

Inventflow: Grundfos A-partner

Grundfos CRN 155-3-2 A-F-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/crn/grundfos-crn-155-3-2-a-f-a-e-hqqe>

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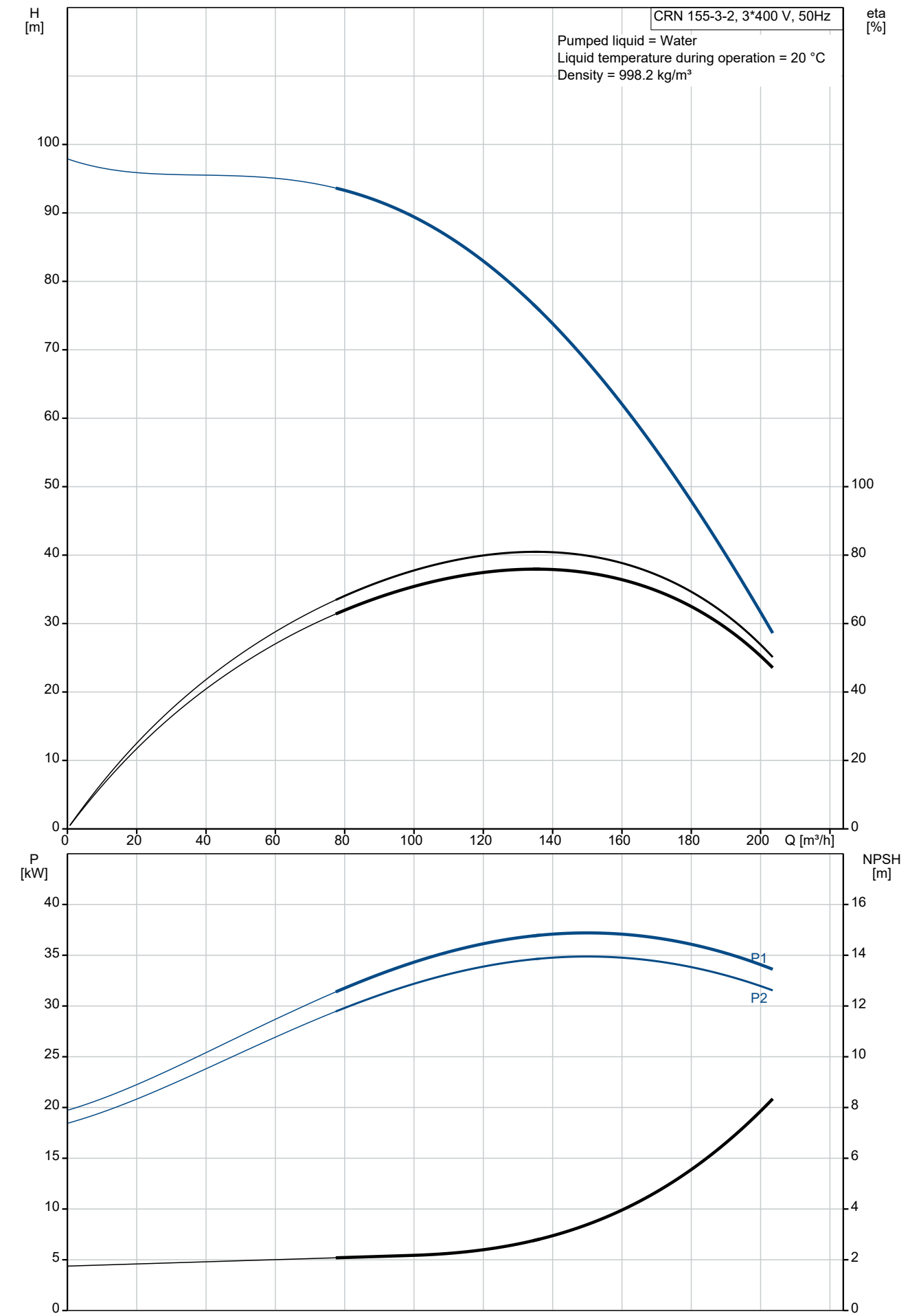
Datasheet



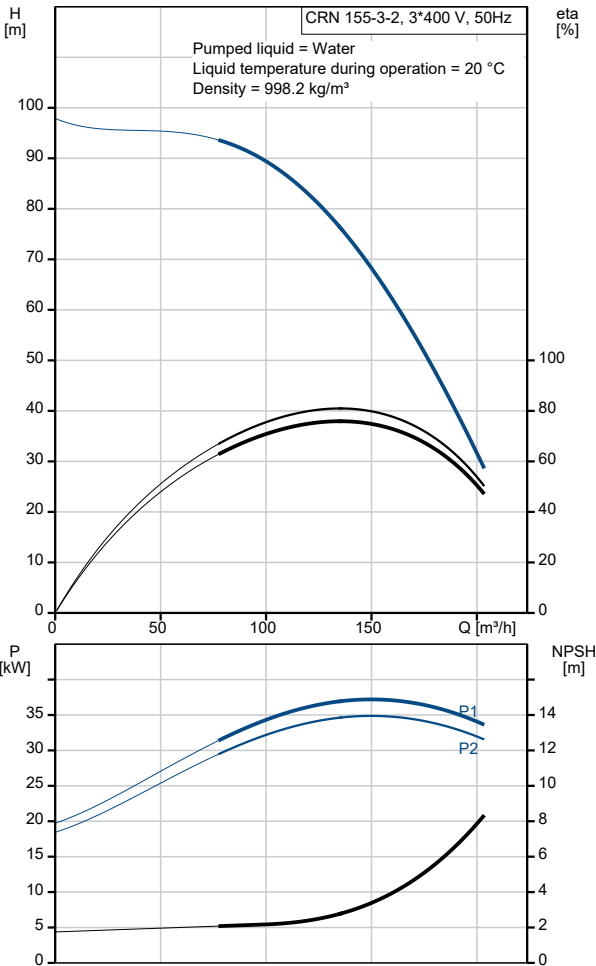
Qty.	Description																																																								
1	CRN 155-3-2 A-F-A-E-HQQE  Note! Product picture may differ from actual product Product No.: 99143273 Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with 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>2967 rpm</td></tr> <tr> <td>Rated flow:</td><td>155 m³/h</td></tr> <tr> <td>Rated head:</td><td>65.1 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>FF350</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:	2967 rpm	Rated flow:	155 m ³ /h	Rated head:	65.1 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:	FF350	Motor standard:	IEC	Motor type:	SIEMENS	IE Efficiency class:	IE3
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Qty.	Description
	Rated power - P2: 37 kW Power (P2) required by pump: 37 kW Mains frequency: 50 Hz Rated voltage: 3 x 380-420D/660-725Y V Rated current: 68,0-63,0/39,0-36,0 A Starting current: 670-670 % Cos phi - power factor: 0.88 Rated speed: 2955 rpm Efficiency: IE3 93,7% Motor efficiency at full load: 93.7-93.7 % Motor efficiency at 3/4 load: 93.9-93.9 % Motor efficiency at 1/2 load: 93.5-93.5 % Number of poles: 2 Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 81U15334 Controls: Frequency converter: NONE Others: Net weight: 423 kg Gross weight: 486 kg Shipping volume: 1.14 m³ Finnish LVI No.: 4925642 Thrust handling device: N Country of origin: DK Custom tariff no.: 84137075

99143273 CRN 155-3-2 A-F-A-E-HQQE 50 Hz

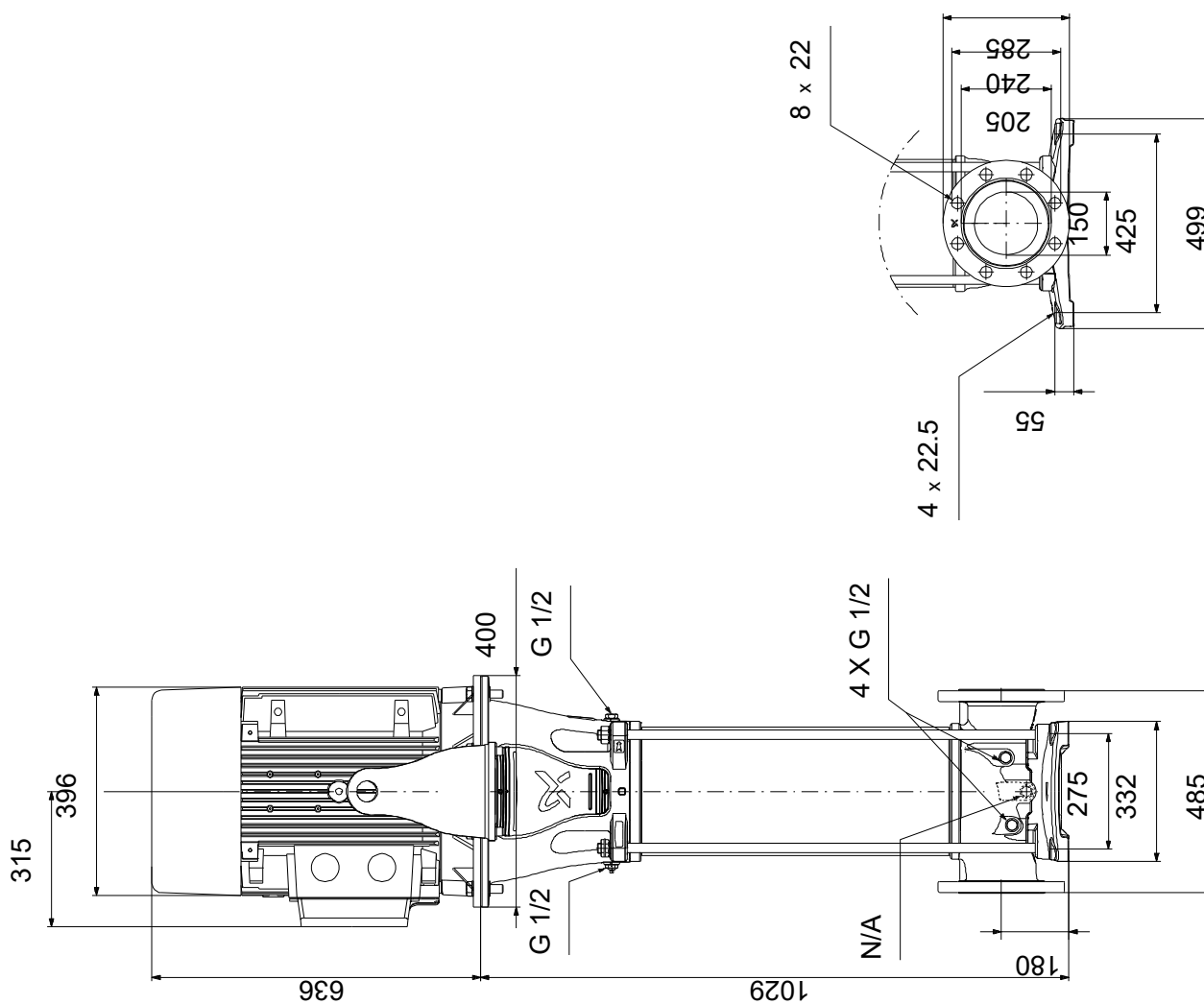


Description	Value		
General information:			
Product name:	CRN 155-3-2 A-F-A-E-HQQE		
Product No:	99143273		
EAN number:	5712607553111		
Technical:			
Pump speed on which pump data are based:	2967 rpm		
Rated flow:	155 m³/h		
Rated head:	65.1 m		
Maximum head:	97.8 m		
Stages:	3		
Impellers:	3		
Number of reduced-diameter impellers:	2		
Low NPSH:	N		
Pump orientation:	Vertical		
Shaft seal arrangement:	Single		
Code for shaft seal:	HQQE		
Approvals:	CE,EAC,UKCA,ACS,WRA S		
Curve tolerance:	ISO9906:2012 3B		
Pump version:	A		
Model:	A		
Cooling:	IC 411		
Materials:			
Base:	Stainless steel		
Base:	EN 1.4408		
Impeller:	Stainless steel		
Impeller:	EN 1.4401		
Material code:	A		
Code for rubber:	E		
Bearing:	WC/WC		
Support bearing:	Graflon		
Material certified according to:	European standards		
Installation:			
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:	FF350		
Connect code:	F		
Liquid:			
Pumped liquid:	Water		
Liquid temperature range:	-40 .. 120 °C		
Selected liquid temperature:	20 °C		
Density:	998.2 kg/m³		
Electrical data:			
Motor standard:	IEC		
Motor type:	SIEMENS		
IE Efficiency class:	IE3		
Rated power - P2:	37 kW		
Power (P2) required by pump:	37 kW		
Mains frequency:	50 Hz		
Rated voltage:	3 x 380-420D/660-725Y V		
Rated current:	68,0-63,0/39,0-36,0 A		
Starting current:	670-670 %		
Cos phi - power factor:	0.88		
Rated speed:	2955 rpm		
Efficiency:	IE3 93,7%		
Motor efficiency at full load:	93.7-93.7 %		
Motor efficiency at 3/4 load:	93.9-93.9 %		



Description	Value
Motor efficiency at 1/2 load:	93.5-93.5 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	81U15334
Controls:	
Frequency converter:	NONE
Others:	
Net weight:	423 kg
Gross weight:	486 kg
Shipping volume:	1.14 m ³
Finnish LVI No.:	4925642
Thrust handling device:	N
Country of origin:	DK
Custom tariff no.:	84137075

99143273 CRN 155-3-2 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 155-3-2, Product No. 99143273
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			99190039	1	pcs
- 8	Coupling cpl.				1	
10a	Coupling				2	
9	Hex socket head cap screw	Designation: DIN 912			4	
		Length (mm): 25				
		Thread: M10				
10	Parallel pin				1	
-	Kit, coupling guard			99196379	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,red.bush			99124975	2	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			99190100	4	pcs
26	Staybolt				1	
36	Nut				1	
66a	Washer				1	
-	Kit, strap			99190060	2	pcs
26c	Washer	Designation: DIN 125A			1	
		Thickness: 1,6				
26b	Hex head screw				1	
26a	Strap				1	
-	Kit, wear parts			99262419	1	pcs
	Adjusting fork				1	
45	Neck ring				4	
47d	Lock washer				3	
47c	Bush				3	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
65	Neck ring retainer				4	
-	Motor				1	pcs
156	Kit, fan			98062265	1	
151	Kit, fan cover			98062275	1	
156b	Kit, flange			98062279	1	
	Kit, lubrication nipple			98062531	1	
156a	Kit, ND-end shield cpl.			98062517	1	
159b	Kit, seal ring			98062551	1	
176	Kit, terminal board			98062236	1	
164a	Kit, terminal box			98062262	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	1	pcs
+ 4	Chamber			99262659	1	pcs
+ 4	Chamber			99196651	1	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				
28a	Hex head screw			96620478	2	pcs
28	Hex head screw			99869043	2	pcs
32	Washer	Designation: DIN 125 A		98923051	8	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	2	pcs
48	Nut			99446219	1	pcs
48	Nut			99262684	2	pcs
49h	Impeller			99262545	2	pcs
49	Impeller			99262533	1	pcs
49h	Impeller			99262569	2	pcs
49	Impeller			99262557	1	pcs
49b	Split cone			99262687	3	pcs
49b	Split cone			99262690	3	pcs
51	Shaft			99196562	1	pcs
55	Sleeve			99196441	1	pcs
56	Base plate			99196488	1	pcs
66a	Washer			99262700	4	pcs