

Ionix Static Eliminator



Installation of Ionix Magnet Drawer Static Eliminator Installation is same for hoppers and mixers

Overview installation considerations:

Static elimination in magnet drawers and hoppers is accomplished by compressed air run through the Ionix Static Eliminator Cartridge and delivered into the magnet drawer or hopper.

The Magnet Drawer Static Eliminator is installed in the face of the magnet drawer of the plastic processing machine. It can also be installed in the side of a hopper. The Ionix Static Eliminator Cartridge is installed in the air line supplying air to the air diffuser. The air regulator is installed in the house air hose going to the Ionix Static Eliminator Cartridge.

Operational sequence of parts installation:

The flow of house compressed air going to the Ionix Static Eliminator is as follows:

1. House air to pressure regulator to Ionix Static Eliminator Cartridge.
3. Hose continues from Ionix Static Eliminator Cartridge to magnet drawer or hopper air diffuser.

If you want to increase the static elimination in your process, add another Ionix Static Eliminator IN SERIES in the air hose. This will DOUBLE the static elimination delivered to your process.

Correct sequence:

House air -> Air Pressure Regulator -> Ionix Cartridge -> Drawer/hopper air diffuser

IMPORTANT:

In order to prevent over-pressurization of the Ionix Static Eliminator Cartridge, house compressed air must first go through the air pressure regulator!

Installation guidelines:

Ionix Static Eliminator Cartridge: You can install the Ionix Static Eliminator Cartridge in the air hose going to the air diffuser at any point convenient to you and out of the way of operations. There is no directional flow (ie no input or output side). There is no limit to the length of hose from the Ionix Static Eliminator Cartridge to the diffuser. Each diffuser requires its own Ionix Static Eliminator Cartridge.

In air hose regulator: Install this only if your house air drop DOES NOT have a pressure regulator. If it does have a pressure regulator there is no need to have an inline regulator.

You can install the in air hose regulator at any convenient point PROVIDED IT IS INSTALLED BETWEEN THE IONIX STATIC ELIMINATOR CARTRIDGE and HOUSE AIR SUPPLY!

Installation in magnet drawer:

The only critical installation step is the positioning of the air diffuser through the magnet drawer face and drilling the hole for it. This assumes a ½” thick plastic face. Adjust these instructions for different face thicknesses.

Choose a position for the air diffuser that is

1. In the center of the drawer and
2. Is UNDER a magnet bar.

Positioning the air diffuser under a magnet drawer will reduce wear of the resin passing by the air diffuser and extend its life.

Before you drill the hole in the mag drawer face, be sure to allow enough area around the hole for the width of the air diffuser!

3. Drill a 5/8” hole HALFWAY through the plastic and STOP. Then using the same center hole drill a 9/16” hole through the plastic. This allows the ¼” NPT hose fitting to be countersunk into the plastic face.
4. Thread the air diffuser onto the hose fitting.
5. Use a glue to fix the tightened air diffuser to the air hose end to prevent the air diffuser from coming off the hose end.
6. Continue the air hose to the Ionix Static Eliminator and hose clamp the air hose to the Ionix. Continue the air hose to your regulated air source.
7. Installation is complete.

Installation in dryer hoppers or mixing hoppers:

1. The critical installation concern is the positioning of the air diffuser in the hopper. Place it as low as possible in the base of the hopper wall without obstructing the bottom emptying hole.
2. Drill a hole to insert a ¼” NPT air hose into the hopper. Using washers or spacers on the OUTSIDE of the hopper, adjust the height of the thread so the air diffuser when completely threaded on air hose end is FLUSH with the hopper wall.
3. Use a glue to fix the tightened air diffuser to the air hose end to prevent the air diffuser from coming off the hose end.
4. Continue the air hose to the Ionix Static Eliminator and hose clamp the air hose to the Ionix. Continue the air hose to your regulated air source.
5. Installation is complete.

Installation in conveying lines:

1. Installation is identical to dryer hoppers or mixing hoppers with this addition: Install the air diffuser upstream in the conveying tube but as close to the static blockage as possible.
2. To minimize wear on the air diffuser due the the passing material. Mount the air diffuser on the **TOP** of the conveying pipe. This will extend the life of the diffuser.

Operation of Ionix Static Eliminator:

Ionix eliminates static inside the magnet drawer and hopper by delivering Ionix treated house air to the drawer or hopper. To accomplish this, you adjust the house air flow into the Ionix Static Eliminator by adjusting the pressure on air hose regulator to a setting that provides the minimum air flow into your drawer/hopper while eliminating bridging and colorant separation but doesn't interfere with resin flow.

Since all plastics and colorants have different static characteristics and all processing machines have different configurations, there is no one setting that works for everyone every time. You will need to determine by trial and error which air pressure setting best works for you. However, you want to use as little air pressure as possible. Start with low pressure and slowly increase pressure until evidence of static is gone.

For maximum effectiveness in hoppers, you should seek to trap the Ionix air in your hopper. If the hopper has a lid, use it. The lid does not need to be air tight fit to the hopper. It just needs to help hold the Ionix treated air inside the hopper. If the hopper doesn't have a lid, anything that can be used as a lid (even if it is a loose fit) will improve the results of the Ionix treated air in eliminating static in your hopper.

Ionix can be left on even when the machine is not running. You cannot "over – deionize" your machine or the resin/colorant. If Ionix is left on while the machine is not running, Ionix air will help "de-ionize" your conveying system as far as the Ionix air penetrates into it. Therefore, it is in your best interest to leave it on all the time.

For technical support please call 800-246-1784.

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Warranty

Users are responsible to test Ionix Static Eliminators for effective and safe use in their applications. If the Ionix Static Eliminator should prove defective in workmanship or material 6 months from date of installation, it will be replaced or refunded by Ionix. Such replacement or refund shall be the sole remedy of the purchaser. Ionix shall not be liable for any loss or damages, incidental, direct or consequential, arising out of the use of, or inability to use this product. This warranty does not cover any damage or defect due to accident, misuse, abuse or neglect.

This warranty is void if any liquids are flushed or run through the Ionix Static Eliminator. This warranty is void if the Ionix Static Eliminator is installed on any equipment other than that which it specifically designed for. Some states and territories do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights. You may also have other rights that vary from state to state in the United States.

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