</p> <p>Maximum current consumption: 0.29 .. 1.61 A</p> <p>Enclosure class (IEC 34-5): X4D</p> <p>Insulation class (IEC 85): F</p> <p><b>Others:</b></p> <p>Energy (EEI): 0.18</p> <p>Net weight: 13.2 lb</p> <p>Gross weight: 14.2 lb</p> <p>Shipping volume: 0.46 ft<sup>3</sup></p> <p>Custom tariff no.: 8413.70.2005</p> |