### **Olive Transfer Equipment**

# <u>RV-100R SP</u>



#### **I** Application

The RV-100R SP equipment consists of a high capcity helicoidal impeller pump (RV-100R) and a vacuum pump (SP module) that automates the priming process.

The main application is in the food-processing industry: transfer of olives with the self-priming capacity. The equpment transfers from 20.000 to 80.000 kg/h of olives, the capacity depends on the size of olives and the their concentration determined by the position of the sliding screen situated in the aspiration pipe.

### I Operating principle

The operating principle of the helicoidal impeller pump borrows its characteristics from the mixed flow centrifugal pumps. The impeller has only one vane, it is housed inside the pump casing and rotates in conjunction with the shaft, conveying the kinetic and pressure energy to the liquid. Then, in the volute of the casing the transformation of this energy results in the form of pressure.

The vacuum module consists of liquid ring vacuum pump, separating tank and a level sensor to detect the presence of liquid in the casing.

The device permits to actuate the big size ball valve instealled at the outlet of the pump.

The pump for the return of the excess brine (RV, Hyginox or Estampinox) is selected regarding the equipment pump capacity and the concentration of solid particles.

#### I Design and features

Investment casting pump casing with drain port and eccentric volute. Standard connections DIN 11851. Mechanically balanced helicoidal impeller of double curvature with a single vane. Bearing support in the lantern. Sanitary mechanical seal. Close-coupled pump with trolley. Motor IEC IP55, F-class insulation. Motor shroud. Polyester control panel with frequency converter. 3A certified pump.

### I Materials

Parts in contact with the product Other st.st. parts Gaskets Mechanical seal Internal surface finish External surface finish AISI 316L AISI 304 EPDM according to FDA 177.2600 SiC/SiC/EPDM Ra ≤ 0,8 μm Mirror polish



motralec

4 rue Lavoisier . ZA Lavoisier . 95223 HERBLAY CEDEX Tel. : 01.39.97.65.10 / Fax. : 01.39.97.68.48 Demande de prix / e-mail : service-commercial@motralec.com

www.motralec.com

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## **I Options**

Other connections: Clamp, flange, SMS. Motors with other protections. St.st. control panel. Remote control.

## I Technical specifications

Max.flow Max.differential head Max.working pressure Max.working pressure

Max.speed

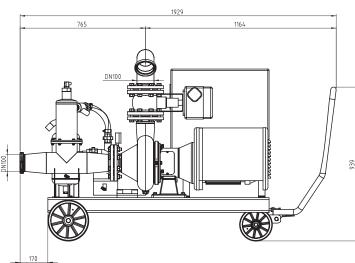
180 m<sup>3</sup>/h 22 mwc 10 bar -10 °C to +120 °C (EPDM) +140 °C (SIP, max. 30 min) 1800 rpm 793 US GPM 72 ft 145 PSI 14 °F to 248 °F 284 °F

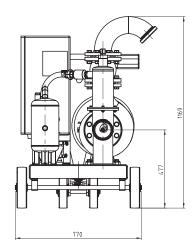


 Power
 Speed
 Weight
 Code

 5,5 kW
 1500 rpm
 420 kg
 C5810-014055

 7,5 kW
 1500 rpm
 420 kg
 C5810-014075





## I Process

