

Date: 16/02/2019

Qty. | Description

1 | CRN 15-4 A-P-A-E-HQQE



Product No.: 96501949

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 PJE (Victaulic®) couplings.

The pump is fitted with a 3-phase, fan-cooled asynchronous motor.

Further product details

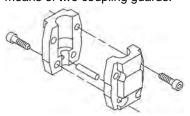
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

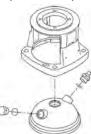
The colour code for the finished product is NCS 9000/RAL 9005.

Pump

A standard split coupling connects the pump and motor shaft. It is enclosed in the pump head/motor stool by means of two coupling guards.



The pump head and flange for motor mounting is made in one piece (cast iron). The pump head cover is a separate component (stainless steel). 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.

Primary seal:

• Rotating seal ring material: silicon carbide (SiC)



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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 screwed into the pump head.

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. The outlet side of the base has a drain plug. The pump is secured to the foundation by four bolts through the base plate. The base is prepared for connection by means of PJE (Victualic®) couplings.



Motor

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

Motor-mounting designation in accordance with IEC 60034-7: IM B 14 (Code I) / IM 3601 (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
Liquid temperature range: -20 .. 120 °C
Liquid temperature during operation: 20 °C
Density: 998.2 kg/m³



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Technical:

Pump speed on which pump data are based: 2917 rpm

Rated flow: 17 m³/h
Rated head: 44.8 m
Pump orientation: Vertical
Shaft seal arrangement: Single
Code for shaft seal: HQQE
Approvals on nameplate: CE, EAC,ACS
Curve tolerance: ISO9906:2012 3B

Materials:

Base: Stainless steel

EN 1.4408 AISI 316 Stainless steel

Impeller: Stainless stee

EN 1.4401 AISI 316

Bearing: SIC

Installation:

Maximum ambient temperature: 60 °C Maximum operating pressure: 25 bar

Max pressure at stated temp: 25 bar / 120 °C

25 bar / -20 °C

Type of connection:

Size of inlet connection:

DN 50
2 inch
Size of outlet connection:

DN 50

2 inch

Pressure rating for pipe connection: PN 50 Flange size for motor: FT130

Electrical data:

Motor standard: IEC
Motor type: 112MC
IE Efficiency class: IE3
Rated power - P2: 4 kW
Power (P2) required by pump: 4 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 380-415D V

Rated current: 7.9 A Starting current: 1000-1110 % Cos phi - power factor: 0.87-0.87 Rated speed: 2920-2940 rpm Efficiency: IE3 88,1% Motor efficiency at full load: 88.1 % Motor efficiency at 3/4 load: 88.6 % Motor efficiency at 1/2 load: 85.2 %

Number of poles: 2

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

Insulation class (IEC 85): F

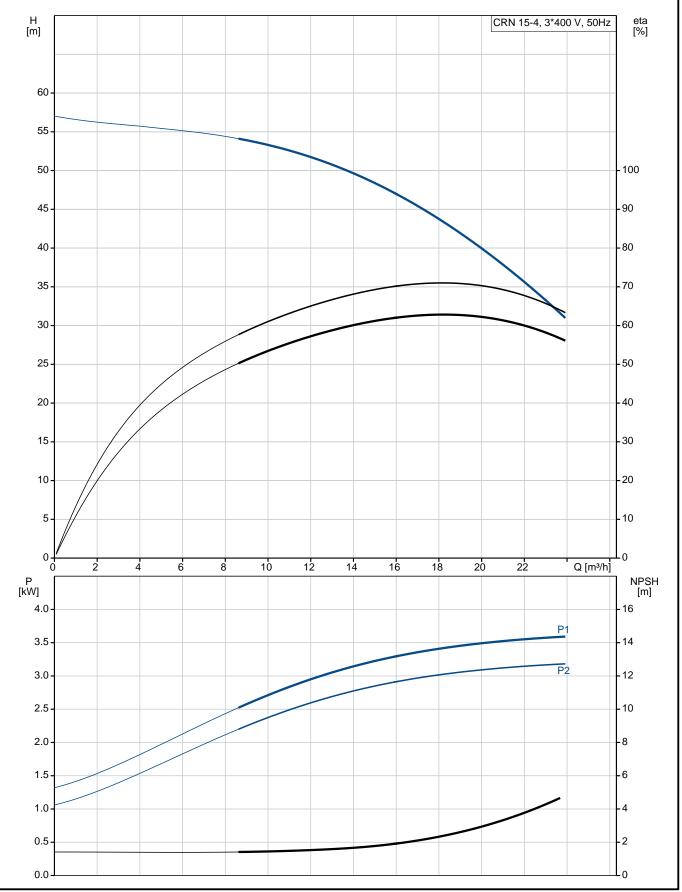
Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 65 kg
Gross weight: 69 kg
Shipping volume: 0.13 m³
Danish VVS No.: 385914040



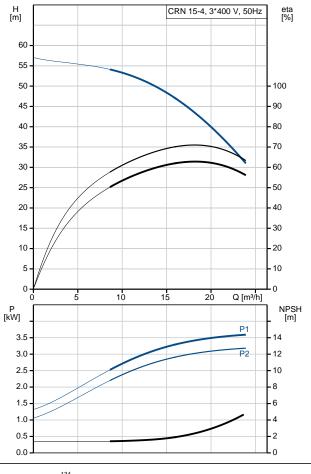
Date: 16/02/2019

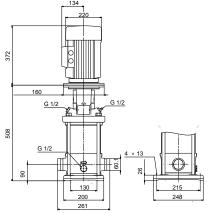
96501949 CRN 15-4 A-P-A-E-HQQE 50 Hz

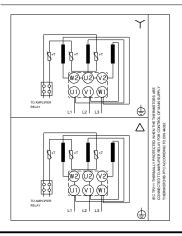




Description	Value
General information:	
Product name:	CRN 15-4
Product name.	A-P-A-E-HQQE
Product No:	96501949
EAN number:	5700396232447
Technical:	
Pump speed on which pump data are	2017 rpm
based:	2917 Ipili
Rated flow:	17 m³/h
Rated head:	44.8 m
Head max:	56.8 m
Stages:	4
Impellers:	4
Number of reduced-diameter 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:	A
Materials:	
Base:	Stainless steel
	EN 1.4408
	AISI 316
EAN number: 5700396232447 Technical: Pump speed on which pump data are based: 17 m³/h Rated flow: 44.8 m Head max: 56.8 m He	Stainless steel
F	EN 1.4401
Material code:	
Code for rubber:	E
	SIC
	60 °C
	25 bar
· · · · · · · · · · · · · · · · · · ·	25 bar / 120 °C
Type of connection:	
. , , , , , , , , , , , , , , , , , , ,	
Size of inlet connection:	
Size of inlet connection:	DN 50
	DN 50 2 inch
Size of inlet connection: Size of outlet connection:	DN 50 2 inch DN 50
Size of outlet connection:	DN 50 2 inch DN 50 2 inch
Size of outlet connection: Pressure rating for pipe connection:	DN 50 2 inch DN 50 2 inch PN 50
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor:	DN 50 2 inch DN 50 2 inch PN 50 FT130
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code:	DN 50 2 inch DN 50 2 inch PN 50 FT130
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid:	DN 50 2 inch DN 50 2 inch PN 50 FT130
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid:	DN 50 2 inch DN 50 2 inch PN 50 FT130 P
Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code: Liquid: Pumped liquid: Liquid temperature range:	DN 50 2 inch DN 50 2 inch PN 50 FT130 P Water -20 120 °C
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 50 2 inch DN 50 2 inch PN 50 FT130 P Water -20 120 °C 20 °C
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 50 2 inch DN 50 2 inch PN 50 FT130 P Water -20 120 °C 20 °C
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 50 2 inch DN 50 2 inch PN 50 FT130 P Water -20 120 °C 20 °C 998.2 kg/m³
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 50 2 inch DN 50 2 inch PN 50 FT130 P Water -20 120 °C 20 °C 998.2 kg/m³
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 50 2 inch DN 50 2 inch PN 50 FT130 P Water -20 120 °C 20 °C 998.2 kg/m³ IEC 112MC
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 50 2 inch DN 50 2 inch PN 50 FT130 P Water -20 120 °C 20 °C 998.2 kg/m³ IEC 112MC IE3
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 50 2 inch DN 50 2 inch PN 50 FT130 P Water -20 120 °C 20 °C 998.2 kg/m³ IEC 112MC IE3 4 kW
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 50 2 inch DN 50 2 inch PN 50 FT130 P Water -20 120 °C 20 °C 998.2 kg/m³ IEC 112MC IE3 4 kW 4 kW
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: Mains frequency:	DN 50 2 inch DN 50 2 inch PN 50 FT130 P Water -20 120 °C 20 °C 998.2 kg/m³ IEC 112MC IE3 4 kW 4 kW 50 Hz
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 50 2 inch DN 50 2 inch PN 50 FT130 P Water -20 120 °C 20 °C 998.2 kg/m³ IEC 112MC IE3 4 kW 4 kW







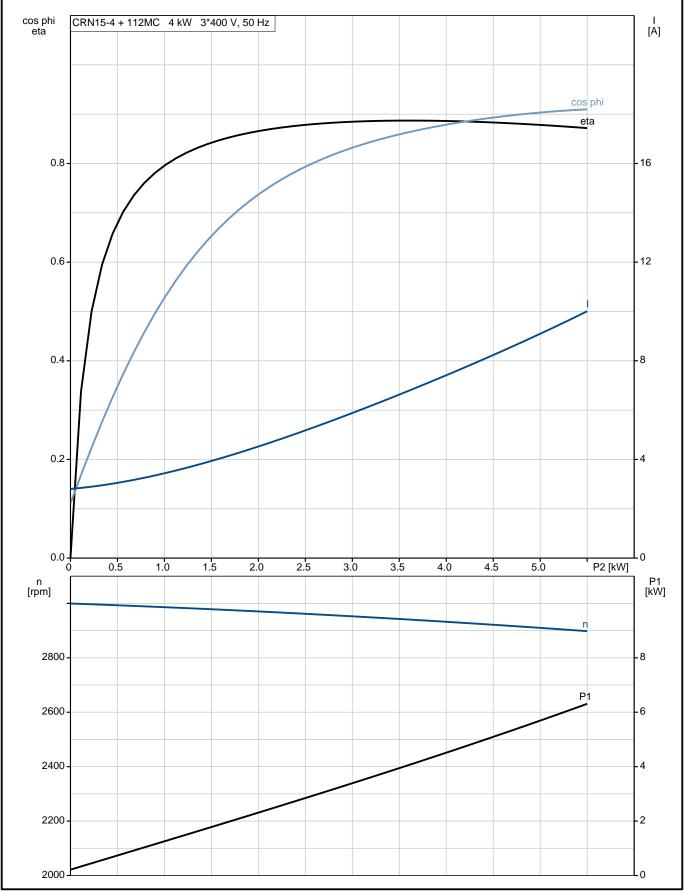


Description	Value
Starting current:	1000-1110 %
Cos phi - power factor:	0.87-0.87
Rated speed:	2920-2940 rpm
Efficiency:	IE3 88,1%
Motor efficiency at full load:	88.1 %
Motor efficiency at 3/4 load:	88.6 %
Motor efficiency at 1/2 load:	85.2 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U15413
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	65 kg
Gross weight:	69 kg
Shipping volume:	0.13 m ³
Danish VVS No.:	385914040



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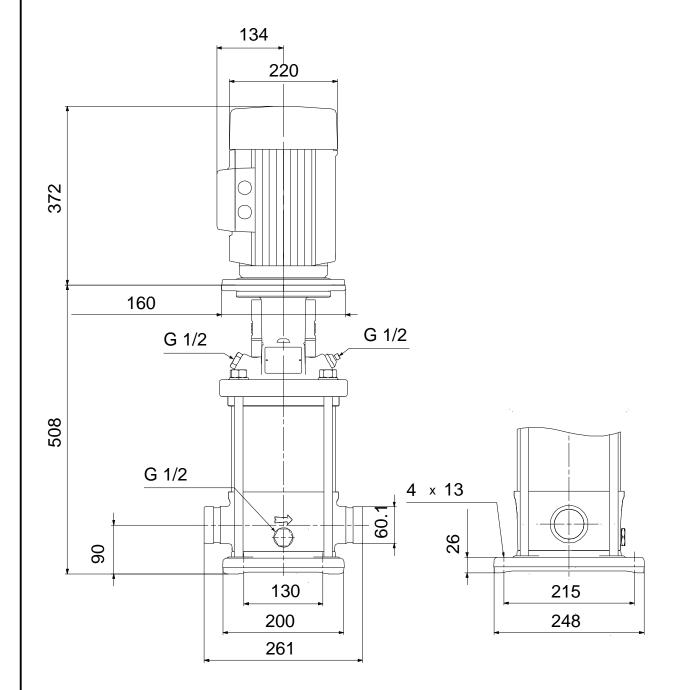
96501949 CRN 15-4 A-P-A-E-HQQE 50 Hz





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96501949 CRN 15-4 A-P-A-E-HQQE 50 Hz

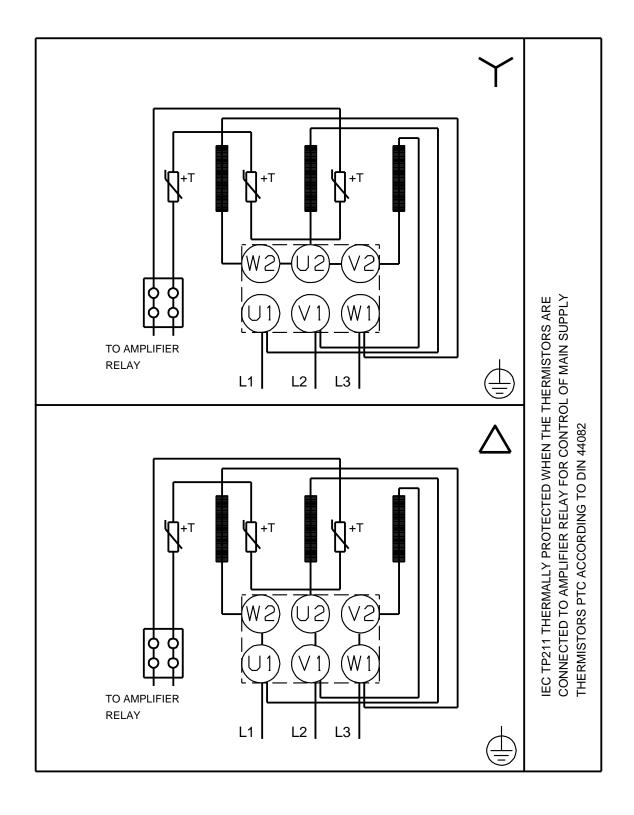


Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date: 16/02/2019

96501949 CRN 15-4 A-P-A-E-HQQE 50 Hz

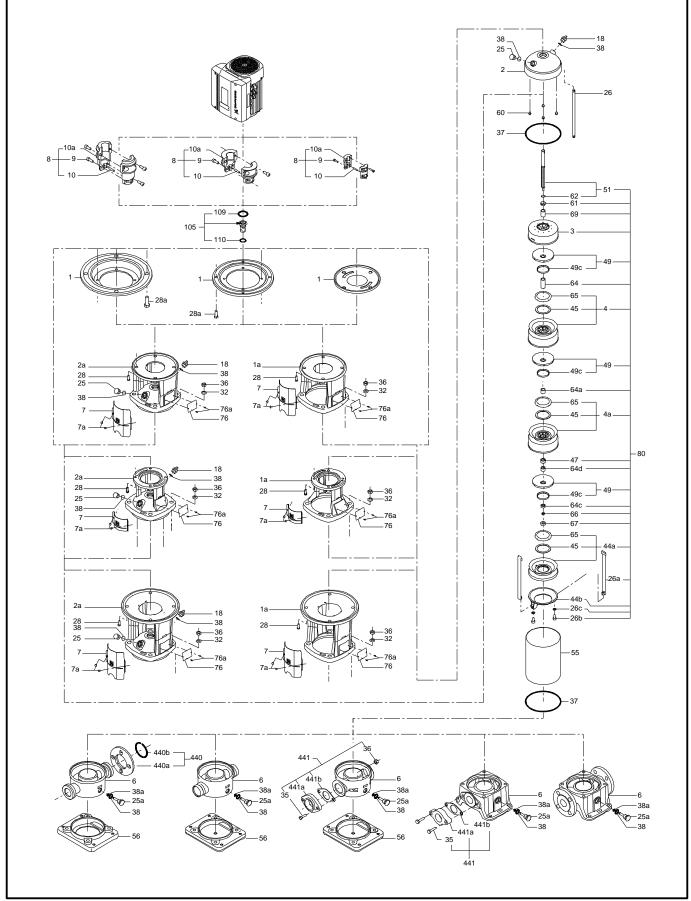


Note! All units are in [mm] unless others are stated.



Date: 16/02/2019

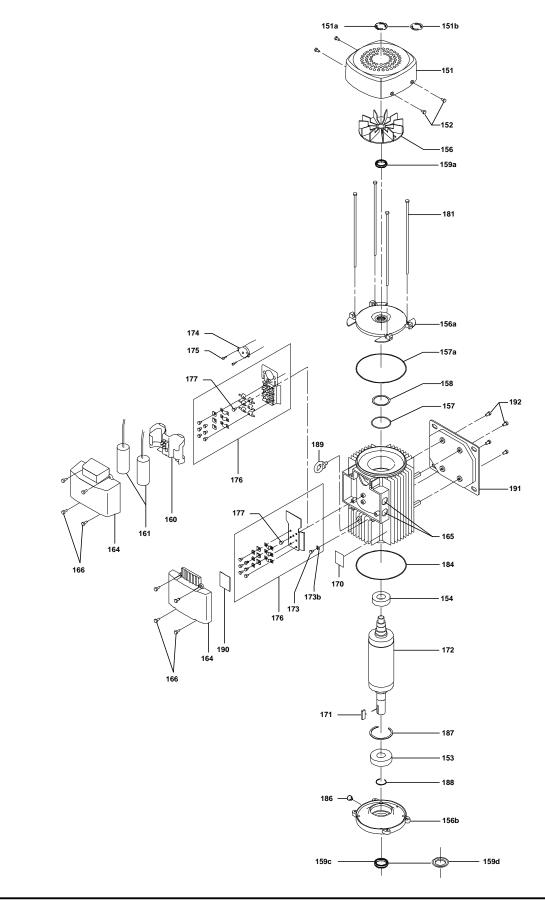
(tm069469 for MECR15,20 standard)





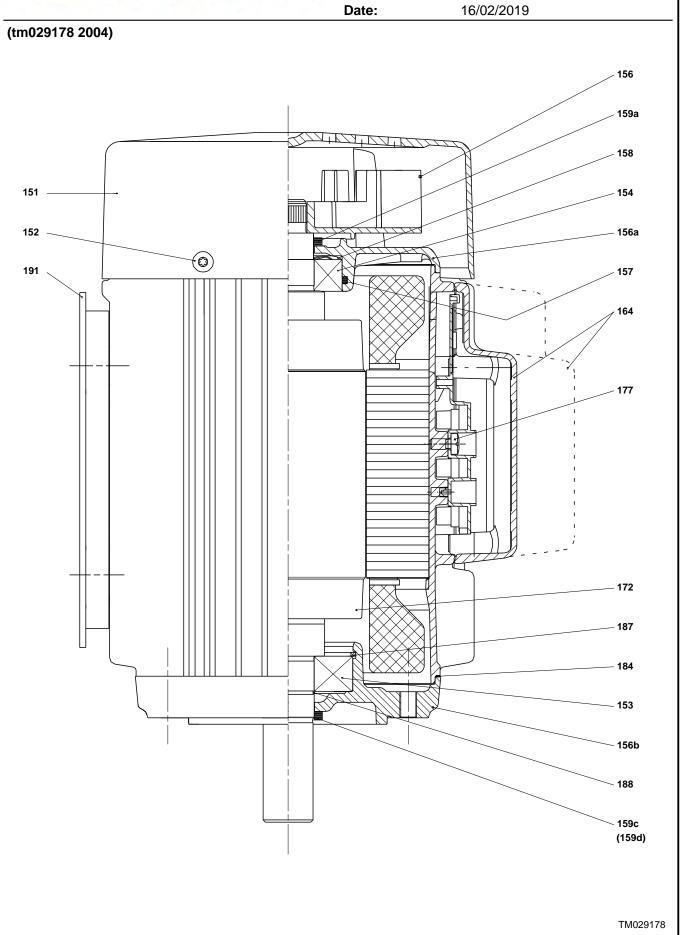
Date: 16/02/2019

(tm029184 0505)



TM029184







Date: 16/02/2019

Spare parts CRN 15-4, Product No. 96501949 Valid from 1.1.2011 (1152)

Kit, chamber stack Chamber stack			96491762	1	рс
CHAIDDEL SIACK				1	
				1	ı
Top intermediate chamber					
•					
•					
•					
= :					
Washer		Designation: DIN 125A			
		Thickness: 1,6			
Hex head screw					
Inlet part					
Inlet part cpl.					
Neck ring cpl.					
Retainer					
Bearing ring					
Impeller cpl.					
Wear ring					
Impeller					
Shaft, spline, cpl.					
Bar					
Stop ring					
Spacing bush					
		Length (mm): 12.7			
1 011					
Spacing pipe					
		- 5- (,			
Lock nut		Thread: M8			
			96511350	1	р
. •					
		Designation: DIN 912			4
Tion cooker hour oup solow					•
Coupling half		THICAG. MIC			2
		Diameter: 5			
Οιιαιτ μ ιτι				l	1
Kit coupling guard		Lengin (mm). 26	06500640	1	
			90009612		po
	Inlet part Inlet part cpl. Neck ring cpl. Retainer Bearing ring Impeller cpl. Wear ring Impeller Shaft, spline, cpl. Bar Stop ring Spacing bush Spacing pipe Spacing bush Spacing pipe Spacing pipe Spacing pipe Spacing pipe Wedge lock washer	Cover plate Intermediate chamber Intermediate chamber cpl. Sand Lifter Guide cup Bearing plate Guide vane Intermediate chamber Neck ring cpl. Bearing bush Retainer Intermediate chamber cpl. Intermediate chamber Neck ring cpl. Retainer Strap cpl. Washer Hex head screw Inlet part Inlet part cpl. Neck ring cpl. Retainer Bearing ring Impeller cpl. Wear ring Impeller cpl. Bar Stop ring Spacing bush Spacing pipe Spacing pipe Wedge lock washer Lock nut Spacing bush Kit, coupling Adjusting fork Hex socket head cap screw Kit, coupling guard Kit, coupling guard Kit, coupling guard	Cover plate Intermediate chamber Intermediate chamber cpl. Sand Lifter Guide cup Bearing plate Guide vane Intermediate chamber Neck ring cpl. Bearing bush Retainer Intermediate chamber cpl. Intermediate chamber cpl. Intermediate chamber cpl. Intermediate chamber strap cpl. Retainer Strap cpl. Washer Designation: DIN 125A Thickness: 1,6 Hex head screw Inlet part Inlet part Inlet part cpl. Neck ring cpl. Retainer Bearing ring Impeller cpl. Wear ring Impeller Shaft, spline, cpl. Bar Stop ring Spacing bush Spacing pipe Length (mm): 12.7 Spacing pipe Length (mm): 12.7 Spacing pipe Internal diameter: 17.5 Length (mm): 26 Kit, coupling half Shaft pin Diameter: 5 Length (mm): 26 Kit, coupling nard	Cover plate Intermediate chamber opl. Sand Lifter Guide cup Bearing plate Guide vane Intermediate chamber Neck ring opl. Bearing bush Retainer Intermediate chamber Neck ring opl. Intermediate chamber Neck ring opl. Retainer Strap opl. Washer Strap opl. Washer Designation: DIN 125A Thickness: 1,6 Hex head screw Inlet part Shaft, spline, opl. Bar Stop ring Spacing bush Spacing bipe Length (mm): 12.7 Spacing pipe Length (mm): 15.00 Spacing pipe Length (mm): 5.00 Spacing pipe Length (mm): 43.6 Wedge lock washer Lock nut Thread: M8 Spacing bush Spacing bush Spacing bush Spacing pipe Length (mm): 43.6 Wedge lock washer Lock nut Thread: M8 Spacing bush Spacing bush Spacing bush Spacing bush Spacing bipe Length (mm): 25 Thread: M8 Coupling Adjusting fork Hex socket head cap screw Designation: DIN 912 Length (mm): 25 Thread: M8 Coupling half Shaft pin Diameter: 5 Length (mm): 26 Thread: M8 Coupling half Shaft pin Diameter: 5 Length (mm): 26 Thread: M8 Kit, coupling apd 96509612	Cover plate Intermediate chamber cpl. Sand Lifter Guide cup Bearing plate Guide vane Intermediate chamber Neck ring cpl. Bearing bush Retainer Intermediate chamber opl. Intermediate chamber pl. Intermediate chamber Neck ring cpl. Retainer Intermediate chamber Neck ring cpl. Retainer Strap cpl. Retainer Strap cpl. Washer Designation: DIN 125A Thickness: 1,6 Hex head screw Inlet part Inlet part cpl. Neck ring cpl. Retainer Bearing ring Impeller cpl. Wear ring Impeller Shaft, spline, cpl. Bar Stop ring Spacing bush Spacing bush Spacing pipe Length (mm): 12.7 Spacing pipe Length (mm): 5.00 Intermal diameter: 17,5 Length (mm): 43.6 Wedge lock washer Lock nut Spacing bush Kit, coupling fork Hex socket head cap screw Designation: DIN 912 Length (mm): 25 Thread: M8 Coupling half Shaft pin Diameter: 5 Length (mm): 26 Internad: M8 Shaft pin Diameter: 5 Internad: M8 Internad: M



Pos	Description	Annotation Classification Data	Part no.	Qty	. Un
7	Coupling guard				2
	Kit, gaskets		96509609	1	pc
	Gasket				2
24	O-ring				2
37	O-ring				2
38a	O-ring	Diameter: 5,3			1
oou		Material type: EPDM			
		Thickness: 2,4			
20	O win a				4
38	O-ring	Diameter: 16,3			1
		Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			2
		Material type: EPDM			
		Thickness: 2,4			
60	Spring				4
415	Gasket				2
441b	Gasket	Internal diameter: 49			2
4410	Gasket	Outer diameter: 92			_
		Thickness: 2			
	Kit, plug		96511312	1	рс
18	Air vent screw				1
	Spindle				
	Plug				
25a	Drain plug				1
25	Plug				1
38a	O-ring	Diameter: 5,3			1
Soa	O-ning				1
		Material type: FKM			
		Thickness: 2,4			
38a	O-ring	Diameter: 5,3			1
		Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			1
		Material type: FKM			
		Thickness: 2,4			
38	O ring	Diameter: 16,3			2
30	O-ring				_
		Material type: FKM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			1
		Material type: EPDM			
		Thickness: 2,4			
38	O-ring	Diameter: 16,3			2
	- J	Material type: EPDM			
		Thickness: 2,4			
	Vit. aboft and HOOF	HIICKHUSS. Z,4	06544044	1	- -
	Kit, shaft seal HQQE		96511844	1	pc
	Emery cloth				1
	Grinding device				1
105	Shaft seal	Material type: HQQE			1
	Kit, wear parts		96511824	1	рс
4a	Intermediate chamber cpl.				1
	Sand Lifter				
	Guide cup				
	Bearing plate				
	Guide vane				
3	Intermediate chamber				
45a	Neck ring cpl.				
47	Bearing bush				
65	Retainer				
20	Washer	Designation: DIN 125A			2
26.c					



	Description Hey hard corous	Annotation Classification Data Part no. Qty	ر. U
26.b	Hex head screw		2
45a	Neck ring cpl.		5
47	Bearing ring		1
49c	Wear ring		6
62	Retaining ring		1
64d	Spacing bush		1
64c	Spacing pipe	Length (mm): 12.7	1
64b	Spacing bush	Length (mm): 5.00	1
64a	Spacing pipe	Internal diameter: 17,5	1
		Length (mm): 17	
65	Retainer		5
66	Wedge lock washer		1
67	Lock nut	Thread: M8	1
	Motor	85903740 1	р
	Kit, bearing cpl.	96279802	
111	Ball bearing	Designation: 6206.2Z.C3.SYN	•
153	Angular-contact bearing	2001griduori. 0200.22.00.0111	
157	<u> </u>	Diameter: 62	
137	O-ring		
		Material type: NBR	
450	Marra di con alc	Thickness: 3	
158	Waved washer		
	Kit, end shield	96279790	1
156a	End shield		
157	O-ring	Diameter: 62	
		Material type: NBR	
		Thickness: 3	
158	Waved washer		
159a	Seal ring		
	Kit, eyebolt	96279825	1
189	Eyebolt		
.00	Kit, fan	96279758	1
156	Fan	00210100	•
159c	Seal ring		
159a	Seal ring		
159a	<u> </u>	0007070	4
4546	Kit, fan cover	96279756	1
151b	Label		
151	Fan cover		
152	Pan head thread forming screw		
	Kit, flange	96279779	1
156b	Flange		
159.c	Seal ring		
186	Drain plug		
	Kit, shaft seal	96279763	1
159c	Seal ring		
159a	Seal ring		
	Kit, staybolts	96279793	1
181	Pan head staybolt	332, 0, 00	
	Kit, terminal board	96279769	1
173a	Base	50219109	•
173a 173		Designation: COMPLEODY TOP	
	Pan head thread forming screw	Designation: COMBLTORX T25	
176	Slot cheese head screw	Designation: COMBI TORX T25	
		Length (mm): 10	
		Thread: M5	
176	Terminal		
176	Connecting piece		
176	Wire clamp		
176	Terminal board		
177	Pan head screw		
	Kit, terminal box	96279772	



	Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
	164	Terminal box cover w/gasket					
	166	Pan head thread forming screw			00004740	_	
	1a 2	Pump head			98824712		pcs
		Pump cover			98481138		pcs
	3	Bulk, Top intermediate chamber (3 pcs)			98371113		pcs
	3	Top intermediate chamber			98734577		pcs
	4a	Bulk, Intermediate chamber cpl. (10 pcs)			96538853		pcs
+	4a	Intermediate chamber cpl.			98371117		pcs
-	4	Bulk, Intermediate chamber cpl. (10 pcs)			96538840		pcs
	3	Intermediate chamber			98371		
	65	Retainer			965473		
	4	Intermediate chamber cpl.			98371115		pcs
	6	Base			98654159		pcs
	7.a	Bulk, Combi Slot Torx screw (1000 pcs)			96886324		pcs
	10	Bulk, Shaft pin (10 pcs)		Diameter: 5	96536473	1	pcs
				Length (mm): 26			
	18	Bulk, Air vent screw (5 pcs)			96547461	1	pcs
+	18	Air vent screw			95061351	1	pcs
	25	Bulk, Plug (10 pcs)			96536013		pcs
	26a	Strap cpl.			98926722	2	pcs
	26.c	Bulk, Washer (4 pcs)		Designation: DIN 125A	99262704	2	pcs
				Thickness: 1,6			
	26.c	Washer		Designation: DIN 125A	96586880	2	pcs
				Thickness: 1,6			
	26	Staybolt			98982876	4	pcs
	37.a	Bulk, O-ring (20 pcs)			96538857	1	pcs
	38a	Bulk, O-ring (10 pcs)		Diameter: 5,3	99198791	1	pcs
				Material type: EPDM			
				Thickness: 2,4			
	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			
	44b	Inlet part			98814593	1	pcs
+	44a	Inlet part cpl.			98818922	1	pcs
	47	Bulk, Bearing ring (10 pcs)			96538795		pcs
	49	Bulk, Impeller cpl. (5 pcs)			98394288		pcs
	49c	Bulk, Wear ring (10 pcs)			965473		
+	49	Impeller cpl.			98394449		pcs
	51	Shaft, spline, cpl.			98368630		pcs
-	55	Outer sleeve			98812636		•
							pcs
	56	Base plate			98481136		pcs
	60	Bulk, Spring (20 pcs)			96538963		pcs
	64d	Bulk, Spacing bush (20 pcs)		1	96538947		pcs
	64c	Bulk, Spacing pipe (5 pcs)		Length (mm): 12.7	97980241	1	pcs
	64b	Bulk, Spacing bush (20 pcs)		Length (mm): 5.00	96535098		pcs
	64a	Bulk, Spacing pipe (10 pcs)		Internal diameter: 17,5	98417487	1	pcs
	0.4	D II 0		Length (mm): 17	00=0=46=	_	
	64	Bulk, Spacing pipe (20 pcs)		Length (mm): 43.6	96535107		pcs
	66	Bulk, Wedge lock washer (10 pcs)			96536157		pcs
	67	Bulk, Lock nut (10 pcs)		Thread: M8	98277008		pcs
	69	Bulk, Spacing bush (20 pcs)			96538949		pcs
	76a	Bulk, Rivet (100 pcs)			96620489		pcs
	105	Bulk, Shaft seal (11 pcs)		Material type: HQQE	96538914	1	pcs