



Cyclone

Dust Collection & Separation

INSTALLATION & OPERATION MANUAL



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INTRODUCTION

You have purchased a cyclone dust collection / separator system for your intended application in your facility. The effective functioning of this system requires proper installation, use, and maintenance of the cyclone and all required components. Please follow ALL of the instructions listed in this manual. Please call Ibis International if you have questions or concerns about the system or this manual.

This manual is not intended to replace or supersede any OSHA, NEC, NFPA or other associated codes and regulations.

Please read this entire manual before beginning to install your system. Keep this manual as a reference for proper operation and maintenance of your system.

THEORY OF OPERATION

Our cyclone dust collector has been updated to provide maximum efficiency when removing dust from an air stream. The air is brought in to the top side inlet of the cyclone where the air forms a vortex. This sends the heavy debris and particles down to an airlock or collector. The filtered air is pushed by the vortex to release out of the top of the cyclone. This air can be sent to other filtration devices or back into the production system.

FIRE PROTECTION

The standard cyclone dust collector is not intended to handle metal dust. This unit does not come with any fire protection or detection devices. The standard system is designed to handle cellulose fiber and/or plastic materials. Proper maintenance, including routine cleaning, is critical to the safe use of the system. Spark management (traps, detectors, fire suppression) can be added to the system as required.

Your local fire marshal or building inspector can provide local code requirements. If you do not purchase a suppression system from Ibis International, contact a licensed fire protection system provider in your area for this equipment. If you have any

further questions or require additional assistance in procuring this equipment, please contact Ibis International.

INSTALLATION

NOTE: The cyclone unit will come packed on a pallet with the stand sub-assembly, the air-lock, and hardware.

Inspecting the unit before installation is recommended to identify any problems due to shipping damaged or missing parts.

1. Ibis International recommends that the site be:

a) Flooring - Non-combustible, flat within ¼", concrete preferred, 6" thick min.

b) Spacing - The cyclone collector can be placed against a wall, but allowing some spacing will aid in routine cleaning and servicing.

c) Sparks - Do not locate the cyclone unit within 20-feet of a machine or task that creates sparks (metalworking, welding, pilot lights, and open flames).

d) Recommended personal protective gear for the installation process includes leather gloves, steel-toed shoes, hard hats, ANSI-approved safety glasses with side shields, long pants (not shorts) and long-sleeved shirts. Jewelry and other similar items that can snag or catch should be kept to a minimum while installing or servicing this system.

2. Refer to the original shop drawing created during the quoting process if this is a complete system installation with ductwork and other items provided by Ibis International.

3. Locate the lower part of dust collector and verify the floor for flatness and access.

4. Attach the legs to the cyclone base stand.

5. Anchor all feet to the floor. Hardware not provided.

6. Install the cyclone on the support stand with supplied hardware.
7. Install rotary air (if applicable) with supplied hardware and caulk all seams. A licensed electrical contractor should complete the wiring to a suitable power source.
8. Install all ductwork, and caulk all seams.

MAINTENANCE

1. Turn off the power and use standard lockout/tag out procedures when servicing this system.
2. Removal of any guards, covers, safety devices, or using the system in a manner it is not designed for voids all manufacturer's warranties and responsibilities.
3. Do not remove or bypass any safety or electrical devices.
4. Caution when modifying the ductwork. Any changes can prevent proper feeding and performance of the system.
5. Check the system routinely for:
 - a. Damage to ducting
 - b. Air leaks in ducting
 - c. Accumulation of dust/chips/fines in ducting
 - d. Damage to dust collector
 - e. Bolts/nuts on the legs and anchors
 - f. Damage or air leaks to seams
 - g. Damage or air leaks in flex-hose to drum
 - h. Unusual sounds from air-lock motor
6. Empty the drum(s) when three-fourths (75%) full. Do not run the system without the drum in place and tightly sealed. Wear a dust mask to prevent irritation.
7. Make sure that the system is turned off during emptying.
8. Call our Customer Service staff at (1-706-654-3232) or email us at sales@ibis-usa.com if there are problems or questions.

SPARE PARTS

When ordering spare parts, provide complete information to include:

1. Serial Plate Number on machine.
2. Description of part including size.
3. Quantity.
4. Address and method of shipment.
5. Purchase Order number.

NOTES

State and local codes vary widely. The dust collector system is an integral part of the overall safety and health practices of any facility. The system should be installed to conform to your local and state codes, including all electrical, fire and ducting components.

For questions or problems related to your Ibis equipment, call our Customer Service Department at (1-706-654-3232) or email us at sales@ibis-usa.com. Please have your order number available when you call.

HAVE A PROBLEM? NEED PARTS OR SERVICE?

CONTACT – IBIS INTERNATIONAL INC.

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