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.

Data Sheet

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Serial Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ship Date</th>
<th>Installation Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Customer Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Filter Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>
Contents

Description.................................................................................................1
Purpose and Intended Use .................................................................1
Inspection on Arrival ........................................................................3
Installation Codes and Procedures ..................................................3
Installation.................................................................................................3
Foundations or Support Framing .....................................................4
Collector Location ..............................................................................4
Site Selection ........................................................................................4
Rigging Instructions ..............................................................................4
Hoisting Information .............................................................................4
Standard Equipment ..............................................................................5
Filter Installation ................................................................................5
LP with 72 - 312 Bags ..........................................................................5
LP with 378 Bags and Larger ...............................................................7
    Channel and I-Beam Frame Assembly ........................................9
    Leg Installation ..............................................................................11
    Provisional Anchor Bolt Recommendations ................................11
    Leg and Cross Brace Assembly ....................................................12
    Tubesheet Assembly .....................................................................13
    Hopper Assembly .........................................................................15
    Inlet Assembly - Tangential ..........................................................18
    Bag Section Assembly ..................................................................20
    Exhaust Plenum/Roof Section Assembly ......................................22
    Lower Plenum Access Assembly ...................................................24
    Install Tubesheet and Support Column .......................................25
    Lower Plenum Access Section Attachment and Internal Cleaning Assembly ..................................................26
    Install Bags and Cages ...............................................................26
    Exhaust Plenum Access and Roof Section Attachment ..................29
    Attach Exhaust Ducting ...............................................................29
    Attach Ladders and Platforms .....................................................29
    Lift Plenum and Ducting ...............................................................30
    Install Additional Ducting ............................................................30
    Install Rotary Airlock ....................................................................30
    Install Magnehelic Gauge ............................................................30
    Install Electrical Connections .....................................................30
    Inspect Structural Connections ....................................................30
    Inspect Electrical and Mechanical Connections .....................30
    Place Collector into Service ........................................................30
    Electrical Wiring ............................................................................31
    Magnehelic® Gauge .......................................................................31
    Optional Equipment ........................................................................33
    Photohelic® Gauge .......................................................................33
    Operation .........................................................................................35
    Explosion Vent .............................................................................36
    Start up Sequence - Typical ........................................................36
    Shut down Sequence - Typical ......................................................36
    Maintenance Information ...............................................................37
    Troubleshooting ............................................................................37
    Service Notes ................................................................................38

Magnehelic® and Photohelic® are registered trademarks of Dwyer Instruments, Inc.

⚠️ 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 LP Baghouse is a continuous duty dust collector with bag-style filters designed to handle up to 141,000 cfm depending on the application and dust type. Continuous duty means the filters can be reverse air cleaned on-line without interrupting airflow through the collector. All bags are cleaned with every revolution of the cleaning arm.

The cylindrical collector housing design on collectors with 312 bags or less will arrive in multiple rings that are to be stacked on top of each other at the job site. Collectors with 378 bags or larger will arrive in sections that are to be bolted together to create rings that will be stacked on top of each other at the job site. The collector housing design includes a tangential inlet with an internal deflection baffle.

The tangential inlet removes heavy materials before they reach the bags, eliminating the need for a separate cyclone precleaner.

The LP features a walk-in clean-air plenum, allowing filter bag service from inside the clean air plenum.

**Purpose and Intended Use**

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

Do not misuse or modify.

The LP Baghouse collector is common in the nut, woodworking and grain industries where it effectively handles high-volume, high dust-load applications.

Sizes are available for applications with any of the following conditions or requirements:

- Heavy dust load
- No compressed air available
- A requirement for a single discharge hopper

**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.
Collectors rated for the following loads as calculated per relevant sections of the IBC 2012 code*:

Basic Wind Speed & Exposure ........ 115 mph, Exposure C
Seismic Spectral Acceleration, $S_x$ ....................... .15 g
Seismic Spectral Acceleration, $S_1$ ......................... .6 g
Installed Collector Base Elevation ......................... Grade
Risk Category ........................................................ II
Housing rating, inches water gauge .............. - 17, +10
Control power ................................................... 120-Volt 50/60 Hz

*If collector was supplied with a Record Drawing, the specifications on the drawing will supersede the standard specifications above.
Installation

**WARNING**
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 electrical power sources before performing service or maintenance work.

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

Turn compressed air supply OFF, bleed and lock out lines before performing service or maintenance work.

**CAUTION**
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 dust 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.

**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**

**CAUTION**
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.
The collector is suitable for either indoor or outdoor 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 and compressed air connections, to simplify solids collection container handling and routine maintenance, and to ensure the straightest inlet and outlet ducts.

Site Selection

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

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

Portable collectors require special installation accommodations.

Note: Collectors with explosion vents are not available in portable configurations.

Rigging Instructions

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

**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.
**Standard Equipment**

After removing any accessory equipment that may have been stored inside the collector, follow the precautions below during installation:

- Take appropriate precautions to avoid injury (pinching) during leg structure assembly or handling.
- Take appropriate precautions to prevent tripping or falling when working on or around the leg structure.
- Follow all assembly instructions and notes and cautions to achieve expected assembly results. Assembling the structure in the wrong sequence or without following proper procedure can result in structural failure and improper operation.
- Follow the provided bolting instructions. Using incorrect or insufficient fasteners can compromise structural integrity. Improper tightening of bolt hardware may compromise structural integrity.
- Do not assemble the collector in the wrong sequence or using the incorrect components.
- Use only provided lifting lugs in the prescribed fashion and do not lift more weight than what is specified.
- Lift rings and sections only when the load is balanced.

**Filter Installation**

**LP with 72 - 312 Bags**

**Preassembled Units**

Filter units that arrive fully assembled can be lifted directly into final position. Anchor bolts should be installed and tightened before lifting equipment is disconnected from filter. All bolt connections should be checked and re-tightened if necessary.

1. Connect all ducting using RTV silicone between all mating flanges.
2. Make electrical connections.
3. Connect Magnehelic gauge per Magnehelic Gauge Connection.
4. Install bags and cages per Filter Bag and Cage Installation.

**Partially Assembled Units (LP with 312 Bags and Smaller)**

The degree of assembly upon arrival may vary on some units. The following steps are typical for assembling a filter that ships in rings (can section collectors).

1. Place hopper on level surface with product discharge flange up (i.e. upside down).
2. Attach legs and cross braces with supplied hardware.
3. Using appropriate lifting equipment (i.e. crane) right the hopper and leg assembly and lift into final position. Secure to foundation. Check all connections, re-tighten if necessary.
4. Right inlet section if not already in righted position. Place a bead of RTV silicone on hopper top flange. Lift inlet onto hopper and secure with provided hardware.
5. Locate upper bag section on level surface. Place a bead of RTV silicone on top flange. Lift tubesheet into position. Place a bead of RTV silicone on the top of the tubesheet.
6. Lift LP section onto tubesheet. Use provided bolts to secure flanges. Place a bead of RTV silicone on top flange.
For LPs with 378 bags or more, each ring and hopper will be assembled from multiple pieces.
7. Lift LP mechanism into LP section if not already installed. Secure with provided hardware.
8. Lift plenum onto LP section. Use provided bolts to secure flanges.
9. Locate lower bag section on level surface. Place a bead of RTV silicone on top flange. Lift plenum and LP section assembly onto bag section. Secure to bag section using supplied hardware. All bolts should be in place and tightened before attempting to lift plenum and bag section assembly.
10. Bags and cages can be installed at this time if so desired. Refer to Filter Bag and Cage Installation found on page 30. Insert bag into tubsheet hole, fold snap band as shown. Place bag collar groove against hole edge and allow snap band to expand. Push the snap band until it pops into place. Insert cage.
11. Attach catwalk to LP section.
12. Place a bead of RTV silicone on inlet body flange. Lift plenum and bag section assembly onto inlet. Install and tighten all hardware. Do not disconnect lifting equipment until all bolts are in place and tightened.
13. Lift ladder into place and secure with provided hardware.
14. Place a bead of RTV silicone on transition top flange. Lift transition under hopper and secure with provided hardware.
15. Place a bead of RTV silicone on airlock or airlock/auger top flange. Lift airlock or airlock/auger under transition and secure with provided hardware.
16. Make all electrical connections. Consult local building codes. All electrical connections inside the filter must be explosion proof.
17. Install bags and cages if not done so in step 10.

**LP with 378 Bags and Larger**

The following list summarizes the order in which to assemble the filter. This is a suggested sequence that years of experience have proven to be effective. Depending on your situation a different sequence may be more appropriate. Each of the following steps is explained in detail on the following pages. Please refer to them for clarification and further important details. This list is intended as a summary only.

1. Assemble the channel frames or I-Beam.
2. Erect legs and cross bracing and place channel frame onto legs.
3. Assemble tubesheet. This step is critical because all other sections will be assembled on the tubesheet.
4. Assemble hopper and lift into place.
5. Assemble inlet section and lift into place.
6. Assemble bag sections and lift one onto the other, bolt together and set aside.
7. Assemble exhaust plenum/roof section and set aside.
8. Assemble lower plenum access section and set aside.
9. Lift tubesheet and attach upper support column/pole. Upper support column/pole is provided on collectors with 450 bags or larger. Lift tubesheet onto bag sections.
10. Lift lower plenum access section onto tubesheet and secure. Install internal cleaning mechanism.
11. Install bags and cages in filter.
12. Lift plenum top onto access section. Secure in place.
13. Attach exhaust ducting to plenum.
14. Attach access platforms and ladders.
15. Lift filter assembly onto inlet section and bolt together.
16. Install additional ducting and supports as necessary.
17. Install rotary airlock onto collector hopper.
18. Install Magnehelic gauge.
19. Install all electrical connections.
20. Inspect all structural connections for proper torque.
21. Inspect all electrical, and mechanical connections.
22. Place collector into service.
R = Roof section
E = Exhaust Plenum
LP = Lower Plenum Access
BS1 = Bag Section 1
BS2 = Bag Section 2
BS3 = Bag Section 3
D = Deflector Section
UI = Upper Inlet (684 and larger only)
LI = Lower Inlet (684 and larger only)
I = Inlet (smaller than 684)
UH = Upper Hopper
MH = Middle Hopper (if required)
LH = Lower Hopper

Parts labeled in this illustration are for each ring of the collector and will be packaged in racks with a stamped metal tag denoting which ring it is a part of. For example, there will be a pack labeled BS1 which will have all the panels needed to create the BS1 ring. For shipments with multiple collectors, the “-1” will denote which collector that rack of parts is for.
1. Channel and I-Beam Frame Assembly

The channel frame consists of three different pieces in the following quantities:

- **LP 450 and smaller use a channel frame assembly**
  - 2 Each
  - Cat Walk Mount Plates
  - 4 Each

- **LP 528 and larger use an I-Beam frame assembly**
  - 2 Each
  - 4 Each

Place the channel pieces on a flat level surface for assembly. Use the 1” UNC A325 bolts provided for all connections. Locations where bolts pass through channel flanges must have a wedge washer placed on the bolt for proper connection. Note catwalk mounts can be bolted onto any side, however attention must be paid to the orientation of the catwalk entry.
Level and square all members of the frame. Tighten all bolts. Note the channel member with the two protruding plates. These plates are mounts for the lower catwalk and it is important that the frame is placed in the correct orientation so that the access ladders will line up.
Leg Installation

**WARNING** Anchors must comply with local code requirements and must be capable of supporting dead, live, wind, seismic, and other applicable loads.

Anchor sizes shown are provisional, as final anchor sizing will depend on job site load conditions, collector location, foundation/framing design variables and local codes.

Consult a qualified engineer for final selection of suitable anchors.

**NOTICE** Temporary support is required until all legs and cross-bracing are in place.

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.

![Diagram of anchor installation](image-url)

- Anchor should project a minimum of 1 3/4-in and account for nut, washer, base plate and shims/grout.
- Embedment depth
2. **Leg and Cross Brace Assembly**

The legs and cross braces will vary in size and qty per job. The following example covers typical erection protocol.

Lift each leg onto the foundation. Temporary supports must be used to stabilize the leg columns. Bolt the cross braces on the legs. See assembly drawing for bolt sizes. Bolt the horizontal brace if provided. Bolts should be hand tight at this point to allow for alignment of the legs to the channel frame. Lift channel frame into place and bolt to legs. Level the top of the frame so that the filter will not lean to any one direction. Tighten all bolts. Some area’s building codes require that bolt torque be checked by an approved testing service. Please check your local building codes.

Some structures require double x-braces. These will have splice plates at the point of intersection. The plates are oriented as shown. One long brace should be placed in each direction.
3. **Tubesheet Assembly**

The tubesheet consists of the following items:

![Diagram of tubesheet assembly]

- **Quantity 6 Each**: Short radial arm
- **Quantity 6 Each**: Long radial arm
- **Quantity 1 Each**: Centrally located plate

The assembly of the tubesheet is critical because it is used as a template for the assembly of all the other sections. The stiffeners must be bolted together forming a central hexagonal tube (see diagram next page). The bolts should be hand tightened at first so that all the pieces can be aligned before tightening. After the stiffeners are together place a bead of silicone on each side of the stiffener flange so that an air tight seal is developed when the tubesheet pie section is bolted in place. After all the pie sections are in place bolt the center plate with bearing in place. Align and tighten all bolts. Note: on some models the pie sections are in multiple pieces and require splice plates.
1/4-in bead of silicone around perimeter and bolt holes as shown

Tubesheet pie section
Sections may consist of multiple pieces

Tubesheet radial arm

Tubesheet center (place on last after all other bolts are tightened)

Install these bolts when locating tubesheet center
4. **Hopper Assembly**

1. Mount the upper hopper panel upside down on a flat, clean surface. Use the tube sheet as a fixture if there is no flat area to work on. Do not apply sealant between the hopper panel and the tube sheet.

2. Temporary supports at the ends of each hopper panel may be required until the upper hopper ring is complete.

3. Before connecting the adjacent hopper panel, apply sealant to the mating flange within 1/8-in of both flange edges as shown.

4. Set the next panel and hand-tighten the hardware (connecting bolts should draw the adjoining flanges together but still allow for some slippage). Repeat steps until upper hopper assembly is complete.

---

**Upper Hopper Assembly (Upside Down)**

Note: number of hopper pieces will vary from size to size. Top section has 6 panels, middle section has 8 panels (if required).
5. If there is a middle hopper assembly, assemble it in the same way as the upper hopper assembly.

6. After the hopper sections are assembled, apply sealant to the top of the upper flange as shown to prepare for the middle hopper to be set.

7. Lower the middle hopper assembly onto the upper hopper assembly and hand tighten the hardware.

8. Once the middle hopper is attached to the upper hopper, apply sealant and attach the lower hopper assembly and hand tighten the hardware.

9. Apply sealant, attach the hopper transition and hand tighten the hardware.

10. Tighten all bolts.

11. After hopper assembly is completely bolted and tightened, undo any bolts connecting it to the tube sheet (if used).

10. Lift the hopper and rotate it to the upright position.

**CAUTION** Use caution when lifting/rotating hopper. Keep tension on all straps/cables when lifting. Failure to comply may result in personal injury and/or property damage.

Water overflow drains are required if sprinkler/fire suppression system is installed.

**Sealant Application**

Hopper Assembly (Upside Down)

Note: number of hopper pieces will vary from size to size. All sizes have 8 panel top sections, middle section has 6 panels if middle section is required.
11. Attach lifting lugs 90° apart to the top of the hopper.

12. Align the hopper feet in the 0°, 90°, 180°, and 270° positions per the configuration drawing. See illustration below.

13. In this orientation, lower the hopper assembly into the leg frame. Fasten the hopper assembly securely to the I-beam frame with the provided 1-in hardware.

Note: Lifting Lugs Bolt-On Usage - Use the provided bolt-on lifting lugs and grade 5 hardware when moving panels into position. Position the lugs so they straddle a seam with 2 bolts on each panel, 4 lifting lugs should be evenly distributed around the entire assembly. When lifting an assembly, use all four lugs. Never lift more than what is recommended in this manual.
5. Inlet Assembly - Tangential

The tangential inlet consists of the following items:

- Quantity 18-24 Each
- Quantity 4-8 Each
- Quantity 3-6 Each or LP 684 and larger Quantity 14 each
- Quantity 1 Each (684 and larger consists of 2 panels stacked on top of each other)
Place the short panels which make up the walls of the deflector section onto the tubesheet and align flange holes. Place silicone on flanges and position into place. Bolt deflector plates to wall and each other. Deflectors can be installed for clockwise rotation (shown) or counter clockwise (opposite of shown). Tighten deflector plate bolts. Lift deflector assembly from tubesheet and set aside.

Place the inlet walls onto tubesheet and align flange holes. Place silicone on flanges and position into place. When placing the inlet sections next to each other, make sure the the spiral deflector inside of the inlet section is continuous. Bolt the inlet section together.

Prepare the top hopper flange with a bead of silicone placed between the flange holes and the interior of the hopper. Remove inlet section from tubesheet and lift onto hopper using the bolt-on assembly lift ears provided. It is helpful to stagger flange seams as the filter is stacked up if orientation allows. Therefore it is recommended that each succeeding section be rotated so that maximum overlap is achieved.

Note: Lifting Lugs Bolt-On Usage - Use the provided bolt-on lifting lugs and grade 5 hardware when moving panels into position. Position the lugs so they straddle a seam with 2 bolts on each panel, 4 lifting lugs should be evenly distributed around the entire assembly. When lifting an assembly, use all four lugs. Never lift more than what is recommended in this manual.
6. Bag Section Assembly

The bag section consists of the following items:

**NOTICE**  
When ring with explosion vent is completely assembled, replace all corner fasteners with supplied blue fasteners. This must be done for explosion vents to perform properly. Refer to Explosion Panel Fastener Detail illustration.
Note: Lifting Lugs Bolt-On Usage - Use the provided bolt-on lifting lugs and grade 5 hardware when moving panels into position. Position the lugs so they straddle a seam with 2 bolts on each panel, 4 lifting lugs should be evenly distributed around the entire assembly. When lifting an assembly, use all four lugs. Never lift more than what is recommended in this manual.

The bag section consists of two or three barrel/ring sections. BS3 and BS4 will have 1-14 explosion relief panels. The bag sections will be marked BS1, BS2 and BS3. When fully assembled, BS3 will be on the bottom, BS2 will be next and BS1 will be on top. Place the panels for BS3 on the tubesheet, apply sealant on the flanges and bolt together as explained in previous sections. When BS3 is completely assembled, lift it off the tubesheet and set it on eight evenly spaced 4-in x 4-in blocks. This section is being placed to the side for easier bag and cage installation later on.

Next, assemble BS2 on the tubesheet in the same way that BS3 was assembled. When completely assembled, apply sealant to the top flange of BS3, lift BS2 and place it on top of the flanges of BS3. Be certain to stagger the vertical flanges of BS3 and BS2 so they are NOT directly on top of each other. Bolt BS3 and BS2 together.

Follow the same procedure to assemble BS1 and bolt it on top of BS2.

The next step is install the bag section on top of the deflector section. Apply sealant on the top flange of the deflector section and lift the bag section on top of the deflector section. Be certain to stagger the flanges so they are not directly on top of each other. Bolt the bag section and deflector section together.

> IMPORTANT
> Replace corner shipping washers with provided explosion fasteners

> Extreme caution should be exercised when installing Explosion Relief Fasteners. It is recommended all fasteners be driven using a hand speed wrench or a ratchet wrench to ensure there will be no damage to the release washer.

> These two parts come pre-assembled

> Blue side
> Rubber side

> Spacer (Fits in panel hole)
7. Exhaust Plenum/Roof Section Assembly

The plenum top consists of the following items:

- Quantity 1 Each
- Quantity 8 Each
- Quantity 3 or 6 Each
- Quantity 1 Each
Place the wall panels onto the tubesheet and assemble flanges as discussed in previous sections. Apply silicone and tighten. After applying silicone to the flanges, place one of the eight top panels onto the top wall flange and bolt in place. Temporarily support the other end of the panel. Install the remaining seven panels applying silicone to the flanges. Place top cap piece onto top panels, silicone and bolt in place. It is imperative that sufficient silicone be used to create an air tight seal. Set aside.
8. **Lower Plenum Access Assembly**

The plenum access assembly consists of the following items:

![Diagram showing quantities of different parts of the access assembly]

- **Quantity 2 Each**
- **Quantity 1 Each**
- **Quantity 5 Each**

Assemble access section walls onto tubesheet. Bolt wall sections together as in previous sections. Set section aside.
9. **Install Tubesheet and Support Column**

At this point the tubesheet can be installed. Large models (450 bags and larger) have a tubesheet support column that allows for leveling the tubesheet. The following procedure should be followed on these models. Lift the tubesheet with the crane and attach the upper portion of the support column to the tubesheet center pipe using the provided 5/8 UNC by 6 all-thread bolt (see image below). The holes are slotted so that tubesheet stiffeners will come to rest onto the column plate. Lift the tubesheet with column onto the prepared bag section assembly.

Adjust leveling bolts so they are flush with the underside of the nut plate. Slide lower support column onto deflector assembly support stub. Note that after filter section is placed onto inlet and secured, connect the upper and lower columns with the bolts provided. Use leveling screws to lift tubesheet so that it is level. Ensure that the top column plate is firmly against the stiffeners and is not pressing against the temporary connecting bolt. The temporary connecting bolt can be left in place after installation as long as it is not keeping the tubesheet from resting on the top column plate.
10. **Lower Plenum Access Section Attachment and Internal Cleaning Assembly**

The next step is to attach LP (lower plenum) to tubesheet and install filter cleaning system components. The cleaning assembly consists of the following items:

![Diagram of LP Baghouse](image)

- Quantity 1 Each: cleaning fan, support channel frame, manifold arm(s), rotating elbow, tubesheet bearing, pillow block bearing and shim*
- Quantity 1 or 2 Each: urethane seal
- Quantity 1 Each: seal box, drive components, UHMW sweep shoe

*Note: grease the pillow block bearing during regular maintenance
Prepare the tubesheet with sealant around its perimeter. Lift access section into place. When setting the Lower Plenum Access Section on the tubesheet, make sure that the door is in the proper position and that the Magnehelic Gauge connection in the plenum access section is close to the Magnehelic Gauge connection in the BS1 panel. Install all bolts and tighten. Lift rotating elbow into the lower plenum and slip shaft into bearing on tubesheet. Temporarily support rotating elbow by placing wooden blocks between the tubesheet and the elbow base. Lift the support channel frame with seal box into plenum. Align internal bearing with rotating elbow shaft and lower channel frame onto wall mounts. Install all bolts in wall mounts hand tight. Using a level or a framing square on the rotating elbow flange check that the shaft is vertical in all quadrants. Check that elbow is centered in seal box opening. Rotate elbow by hand and check for any obstructions. The urethane seal should drag on elbow pipe. Lift sweep arm(s) into access section and place on tubesheet. Attach the arm(s) to the rotating elbow. Rotate assembly by hand and check for obstructions before putting chain on. In addition, check to make sure that the cleaning arm has the same separation from the tubesheet in all four quadrants of 3 o’clock, 6 o’clock, 9 o’clock and 12 o’clock. To do this, place the cleaning arm in the 3 o’clock position. Measure the amount of sweep shoe rod that is extending above the cleaning arm. Now measure how much the rod extends in the other 3 quadrants. If the difference between these four measurements are less than 1/2 an inch, no further adjustments are required. If these measurements are greater than 1/2”, check to make sure the tubesheet is level and properly supported in the middle. If this is not the remedy, adjust the pillow block bearing or pillow block bearing shim.
Once shaft is correctly aligned tighten all mount bolts and bearing set screws. Install the drive chain on the sprocket as shown in the diagram below.

Drive chain position and rotation is critical for proper operation (drawing shown above is view from above)

Prepare channels for placement of fan by applying a bead of silicone on the mating surface. Lift fan into place and secure with provided bolts making sure to use the wedge washers on the channels.

11. Install Bags and Cages

At this point it is recommended that the bags and cages be installed because of ease of handling. The bags and cages can be lifted in over the open top of the access section and installed as follows. The filter bags are held in place by a snap band that is incorporated in the bag collar. The closed end of the bag is lowered into the bag section through the tubesheet and the collar is snapped into place. The cage is then lowered into the bag. If the bag section is resting on the ground the cages will not seat completely at this time. However when the filter is lifted into place the cages will have clearance to be seated.
12. Exhaust Plenum Access and Roof Section Attachment

The exhaust plenum access assembly is now ready for the roof section. Prepare the mating flange with silicone and place the roof section onto exhaust plenum access assembly. Place roof in desired orientation with respect to the access door. After the roof section has been secured, apply sealant to the top flange of the Lower Plenum Access section. Lift and secure the combined exhaust/roof section to the Lower Plenum Access section. Bolt into place. Install all flange bolts and tighten. Install the Magnehelic Gauge filter (see next page for details). At this point the filter is ready to be lifted into position.

13. Attach Exhaust Ducting

Depending on the ducting configuration some of the pieces of ducting can be attached to the exhaust flange and lifted at the same time. Any ducting that is attached to the exhaust must be sufficiently supported along its length so as not to damage the filter.

14. Attach Ladders and Platforms

The upper platform mounts to the plenum access section. The lower platform mounts to the main structural support frame. The ladders are bolt together and are marked as being upper or lower.
15. **Lift Plenum and Ducting**

If not already done in one of the previous two steps prepare the inlet section flange with silicone and lift the top/plenum/bag section onto the filter. Align the flange holes and bolt in place.

16. **Install Additional Ducting**

After filter is completely erected the rest of the ducting may be connected. It is important to insure that the ducting is adequately supported and that the weight is not entirely on the filter.

17.  

18. **Install Rotary Airlock**

The rotary airlock flange should be prepared with silicone to insure an air tight seal. Lift the airlock into position and bolt into place. Depending on any accessory equipment attached to the airlock outlet, additional support may be required.

19. **Install Magnehelic Gauge**

The Magnehelic Gauge is provided with a mounting plate and is typically located near the access ladder at face level. Run two lines of the 1/4” poly tubing provided from the plenum connections down to the gauge. Attach the tubing to the filter at the section flanges with the clips provided to keep it in place.

20. **Install Electrical Connections**

All electrical connections are the responsibility of the customer. Follow all local and national electrical codes when installing service. Any wiring on the interior of the filter may need to be rated for explosive environments. Consult your local codes.

21. **Inspect Structural Connections**

Before placing filter into service it is important that all structural connections be inspected for proper torque. It is recommended that all structural bolts be checked and re-tightened if necessary.

22. **Inspect Electrical and Mechanical Connections**

Before placing filter into service it is important that all electrical connections are inspected and approved. The internal fan was checked before shipping however before starting the fan it is recommended that the fan wheel is checked for proper clearance. This is done by locking out the power source to the fan and then spinning the fan wheel by hand. Listen for any sounds of the wheel rubbing against the inlet cone. If there is no apparent rubbing then bump start the fan and listen for rubbing while fan is at operational speed. If no rubbing is present then the fan set screws should be checked and re-tightened and the fan is ready for service. It is also important to check that the fan is rotating in the correct direction as indicated by the rotation sticker on the housing.

The gear drive boxes are shipped with the proper amount of oil. However before starting the rotating arm drive check the oil level in the gearbox and place vent cap into proper position. Consult the manufacturer’s tags that are attached to the gearbox. Visually inspect that there are no obstructions in the drive chain or in the path of the sweep arm assembly. Bump start the drive and note the rotation of the arm. The rotation must be in the direction in which the chain tensioner is on the slack side of the drive (see illustration on page 27 or 38).

23. **Place Collector into Service**

The collector should now be ready for service.
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 electrical power sources 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.

The appropriate wiring schematic and electrical rating must be used. See collector’s rating plate for required voltage.

An electric disconnect switch having adequate amp capacity shall be installed in accordance with Part IX, Article 430 of the National Electrical Code (NFPA No. 70-latest edition). Check collector’s rating plate for voltage and amperage ratings.

Refer to the wiring diagram for the number of wires required for main power wiring and remote wiring.

Magnehelic® Gauge

The Magnehelic is a differential pressure gauge used to measure the pressure difference between the clean-air and dirty-air plenums and provides a visual display of filter change requirements. The high-pressure tap is located in the dirty-air plenum and the low-pressure tap is located in the clean-air plenum.

1. Choose a convenient, accessible location on or near the collector for mounting that provides the best visual advantage.

2. Plug the pressure ports on the back of the gauge using two, 1/8-in NPT pipe plugs supplied. Install two, 1/8-in NPT male adapters supplied with the gauge into the high- and low-pressure ports on the side of the gauge.

3. Attach the mounting bracket using three, #6-32 x 1/4-in screws supplied.

4. Mount the gauge and bracket assembly to the supporting structure using 2 self-drilling screws.

5. Two hundred feet of plastic tubing is supplied and must be cut in two sections. Connect one section of tubing from the gauge’s high-pressure port to the pressure fitting located in the dirty-air plenum. Connect remaining tubing from the gauge’s low-pressure port to the fitting in the clean-air plenum. Additional tubing can be ordered from your representative.

6. Zero and maintain the gauge as directed in the manufacturer’s Operating and Maintenance Instructions provided.
Magnehelic Gauge Installation

already installed in LP section

clean-air plenum pressure tap location
plenum tap location 3/8-in flat washer
1/8-in NPT coupling

1/8-in NPT adapter

1/8-in NPT x 90° male elbow

Magnehelic gauge
high-pressure port
low-pressure port
two, 1/8-in NPT adapters
plastic tubing
two, 1/8-in NPT pipe plugs
two, self-drilling screws

support structure mounting surface

#6-32 x 1/4-in mounting screws mounting bracket

already installed in BS1 section

1/8-in NPT x 90° male elbow

1/8-in NPT adapter
dirty-air plenum pressure tap location
3/8-in flat washer
1/8-in NPT adapter
1/8-in NPT x 90° elbow

static pressure tee
Optional Equipment

Photohelic® Gauge

**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 electrical power sources before performing service or maintenance work.

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

The Photohelic combines the functions of a differential pressure gauge and a pressure-based switch. The gauge function measures the pressure difference between the clean-air and dirty-air plenums and provides a visual display of filter condition. The high-pressure tap is located in the dirty-air plenum and a low-pressure tap is located in the clean-air plenum. The pressure-based switch function provides high-pressure ON and low-pressure OFF control of the filter cleaning system.

1. Choose a convenient, accessible location on or near the collector for mounting that provides the best visual advantage.

2. Mount the gauge to the remote panel or door using the mounting ring, retaining ring, and four #6-32 x 1 1/4-in screws. Do not tighten screws. Connect two, 1/8-in NPT x 1/4-in OD male adapters to the gauge’s high- and low-pressure ports. Tighten screws.

3. On the back of the gauge, remove four #6-32 x 5/16-in screws and plastic enclosure. Set aside. Add two jumper wires supplied by customer. Remove the jumper from the pressure switch located on the timer board, if equipped. Using the 3/4-in conduit opening, wire the gauge as shown. Reassemble and fasten enclosure securely.

4. Thirty-five feet of plastic tubing is supplied and must be cut in two sections. Connect one section of tubing from the gauge’s high-pressure port to the pressure fitting located in the dirty-air plenum. Connect remaining tubing from the gauge’s low-pressure port to the fitting in the clean-air plenum. Additional tubing can be ordered from your representative.

5. Zero and maintain the gauge as directed in the manufacturer’s Operating and Maintenance Instructions provided.

6. To install the Photohelic Gauge mounted in a NEMA 4, Weatherproof Enclosure, follow Steps 4 and 5.

---

**Note:** For use with solid-state timer only. All parts, except the mounting bracket shown in the Photohelic Gauge Standard Installation drawing are included with the NEMA 4, Weatherproof Enclosure.

---

Photohelic Gauge Wiring Diagram

Photohelic Gauge in Optional NEMA 4 Weatherproof Enclosure
Photohelic Gauge Installation

- 1/8-in NPT x 90° male elbow
- 1/8-in NPT adapter
- clean-air plenum
- 3/8-in flat washer
- 1/8-in NPT coupling
- mounting bracket
- #6-32 x 1/4-in mounting screws
- support structure mounting surface
- already installed in LP section
- already installed in BS1 section
- high-pressure port
- low-pressure port
- plastic tubing
- Photohelic gauge
- 1/8-in NPT x 90° male elbow
- 1/8-in NPT adapter
- dirty-air plenum
- 3/8-in flat washer
- 1/8-in NPT adapter
- 1/8-in NPT x 90° elbow
- static pressure tee
- 1/8-in NPT coupling
- 1/8-in NPT adapter
Operation

Pre-Start-Up Checklist

- All bolt connections tightened.
- All electrical connections made.
- Magnehelic gauge connected.
- LP mechanism unobstructed (i.e. no tools, lifting equipment, etc).
- Bags and cages installed.
- Ducting slide gates set/no obstructions in ducting.
- Filter access door(s) sealed.
- Product discharge gate or rotary air lock operational.
- Blower unobstructed and operational.

**IMPORTANT**

Replace corner shipping washers with provided explosion fasteners

These two parts come pre-assembled

- Blue side
- Rubber side
- Spacer (Fits in panel hole)

Extreme caution should be exercised when installing Explosion Relief Fasteners. It is recommended all fasteners be driven using a hand speed wrench or a ratchet wrench to ensure there will be no damage to the release washer.

Explosion Panel Fastener Detail
Explosion Vent

WARNING Personal injury, death, and/or property damage can result from material discharge during venting.

The material discharged during the venting of an explosion must be safely directed outdoors away from areas occupied by personnel to reduce risk of personal injury and/or property damage.

The risk of personal injury and/or property damage can be minimized or avoided by locating vented equipment outside buildings and away from normally occupied areas.

Explosion vents should be inspected regularly to confirm physical and operational condition. Replace any damaged parts immediately.

Standard explosion vents are intended for outdoor installations only.

NOTICE Remove all shipping materials, including covers, from the explosion relief vents prior to installation. Failure to remove shipping covers will seriously compromise explosion vent operation.

Unless otherwise noted, the explosion venting calculations are based on formulas from NFPA-68 for outdoor applications only, with no duct or obstructions on the explosion vent panel.

Contact Donaldson Torit for assistance in calculating specific venting requirements for equipment.

NFPA 68 can provide guidance on both the frequency of and appropriate details for inspections.

Start up Sequence - Typical

1) Start rotary airlock (if applicable).
2) Start LP gear box motor.
3) Start LP fan.
4) Start main system fan.
5) Start process equipment.

Shut down Sequence - Typical

1) Stop process equipment. Allow filter to continue operating for 15-30 minutes.
2) Stop main system fan. Allow LP fan and gear box to continue running for 10-15 minutes.
4) Stop LP fan and gear box. Allow airlock to run for 15 min.
5) Stop airlock.
**Maintenance Information**

Donaldson Torit filters require little maintenance in most applications. Bags require cleaning or replacement on a periodic basis. The severity of the application will dictate the time interval for bag replacement.

The LP mechanism should be checked weekly to ensure proper operational status. Drive chain tension and lubrication of upper and lower bearing should be monitored. Check LP gear box oil level every 3 months. Top off gear box with AGMA 8C or equivalent.

Check LP fan wheel for noise and or vibration. Check fan wheel set screw and tighten if necessary.

Models equipped with slave drive airlock refer to airlock manual for maintenance instructions.

Bolt connections should be checked for integrity on a bimonthly basis. Also check the structural support for any signs of rust or fatigue and take appropriate steps to correct any problems.

**Troubleshooting**

Occasionally problems arise in dust control systems that require attention. Following are some tips for troubleshooting typical reverse air filter problems.

1) Monitor Magnehelic gauge readings - in most applications the gauge will indicate 2” - 4” of static pressure drop.

P) If pressure drop is consistently higher than 6” then the filter is either plugged or the LP mechanism is not functioning (i.e. LP fan or gear reducer are off or have failed).

S) Check for excessive or unusual dust loading at the dust source. Check for proper flow at product discharge flange on filter hopper. Check operation of LP fan. Check operation of LP gear box and drive.

P) If the pressure drop is consistently below 2” then the cleaning interval can be lengthened or there is a broken bag. Usually a broken bag will be accompanied by excess particulates in the exhaust air stream.

S) Check exhaust air stream for excess particulates. If found, shut filter system down and check for broken bag(s). Follow confined space procedures whenever servicing filter.

---

**DANGER**

**PERMIT - REQUIRED**

**CONFINED SPACE**

**DO NOT ENTER**

Check dust source for unusually low dust loading.

Some filter applications have third party timer sequencer panels that allow the LP mechanism to be turned on only when the static pressure reaches a preset level. If this is the case, then the interval between cleaning can be increased.
## Service Notes

<table>
<thead>
<tr>
<th>Date</th>
<th>Service Performed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Service Notes

<table>
<thead>
<tr>
<th>Date</th>
<th>Service Performed</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.

Parts and Service

For genuine Donaldson replacement filters and parts, call the Parts Express Line. For faster service, have unit’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
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 AD3827601 (ENG), Revision 3
May 2017