

**Date:** 16/02/2019

Qty. | Description

1 | CR 10-8 A-A-A-E-HQQE



Note! Product picture may differ from actual product

Product No.: 96500986

Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in 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 oval flanges with internal Rp threads.

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

#### Further product details

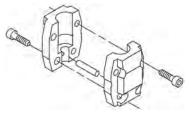
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

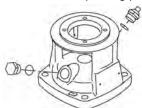
The colour code for the finished product is NCS 9000/RAL 9005.

## **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, pump head cover and flange for motor mounting is made in one piece. The pump head has a combined 1/2" priming plug and vent screw.





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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)
- 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)

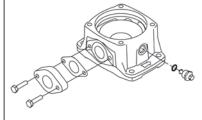
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



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 base is made of cast iron. The oval flanges are bolted to the base. The outlet side of the base has a drain plug. The pump is secured to the foundation by four bolts through the base plate.



#### 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



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## Qty. | Description

Liquid temperature during operation: 20 °C Density: 998.2 kg/m³

Technical:

Pump speed on which pump data are based: 2902 rpm

Rated flow: 10 m³/h
Rated head: 64.8 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: Cast iron

EN 1561 EN-GJL-200

**ASTM A48-25B** 

Impeller: Stainless steel

EN 1.4301 AISI 304

Bearing: SIC

Installation:

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

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

16 bar / -20 °C

Type of connection:

Size of inlet connection:

1 1/2 inch

Size of outlet connection:

1 1/2 inch

Pressure rating for pipe connection:

PN 16

Flange size for motor:

FT130

Electrical data:

Motor standard: IEC
Motor type: 100LC
IE Efficiency class: IE3
Rated power - P2: 3 kW
Power (P2) required by pump: 3 kW
Mains frequency: 50 Hz

Rated voltage: 3 x 220-240D/380-415Y V

Rated current: 11.0/6.30 A Starting current: 840-920 % Cos phi - power factor: 0.87-0.82 Rated speed: 2900-2920 rpm Efficiency: IE3 87,1% Motor efficiency at full load: 87.1 % Motor efficiency at 3/4 load: 88.0 % Motor efficiency at 1/2 load: 87.7 %

Number of poles: 2

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

Insulation class (IEC 85): F

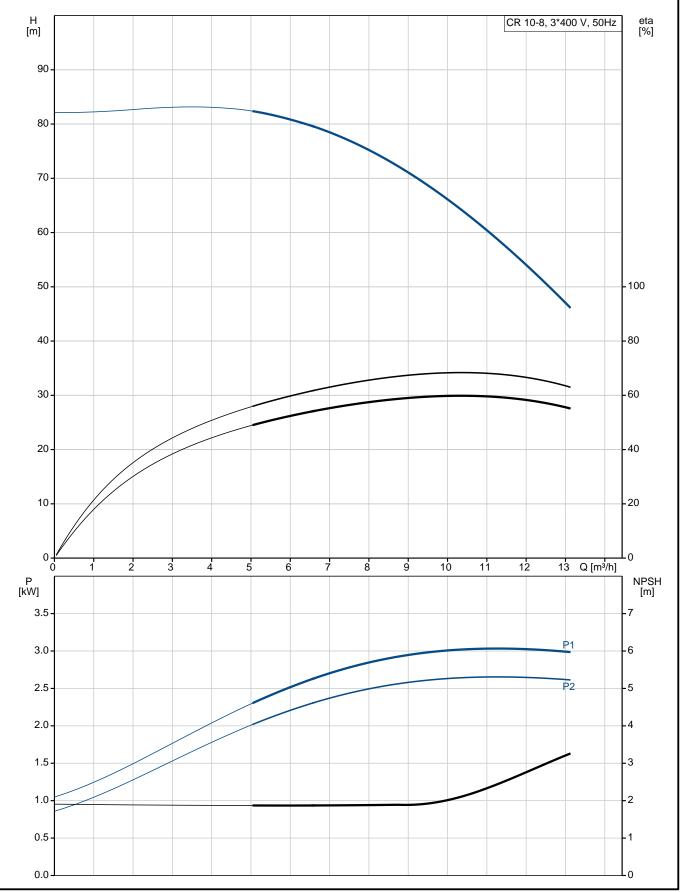
Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 57 kg
Gross weight: 61 kg
Shipping volume: 0.13 m³
Danish VVS No.: 385903080



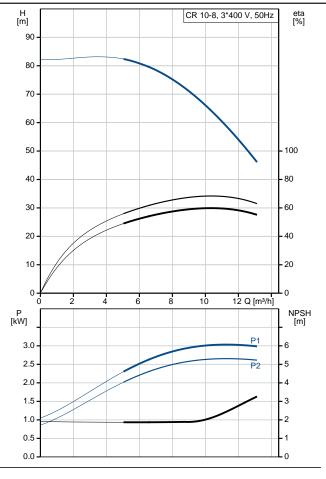
**Date:** 16/02/2019

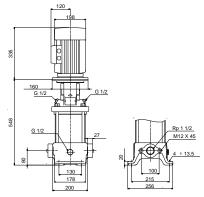
# 96500986 CR 10-8 A-A-A-E-HQQE 50 Hz

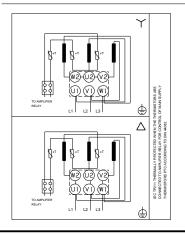




Paradiation.	W-I
Description General information:	Value
General information:	CR 10-8
Product name:	A-A-A-E-HQQE
Product No:	96500986
EAN number:	5700396213071
Technical:	
Pump speed on which pump data are based:	2902 rpm
Rated flow:	10 m³/h
Rated flow:	64.8 m
Head max:	81.7 m
Stages:	8
Impellers:	8
Number 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:	Cook ivon
Base:	Cast iron EN 1561 EN-GJL-200
	ASTM A48-25B
Impeller:	Stainless steel
ппропот.	EN 1.4301
	AISI 304
Material code:	A
Code for rubber:	E
Code for rubber: Bearing:	E SIC
Bearing: Installation:	SIC
Bearing: Installation: Maximum ambient temperature:	SIC 60 °C
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure:	SIC  60 °C  16 bar
Bearing: Installation: Maximum ambient temperature:	SIC  60 °C  16 bar  16 bar / 120 °C
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C  Oval / Rp
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: Size of inlet connection:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C  Oval / Rp  1 1/2 inch
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C  Oval / Rp
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C  Oval / Rp  1 1/2 inch  1 1/2 inch
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C  Oval / Rp  1 1/2 inch  1 1/2 inch  PN 16
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C  Oval / Rp  1 1/2 inch  1 1/2 inch  PN 16  FT130
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: Size of inlet connection: Size of outlet connection: Pressure rating for pipe connection: Flange size for motor: Connect code:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C  Oval / Rp  1 1/2 inch  1 1/2 inch  PN 16  FT130
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: 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:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C  Oval / Rp  1 1/2 inch  1 1/2 inch  PN 16  FT130  A
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: 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:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C  Oval / Rp  1 1/2 inch  1 1/2 inch  PN 16  FT130  A  Water  -20 120 °C  20 °C
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: 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:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C  Oval / Rp  1 1/2 inch  1 1/2 inch  PN 16  FT130  A  Water  -20 120 °C
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: 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:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C  Oval / Rp  1 1/2 inch  1 1/2 inch  PN 16  FT130  A  Water  -20 120 °C  20 °C  998.2 kg/m³
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: 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:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C  Oval / Rp  1 1/2 inch  1 1/2 inch  PN 16  FT130  A  Water  -20 120 °C  20 °C  998.2 kg/m³  IEC
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: 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:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C  Oval / Rp  1 1/2 inch  1 1/2 inch  PN 16  FT130  A  Water  -20 120 °C  20 °C  998.2 kg/m³  IEC  100LC
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: 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:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C  Oval / Rp  1 1/2 inch  1 1/2 inch  PN 16  FT130  A  Water  -20 120 °C  20 °C  998.2 kg/m³  IEC  100LC  IE3
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: 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:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C  Oval / Rp  1 1/2 inch  1 1/2 inch  PN 16  FT130  A  Water  -20 120 °C  20 °C  998.2 kg/m³  IEC  100LC  IE3  3 kW
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: 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:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C  Oval / Rp  1 1/2 inch  1 1/2 inch  PN 16  FT130  A  Water  -20 120 °C  20 °C  998.2 kg/m³  IEC  100LC  IE3  3 kW  3 kW
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: 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: Mains frequency:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C  Oval / Rp  1 1/2 inch  1 1/2 inch  PN 16  FT130  A  Water  -20 120 °C  20 °C  998.2 kg/m³  IEC  100LC  IE3  3 kW  3 kW  50 Hz
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: 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:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C  Oval / Rp  1 1/2 inch  1 1/2 inch  PN 16  FT130  A  Water  -20 120 °C  20 °C  998.2 kg/m³  IEC  100LC  IE3  3 kW  3 kW
Bearing: Installation: Maximum ambient temperature: Maximum operating pressure: Max pressure at stated temp:  Type of connection: 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: Mains frequency:	SIC  60 °C  16 bar  16 bar / 120 °C  16 bar / -20 °C  Oval / Rp  1 1/2 inch  1 1/2 inch  PN 16  FT130  A  Water  -20 120 °C  20 °C  998.2 kg/m³  IEC  100LC  IE3  3 kW  3 kW  50 Hz  3 x 220-240D/380-415Y







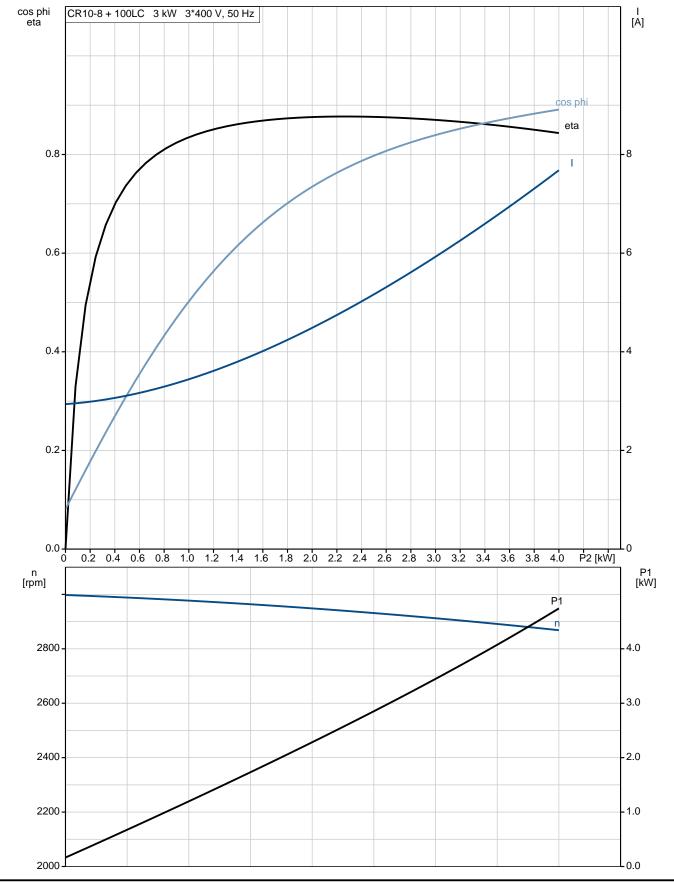


Description	Value
Cos phi - power factor:	0.87-0.82
Rated speed:	2900-2920 rpm
Efficiency:	IE3 87,1%
Motor efficiency at full load:	87.1 %
Motor efficiency at 3/4 load:	88.0 %
Motor efficiency at 1/2 load:	87.7 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTC
Motor No:	85U05510
Controls:	
Frequency converter:	NONE
Others:	
Minimum efficiency index, MEI ≥:	0.70
Net weight:	57 kg
Gross weight:	61 kg
Shipping volume:	0.13 m <sup>3</sup>
Danish VVS No.:	385903080



**Date:** 16/02/2019

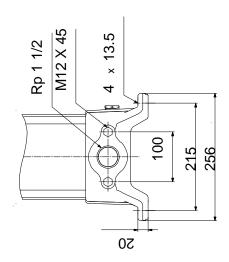
# 96500986 CR 10-8 A-A-A-E-HQQE 50 Hz

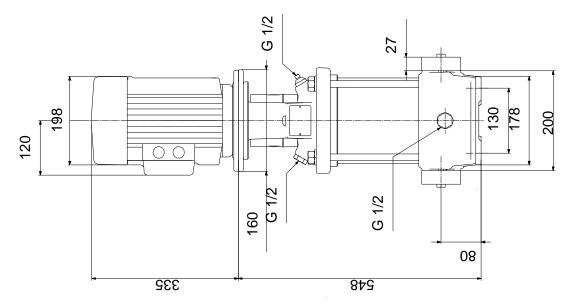




Date: 16/02/2019

# 96500986 CR 10-8 A-A-A-E-HQQE 50 Hz





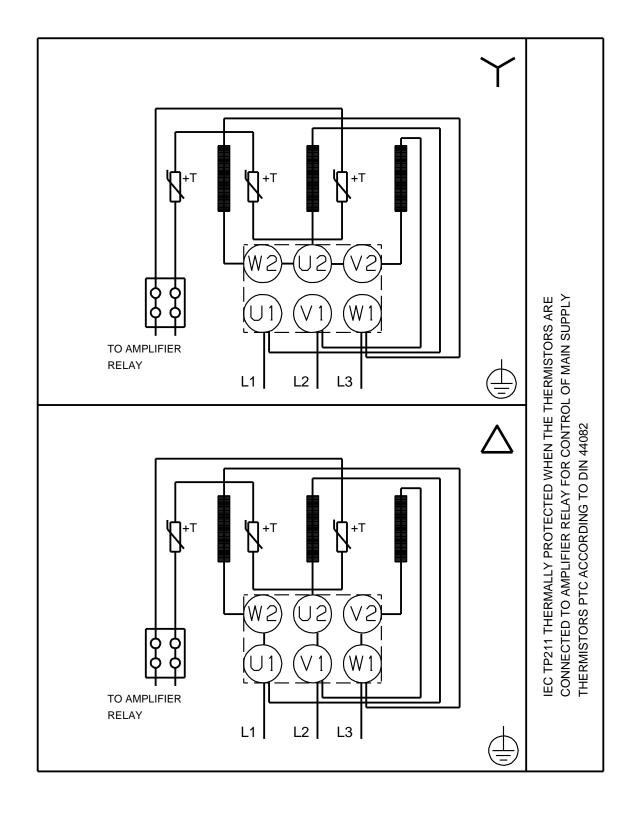
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date:

16/02/2019

## 96500986 CR 10-8 A-A-A-E-HQQE 50 Hz



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

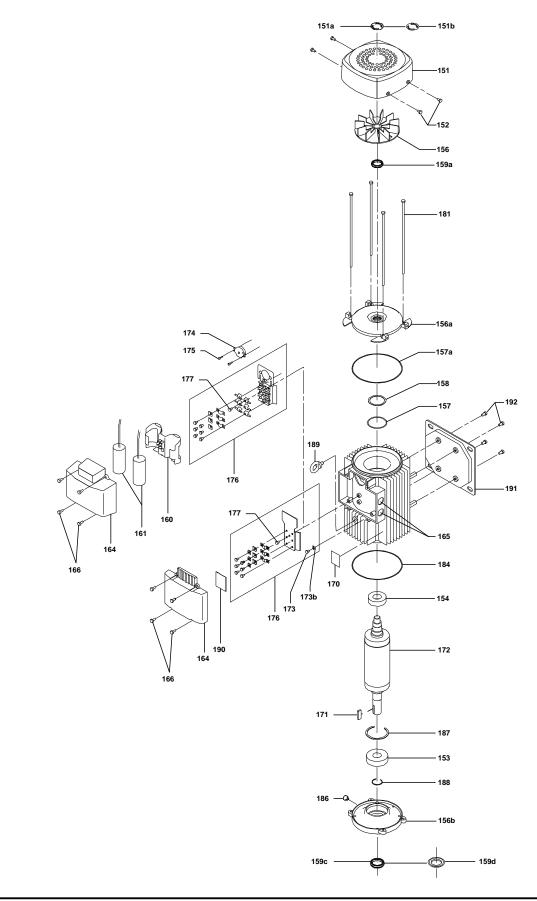


Date: 16/02/2019 (tm069460 for MECR 10 standard) 105 62 -28a --65 45 26c 26b



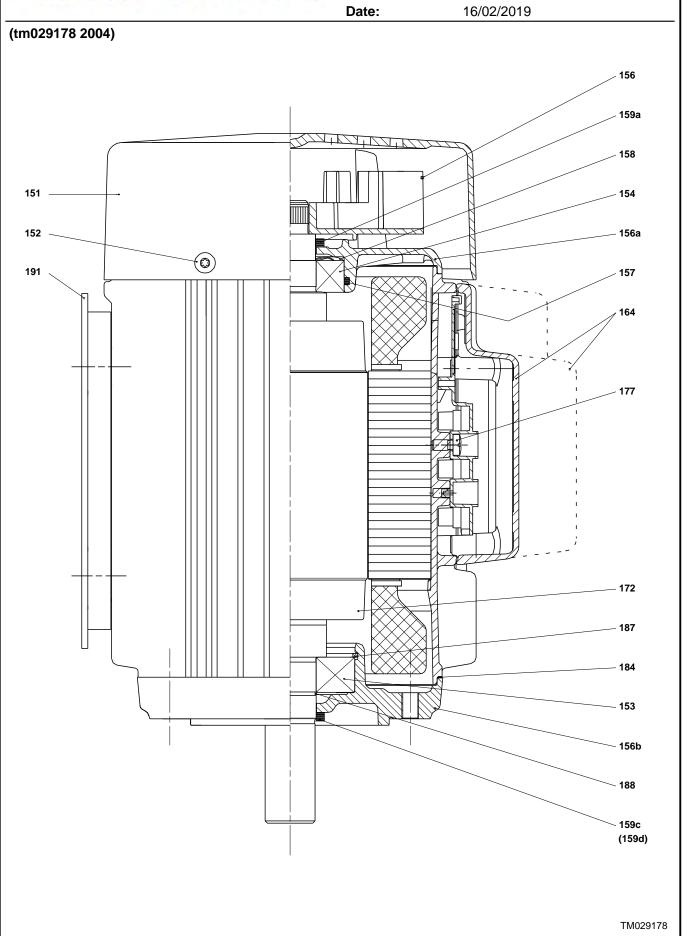
**Date:** 16/02/2019

(tm029184 0505)



TM029184







**Date:** 16/02/2019

# Spare parts CR 10-8, Product No. 96500986 Valid from 1.1.2011 (1152)

	Pos	Description	Annotation	Classification Data	Part no.		Unit
-		Kit, chamber stack			96508410	1	pcs
-	80	Chamber stack		Bearing type: SIC			1
-	3	Top intermediate chamber					
		Spare, turbulence optimizer KP					
		Guide vane					
-	4a	Intermediate chamber cpl.					
		Guide cup					
		Bearing plate					
		Guide vane					
	3	Intermediate chamber					
	45	Neck ring cpl.					
	47	Bearing bush					
	65	Retainer					
-	4	Intermediate chamber cpl.					
		Guide cup					
		Guide vane					
	3	Intermediate chamber					
	45	Neck ring cpl.					
	65	Retainer					
	26a	Strap cpl.					
	26.c	Washer		Designation: DIN 125A			
	20.0	VVdorioi		Thickness: 1,6			
	26.b	Hex head screw		1111CK11C33. 1,0			
	44b	Inlet part					
-	44a	Inlet part cpl.					
F	44a	Guide cup					
	45	Inlet part Neck ring cpl.					
	65	Retainer					
	47	Bearing ring					
	49	Impeller cpl.					
-	51	Shaft, spline, cpl.					
		Bar					
	62	Stop ring					
	64c	Spacing pipe		Length (mm): 12.7			
	64a	Spacing bush		Length (mm): 9.00			
	64.d	Spacer					
	64	Spacing pipe		Length (mm): 29.05			
	66	Wedge lock washer					
	67	Lock nut		Thread: M8			
	69	Spacing bush		Length (mm): 18.00			
-		Kit, coupling			96511350		pcs
		Adjusting fork					1
	9	Hex socket head cap screw		Designation: DIN 912		4	4
				Length (mm): 25			
				Thread: M8			
	10a	Coupling half				2	
	10	Shaft pin		Diameter: 5		•	1
				Length (mm): 26			
-		Kit, coupling guard			96509612	1	pcs
	7.a	Combi Slot Torx screw					4
	7	Coupling guard				2	2
1_		Kit, gaskets			96509609	1	pcs



Pos	<b>Description</b> Gasket	Annotation Classification Data Part	. 110 પ્રા	y. Uı
24				2
24	O-ring			2
37	O-ring			2
38a	O-ring	Diameter: 5,3		1
		Material type: EPDM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		1
		Material type: EPDM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		2
50	O-IIIIg	Material type: EPDM		
•		Thickness: 2,4		
60	Spring			4
415	Gasket			2
441b	Gasket	Internal diameter: 49		2
		Outer diameter: 92		
		Thickness: 2		
	Kit, plug		11311 1	рс
18	Air vent screw			1
. •	Spindle			•
	Plug			
05				
25a	Drain plug			1
25	Plug			1
38a	O-ring	Diameter: 5,3		1
		Material type: FKM		
		Thickness: 2,4		
38a	O-ring	Diameter: 5,3		1
	- <b>J</b>	Material type: EPDM		-
		Thickness: 2,4		
20	O vin v			4
38	O-ring	Diameter: 16,3		1
		Material type: FKM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		2
		Material type: FKM		
		Thickness: 2,4		
38	O-ring	Diameter: 16,3		1
	- <b>J</b>	Material type: EPDM		-
		Thickness: 2,4		
20	O ring			2
38	O-ring	Diameter: 16,3		2
		Material type: EPDM		
		Thickness: 2,4		
	Kit, shaft seal HQQE	965	11844 1	po
	Emery cloth			1
	Grinding device			1
105	Shaft seal	Material type: HQQE		1
	Kit, wear parts		11889 1	po
4a	Intermediate chamber cpl.	300		1
<del>-</del> 14				1
	Sand Lifter			
	Guide cup			
	Bearing plate			
	Guide vane			
3	Intermediate chamber			
45	Neck ring cpl.			
47	Bearing bush			
65	Retainer			
		Designation: DIM 405A		_
26.c	Washer	Designation: DIN 125A		2
		Thickness: 1,6		
26.b	Hex head screw			2
	Neck ring cpl.			7



Pos 47	Description  Rearing ring	Annotation Classification Data Part no. Qty	<u>′. Uı</u> ₁
	Bearing ring		1
62	Retaining ring		1
64c	Spacing pipe	Length (mm): 12.7	1
64a	Spacing bush	Length (mm): 9.00	1
64.d	Spacer		1
65	Retainer		7
66	Wedge lock washer		1
67	Lock nut	Thread: M8	1
01	Motor	85903730 1	
			po
	Kit, Ball bearing	96279795	1
99a	Retaining ring		
99	Retaining ring		
111	Ball bearing		
111	Ball bearing		
157	O-ring	Diameter: 52	
	- 3	Material type: NBR	
		Thickness: 3	
158	Waved washer	THIOMICOO. U	
108		00070001	
	Kit, end shield	96279831	1
156a	End shield		
157	O-ring	Diameter: 52	
		Material type: NBR	
		Thickness: 3	
158	Waved washer		
159a	Seal ring		
1000		06070757	1
450	Kit, fan	96279757	1
156	Fan		
159a	Seal ring		
	Kit, fan cover	96279826	1
151b	Label		
151	Fan cover		
152	Pan head thread forming screw		
	Kit, flange	96279828	1
156b		9021 9020	'
	Flange		
156.c	Drain plug		
159.c	Seal ring		
	Kit, retaining ring	96279799	1
99	Retaining ring		
188	Retaining ring		
	Kit, shaft seal	96279762	1
159c	Seal ring	00270702	•
	Seal ring Seal ring		
159a		***	_
	Kit, staybolts	96279832	1
181	Pan head staybolt		
	Kit, terminal board	96279769	1
173a	Base		
173	Pan head thread forming screw	Designation: COMBI TORX T25	
176	Slot cheese head screw	Designation: COMBI TORX T25	
	2.2. 22.2/344 30.0	Length (mm): 10	
		Thread: M5	
170	Torminal	THEAU. IVID	
176	Terminal		
176	Connecting piece		
176	Wire clamp		
176	Terminal board		
177	Pan head screw		
	Kit, terminal box	96279771	1
164		30213111	•
	Terminal box cover w/gasket		
166	Pan head thread forming screw		
2a	Pump head	98785091 1	pc



Pos	Description	Annotation Classification Data	Part no.	Qty	. Unit
+ 3	Bulk, Top intermediate chamber (3 pcs)		96538970	1	pcs
+ 3	Top intermediate chamber		98415149	1	pcs
+ 4a	Bulk, Intermediate chamber cpl. (10 pcs)		96538850	1	pcs
+ 4a	Intermediate chamber cpl.		98371073	1	pcs
- 4	Intermediate chamber cpl.		98371071	6	pcs
3	Intermediate chamber		984151	45	•
65	Bulk, Retainer (20 pcs)		983546		
6	Base		98818812		pcs
7.a	Bulk, Combi Slot Torx screw (1000 pcs)		96886324		pcs
10	Bulk, Shaft pin (10 pcs)	Diameter: 5	96536473		pcs
10	Baik, Griati piri (10 poo)	Length (mm): 26	00000470	•	poo
+ 18	Bulk, Air vent screw (5 pcs)	Longar (mm). 20	96547461	1	pcs
+ 18	Air vent screw		95061351		pcs
25	Bulk, Plug (10 pcs)		96536013		pcs
25a			96535881		
					pcs
26a	• •	Desire etiene DIN 4054	98984429		pcs
26.0	Bulk, Washer (4 pcs)	Designation: DIN 125A	99262704	2	pcs
	NA/aalaa	Thickness: 1,6	0050000	_	
26.0	C Washer	Designation: DIN 125A	96586880	2	pcs
	Otanikali	Thickness: 1,6	0000001=	_	
26	Staybolt		98982846		pcs
28	Bulk, Hex head screw (4 pcs)	Length (mm): 25	99335941	4	pcs
		Thread: M8			
28	Bulk, Hex head screw (20 pcs)	Length (mm): 45 MM	96620474	4	pcs
		Thread: M12			
32	Bulk, Washer (100 pcs)	Designation: DIN 125 A	98923051	4	pcs
		Internal diameter: 17			
		Outer diameter: 30			
		Thickness: 3			
36	Bulk, Hex nut (20 pcs)	Thread: M16	96620480		pcs
37	Bulk, O-ring (20 pcs)		96538857		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	·		98814595	1	pcs
+ 44a	• •		97973678		pcs
47	Bulk, Bearing ring (10 pcs)		96538795	1	pcs
49	Bulk, Impeller cpl. (10 pcs)		96538796	8	pcs
49	Impeller cpl.		98394441	8	pcs
+ 51	Shaft, spline, cpl.		98368612	1	pcs
60	Bulk, Spring (20 pcs)		96538963	4	pcs
64c		Length (mm): 12.7	97980241	1	pcs
64a		Length (mm): 9.00	96538950	1	pcs
64.0	Bulk, Spacer (20 pcs)	·	97516851	1	pcs
64	Bulk, Spacing pipe (20 pcs)	Length (mm): 29.05	96535101		pcs
66	Bulk, Wedge lock washer (10 pcs)		96536157	1	pcs
67	Bulk, Lock nut (10 pcs)	Thread: M8		1	pcs
69	Bulk, Spacing bush (20 pcs)	Length (mm): 18.00	96538948		pcs
76a		2 0 ( 1)	96620489		pcs
105		Material type: HQQE	96538914		pcs
415			96536048		pcs
415			99364495		pcs
	Cachot				P03



Pos	Description	Annotation	Classification Data	Part no.	Qty.	Unit
440a	Flange		Thread: RP 1 1/2	99037027	2	pcs