The Ionizer

Application Note – 10100105 Rev. A

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Prepared by the Application Department

Safety Procedures

Before reading this Application Note, please refer to the section on Safety Procedures in the Barak User's Manual.

About this Application Note

This Application Note describes how to use the IONIZER.

About the Ionizer

Using the optional Ionizer, will improve the printing quality on PE and rigid substrates.

The Ionizer option is designed to reduce the over-spray phenomenon and 'clouds' which is caused by static electricity.

Using the Ionizer

The IONIZER CONTROL UNIT is assembled on the HEAD CARRIAGE by an authorized Matan's engineer. Its power supply unit is mounted on the rear top of the CARRIAGE (Figure 1). There are two IONIZER units – one on each side of the CARRIAGE (Figures 2 and 3).

Turn the IONIZER on by switching the ON/OFF button on the power supply unit (Figure 4).

You should clean the IONIZER with a toothbrush and then with alcohol, when required.

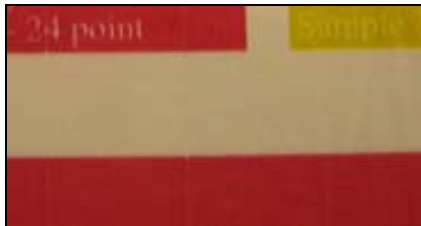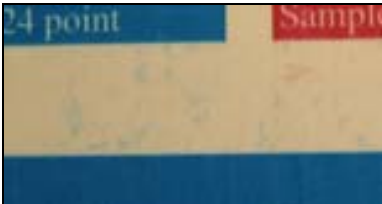**Figure 1: Power Supply**   **Figure 2: Left Ionizer Unit**

Figure 3: Right Ionizer Unit   **Figure 4: ON/OFF Switch**

When to use the Ionizer

When printing on media that are charged with static electricity (PE, Foamed PVC, etc.), the electrically charged areas on the media draws away the ink. This causes unwanted printed 'clouds' (as seen on the left column below, 'Printing without Ionizer'). To avoid this phenomenon, turn on the IONIZER before you start to print. This will discharge any static electricity on the media and will allow a 'cloud-free' print (as seen on the right column, 'Printing with an Ionizer').

Printing without an Ionizer	Printing with an Ionizer

	When printing on regular substrate that is not charged with static electricity, turn the Ionizer off.

Document History

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