

Inventflow: Grundfos A-partner

Grundfos CRE 10-5 N-A-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/cre/grundfos-cre-10-5-n-a-a-e-hqqe>

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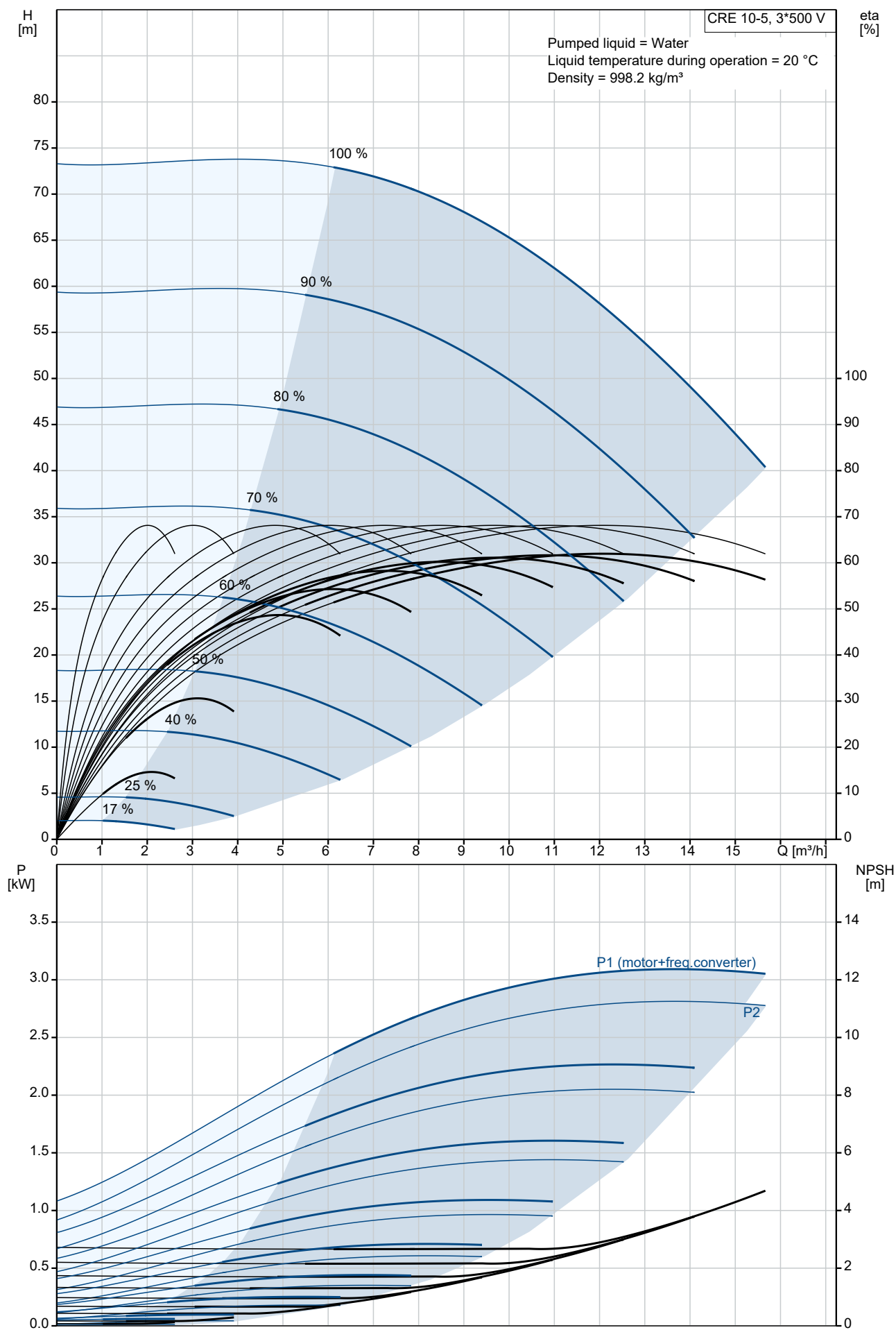
Datasheet



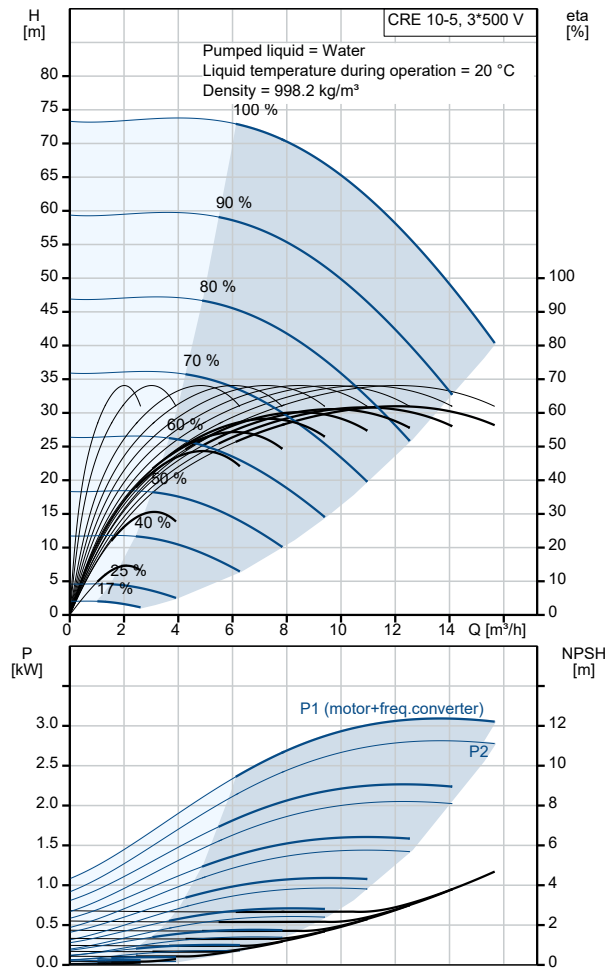
Qty.	Description
1	CRE 10-5 N-A-A-E-HQQE  Product No.: 99071457 Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation. The pump has the following characteristics: - Impellers and intermediate chambers are made of - Impeller: Stainless steel DIN W.-Nr. EN 1.4301. - Pump housing: - Pump head and base are made of Cast iron. - The shaft seal has assembly length according to EN 12756. - Power transmission is via cast iron split coupling. Flange standard: - Pipework connection is via Oval / Rp flanges. The pump is fitted with an IEC-flanged three-phase MGE motor with frequency converter and PI-controller integrated in the motor terminal box. No additional motor protection is required as both motor and electronics are protected by integrated overload and temperature protection. The pump is equipped with a pressure transmitter registering pump discharge pressure and enabling controlled pump operation based on constant pressure. A control panel enables setting of required setpoint as well as setting of pump to MIN or MAX operation or to STOP. The control panel has indicator lights for "Operation" and "Fault". Communication with the pump is possible by means of Grundfos R100 Remote Control enabling further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption". The terminal box holds terminals for the connection of: - Pump start/stop (potential-free contact), - external remote setpoint setting via analog signal, 0 - 5 V, 0 - 10 V, 0(4) - 20 mA, - 5 V voltage supply for setpoint potentiometer, I_{max} = 5 mA, - pressure sensor factory-fitted. - input for forced control to MIN or MAX (potential-free contact), - potential-free fault signal relay with changeover contact, reporting Fault, Operation or Ready, - RS485 GENibus. Controls: Frequency converter: Built-in

Qty.	Description
	Pressure sensor: Y Liquid: Pumped liquid: Water Liquid temperature range: -20 .. 120 °C Selected liquid temperature: 20 °C Density: 998.2 kg/m³ Technical: Pump speed on which pump data are based: 3514 rpm Rated flow: 12.1 m³/h Rated head: 58.5 m Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQE Approvals on nameplate: CE,EAC,UKCA,WRAS,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: 50 °C Maximum operating pressure: 16 bar Max pressure at stated temp: 16 bar / 120 °C 16 bar / -20 °C Type of connection: Oval / Rp Size of inlet connection: 1 1/2 inch Size of outlet connection: 1 1/2 inch Pressure rating for connection: PN 16 Flange size for motor: FT130 Electrical data: Motor standard: IEC Motor type: 100LA IE Efficiency class: IE5 Rated power - P2: 3 kW Power (P2) required by pump: 3 kW Mains frequency: 50 / 60 Hz Rated voltage: 3 x 380-500 V Rated current: 5.80-4.80 A Cos phi - power factor: 0.91-0.86 Rated speed: 360-4000 rpm Efficiency: 90.7% Motor efficiency at full load: 90.7 % Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F Motor No: 98971049 Others: Minimum efficiency index, MEI ≥: 0.70 DOE Pump Energy Index CL: 0.00 DOE Pump Energy Index VL: 0.00 Net weight: 54 kg Gross weight: 76 kg Shipping volume: 0.234 m³ Country of origin: DK Custom tariff no.: 84137075

99071457 CRE 10-5 N-A-A-E-HQQE

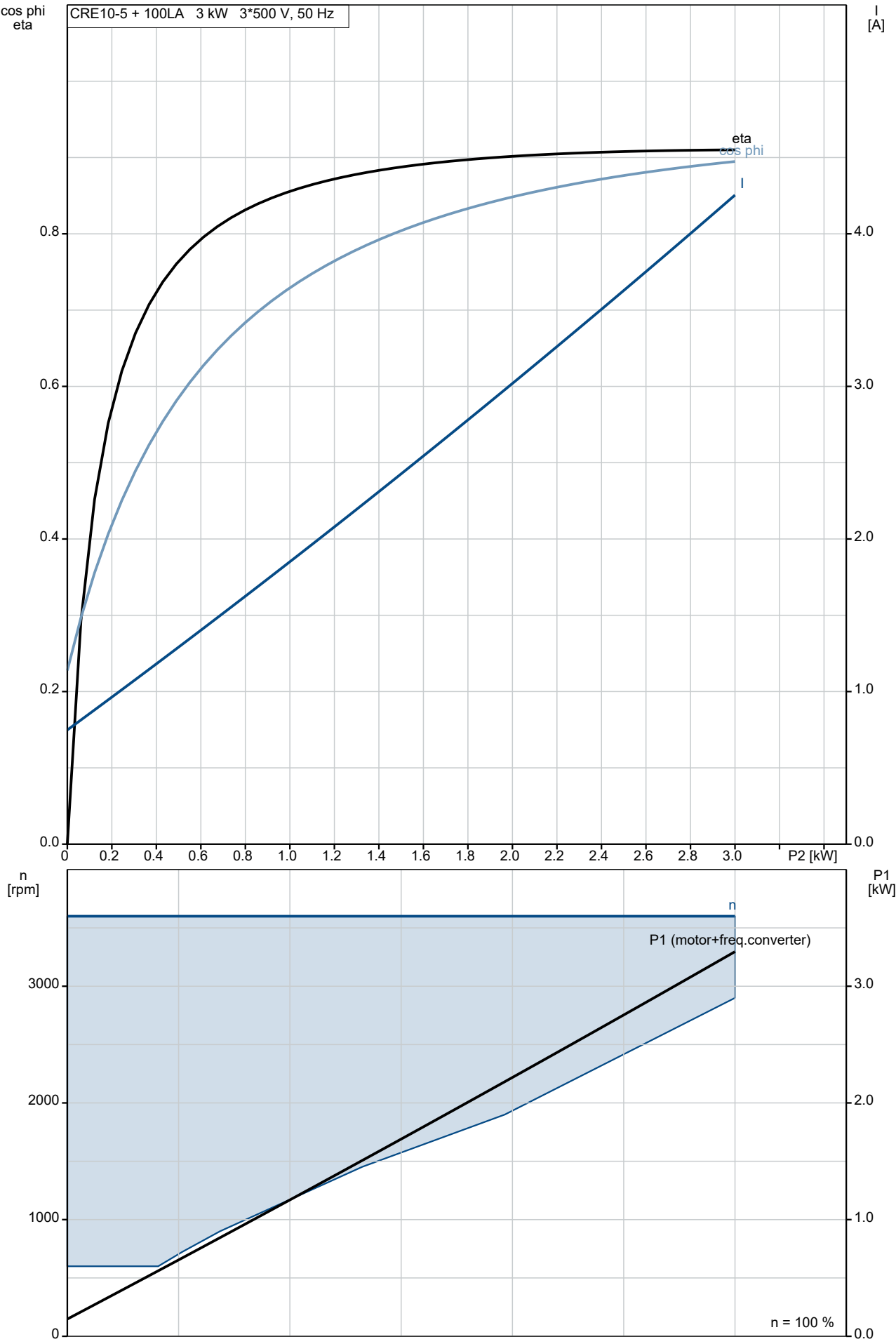


Description	Value
General information:	
Product name:	CRE 10-5 N-A-A-E-HQQE
Product No:	99071457
EAN number:	5712606191703
Technical:	
Pump speed on which pump data are based:	3514 rpm
Rated flow:	12.1 m³/h
Rated head:	58.5 m
Maximum head:	73.8 m
Stages:	5
Impellers:	5
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals on nameplate:	CE,EAC,UKCA,WRAS,A CS
Curve tolerance:	ISO9906:2012 3B
Pump version:	N
Model:	A
Materials:	
Base:	Cast iron
Base:	EN 1561 EN-GJL-200
Base:	ASTM A48-25B
Impeller:	Stainless steel
Impeller:	EN 1.4301
Impeller:	AISI 304
Material code:	A
Code for rubber:	E
Bearing:	SIC
Installation:	
Maximum ambient temperature:	50 °C
Maximum operating pressure:	16 bar
Max pressure at stated temp:	16 bar / 120 °C
Max pressure at stated temp:	16 bar / -20 °C
Type of connection:	Oval / Rp
Size of inlet connection:	1 1/2 inch
Size of outlet connection:	1 1/2 inch
Pressure rating for connection:	PN 16
Flange size for motor:	FT130
Connect code:	A
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-20 .. 120 °C
Selected liquid temperature:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor standard:	IEC
Motor type:	100LA
IE Efficiency class:	IE5
Rated power - P2:	3 kW
Power (P2) required by pump:	3 kW
Mains frequency:	50 / 60 Hz
Rated voltage:	3 x 380-500 V
Rated current:	5.80-4.80 A
Cos phi - power factor:	0.91-0.86
Rated speed:	360-4000 rpm
Efficiency:	90.7%
Motor efficiency at full load:	90.7 %
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Motor protec:	ELEC

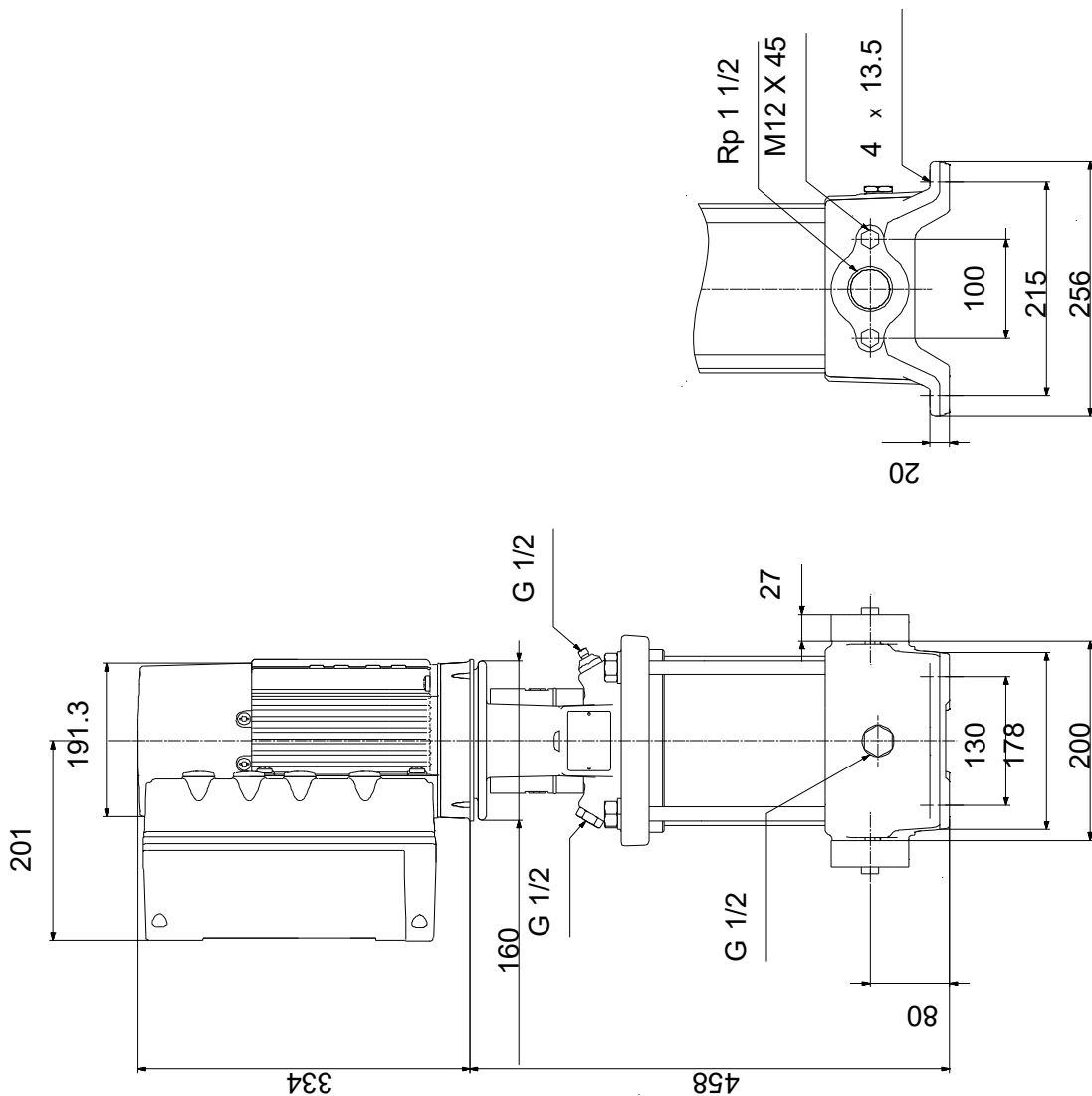


Description	Value
Motor No:	98971049
Controls:	
Control panel:	Standard
Function Module:	FM300 - Advanced
Frequency converter:	Built-in
Pressure sensor:	Y
Others:	
Minimum efficiency index, MEI ≥:	0.70
DOE Pump Energy Index CL:	0.00
DOE Pump Energy Index VL:	0.00
Net weight:	54 kg
Gross weight:	76 kg
Shipping volume:	0.234 m ³
Config. file no:	99058943
Country of origin:	DK
Custom tariff no.:	84137075

99071457 CRE 10-5 N-A-A-E-HQQE



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

Spare parts CRE 10-5, Product No. 99071457
Produced After 1633 (production year and week number)

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, chamber stack			96508407	1	pcs
- 80	Chamber stack		Bearing type: SIC		1	
- 3	Top intermediate chamber				1	
	Spare, turbulence optimizer KP					
	Guide vane					
- 4a	Intermediate chamber cpl.				1	
	Guide cup					
	Bearing plate					
	Guide vane					
3	Intermediate chamber					
45	Neck ring cpl.					
47	Bearing bush					
65	Retainer					
- 4	Intermediate chamber cpl.				3	
	Sand Lifter					
	Guide cup					
	Front plate					
	Guide vane					
3	Intermediate chamber					
45	Neck ring cpl.					
65	Retainer					
26a	Strap cpl.				2	
26.c	Washer		Designation: DIN 125A		2	
			Thickness: 1,6			
26.b	Hex head screw				2	
44b	Inlet part				1	
- 44a	Inlet part cpl.				1	
	Guide cup					
	Inlet part					
45	Neck ring cpl.					
65	Retainer					
47a	Bearing ring				1	
49	Impeller cpl.				5	
- 51	Shaft, spline, cpl.				1	
	Bar					
62	Stop ring					
64c	Spacer				1	
64a	Spacing bush		Length (mm): 9.00		1	
64.d	Spacer				1	
64	Spacing pipe		Length (mm): 29.05		3	
66	Wedge lock washer				1	
67	Lock nut		Thread: M8		1	
69	Spacing bush		Length (mm): 18.00		1	
-	Kit, coupling			96511350	1	pcs
	Adjusting fork				1	
9	Hex socket head cap screw		Designation: DIN 912		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	
-	Kit, gaskets			96509609	1	pcs
	Gasket				2	
24	O-ring				2	
37	O-ring				2	
38	O-ring				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
38	O-ring				1	
38	O-ring				2	
60	Spring				4	
415	Gasket	Internal diameter: 44			2	
		Outer diameter: 60				
		Thickness: 2				
441b	Gasket	Internal diameter: 49			2	
		Outer diameter: 92				
		Thickness: 2				
-	Kit, plug			96511311	1	pcs
- 18	Air vent screw				1	
	Spindle				1	
	Plug				1	
25a	Drain plug				1	
25	Plug				1	
38	O-ring				1	
38	O-ring				1	
38	O-ring				2	
38	O-ring	Diameter: 5,3			1	
		Material type: FKM				
		Thickness: 2,4				
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				
-	Kit, shaft seal HQQE			96511844	1	pcs
105	Shaft seal	Material type: HQQE			1	
-	Kit, wear parts			96511889	1	pcs
- 4a	Intermediate chamber cpl.				1	
	Sand Lifter				1	
	Guide cup				1	
	Bearing plate				1	
	Guide vane				10	
3	Intermediate chamber				1	
45	Neck ring cpl.				1	
47	Bearing bush				1	
65	Retainer				1	
26.c	Washer	Designation: DIN 125A			2	
		Thickness: 1,6				
26.b	Hex head screw				2	
45	Neck ring cpl.				7	
47a	Bearing ring				1	
62	Retaining ring				1	
64c	Spacer				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	
-	Motor			99879896	1	pcs
-	Kit, Ball bearing			98881508	1	
99	Retaining ring				1	
153	Ball bearing				1	
154	Ball bearing				1	
156d	Seal ring				1	
156c	Seal ring				1	
157	O-ring	Diameter: 52			1	
		Material type: NBR				
		Thickness: 3				
158	Waved washer				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
188	Retaining ring				1	
-	Kit, Blanking plug			99052475	1	
252b	Plug cpl.				4	
252b	Blanking plug				1	
-	Kit, cable gland			98736096	1	
293	Cable glands set				1	
-	Kit, connector plugs			98403113	1	
266	Connector plug 10-pole				1	
266	Connector plug 2-pole				1	
266	Connector plug 8-pole				1	
266	Connector plug 8-pole				1	
266	Connector plug 8-pole				1	
266	Connector plug 3-pole				1	
266	Connector plug 3-pole				1	
266	Connector plug 3-pole				1	
-	Kit, control box			98878612	1	
251d	Pan head thread forming screw				4	
251b	Control box				1	
251a	Control box cpl.				1	
252b	Plug cpl.				4	
252b	Blanking plug				1	
266	Connector plug 10-pole				1	
266	Connector plug 8-pole				1	
266	Connector plug 8-pole				1	
266	Connector plug 8-pole				1	
266	Connector plug 3-pole				1	
266	Connector plug 3-pole				1	
266	Connector plug 3-pole				1	
268a	Base				1	
268	Pan head screw				1	
273b	Battery				1	
273a	Cross recess Pan head screw				3	
273	Funct. Module cpl.				1	
275a	Pin				1	
277b	Spring				4	
277a	Cross recess Pan head screw				1	
277	Cover				1	
286	Spacer				1	
287	Cover				1	
288b	Retaining ring				8	
288a	Pan head thread forming screw				8	
288	Wire clamp				4	
289a	Pan head thread forming screw				1	
289	Wire clamp				1	
290	Control panel, cpl.				1	
301	Jumper				1	
-	Kit, Control box upper			98869865	1	
251d	Pan head thread forming screw				4	
251b	Control box				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
-	Kit, Control panel			98939973	1	
290	Control panel, cpl.				1	
-	Kit, cover			98330622	1	
287	Cover				1	
-	Kit, end shield (NDE)			98869882	1	
156c	Seal ring				1	
156a	End shield NDE				1	
157	O-ring		Diameter: 52 Material type: NBR Thickness: 3		1	
158	Waved washer				1	
206	Pan head thread forming screw				4	
-	Kit, fan			98869876	1	
152	Pan head thread forming screw				4	
156c	Seal ring				1	
156	Fan				1	
-	Kit, fan cover			99957566	1	
151	Fan cover				1	
152	Pan head thread forming screw				4	
-	Kit, flange (DE)			98869888	1	
	Glue				0	
156c	Seal ring				1	
156b	Flange				1	
201c	Drain plug				3	
-	Kit, Funct. module			98334777	1	
273a	Cross recess Pan head screw				5	
273	Funct. Module cpl.				1	
275a	Pin				1	
286	Spacer				1	
-	Kit, Isolation cover			98859508	1	
277b	Spring				4	
277a	Cross recess Pan head screw				1	
277	Cover				1	
-	Kit, Lower part cpl.			98859571	1	
178	Pan head thread forming screw				4	
251a	Control box cpl.				1	
275a	Pin				1	
277a	Cross recess Pan head screw				1	
277	Cover				1	
-	Kit, motor			99010735	1	
	Glue				0	
	Terminal				3	
99a	Retaining ring				1	
99	Retaining ring				1	
111	Ball bearing				1	
111	Ball bearing				1	
150	Stator w/housing				1	
151	Fan cover				1	
152	Pan head thread forming screw				4	
156d	Gasket				1	
156c	Seal ring				1	

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
156c	Seal ring				1	
156b	Flange				1	
156a	End shield NDE				1	
156	Fan				1	
157	O-ring		Diameter: 52		1	
			Material type: NBR			
			Thickness: 3			
158	Waved washer				1	
172	Shaft w/rotor				1	
181	Pan head staybolt				4	
186	Drain plug				3	
190	Eyebolt				2	
203	Terminal plug				1	
289a	Pan head thread forming screw				2	
-	Kit, plug			99028676	1	
152	Pan head thread forming screw				2	
203	Terminal plug				1	
205	Gasket				1	
-	Kit, screws			99028712	1	
268a	Base				1	
268	Pan head screw				1	
288b	Retaining ring				8	
288a	Pan head thread forming screw				8	
288	Wire clamp				4	
289a	Pan head thread forming screw				1	
289	Wire clamp				1	
-	Kit, staybolts			98881544	1	
181	Pan head staybolt				4	
111	Ball bearing			99083449	1	
111	Ball bearing			97501069	1	
152	Pan head thread forming screw			99834207	4	
152	Pan head thread forming screw			99814578	4	
158	Waved washer			99804989	1	
159a	Seal ring			97689816	1	
186	Drain plug			99980519	3	
251d	Pan head thread forming screw			98995460	4	
266	Connector plug 3-pole			99421265	1	
2a	Pump head			98785091	1	pcs
+ 3	Top intermediate chamber			96538970	1	pcs
+ 3	Top intermediate chamber			98415149	1	pcs
+ 4a	Intermediate chamber cpl.			96538850	1	pcs
+ 4a	Intermediate chamber cpl.			98371073	1	pcs
- 4	Intermediate chamber cpl.			96538818	3	pcs
3	Intermediate chamber			96536045	1	
3	Intermediate chamber			98415145	1	
45	Neck ring cpl.			96538856	1	
65	Retainer			98354675	1	
+ 4	Intermediate chamber cpl.			98371071	3	pcs
6	Base			98818812	1	pcs
7.a	Combi Slot Torx screw			96886324	4	pcs
10	Shaft pin		Diameter: 5	96536473	1	pcs
			Length (mm): 26			
10	Shaft pin		Diameter: 5	96587588	1	pcs
			Length (mm): 26			
+ 18	Air vent screw			96547461	1	pcs
+ 18	Air vent screw			95061351	1	pcs

Pos	Omschrijving	Opmerking tekst	Classificatie Gegevens	Onderdeelnr.	Aantal	Eenheid
25	Plug			96536013	1	pcs
25a	Drain plug			96535881	1	pcs
26a	Strap cpl.			98984428	2	pcs
26.c	Washer		Designation: DIN 125A	99262704	2	pcs
			Thickness: 1,6			
26.c	Washer		Designation: DIN 125A	99886930	2	pcs
			Thickness: 1,6			
26	Staybolt			98982841	4	pcs
28	Hex head screw		Length (mm): 25	99335941	4	pcs
			Thread: M8			
28	Hex head screw		Length (mm): 45 MM	96620474	4	pcs
			Thread: M12			
32	Washer		Designation: DIN 125 A	98923051	4	pcs
			Internal diameter: 17			
			Outer diameter: 30			
			Thickness: 3			
36	Hex nut		Thread: M16	96620480	4	pcs
37	O-ring			96538857	2	pcs
38	O-ring			99198791	1	pcs
38	O-ring			99198815	2	pcs
38	O-ring			99412727	2	pcs
44b	Inlet part			98814595	1	pcs
+ 44a	Inlet part cpl.			97973678	1	pcs
47a	Bearing ring			96538795	1	pcs
49	Impeller cpl.			96538796	5	pcs
49	Impeller cpl.			98394441	5	pcs
+ 51	Shaft, spline, cpl.			98368608	1	pcs
55	Outer sleeve			98812622	1	pcs
60	Spring			96538963	4	pcs
64c	Spacer			97980241	1	pcs
64a	Spacing bush		Length (mm): 9.00	96538950	1	pcs
64.d	Spacer			97516851	1	pcs
64	Spacing pipe		Length (mm): 29.05	96535101	3	pcs
66	Wedge lock washer			96536157	1	pcs
66	Wedge lock washer			92575609	1	pcs
67	Lock nut		Thread: M8	98277008	1	pcs
69	Spacing bush		Length (mm): 18.00	96538948	1	pcs
76a	Rivet			96620489	2	pcs
105	Shaft seal		Material type: HQQE	96538914	1	pcs
441b	Gasket			96535072	2	pcs