



## IRD Filters

Models 260 through 460

## Installation and Operation Manual

Installation, Operation, and Service Information



460-IRD (shown with optional shaker)

This manual is property of the owner. Leave with the collector when set-up and start-up are complete. Donaldson Company reserves the right to change design and specifications without prior notice.

Illustrations are for reference only as actual product may vary.



**This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.**

 **WARNING**

Process owners/operators have important responsibilities relating to combustible hazards. Process owners/operators must determine whether their process creates combustible dust, fume, or mist. If combustible dust, fume, or mist is generated, process owners/operators should at a minimum:

- Comply with all applicable codes and standards. Among other considerations, current NFPA standards require owners/operators whose processes involve potentially combustible materials to have a current Hazard Analysis, which can serve as the foundation for their process hazard mitigation strategies.
- Prevent all ignition sources from entering any dust collection equipment.
- Design, select, and implement fire and explosion mitigation, suppression, and isolation strategies that are appropriate for the risks associated with their application.
- Develop and implement maintenance work practices to maintain a safe operating environment, ensuring that combustible dust, fume, or mist does not accumulate within the plant.

Donaldson recommends process owners/operators consult with experts to insure each of these responsibilities are met.

As a manufacturer and supplier of Industrial Filtration Products, Donaldson can assist process owners/operators in the selection of filtration technologies. However, process owners/operators retain all responsibility for the suitability of fire and explosion hazard mitigation, suppression, and isolation strategies. Donaldson assumes no responsibility or liability for the suitability of any fire and/or explosion mitigation strategy, or any items incorporated into a collector as part of an owner/operators hazard mitigation strategy.

Improper operation of a dust control system may contribute to conditions in the work area or facility that could result in severe personal injury and product or property damage. Check that all collection equipment is properly selected and sized for the intended use.

**DO NOT** operate this equipment until you have read and understand the instruction warnings in the Installation and Operations Manual. For a replacement manual, contact Donaldson Torit.

This manual contains specific precautionary statements relative to worker safety. Read thoroughly and comply as directed. Discuss the use and application of this equipment with a Donaldson Torit representative. Instruct all personnel on safe use and maintenance procedures.

## Contents

Description.....	1	Fan Installation .....	9
Purpose and Intended Use .....	1	Optional Shaker Timer Installation.....	10
Operation.....	2	Electrical Wiring.....	10
Inspection on Arrival.....	3	Operation .....	11
Installation Codes and Procedures .....	3	Auto Shaker Adjustments .....	11
Installation.....	3	Dust Collection Bag Installation.....	12
Foundations or Support Framing .....	3	Vane Adjustment.....	13
Collector Location .....	4	Preliminary Start-Up Check .....	14
Site Selection .....	4	Maintenance Information.....	15
Rigging Instructions.....	4	Operational Checklist .....	15
Hoisting Information .....	4	Filter Removal and Installation.....	15
Provisional Anchor Bolt Recommendations.....	5	Maintenance.....	16
Electrical Wiring.....	5	Troubleshooting.....	17
Plenum to Leg Extension Assembly.....	6	Collector Information.....	18
Filter Bag Installation .....	7	Service Notes.....	18
Filter Snap Band Collar Installation .....	7		
Optional Shaker Motor to Frame Assembly .....	8		



**DANGER**

**DANGER** indicates a hazardous situation which, if not avoided, will result in death or serious injury.



**WARNING**

**WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury.



**CAUTION**

**CAUTION**, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

**NOTICE**

**NOTICE** is used to address practices not related to personal injury that may result in damage to equipment.

## Description

The IRD dust collector is an economical solution for dust control in small woodshops or work cells in larger operations. The exclusive down flow design helps to separate the particulate matter from the air stream allowing for longer time between bag cleaning. The large heavy duty 1750 rpm fan wheels provide high air flow with quiet operation. Models with “-R” suffix are designed for router applications and employ 3450 rpm fans where higher static pressures are required.

## Purpose and Intended Use

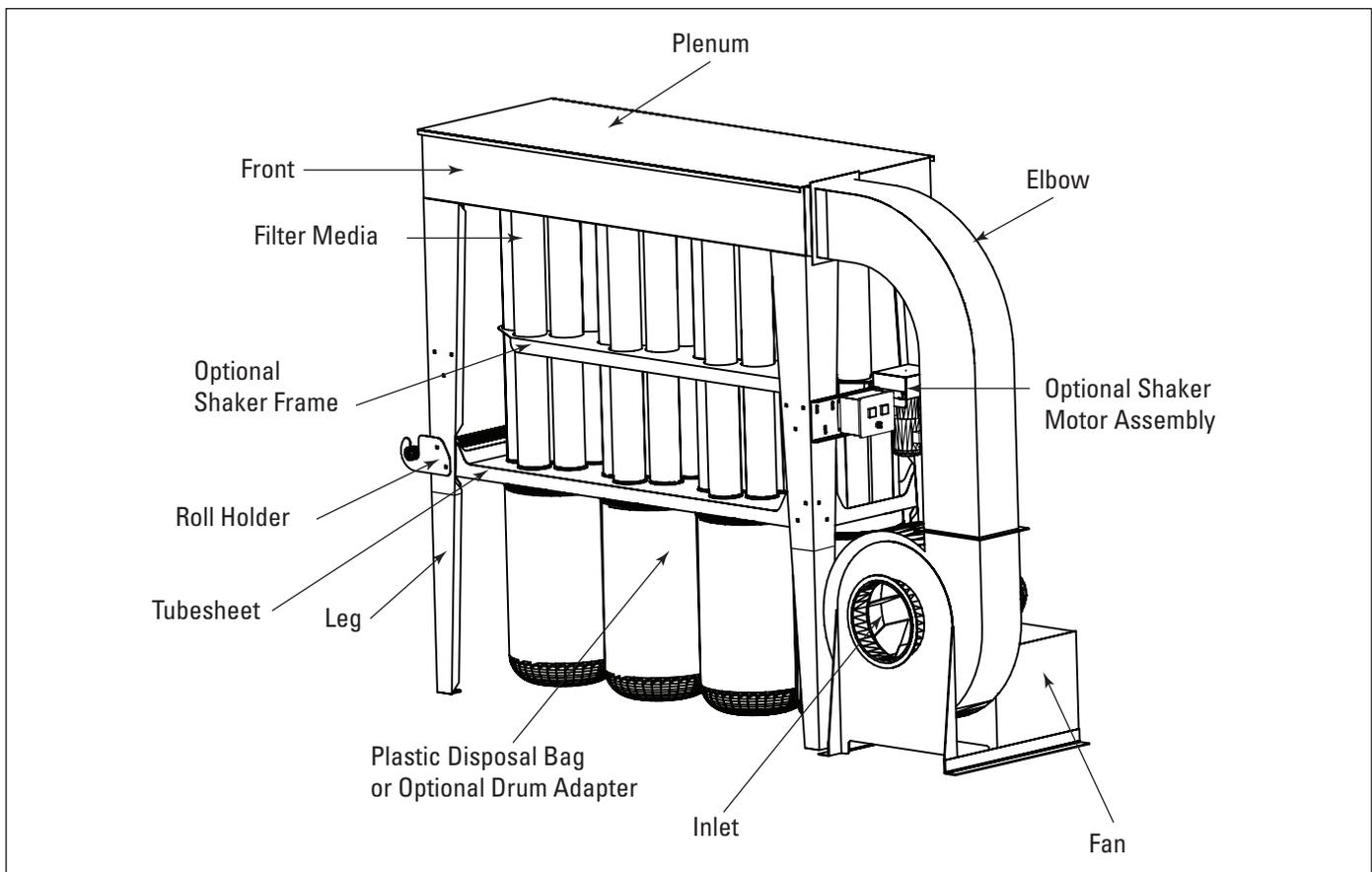


### WARNING

Misuse or modification may result in severe personal injury and/or property damage.

Do not misuse or modify.

IRD dust collectors are primarily intended for wood shop use or for non hygroscopic nuisance dusts. Typical applications include sawdust collection on table saws, sanders, and other woodworking equipment. CNC Routers typically have large pressure drops and may require the R models.



### WARNING

Combustible materials such as buffing lint, paper, wood, metal dusts, weld fume, or flammable coolants or solvents represent potential fire and/or explosion hazards. Use special care when selecting, installing, and operating all dust, fume, or mist collection equipment when such combustible materials may be present in order to protect workers and property from serious injury or damage due to a fire and/or explosion.

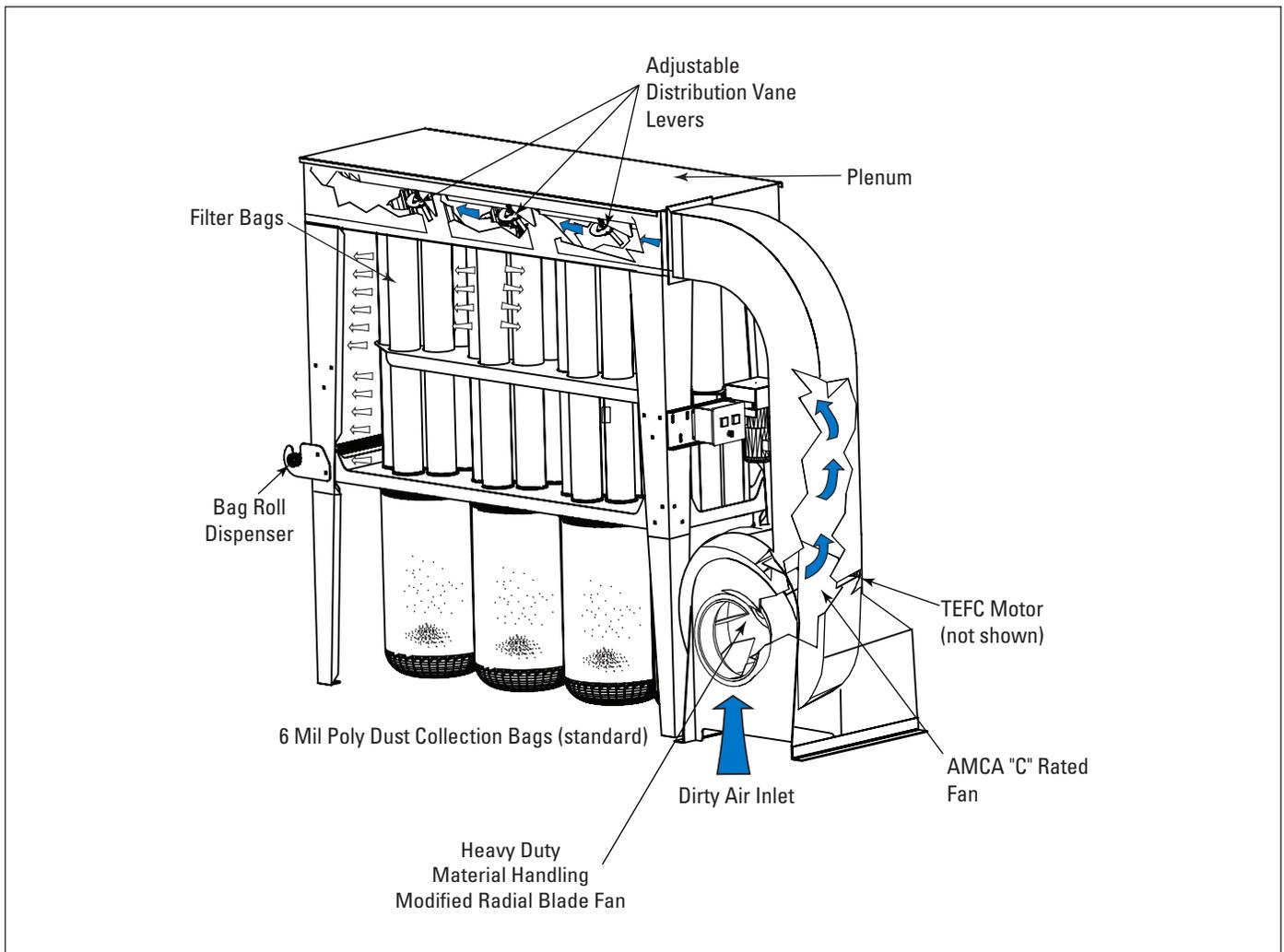
Consult and comply with all National and Local Codes related to fire and/or explosion properties of combustible materials when determining the location and operation of all dust, fume, or mist collection equipment.

Standard Donaldson Torit equipment is not equipped with fire extinguishing or explosion protection systems.

## Operation

During normal operation dust laden air enters the collector through the fan inlet. Air and entrained dust are directed upward through the elbow and into the plenum. In the plenum, the air and entrained dust are divided among the cells by adjustable distribution vanes. In the cell, the air and entrained dust travels downward through the filter media. Air passes through the media while the finer entrained dust is collected on the inner surface of the bags. Larger entrained dust particles pass directly to the collection bags.

Filter bags are cleaned by manually shaking bags when the collector is turned off.



Collector Operation

## Inspection on Arrival

1. Inspect collector upon delivery.
2. Report any damage to the delivery carrier.
3. Request a written inspection report from the Claims Inspector to substantiate any damage claim.
4. File claims with the delivery carrier.
5. Compare collector received with description of product ordered.
6. Report incomplete shipments to the delivery carrier and your Donaldson Torit representative.
7. Remove crates and shipping straps. Remove loose components and accessory packages before lifting collector from truck.
8. Check for hardware that may have loosened during shipping.
9. Use caution removing temporary covers.

## Installation Codes and Procedures



Codes may regulate recirculating filtered air in your facility.

Consult with the appropriate authorities having jurisdiction to ensure compliance with all national and local codes regarding recirculating filtered air.

Safe and efficient operation of the collector depends on proper installation.

Authorities with jurisdiction should be consulted before installing to verify local codes and installation procedures. In the absence of such codes, install collector according to the National Electric Code, NFPA No. 70-latest edition and NFPA 91 (NFPA 654 if combustible dust is present).

A qualified installation and service agent must complete installation and service of this equipment.

All shipping materials, including shipping covers, must be removed from the collector prior to or during collector installation.

### NOTICE

Failure to remove shipping materials from the collector will compromise collector performance.

Inspect collector to ensure all hardware is properly installed and tight prior to operating collector.

## Installation



Use proper equipment and adopt all safety precautions needed for servicing equipment.

Electrical service or maintenance work must be performed by a qualified electrician and comply with all applicable national and local codes.

Turn power off and lock out all power before performing service or maintenance work.

Do not install in classified hazardous atmospheres without an enclosure rated for the application.



Site selection must account for wind, seismic zone, and other load conditions when selecting the location for collectors.

Codes may regulate acceptable locations for installing dust collectors. Consult with the appropriate authorities having jurisdiction to ensure compliance with all national and local codes regarding mist collector installation.

Collectors must be anchored in a manner consistent with local code requirements. Anchors must be sufficient to support dead, live, seismic, and other anticipated loads.

Consult a qualified engineer for final selection of anchorage.

The collector is suitable for indoor installations. Reference the Rating and Specification Information.

## Foundations or Support Framing

Prepare the foundation or support framing in the selected location. Foundation or support framing must comply with local code requirements and may require engineering.

Foundation and support framing must be capable of supporting dead, live, wind, seismic and other applicable loads. Consult a qualified engineer for final selection of foundation or support framing.

## Collector Location

### WARNING

Donaldson Torit equipment is not designed to support site installed ducts, interconnecting piping, or electrical services. All ducts, piping, or electrical services must be adequately supported to prevent severe personal injury and/or property damage.

When hazardous conditions or materials are present, consult with local authorities for the proper location of the collector.

### CAUTION

Dust collection equipment may reach peak sound pressure levels above 80 dB (A). Noise levels should be considered when selecting collector location.

Locate the collector to ensure easy access to electrical connections, to simplify solids collection container handling and routine maintenance, and to ensure the straightest inlet and outlet ducts.

Provide clearance from heat sources and avoid any interference with utilities when selecting the location.

## Site Selection

This collector can be located on a foundation or structural framing.

## Rigging Instructions

### Suggested Tools & Equipment

Clevis Pins and Clamps	Lifting Slings
Crane or Forklift	Pipe Sealant
Drift Pins	Pipe Wrenches
Drill and Drill Bits	Screwdrivers
End Wrenches	Socket Wrenches
Adjustable Wrench	Spreader Bars
Torque Wrench (inch/lbs, 9/16-in Socket)	

## Hoisting Information

### WARNING

Failure to lift the collector correctly can result in severe personal injury and/or property damage.

Use appropriate lifting equipment and adopt all safety precautions needed for moving and handling the equipment.

A crane or forklift is recommended for unloading, assembly, and installation of the collector.

Location must be clear of all obstructions, such as utility lines or roof overhang.

Use all lifting points provided.

Use clevis connectors, not hooks, on lifting slings.

Use spreader bars to prevent damage to collector's casing.

Check the Specification Control drawing for weight and dimensions of the collector and components to ensure adequate crane capacity.

Allow only qualified crane or forklift operators to lift the equipment.

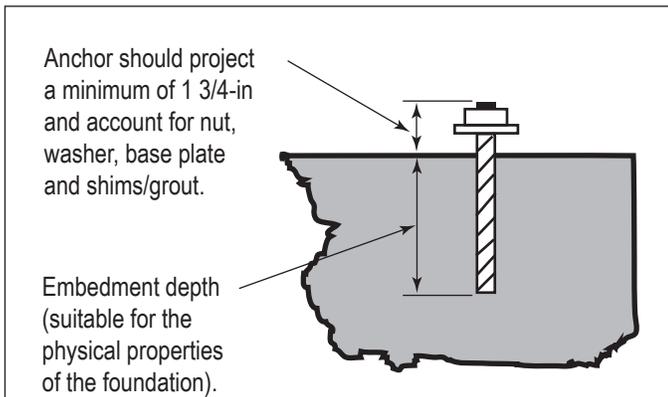
Refer to applicable OSHA regulations and local codes when using cranes, forklifts, and other lifting equipment.

Lift collector and accessories separately and assemble after collector is in place.

Use drift pins to align holes in section flanges during assembly.

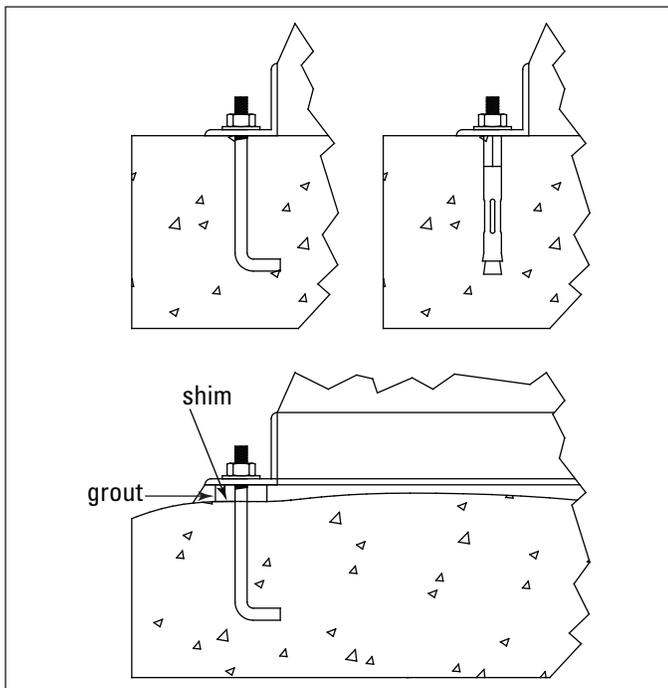
### Provisional Anchor Bolt Recommendations

1. Consider Hilti HIT-HY 200 Anchor System or equivalent. Quantity of anchor bolts should match the number of holes provided in the base plates.
2. Anchor diameter is typically 1/8-in less than baseplate hole diameter.
3. Corrosive environment or outdoor installation may require stainless steel anchors.



Typical Foundation Anchor

Anchor the filter and fan collectors to the floor with appropriate anchor bolts. Fan base angles are adjustable allowing for proper alignment of filter and fan. Shims must be used on uneven surfaces to prevent distortion.



### Electrical Wiring



Electrical installation, service, or maintenance work must be performed by a qualified electrician and comply with all applicable national and local codes.

Turn power off and lock out all power before performing service or maintenance work.

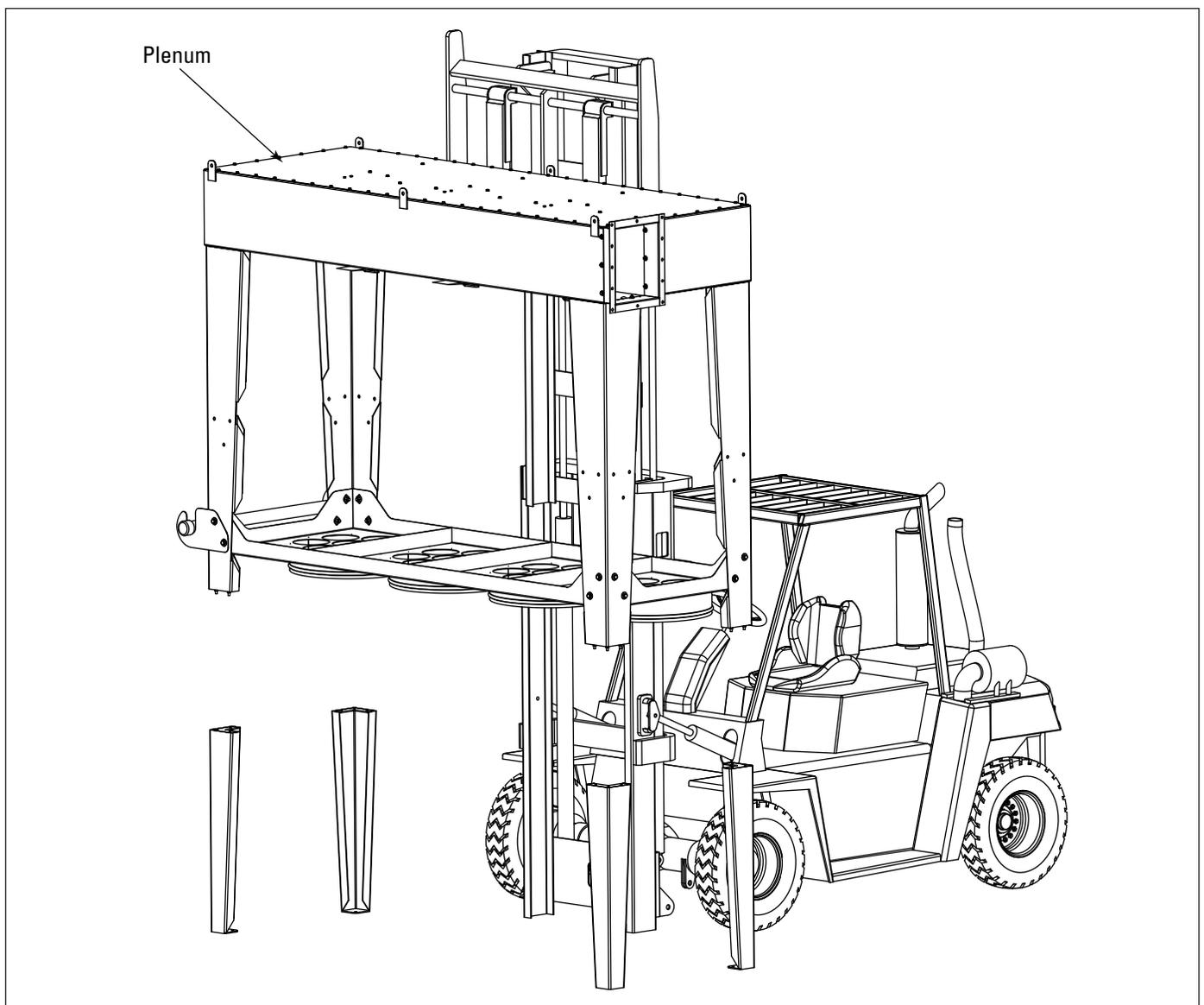
Do not install in classified hazardous atmospheres without an enclosure rated for the application.

All electrical wiring and connections, including electrical grounding, should be made in accordance with the National Electric Code (NFPA No. 70-latest edition).

Check local ordinances for additional requirements that apply.

## Plenum to Leg Extension Assembly

1. Lift IRD plenum onto leg extension with forklift ensuring that the forks are spread to stabilize the load. Be careful not to hit the distribution vane levers.
2. Attach leg extension to top leg weldment using supplied 3/8-16 x 1-1/4 hex bolts.
3. Tighten nuts with ratchet.



## Filter Bag Installation

### NOTICE

If collector is ordered with optional shaker, filter bags will have a snap band cuff in the middle in addition to the top and bottom.

1. Loosen the lower tubesheet bolts and raise the tubesheet to the top slot to allow bags to be installed. Retighten bolts to keep lower tubesheet in top slots. Refer to illustration below.
2. In the top tubesheet, install one filter bag into center hole of each end cell in plenum.

Note: Refer to Filter Snap Band Collar Installation for installing filters into tubesheets.

For collectors with Optional Shaker Tray only: pass other end of bag through corresponding shaker frame hole.

Snap middle band of bag into shaker frame.

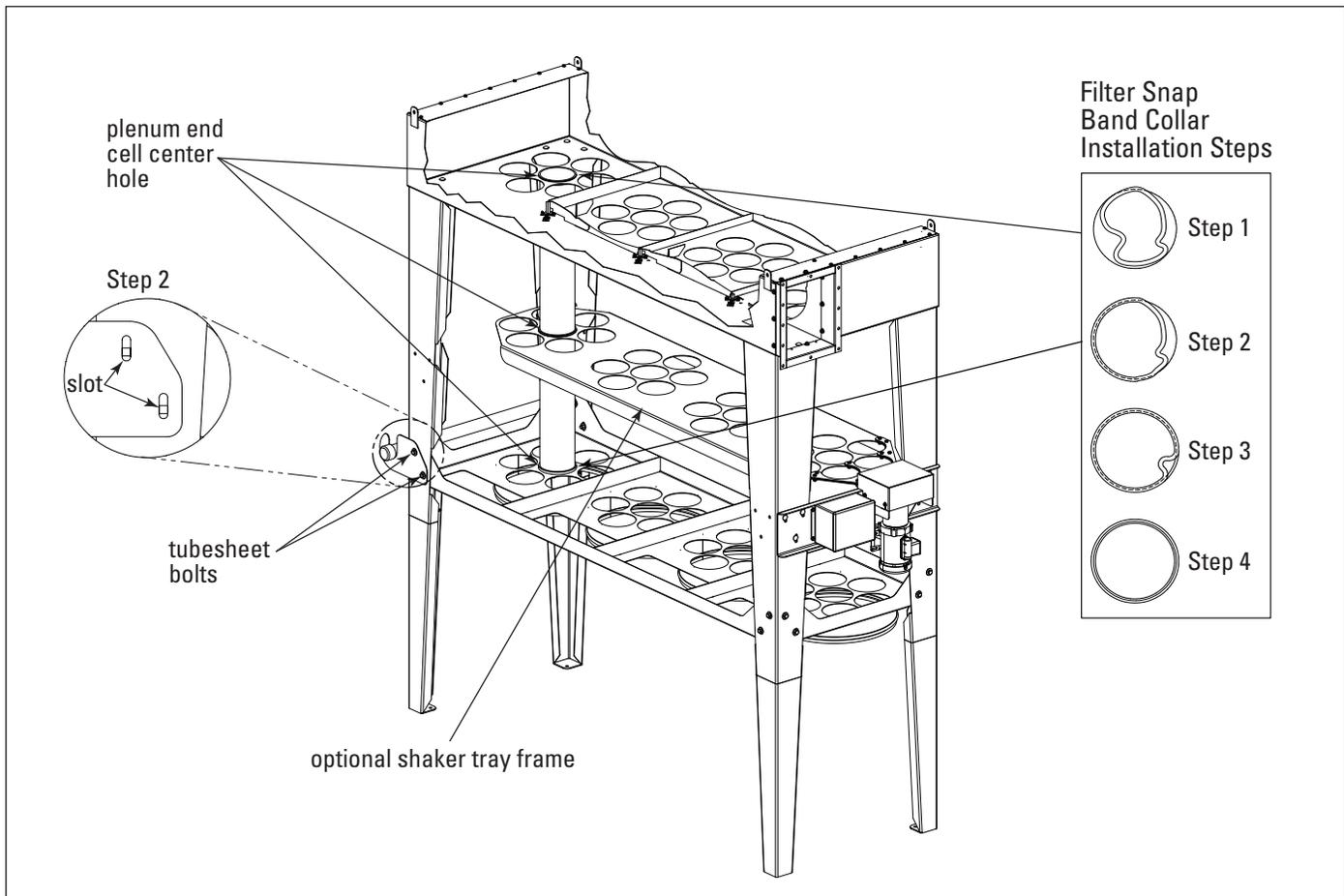
3. Snap bottom end of bag into the lower tubesheet.

4. Install remaining bags per previous steps.
5. Loosen tubesheet to leg bolts and allow tubesheet to lower, tightening bags.
6. Tighten bolts.

## Filter Snap Band Collar Installation

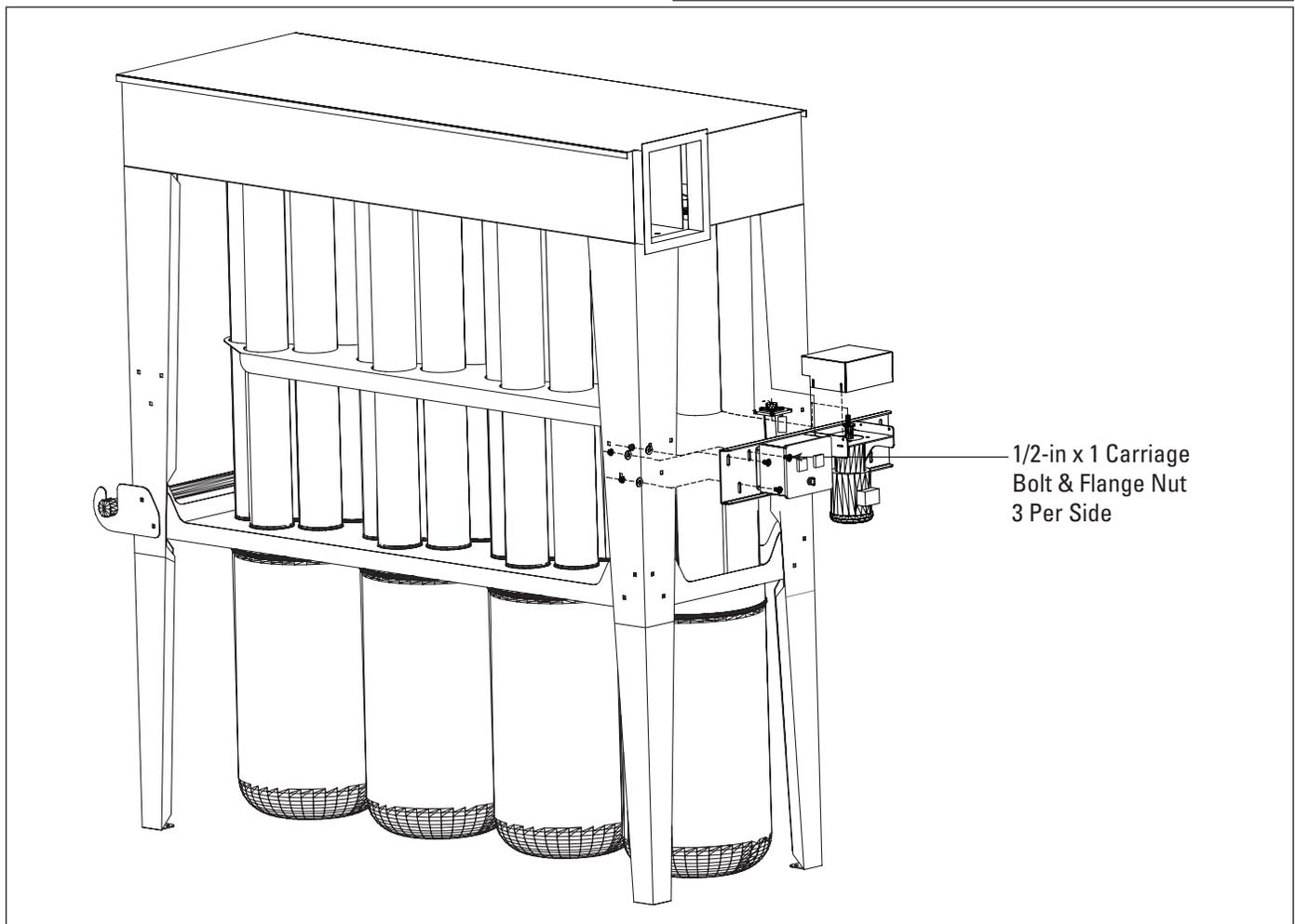
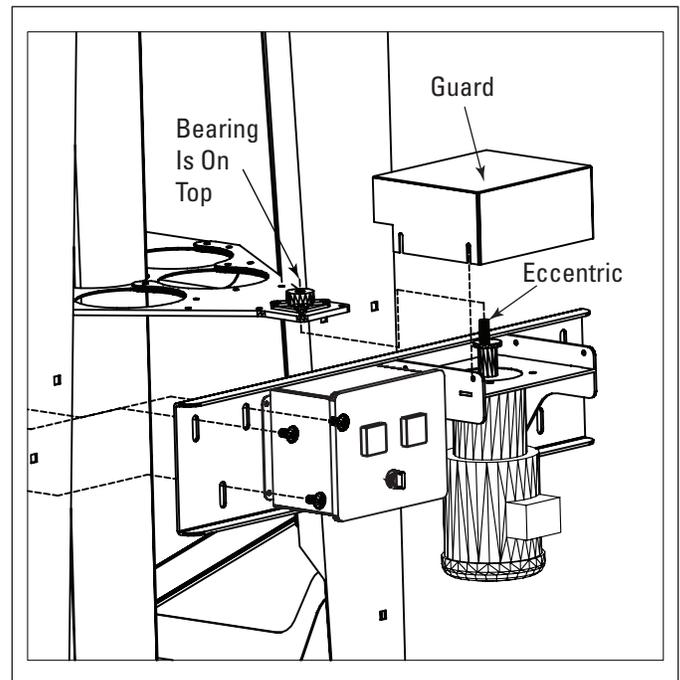
1. Squeeze bag cuff and insert into plenum hole.
2. Align mid rib of cuff with edge of hole.
3. If bag is aligned, there will be a slight bump in the cuff.
4. Press the bump and the filter bag will snap into place.

Note: On the top tubesheet, the bump can be accessed by temporarily moving a portion of the filter bag below the tubesheet up into the tubesheet opening.



## Optional Shaker Motor to Frame Assembly

1. Remove eccentric guard from shaker motor assembly by loosening the four 1/4-20 hex head cap screws.
2. Attach shaker motor assembly to legs hand tightening only.
3. Lift bearing end of shaker frame over eccentric and slide down eccentric shaft.
4. Adjust shaker motor assembly mounting bolts so that the shaker frame is level and not in a bind. Make sure the larger diameter of the eccentric is clear of the shaker frame as well.
5. Tighten shaker motor assembly frame bolts with ratchet.
6. Tighten bearing set screws on to eccentric shaft. Install guard.

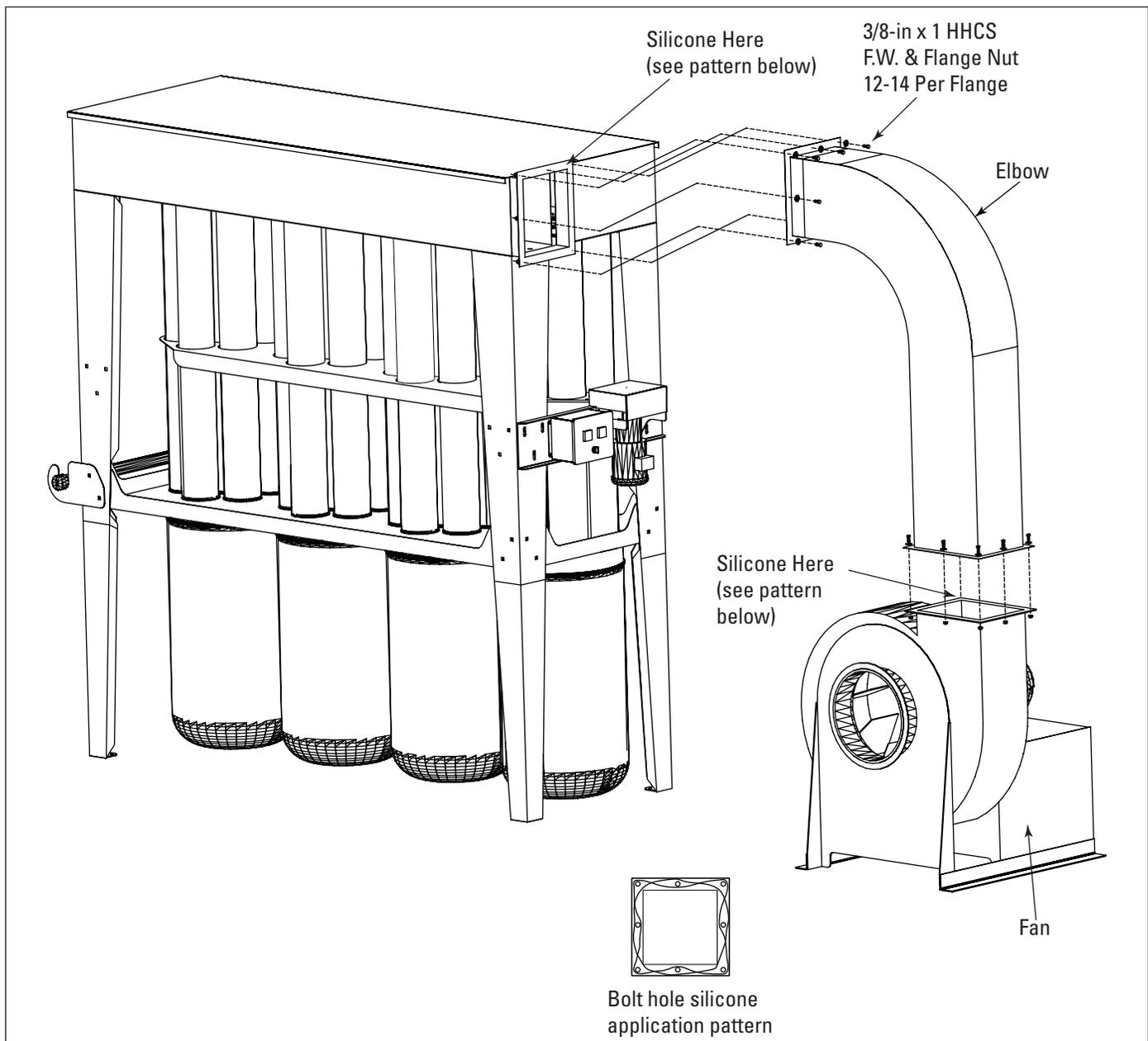


## Fan Installation

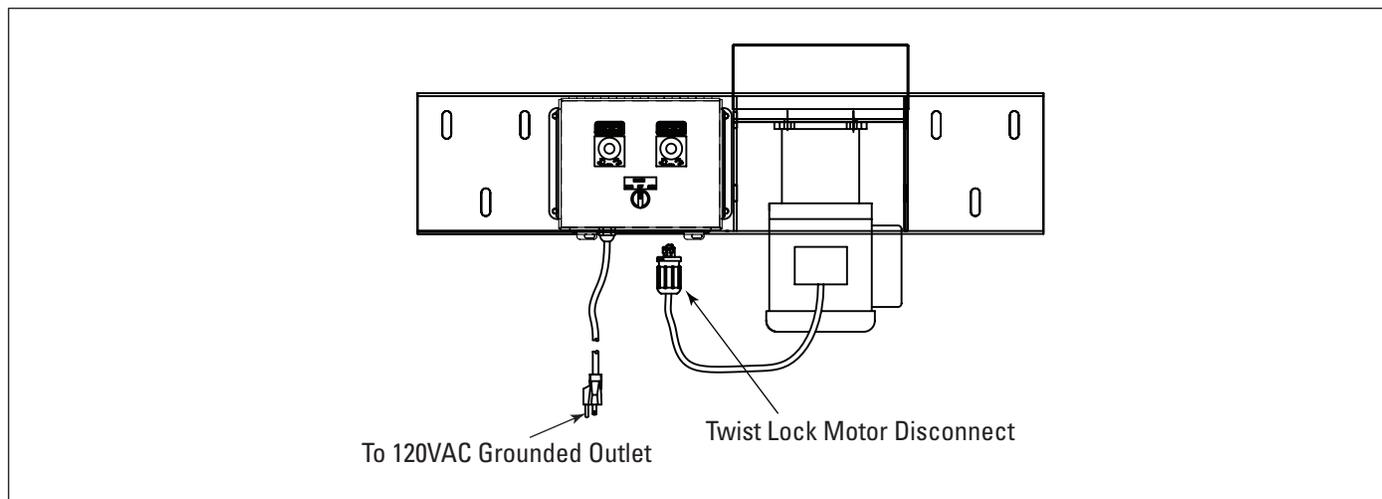
1. Position fan in approximate final location.
2. Attach elbow to fan with bolts provided at corners only.
3. Slide fan into final position and check alignment. Adjust fan base angles as required, shim if necessary.
4. Remove elbow.
5. Place a bead of silicone on both the fan exhaust and plenum inlet flanges.
6. Install full complement of bolts in both flanges.
7. Anchor fan and IRD legs with customer provided anchors.
8. Make all electrical and duct connections per national and local code(s).
9. Place into service only after all instructions and safety warnings have been read and understood.



Do not operate fan until ducting is connected to fan inlet.



## Optional Shaker Timer Installation



### Electrical Wiring



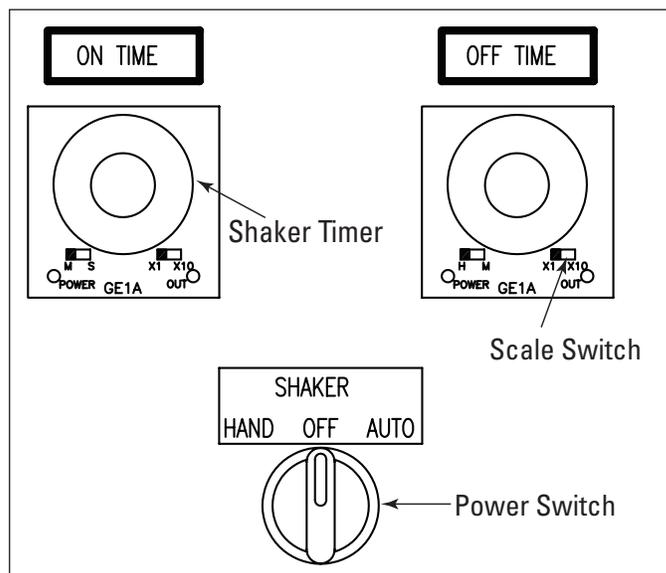
**WARNING**

Electrical installation, service, or maintenance work must

be performed by a qualified electrician and comply with all applicable national and local codes.

Turn power off and lock out all power before performing service or maintenance work.

Do not install in classified hazardous atmospheres without an enclosure rated for the application.



<b>On Time</b>	<p><b>M</b> = Scale in "Minutes"</p> <p><b>S</b> = Scale in "Seconds"</p> <p>X1 = Scale range is % of 1 Minute or Second</p> <p>X10 = Scale range is % of 10 Minute or Seconds</p>
<b>Off Time</b>	<p><b>H</b> = Scale in "Hours"</p> <p><b>M</b> = Scale in "Minutes"</p> <p>X1 = Scale range is % of 1 Hour or Minute</p> <p>X10 = Scale range is % of 10 Hours or Minutes</p>

## Operation

The timer control has two adjustable controls and one Hand-Off-Auto switch. In normal running mode this switch is placed in the 'Auto' position and the shaker to run for the "on" time set on the left control followed by an "off" interval set on the right control. The controls have two small slide switches that are set at the factory. Factory setting for On time is M and X1 and for Off time is H and X1. The Hand-Off-Auto selector should be run in only the Off or Auto positions. The 'Hand' position will run the shaker continuously. This option is not recommended and should be used sparingly for upset conditions. 'Hand' should only be used when the fan is off. Running the shaker when the fan is operating may allow dust migration through the filter media and the collector will not conform to NFPA 664 requirements requiring the shaker not to operate when the fan is on.

## Auto Shaker Adjustments

Collectors with the optional auto shaker have several settings that can be modified by the operator. The power switch has hand-off-auto settings. In "hand" the collector will shake continuously overriding both timers. In the "auto" position the shaker will run for the period set on the "on-time" timer with an interval period set on the "off time" timer. The timers have two slide switches and a dial. The left slide switch is the time units (i.e. minutes or seconds) and the right slide switch is for the scale factor; either x1 or x10. For example if the timer is set to minutes and x1 then the dial would be fractions of one minute. If it was set to x10 then the dial would be fractions of ten minutes. Factory settings are as follows:

On time M/S set to Minute; x1/x10 set to x1; Dial at 0.2

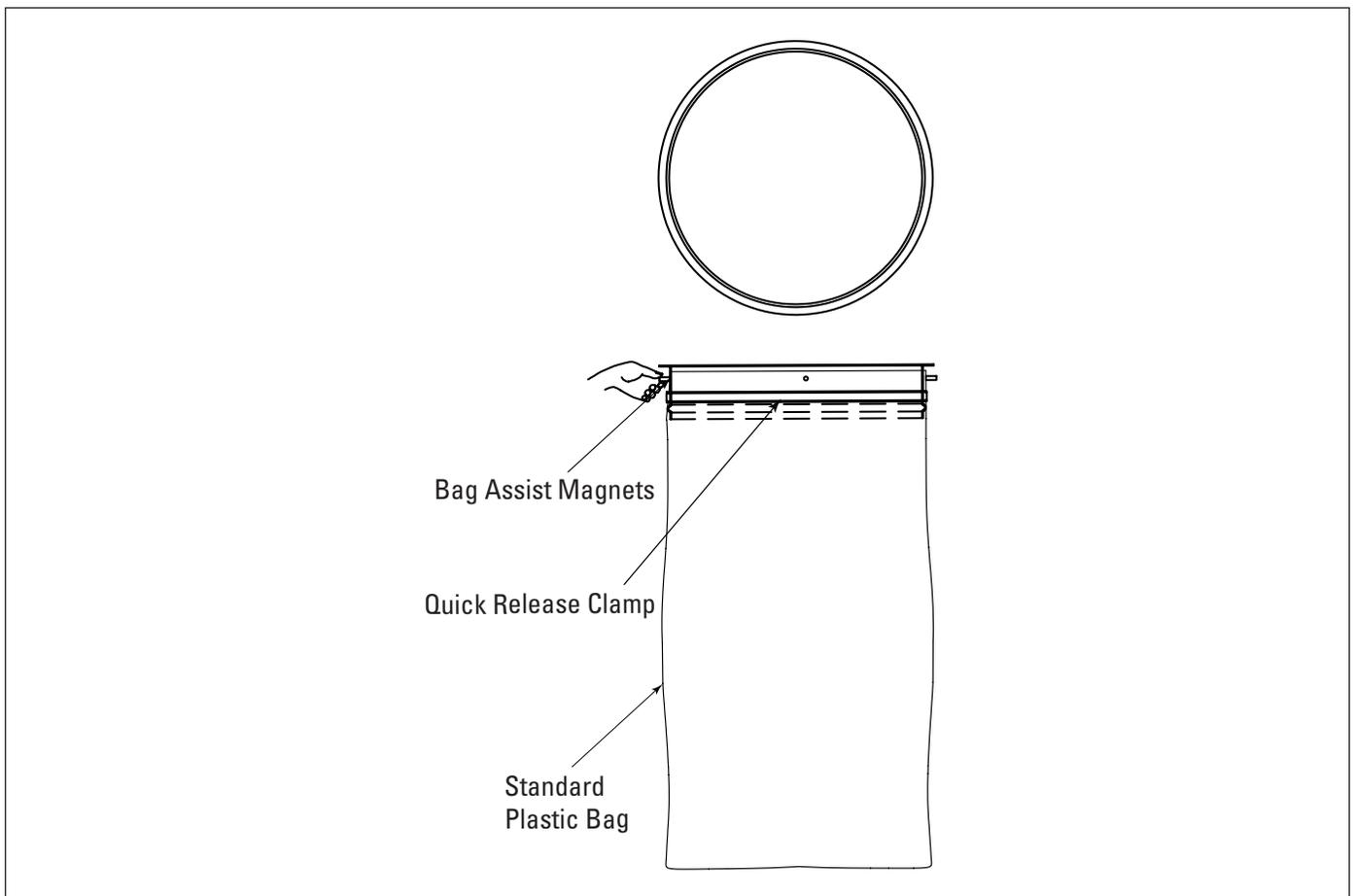
Off time H/M set to Hours; x1/x10 set to x1; Dial at 0.3

Final on and off time settings will depend on the application and operating times of the connected machines to the IRD. Experimentation is usually required to determine optimum on and off times to prevent too little or too much cleaning.

Note: Cleaning should only be performed when the fan is off.

## Dust Collection Bag Installation

IRD collectors are provided with plastic dust collection bags as standard equipment. These bags slip over the rib in the collar and are held in place using a quick release clamp. To assist the installation of the plastic bags, three small magnets are provided with each collector to hold the bag up while the clamp is positioned and secured. This allows only one person to change out the bag.

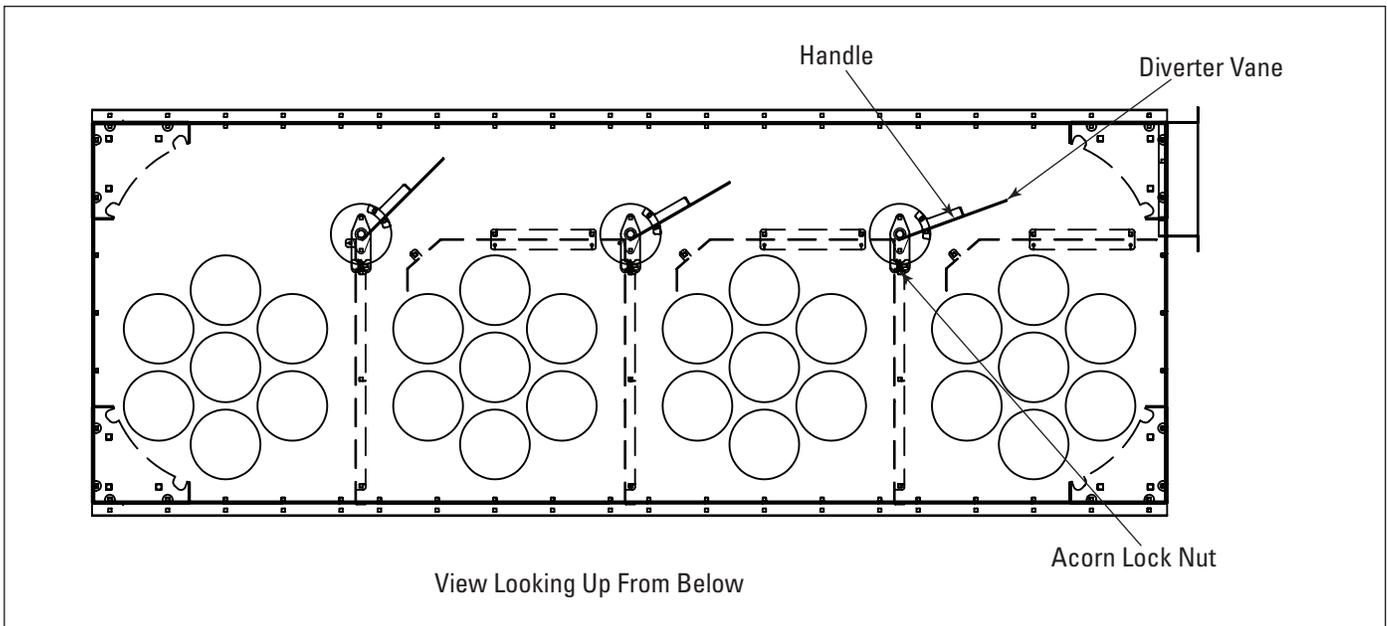


## Vane Adjustment

Distribution vanes help to fill disposal bags evenly. Adjusting the position of the vanes will allow the user to place more or less dust into a particular cell. Prior to initial start up, adjust vanes starting at the cell closest to the inlet. Loosen the acorn nut holding the handle in

place and rotate the vane into the air stream slightly. Open each successive vane slightly more so that all cells will receive flow. Use this position as a starting point.

After running for a few hours, observe the distribution in the collection bags and turn machine off and readjust as necessary.



## Preliminary Start-Up Check

Instruct all personnel on safe use and maintenance procedures.

### **WARNING**

Electrical work during installation, service or maintenance must be performed by a qualified electrician and comply with all applicable national and local codes.

Turn power off and lock out all power before performing service or maintenance work.

Check that the collector is clear and free of all debris before starting.

Do not install in classified hazardous atmospheres without an enclosure rated for the application.

1. Check all electrical connections for tightness and contact.
2. Check for proper rotation as noted on the fan.

To reverse rotation, single-phase power supply:  
Follow manufacturer's instructions on the motor's nameplate.

To reverse rotation, three-phase power supply:  
Switch any two leads on the motor junction box.

### **WARNING**

Do not look into fan outlet to determine rotation. View the fan rotation through the back of the motor.

Do not interchange a power lead with the ground wire. Severe personal injury and/or property damage may result.

3. All access panels should be sealed and secure.

4. Check and remove all loose items in or near the inlet of the fan.
5. Check that all remote controls and solenoid enclosures (if applicable) are properly wired and all service switches are in the OFF position.
6. Check that all optional accessories are installed properly and secured.
7. Check that the storage container is sealed, if equipped.
8. Turn power ON at source.
9. Turn fan motor ON.

### **Start up Sequence - Typical**

1. Start optional auto shaker if present.
2. Start blower motor.
3. Start process equipment.

### **Shut down Sequence - Typical**

1. Stop process equipment.
2. Stop blower. Allow optional auto shaker to run through one additional cycle.
3. Stop optional auto shaker.
4. Collectors not equipped with optional auto shaker should have bags shaken manually to dislodge dust prior to next start up.

## Maintenance Information

Instruct all personnel on safe use and maintenance procedures.

### **WARNING**

Use proper equipment and adopt all safety precautions needed for servicing equipment.

Use appropriate access equipment and procedures. Note the standard collector is not equipped with access platforms unless noted on the specification drawings.

Electrical service or maintenance work must be performed by a qualified electrician and comply with all applicable national and local codes.

Turn power off and lock out all power before performing service or maintenance work.

Do not install in classified hazardous atmospheres without an enclosure rated for the application.

## Operational Checklist

1. Monitor the physical condition of the collector and repair or replace any damaged components.

Routine inspections will minimize downtime and maintain optimum system performance. This is particularly important on intermittent-duty applications.

2. Monitor exhaust.
3. Monitor dust disposal.

## Filter Removal and Installation

### **WARNING**

Use proper safety and protective equipment when removing contaminants and filters.

Dirty filters may be heavier than they appear.

Use care when removing filters to avoid personal injury and/or property damage.

Turn power off and lock out all power before performing service or maintenance work.

### **CAUTION**

Do not operate with missing or damaged filters.

## Filter Removal

1. Turn power to collector OFF.
2. Starting with bags on end cell press on bottom cuff to release from hole. Repeat on all bottom cuffs.
3. On standard collectors simply release the upper cuffs on all the bags.
4. On collectors with shaker option release upper cuffs on all bags except center bags on end cells. These will hold shaker frame in place.
5. Install one new bag in outer bag of end cells to hold shaker frame.
6. Remove last two bags from step 4.

## Filter Bag Installation

### NOTICE

If collector is ordered with optional shaker, filter bags will have a snap band cuff in the middle in addition to the top and bottom.

1. Loosen the lower tubesheet bolts and raise the tubesheet to the top slot to allow bags to be installed. Retighten bolts to keep lower tubesheet in top slots. Refer to illustration below.
2. In the top tubesheet, install one filter bag into center hole of each end cell in plenum.

Note: Refer to Filter Snap Band Collar Installation for installing filters into tubesheets.

For collectors with Optional Shaker Tray only: pass other end of bag through corresponding shaker frame hole.

Snap middle band of bag into shaker frame.

3. Snap bottom end of bag into the lower tubesheet.
4. Install remaining bags per previous steps.
5. Loosen tubesheet to leg bolts and allow tubesheet to lower, tightening bags.
6. Tighten bolts.

## Filter Snap Band Collar Installation

1. Squeeze bag cuff and insert into plenum hole.
2. Align mid rib of cuff with edge of hole.
3. If bag is aligned, there will be a slight bump in the cuff.
4. Press the bump and the filter bag will snap into place.

Note: On the top tubesheet, the bump can be accessed by temporarily moving a portion of the filter bag below the tubesheet up into the tubesheet opening.

## Maintenance

The following instructions and guidelines are general in nature and should be adjusted to the particular application. Whenever a problem arises in any equipment, corrective measures must be taken to ensure continued safe and reliable performance.

### Collector

The collector requires minimal maintenance. Bags and clamps should be checked periodically for damage. Bolt connections especially anchor bolts should be inspected regularly.

### Fan

#### Motor

The motor should be kept dry, clean and properly lubricated to ensure optimal performance and longevity. Dust can cause motors to overheat that can lead to failure. As conditions dictate, clean the motor periodically following all safety procedures. Motors also need to be lubricated. Follow motor manufacturers recommended lubrication schedule.

#### Wheel

Follow LOCK OUT/TAG OUT procedure prior to accessing fan wheel. Inspect fan wheel for wear and build up of dirt or debris. Build up on fan wheels will cause an imbalance that can lead to catastrophic failure. Check set screws and retighten if necessary. Check for signs of fatigue and/or corrosion. Special skills and equipment are required to balance fan wheels therefore this procedure should be left to a skilled professional.

#### Fan Housing & Base

The safety, reliability and performance of the fan relies on the structural integrity of the fan housing and base. Periodically inspect welds, bolt connections and anchors for fatigue and/or corrosion.

## Troubleshooting

Problem	Probable Cause	Remedy
<b>Fan blower and motor do not start</b>	Improper motor wire size	Rewire using the correct wire gauge as specified by national and local codes
	Not wired correctly	Check and correct motor wiring for supply voltage. See motor manufacturer's wiring diagram. Follow wiring diagram and the National Electrical Code.
	Collector not wired for available voltage	Correct wiring for proper voltage.
	Input circuit down	Check power supply to motor circuit on all leads.
	Electrical supply circuit down	Check power supply circuit for proper voltage. Check for fuse or circuit breaker fault. Replace as necessary.
	Damaged motor	Replace damaged motor.
<b>Fan blower and motor start, but do not stay running</b>	Fan or duct work obstructed	Look for debris and remove.
	Incorrect motor starter installed	Check for proper motor starter and replace if necessary.
	Starter overloads tripped	Check that proper heaters are installed and that the trip setting is set to proper current load.
	Unrestricted airflow to fan	Check and remove loose item to the fan inlet.
	Electrical circuit overload at main breaker(s)	Check that the correct type of breaker is installed. Breakers for lighting applications will not work to start motors. The correct breaker for motor loads must be provided.
	Main fuse blown	Check that the correct type of fuse is installed. Slow blow or time delay fuses are required for motor loads. Fast acting fuses for lighting will not work. Follow National Electric Code for motor circuit protection.
<b>Insufficient airflow</b>	Start/stop buttons not wired correctly	Check wiring diagram for the motor starter stop/start buttons and correct if necessary.
	Fan rotation backwards	Proper fan rotation is clockwise when viewed from the motor side or counterclockwise when viewed through the inlet cone. See Preliminary Start-Up Check.
	Filter bags dirty	Stop collector and shake bags to release trapped dust or replace bags.
	Fan or duct work partially obstructed	Look for debris and remove.
	Bags obstructed	Empty plastic collection bag and material in filter bags.
Check inlet vane setting	Check for any obstructions. Adjust vane for proper airflow.	







## The Donaldson Torit Warranty

Donaldson warrants to the original purchaser that the major structural components of the goods will be free from defects in materials and workmanship for ten (10) years from the date of shipment, if properly installed, maintained and operated under normal conditions. Donaldson warrants all other Donaldson built components and accessories including Donaldson Airlocks, TBI Fans, TRB Fans, Fume Collector products and Donaldson built Afterfilters for twelve (12) months from date of shipment. Donaldson warrants Donaldson built filter elements to be free from defects in materials and workmanship for eighteen (18) months from date of shipment. Donaldson does not warrant against damages due to corrosion, abrasion, normal wear and tear, product modification, or product misapplication. Donaldson also makes no warranty whatsoever as to any goods manufactured or supplied by others including electric motors, fans and control components. After Donaldson has been given adequate opportunity to remedy any defects in material or workmanship, Donaldson retains the sole option to accept return of the goods, with freight paid by the purchaser, and to refund the purchase price for the goods after confirming the goods are returned undamaged and in usable condition. Such a refund will be in the full extent of Donaldson's liability. Donaldson shall not be liable for any other costs, expenses or damages whether direct, indirect, special, incidental, consequential or otherwise. The terms of this warranty may be modified only by a special warranty document signed by a Director, General Manager or Vice President of Donaldson. To ensure proper operational performance of the equipment, use only genuine Donaldson replacement parts. THERE EXIST NO OTHER REPRESENTATIONS, WARRANTIES OR GUARANTEES EXCEPT AS STATED IN THIS PARAGRAPH AND ALL OTHER WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHETHER EXPRESS OR IMPLIED ARE HEREBY EXPRESSLY EXCLUDED AND DISCLAIMED.

This product is provided subject to Donaldson's Terms and Conditions of Sale, a copy of which is available on our website or by calling our customer service line at 1-800-365-1331.



**Donaldson**  
FILTRATION SOLUTIONS

### Parts and Service

For genuine Donaldson replacement filters and parts, call the Parts Express Line. For faster service, have collector's model and serial number, quantity, part number, and description available.

**Donaldson Company, Inc.**  
**Torit**  
**PO Box 1299**  
**Minneapolis, MN 55440-1299 U.S.A.**

**800-365-1331 USA**  
**800-343-3639 within Mexico**  
**+52 (449) 300 24 42 Latin America**

**[donaldsontorit@donaldson.com](mailto:donaldsontorit@donaldson.com)**  
**[donaldsontorit.com](http://donaldsontorit.com)**

Donaldson Company, Inc. is the leading designer and manufacturer of dust, mist, and fume collection equipment used to control industrial-air pollutants. Our equipment is designed to help reduce occupational hazards, lengthen machine life, reduce in-plant maintenance requirements, and improve product quality.

© 2008 Donaldson Company, Inc.  
Printed in USA

IOM AJ0000101 (ENG), Revision 1  
April 2018