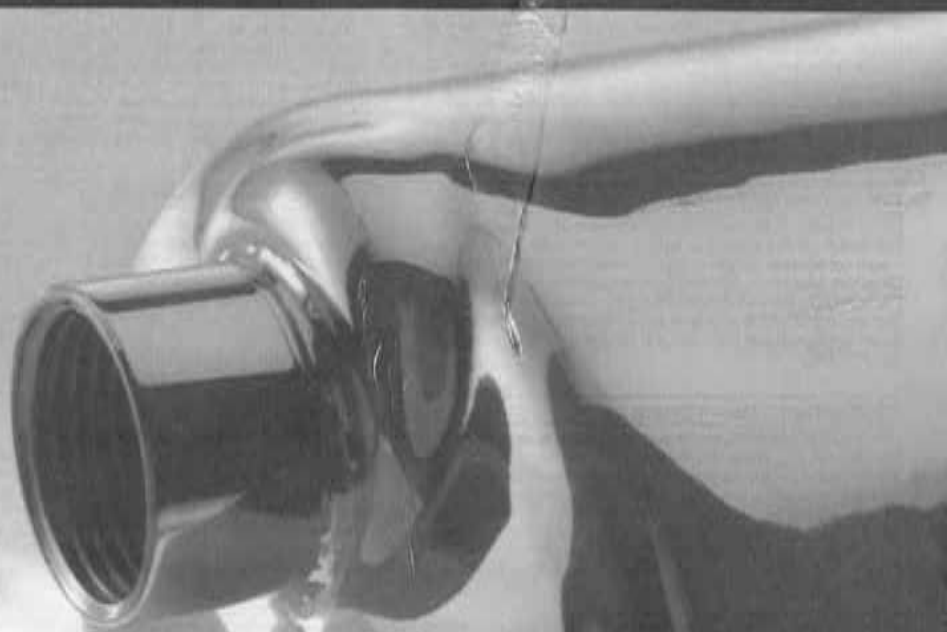


STEELPUMPS

E V O L U T I O N



- ① *Manuale d'uso e manutenzione*
- ⒸⒹ *Use and maintenance manual*
- Ⓕ *Instructions de montage et d'entretien*
- Ⓓ *Montage- und Betriebsanleitung*
- Ⓔ *Instrucciones para el uso y mantenimiento*



MADE IN ITALY

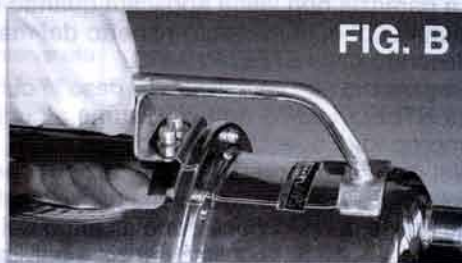
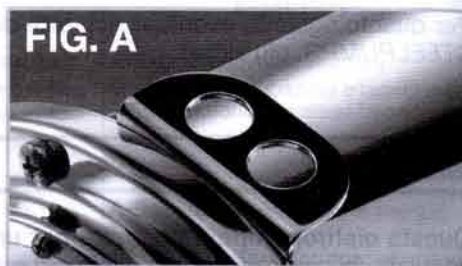
WARNING

Read carefully the herebelow instructions before installing the pumps, as *STEELPUMPS* declines its total responsibility for incidents or damages caused by negligence, less of respecting the instructions written in this manual and different uses from which specified in the nameplate.

Remove the pump from packaging and check its integrity. In case of any damages contact immediately the retailer.

Never use the power cable to support or move the pumps. Please use proper handle (Fig A).

For frequent and long movements, please use *ERGOGRIP* handle, supplied as optional (Fig. B).



TAKE CARE OF FOLLOWING SYMBOLS



DANGER

It warns that serious physical injuries can happen if instructions are not followed strictly



DANGER

It warns that can be a serious risk of electric shock if instructions are not followed strictly



WARNING

It warns that the pump or the installation can be damaged if instructions are not followed strictly

USES



WARNING

All our pumps can be used only to pump clean water, it's strictly forbidden to pump explosive, flammable liquids.

Protection : IP 68

Maximum room temperature: + 45°C

Temperature of the sucked water: between +2°C and +36°C

Voltage feeding : the one specified in the nameplate

IDRAULIC INSTALLATION



DANGER



DANGER

The installation can be effected only after having disconnected the pump from the power supply. The presence of any children or under age people must be strictly avoided during the installation phase.

We recommend to apply all the safety provisions, specified by the competent authorities and by good practice during installation.

The electric feeding must be effected by an appropriate line equipped with a differential current device, for the safeguard of the system.

Place the electropump on its feet as close as possible to the water source, check carefully that the pipes are perfectly clean inside.

Fix the pipes on their supports to avoids any vibrations or stresses to pump.

For the outside-water installation (fig. 1 / 1a / 1b), be sure that the diameter of pipes is bigger than the pump mouth. After installation always check that the suction pipe is perfectly sealed.

FIG. 1

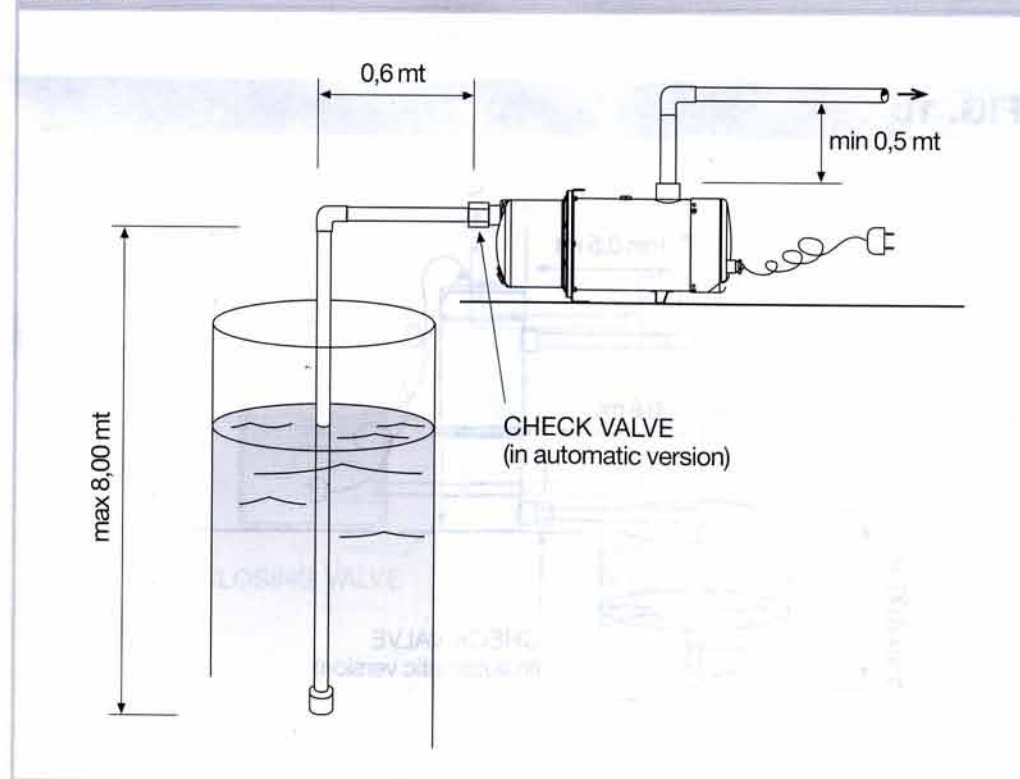


FIG. 1a

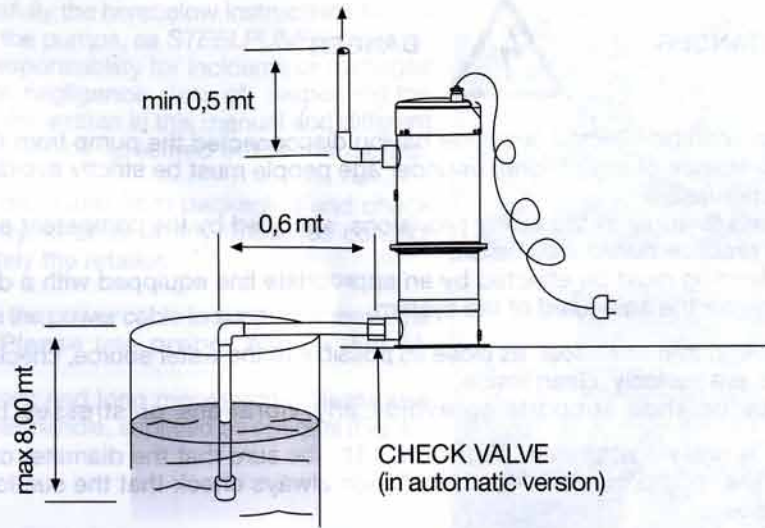
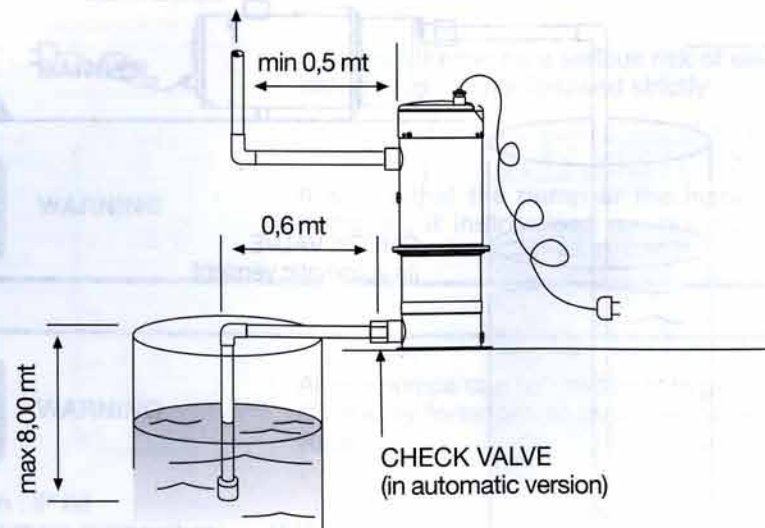
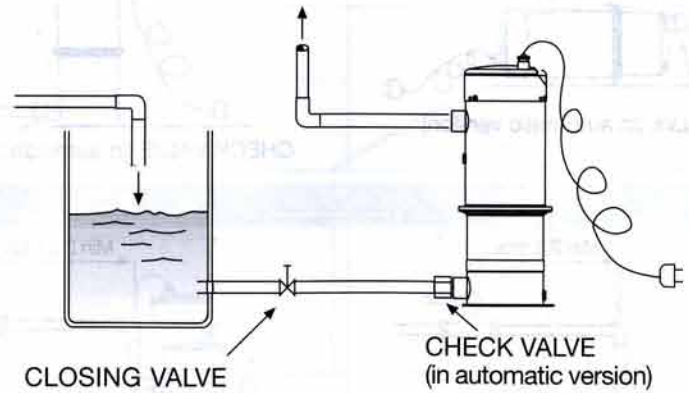
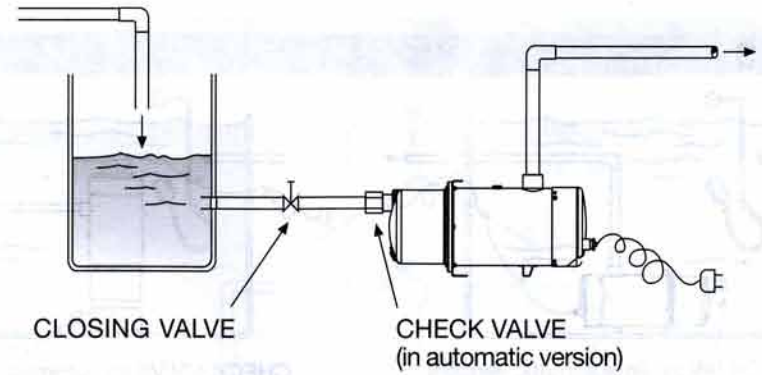


FIG. 1b



When the level of the water to be sucked is higher than the installed pump, always put a closing valve which allow an easier disassembly of the pump in case of maintenance operation or breakdown (fig. 2).

FIG. 2



All the pumps installed under water (submersible version) (fig. 3) , have been placed on the base of the tank or supported by a rope which must be laced up to the pump through the pertinent holes.

Strictly forbidden using the delivery pipe or electric cable to support the pump.

The pump must be installed to a maximum depth of 5 meters.

Please install a compensation tank when piping is less than 1" (Fig 3-A).

Please make sure that first check valve is installed at the minimum distance of 2,5 mts. from pump delivery output (Fig 3-B).

FIG. 3

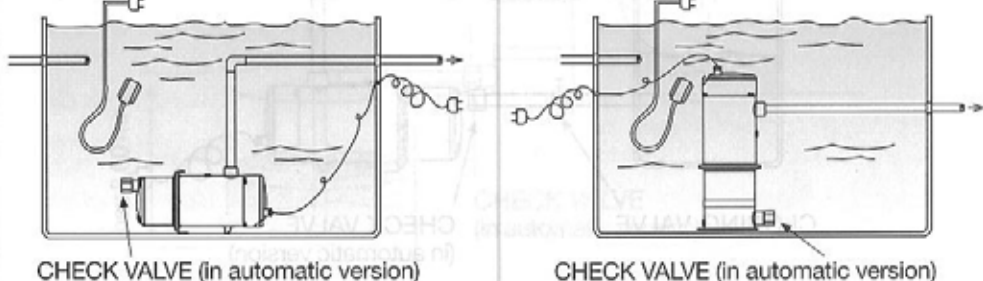


FIG. 3-A

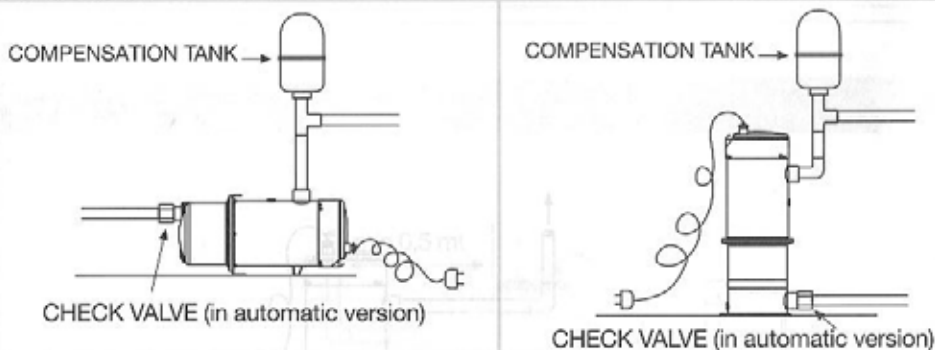
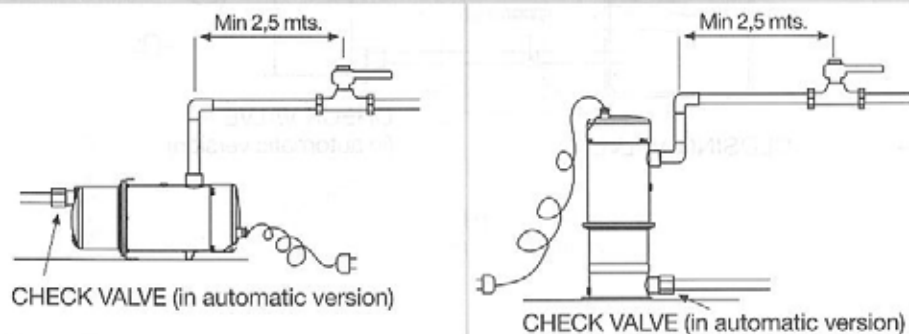


FIG. 3-B

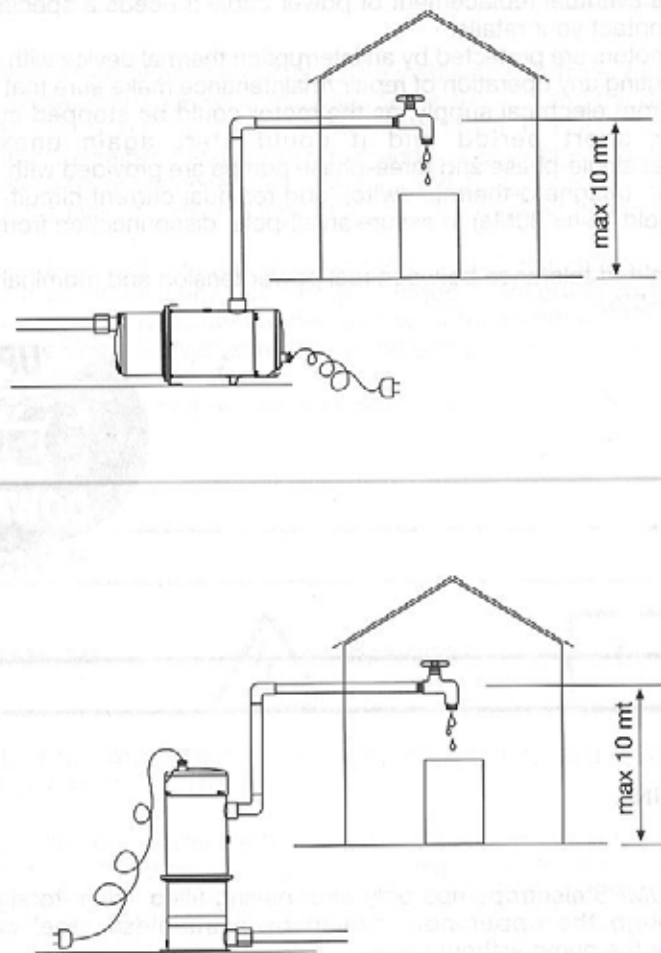


ELECTROPUMP AUTOMATIC VERSION

The check valve (equipped together with the pump) must always be installed on the suction mouth.

The water head below 10 meters (fig. 4)

FIG. 4



PLUG-IN



DANGER



DANGER



WARNING

The plug-in must be executed by a skilled technician, in accordance of local prescriptions, and safety measures.

Before plugging-in make sure of:

- 1) The electric installation meets safety measures
- 2) Frequency and tension are in conformity of which stated on plate

All our pumps **UP/DOWN** are equipped with 10 m of power cable and plug. **Be careful**, for the eventual replacement of power cable it needs a special equipment, therefore please contact your retailer.

The single-phase motors are protected by an interruption thermal device with a self-closing switch: before effecting any operation of repair /maintenance make sure that electropump is disconnected from electrical supply, as the motor could be stopped by the thermal device only for short period and it could start again unexpectedly. It is compulsory that single-phase and three-phase pumps are provided with an adequate electric protection (magneto-thermic switch and residual current circuit-breaker with intervention threshold $\text{min} = 30\text{Ma}$) to assure an all-pole disconnection from the electric current network.

The maximum admitted tolerance between real power tension and nominal value stated on the plate is of $\pm 5\%$.



STARTING



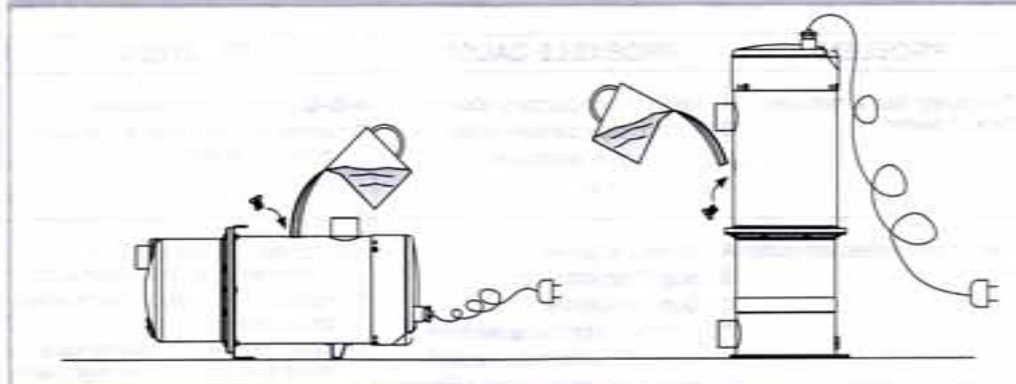
WARNING

Start the **STEELPUMPS'** electropumps only after having filled them totally with water (about 4 lt), through the upper hole sealed by a stainless steel cap (Fig. 5). Strictly avoid to use the pump without water.

For multistage pumps, series X-AMO and X-AMV, wait one minute after water dropping off the priming cap and then re-fill as before.

Please make sure pump is completely filled with water.

FIG. 5



During the self-priming phase (above all in the installation outside water) check that the inlet pipe is completely immersed in the water to be sucked, and the delivery pipe on the outlet of the pump has a linear section (without curves) of about 50 cm. To obtain a complete self-priming of the pump and to eject water from the delivery mouth, (in the automatic version) is necessary restarting the pump several times after the alarm informing us of the lack of water. the time of each automatic self-priming is of 30 seconds.

Be careful avoid to let the pump working more than 3 minutes (manual version) if it disconnected from water supplies. The prolonged functioning of the pump without replacement of water may cause dangerous rise in temperature and internal pressure. If water inside the pump is overheated, stop the pump before opening the gate to avoid damages to people and to the system.

Waiting for the pump to cool down before restaring it.

MAINTENANCE



DANGER



DANGER



WARNING

BEFORE EFFECTING ANY SORT OF OPERATIONS (MAINTENANCE) DISCONNECT THE PUMP FROM THE POWER SUPPLY.

In case of inactivity, It is advisable to disconnect the pump from the power supply and drain all the water. After a period of activity to clean the checking valve is very simple, just unscrew it after having before disconnected it from the suction pipe, rinse it under running water without using rigid instruments which may damage the seal.

The replacement of condenser must be effected only by authorized persons belong to Steelpumps' Company.

TROUBLESHOOTING THE PUMP

PROBLEM	PROBABLE CAUSE	SOLUTION
The pump has a reduced flow of water	A : delivery pipe partially obstructed B : suction pipe partially obstructed C : check valve obstructed D : suction of air	A-B-C : remove obstructions D : check the tightness of the seals and suction pipes
The pump is blocked with motor off	A : no electric power B : plug fitted incorrect C : faulty condenser D : pump in alarm because there is no water (automatic version) E : magnetohemic switch tripped F : leak in the hydraulic installation, overheating of water inside the pump, and tripping of the motor thermal protection switch. G : electronic board broken	A-B : check that the pump is connected to the power supply C : replace the condenser by qualified personnel D : reset the level of water to suck. Reset the correct water level inside the pump body E : reset the switch. If the switch trips again contact a qualified electrician. F : technical check of the hydraulic system and eliminate the leak. Wait for the pump to cool down and reconnect it to the power supply. G : call a qualified technician to replace the electronic board.
The pump does not supply water the motor is running	A : suction filter clogged B : air inside the pump body or in the inlet pipe C : pump not primed	A : remove the cloggings B : try restarting the pump several times in order to remove all the residual air C : reset the correct level of water inside the pump body and check the level of water to be sucked
The pump does not stop after it has been disconnected by the water supply	A : dirty filter or clogged filter (automatic version) B : leak in the pipes of hydraulic system	A : remove the obstructions B : eliminate the leak
The pump starts and stops with intermittence	A : small leak in the pipes B : the pump is broken C : closing valve too near to the delivery of the pump	A : eliminate the small leak B : contact your retailer C : take away, at least 1 mt., the closing valve from the delivery of the pump
The pump does not restart after the supply is reopened	A : pump in alarm due to lack of water B : pump in alarm due to the tripping of the motor protection device C : water head above 10 meters (higher cock) D : broken pressure gauge	A : reset the water level inside the pump and check the level of the water that has to be sucked B : check if the delivery pipe is clogged, wait for the pump to cool down and reconnect the pump to the power supply. C : replace the pump in the correct position to maintain the water head below 10 meters D : contact qualified technician

SPARE PARTS

Contact your steelpumps' closest retailer.

GUARANTEE

This electropump is guaranteed for two year (2 years) from the purchasing date, the guarantee covers the materials and manufacture defects.

Guarantee does not cover malfunctioning in case of: uncorrect installation, different uses and disrespectfull of instructions stated in STEELPUMPS' manual.

Guarantee is not valid for the pump partially or totally disassembled.

STEELPUMPS declines any liability for damages caused by inappropriate use of this electropump.

In case fixing up is necessary within the time limits of guarantee please contact exclusively our authorized retailer.

Shipping charges are due to the client.

In order to benefit from the guarantee, client must enclose a copy of herebelow certificate and the proof of purchasing.

PUMPS'S IDENTIFICATION

Pump's code	Room temperature	Serial number	Protection class
Hydraulic performances	CE	numeroserie 300 / 06	Electric insulation
Depth of immersion	Type X-JE 80	Jet Autogadescante	Condenser
Electric characteristics	v/min 10/50	Hm 40 - 15	Duty
	T. H2O +2° +37°C	T. ARIA +45°C	
	- 5 m	HP 0,8	Kw P1 1,1
	v 230	Hz 50	Vc 450
			motore giri/min 2.800
	MADE IN ITALY		Continuous duty
Origin of Manufacturer	Power and Consumption		