



**USERS MANUAL AND  
INSTRUCTIONS FOR  
THE USE OF SUCTION  
PUMP: TRADEMARK  
PARRA**

# **INDEX**

## **1. GENERAL DESCRIPTION OF THE PUMPS**

## **2. INSTRUCTION MANUAL**

### **2.1. INSTALLATION**

### **2.2. PREVIOUS CONTROLS**

### **2.3. START-UP**

### **2.4. MAINTENANCE**

### **2.5. SECURITY DIRECTIONS AND PREVENTION OF DAMAGES IN THE PUMP AND PEOPLE OR USERS**

## **3. POSSIBLE DAMAGES, CAUSES AND SOLUTIONS**

## **1. GENERAL DESCRIPTION OF THE PUMPS.**

This manual is made of global form in observance of the law and valid legislation at this time, the manual doesn't have contractual character. It is reserved the right to any modification by the maker in function of contractual requirements with the client.

Every model of suction pump as helicoidal as flexible pad, **TRADEMARK PARRA**, they are agreed and fulfil with the rules of the following Directives.

**The Directives of Machine. 98/37/CE**, with the condition to the installation will be realised accurately by the user of the machine according to the instructions of installation and use.

**With the Real Decree 1215/97 paragraph 1 of the Annexe I** of who it is stated the minimum rules of security and health for the use of these equipments, and whose tests of certification are based on the following European rules:

And the components which are incorporated into the product, they fulfil with the essential requirements of the following directives and rules:

The motors with **the Directive of low tension 73/23/EEC** (modified by 93/68/EC) and **Certificated of Incorporation** (Directive 89/392/EEC, art. 4.2 y annexe I Sub B), and with respect to the internal characteristic fulfil with the rule **EN 60 034-1**.

All the pumps are indicated and recommended for coming and going of wines, grape or olive skins left after pressing, pastes of the industry of the vine and olive mainly, moreover their application it is extended to the industry of the plaster and other sectors as the feeding if the product has got a minimum grade of viscosity.

In general, every part of the pump which is in contact with the pumped product, are built in stainless steel AISI-304. It is used stainless steel AISI-316 for the sector of feeding in every model and every part where the liquid can be in contact with their.

The specific technology characteristics of every one of the models are given as in the offer as in the confirmation of the order.

In function of the models the caudal of pumped are between a minimum of 14.000 litres per hour and a maximum of 28.000 litres per hour.

The electrical motors that are incorporated in every one of the models fulfil with the own community directives valid at this time.

The control panels of electrical motors are optional with order and contractual character. It is guaranteed the fulfilment of the directive 73/23/CEE (low tension) and the European Rules EN 60.335-2-41.

## **2. INSTRUCTION MANUAL**

The instructions, which we give, have for object the correct installation and the best efficiency of our pumps.

They are suction pumps with other elements incorporated specially designed and conceived for the comings and goings of muddy liquid to the industry in general and to the industry of the vide and the olive in particularly.

Going on with the instructions of installation and use with a suitable form, and the pattern of electrical connexion will avoid overloads in the motor and other problems. We aren't responsible for the wrong use of the pump.

### **2.1. INSTALATION**

The installation of our pumps will be realised by the own instructions of every model.

In spite the fact that the instructions can be applicable to general character to all models independently of the limit of the use of every model in function to the orders of the client.

- a) Tension indicated in the motor have to be the same that the red is.

- b) In case that the pump haven't installed a motor you have to be connected the pump to the red by an omnipolar interrupter (It has to switch off all wires of electricity) with a distance of opening between the contacts for 3mm as show the switch of the pump.
- c) You must assure that the motor can autoventilate like it comes of the factory.
- d) In every model, and with general character, the lengths recommended to the hose of suction are between a minimum of a metre to a maximum of 15metres and length of exit under point of view of the client.
- e) It is recommended that the maximum height won't be higher that 12metres
- f) As the diameter of entrée (Suction) as de diameter of exit are 80mm, can be optional and by order between a minimum of 60mm and a maximum to 100mm.
- g) It is recommended that the clamps of subjection of the hose will be normally and installed by the user it is his responsibility for the correct subjection and the security of the anchor.
- h) Before the electrical connexion and the start-up, **it is very important to lubricate the pump by the tube of suction with the same liquid that you will be going to come and go and, to turn the polea with the key in the sense that indicate the arrow to the pump is soft.**

## **2.2. PREVIOUS CONTROLS**

The previous controls have to be realised before the start-up and they have to verify the parts a, b, c, d, e, f, g, y h. It is important that the pump always is lubricated before with the liquid to come and go.

## **2.3. START- UP**

The start- up is realised by the electrical activation of every model and its instructions. It is necessary lubricate the suction the suction with the product which is going to work. For this reason, it is necessary take out the protection of every model and with the key you have to turn the shaft in the sense of the arrow to the pump is soft, after you have to put the protection and the pump can start-up

## **2.4. MAINTENACE**

It is recommended to ask to the maker before to operate on the pump there are spares and a immediately system of repairing if there were some incidence or corrosion of the parts of every model and generation.

## **2.5. SECURITY DIRECTIONS AND PREVENTION OF DAMAGES IN THE PUMP AND PEOPLE OR USERS.**

**Don't work with the pump empty. Always to prime with the liquid to come and go.**

**Turn off the electricity before every manipulation or intervention.**

**Don't take out the security protections that every pump is wearing.**

**Assure that all protections are installed before the start- up of the pump.**

### **3. POSSIBLE DAMAGES, CAUSES AND SOLUTIONS.**

<b>NUMBER</b>	<b>PROBLEM</b>	<b>POSSIBLE CAUSE</b>	<b>SOLUTION</b>
1.	The pump doesn't start up	<ul style="list-style-type: none"> <li>a) without tension</li> <li>b) wrong voltage</li>   <li>c) wrong connections</li> </ul>	<ul style="list-style-type: none"> <li>a) To rearm the fuses</li> <li>b) To check the voltage of the plate is corresponding with the red</li> <li>c) To revise the connections with the electricity</li> </ul>
2.	The pump starts up but it doesn't suck in.	<ul style="list-style-type: none"> <li>a) Turn off the motor inverted</li> <li>b) Height to the suction excessive</li> <li>c) Entry of air by the tube of suction</li> </ul>	<ul style="list-style-type: none"> <li>A) To invert the fuses to the motor</li> <li>b) To put the pump for whose tube doesn't exceed of 12. mm</li> <li>c) To put the tube of suction cor.</li> </ul>
3.	The pump makes noise and vibrations	<ul style="list-style-type: none"> <li>a) without subjection</li> <li>b) without liquid in the suction</li> </ul>	<ul style="list-style-type: none"> <li>a) To subject correctly</li> <li>b) To stop the machine and check-in the suction</li> </ul>
4.	The pump gives less caudal	<ul style="list-style-type: none"> <li>a) The hose of suction is in wrong position</li> <li>b)Corrosion of the rotor or stator</li> </ul>	<ul style="list-style-type: none"> <li>a) To check the hose of suction.</li> <li>b) To verify in factory and change the spare if it is possible</li> </ul>