

**Date:** 18/02/2019

Qty. | Description

1 | CRN 90-2 A-F-A-E-HQQE



Product No.: 96124227

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. A 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.

#### Further product details

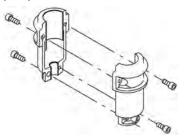
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An integral part of the process is a pretreatment. The entire process consists of these elements:

- 1) Alkaline-based cleaning.
- 2) Zinc phosphating.
- 3) Cathodic electro-deposition.
- 4) Curing to a dry film thickness 18-22 my m.

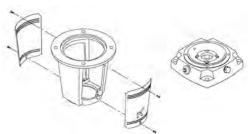
The colour code for the finished product is NCS 9000/RAL 9005.

### **Pump**

A long split coupling connects the pump and motor shaft. It is enclosed in the motor stool by means of two coupling guards. The long coupling makes it possible to replace the shaft seal without removing the motor from the pump.



The motor stool connects the pump head and motor. The pump head has a combined 1/2" priming plug and vent screw.



The pump is fitted with a balanced O-ring seal unit with a rigid torque-transmission system. This seal type is assembled in a cartridge unit which makes replacement safe and easy. Due to the balancing, this seal type is suitable for high-pressure applications. The cartridge construction also protects the pump shaft from possible wear from a dynamic O-ring between pump shaft and shaft seal.



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### Qty. | Description

Primary seal:

· Rotating seal ring material: silicon carbide (SiC)

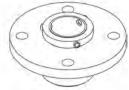
Stationary seat material: silicon carbide (SiC)

This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

Secondary seal material: EPDM (ethylene-propylene rubber)

EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.

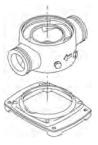




The shaft seal is retained in the pump head by a cover and screws. It can be replaced without removing the motor.

The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.

The pump has a stainless-steel base mounted on a separate base plate. The base and base plate are kept in position by the tension of the staybolts which hold the pump together. Both the inlet and the outlet side of the base have two pressure gauge tappings. The pump is secured to the foundation by four bolts through the base plate. The flanges are fastened to the base by means of locking rings.



#### Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with free-hole flange (FF).

Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II).

Electrical tolerances comply with IEC 60034.

The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.

The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.

The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

#### **Technical data**

Controls:

Frequency converter: NONE

Liquid:

Pumped liquid: Water



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### Qty. | Description

Liquid temperature range: -40 .. 120 °C Liquid temperature during operation: 20 °C Density: 998.2 kg/m³

#### Technical:

Pump speed on which pump data are based: 2923 rpm

Rated flow: 90 m³/h
Rated head: 42.5 m
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE
Approvals on nameplate: CE, EAC,ACS

Materials:

Curve tolerance:

Base: Stainless steel

EN 1.4408 AISI 316

ISO9906:2012 3B

Impeller: Stainless steel

EN 1.4401 AISI 316

Bearing: SIC Support bearing: Graflon

Installation:

Maximum ambient temperature: 60 °C Maximum operating pressure: 16 bar

Max pressure at stated temp: 16 bar / 120 °C

16 bar / -40 °C

Type of connection: DIN
Size of inlet connection: DN 100
Size of outlet connection: DN 100
Pressure rating for pipe connection: PN 16
Flange size for motor: FF300

Electrical data:

Motor standard: IEC
Motor type: 160MD
IE Efficiency class: IE3
Rated power - P2: 15 kW
Power (P2) required by pump: 15 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-415D/660-690Y V Rated current: 28,0-26,0/16,2-15,6 A

Starting current: 660-780 %
Cos phi - power factor: 0.89-0.87
Rated speed: 2930-2950 rpm
Efficiency: IE3 91,9%
Motor efficiency at full load: 91.9-91.9 %
Motor efficiency at 3/4 load: 92.4 %
Motor efficiency at 1/2 load: 92.4 %

Number of poles: 2

Enclosure class (IEC 34-5): 55 Dust/Jetting

Insulation class (IEC 85): F

Others:

Minimum efficiency index, MEI â%¥: 0.70 Net weight: 181 kg Gross weight: 214 kg

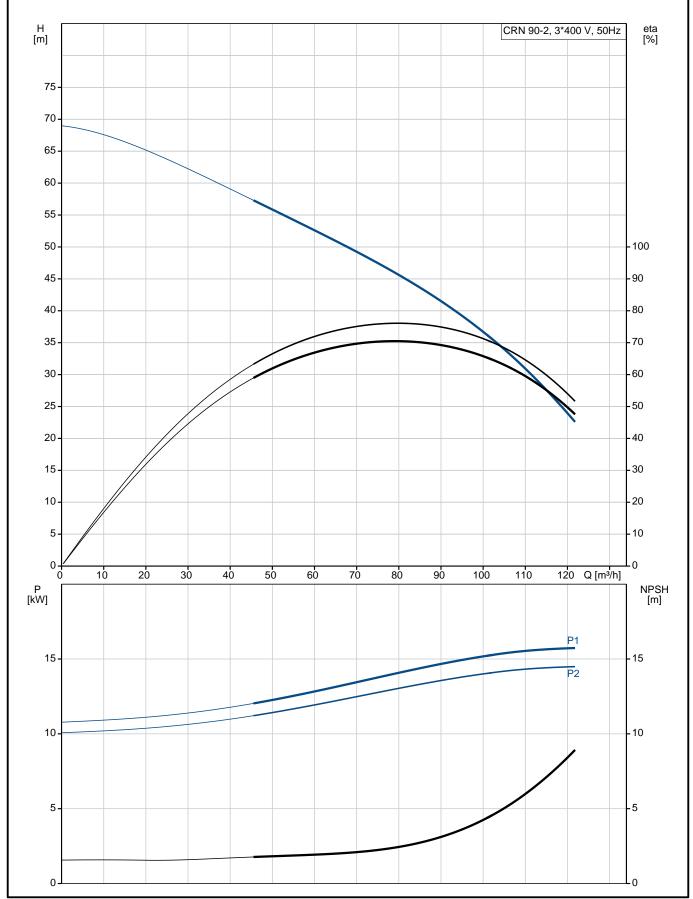


_	12		Date:	18/02/2019	
•	Description				
	Shipping volume: Danish VVS No.:	0.495 m³ 385919020			
	Danish VVO No	303919020			



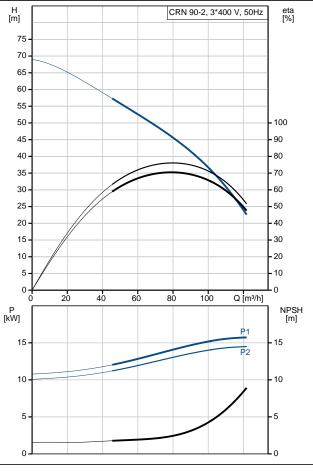
**Date:** 18/02/2019

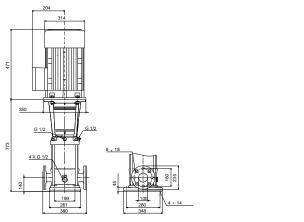
# 96124227 CRN 90-2 A-F-A-E-HQQE 50 Hz

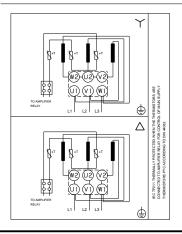




Description	Value
General information:	
Product name:	CRN 90-2
1 Toduct Hame.	A-F-A-E-HQQE
Product No:	96124227
EAN number:	5700396705415
Technical:	
Pump speed on which pump data are	2923 rpm
based:	·
Rated flow:	90 m³/h
Rated head:	42.5 m
Head max:	68.9 m
Stages:	2
Impellers:	2
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CE, EAC,ACS
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	В
Materials:	0
Base:	Stainless steel
	EN 1.4408
	AISI 316
Impeller:	Stainless steel
	EN 1.4401
	AISI 316
Material code:	A
Code for rubber:	E
Bearing:	SIC
Support bearing:	Graflon
Installation:	00.00
Maximum ambient temperature:	60 °C
Maximum operating pressure:	16 bar
Max pressure at stated temp:	16 bar / 120 °C
Tuna of asympations	16 bar / -40 °C
Type of connection:	DIM
	DIN
Size of inlet connection:	DN 100
Size of inlet connection: Size of outlet connection:	DN 100 DN 100
Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection:	DN 100 DN 100 PN 16
Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor:	DN 100 DN 100 PN 16 FF300
Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code:	DN 100 DN 100 PN 16
Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid:	DN 100 DN 100 PN 16 FF300 F
Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid:	DN 100 DN 100 PN 16 FF300 F
Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range:	DN 100 DN 100 PN 16 FF300 F Water -40 120 °C
Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation:	DN 100 DN 100 PN 16 FF300 F  Water -40 120 °C 20 °C
Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density:	DN 100 DN 100 PN 16 FF300 F Water -40 120 °C
Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data:	DN 100 DN 100 PN 16 FF300 F  Water -40 120 °C 20 °C 998.2 kg/m³
Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard:	DN 100 DN 100 PN 16 FF300 F  Water -40 120 °C 20 °C 998.2 kg/m³
Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type:	DN 100 DN 100 PN 16 FF300 F  Water -40 120 °C 20 °C 998.2 kg/m³  IEC 160MD
Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class:	DN 100 DN 100 PN 16 FF300 F  Water -40 120 °C 20 °C 998.2 kg/m³  IEC 160MD IE3
Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	DN 100 DN 100 PN 16 FF300 F  Water -40 120 °C 20 °C 998.2 kg/m³  IEC 160MD IE3 15 kW
Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	DN 100 DN 100 PN 16 FF300 F  Water -40 120 °C 20 °C 998.2 kg/m³  IEC 160MD IE3 15 kW 15 kW
Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2:	DN 100 DN 100 PN 16 FF300 F  Water -40 120 °C 20 °C 998.2 kg/m³  IEC 160MD IE3 15 kW 15 kW 50 Hz
Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range: Liquid temperature during operation: Density: Electrical data: Motor standard: Motor type: IE Efficiency class: Rated power - P2: Power (P2) required by pump:	DN 100 DN 100 PN 16 FF300 F  Water -40 120 °C 20 °C 998.2 kg/m³  IEC 160MD IE3 15 kW 15 kW







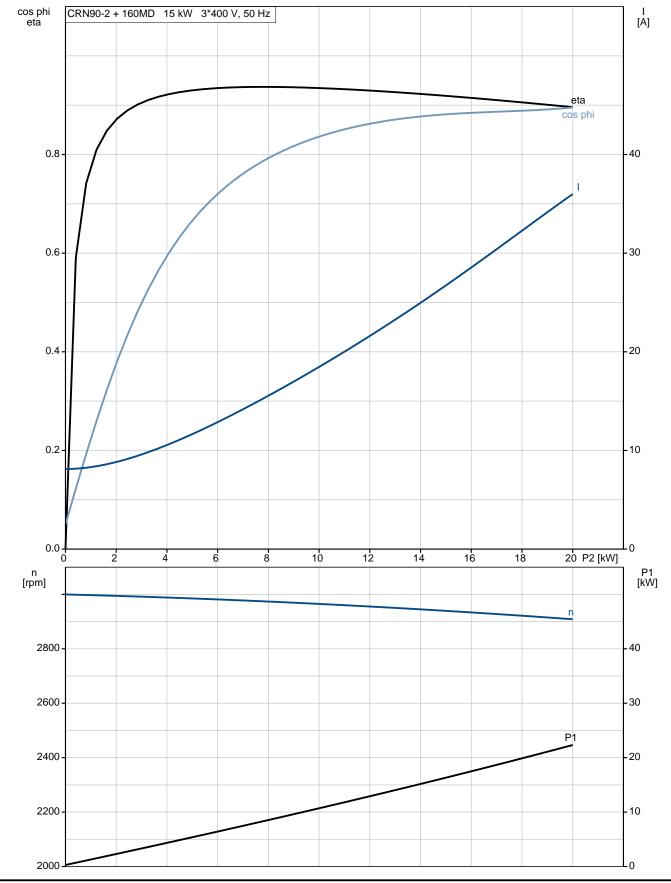


Description	Value
Starting current:	660-780 %
Cos phi - power factor:	0.89-0.87
Rated speed:	2930-2950 rpm
Efficiency:	IE3 91,9%
Motor efficiency at full load:	91.9-91.9 %
Motor efficiency at 3/4 load:	92.4 %
Motor efficiency at 1/2 load:	92.4 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U17526
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	181 kg
Gross weight:	214 kg
Shipping volume:	0.495 m <sup>3</sup>
Danish VVS No.:	385919020



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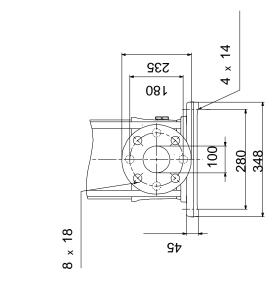
# 96124227 CRN 90-2 A-F-A-E-HQQE 50 Hz

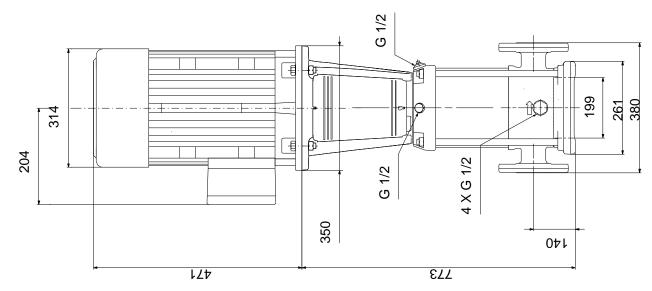




**Date:** 18/02/2019

# 96124227 CRN 90-2 A-F-A-E-HQQE 50 Hz





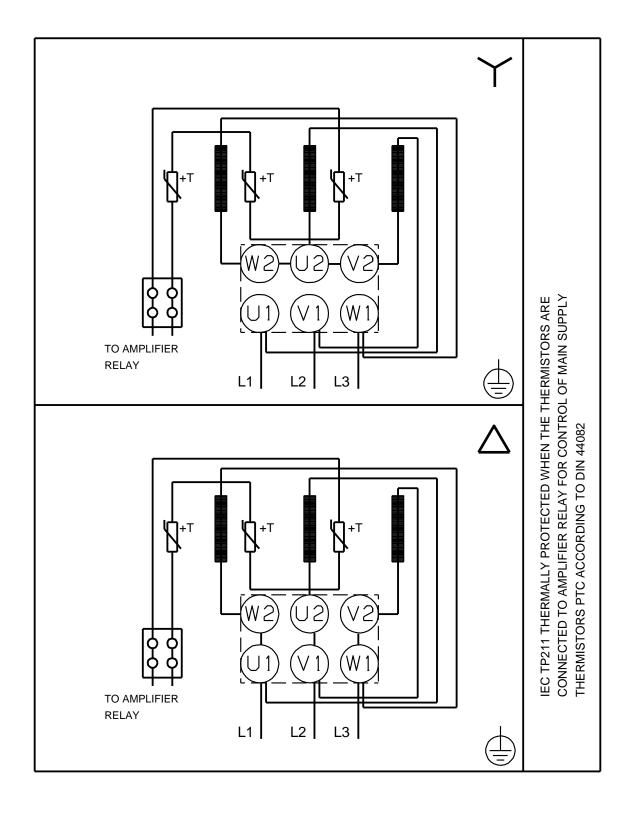
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date:

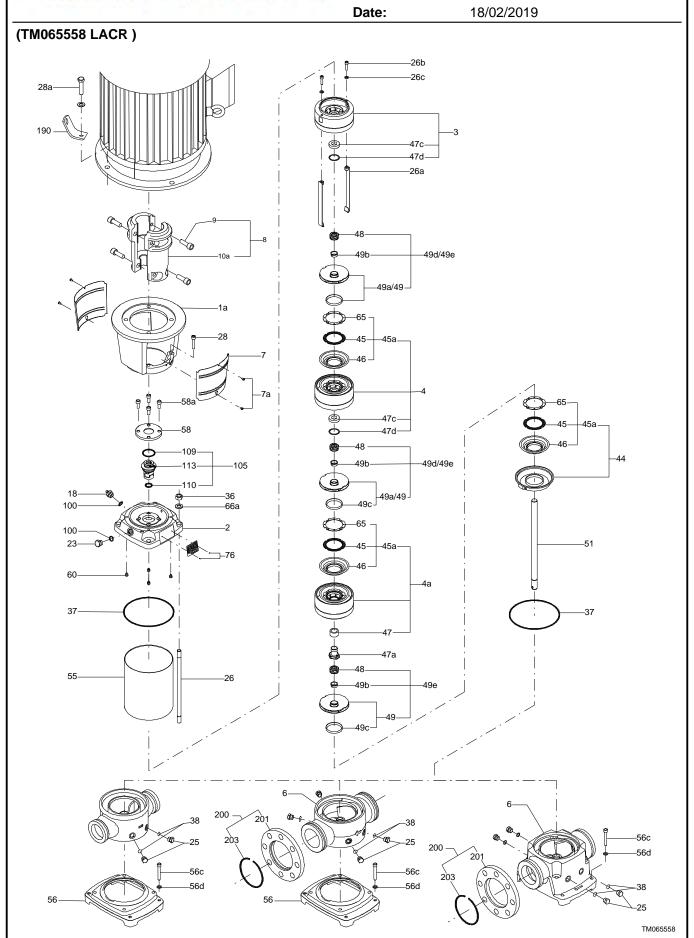
18/02/2019

## 96124227 CRN 90-2 A-F-A-E-HQQE 50 Hz



Note! All units are in [mm] unless others are stated.

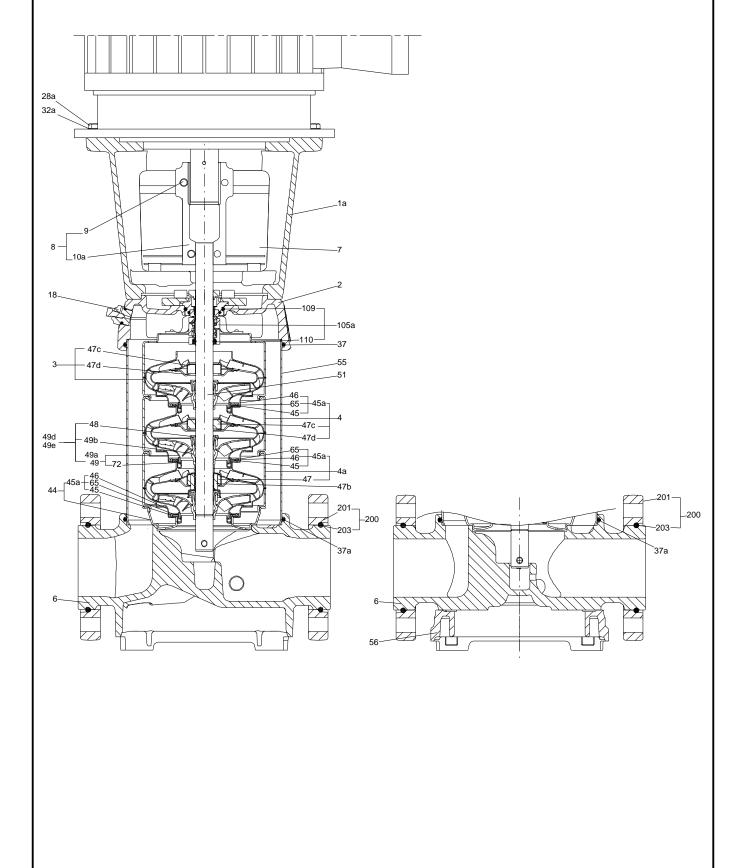






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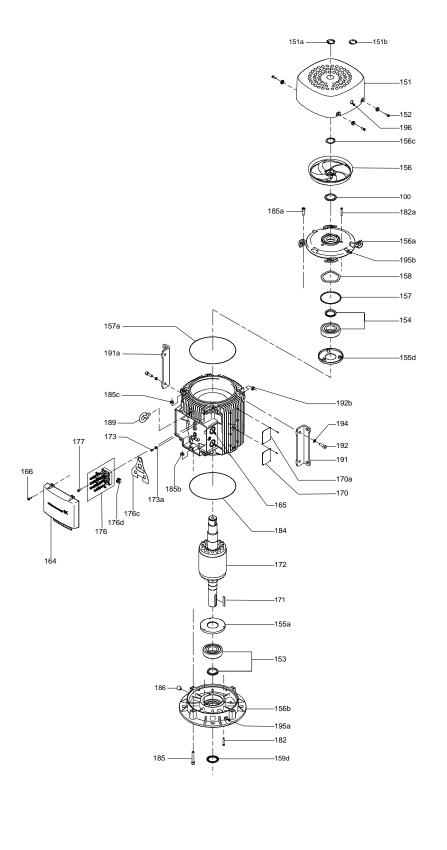
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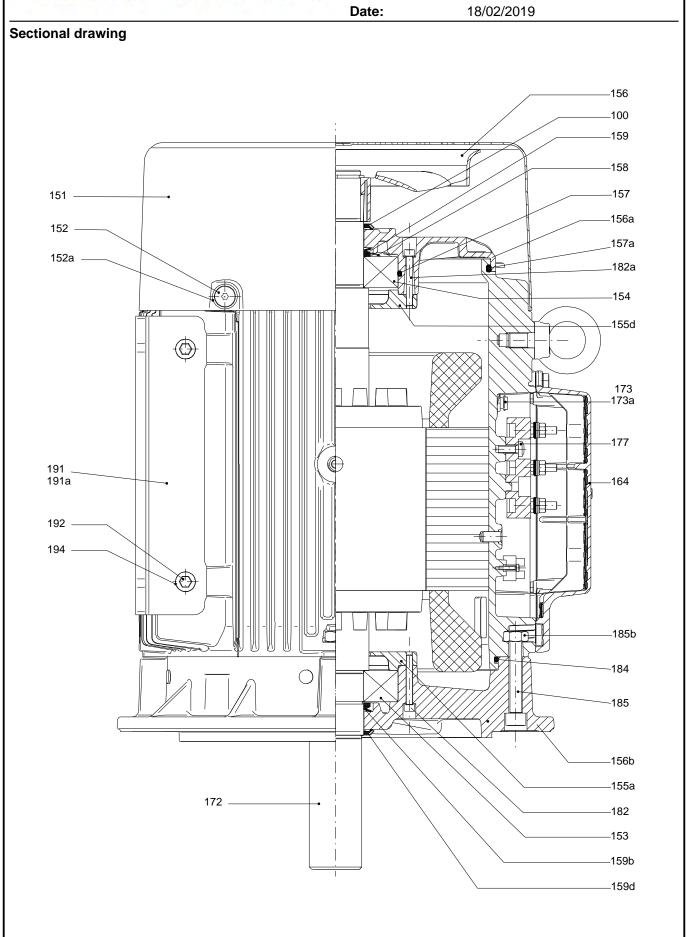


**Date:** 18/02/2019

**Exploded view** 









**Date:** 18/02/2019

# Spare parts CRN 90-2, Product No. 96124227 Valid from 3.3.2014 (1410)

	Pos	Description	Annotation	Classification Data	Part no.		Unit
-	•	Base			96587699	1	pcs
	6	Base			00.150.100	1	
-	80	Kit, chamber stack			96458128		pcs
-	80	Chamber stack				1	
-	3	Upper chamber cpl.					
		Cone					
		Spare, turbulence optimizer KP					
		Spare, turbulence optimizer KP					
		Spare, turbulence optimizer KP					
		Spare, turbulence optimizer KP					
		Spare, turbulence optimizer KP					
	47d	Lock ring					
	47c	Bush					
-	4a	Intermediate chamber cpl.					
		Cone					
		Spare, turbulence optimizer KP					
		Spare, turbulence optimizer KP					
		Spare, turbulence optimizer KP					
		Spare, turbulence optimizer KP					
		Spare, turbulence optimizer KP					
-	45a	Neck ring cpl.					
	45	Neck ring					
	46	Neck ring					
	65	Top f/neck ring					
	47	Bearing					
	26c	Washer		Designation: DIN	N 125A		
				Thickness: 1,6			
	26b	Hex socket head cap screw					
	26a	Strap cpl.		Length (mm): 19	13		
				Thread: M8			
-	44	Suction interconnector cpl.					
		Suction interconnector					
	45a	Neck ring cpl.					
-	47a	Bearing					
		Driver					
		Holder					
		Disc spring					
		Bearing ring					
-	49e	Impeller cpl.					
	48	Nut					
	49b	Split cone					
	49	Impeller					
-	49e	Impeller cpl.					
-	48	Nut					
	49b	Split cone					
	490						
-	49	Impeller					
	400	Impeller hub					
	49c	Wear ring					
	51	Shaft			00004457	4	
-	4-	Kit, chambers			98634157		pcs
-	4a	Intermediate chamber cpl.				1	
		Cone					
1		Spare, turbulence optimizer KP					



Pos	Description	Annotation Classification Data	Part no.	Qty	<i>r</i> .	Unit
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
	Spare, turbulence optimizer KP					
45a	Neck ring cpl.					
45	Neck ring					
46	Neck ring					
65	Top f/neck ring					
47	Bearing					
- 47a	Bearing				1	
	Driver					
	Holder					
	Disc spring					
	Bearing ring					
-	Kit, coupling		96416592	1		pcs
	Adjusting fork				1	•
- 8	Coupling cpl.	Dimension: 22/42			1	
9	Hex socket head cap screw	Designation: DIN	912			
	The cooling that cap continues	Length (mm): 25	· · · -			
		Thread: M10				
10a	Coupling half	Tilledd. Wife				
	Kit, coupling guard		96505135	1		pcs
7a	Socket button head screw		30303133		4	pus
7 a					2	
1	Coupling guard		00000440			n 00
	Kit, cover	Design of the DIN Off	98832448	1		pcs
58a	Hex socket head cap screw	Designation: DIN 912	<u> </u>		4	
		Length (mm): 25				
		Thread: M10				
58	Cover				1	
-	Kit, impeller		98593752	1		pcs
- 44	Suction interconnector cpl.				1	
	Suction interconnector					
45a	Neck ring cpl.					
48	Nut				1	
- 49e	Impeller cpl.				1	
48	Nut					
49b	Split cone					
49	Impeller					
-	Kit, impeller		98635108	1		pcs
48	Nut				1	
48	Nut				1	
49b	Split cone				1	
- 49	Impeller				1	
	Impeller hub				•	
49c	Wear ring					
-	Kit, plug		96505136	1		pcs
- 18	Air vent screw		20000100		1	P03
10	Spindle					
	Plug					
05	=					
25	Plug				4	
25	Plug	D:			1	
38	O-ring	Diameter: 16,3			2	
		Material type: FKM				
		Thickness: 2,4				
38	O-ring	Diameter: 16,3			4	
		Material type: FKM				
		Thickness: 2,4				
38	O-ring	Diameter: 16,3			6	
		Material type: FKM				



Pos	Description	Annotation Classification Data Part no.	Qty.	Hr
1 03	Description	Thickness: 2,4	æιy.	OI.
38	O-ring	Diameter: 16,3	2	,
30	O-IIIIg			-
		Material type: EPDM		
00	0.1	Thickness: 2,4		
38	O-ring	Diameter: 16,3	4	1
		Material type: EPDM		
		Thickness: 2,4		
	Kit, seals	96416601	1	рс
	Adjusting fork		1	
37	O-ring		2	2
38	O-ring	Diameter: 16,3	2	2
		Material type: EPDM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3	4	ı
00	C IIIIg	Material type: EPDM		
		Thickness: 2,4		
00	Consider	THICKNESS. 2,4		
60	Spring		4	
109	O-ring	<b>B</b> 1	1	
110	O-ring	Diameter: 21,2	1	
		Material type: EPDM		
		Thickness: 3,55		
	Kit, shaft seal HQQE	96525458	1	рс
	Grinding device		1	
105	Shaft seal	Material type: HQQE	1	
	Adjusting fork	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,		
109	O-ring			
110	O-ring	Diameter: 21,5		
	3 mig	Material type: EPDM		
		Thickness: 4,25		
	Kitaan manta			
4-	Kit, wear parts	98497509		рс
45	Seal ring		1	
45	Neck ring		2	
47d	Lock ring		2	2
47c	Bush		1	
49c	Wear ring		1	
49c	Wear ring		2	2
65	Top f/neck ring		1	
65	Top f/neck ring		2	2
	Motor	85904134		рс
	Kit, bearing cpl.	967966		
32b	Waved washer	0010001	•	
153	Angular-contact bearing			
154	Ball bearing			
157	O-ring			
159	V-ring			
	Kit, bearing plate	967966	i4 1	
155.a	Bearing cover			
208a	Gasket			
208	Hex socket head cap screw	Designation: DIN912		
		Length (mm): 40		
		Thread: M5		
	Kit, eyebolt	967967	2 1	
189	Eyebolt			
	Kit, fan	967966	j4 1	
156.c		3073000		
156.0	Fan			
100		007000	17 4	
154	Kit, fan cover	9679664	. T	
151	Fan cover			
152.a	Rubber bush			



Pos	Description	Annotation Classification Data	Part no. Qt	y. Un
152	Hex head cap screw			
196	Diaphragm			
	Kit, flange		96796662	1
156.b	Flange			
159.b	Seal ring			
185.b	Nut			
185	Hex socket head cap screw			
186	Drain plug			
195.a	Grease nipple			
	Kit, gaskets		96798508	1
184	O-ring	Diameter: 235		
	Kit, lubrication nipple		96796671	1
195.b	Grease nipple			
195.a	Grease nipple			
100.4	Kit, ND-end shield cpl.		96796669	1
32b	Waved washer		30730003	'
156.a	End shield NDE			
150.a				
	O-ring			
159	V-ring			
185.c	Nut			
185.a	Hex socket head cap screw			
195.b	Grease nipple			
	Kit, shaft seal		96843459	1
159.b	V-ring			
159	V-ring			
	Kit, terminal board		96796657	1
	Terminal connection			
	Washer			
36	Hex nut			
173	Torx Screw			
176.d	Terminal board			
176	Terminal board			
177	Torx Screw			
	Kit, terminal box cover		96796659	1
164	Terminal box cover			
273a	Pan head thread forming screw			
1a	Motor stool		98993921 1	pcs
2	Pump head		97789459 1	pcs
3	Upper chamber cpl.		98635152 1	•
				pcs
47c	Bulk, Bush (10 pcs)		99321194	
4a	Bulk, Intermediate chamber cpl. (5 pcs)		99262866 1	pcs
+ 45a	Bulk, Neck ring cpl. (5 pcs)		99517702	
6	Base		97974018 1	pcs
7a	Bulk, Socket button head screw (10 pcs)		96549696 4	pcs
7	Bulk, Coupling guard (10 pcs)		96603279 2	pcs
- 8	Coupling cpl.	Dimension: 22/42	96587704 1	pcs
+ 18	Bulk, Air vent screw (5 pcs)		96547461 1	pcs
- 18	Air vent screw		95061351 1	pcs
25	Bulk, Plug (10 pcs)		96536013 1	pcs
26c	Bulk, Washer (4 pcs)	Designation: DIN 125A	99262704 2	pcs
	, ( F )	Thickness: 1,6		
26c	Washer	Designation: DIN 125A	96586880 2	pcs
200	TAGIO	Thickness: 1,6	20000000 2	pus
26h	Pulk Hay apply thood as a serous (40 and)	11110011655. 1,0	98931380 2	
26b	Bulk, Hex socket head cap screw (10 pcs)	Law eth (com), 400		pcs
26a	Strap cpl.	Length (mm): 193	98983912 2	pcs
	0. 1. 1.	Thread: M8		
26	Staybolt	Length (mm): 417	98976757 4	pcs
		Thread: M16		



Pos	Description	Annotation	Classification Data	Part no.	Qty	. Unit
28.a	, ( -   /			96620478	4	pcs
28	Bulk, Hex socket head cap screw (10 pcs)		Designation: DIN 912	96536147	4	pcs
			Length (mm): 50			
			Thread: M10			
32	Bulk, Washer (100 pcs)		Designation: DIN 125 A	98923051	8	pcs
			Internal diameter: 17			
			Outer diameter: 30			
			Thickness: 3			
36	Bulk, Hex nut (20 pcs)		Thread: M16	96620480	4	pcs
38	Bulk, O-ring (10 pcs)		Diameter: 16,3	99198815	2	pcs
			Material type: EPDM			
			Thickness: 2,4			
38	Bulk, O-ring (50 pcs)		Diameter: 16,3	99412727	2	pcs
			Material type: EPDM			
			Thickness: 2,4			
⊦ 47a	Bulk, Bearing (5 pcs)			99270663	1	pcs
48	Bulk, Nut (3 pcs)			99262680	1	pcs
48	Bulk, Nut (10 pcs)			99262683	1	pcs
48	Bulk, Nut (10 pcs)			96536016	1	pcs
49e	Bulk, Impeller cpl. (10 pcs)			99557799	1	pcs
48	Bulk, Nut (3 pcs)			992626	088	1
48	Bulk, Nut (10 pcs)			992626	883	1
48	Bulk, Nut (10 pcs)			965360	)16	1
49b	Bulk, Split cone (10 pcs)			965360	)10	1
49b	Bulk, Split cone (10 pcs)			96536010	1	pcs
55	Outer sleeve			98820407	1	pcs
56	Base plate			97789433	1	pcs
58	Cover			98893158	1	pcs
60	Bulk, Spring (20 pcs)			96536032	4	pcs
105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984086	1	pcs
	Adjusting fork		· ·	965878	396	1
109	Bulk, O-ring (10 pcs)			965475	86	1
+ 105	Bulk, Shaft seal (12 pcs)		Material type: HQQE	96984070		pcs
440b	· · · ·		· · · · · · · · · · · · · · · · · · ·	96547435		pcs