polaroid

POLAROID SCANNING
FLATBED PRINTER

INSTALLATION REQUIREMENTS

To help you get the best use out of this printer, we recommend that you follow the steps in installation, basic operations, and safety precautions.

Please read this user guide carefully before using the press for the first time, please keep this document in an accessible location for future reference.

If any questions arise during pre-installation and refurbishment, please refer to this manual for assistance or consult your sales representative who will put you in touch with a technical support team.

Selecting Printer Location Area

Before unpacking the printer, first choose a suitable area to place your equipment, this environment must meet the following requirements:

- The floor must be flat, avoid placing it in a place that contains corrosive gases or liquids, avoid dripping water due to condensation, steam, dust, flammable gases, explosive, floating particles such as dust and metals.
- The power supply is 220V and 380V±10% 60/50Hz, avoiding the same power supply as other high-power appliances or interference-related appliances to keep the power supply stable.
- The installation must have 3 phases, 1 line for neutral, one line for ground, and one line for voltage with a protective switch greater than 40A per line.
- Approximate consumption is 13.5KW
- The physical ground rod should be installed 1.5 m below the ground if there are problems of variations in electrical potential. As close to the printer as possible, saline preparation should be used if necessary.

- If the customer requires a UPS or uninterruptible power supply, consider a 15 KVA equipment for a backup equipment and 10KVA for a voltage regulator equipment, with 220V Input/Output, Regulation Range: +/-15% in the Input +/- 3% in the Output (information valid only for the printing machine)
- Avoid proximity to heat sources, static electricity, and strong magnetism to avoid interference with the data printer's transmission.
- The ambient temperature should be in the range of 5 °C - 40 °C maximum, ideal value of 23°C
- The ambient humidity should be in the range of 1%-75%. As maximum values, the ideal value is 18%
- Avoid direct sunlight as it affects the lifespan of your equipment.

Electrical Requirements

The electrical supply must be made up of 3 current lines connected to a load center with a 40A thermo-magnetic switch this must be built by 3 lines, Neutral line and physical ground.

A secondary power supply is required for the voltage of 380V AC this must be formed by 3 current lines connected a load center with a thermo-magnetic switch of 100A this must be built by 3 lines, Neutral line and physical ground.

The printer's power connections are located on the right side taking the front view of the equipment, this observation is made so that the customer considers leaving the electrical power outlets as close as possible to the equipment.

> **Note:** It is important to make it known that from the main switch to the area where the equipment is going to be installed, it must have a special gauge considering the distance.

That is to say that you cannot select a gauge between 8AWG or 6AWG, for distances greater than 10m, you should consider making the power line with a larger gauge between 2AWG or 1AWG.

Similarly, if the characteristics of the installation change, you should consider installing a protection greater than 100A.

The power supply from the charging center or from the switch can be with 6AWG gauge if it does not exceed 3m of distances, but it is important that attention is paid to the main power supply.

This calculation must be made with the advice of a professional or your authorized electric service provider.

Equipment Specifications

Measurements: 5m long x 1.9m high x 4m wide
Consumption: 13.5 KW
Suction Turbine Consumption: 7.5 HP 5.5KW 50Hz 380V 3F 11.5A
Weight: 3000Kg (Printer Body)

Annex 1

Gauge Selection Guide

Amperage supported by copper cables			
Temperature level	**60°C**	**75°C**	**90°C**
Type of insulator	**TW**	**RHW, THW, THWN**	**THHN, XHHW-2, THWN-2**
Cable Size / Gauge	Supported amperage		
14 AWG	15 A	15 A	15 A
12 AWG	20 A	20 A	20 A
10 AWG	30 A	30 A	30 A
8 AWG	40 A	50 A	55 A
6 AWG	55 A	65 A	75 A
4 AWG	70 A	85 A	95 A
3 AWG	85 A	100 A	115 A
2 AWG	95 A	115 A	130 A
1 AWG	110 A	130 A	145 A
1/0 AWG	125 A	150 A	170 A
2/0 AWG	145 A	175 A	195 A
3/0 AWG	165 A	200 A	225 A
4/0 AWG	195 A	230 A	260 A

60°C	
SPT	
Cable Size / Gauge	Supported amperage
20 AWG	2 A
18 AWG	10 A
16 AWG	13 A
14 AWG	18 A
12 AWG	25 A

Transformer
A 50 KVA transformer is required, 220V input 380V output. 50Hz
*Please consult with your trusted/specialized electrical advisor.

Notes

- A dry-type low-voltage transformer, Delta to Star connection is recommended.
- The transformer power supply must be calculated with the data provided in this document and must have switches at both the input and output.
- The conductor gauge is different for the input power to your transformer as it is for the output.
- Recommendations only for Mexico.

Safety Recommendations
Use of safety footwear with a reinforced steel toe at all times.

Information
For any questions or clarifications we are at your service on the phones of our office or with your sales representative.

Annex 2

Bed suction turbines

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