

Inventflow: Grundfos A-partner

Grundfos CRN 155-4-1 A-F-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/crn/grundfos-crn-155-4-1-a-f-a-e-hqqe>

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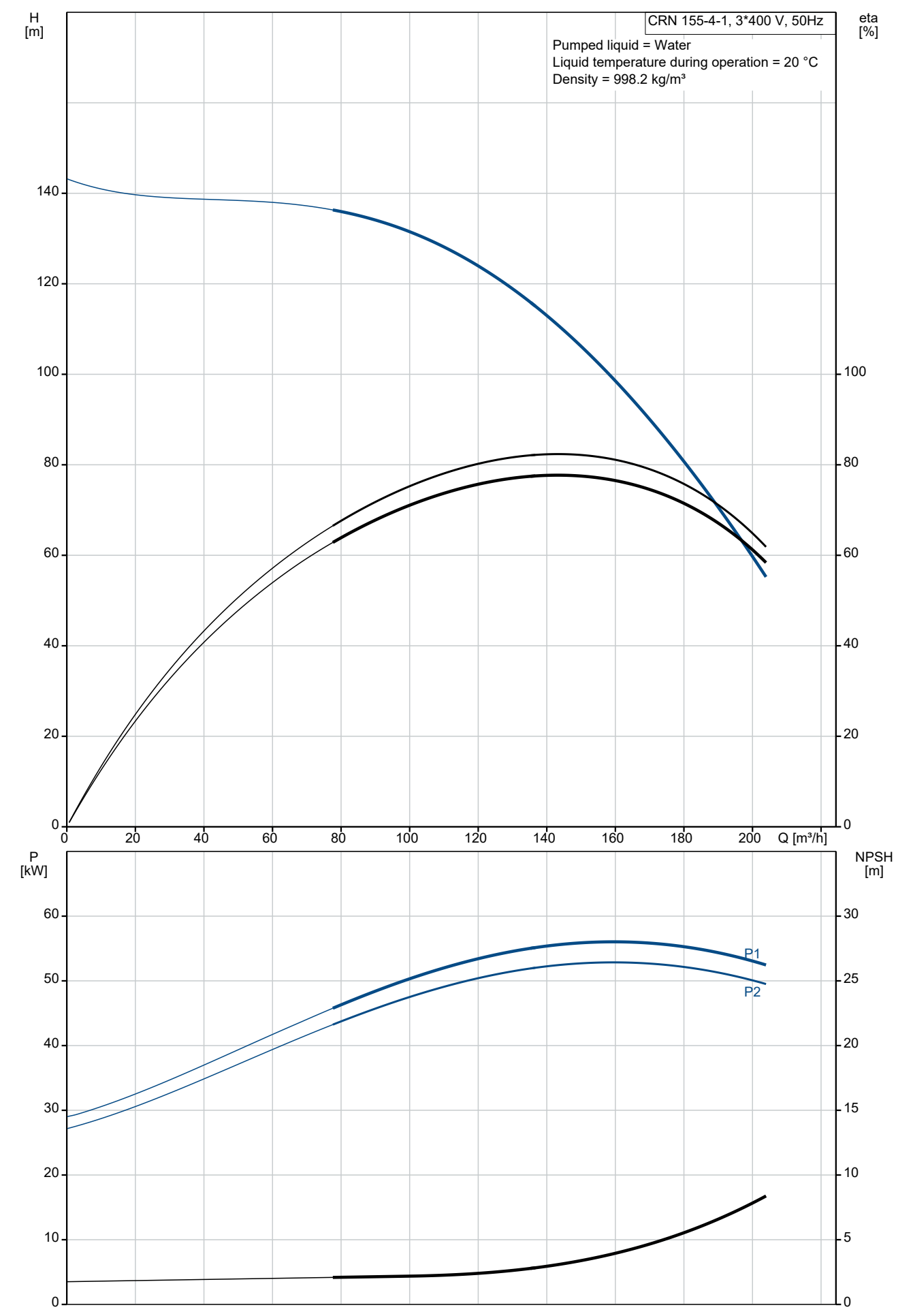
Datasheet



Qty.	Description																																																								
1	CRN 155-4-1 A-F-A-E-HQQE  Note! Product picture may differ from actual product Product No.: 99143275 Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in high-grade stainless steel. The Grundfos cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via DIN flanges. The pump is fitted with a 3-phase, fan-cooled asynchronous motor. Liquid: <table> <tr> <td>Pumped liquid:</td><td>Water</td></tr> <tr> <td>Liquid temperature range:</td><td>-40 .. 120 °C</td></tr> <tr> <td>Selected liquid temperature:</td><td>20 °C</td></tr> <tr> <td>Density:</td><td>998.2 kg/m³</td></tr> </table> Technical: <table> <tr> <td>Pump speed on which pump data are based:</td><td>2976 rpm</td></tr> <tr> <td>Rated flow:</td><td>155 m³/h</td></tr> <tr> <td>Rated head:</td><td>102.4 m</td></tr> <tr> <td>Pump orientation:</td><td>Vertical</td></tr> <tr> <td>Shaft seal arrangement:</td><td>Single</td></tr> <tr> <td>Code for shaft seal:</td><td>HQQE</td></tr> <tr> <td>Approvals:</td><td>CE,EAC,UKCA,ACS,WRAS</td></tr> <tr> <td>Curve tolerance:</td><td>ISO9906:2012 3B</td></tr> </table> Materials: <table> <tr> <td>Base:</td><td>Stainless steel EN 1.4408</td></tr> <tr> <td>Impeller:</td><td>Stainless steel EN 1.4401</td></tr> <tr> <td>Bearing:</td><td>WC/WC</td></tr> <tr> <td>Support bearing:</td><td>Graflon</td></tr> <tr> <td>Material certified according to:</td><td>European standards</td></tr> </table> Installation: <table> <tr> <td>Maximum ambient temperature:</td><td>55 °C</td></tr> <tr> <td>Maximum operating pressure:</td><td>16 bar</td></tr> <tr> <td>Max pressure at stated temp:</td><td>16 bar / 120 °C</td></tr> <tr> <td>Type of connection:</td><td>DIN</td></tr> <tr> <td>Size of inlet connection:</td><td>DN 150</td></tr> <tr> <td>Size of outlet connection:</td><td>DN 150</td></tr> <tr> <td>Pressure rating for connection:</td><td>PN 16</td></tr> <tr> <td>Flange size for motor:</td><td>FF500</td></tr> </table> Electrical data: <table> <tr> <td>Motor standard:</td><td>IEC</td></tr> <tr> <td>Motor type:</td><td>SIEMENS</td></tr> <tr> <td>IE Efficiency class:</td><td>IE3</td></tr> </table>	Pumped liquid:	Water	Liquid temperature range:	-40 .. 120 °C	Selected liquid temperature:	20 °C	Density:	998.2 kg/m ³	Pump speed on which pump data are based:	2976 rpm	Rated flow:	155 m ³ /h	Rated head:	102.4 m	Pump orientation:	Vertical	Shaft seal arrangement:	Single	Code for shaft seal:	HQQE	Approvals:	CE,EAC,UKCA,ACS,WRAS	Curve tolerance:	ISO9906:2012 3B	Base:	Stainless steel EN 1.4408	Impeller:	Stainless steel EN 1.4401	Bearing:	WC/WC	Support bearing:	Graflon	Material certified according to:	European standards	Maximum ambient temperature:	55 °C	Maximum operating pressure:	16 bar	Max pressure at stated temp:	16 bar / 120 °C	Type of connection:	DIN	Size of inlet connection:	DN 150	Size of outlet connection:	DN 150	Pressure rating for connection:	PN 16	Flange size for motor:	FF500	Motor standard:	IEC	Motor type:	SIEMENS	IE Efficiency class:	IE3
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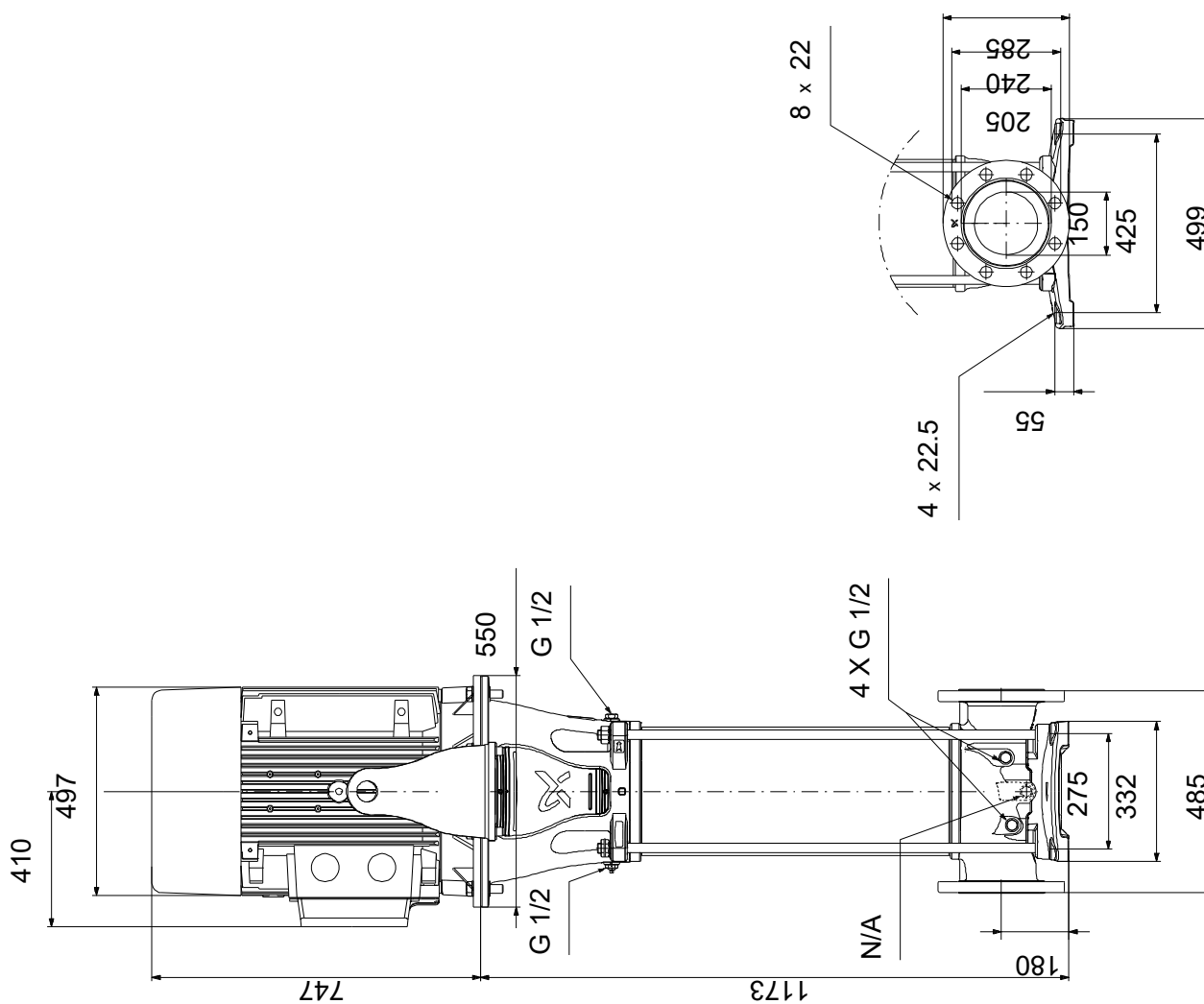
Qty.	Description
	Rated power - P2: 55 kW Power (P2) required by pump: 55 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 99,0-90,0/57,0-52,0 A Starting current: 670-670 % Cos phi - power factor: 0.89 Rated speed: 2975 rpm Efficiency: IE3 94,3% Motor efficiency at full load: 94.3-94.3 % Motor efficiency at 3/4 load: 94.5-94.5 % Motor efficiency at 1/2 load: 93.9-93.9 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 81U15338 Controls: Frequency converter: NONE Others: Net weight: 637 kg Gross weight: 780 kg Shipping volume: 2.04 m³ Finnish LVI No.: 4925644 Thrust handling device: N Country of origin: DK Custom tariff no.: 84137075

99143275 CRN 155-4-1 A-F-A-E-HQQE 50 Hz



Description	Value
Motor efficiency at 1/2 load:	93.9-93.9 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	81U15338
Controls:	
Frequency converter:	NONE
Others:	
Net weight:	637 kg
Gross weight:	780 kg
Shipping volume:	2.04 m ³
Finnish LVI No.:	4925644
Thrust handling device:	N
Country of origin:	DK
Custom tariff no.:	84137075

99143275 CRN 155-4-1 A-F-A-E-HQQE 50 Hz



Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

Spare parts CRN 155-4-1, Product No. 99143275
Produced After 1840 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, bearing			99415823	1	pcs
47g	Lock ring				1	
47a	Bearing				1	
48	Nut				1	
-	Kit, coupling			99190040	1	pcs
-	Coupling cpl.				1	
	Cable clip.				2	
10a	Coupling				1	
9	Hex socket head cap screw	Designation: DIN 912			4	
		Length (mm): 45				
		Thread: M16				
10	Parallel pin				1	
-	Kit, coupling guard			99196381	2	pcs
7b	Lock washer				2	
7a	Screw				2	
7	Coupling guard				1	
-	Kit, flange			99432761	1	pcs
440b	Retaining ring				1	
440a	Flange				1	
-	Kit, impeller,bearing			99432561	1	pcs
48	Nut				1	
49b	Split cone				1	
49	Impeller				1	
-	Kit, impeller,bush			99124961	2	pcs
48	Nut				1	
49b	Split cone				1	
49	Impeller				1	
-	Kit, impeller,red.bush			99124975	1	pcs
48	Nut				1	
49b	Split cone				1	
49a	Impeller				1	
-	Kit, O-rings			99262380	1	pcs
37	O-ring				2	
38	O-ring				8	
109	O-ring				1	
110	O-ring	Diameter: 21,5			1	
		Material type: EPDM				
		Thickness: 4,25				
-	Kit, plug			99262366	1	pcs
-	Plug cpl.				5	
25	Plug				1	
38	O-ring				1	
-	Air vent screw				1	
- 18	Air vent screw				1	
	Spindle					
	Plug					
38	O-ring				1	
-	Kit, shaft seal HQQE			99262346	1	pcs
	Grinding device				1	
105	Shaft seal				1	
-	Kit, staybolts			99190101	4	pcs
26	Staybolt				1	
36	Nut				1	
66a	Washer				1	
-	Kit, strap			99190061	2	pcs
26c	Washer	Designation: DIN 125A			1	
		Thickness: 1,6				
26b	Hex head screw				1	
26a	Strap				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, wear parts			99262419	1	pcs
	Adjusting fork				1	
45	Neck ring				4	
47d	Lock washer				3	
47c	Bush				3	
65	Neck ring retainer				4	
-	Motor				1	pcs
156	Fan			96766619	1	
151	Kit, fan cover			98062277	1	
156b	Kit, flange			98062294	1	
	Kit, lubrication nipple			98062533	1	
156a	Kit, ND-end shield cpl.			98062519	1	
159b	Kit, seal ring			98062553	1	
176	Kit, terminal board			98062239	1	
164a	Kit, terminal box			98062264	1	
2	Cover			99196497	1	pcs
+ 3	Chamber			99262605	1	pcs
+ 3	Chamber			99262663	1	pcs
+ 3	Chamber			99196655	1	pcs
+ 4a	Chamber			99446242	1	pcs
+ 4a	Chamber			99446263	1	pcs
+ 4a	Chamber			99415891	1	pcs
+ 4	Chamber			99262601	2	pcs
+ 4	Chamber			99262659	2	pcs
+ 4	Chamber			99196651	2	pcs
6	Base			99196473	1	pcs
26c	Washer	Designation: DIN 125A		99262704	2	pcs
		Thickness: 1,6				
26c	Washer	Designation: DIN 125A		99886930	2	pcs
		Thickness: 1,6				
32	Washer	Designation: DIN 125 A		98923051	16	pcs
		Internal diameter: 17				
		Outer diameter: 30				
		Thickness: 3				
36	Nut			99262693	4	pcs
37	O-ring			99865786	2	pcs
+ 44	Suction part			99196616	1	pcs
44a	Discharge part			99196622	1	pcs
48	Nut			99446217	1	pcs
48	Nut			99262681	3	pcs
48	Nut			99446219	1	pcs
48	Nut			99262684	3	pcs
49h	Impeller			99262545	1	pcs
49	Impeller			99262533	3	pcs
49h	Impeller			99262569	1	pcs
49	Impeller			99262557	3	pcs
49b	Split cone			99262687	4	pcs
49b	Split cone			99262690	4	pcs
51	Shaft			99196563	1	pcs
55	Sleeve			99196442	1	pcs
56	Base plate			99196488	1	pcs
66a	Washer			99262700	4	pcs