

## Inventflow: Grundfos A-partner

### Grundfos CR 64-6-1 A-F-A-E-HQQE

Find the pump here:

<https://inventflow.nl/en/pompenfilter/cr/grundfos-cr-64-6-1-a-f-a-e-hqqe>

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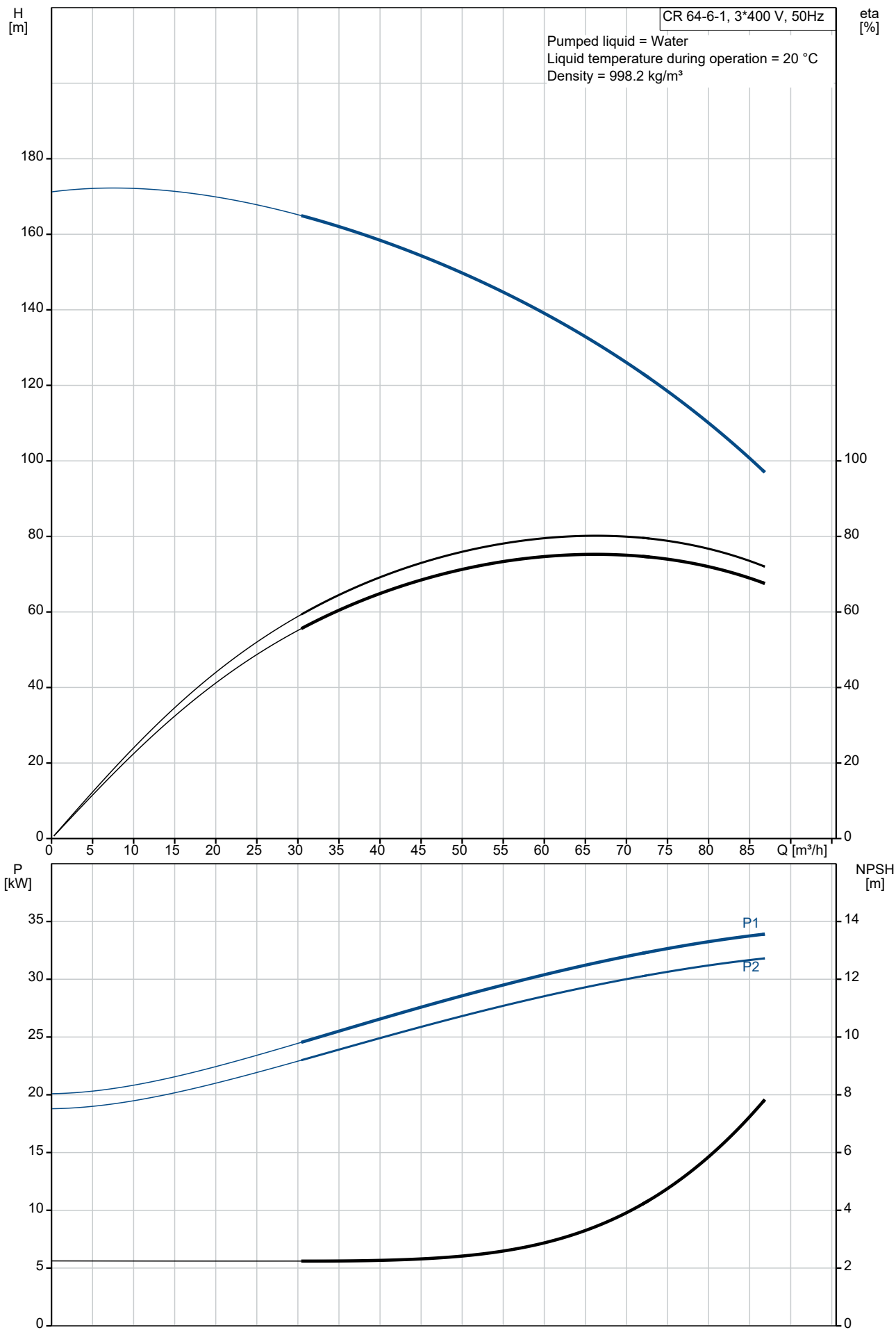
#### Datasheet



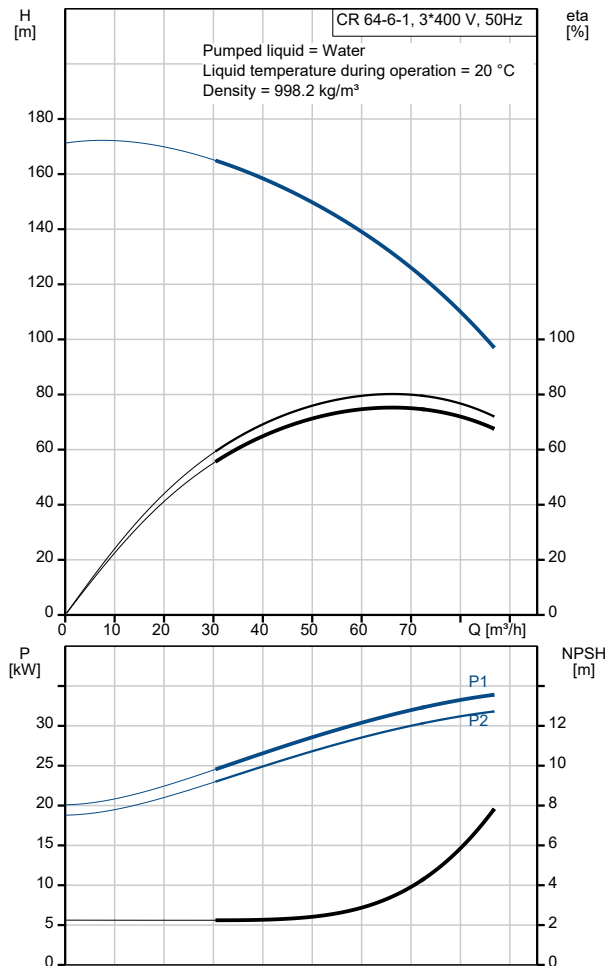
| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| 1    | <p><b>CR 64-6-1 A-F-A-E-HQQE</b></p>  <p><b>Note! Product picture may differ from actual product</b></p> <p>Product No.: <a href="#">96123541</a></p> <p>Vertical, non-self-priming, multistage, in-line, centrifugal pump for installation in pipe systems and mounting on a foundation.</p> <p>The pump has the following characteristics:</p> <ul style="list-style-type: none"> <li>- Impellers and intermediate chambers are made of Stainless steel, EN 1.4301.</li> </ul> <p>Impeller: Stainless steel, EN 1.4301.</p> <p>Pump housing: - Pump head and base are made of Cast iron.</p> <ul style="list-style-type: none"> <li>- The shaft seal has assembly length according to EN 12756.</li> <li>- Power transmission is via cast iron split coupling.</li> </ul> <p>Flange standard: - Pipework connection is via DIN flanges.</p> <p>Phase: The motor is a 3-phase AC motor.</p> <p>Controls:</p> <p>Frequency converter: NONE</p> <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: -30 .. 120 °C</p> <p>Selected liquid temperature: 20 °C</p> <p>Density: 998.2 kg/m³</p> <p>Technical:</p> <p>Pump speed on which pump data are based: 2957 rpm</p> <p>Rated flow: 64 m³/h</p> <p>Rated head: 132.1 m</p> <p>Pump orientation: Vertical</p> <p>Shaft seal arrangement: Single</p> <p>Code for shaft seal: HQQE</p> <p>Approvals on nameplate: CE,EAC,UKCA,WRAS,ACS</p> <p>Curve tolerance: ISO9906:2012 3B</p> <p>Materials:</p> <p>Base: Cast iron<br/>EN 1563 EN-GJS-500-7<br/>ASTM A536 80-55-06</p> <p>Impeller: Stainless steel<br/>EN 1.4301<br/>AISI 304</p> <p>Bearing: SIC</p> <p>Support bearing: Graflon</p> |

| Qty. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | <p>Installation:</p> <p>Maximum ambient temperature: 55 °C</p> <p>Maximum operating pressure: 30 bar</p> <p>Max pressure at stated temp: 30 bar / 120 °C<br/>30 bar / -30 °C</p> <p>Type of connection: DIN</p> <p>Size of inlet connection: DN 100</p> <p>Size of outlet connection: DN 100</p> <p>Pressure rating for connection: PN 40</p> <p>Flange size for motor: FF350</p> <p>Electrical data:</p> <p>Motor standard: IEC</p> <p>Motor type: SIEMENS</p> <p>IE Efficiency class: IE3</p> <p>Rated power - P2: 37 kW</p> <p>Power (P2) required by pump: 37 kW</p> <p>Mains frequency: 50 Hz</p> <p>Rated voltage: 3 x 380-420D/660-725Y V</p> <p>Rated current: 68,0-63,0/39,0-36,0 A</p> <p>Starting current: 670-670 %</p> <p>Cos phi - power factor: 0.88</p> <p>Rated speed: 2955 rpm</p> <p>Efficiency: IE3 93,7%</p> <p>Motor efficiency at full load: 93.7-93.7 %</p> <p>Motor efficiency at 3/4 load: 93.9-93.9 %</p> <p>Motor efficiency at 1/2 load: 93.5-93.5 %</p> <p>Number of poles: 2</p> <p>Enclosure class (IEC 34-5): IP55</p> <p>Insulation class (IEC 85): F</p> <p>Motor No: 81U15334</p> <p>Others:</p> <p>Minimum efficiency index, MEI ≥: 0.70</p> <p>Net weight: 349 kg</p> <p>Gross weight: 388 kg</p> <p>Shipping volume: 0.805 m³</p> <p>Danish VVS No.: 385908061</p> <p>Finnish LVI No.: 4925525</p> <p>Country of origin: DK</p> <p>Custom tariff no.: 84137075</p> |

96123541 CR 64-6-1 A-F-A-E-HQQE 50 Hz

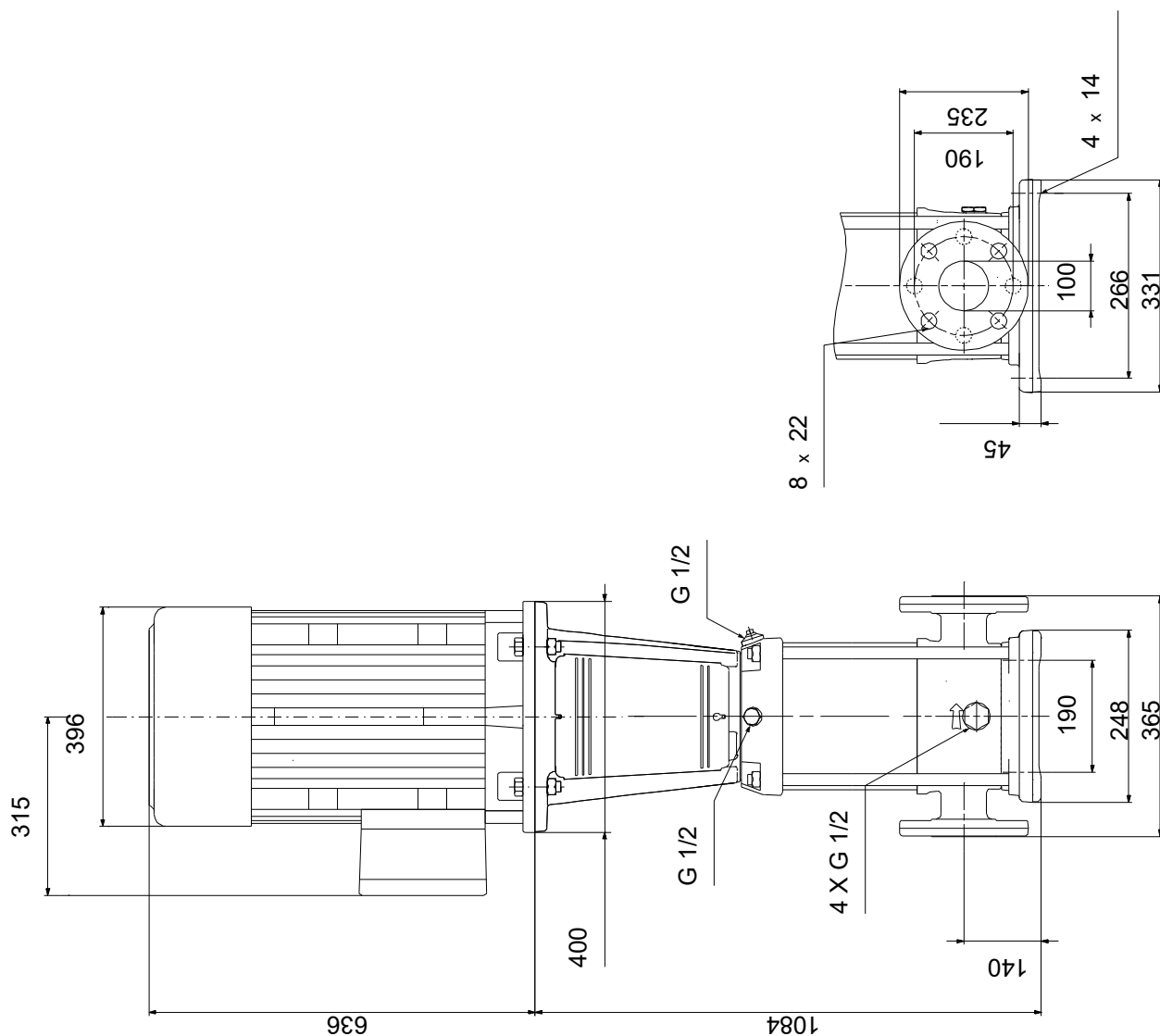


| Description                              | Value                      |
|------------------------------------------|----------------------------|
| <b>General information:</b>              |                            |
| Product name:                            | CR 64-6-1<br>A-F-A-E-HQQE  |
| Product No:                              | 96123541                   |
| EAN number:                              | 5700396697512              |
| <b>Technical:</b>                        |                            |
| Pump speed on which pump data are based: | 2957 rpm                   |
| Rated flow:                              | 64 m³/h                    |
| Rated head:                              | 132.1 m                    |
| Maximum head:                            | 168.4 m                    |
| Stages:                                  | 6                          |
| Impellers:                               | 6                          |
| Number of reduced-diameter impellers:    | 1                          |
| Low NPSH:                                | N                          |
| Pump orientation:                        | Vertical                   |
| Shaft seal arrangement:                  | Single                     |
| Code for shaft seal:                     | HQQE                       |
| Approvals on nameplate:                  | CE,EAC,UKCA,WRAS,A<br>CS   |
| Curve tolerance:                         | ISO9906:2012 3B            |
| Pump version:                            | A                          |
| Model:                                   | B                          |
| <b>Materials:</b>                        |                            |
| Base:                                    | Cast iron                  |
| Base:                                    | EN 1563 EN-GJS-500-7       |
| Base:                                    | ASTM A536 80-55-06         |
| Impeller:                                | Stainless steel            |
| Impeller:                                | EN 1.4301                  |
| Impeller:                                | AISI 304                   |
| Material code:                           | A                          |
| Code for rubber:                         | E                          |
| Bearing:                                 | SIC                        |
| Support bearing:                         | Graflon                    |
| <b>Installation:</b>                     |                            |
| Maximum ambient temperature:             | 55 °C                      |
| Maximum operating pressure:              | 30 bar                     |
| Max pressure at stated temp:             | 30 bar / 120 °C            |
| Max pressure at stated temp:             | 30 bar / -30 °C            |
| Type of connection:                      | DIN                        |
| Size of inlet connection:                | DN 100                     |
| Size of outlet connection:               | DN 100                     |
| Pressure rating for connection:          | PN 40                      |
| Flange size for motor:                   | FF350                      |
| Connect code:                            | F                          |
| <b>Liquid:</b>                           |                            |
| Pumped liquid:                           | Water                      |
| Liquid temperature range:                | -30 .. 120 °C              |
| Selected liquid temperature:             | 20 °C                      |
| Density:                                 | 998.2 kg/m³                |
| <b>Electrical data:</b>                  |                            |
| Motor standard:                          | IEC                        |
| Motor type:                              | SIEMENS                    |
| IE Efficiency class:                     | IE3                        |
| Rated power - P2:                        | 37 kW                      |
| Power (P2) required by pump:             | 37 kW                      |
| Mains frequency:                         | 50 Hz                      |
| Rated voltage:                           | 3 x 380-420D/660-725Y<br>V |
| Rated current:                           | 68,0-63,0/39,0-36,0 A      |
| Starting current:                        | 670-670 %                  |
| Cos phi - power factor:                  | 0.88                       |
| Rated speed:                             | 2955 rpm                   |
| Efficiency:                              | IE3 93,7%                  |
| Motor efficiency at full load:           | 93.7-93.7 %                |



| Description                      | Value                |
|----------------------------------|----------------------|
| Motor efficiency at 3/4 load:    | 93.9-93.9 %          |
| Motor efficiency at 1/2 load:    | 93.5-93.5 %          |
| Number of poles:                 | 2                    |
| Enclosure class (IEC 34-5):      | IP55                 |
| Insulation class (IEC 85):       | F                    |
| Motor protec:                    | PTC                  |
| Motor No:                        | 81U15334             |
| <b>Controls:</b>                 |                      |
| Frequency converter:             | NONE                 |
| <b>Others:</b>                   |                      |
| Minimum efficiency index, MEI ≥: | 0.70                 |
| Net weight:                      | 349 kg               |
| Gross weight:                    | 388 kg               |
| Shipping volume:                 | 0.805 m <sup>3</sup> |
| Danish VVS No.:                  | 385908061            |
| Finnish LVI No.:                 | 4925525              |
| Country of origin:               | DK                   |
| Custom tariff no.:               | 84137075             |

# 96123541 CR 64-6-1 A-F-A-E-HQQE 50 Hz



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

**Spare parts CR 64-6-1, Product No. 96123541**  
**Produced After 1410 (production year and week number)**

| Pos   | Omschrijving                   | Opmerking tekst | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|-------|--------------------------------|-----------------|------------------------|--------------|--------|---------|
| -     | Base                           |                 |                        | 96587673     | 1      | pcs     |
| 6     | Base                           |                 |                        |              | 1      |         |
|       | Kit, chamber stack             |                 |                        | 99062815     | 1      | pcs     |
| -     | Kit, chambers                  |                 |                        | 98497500     | 1      | pcs     |
| - 4a  | Intermediate chamber cpl.      |                 |                        |              | 1      |         |
|       | Cone                           |                 |                        |              | 1      |         |
|       | Spare, turbulence optimizer KP |                 |                        |              | 1      |         |
|       | Spare, turbulence optimizer KP |                 |                        |              | 1      |         |
|       | Spare, turbulence optimizer KP |                 |                        |              | 1      |         |
|       | Spare, turbulence optimizer KP |                 |                        |              | 1      |         |
|       | Spare, turbulence optimizer KP |                 |                        |              | 10     |         |
| - 45a | Neck ring cpl.                 |                 |                        |              | 1      |         |
| 45    | Seal ring                      |                 |                        |              |        |         |
| 46    | Neck ring                      |                 |                        |              |        |         |
| 65    | Top f/neck ring                |                 |                        |              |        |         |
| 47    | Bearing                        |                 |                        |              | 1      |         |
| - 47a | Bearing cpl.                   |                 |                        |              | 1      |         |
|       | Driver                         |                 |                        |              | 1      |         |
|       | Holder                         |                 |                        |              | 1      |         |
|       | Disc spring                    |                 |                        |              | 1      |         |
|       | Bearing ring                   |                 |                        |              | 1      |         |
| -     | Kit, coupling                  |                 |                        | 96416594     | 1      | pcs     |
|       | Adjusting fork                 |                 |                        |              | 1      |         |
| - 8   | Coupling cpl.                  |                 | Dimension: 22/55       |              | 1      |         |
| 9     | Hex socket head cap screw      |                 | Designation: DIN 912   |              | 4      |         |
|       |                                |                 | Length (mm): 25        |              |        |         |
|       |                                |                 | Thread: M10            |              |        |         |
| 10a   | Coupling half                  |                 |                        |              | 2      |         |
| -     | Kit, coupling guard            |                 |                        | 96505135     | 1      | pcs     |
| 7a    | Socket button head screw       |                 |                        |              | 4      |         |
| 7     | Coupling guard                 |                 |                        |              | 2      |         |
| -     | Kit, cover                     |                 |                        | 98832448     | 1      | pcs     |
| 58a   | Hex socket head cap screw      |                 | Designation: DIN 912   |              | 4      |         |
|       |                                |                 | Length (mm): 25        |              |        |         |
|       |                                |                 | Thread: M10            |              |        |         |
| 58    | Cover                          |                 |                        |              | 1      |         |
| -     | Kit, gaskets                   |                 |                        | 96416599     | 1      | pcs     |
|       | Adjusting fork                 |                 |                        |              | 1      |         |
| 37    | O-ring                         |                 |                        |              | 2      |         |
| 38    | O-ring                         |                 |                        |              | 2      |         |
| 38    | O-ring                         |                 |                        |              | 4      |         |
| 60    | Spring                         |                 |                        |              | 4      |         |
| 109   | O-ring                         |                 |                        |              | 1      |         |
| 110   | O-ring                         |                 | Diameter: 21,2         |              | 1      |         |
|       |                                |                 | Material type: EPDM    |              |        |         |
|       |                                |                 | Thickness: 3,55        |              |        |         |
| -     | Kit, impeller                  |                 |                        | 98497503     | 1      | pcs     |
| 48    | Nut                            |                 |                        |              | 1      |         |
| 48    | Nut                            |                 |                        |              | 1      |         |
| 49b   | Split cone                     |                 |                        |              | 1      |         |
| - 49  | Impeller                       |                 |                        |              | 1      |         |
|       | Impeller hub                   |                 |                        |              | 1      |         |
| 49c   | Wear ring                      |                 |                        |              | 1      |         |
| -     | Kit, Impeller, reduced         |                 |                        | 98634080     | 1      | pcs     |
| 48    | Nut                            |                 |                        |              | 1      |         |
| 48    | Nut                            |                 |                        |              | 1      |         |
| 49b   | Split cone                     |                 |                        |              | 1      |         |
| - 49a | Impeller, reduced diameter     |                 |                        |              | 1      |         |
|       | Impeller hub                   |                 |                        |              | 1      |         |

| Pos   | Omschrijving              | Opmerking tekst | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|-------|---------------------------|-----------------|------------------------|--------------|--------|---------|
| 49c   | Wear ring                 |                 |                        |              | 1      |         |
| -     | Kit, plug                 |                 |                        | 96505136     | 1      | pcs     |
| - 18  | Air vent screw            |                 |                        |              | 1      |         |
|       | Spindle                   |                 |                        |              | 1      |         |
|       | Plug                      |                 |                        |              | 1      |         |
| 25    | Plug                      |                 |                        |              | 4      |         |
| 25    | Plug                      |                 |                        |              | 1      |         |
| 38    | O-ring                    |                 |                        |              | 2      |         |
| 38    | O-ring                    |                 |                        |              | 4      |         |
| 38    | O-ring                    |                 | Diameter: 16,3         |              | 2      |         |
|       |                           |                 | Material type: FKM     |              |        |         |
|       |                           |                 | Thickness: 2,4         |              |        |         |
| 38    | O-ring                    |                 | Diameter: 16,3         |              | 4      |         |
|       |                           |                 | Material type: FKM     |              |        |         |
|       |                           |                 | Thickness: 2,4         |              |        |         |
| 38    | O-ring                    |                 | Diameter: 16,3         |              | 6      |         |
|       |                           |                 | Material type: FKM     |              |        |         |
|       |                           |                 | Thickness: 2,4         |              |        |         |
| -     | Kit, shaft seal HQQE      |                 |                        | 96525458     | 1      | pcs     |
|       | Grinding device           |                 |                        |              | 1      |         |
| - 105 | Shaft seal                |                 | Material type: HQQE    |              | 1      |         |
|       | Adjusting fork            |                 |                        |              | 1      |         |
| 109   | O-ring                    |                 |                        |              | 1      |         |
| 110   | O-ring                    |                 | Diameter: 21,5         |              | 1      |         |
|       |                           |                 | Material type: EPDM    |              |        |         |
|       |                           |                 | Thickness: 4,25        |              |        |         |
| -     | Kit, wear parts           |                 |                        | 98497495     | 1      | pcs     |
| 45    | Seal ring                 |                 |                        |              | 8      |         |
| 47d   | Lock ring                 |                 |                        |              | 8      |         |
| 47c   | Bush                      |                 |                        |              | 6      |         |
| 49c   | Wear ring                 |                 |                        |              | 8      |         |
| 65    | Top f/neck ring           |                 |                        |              | 8      |         |
| -     | Motor                     |                 |                        |              | 1      | pcs     |
| 156   | Kit, fan                  |                 |                        | 98062265     | 1      |         |
| 151   | Kit, fan cover            |                 |                        | 98062275     | 1      |         |
| 156b  | Kit, flange               |                 |                        | 98062279     | 1      |         |
|       | Kit, lubrication nipple   |                 |                        | 98062531     | 1      |         |
| 156a  | Kit, ND-end shield cpl.   |                 |                        | 98062517     | 1      |         |
| 159b  | Kit, seal ring            |                 |                        | 98062551     | 1      |         |
| 176   | Kit, terminal board       |                 |                        | 98062236     | 1      |         |
| 164a  | Kit, terminal box         |                 |                        | 98062262     | 1      |         |
| 1a    | Motor stool               |                 |                        | 98967671     | 1      | pcs     |
| 2     | Pump head                 |                 |                        | 96547433     | 1      | pcs     |
| 7a    | Socket button head screw  |                 |                        | 96549696     | 4      | pcs     |
| 7     | Coupling guard            |                 |                        | 96603279     | 2      | pcs     |
| 9     | Hex socket head cap screw |                 | Designation: DIN 912   | 99789390     | 4      | pcs     |
|       |                           |                 | Length (mm): 25        |              |        |         |
|       |                           |                 | Thread: M10            |              |        |         |
| + 18  | Air vent screw            |                 |                        | 96547461     | 1      | pcs     |
| + 18  | Air vent screw            |                 |                        | 95061351     | 1      | pcs     |
| 25    | Plug                      |                 |                        | 96536013     | 1      | pcs     |
| 26    | Staybolt                  |                 | Length (mm): 663       | 98976738     | 4      | pcs     |
|       |                           |                 | Thread: M16            |              |        |         |
| 28    | Hex socket head cap screw |                 | Designation: DIN 912   | 96536147     | 4      | pcs     |
|       |                           |                 | Length (mm): 50        |              |        |         |
|       |                           |                 | Thread: M10            |              |        |         |
| 28    | Hex head screw            |                 |                        | 99869043     | 2      | pcs     |
| 28    | Hex head screw            |                 | Length (mm): 60        | 97506949     | 2      | pcs     |
|       |                           |                 | Thread: M16            |              |        |         |
| 32    | Washer                    |                 | Designation: DIN 125 A | 98923051     | 8      | pcs     |
|       |                           |                 | Internal diameter: 17  |              |        |         |
|       |                           |                 | Outer diameter: 30     |              |        |         |
|       |                           |                 | Thickness: 3           |              |        |         |
| 36    | Hex nut                   |                 | Thread: M16            | 96620480     | 4      | pcs     |

| Pos   | Omschrijving   | Opmerking tekst | Classificatie Gegevens | Onderdeelnr. | Aantal | Eenheid |
|-------|----------------|-----------------|------------------------|--------------|--------|---------|
| 37    | O-ring         |                 |                        | 96536142     | 1      | pcs     |
| 38    | O-ring         |                 |                        | 99198815     | 2      | pcs     |
| 38    | O-ring         |                 |                        | 99412727     | 2      | pcs     |
| 55    | Outer sleeve   |                 | Outer diameter: 216,0  | 98820380     | 1      | pcs     |
|       |                |                 | Length (mm): 518,5     |              |        |         |
| 58    | Cover          |                 |                        | 98893158     | 1      | pcs     |
| 60    | Spring         |                 |                        | 96536032     | 4      | pcs     |
| - 105 | Shaft seal     |                 | Material type: HQQE    | 96984086     | 1      | pcs     |
|       | Adjusting fork |                 |                        | 96587896     | 1      |         |
| 109   | O-ring         |                 |                        | 99651108     | 1      |         |
| 109   | O-ring         |                 |                        | 96547586     | 1      |         |
| + 105 | Shaft seal     |                 | Material type: HQQE    | 96984070     | 1      | pcs     |
| 440b  | Lock ring      |                 |                        | 96547435     | 1      | pcs     |