
Safety instructions



Before switching on the pump, the user should study the manual and follow the safety instructions listed in the compliance certificate booklet supplied with the pump.

Unpacking

- To keep your product in the clean condition in which it left our factory, we recommend unpacking the pump at the site of useage.
- It is advisable to keep the packaging.

Storage

- Our equipment can be stored without special precautions (ambient temperature between 5 and 40° C) **provided that the running-in procedure specified in the manual is observed for the first operation of the pump.**
- The seal kits must be stored away from heat and light (direct sunlight and ultra violet radiation) in order to prevent any hardening of the elastomer.

Installation Start-up

- The controllers are designed to guarantee safety under normal operating conditions (use in rack).
In specific cases of use on tables, make sure that no objects enter the ventilation openings or block the openings when handling the units.

Safety instructions

Installation**Start-up**

(continued)

- Certain controllers can be configured to start up automatically after a power cut. It is the user's responsibility to take all the precautions necessary to prevent the risks resulting from this type of operation.

- Our products are designed to comply with current EEC regulations. **Any modification of the product made by the user** is liable to cause non-compliance with these regulations, or reduce the EMC (electromagnetic compatibility) performance and the safety of the product. ALCATEL declines any responsibility for such modifications.

- Before performing any maintenance operations on the product, isolate the product from the various energy sources (electricity, compressed air, etc.).

- The EMC performance of the product is obtained when the installation complies with EMC rules.

In particular, **it is essential to:**

- use shielded cables and connections for interfaces,
- stabilise the power supply line with meshing from the power supply source to a distance of 3 m from the product inlet.

- When switching off an item of equipment containing loaded capacitors at over 60 VDC or 25 VAC, take precautions concerning the access to the connector pins (single-phase motors, equipment with mains filter, frequency converter, monitoring unit, etc.).

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Installation**Start-up**

(continued)

- Risk of toppling over: although compliance with EEC safety regulations is guaranteed (normal range $\pm 10^\circ$), it is recommended to take precautions against the risk of toppling over during handling, installation and operation.

- The performance and the operational safety of this product are guaranteed provided that it is used in normal operating conditions.

- The vacuum pump is also a compressor: incorrect use may be dangerous.

Study the user manual before starting up the pump.

- The access to the rotor of a turbomolecular pump with an unconnected intake is dangerous. Similarly, if the pump is not switched on, its rotor may be rotate by a primary pump which is in operation.

- Make sure that the parts or chambers connected to the intake of our pumps withstand a negative pressure of 1 bar in relation to the atmospheric pressure.

- The leaktightness of the products is guaranteed when they leave the factory for normal operating conditions. It is the user's responsibility to maintain the level of leaktightness particularly when pumping dangerous gases.