I Application

The RV pump is a highly efficient centrifugal pump with helicoidal impeller. It is the best solution for the transfer of liquids with a high concentration of solid particles (up to 60%) that cannot be pumped with an ordinary centrifugal pump without being damaged. Due to the helicoidal shape of the impeller, the transfer of the product is gentle and without clogging. It is ideal for applications of the transfer of pieces of fruit or whole fruits, olives, mushrooms, slices of orange, vegetables, fish, etc. The RV centrifugal pumps are also widely used in wineries for the pump-over process where the high flow and minimum destruction of the suspended solid parts (seeds, skins, etc.) is required.

I Design and features

The RV close-coupled centrifugal pump consists of a pump casing with volute, helicoidal impeller, mechanical seal and pump cover. The RV centrifugal pump is highly efficient (>70%) (low power consumption).

Triphasic induction motor with B5 flange and B3 feet, in compliance with the IEC standards, 2 poles = 3000/3600 rpm, IE-2 efficiency class, IP 55 protection and F-class insulation.
3 phases, 50 Hz, 220-240 V Δ / 380-420 V Y, ≤ 4 kW
3 phases, 50 Hz 380-420 V Δ / 660-690 V Y, ≥ 5,5 kW

I Technical specifications

Materials:
Parts in contact with the product       AISI 316L
Lantern                                AISI 316L
Other St.St. parts                     AISI 304
Internal surface finish               Bright polish
External surface finish               Matte

Mechanical seal EN 12756 (DIN 24960 L1K):
Rotary part                            SiC
Stationary part                         SiC
Gaskets                                EPDM

Connections:                           DIN 11851
CLAMP
SMS
(Other connections available on request)

Maximum particle size:                 ø 75mm.
**I Technical specifications**

Operating limits:
- Max. working pressure: 10 bar (145 PSI)
- Temperature range: 
  - -10 ºC to +120 ºC (EPDM) 14 ºF to 248 ºF
  - +140 ºC (SIP, max. 30 min) 284 ºF
- Max. flow: 180 m³/h (793 US GPM)
- Max. differential head: 22 mcl (72 ft)
- Max. speed: 1800 rpm

**I Options**

- CE control panel with 10 m cable and plug.
- St.St. trolley.
- Remote control.
- Motor shroud and adjustable feet.
- Motor with frequency converter.

**I General dimensions**

Dimensions X

<table>
<thead>
<tr>
<th>Pump</th>
<th>DN</th>
<th>DIN</th>
<th>SMS</th>
<th>CLAMP</th>
<th>RJT</th>
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<td>21,5</td>
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<tr>
<th>Pump</th>
<th>Ø solids</th>
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<tr>
<td>RV-80</td>
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<tr>
<td>RV-100</td>
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