



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



MAGNA1 100-120 F

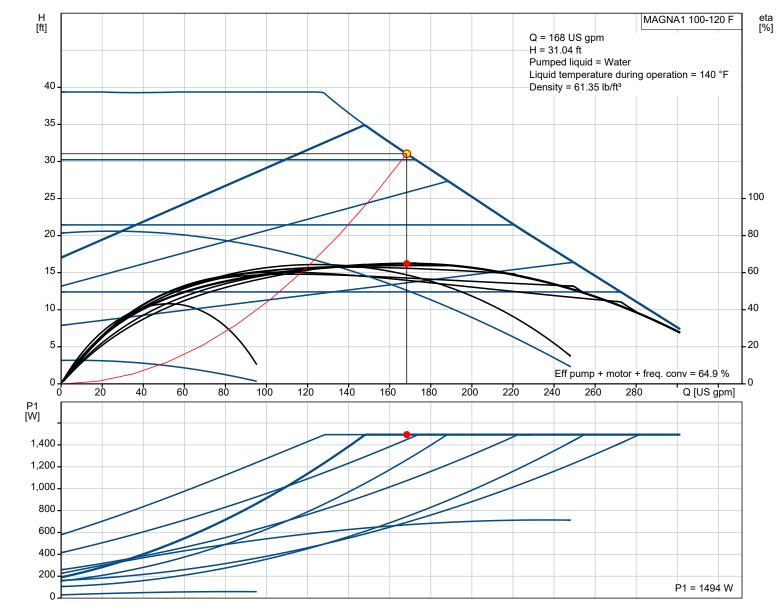
The simple option for a job well done. The product has an intuitive user interface, which is especially fit for replacement of older circulators. The ideal choice for basic functionality needs.

Product photo could vary from the actual product

Conditions of Service				
Flow:	168 US gpm			
Head:	31.04 ft			
Efficiency:	64.9 %			
Liquid:	Water			
Temperature:	140 °F			
NPSH required:	ft			
Specific Gravity:	0.985			

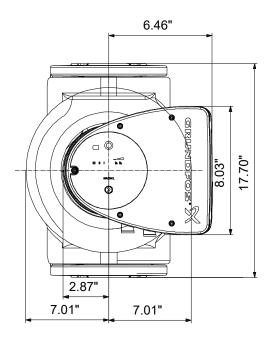
174.05 psi
14 230 °F
104 °F
98544607
GF
GF100
On request

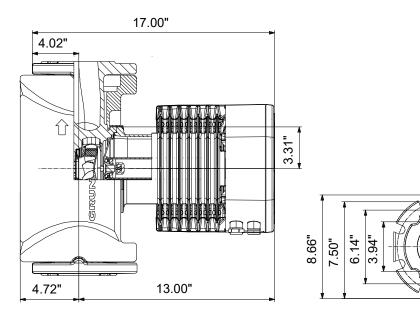
Motor Data				
P1 max:	31 1523 W			
Rated voltage:	208-230 V			
Main frequency:	60 Hz			
Enclosure class:	X4D			
Insulation class:	F			











Materials:

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



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Count 1 Description

MAGNA1 100-120 F



Product No.: On request

MAGNA1 circulator pump with easy selection of pump setting

The pump 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.

In order to avoid problems in connection with disposal, great importance has been attached to using as few different materials as possible.

A pump with no maintenance requirements and extremely low life cycle cost.

Heating systems

- Main pump
- mixing loops
- · heating surfaces
- air-conditioning surfaces.

The MAGNA1 circulator pumps are designed for

circulating liquids in heating systems with variable flows where it is desirable to optimize the setting of the pump duty point, thus reducing energy costs. The pumps are also suitable for domestic hot-water systems.

To ensure correct operation, it is important that the sizing range of the system falls within the duty range of the pump.

The pump is also suitable for systems with

hot-water priority as an external signal can

immediately force the pump to operate according to the max. curve, for example in solar-heating systems.

Benefits

- Safe selection.
- · Simple installation.
- Low energy consumption. All MAGNA1 pumps comply with the EuP requirements.
- Nine light fields for indication of pump setting. Three proportional-pressure curves, three constant-pressure curves and three fixed-speed curves are available.
- · Low noise level.
- · No maintenance and long life.

Liquid:

Pumped liquid: Water
Liquid temperature range: 14 .. 230 °F
Selected liquid temperature: 140 °F
Density: 61.35 lb/ft³

Technical:

Actual calculated flow: 168 US gpm
Resulting head of the pump: 31.04 ft
TF class: 110
Approvals on nameplate: 98544607

Materials:

Pump housing: Cast iron

EN-GJL-250 ASTM A48-250B PES 30%GF

Installation:

Impeller:

Range of ambient temperature: 32 .. 104 °F Maximum operating pressure: 174.05 psi Flange standard: GF

Pipe connection: GF100
Pressure stage: PN12



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Count | Description

17 3/4 in

Electrical data:

Port-to-port length:

Power input - P1: 31 .. 1523 W Main frequency: 60 Hz

Rated voltage: 1 x 208-230 V Maximum current consumption: 0.32 .. 6.73 A

Enclosure class (IEC 34-5): X4D Insulation class (IEC 85): F

Others:

Energy (EEI): 0.21

Net weight: 75.4 lb

Gross weight: 81.8 lb

Shipping volume: 3.21 ft³

Country of origin: US

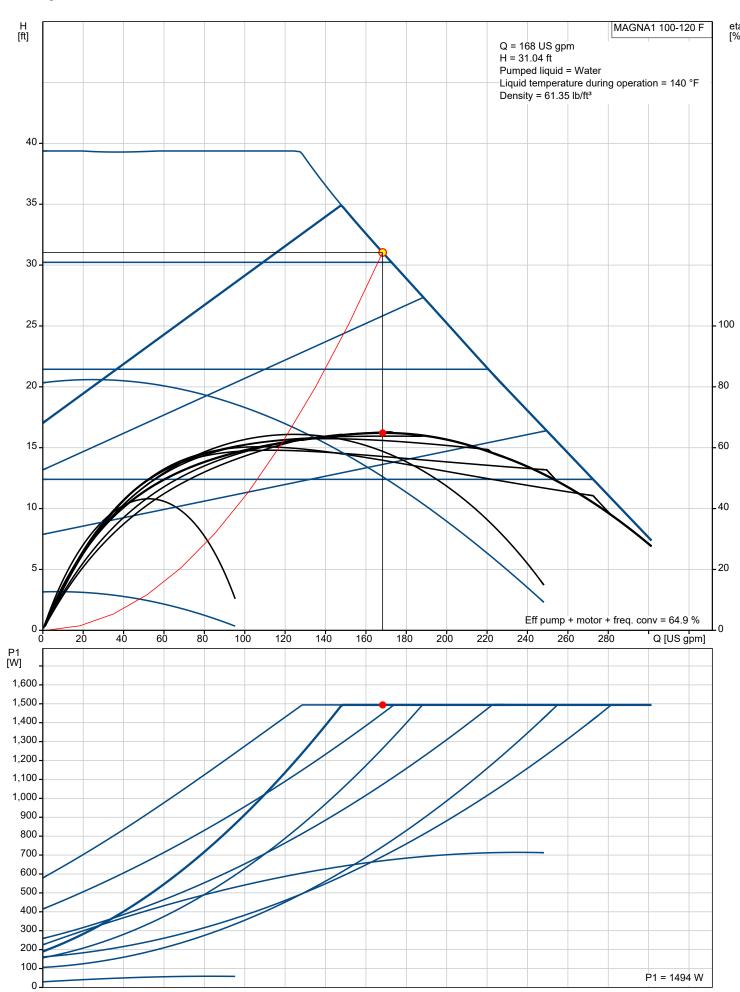
Custom tariff no.: 8413.70.2015



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On request MAGNA1 100-120 F 60 Hz

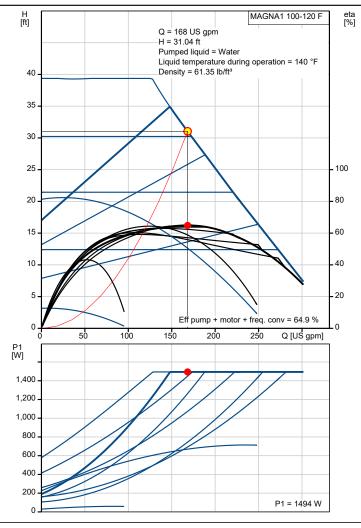


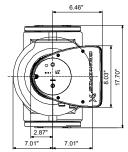


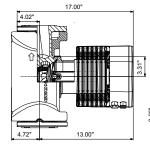
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Description	Value
General information:	
Product name:	MAGNA1 100-120 F
Product No.:	On request
EAN:	On request
Technical:	
Actual calculated flow:	168 US gpm
Resulting head of the pump:	31.04 ft
Head max:	39.37 ft
TF class:	110
Approvals on nameplate:	98544607
Model:	В
Materials:	
Pump housing:	Cast iron
Pump housing:	EN-GJL-250
Pump housing:	ASTM A48-250B
Impeller:	PES 30%GF
Installation:	
Range of ambient temperature:	32 104 °F
Maximum operating pressure:	174.05 psi
Flange standard:	GF
Pipe connection:	GF100
Pressure stage:	PN12
Port-to-port length:	17 3/4 in
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	14 230 °F
Selected liquid temperature:	140 °F
Density:	61.35 lb/ft ³
Electrical data:	
Power input - P1:	31 1523 W
Main frequency:	60 Hz
Rated voltage:	1 x 208-230 V
Maximum current consumption:	0.32 6.73 A
Enclosure class (IEC 34-5):	X4D
Insulation class (IEC 85):	F
Others:	
Energy (EEI):	0.21
Net weight:	75.4 lb
Gross weight:	81.8 lb
Shipping volume:	3.21 ft³
Country of origin:	US
Custom tariff no.:	8413.70.2015

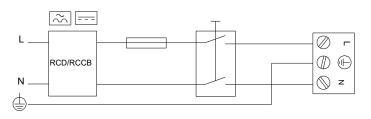








Example of mains-connected motor with mains switch, backup fuse and additional protection

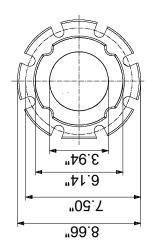


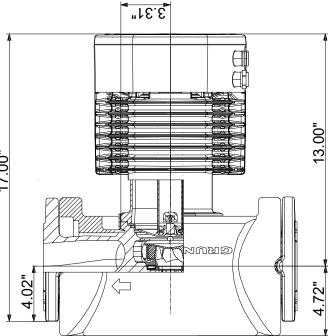


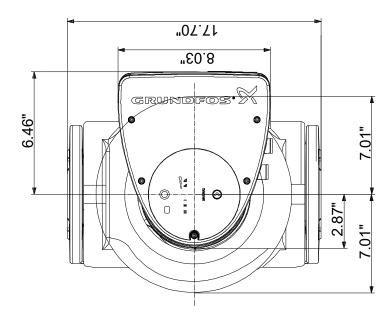
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On request MAGNA1 100-120 F 60 Hz





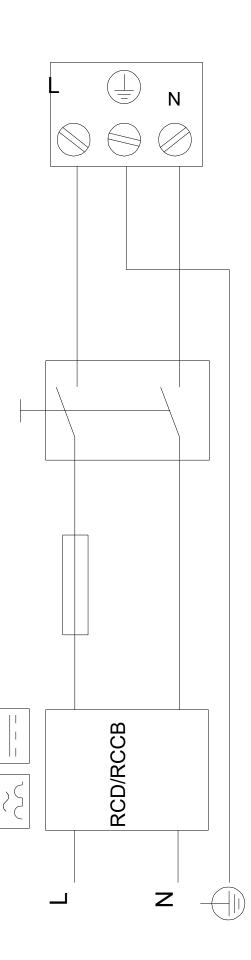




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On request MAGNA1 100-120 F 60 Hz



Example of mains-connected motor with mains switch, backup fuse and additional protection



Created by: Phone:

Date: 4/22/2021

Order Data:

Product name: MAGNA1 100-120 F

Amount:

Product No.: On request

Total: Price on request