

System's technical specifications

2.1 Machines

Machine: ETCHSTAR 650

Model: **ELO-CHEM ALKALINE SOLUTION**

Serial N°: EPC 107011

Fabrication year: 2007

Final use: Modular machine for Alkaline etching solution in the

manufacture of flat boards.

2.2 Diagrams and assembly drawings

Overall Dimensions DWG:

LEP 36112

Internal Cross Sections DWG:

LEP 36112

Other DWG:

2.3 Characteristics

Overall dimensions:

-	Length (mm):	7070
-	Maximum Width (mm):	2000
-	Maximum Height (mm):	1400

Electrical cabinet:

-	Length (mm):	1800
-	Width (mm):	37000
-	Height (mm):	1200

2.4 Installed energies and products

Electric power

Main line: Power circuit: Control circuit: tri-phase net with grounded neutral 400V ac - 50Hz - 32kW - 86A 24V dc

Compressed air

Pressure: Capacity (consumption): 6bars negligible





Caloric cooling energy

Etching Module

Caloric energy (kcal): Inlet heating fluid temperature (°C):

Minimum capacity (I/h): **Tin Strip Module**

Caloric energy (kcal): Inlet heating fluid temperature (°C):

Minimum capacity (I/h):

Note: EXOTHERMIC REACTION NON INCLUDED

5500

TO SECOND PROPERTY AND ADDRESS.

Max. 10, Min. 3

1000

3000

Max. 10, Min. 3

700

Air exhaust:

MAIN ETCHING CHAMBER

Type of connection: Capacity (m3/h):

Pressure (mmH2O):

CHEMICAL and RINSE MODULES

Type of connection: Capacity (m3/h):

Pressure (mmH2O):

DRYER MODULE

Type of connection: Capacity (m3/h):

Pressure (mmH2O):

Products:

Mains water pressure/capacity (bar-l/h): Demineralised water pressure/capacity (bar-l/h): Inflammable products:

Neutral gases: Acids a/o bases: smooth PVC pipe Øe160 mm from 200 to 400 in production with closed hatches (to be defined according with the process requirement) from 500 to 800 in maintenance with hatches open. from 50 to 100 (to be defined according with the process requirement)

smooth PVC pipe Øi50 mm from 200 to 400 (to be defined according with the process requirement) from 50 to 100 (to be defined according with the process requirement)

smooth SS pipe Øi110 mm from 500 to 600 (to be defined according with the process requirement) from 50 to 100 (to be defined according with the process requirement)

2÷3 bar, 600÷1200 l/h

N.A. N.A. N.A.

Alkaline etching solution, Nitric acid based tin stripper solution

16-04-07

EPC-M-107011

6





Toxic products:

See products used safety advice, normally contained in the it's data sheet.

Other:

N.A.

2.5 Characteristics of permissible panels

Dimensions

200 Minimum length (mm): 1000 Maximum length (mm): 100 Minimum width (mm): 650

Maximum width (mm):

0,1 (base material) - Minimum Thickness (mm):

Maximum Thickness(mm):

NOTE:

The above specified minimum thickness values are indicative, and depend on the type of boards to be processed. Correct values are determined only by practical testing.



