

**Date:** 16/02/2019

Qty. | Description

1 | CRN 10-4 A-P-A-E-HQQE



Product No.: 96501043

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**

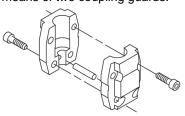
Steel, cast iron and aluminium components have an epoxy-based coating made in a cathodic electro-deposition (CED) process. CED is a high-quality dip-painting process where an electrical field around the products ensures deposition of paint particles as a thin, well-controlled layer on the surface. An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

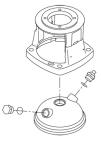
The colour code for the finished product is NCS 9000/RAL 9005.

### **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)

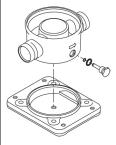
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.



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 does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I1/1).

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

Technical:



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### Qty. | Description

Pump speed on which pump data are based: 2896 rpm

Rated flow: 10 m³/h
Rated head: 31.9 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

Impeller: Stainless steel

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: PJE
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: FT115

**Electrical data:** 

Motor standard: IEC
Motor type: 90SB
IE Efficiency class: IE3
Rated power - P2: 1.5 kW
Power (P2) required by pump: 1.5 kW
Mains frequency: 50 Hz

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

Rated current: 5.45/3.15 A Starting current: 850-930 % Cos phi - power factor: 0.87-0.82 Rated speed: 2890-2910 rpm Efficiency: IE3 84,2% Motor efficiency at full load: 84.2 % Motor efficiency at 3/4 load: 84.5 % Motor efficiency at 1/2 load: 83.1 %

Number of poles: 2

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

Insulation class (IEC 85): F

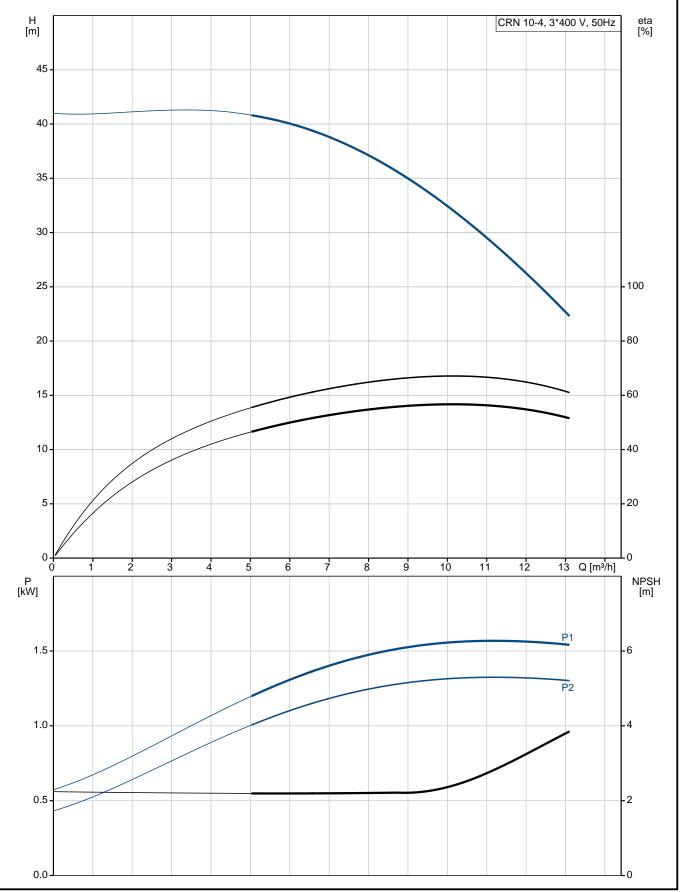
Others:

Minimum efficiency index, MEI ≥: 0.70
Net weight: 43 kg
Gross weight: 47 kg
Shipping volume: 0.094 m³
Danish VVS No.: 385913040
Norwegian NRF no.: 9040484



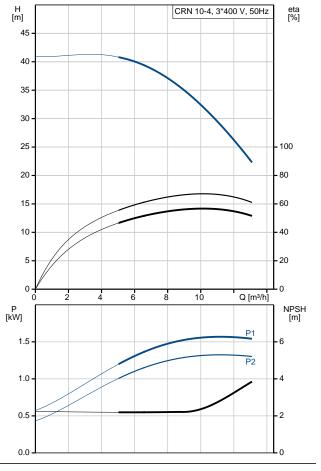
**Date:** 16/02/2019

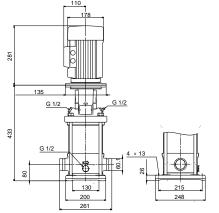
## 96501043 CRN 10-4 A-P-A-E-HQQE 50 Hz

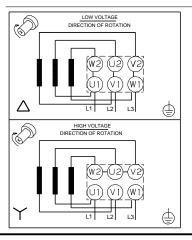




| Description                              | Value                    |
|--|--------------------------|
| General information:                     |                          |
| Product name:                            | CRN 10-4<br>A-P-A-E-HQQE |
| Product No:                              | 96501043                 |
| EAN number:                              | 5700396214214            |
| Technical:                               |                          |
| Pump speed on which pump data are based: | 2896 rpm                 |
| Rated flow:                              | 10 m³/h                  |
| Rated head:                              | 31.9 m                   |
| Head max:                                | 40.8 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:                               | A                        |
| Base:                                    | Ctainless steel          |
| 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                      |
| 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:                      | PJE                      |
| 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:                   | FT115                    |
| Connect code:                            | Р                        |
| Liquid:                                  |                          |
| Pumped liquid:                           | Water                    |
| Liquid temperature range:                | -20 120 °C               |
| Liquid temperature during operation:     | 20 °C                    |
| Density:                                 | 998.2 kg/m³              |
| Electrical data:                         |                          |
| Motor standard:                          | IEC                      |
| Motor type:                              | 90SB                     |
| IE Efficiency class:                     | IE3                      |
| Rated power - P2:                        | 1.5 kW                   |
| Power (P2) required by pump:             | 1.5 kW                   |
| Mains frequency:                         | 50 Hz                    |
|  | 3 x 220-240D/380-415Y    |
| Rated voltage:                           | V                        |
|  |                          |







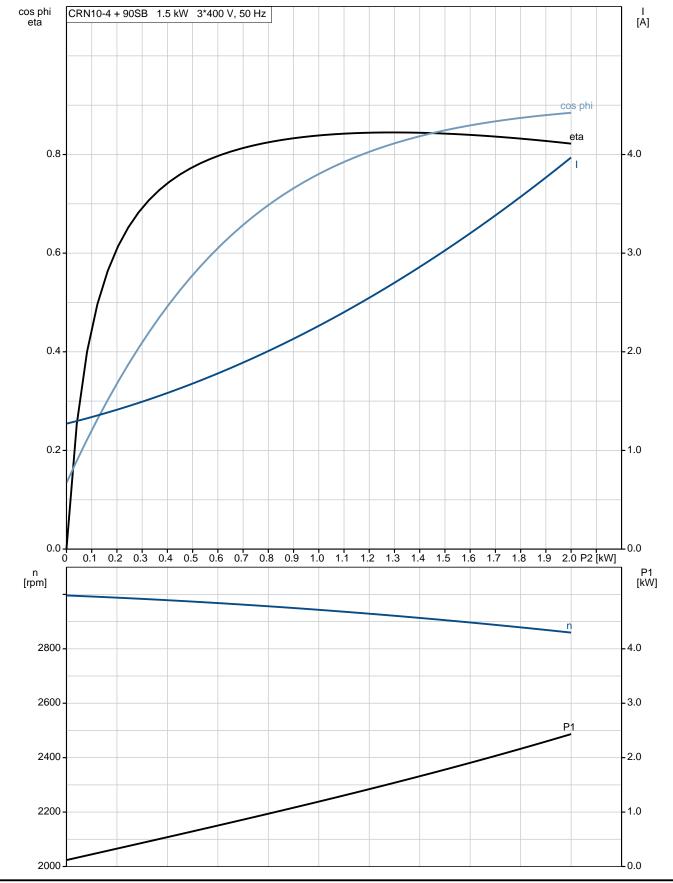


| Description                      | Value           |
|----------------------------------|-----------------|
| Rated current:                   | 5.45/3.15 A     |
| Starting current:                | 850-930 %       |
| Cos phi - power factor:          | 0.87-0.82       |
| Rated speed:                     | 2890-2910 rpm   |
| Efficiency:                      | IE3 84,2%       |
| Motor efficiency at full load:   | 84.2 %          |
| Motor efficiency at 3/4 load:    | 84.5 %          |
| Motor efficiency at 1/2 load:    | 83.1 %          |
| Number of poles:                 | 2               |
| Enclosure class (IEC 34-5):      | 55 Dust/Jetting |
| Insulation class (IEC 85):       | F               |
| Motor protec:                    | NONE            |
| Motor No:                        | 85U05906        |
| Controls:                        |                 |
| Frequency converter:             | NONE            |
| Others:                          |                 |
| Minimum efficiency index, MEI ≥: | 0.70            |
| Net weight:                      | 43 kg           |
| Gross weight:                    | 47 kg           |
| Shipping volume:                 | 0.094 m³        |
| Danish VVS No.:                  | 385913040       |
| Norwegian NRF no.:               | 9040484         |



**Date:** 16/02/2019

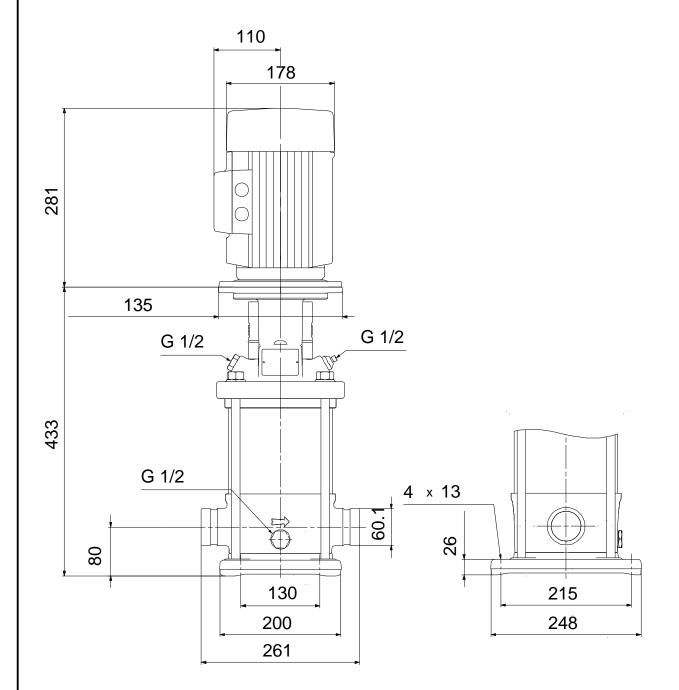
### 96501043 CRN 10-4 A-P-A-E-HQQE 50 Hz





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# 96501043 CRN 10-4 A-P-A-E-HQQE 50 Hz



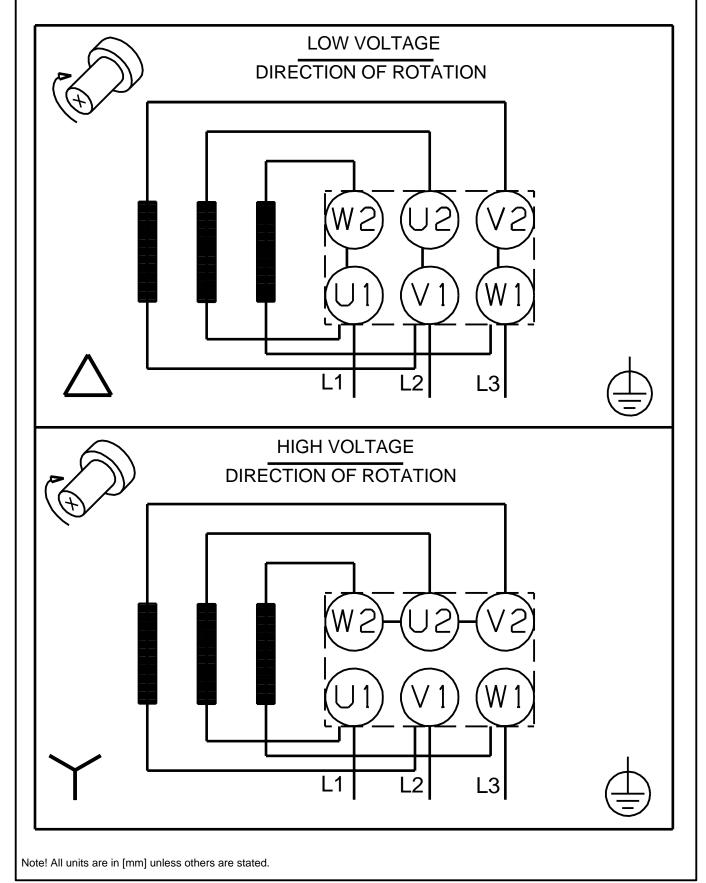
Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.



Date:

16/02/2019

### 96501043 CRN 10-4 A-P-A-E-HQQE 50 Hz



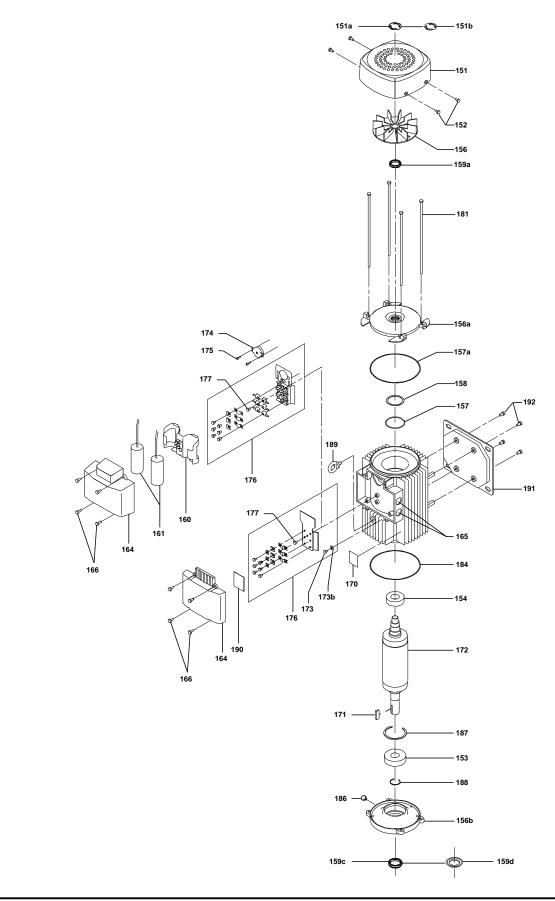


Date: 16/02/2019 (tm069460 for MECR 10 standard) 62 -28a --65 45 25 26c 26b



**Date:** 16/02/2019

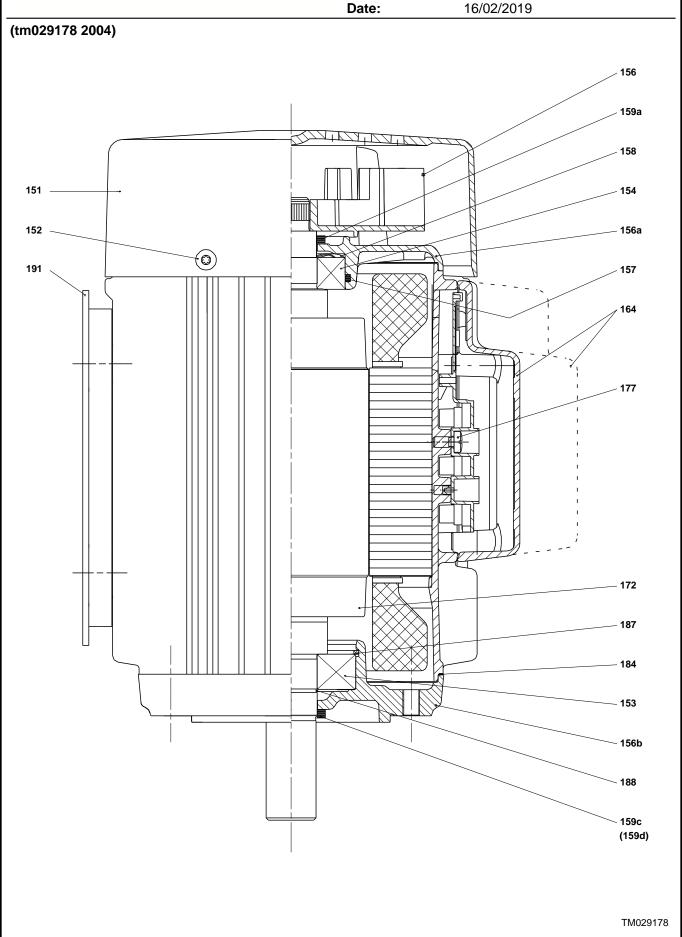
(tm029184 0505)



TM029184



Date:





**Date:** 16/02/2019

# Spare parts CRN 10-4, Product No. 96501043 Valid from 1.1.2011 (1152)

| Pos      | Description  Kit chamber stock | Annotation | Classification Data   | Part no. |   | Uni |
|----------|--------------------------------|------------|-----------------------|----------|---|-----|
| 00       | Kit, chamber stack             |            |                       | 96491723 | 1 | pcs |
| 80       | Chamber stack                  |            |                       |          |   | 1   |
| 3        | Top intermediate chamber       |            |                       |          |   |     |
|          | Guide vane                     |            |                       |          |   |     |
|          | Cover plate                    |            |                       |          |   |     |
| 3        | Top intermediate chamber       |            |                       |          |   |     |
| 4a       | Intermediate chamber cpl.      |            |                       |          |   |     |
|          | Sand Lifter                    |            |                       |          |   |     |
|          | Guide cup                      |            |                       |          |   |     |
|          | Bearing plate                  |            |                       |          |   |     |
|          | Guide vane                     |            |                       |          |   |     |
| 3        | Intermediate chamber           |            |                       |          |   |     |
| 45       | Neck ring cpl.                 |            |                       |          |   |     |
| 47       | Bearing bush                   |            |                       |          |   |     |
| 65       | Retainer                       |            |                       |          |   |     |
| 4        | Intermediate chamber cpl.      |            |                       |          |   |     |
| 3        | Intermediate chamber           |            |                       |          |   |     |
| 45       | Neck ring cpl.                 |            |                       |          |   |     |
| 65       | Retainer                       |            |                       |          |   |     |
| 26a      | Strap cpl.                     |            |                       |          |   |     |
| 26.c     | Washer                         |            | Designation: DIN 125A |          |   |     |
|          |                                |            | Thickness: 1,6        |          |   |     |
| 26.b     | Hex head screw                 |            |                       |          |   |     |
| 44b      | Inlet part                     |            |                       |          |   |     |
| 44a      | Inlet part cpl.                |            |                       |          |   |     |
|          | Inlet part                     |            |                       |          |   |     |
| 45       | Neck ring cpl.                 |            |                       |          |   |     |
| 65       | Retainer                       |            |                       |          |   |     |
| 47       | Bearing ring                   |            |                       |          |   |     |
| 49       | Impeller cpl.                  |            |                       |          |   |     |
| 51       | Shaft, spline, cpl.            |            |                       |          |   |     |
| <u> </u> | Bar                            |            |                       |          |   |     |
| 62       | Stop ring                      |            |                       |          |   |     |
| 64c      | Spacing pipe                   |            | Length (mm): 12.7     |          |   |     |
| 64a      | Spacing bush                   |            | Length (mm): 9.00     |          |   |     |
| 64.d     | Spacer                         |            | Lengur (mm). 5.55     |          |   |     |
| 64       | Spacing pipe                   |            | Length (mm): 29.05    |          |   |     |
| 66       | Wedge lock washer              |            | Lengur (mm). 23.03    |          |   |     |
| 67       | Lock nut                       |            | Thread: M8            |          |   |     |
| 69       | Spacing bush                   |            | Length (mm): 18.00    |          |   |     |
| 09       | Kit, coupling                  |            | Lengui (min). 16.00   | 96511319 | 1 | noc |
|          | Adjusting fork                 |            |                       | 90311319 |   | pcs |
| 0        | Hex socket head cap screw      |            | Designation: DIN 912  |          |   | 1   |
| 9        | nex socket head cap screw      |            | •                     |          |   | 4   |
|          |                                |            | Length (mm): 25       |          |   |     |
| 40-      | Caualian half                  |            | Thread: M8            |          |   | _   |
| 10a      | Coupling half                  |            | Diameter 5            |          |   | 2   |
| 10       | Shaft pin                      |            | Diameter: 5           |          |   | 1   |
|          |                                |            | Length (mm): 26       |          |   |     |
|          | Kit, coupling guard            |            |                       | 96509612 |   | pcs |
| 7.a      | Combi Slot Torx screw          |            |                       |          |   | 4   |
| 7        | Coupling guard                 |            |                       |          |   | 2   |
|          | Kit, gaskets                   |            |                       | 96509609 | 1 | pcs |
|          | Gasket                         |            |                       |          | 2 | 2   |



| Pos  | Description               | Annotation Classification Data | Part no. | Qty | . Un |
|------|---------------------------|--------------------------------|----------|-----|------|
| 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    |
|      |                           | 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                 |                                | 96511312 | 1   | рс   |
| 18   | Air vent screw            |                                |          |     | 1    |
|      | Spindle                   |                                |          |     | -    |
|      | Plug                      |                                |          |     |      |
| 25a  | Drain plug                |                                |          |     | 1    |
| 25a  | Plug                      |                                |          |     | 1    |
| 38a  | O-ring                    | Diameter: 5,3                  |          |     | 1    |
| 30a  | O-IIIIg                   | Material type: FKM             |          |     | '    |
|      |                           | Thickness: 2,4                 |          |     |      |
| 20-  | O win a                   |                                |          |     |      |
| 38a  | O-ring                    | Diameter: 5,3                  |          |     | 1    |
|      |                           | Material type: EPDM            |          |     |      |
| 00   | 0.1                       | 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                 |          |     |      |
| 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                 |          |     |      |
|      | Kit, shaft seal HQQE      |                                | 96511844 | 1   | рс   |
|      | Emery cloth               |                                |          |     | 1    |
|      | Grinding device           |                                |          |     | 1    |
| 105  | Shaft seal                | Material type: HQQE            |          |     | 1    |
|      | Kit, wear parts           | . 71                           | 96511889 | 1   | рс   |
| 4a   | Intermediate chamber cpl. |                                |          |     | 1    |
|      | Sand Lifter               |                                |          |     |      |
|      | Guide cup                 |                                |          |     |      |
|      | Bearing plate             |                                |          |     |      |
|      | Guide vane                |                                |          |     |      |
| 3    | Intermediate chamber      |                                |          |     |      |
| 45   | Neck ring cpl.            |                                |          |     |      |
| 47   | Bearing bush              |                                |          |     |      |
|      |                           |                                |          |     |      |
| 65   | Retainer                  | Design C DIN 4074              |          |     | ^    |
| 26.c | Washer                    | Designation: DIN 125A          |          |     | 2    |
|      |                           | Thickness: 1,6                 |          |     |      |
| 26.b | Hex head screw            |                                |          |     | 2    |
| 45   | Neck ring cpl.            |                                |          |     | 7    |
| 47   | Bearing ring              |                                |          |     | 1    |



| Pos        | Description Patricip and Patric | Annotation Classification Data Part no. Qty | . Uı |
|------------|--|---|------|
| 62         | Retaining ring   | 1 2 4 2 4 5                                 | 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    |
|            | Motor  | 85903713 1                                  | рс   |
|            | Kit, bearing cpl.  | 96279794                                    | 1    |
| 111        | Ball bearing   |   |      |
| 111        | Ball bearing   |   |      |
| 157        | O-ring   | Diameter: 52                                |      |
|            | <u> </u>   | Material type: NBR                          |      |
|            |  | Thickness: 3                                |      |
| 158        | Waved washer   | 1110.010001                                 |      |
| 187        | Retaining ring   |   |      |
| 188        | Retaining ring  Retaining ring   |   |      |
| 100        | Ketaining ring Kit, end shield   | 96279789                                    | 1    |
| 156a       |  | 902/9/89                                    | ı    |
|            | End shield   | laternal " 444 0                            |      |
| 157a       | Gasket   | Internal diameter: 141,2                    |      |
|            |  | Outer diameter: 145,5                       |      |
|            |  | Thickness: 0,2                              |      |
| 157        | O-ring   | Diameter: 52                                |      |
|            |  | Material type: NBR                          |      |
|            |  | Thickness: 3                                |      |
| 158        | Waved washer   |   |      |
| 159a       | Seal ring  |   |      |
|            | Kit, fan   | 96279757                                    | 1    |
| 156        | Fan  |   |      |
| 159a       | Seal ring  |   |      |
|            | Kit, fan cover   | 96279755                                    | 1    |
| 151        | Fan cover  |   |      |
| 152        | Pan head thread forming screw  |   |      |
|            | Kit, flange  | 96279777                                    | 1    |
| 156b       | Flange   | 302.0                                       | •    |
| 159.c      | Seal ring  |   |      |
| 184        | Gasket   | Internal diameter: 141,2                    |      |
| 104        | Casket   | Outer diameter: 145,5                       |      |
|            |  | Thickness: 0,2                              |      |
| 100        | Drain plus   | HIIUNIESS. U,Z                              |      |
| 186        | Drain plug   | 00070700                                    | 1    |
| 407        | Kit, retaining ring  | 96279798                                    | ı    |
| 187        | Retaining ring   |   |      |
| 188        | Retaining ring   | · · · · · · · · · · · · · · · · · · ·       | _    |
|            | Kit, shaft seal  | 96279761                                    | 1    |
| 159c       | Seal ring  |   |      |
| 159a       | Seal ring  |   |      |
|            | Kit, staybolts   | 96279791                                    | 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                 |      |
|            |  | Length (mm): 10                             |      |
|            |  | Thread: M5                                  |      |
|            | Terminal   | -   |      |
| 176        |  |   |      |
| 176<br>176 | Connecting piece   |   |      |
| 176        | Connecting piece Wire clamp  |   |      |
|            | Connecting piece Wire clamp Terminal board   |   |      |



|   | Pos  | Description                            | Annotation | Classification Data                  |            | Unit       |
|---|------|--|------------|--------------------------------------|------------|------------|
| - |      | Kit, terminal box                      |            |                                      | 96279771   | ı          |
|   | 164  | Terminal box cover w/gasket            |            |                                      |            |            |
|   | 166  | Pan head thread forming screw          |            |                                      |            |            |
|   | 1a   | Pump head                              |            |                                      | 98933809 1 | pcs        |
|   | 2    | Pump cover                             |            |                                      | 98481138 1 | pcs        |
| + | 3    | Top intermediate chamber               |            |                                      | 98371084 1 | pcs        |
| + | 4a   | Intermediate chamber cpl.              |            |                                      | 98371088 1 | pcs        |
| - | 4    | Intermediate chamber cpl.              |            |                                      | 98371086 2 | pcs        |
|   | 3    | Intermediate chamber                   |            |                                      | 98371064   | l          |
|   | 6    | Base                                   |            |                                      | 98654159 1 | pcs        |
|   | 7.a  | Bulk, Combi Slot Torx screw (1000 pcs) |            | <u> </u>                             | 96886324 4 | pcs        |
|   | 10   | Bulk, Shaft pin (10 pcs)               |            | Diameter: 5                          | 96536473 1 | pcs        |
|   | 40   | Della Aircont access (5 a ca)          |            | Length (mm): 26                      | 00547404   |            |
| + | 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        |
|   | 26a  | Strap cpl.                             |            | Designation DIN 4054                 | 98952934 2 | pcs        |
|   | 26.c | Bulk, Washer (4 pcs)                   |            | Designation: DIN 125A                | 99262704 2 | pcs        |
|   | 26.0 | Washer                                 |            | Thickness: 1,6                       | 06506000 0 | n 00       |
|   | 26.c | vvasilei                               |            | Designation: DIN 125A Thickness: 1,6 | 96586880 2 | pcs        |
|   | 26   | Staybolt                               |            | THICKHESS. 1,0                       | 98982875 4 | ncc        |
|   | 37.a | Bulk, O-ring (20 pcs)                  |            |                                      | 96538857 1 | pcs        |
|   | 38a  | Bulk, O-ring (10 pcs)                  |            | Diameter: 5,3                        | 99198791 1 | pcs<br>pcs |
|   | Joa  | Buik, O-IIIIg (10 pcs)                 |            | Material type: EPDM                  | 99190791 1 | pcs        |
|   |      |  |            | Thickness: 2,4                       |            |            |
|   | 38   | Bulk, O-ring (10 pcs)                  |            | Diameter: 16,3                       | 99198815 2 | pcs        |
|   |      | Jami, Jamie (10 poo)                   |            | Material type: EPDM                  | 00.000.0 _ | Poo        |
|   |      |  |            | 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.                        |            |                                      | 98890953 1 | pcs        |
|   | 47   | Bulk, Bearing ring (10 pcs)            |            |                                      | 96538795 1 | pcs        |
|   | 49   | Impeller cpl.                          |            |                                      | 98459841 4 | pcs        |
| + | 51   | Shaft, spline, cpl.                    |            |                                      | 98368627 1 | pcs        |
|   | 55   | Outer sleeve                           |            |                                      | 98812633 1 | pcs        |
|   | 56   | Base plate                             |            |                                      | 98824711 1 | pcs        |
|   | 60   | Bulk, Spring (20 pcs)                  |            |                                      | 96538963 4 | pcs        |
|   | 64c  | Bulk, Spacing pipe (5 pcs)             |            | Length (mm): 12.7                    | 97980241 1 | pcs        |
|   | 64a  | Bulk, Spacing bush (20 pcs)            |            | Length (mm): 9.00                    | 96538950 1 | pcs        |
|   | 64.d | Bulk, Spacer (20 pcs)                  |            |                                      | 97516851 1 | pcs        |
|   | 64   | Bulk, Spacing pipe (20 pcs)            |            | Length (mm): 29.05                   | 96535101 2 | pcs        |
|   | 66   | Bulk, Wedge lock washer (10 pcs)       |            |                                      | 96536157 1 | pcs        |
|   | 67   | Bulk, Lock nut (10 pcs)                |            | Thread: M8                           | 98277008 1 | pcs        |
|   | 69   | Bulk, Spacing bush (20 pcs)            |            | Length (mm): 18.00                   | 96538948 1 | pcs        |
|   | 76a  | Bulk, Rivet (100 pcs)                  |            |                                      | 96620489 2 | pcs        |
|   | 105  | Bulk, Shaft seal (11 pcs)              |            | Material type: HQQE                  | 96538914 1 | pcs        |