

1. DESCRIPTION

This self priming electric pump with a rubber rotor is suitable for decanting delicate liquids of an alimentary type even where particles in suspension are present (like wine, milk, oil, stemmed grapes, fruit juices), and a vast range of chemical substances.

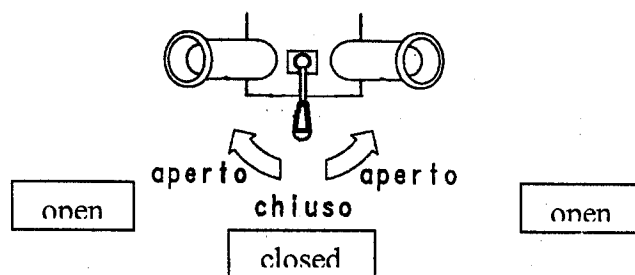
The electric pump can rotate in either direction. The main part of the pump is made entirely from AISI 304 stainless steel or, upon request from AISI 316, while the rotor is made entirely from rubber for alimentary use (Certificate N° 2218 dated 05/11/98; N° 2218/b dated 05/11/98; N° 2844 dated 30/11/98 in accordance with the D. M. dated 21/03/73 and D. M. n° 220 dated 26/04/93).

In models EURO 30 and EURO 40 the pump is fitted straight onto the driving shaft, while in models EURO 50 and EURO 60 the pump is fitted onto a pulley connected to the engine by a transmission belt.

Models EURO 50 and EURO 60 are also available in the version with **speed change drive unit (motorised converter), (speed change belt) and inverter.**

In all the models the pump is easy to open so that normal cleaning and maintenance procedures can be carried out by qualified personnel.

All models are equipped with BY-PASS: a valve in AISI 304 stainless steel situated on the main part of the pump which enables the flow to be adjusted as desired.



The electric pump is composed of the following components:

- ENGINE with stainless steel shaft in models Euro 30, Euro 40
- TROLLEY (optional in models Euro 30, Euro 40)
- ENGINE PULLEY (where included)
- PUMP PULLEY (where included)
- BELT (where included)
- PUMP SUPPORT
- RUBBER ROTOR
- SHAFT IN STAINLESS STEEL AISI 304 or AISI 316 in models Euro 50 and Euro 60

2. POSITIONING, TESTING AND INSTALLATION

The electric pump should be firmly positioned on a stable surface horizontal to the ground (put the brake on the central rotating wheel on the models which have one), the level of the liquid to be decanted should be at a maximum depth of not more than 5/6 metres from the axle of the pump, the suction intake should remain at least 10- 15 cm below the level of the liquid.

Before installing check the following: Before plugging in the machine check that the voltage of the engine (shown on the special tag) corresponds with that supplied at the mains and that the switch is turned to the off position at "Zero". The electrical safety of this machine is only guaranteed where the electrical installation has been efficiently earthed, in accordance with current regulations. Testing and any installation of the necessary electrical components must be carried out by qualified personnel. The use of adaptors or multiple sockets is not recommend; wherever they should prove essential only use products conforming to current safety regulations, and respect the maximum supply in terms of current and that of maximum power.

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Attaching tubes: the tubes should be of the rigid, reinforced type and should be attached to the pump using the special adjustable wire bands, avoiding excessive tightening which would produce a narrowing of the tube and prevent a steady flow of the liquid. Before turning on the machine and attaching the tubes the main part of the pump should be filled up to half its capacity with the liquid to be decanted.

IMPORTANT: never turn on the machine when empty (without any liquid in it). The first time the machine is used it should be given a preliminary wash to remove any residues which might have remained after manufacturing.

3. FUNCTIONING

The self priming EURO electric pumps are powered by electric engines (manufactured in the full respect of all current safety regulations), the switch of which, when the machine is off, should always be turned to "zero centrale".

To turn on the machine turn the switch to the desired speed or to the "1" position in models where speed regulation is not provided. The intake of the pump which will suck up the liquid to be decanted, is determined by the direction of rotation of the rotor, which can be seen by observing the rotation of the fan visible at the back of the machine .

Once the engine has been turned on after a few seconds priming gets going, if more than 10/13 seconds pass without this happening then you must turn off the engine, disconnect the power supply and check that the tubes have been properly attached or that there are no holes in the feed tubes since this could cause an infiltration of air .

If the machine is equipped with a by-pass, then this valve can be adjusted to regulate the flow as desired , increasing it (valve closed) or decreasing it (valve open).

IMPORTANT: when starting the procedure the by-pass must be closed; for the suction of solid particles the by-pass must be closed.

To turn the machine off just turn the switch on the engine to "zero centrale".

In the event of an emergency stop then turn the machine on again in the opposite direction then immediately invert the direction so as to eliminate any bodies which might hinder the rotation of the rotor.

4.WASHING AND MAINTENANCE

After use the machine should be washed so as to maintain its mechanical and hygienic features. Allow the machine to work for a few minutes with clean water then empty the tubes and the main part of the pump completely of any water. If planning on not using the machine for some time then pour a few drops of glycerine oil into the pump before turning it on for a few seconds .

Maintenance: all the parts of the pump are checked and adjusted in the factory before packing. For this reason the machine does not require any special maintenance , but just needs periodic checks which will also make it last longer.

IMPORTANT: Such periodic inspections should be carried out by qualified personnel with the machine unplugged.

The following aspects should be checked :

- i wear and tear of the rotor
- i wear and tear of transmission belts
- i check sealing rings
- i check bearings

In the event of repairs being necessary only use original spare parts ordered from St.Patrick's.

Possible causes of malfunctioning

PROBLEM	REMEDY
The pump isn't exerting enough pressure	Adjust the tension of the transmission belts . Check the state of wear and tear of the rotor.
Liquid is leaking from the main part of the pump	Check and if necessary replace the sealing rings
Liquid is leaking from the flange of the engine or the support of the pump	Check and if necessary replace the sealing rings
Breakage of one or more fins of the rotor	Replace the rotor with an original spare part ordered from the retailer or directly from the manufacturer
It's difficult to get the machine started	Check that the machine is getting enough power from the mains. Don't use extension leads which might cause a lowering of the tension.

5. WARNINGS

- i Put the machine in a dry place, where it is not exposed to bad weather and protect it from getting damp
- i Do not use the machine for decanting inflammable or explosive liquids or in an explosive environment, since the engine is not anti-deflagration
- i The temperature of the liquids being decanted should be between +5 C and 65 C; higher temperatures would compromise the general performance of the rotor
- i Before turning on the machine check that it has not been damaged during transport (breakage or dents) which could influence its functioning
- i Never plug it in, turn it on or perform any other operation on the electrical parts with wet hands
- i Do not remove the protective guard (on the models where it is provided) while the machine is in use, or while washing
- i Before using the machine carefully read this manual in all its parts, and keep it safely for future reference