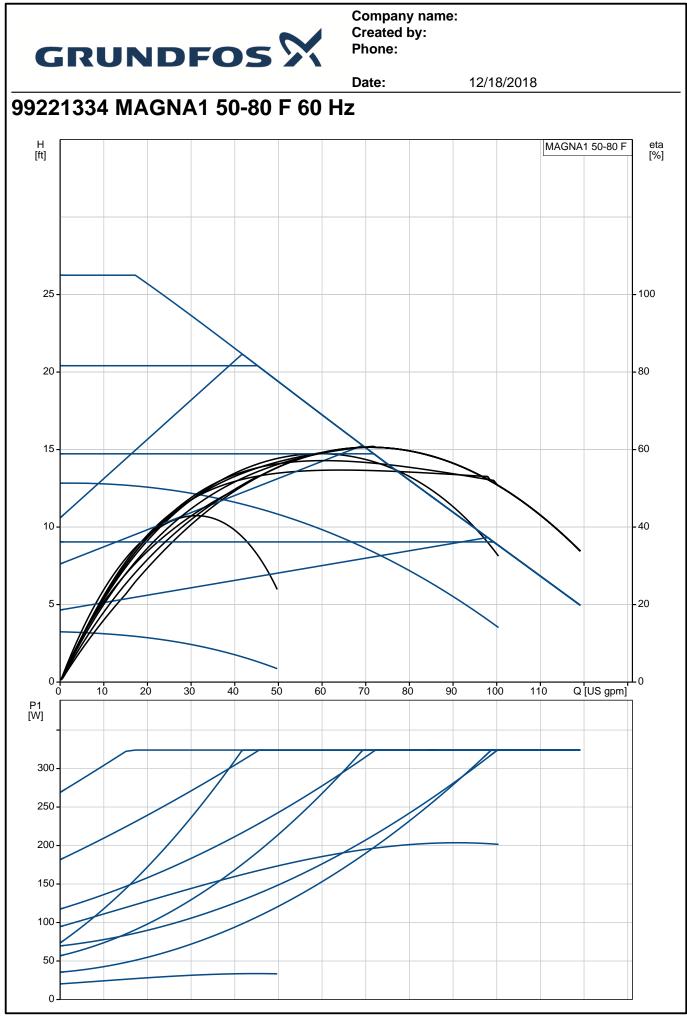
Date:         12/18/2018           Count         Description           1         MAGNA1 50-80 F           Image: Separate Se	C	RUNDFO	58	Company nan Created by: Phone:	ne:			
1       MAGNA1 50-80 F         Froduct No:: 99221334         The new MAGNA1 is the simple option for a job well done. It is the parfect choice when replacing older direutators and due to its compliance with the EUP 2015 regulations, substantial savings on electricity is a realit The ideal choice for basic performance needs in applications where basic system control and monitoring is desired.         •       Monitoring via the fault relay, ensuring peace of mind         •       Digital startistop input available for remote pump control.         •       Continuous operation and reduced downtime with the wireless twin pump function (available on twin-head pumps).         •       High energy efficiency resulting in substantial savings on electricity         •       Easy satup and operation via the simple user interface         •       No maintenance due to the canned-rotor type design.         MAGNA1 is the simple and efficient choice for most applications including         •       Heating         •       Maing loops         •       Heating surfaces         •       Cooling         •       Air conditioning surfaces         •       Ground source heat pump systems         •       Smaller chiller applications         •       Heating         •       Marking loops         •       Heating         •				Date:	12/18/2018			
<ul> <li>Product Nr: 9221234</li> <li>Product Nr: 9221234</li> <li>The new MAGNA1 is the simple option for a job well done. It is the perfect choice when replacing older circulators and use to its compliance with the EuP 2015 regulations, substantial savings on electricity is a realit Jobie for basic performance needs in applications where basic system control and monitoring is Jobie and Performance needs in applications where basic system control and monitoring to Source and So</li></ul>	Count	Description						
The new MAGNA1 is the simple option for a job well done. It is the perfect choice when replacing older circulators and due to its compliance with the EUP 2015 regulations, substantial savings on electricity is a realit choice for basic performance needs in applications where basic system control and monitoring is desired.         • Monitoring via the fault relay, ensuring peace of mind       • Digital start/stop input available for remote pump control         • Continuous operation and reduced downtime with the wireless twin pump function (available on twin-head pumps)       • High energy efficiency resulting in substantial savings on electricity         • Easy setup and operation via the simple user interface       • No maintenance due to the canned-rotor type design.         MAGNA1 is the simple and efficient choice for most applications including       • Heating         • Alir conditioning surfaces       • Ground source heat pump systems         • Smaller chiller applications       • Smaller chiller applications         Liquid temperature during operation:       140 °F         Density:       61.35 b/ft <sup>4</sup> Technical:       T         TF class:       110         Approvals on nameplate:       CE_VDE_EAC,CN ROHS,WEEE         Materials:       Pump housing:       Cast iron         EN-GUL-250       ASTM A48-2508         Impeller:       PES 30%GF         Installation:       22104 °F         Maximum operating pressure:	1	MAGNA1 50-80 F						
The new MAGNA1 is the simple option for a job well done. It is the perfect choice when replacing older circulators and due to its compliance with the EUP 2015 regulations, substantial savings on electricity is a realit choice for basic performance needs in applications where basic system control and monitoring is desired.         • Monitoring via the fault relay, ensuring peace of mind       • Digital start/stop input available for remote pump control         • Continuous operation and reduced downtime with the wireless twin pump function (available on twin-head pumps)       • High energy efficiency resulting in substantial savings on electricity         • Easy setup and operation via the simple user interface       • No maintenance due to the canned-rotor type design.         MAGNA1 is the simple and efficient choice for most applications including       • Heating         • Alir conditioning surfaces       • Ground source heat pump systems         • Smaller chiller applications       • Smaller chiller applications         Liquid temperature during operation:       140 °F         Density:       61.35 b/ft <sup>4</sup> Technical:       T         TF class:       110         Approvals on nameplate:       CE_VDE_EAC,CN ROHS,WEEE         Materials:       Pump housing:       Cast iron         EN-GUL-250       ASTM A48-2508         Impeller:       PES 30%GF         Installation:       22104 °F         Maximum operating pressure:		XBG						
<ul> <li>Digital start/stop input available for remote pump control</li> <li>Continuous operation and reduced downtime with the wireless twin pump function (available on twin-head pumps)</li> <li>High energy efficiency resulting in substantial savings on electricity</li> <li>Easy setup and operation via the simple user interface</li> <li>No maintenance due to the canned-rotor type design.</li> </ul> MAGNA1 is the simple and efficient choice for most applications including <ul> <li>Heating</li> <li>Main pump</li> <li>Mising loops</li> <li>Heating surfaces</li> <li>Cooling</li> <li>Air conditioning surfaces</li> <li>Ground source heat pump systems</li> <li>Smaller chiller applications</li> </ul> Liquid temperature range: 14200 °F <ul> <li>Liquid temperature during operation: 140 °F</li> </ul> Density: 61.35 lb/ft <sup>3</sup> Technical: Trechnical: <ul> <li>Trechnical:</li> <li>TF class:</li> <li>110</li> <li>Approvals on nameplate:</li> <li>C, VDE, EAC, CN ROHS, WEEE</li> </ul> Materials: <ul> <li>Pump housing:</li> <li>Cast iron</li> <li>EN-GLI-250</li> <li>Materials:</li> </ul> Pump housing: <ul> <li>Cast iron</li> <li>EN-GLI-250</li> <li>Impeller:</li> </ul> PES 30%GF Installation: Range of ambient temperature: 32 104 °F Maximum operating pressure: 145 psi Flange standard: <ul> <li>DIN</li> </ul>		The new MAGNA1 is the simple option for a job well done. It is the perfect choice when replacing older circulators and due to its compliance with the EuP 2015 regulations, substantial savings on electricity is a reality. The ideal choice for basic performance needs in applications where basic system control and monitoring is						
<ul> <li>Easy setup and operation via the simple user interface</li> <li>No maintenance due to the canned-rotor type design.</li> <li>MAGNA1 is the simple and efficient choice for most applications including         <ul> <li>Heating</li> <li>Main pump</li> <li>Mixing loops</li> <li>Heating surfaces</li> <li>Cooling</li> <li>Air conditioning surfaces</li> <li>Ground source heat pump systems</li> <li>Smaller chiller applications</li> </ul> </li> <li>Liquid temperature range: 14 230 °F         <ul> <li>Liquid temperature during operation: 140 °F</li> <li>Density: 61.35 lb/ft<sup>3</sup></li> </ul> </li> <li>Technical:         <ul> <li>TF class:</li> <li>110</li> <li>Approvals on nameplate: CE,VDE,EAC,CN ROHS,WEEE</li> <li>Materials:                 <ul> <li>EN-GAL-2500</li></ul></li></ul></li></ul>		<ul> <li>Digital start/stop input available for remote pump control</li> <li>Continuous operation and reduced downtime with the wireless twin pump function (available on</li> </ul>						
<ul> <li>Heating         <ul> <li>Main pump</li> <li>Mixing loops</li> <li>Heating surfaces</li> </ul> </li> <li>Cooling         <ul> <li>Air conditioning surfaces</li> <li>Ground source heat pump systems</li> <li>Smaller chiller applications</li> </ul> </li> <li>Liquid:         <ul> <li>Pumped liquid: Water</li> <li>Liquid temperature range: 14230 °F</li> <li>Liquid temperature range: 14230 °F</li> <li>Lensity: 61.35 lb/ft<sup>3</sup></li> </ul> </li> <li>Technical:         <ul> <li>TF class: 110</li> <li>Approvals on nameplate: CE, VDE, EAC, CN ROHS, WEEE</li> </ul> </li> <li>Materials:         <ul> <li>Pump housing: Cast iron EN-GJL-250 ASTM A48-250B</li> <li>Impeller: PES 30%GF</li> <li>Installation:</li></ul></li></ul>		<ul> <li>Easy setup and operation</li> </ul>	n via the simple use	r interface	icity			
<ul> <li>Heating surfaces</li> <li>Cooling         <ul> <li>Air conditioning surfaces</li> <li>Ground source heat pump systems</li> <li>Smaller chiller applications</li> </ul> </li> <li>Liquid:         <ul> <li>Pumped liquid:</li> <li>Water</li> <li>Liquid temperature range:</li> <li>14230 °F</li> <li>Liquid temperature during operation:</li> <li>14230 °F</li> <li>Liquid temperature:</li> <li>CE, VDE, EAC, CN ROHS, WEEE</li> </ul> </li> <li>Materials:         <ul> <li>Pump housing:</li> <li>Cast iron</li> <li>EN-GLI-250</li> <li>ASTM A48-250B</li> <li>Impeller:</li> <li>PES 30% GF</li> </ul> </li> <li>Installation:         <ul> <li>Range of ambient temperature:</li> <li>32104 °F</li> <li>Maximum operating pressure:</li> <li>145 psi</li> <li>Flange standard:</li> <li>DIN</li> </ul> </li> </ul>		<ul> <li>Heating</li> <li>Main pump</li> </ul>	ient choice for mos	t applications inclu	ding			
Liquid:       Water         Pumped liquid:       Water         Liquid temperature range:       14230 °F         Liquid temperature during operation:       140 °F         Density:       61.35 lb/ft³         Technical:       T         TF class:       110         Approvals on nameplate:       CE,VDE,EAC,CN ROHS,WEEE         Materials:       Pump housing:         Pump housing:       Cast iron         EN-GJL-250       ASTM A48-250B         Impeller:       PES 30%GF         Installation:       32104 °F         Maximum operating pressure:       145 psi         Flange standard:       DIN		<ul> <li>Heating surfaces</li> <li>Cooling         <ul> <li>Air conditioning surface</li> </ul> </li> </ul>						
Pumped liquid:       Water         Liquid temperature range:       14230 °F         Liquid temperature during operation:       140 °F         Density:       61.35 lb/ft <sup>3</sup> Technical:         TF class:       110         Approvals on nameplate:       CE,VDE,EAC,CN ROHS,WEEE         Materials:       Pump housing:         Pump housing:       Cast iron         EN-GJL-250       ASTM A48-250B         Impeller:       PES 30%GF         Installation:       Range of ambient temperature:         Range of ambient temperature:       32104 °F         Maximum operating pressure:       145 psi         Flange standard:       DIN								
TF class:       110         Approvals on nameplate:       CE,VDE,EAC,CN ROHS,WEEE         Materials:       Pump housing:         Pump housing:       Cast iron         EN-GJL-250         ASTM A48-250B         Impeller:       PES 30%GF         Installation:         Range of ambient temperature:       32 104 °F         Maximum operating pressure:       145 psi         Flange standard:       DIN		Pumped liquid: Liquid temperature range: Liquid temperature during opera	14 230 °F tion: 140 °F					
Materials:       Cast iron         Pump housing:       Cast iron         EN-GJL-250       ASTM A48-250B         Impeller:       PES 30%GF         Installation:       Range of ambient temperature: 32 104 °F         Maximum operating pressure:       145 psi         Flange standard:       DIN		TF class:	-					
EN-GJL-250 ASTM A48-250B Impeller: PES 30%GF Installation: Range of ambient temperature: 32 104 °F Maximum operating pressure: 145 psi Flange standard: DIN		Materials:		KONS,WEEL				
Installation:Range of ambient temperature:32 104 °FMaximum operating pressure:145 psiFlange standard:DIN		Pump housing:	EN-GJL-250					
Range of ambient temperature:32 104 °FMaximum operating pressure:145 psiFlange standard:DIN			PES 30%GF					
Pipe connection:     DN 50       Pressure stage:     PN6/10       Port-to-port length:     9 1/2 in		Range of ambient temperature: Maximum operating pressure: Flange standard: Pipe connection: Pressure stage:	145 psi DIN DN 50 PN6/10					



Company name: Created by: Phone:

G	RUNDFO	52	Phone:		
			Date:	12/18/2018	
It	Description				
	Electrical data: Power input - P1: Main frequency: Rated voltage: Maximum current consumption: Enclosure class (IEC 34-5): Insulation class (IEC 85):	20.91 331 W 60 Hz 1 x 230 V 0.22 1.48 A X4D F			
	Others:				
	Energy (EEI): Net weight: Gross weight: Shipping volume: Finnish LVI No.: Country of origin:	0.20 39.4 lb 43.5 lb 1.62 ft <sup>3</sup> 4615194 DE			





## Company name: Created by: Phone:

		Date:	12/18/2	010		
Description	Value	H [ft]		MA	GNA1 50-80 F	-
General information:						
Product name:	MAGNA1 50-80 F					_
Product No.:	99221334					
EAN:	5712608943072					
Technical:	0.120000.0072	25 -				- 10
Head max:	26.25 ft					
TF class:	110					
Approvals on nameplate:	CE,VDE,EAC,CN ROHS,WEEE	20 -				- 80
Model:	С					
Materials:		15 -				- 60
Pump housing:	Cast iron					
	EN-GJL-250					
	ASTM A48-250B	10 -				- 40
Impeller:	PES 30%GF					
Installation:			T T			
Range of ambient temperature:	32 104 °F	5-				- 20
Maximum operating pressure:	145 psi					
Flange standard:	DIN					
Pipe connection:	DN 50		20 40 60	80 10	0 Q [US gpm]	]
Pressure stage:	PN6/10	P1 [W]				
Port-to-port length:	9 1/2 in					
Liquid:		300 -				_
Pumped liquid:	Water	250 -				_
Liquid temperature range:	14 230 °F	/				
Liquid temperature during operation:	140 °F	200 -	1/1	4		
Density:	61.35 lb/ft <sup>3</sup>	150 -				-
Electrical data:		100 -				_
Power input - P1:	20.91 331 W					
Main frequency:	60 Hz	50 -				
Rated voltage:	1 x 230 V	0				
Maximum current consumption:	0.22 1.48 A					
Enclosure class (IEC 34-5):	X4D					
Insulation class (IEC 85):	F					
Others:						
Energy (EEI):	0.20					
Net weight:	39.4 lb					
Gross weight:	43.5 lb					
Shipping volume:	1.62 ft <sup>3</sup>					
Finnish LVI No.:	4615194					
Country of origin:	DE					
Custom tariff no.:	84137030					



Company name: Created by: Phone:

12/18/2018

## 99221334 MAGNA1 50-80 F 60 Hz

