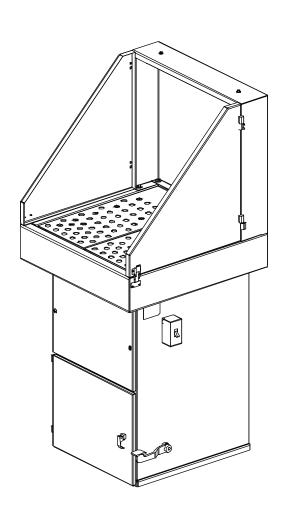


Downdraft Bench

DB-800

Installation and Operation Manual

Installation, Operation and Service Manual





This manual contains specific precautions related to worker safety. The hazard alert image denotes safety related instructions and warnings in this manual. DO NOT operate or perform maintenance on this collector until you have read and understood the instruction and warnings contained within this manual.

IMPORTANT NOTES

This manual has been supplied to assist with the installation, operation and maintenance for the collector purchased. Please read the manual before installing, operating, or performing maintenance on the collector as it contains specific precautions for worker safety. It is the owner's responsibility to ensure that this manual is available for use by installers, operators and maintenance personnel that will be working with this collector. This manual is the property of the owner and should be left with the collector when installation has been completed. DO NOT operate this collector until you have read and understood the instructions and warnings located in this manual.

For additional copies of this manual, contact Donaldson Torit.



The Safety Alert Symbol indicates a hazardous situation which, if not avoided could result in death or serious injury. Obey all safety messages following this symbol to avoid possible injury or death. The possible hazards are explained in the associated text messages.

NOTICE

NOTICE indicates a potential situation or practice which is not expected to result in personal injury, but which if not avoided, may result in damage to equipment.

Contents

IMPORTANT NOTES	
1 Safety Communication	1
2 Product Description	3
3 Operation	
4 Product Service	6
Filter Replacement	6
Iroubleshooting	1(
Appendix A - Installation	11
Electrical Wiring	13
Hinged Side Panels	14
Options and Accessories	15
Magnehelic® Gauge	15
Start-up / Commissioning	17
Decommissioning	18
Product Information	19
Service Notes	19
Donaldson Industrial Air Filtration Warranty	20

 $\label{eq:magnehelic} \textit{Magnehelic}^{\circledR} \ \text{is a registered trademark of Dwyer Instruments, Inc.}$

Safety Communication



Improper operation of dust collectors and/or dust control systems may contribute to conditions in a work area or facility which could result in severe personal injury, and product or property damage. All dust collection equipment should be used only for its intended purpose and should be properly selected and sized for its intended use.

Process owners have important responsibilities relating to identifying and addressing potential hazards in their processes. When the potential for handling combustible dust exists within a process the process owner should include combustion hazards in their risk management activities and should comply with applicable codes and standards related to combustible dust.

Electrical installation must be performed by a qualified electrician.

This equipment is not designed to support site ducts, piping, or electrical services. All piping or electrical services must be adequately supported to prevent injury and/or property damage.

Site selection must account for wind, seismic zone, and other load conditions.

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

Most dusts present safety and health hazards that require precautions. Wear eye, respiratory, head and other protection equipment suitable for the type of dust.

Some components may be heavier than they appear. Use appropriate lifting methods to avoid personal injury and/or property damage.

Combustible Dust Hazards

Among other considerations, the current NFPA standards require owners whose processes involve potentially combustible materials to have a current Dust Hazard Analysis, which can serve as the foundation for their process hazard mitigation strategy. Mitigation may include but is not limited to:

- Prevention of all ignition sources from entering any dust collection equipment.
- Selection and implementation of fire and explosion mitigation, suppression, and isolation strategies appropriate for the risks in their process.
- Development and use of work practices to maintain safe operating conditions, and to ensure combustible dust does not
 accumulate within their plant or process equipment.

Donaldson designs, manufactures, and sells industrial air filtration products for a wide variety of applications. Some applications may include processes or materials with inherent fire and explosion hazards. Donaldson is neither an expert nor a certified consultant in fire, spark, or explosion detection, suppression, or control. Donaldson does not provide engineering consulting services related to process or dust hazard analyses, or code and standard compliance. Complying with applicable codes and standards and managing the risks associated with the process or materials remains the responsibility of the process owner/operator. Donaldson may provide referrals to consultants, suppliers of equipment or services related to the detection and/or mitigation of sparks, fires and/or explosions, but Donaldson does not assume responsibility for any such referrals, nor does Donaldson assume any liability for the fitness of a mitigation strategy or product for a particular installation or application. The process owner's final selection of dust collectors and risk mitigation strategies should be based on the outcome of a Dust Hazard / Process Hazard Analysis performed by the process owner. Although early engagement of a dust collector supplier provides helpful insights on the availability and features of various products, process owners should consult with a combustible dust expert and/or a process safety expert before making actual product and mitigation strategy selections.

Donaldson recommends that all industrial air filtration system designs be reviewed and approved by an expert consultant who is responsible for the integrity of the system design and compliance with applicable codes and standards. It is the process owner's responsibility to understand the risks in their process and mitigate those risks in accordance with all applicable laws, regulations and standards, including those published by the NFPA. Donaldson also recommends that proper maintenance and housekeeping procedures and work practices be evaluated, developed, and followed to maintain any industrial air filtration products in safe operating condition.

Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the Donaldson products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, product specifications, and data (airflow, capacity, dimensions, or availability) are subject to change without notice, and may vary by region or country.

Product Description

The Downdraft Bench, Model DB-800 is a self-contained, intermittent-duty dust collector with envelope-style filters. Designed as a workstation for grinding, polishing, hand sanding, and dry buffing applications, the DB-800 features cotton sateen filter bags, prewired controls, and a LED light fixture.

Direct-drive, forward-curve fan provides 200-fpm minimum face velocity across the slotted-steel work surface designed to hold up to 50-lb per square foot. Hinged side panels open to accommodate larger work pieces and a manually operated filter shaker allows on-demand filter cleaning. Replace filters easily with the one-piece EZ Filter Pack™ and dispose of dust contained in the dust drawer from the front of the collector.

Intended Use

The Downdraft Bench provides excellent efficiency on nuisance dust generated in industrial operations, such as grinding, buffing and polishing without rouge, and hand-sanding operations.

Grinding: The Downdraft Bench has a baffle that limits particles from directly impinging with the filter bags reducing the risk of bag damage.

Buffing and Polishing: Buffing and polishing operations without rouges.

Hand Sanding: Light-duty hand sanding only. Avoid applications with explosive dust or welding operations.

Explosive Dust: Not intended for use with explosive dust.

Welding: Not recommended for welding operations due to the natural tendency for weld fumes to rise and Downdraft Benches develop a downward airflow. Use the Donaldson Torit Weld Bench in these operations.

Rating and Specification Information

General rating and specification information can be found in the product literature provided with the collector and is available on the Donaldson website. For specific load values for a collector, refer to drawings shipped with the collector.

Standard Equipment

Standard equipment consists of a self-contained collector housing the filters, fan blower, clean- and dirty-air chambers and dust drawers.

Options and Accessories

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 condition. The high-pressure tap is located in the dirty-air plenum and the low-pressure tap is located in the clean-air plenum.

Work Surface Rubber Mat

An optional 5/8-inch thick nitrile-rubber mat is available for the Downdraft Bench. Used to protect the work piece during buffing or grinding operations, the mat is oil, grease, alkali and acid resistant, and suitable for aircraft components.

Operation



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

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

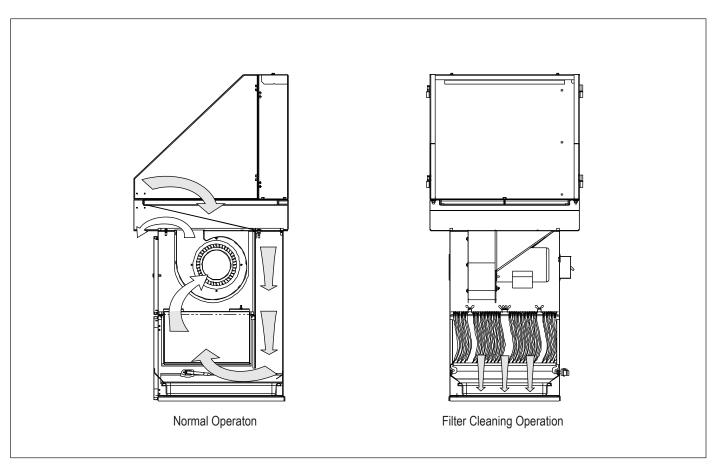
Turn compressed air supply off, bleed and lock out lines before performing service or maintenance work.

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.

During normal operation, dust-laden air enters the DB-800 through the slotted-steel work surface. Heavy particulate falls into the dust drawers and fine particulate collects on the outside surface of the filter bags. Clean, filtered air passes through the center of the EZ Filter Pack™ into the clean-air chamber, and discharges through the clean-air outlet.

The DB-800 is an intermittent-duty collector, which means that filter cleaning cannot start until the fan is turned OFF and fan rotation has stopped. Pushing down on the hand- or foot-operated shaker pedal and releasing rapidly six times completes manual filter cleaning. The releasing action causes the dust cake to fracture and fall into the dust storage area.



Collector Operation

Product Service



During service activities there is some potential for exposure to the dust in the collector. Most dusts present safety and health hazards that require precautions. Wear eye, respiratory, head and other protection equipment suitable for the type of dust when performing any service activities.

Use appropriate access equipment and procedures.

LOCK-OUT all energy sources prior to performing any service or maintenance on the equipment.

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

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 continuous-duty applications.
- 2. Monitor pressure drop across filters.
 - Abnormal changes in pressure drop may indicate a change in operating conditions and possibly a fault to be corrected.
- Monitor exhaust.
- 4. Monitor dust disposal. Empty the dust drawers at the end of each shift, or more frequently if necessary. Dust drawers should be emptied when they are more than 2/3 full.

Cleaning Cycle

- 1. Clean the filters once each day depending on load circumstances.
- 2. Allow fan to coast down.
- 3. Depress the cleaning pedal or handle.
- 4. Release to allow cleaning pedal or handle to drop rapidly.
- Repeat step 4 six to eight times.

Dust Disposal

- Shut the collector OFF prior to emptying the dust container (bin, drawer, pail, or drum).
- 2. Empty when dust container is no more than 2/3 full. Check integrity of gasket under container cover. Replace gasket if worn or damaged.
- 3. Manually clean the filters following cleaning cycle instructions.
- 4. When the cleaning cycle is complete, open the filter access door.
- 5. Reach inside the opening and grasp the dust container (drawer) edge, pulling it out of the collector.
- 6. Transfer dust from the dust container to a suitable disposal site and dispose of dust in accordance with local requirements for the materials being collected.
- 7. Replace or reinstall dust container.

NOTICE

The collector should not be operated without the dust container in place and should not be serviced while collector is running. Do not service the dust container without turning the collector OFF.

8. The collector can now be returned to service.

Filter Replacement



Most dusts present safety and health hazards that require precautions. Wear eye, respiratory, head and other protection equipment suitable for the type of dust.

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

Dirty filters may be heavier than they appear. Use appropriate lifting methods to avoid personal injury and/ or property damage.

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

Do not operate with missing or damaged filters.

EZ Filter Pack

- 1. Remove upper door and open lower door.
- 2. Loosen the filter pack slide latch wing screws and move the slide latches away from the gasket by sliding them inward.



This is easier when the filter pack is supported with one hand on the bottom side.

3. Remove the center support bar by unscrewing the wing screws on each end.



This is easier when the filter pack is supported with one hand on the bottom side.

- 4. Allow the filter pack to collapse in the center and remove it by guiding it out the bottom side of the sealing frame and dispose of in accordance with local requirements for the materials being collected.
- 5. Inspect and clean the sealing surface if necessary.

NOTICE

Clean dust from gasket sealing area to ensure a positive filter seal.

- 6. Check for an accumulation of dust in the storage area and empty as necessary.
- 7. Remove banded EZ Filter Pack from box. Do not remove bands.
- 8. Fully loosen wing screws.
- 9. Move slide latches to the rear, away from the gasket.



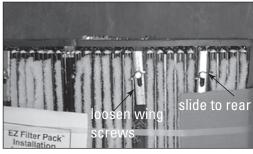
Step 1



Step 2



Step 3



Steps 7-9

- 10. Insert banded EZ Filter Pack over shaker bar.
- 11. Rest banded EZ Filter Pack on shaker bar.
- 12. Cut and remove bands and cardboard protectors.
- 13. Insert one hand midway under each side of the EZ Filter Pack. Push EZ Filter Pack to bottom of cabinet filter frame.
- 14. Important place one hand under center of EZ Filter Pack, holding EZ Filter Pack against bottom of cabinet ledge. Do not tighten wing screws at this time.
- 15. Adjust EZ Filter Pack for good fit. Finger tighten wing screws.
- 16. Remove support bar from box.
- 17. Place support bar over center of EZ Filter Pack.
- 18. Insert small wing screws through holes in support bar. Hand tighten all wing screws.
- 19. Inspect filter seal.
- 20. Insert clean dust pan.
- 21. Install and close doors.
- 22. The collector can now be returned to service.



Step 10



Step 11



Step 12



Step 13



Step 14



Step 15



Step 16



Step 17



Step 18



Steps 19-21

Troubleshooting

Fan blower and motor starter installed Check for proper motor starter and replace if necessary.	Problem	Probable Cause	Remedy
The content of the co		Improper motor wire size	
voltage Input circuit down Electrical supply circuit down Check power supply circuit for proper voltage. Check for fuse or circuit breaker fault. Replace as necessary. Fan blower and motor start, but do not stay running Access doors are open or not closed tight Damper control not adjusted properly Electrical circuit overload Electrical circuit overload Check for proper motor starter and replace if necessary. Close and tighten access doors. See Filter Installation. Check airflow in duct. Adjust damper control until proper airflow is achieved and the blower motor's amp draw is within the manufacturer's rated amps. Electrical circuit overload Check that the power supply circuit has sufficient power run all equipment. Inlet too large for collector rating Contact installer of dust collection equipment.		Not wired correctly	motor manufacturer's wiring diagram. Follow wiring
Electrical supply circuit down Check power supply circuit for proper voltage. Check for fuse or circuit breaker fault. Replace as necessary. Incorrect motor starter installed Access doors are open or not closed tight Damper control not adjusted properly Damper control not adjusted properly Electrical circuit overload Electrical circuit overload Check power supply circuit for proper voltage. Check for fuse or circuit breaker fault. Replace as necessary. Check for proper motor starter and replace if necessary. Close and tighten access doors. See Filter Installation. Check airflow in duct. Adjust damper control until proper airflow is achieved and the blower motor's amp draw is within the manufacturer's rated amps. Check that the power supply circuit has sufficient power run all equipment. Inlet too large for collector rating Contact installer of dust collection equipment.			Correct wiring for proper supply voltage.
Fan blower and motor starter installed Check for proper motor starter and replace if necessary.		Input circuit down	Check power supply to motor circuit on all leads.
running Access doors are open or not closed tight Damper control not adjusted properly Electrical circuit overload Electrical circuit overload Close and tighten access doors. See Filter Installation. Check airflow in duct. Adjust damper control until proper airflow is achieved and the blower motor's amp draw is within the manufacturer's rated amps. Check that the power supply circuit has sufficient power run all equipment. Inlet too large for collector rating Contact installer of dust collection equipment.		Electrical supply circuit down	Check power supply circuit for proper voltage. Check for fuse or circuit breaker fault. Replace as necessary.
Check airflow in duct. Adjust damper control until proper airflow is achieved and the blower motor's amp draw is within the manufacturer's rated amps. Electrical circuit overload Check that the power supply circuit has sufficient power run all equipment. Inlet too large for collector rating Contact installer of dust collection equipment.	start, but do not stay running	Incorrect motor starter installed	Check for proper motor starter and replace if necessary.
properly airflow is achieved and the blower motor's amp draw is within the manufacturer's rated amps. Electrical circuit overload Check that the power supply circuit has sufficient power run all equipment. Inlet too large for collector rating Contact installer of dust collection equipment.			Close and tighten access doors. See Filter Installation.
run all equipment. Inlet too large for collector rating Contact installer of dust collection equipment.			
		Electrical circuit overload	Check that the power supply circuit has sufficient power to run all equipment.
		Inlet too large for collector rating	Contact installer of dust collection equipment.
Tan readon sacrification to destine distribution from the	Insufficient airflow	Fan rotation backwards	motor side or counterclockwise when viewed through the
Access doors open or not closed tight Check that all access doors are in place and secured. Check that the hopper discharge opening is sealed and that dust container is installed correctly.			Check that the hopper discharge opening is sealed and
Fan exhaust area restricted Check fan exhaust area for obstructions. Remove materior debris. Adjust damper flow control.		Fan exhaust area restricted	Check fan exhaust area for obstructions. Remove material or debris. Adjust damper flow control.
Dust storage area overfilled or Clean out dust storage area. See Dust Disposal. plugged			Clean out dust storage area. See Dust Disposal.
Collapsed or plugged duct Clean duct of all debris. Replace collapsed duct.		Collapsed or plugged duct	Clean duct of all debris. Replace collapsed duct.
Improper duct sizing Contact installer of dust collection equipment.		Improper duct sizing	Contact installer of dust collection equipment.
EZ Filter Pack plugged Shake filter packs a minimum of once a day. Brush or manually clean filter packs plugged with sticky or fibrous material. Replace filter packs that do not clean properly be shaking. See EZ Filter Replacement.		EZ Filter Pack plugged	manually clean filter packs plugged with sticky or fibrous material. Replace filter packs that do not clean properly by
Manual shaker mechanism Check that the roll pin is in place. Replace if necessary. malfunctioning			Check that the roll pin is in place. Replace if necessary.

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Appendix A - Installation

Installation



Electrical Installation (including bonding and grounding of the collector) must be performed by a qualified electrician.

This equipment is not designed to support site ducts, piping, or electrical services. All ducts, piping, or electrical services must be adequately supported to prevent injury and/or property damage.

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

Service must be performed by trained and qualified maintenance personnel.

Turn all power off and lock out all power before performing service or maintenance work. It is not unusual for the equipment to be operated from a remote location, so equipment may start or stop unexpectedly.

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

Location and Site Selection



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.

Equipment location must conform to all codes and standards, should be suitable for the type of dust being handled and should ensure easy access for service and utility connections. Site selection must account for wind, seismic and other load condidtions.

The equipment must be anchored once in final position. Anchors must comply with local code requirements. Anchors, foundation or 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.

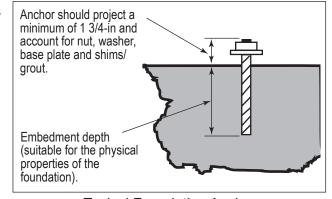
Follow industry practice relative to clean air velocity into a fan.

Provisional Anchor Bolt Recommendations

The quantity of anchor bolts should match the number of holes provided in the base plates of the collector. Anchor diameter is typically 1/8-inch less than the baseplate hole diameter. Anchors should project a minimum of 1 3/4 -inch and account for nut, washer, baseplate, and shims/grout.

Delivery and Inspection

Upon arrival inspect equipment and report any damage to delivery carrier. File any damage claims with the delivery carrier. Request a written inspection report from the Claims Inspector to substantiate all damage claims.



Typical Foundation Anchor

Compare the equipment received with the description of product ordered. Report any incomplete shipments to the delivery carrier and your Donaldson Torit representative.

Unloading and Positioning



Equipment should be lifted only by qualified crane or fork truck operators.

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

- 1. Remove any crates or shipping straps.
- Lift the packaged collector from transport container.
- 3. Inspect for any damage and/or missing parts and report to freight carrier.
- 4. Check for any hardware which may have become loose during shipment and tighten as necessary.

Lifting Information



Failure to lift the equipment or sub-assemblies correctly can result in severe personal injury and/or property damage. Only qualified crane or forklift operators should be allowed to lift equipment.

- 1. Use all lifting points provided.
- 2. Use clevis connectors, not hooks, on lifting slings.
- 3. Use spreader bars to prevent damage to equipment.
- 4. Check the Specification Control drawing for weight and dimensions of the collector and components to ensure adequate crane capacity.
- 5. Lift collector and accessories separately and assemble after collector is in place.
- 6. Use drift pins to align holes in section flanges during assembly.

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 all power off and lock out all power before performing service or maintenance work. It is not unusual for the equipment to be operated from a remote location so equipment may start or stop unexpectedly.

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

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

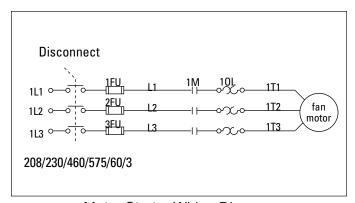
- 1. Make the electrical connections to the customer-supplied safety disconnect switch, fan blower, and fan motor starter.
- 2. Turn power ON at source.
- 3. Turn the fan blower motor ON then OFF to check for proper rotation by referencing the rotation arrow located on the fan housing. A fan blower running in the wrong direction will still deliver approximately 40% of its rated air volume making proper rotation extremely important.

To reverse rotation, single-phase power supply:

Follow manufacturer's instructions on the motor's nameplate.

To reverse rotation, three-phase power supply:

Turn electrical power OFF at source and switch any two leads on the output-side of the fan-motor starter.



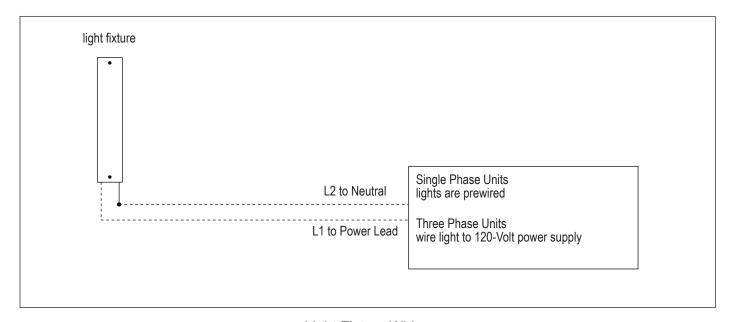
Motor Starter Wiring Diagram

Industrial Light, Three-Phase Units

- 1. Wire the light fixture to a 120-Volt power supply.
- 2. Install customer-supplied LED bulbs.

Hinged Side Panels

The DB-800 is equipped with right and left, lift-off hinged side panels. Open or remove panels when working with items too large or awkward for the work surface. Keep the panels closed under normal operating conditions.

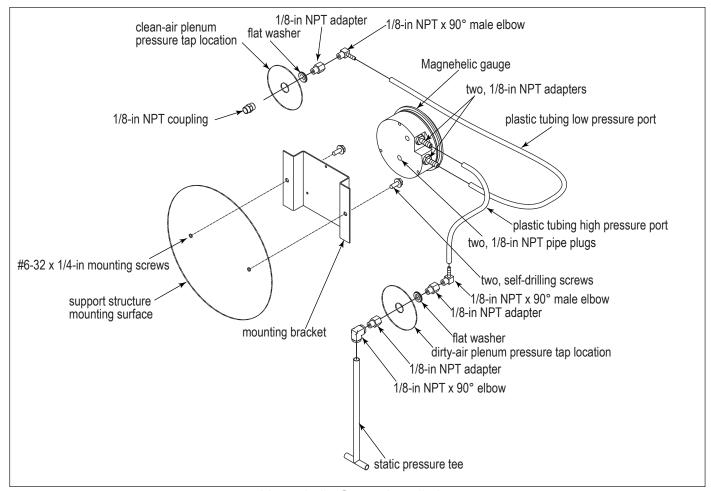


Light Fixture Wiring

Options and Accessories

Magnehelic[®] Gauge

- 1. Choose a convenient, accessible location on or near the collector for mounting that provides the best visual advantage. If collector is equipped with factory-installed pressure taps, skip to Step 5.
- Before drilling, place a piece of non-combustible cloth over the filter opening in the clean-air plenum to protect them from drilling chips.
- 3. Place a piece of wood behind the drill location in the dirty-air plenum to protect the filters from damage by the drill bit.
- 4. Mount the pressure tap hardware on the clean-air plenum panel and the dirty-air plenum.
- 5. 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.
- 6. Attach the mounting bracket using three, #6-32 x 1/4-in screws supplied.
- 7. Mount the gauge and bracket assembly to the supporting structure using two, self-drilling screws.
- 8. Thirty-five feet of plastic tubing is supplied and must be cut in two sections for vacuum pressure systems. 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.
- 9. Carefully remove the cloth protecting the filters. Close access doors and tighten securely by hand.
- 10. Zero and maintain the gauge as directed in the manufacturer's Operating and Maintenance Instructions provided.



Magnehelic Gauge Installation

Start-up / Commissioning

Instruct all personnel on safe use and maintenance procedures.



Electrical installation, service, or maintenance work must be performed by a qualified electrician and comply with all applicable national and local codes. This equipment may start or stop unexpectedly from a remote location.

Turn all 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 operate in classified hazardous atmospheres without an enclosure rated for the application.

- 1. Check all electrical connections for tightness and contact.
- Check for proper rotation on all motors as described below.



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

Check that the exhaust plenum is free of tools or debris before checking fan rotation.

Stand clear of exhaust to avoid personal injury.

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

- a. "Bump" the fan to initiate rotation.
- b. As the fan is winding down (unpowered) compare fan rotation to the rotation label (located on fan housing) direction.
- 3. If the fan rotation is reversed, correct the rotation.

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.

- a. Turn power to the collector OFF and Lock-Out all energy sources.
- b. Within the junction box, swap the connection location of two power leads on the terminal block, making certain not to swap a power lead and the ground wire.



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

- 4. Ensure all equipment access panels are sealed and secure.
- 5. Check that the dust container or dust discharge device is properly attached to the collector (if supplied).
- 6. Check that fan exhaust damper is set to the fully-closed position (if supplied).
- 7. Check and remove all loose items in or near the inlet and outlet of the collector.
- 8. Check that all remote controls and solenoid enclosures (if applicable) are properly wired and all service switches are in the OFF position.
- 9. Check that all optional accessories are installed properly and secured.
- 10. Turn power ON at source.
- 11. Turn fan motor ON.
- 12. Turn ON remaining optional accessories.
- 13. Ensure any and all fire and explosion mitigation systems are engaged and armed.

Decommissioning

Once the collector has reached the end of operational life it will need to be decommissioned.



During decommissioning, there is potential for exposure to the dust in the collector. Most dusts present safety and health hazards that require precautions. Wear eye, respiratory, head, and other protection equipment suitable for the type of dust when performing any decommissioning activities.

LOCK-OUT all energy sources prior to performing any decommissioning activities on the equipment.

Electrical service must be performed by a qualified electrician.

Disconnection of ducts must be performed by a qualified contractor.

- 1. Lock-out all energy sources to the collector, material handling system and other associated equipment.
- 2. Remove all filters from the collector and dispose of in a suitable fashion for the dust in the collector. (See Filter Replacement for removal instructions).
- 3. Disconnect electrical power from the collector and material handling system components and remove any associated conduit or from the exterior of the collector.
- 4. Disconnect all ducts from the collector.
- 5. Remove anchor bolts.
- 6. Secure all collector components to a suitable transport carrier and transport to a disposal site suitable for the dust in the collector.

Donaldson Company, Inc.

Product Information (Process Owner to complete and retain for your records)

Model Number	_ Serial Number
Ship Date	_ Installation Date
Filter Type	
Collected Dust	
Dust Properties: KstPmax	MIEMEC
Accessories	
Other	

Service Notes

Date	Service Performed	Notes

Donaldson Industrial Air Filtration Warranty

Donaldson warrants to the original purchaser only that the Goods will be free from defects in material and manufacture for the applicable time periods stated below: (1) Major structural components for a period of ten (10) years from the date of shipment; (2) Non-Structural, Donaldson-built components and accessories including Donaldson Airlocks, TBI Fans, TRB Fans, Fume Collector products, Donaldson built electrical control components, and Donaldson-built Afterfilter housings for a period of twelve (12) months from date of shipment; and (3) Donaldson-built filter elements for a period of eighteen (18) months from date of shipment.

Buyer is solely responsible for determining if goods fit Buyer's particular purpose and are suitable for Buyer's process and application. Seller's statements, engineering and technical information, and recommendations are provided for the Buyer's convenience and the accuracy or completeness thereof is not warranted. If, after Seller receives written notice, within the warranty period, that any goods allegedly do not meet Seller's warranty, and Seller, in its sole discretion, determines that such claim is valid, Seller's sole obligation and Buyer's exclusive remedy for breach of the foregoing warranty or any Seller published warranty, will be, at Seller's option, either: (i) repair or replacement of such goods or (ii) credit or refund to Buyer for the purchase price from Seller. In the case of repair or replacement, Seller will be responsible for the cost of shipping the parts but not for labor to remove, repair, replace or reinstall the allegedly defective goods. Refurbished goods may be used to repair or replace the goods and the warranty on such repaired or replaced goods shall be the balance of the warranty remaining on the goods which were repaired or replaced. Any repair or rework made by anyone other than Seller is not permitted without prior written authorization by Seller, and voids the warranty set forth herein. Seller warrants to Buyer that it will perform services in accordance with the Sales Documents using personnel of required skill, experience and qualifications and in a professional and workmanlike manner in accordance with generally recognized industry standards for similar services. With respect to any services subject to a claim under the warranty set forth above, Seller shall, in its sole discretion, (i) repair or re-perform the applicable services or (ii) credit or refund the price of such services at the pro rata contract rate and such shall be Seller's sole obligation and the exclusive remedy for breach of the foregoing warranty on services. Products manufactured by a third party ("Third Party Product") may constitute, contain, be contained in, incorporated into, attached to or packaged together with, the goods. Buyer agrees that: (a) Third Party Products are excluded from Seller's warranty in this Section 7 and carry only the warranty extended by the original manufacturer, and (b) Seller's liability in all cases is limited to goods of Seller's design and manufacture only. EXCEPT FOR SELLER'S WARRANTY OF TITLE TO THE GOODS, SELLER EXPRESSLY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES WHATSOEVER, WHETHER, EXPRESSED OR IMPLIED, ORAL, STATUTORY, OR OTHERWISE, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY AND ANY WARRANTIES ARISING FROM TECHNICAL ADVICE OR RECOMMENDATIONS, COURSE OF DEALING OR OF PERFORMANCE, CUSTOM OR USAGE OF TRADE. Seller's obligations do not cover normal wear and tear or deterioration, defects in or damage to any goods resulting from improper installation, accident or any utilization, maintenance, repair or modification of the goods, or any use that is inconsistent with Seller's instructions as to the storage, installation, commissioning or use of the goods or the designed capabilities of the goods or that, in its sole judgment, the performance or reliability thereof is adversely affected thereby, or which is subjected to abuse, mishandling, misuse or neglect or any damage caused by connections, interfacing or use in unforeseen or unintended environments or any other cause not the sole fault of Seller, and shall be at Buyer's expense. Seller's warranty is contingent upon the accuracy of all information provided by Buyer. Any changes to or inaccuracies in any information or data provided by Buyer voids this warranty. Seller does not warrant that the operation of the goods will be uninterrupted or error-free, that the functions of the goods will meet Buyer's or its customer's requirements unless specifically agreed to, or that the goods will operate in combination with other products selected by Buyer or Buyer's customer for its use.

The terms of this warranty may only be modified by a special warranty document signed by a Director, General Manager or Vice President of Donaldson. To ensure proper operational performance of your equipment, use only genuine Donaldson replacement parts.

This Product is provided subject to and conditioned upon Donaldson's Terms of Sale ("Terms"), a current copy of which is located at termsofsale.donaldson.com. These Terms are incorporated herein by reference. By purchasing or using this Product, the user accepts these Terms. The Terms are available on our website or by calling our customer service line at 1-800-365-1331.



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IMPORTANT NOTICE: Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, product specifications, availability and data are subject to change without notice, and may vary by region or country.

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