

PROJECT:	Design Assist with Hurley Engineering	UNIT TAG:	_____	QUANTITY:	1
REPRESENTATIVE:	Hurley Engineering	TYPE OF SERVICE:	Cast Iron Pump Configuration	DATE:	_____
ENGINEER:	TBD	SUBMITTED BY:	Devin Carle	DATE:	_____
CONTRACTOR:	TBD	APPROVED BY:	_____	DATE:	_____
		ORDER NO.:	_____	DATE:	_____

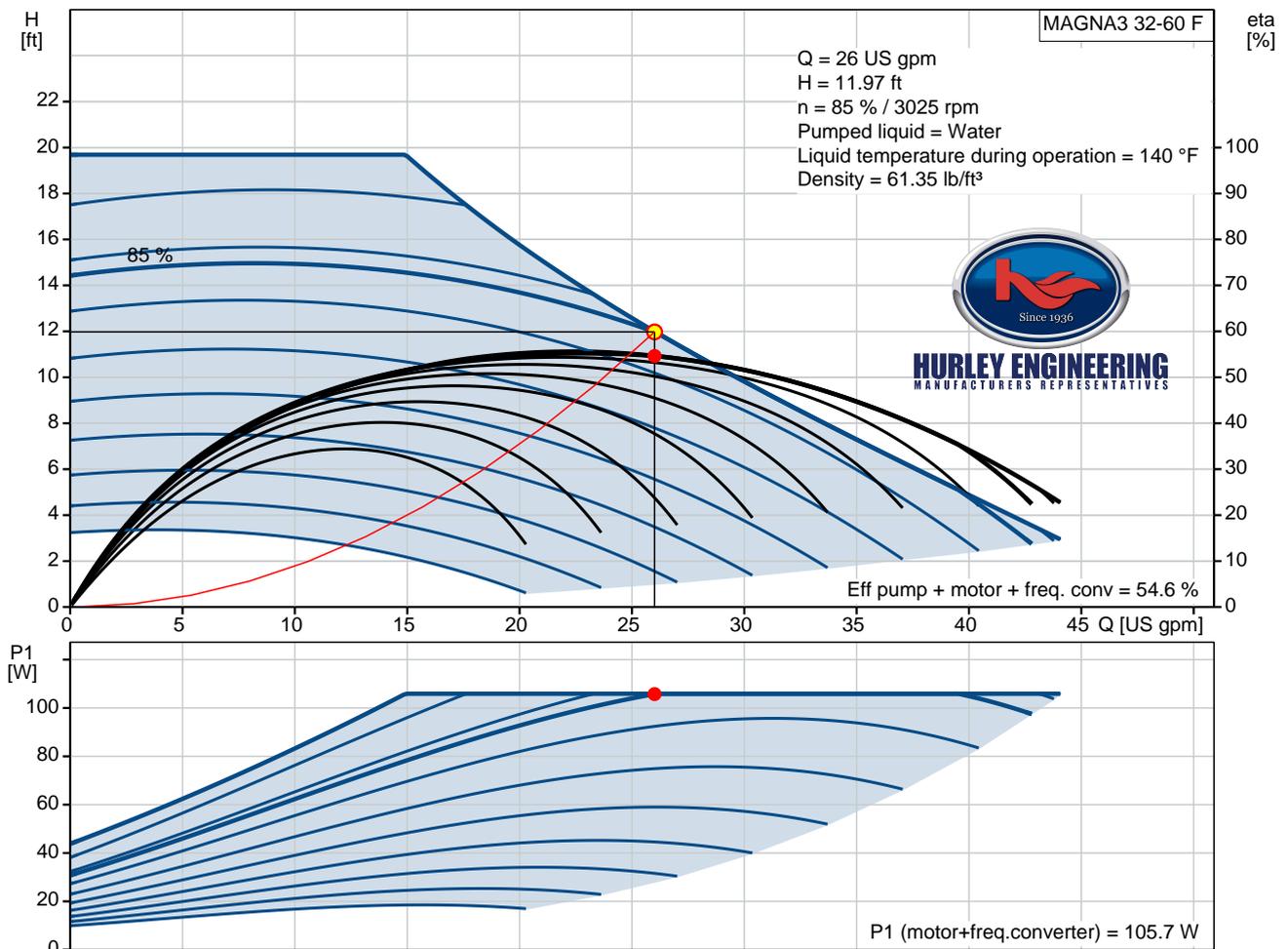


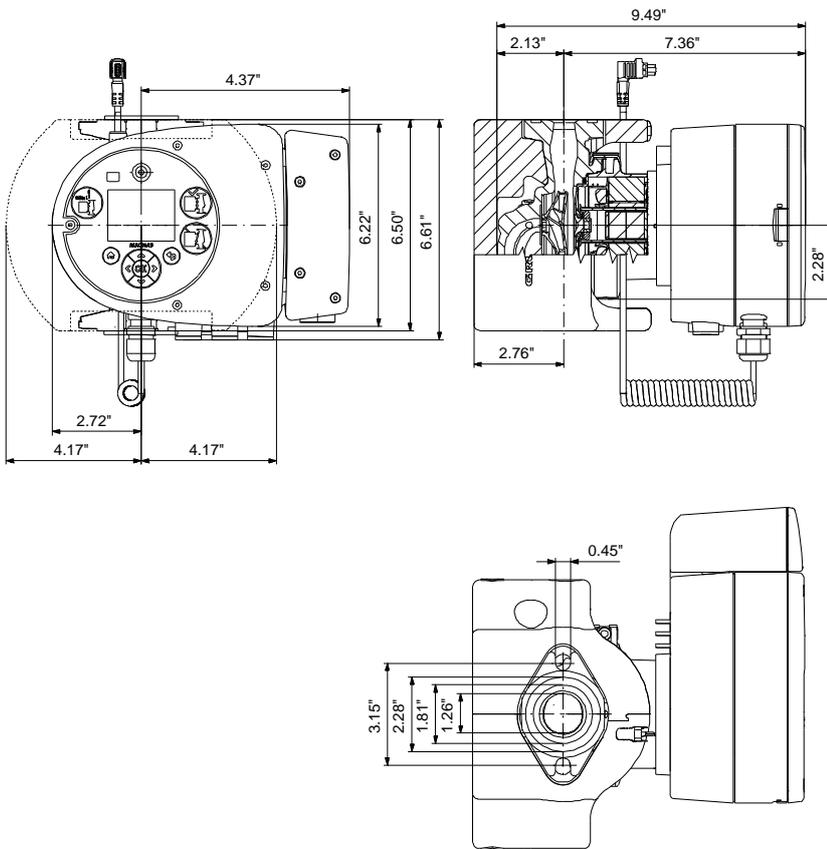
## MAGNA3 32-60 F

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:	26 US gpm	Maximum operating pressure:	174 psi	P1 max:	8.45 .. 106 W
Head:	11.97 ft	Liquid temperature range:	14 .. 230 °F	Rated voltage:	115-230 V
Efficiency:	54.6 %	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:	98126820		
Specific Gravity:	0.985				





**Materials:**

Pump housing: Cast iron  
 EN-GJL-250  
 ASTM A48-250B

Impeller: PES 30%GF

Count	Description
1	<p data-bbox="225 338 427 367"><b>MAGNA3 32-60 F</b></p> <div data-bbox="277 394 561 651">  </div> <p data-bbox="619 636 1070 663">Product photo could vary from the actual product</p> <p data-bbox="225 667 491 694">Product No.: <a href="#">98126820</a></p> <p data-bbox="225 725 560 752"><b>MAGNA3 – More than a pump</b></p> <p data-bbox="225 754 1452 835">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="225 842 1410 896">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="225 929 1437 983">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="225 987 1190 1016">The innovative clamp with only one screw enables easy repositioning of the pump head.</p> <p data-bbox="225 1019 1318 1048">The MAGNA3 is a pump with no maintenance requirements and with extremely low Life Cycle Cost.</p> <p data-bbox="225 1077 703 1106">The pump is characterised by the following:</p> <ul data-bbox="225 1108 812 1373" 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 data-bbox="225 1375 649 1404">The MAGNA3 is a single-phase pump.</p> <p data-bbox="225 1433 475 1462"><b>Characteristic features</b></p> <ul data-bbox="225 1464 1449 1812" 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 data-bbox="225 1845 400 1874"><b>Communication</b></p> <p data-bbox="225 1877 836 1906">The MAGNA3 enables communication via the following:</p> <ul data-bbox="225 1908 936 2056" 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>

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>Actual calculated flow: 26 US gpm</p> <p>Rated flow: 22.5 US gpm</p> <p>Resulting head of the pump: 11.97 ft</p> <p>TF class: 110</p> <p>Approvals on nameplate: 98544605</p> <p><b>Materials:</b></p> <p>Pump housing: Cast iron EN-GJL-250 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: 8.45 .. 106 W</p> <p>Main frequency: 60 Hz</p> <p>Rated voltage: 1 x 115-230 V</p> <p>Maximum current consumption: 0.29 .. 1.01 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): 0.19</p> <p>Net weight: 13.2 lb</p> <p>Gross weight: 14.2 lb</p> <p>Shipping volume: 0.42 ft<sup>3</sup></p> <p>Custom tariff no.: 8413.70.2005</p>



Company name:

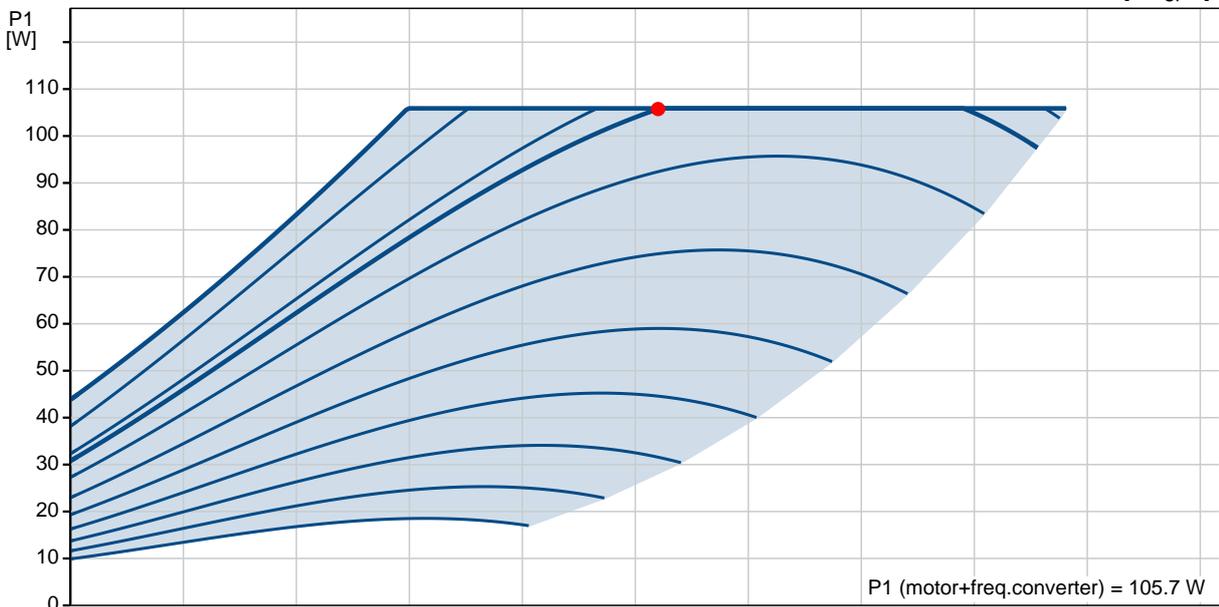
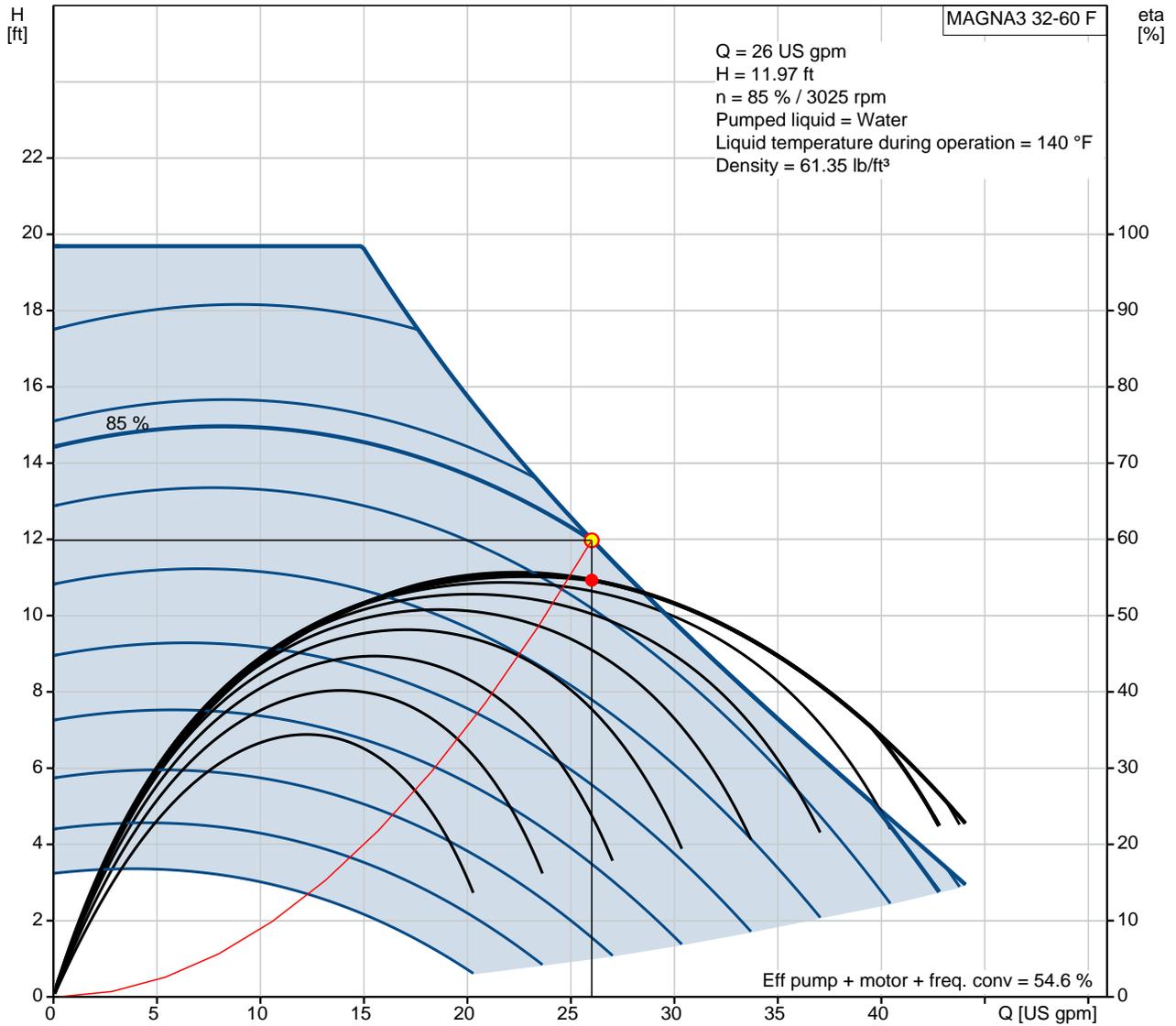
Created by:

Phone:

Date:

3/2/2019

# 98126820 MAGNA3 32-60 F 60 Hz



Description	Value
<b>General information:</b>	
Product name:	MAGNA3 32-60 F
Product No.:	98126820
EAN:	5710629499820
<b>Technical:</b>	
Actual calculated flow:	26 US gpm
Rated flow:	22.5 US gpm
Resulting head of the pump:	11.97 ft
Head max:	19.69 ft
TF class:	110
Approvals on nameplate:	98544605
Model:	D
<b>Materials:</b>	
Pump housing:	Cast iron
	EN-GJL-250
	ASTM A48-250B
Impeller:	PES 30%GF
<b>Installation:</b>	
Range of ambient temperature:	32 .. 104 °F
Maximum operating pressure:	174 psi
Flange standard:	GF
Pipe connection:	GF15/26/40/43
Pressure stage:	PN12
Port-to-port length:	6 1/2 in
<b>Liquid:</b>	
Pumped liquid:	Water
Liquid temperature range:	14 .. 230 °F
Liquid temperature during operation:	140 °F
Density:	61.35 lb/ft <sup>3</sup>
<b>Electrical data:</b>	
Power input - P1:	8.45 .. 106 W
Main frequency:	60 Hz
Rated voltage:	1 x 115-230 V
Maximum current consumption:	0.29 .. 1.01 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F
<b>Others:</b>	
Energy (EEI):	0.19
Net weight:	13.2 lb
Gross weight:	14.2 lb
Shipping volume:	0.42 ft <sup>3</sup>
Custom tariff no.:	8413.70.2005

