



# Elan Dryer XXL



# **ElanDRYER XXL**

## **Polymer Drying machine**

**Type: EDM-10KXXL**

*Please Note:*

*While SC ELAN Innovative Technologies SRL make every Attempt to ensure the correctness of this manual no guarantee of correctness is offered or implied. Specifications of EDM-10KXXL distillation machine and Software systems are subject to change without notice*

## 1. TECHNICAL SPECIFICATION

### Dimensions

- Drying unit size (W x D x H) 3000 x 2000 x 1500 mm
- Effective Drying size 6 x (W x D) 2350 x 1750 mm
- Total equipment (room) (W x D x H) 3500 x 3000 x 2000 mm
- Weight < 1000 kg
- Draw number 6

### Characteristics

- Mains supply voltage 380 V +/-10% ; 50 Hz
- Max power consumption 10 kW
- Ambient temperature 10 - 40 °C
- Noise level < 50 dB

**Note:** The mains power supply circuit of the distillation machine shall be independent from other consumers and shall be equipped with a short-circuit protection device

## 2. OPERATING CONDITIONS

### 2.1 Ambient conditions

- Ambient temperature 10 - 40 °C
- Maximum relative humidity 80 % at 20 °C
- Maximum altitude 2000 m
- Ambient without unusual fire and explosive hazards,  
no chemically active substances and no electrically conductive dust content
  
- Drying temperature 65 °C

### 3. IMAGES



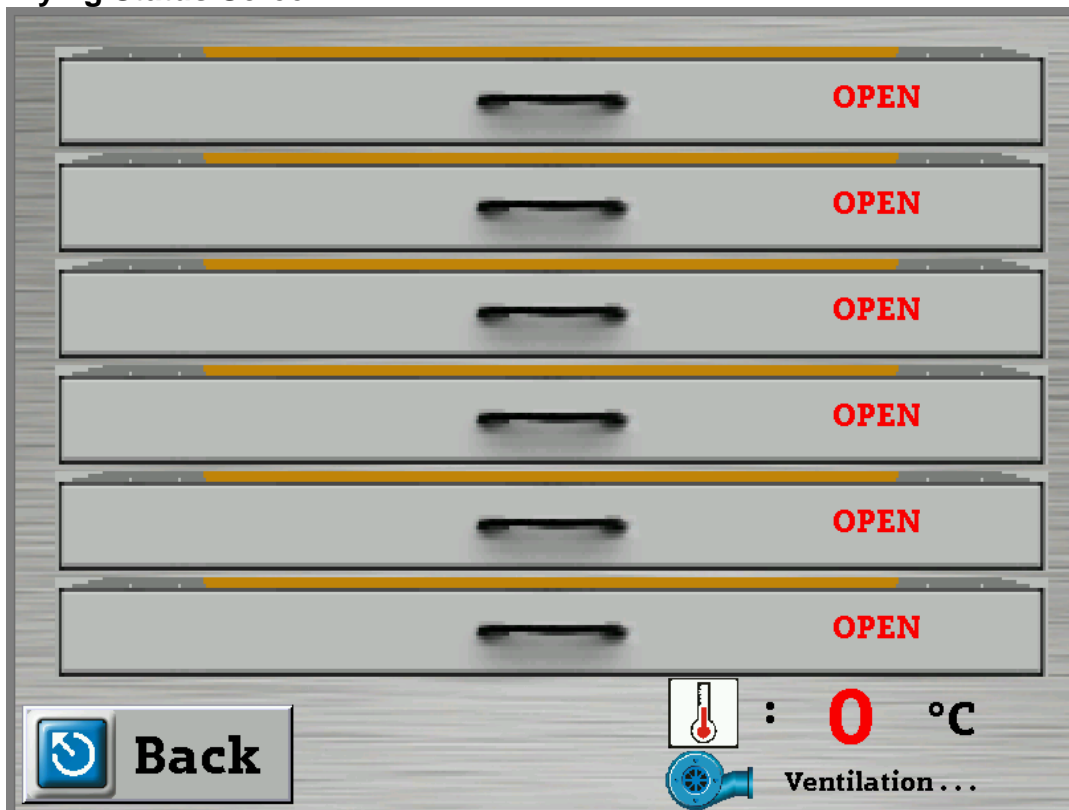


4. USER INTERFACE

Main Screen



Drying Status Screen





## 5. TRANSPORT AND STORAGE

**Important:**

The equipment shall be fixed carefully during transport to avoid mechanical damage. The equipment shall be handled using the lifting hooks specially built on.

Transport and storage conditions:

- temperature: - 25°C ... +40°C
- relative humidity: max 80% at 20°C  
max 90% at 25°C, for max. 2 days
- no chemically active environment

## 6. INSTALLATION, COMMISSIONING

The following steps shall be made during the installation:

- removing the fixing systems, during transport, for the hardening transformer
- connection to the three-phase mains using the prescribed type of cable or equivalent (see the electrical documentation)
- connection of the distillation machine to the protection earth

The specialists of the manufacturer shall make the machine commissioning. The customer's maintenance personnel participation at commissioning is recommended.

**Safety norms for low voltage installations shall be respected.**

The machine commissioning comprises the following steps:

- checking of correct installation
- checking of the mains supply voltage
- checking the machine operation in test mode
- distillation machine parameter adjustment
- monitoring of machine operation during the distillation process
- tuition of the operator and maintenance personnel

## 7. MAINTENANCE

The distillation machine needs the following periodic maintenance operations:

- checking the earth connections according to the safety norms
- dust cleaning inside and outside the cabinet by clean and dry pressurized air
- checking and fastening the screw connections

## 8. TROUBLESHOOTING

Troubleshooting needs:

- qualified personnel
- spare parts recommended by the manufacturer
- instruments:
  - digital multimeter
  - 2500 V insulation tester
- electrical documentation and user guide

Damaged components shall be replaced with the same type (or equivalent).



**Attention:**

Modifications of the rated values and setting values of the equipment could lead to harm of persons and damage of the machine.



**Attention:**

If electrical or mechanical part have been exchanged during the trouble shooting, always a function test in manual operation must take place.

Pay attention, that safety and fracture interlocking are OK (danger of destruction)



**Attention:**

If you need to enter the safety area of the equipment for the trouble shooting, in any case the „general safety directions“ have to be observed.

## 9. SAFETY PRECAUTIONS

### 9.1 Basic safety measures

In order to avoid accidents during normal use, maintenance and troubleshooting the following shall be respected:

- earth connections shall be checked periodically;
- the operator shall command the equipment standing on a clean and dry rubber sheet
- the mains power supply protection circuits shall be checked periodically
- direct contact with possibly hot surfaces shall be avoided
- Safety equipment must not be put out of operation



**Attention:**

After disconnection, some power components may still have hazardous voltage for 60s.



**Attention:**

Persons with cardiac pacemaker are not allowed to operate the system. When the inductor is switched on, they have to keep a safe distance of min 5m.

### 9.2 Basic safety measures during maintenance

- during maintenance and troubleshooting the low voltage protection norms shall be respected
- operator, maintenance and service personnel shall be properly instructed
- only service person may operate any troubleshooting inside the distillation machine

Before doing any maintenance work on the distillation machine:

- Switch off the distillation machine
- Wait 60 seconds after the main contactor is off, to assure complete discharging of the capacitors

### **9.3 Safety measures during matching the load circuit**

- Switch off the distillation machine using the main switch
- Wait 60 seconds after the main contactor is off, to assure complete discharging of the capacitors
- Be sure that all screws are tightened
- After switch on check the result only on the PLC's screen, do not make any changes during operation