



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

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1

Safety Communication



Improper operation of dust, fume or mist collectors and/or dust, fume or mist 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, fume or mist 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 particulate exists within a process the process owner should include combustion hazards in their risk management activities and should comply with applicable codes and standards relating to combustible hazards.

Electrical installation 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.

Site selection must account for applicable load conditions such as wind, seismic and snow.

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

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 (DHA), 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, fume, or mist 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 particulate does not accumulate within their plant or process equipment.

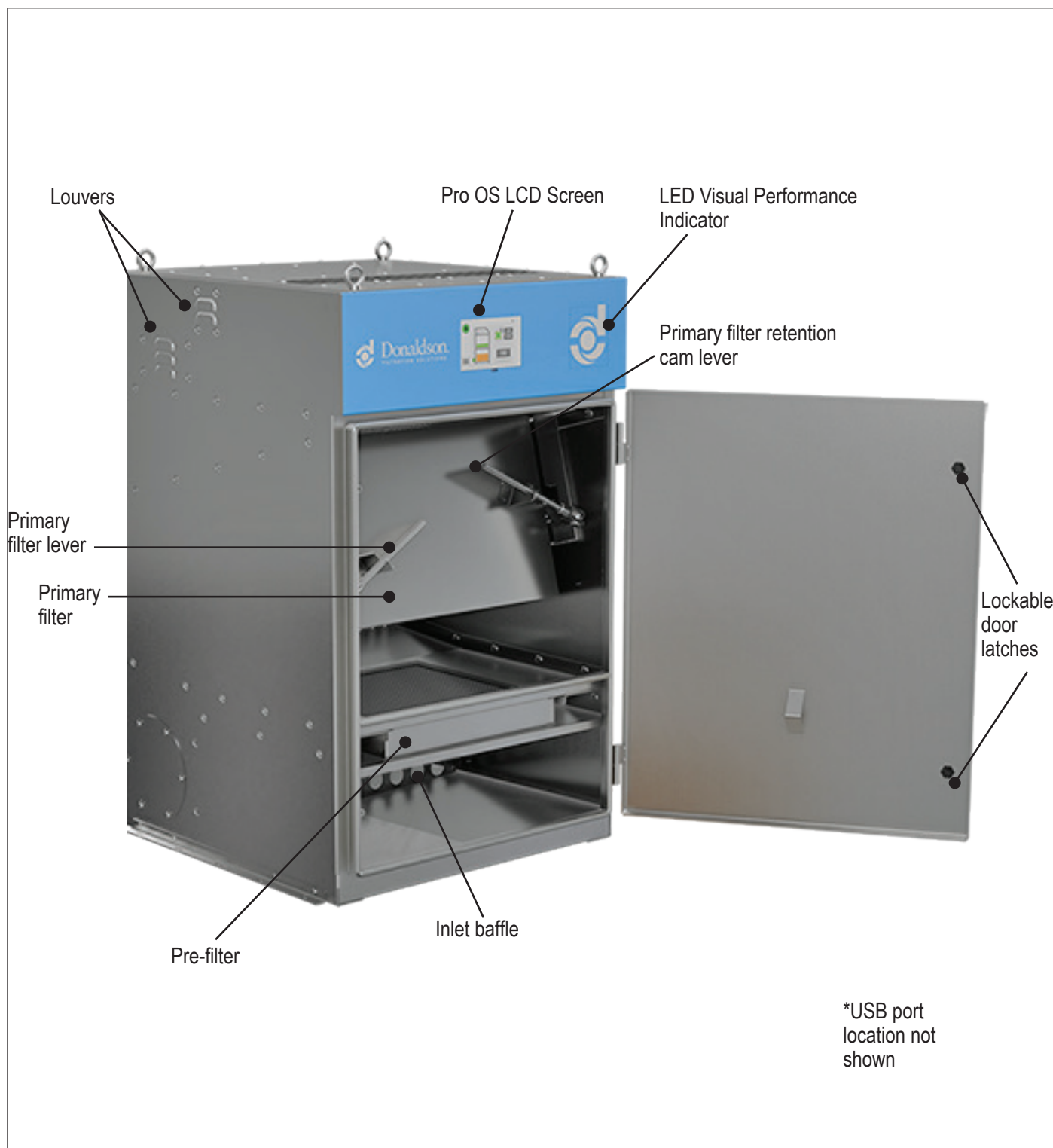
Donaldson designs, manufactures, and sells industrial air filtration products for a wide variety of applications. Some applications may include processes or materials with inherent fire and explosion hazards. Donaldson is neither an expert nor a certified consultant in fire, spark, or explosion detection, 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, fume, or mist collection equipment 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 manufacturer 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.

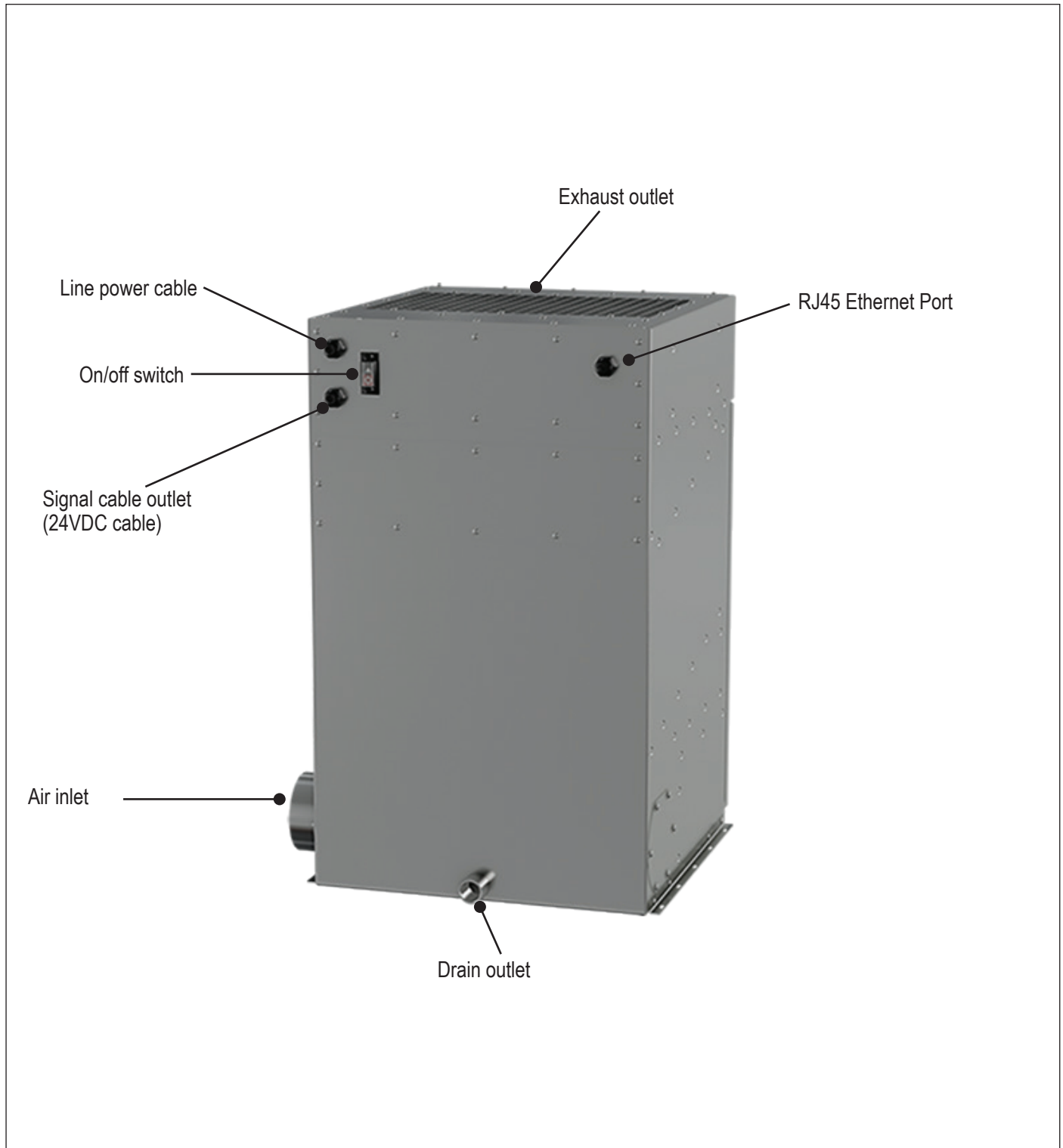
Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the 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.

2 Product Overview

Front view of Stratos

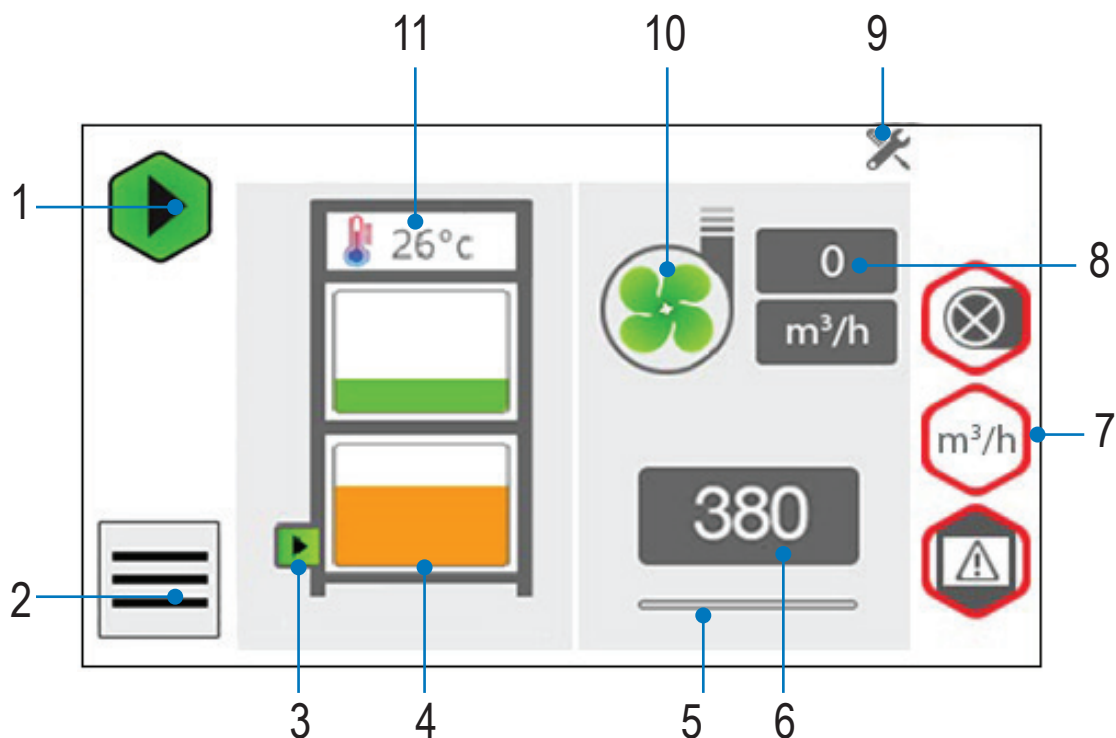


Rear view of Stratos



Pro OS LCD Control Panel Overview

The diagram below shows an overview of LCD touchscreen features.



Number	Feature	Function	Navigates to:
1.	Run control	Allows the operator to stop/start the extraction.	
2.	Menu		Menu screen
3.	System indication	Visual indication of inlet status.	System information screen
4.	Filter indication	Visual indication of filter condition.	Relevant filter data screen
5.	Airflow level indication	Visual indication of flow setpoint relative to maximum setpoint.	
6.	Airflow setpoint	Visual indication of airflow setpoint.	Airflow setting screen
7.	Alarm notifications bar	Visual indication of alarm states. Shows activated alarms.	Alarms screen
8.	Actual flow	Visual indication of system flow. Configurable to CFM or m³/h.	
9.	Service indication	Always displayed. Links user to the support screen.	
10.	Blower status	Visual indication of blower status.	Blower diagnostics screen
11.	Temperature status	Visual indication of internal system temperature. Configurable to °F or °C.	

Collector Warning and Information Labels

Symbol	Meaning
	Read the manual prior to use for specific guidance on this product. Use proper safety and protective equipment, such as gloves, mask and eye protection when handling this product.
	Do not cover any louvers or holes on panels adjacent to the label.
	To reduce the risk of fire, electric shock or injury, electrical 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.
	Grounded (earthed) points located inside collector.

3 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 applicable load conditions such as wind, seismic and snow.

Note: Use industrial duct design best practices for optimal dust collector performance.

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.

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.

Do not block or cover the cooling vents on the mist collector, as this severely restricts airflow and may cause damage to the system.

Under no circumstances should the exhaust outlet(s) be covered as this will restrict the airflow and cause overheating.

1. Remove any crates or shipping straps.
 2. 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.
- Note: Check the filters are located in their correct position before closing the door and securing the door latches.



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.

Check the integrity of the electrical power cable. If the supply cord is damaged, the mist collector should not be connected to the line power. The supply cord should only be replaced by a qualified electrician and must comply with all applicable national and local codes.

The system **MUST** be connected to a properly grounded (earthed) outlet. Grounding (earthing) label(s) are located inside the collector near electrical components. After installation, a qualified electrician should verify continuity between components and confirm earthing to the ground.

Connection to power supply

Please follow the general rating and specification information found in the product literature provided with the collector and available on the Donaldson website when selecting the power supply outlet for the system. Ensure the power supply is suitable before connecting the system.

Pro OS Connectivity

The Pro OS model features connectivity via an RJ45 port which is located on the rear of the mist collector. This port can be used as 2-way communication, enabling the control of the system as well as live data streaming from the mist collector. For information on how to configure your device to communicate with Pro OS, contact your Donaldson Torit representative for a copy of the Donaldson PRO OS Communication Protocol Guide.

Remote stop/start signal (standard)

Enables the mist collector to be remotely turned on/off via an external signal.

Note: Care must be taken to ensure that the system is correctly wired in order for the mist collector to function correctly.

This configuration requires the black and red cores of the signal cable (refer to overview section for location) to be connected to a 12-24 VDC signal. The external power supply must be protected by double insulation from line power.

The operating voltage for this signal is between 12 and 24 VDC. Only voltages within this range should be connected.



Voltages connected outside of noted range may cause irreversible damage to the internal Pro OS board. Severe personal injury and/or property damage may result.

Red cable = +V (12 V to 24 V range)

Black cable = 0 V

When the mist collector is provided with the correct DC voltage, the blower will start and maintain the set flow rate. When the DC voltage is removed, the blower will slow down and come to a stop.

The mist collector will need to be turned on and be out of standby mode in order for this feature to operate.

System OK signal (standard)

When the filters become blocked or the mist collector develops a fault (refer to troubleshooting section), the connection between the green and white cables will become “open”.

When the mist collector is running normally, the connection between the green and white cables will become “closed”.

This feature will not directly stop the mist collector from running correctly, but if fitted, this feature should be terminated correctly before power is applied to the system.

Connection specification

This signal is available via the green and white cores of the signal cable. The system will provide a open/closed signal that can be connected to an external interface, beacon, or warning device following the specification below.

- **Maximum input voltage: 24 VAC**
- **Maximum current load: 3 AAC**

OR

- **Maximum input voltage: 24 VDC**
- **Maximum input load: 3 ADC**

The external power supply must be protected by double insulation from line power.

Lifting Information



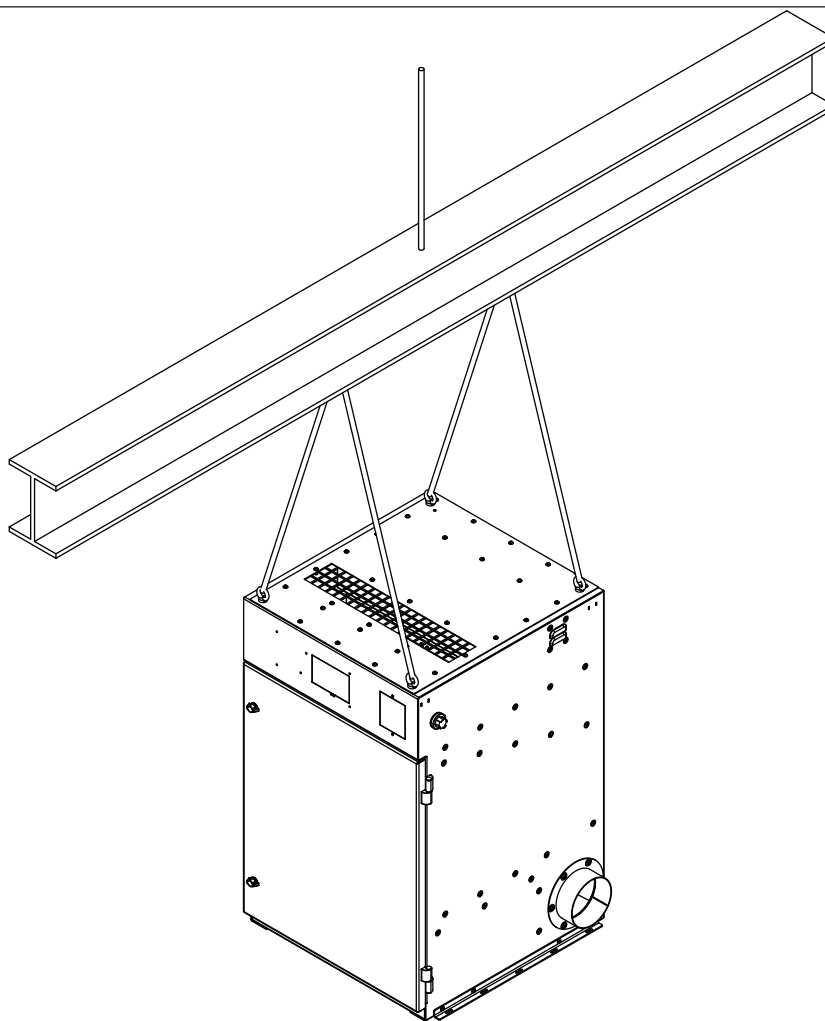
Failure to lift the equipment or sub-assemblies correctly can result in severe personal injury and/or property damage.

Only qualified crane or forklift operators should be allowed to lift equipment.

Lifting lugs are not intended for long-term support of equipment. If ceiling mount is required, an external structure (provided by others) must be designed to support dead and live loads and reduce chance of swaying during maintenance.

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 drawing(s) shipped with the collector 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.

Typical Lifting Guidance



Mounting Information



Failure to mount equipment securely or sub-assemblies correctly can result in severe personal injury and/or property damage.

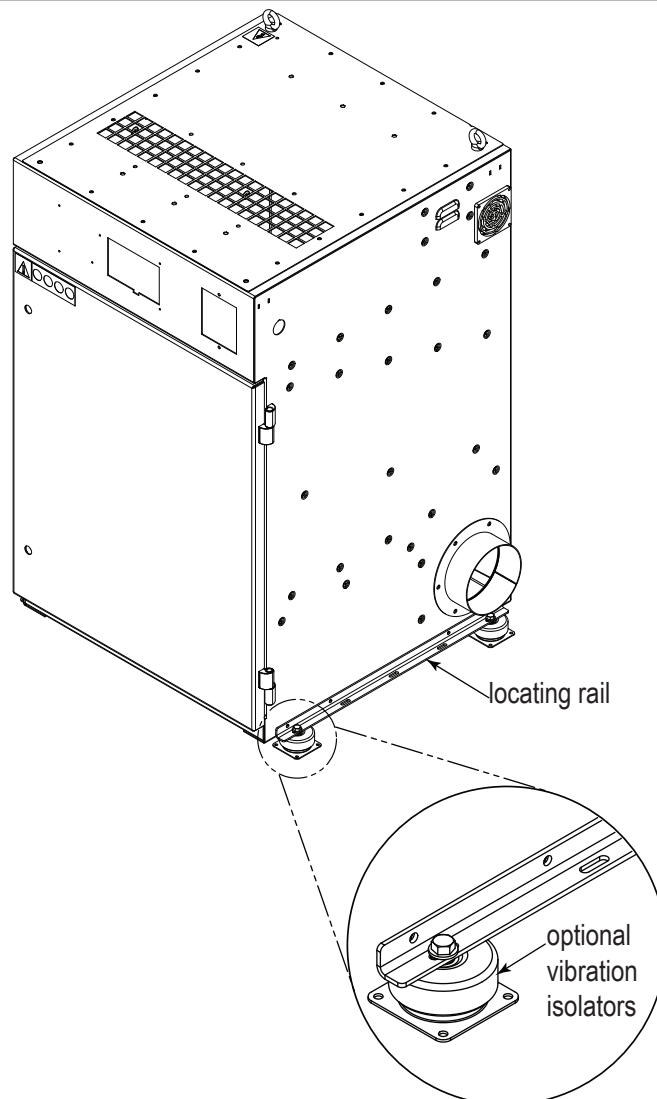
Only qualified operators should be allowed to mount equipment.

Locating rails are not intended as structural support for the collector. They are only intended for locating the collector onto the mounting supports. Stratos mounting must span underneath the collector for proper support.

Ensure collector mounting is able to support structural load of the collector with loaded filters.

Ensure ducting is installed by a qualified operator ensuring duct work is adequately supported to prevent severe personal injury and/or property damage.

1. While collector is lifted, position collector over the desired mounting location.
2. Place optional vibration isolators in position.
3. Lower collector down and secure with included fasteners on the locating rails.



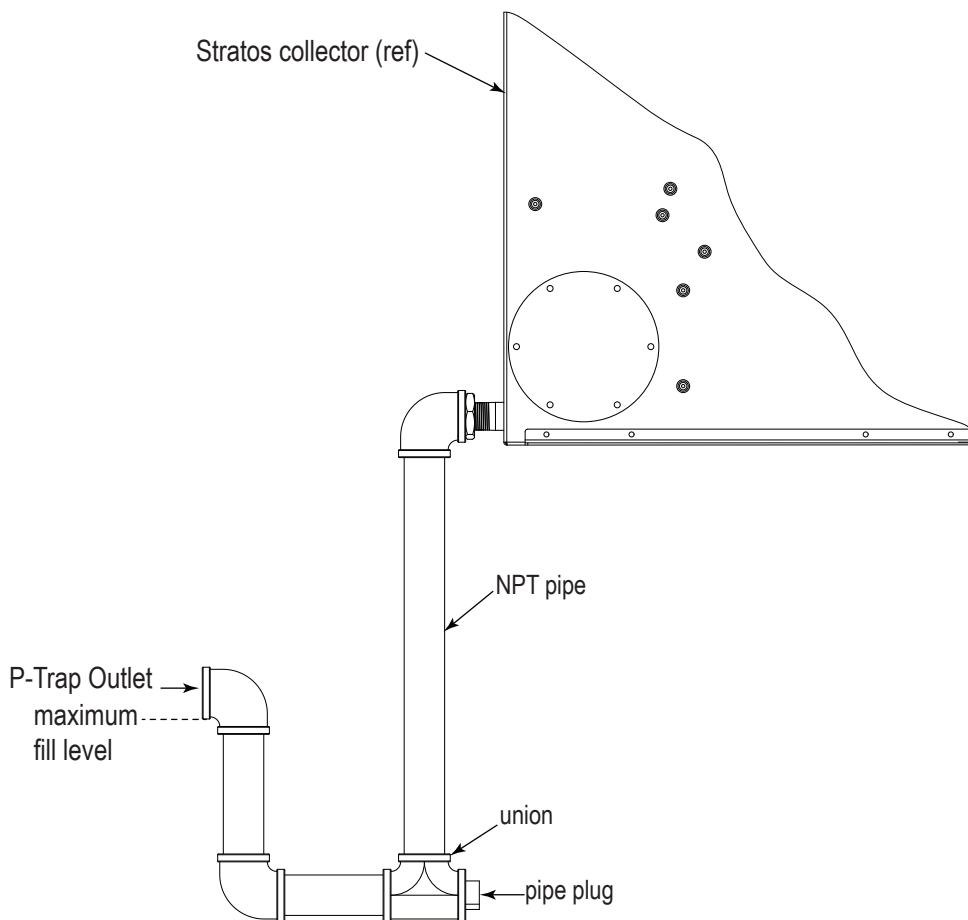
P-Trap Installation

NOTICE

Ensure collected material properly flows through the P-Trap. The P-Trap dimensions should accommodate a column of coolant greater than the static capacity of the fan to avoid coolant pooling in the collector and potentially causing property damage.

1. Install the P-Trap as shown below and position the P-Trap outlet show below and tighten the union.
2. Plumb the P-Trap to a receptacle or install a return line back to the machining center. Ensure location of receptacle is accessible for emptying
3. Fill P-Trap before starting collector.

Note: The characteristics of some machining fluids change with time, use, and exposure to air. Check the condition of the collected fluid before re-using.



P-Trap Installation

Drain Container Installation

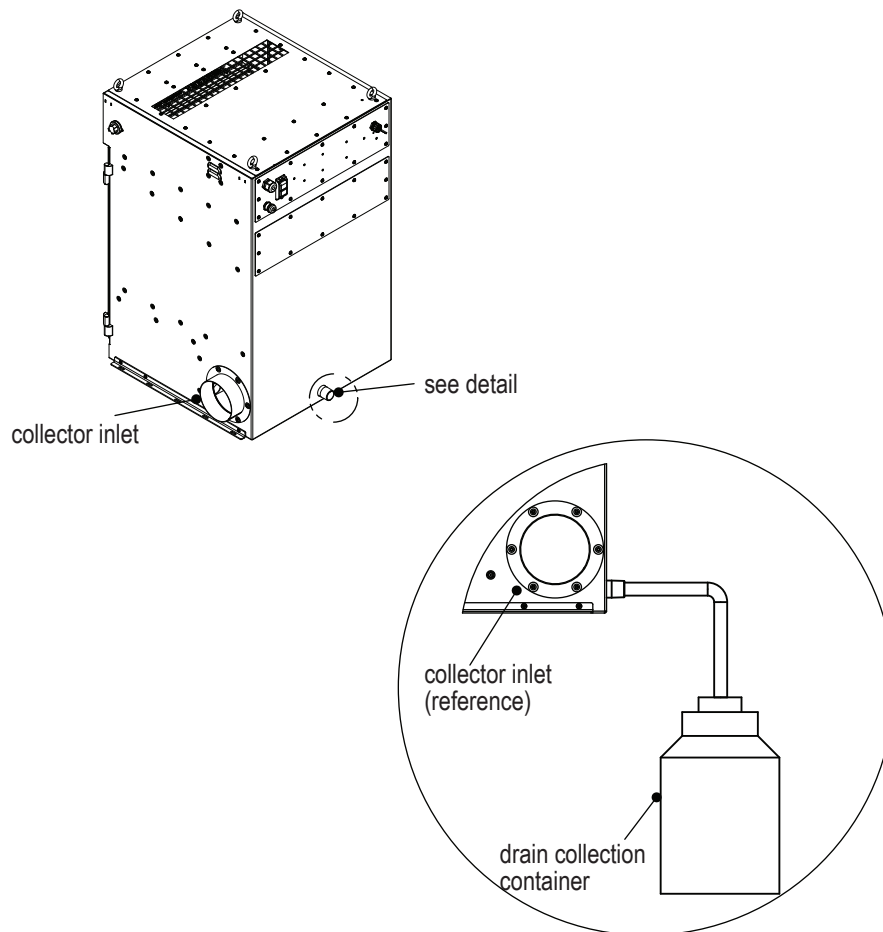
The optional drain collection container is intended for use where small amounts of liquid are collected and requires regularly scheduled maintenance. Failure to empty the collection container will result in inlet plenum overflow.

1. Install the drain container as shown. Connect tubing to the hose barb and secure to the collector.

NOTICE

Ensure collected material properly flows through the drain hose. The drain hose and receptacle should withstand a static pressure larger than 20 "wg.

2. Place receptacle in an accessible position for emptying when the drain container is full.
3. Ensure receptacle and hose are airtight and free of leaks after installation.

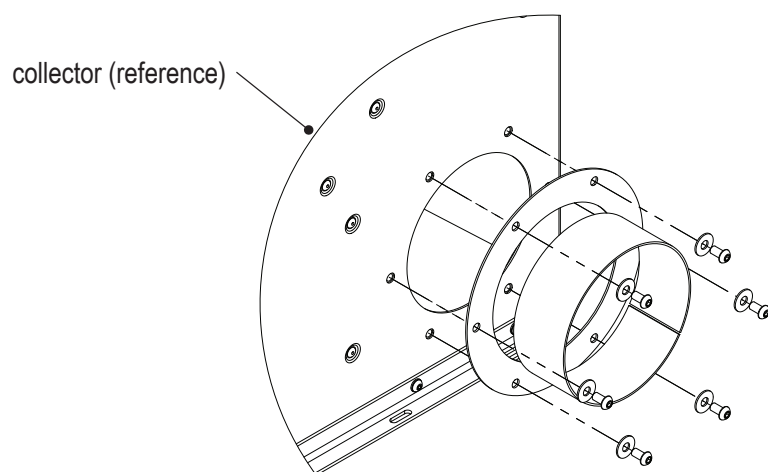


Drain Collection Container

Inlet Collar Installation

Install the inlet collar to the desired inlet location using the supplied sealant and hardware.

Note: For single-inlet configurations, install the inlet blank to the inlet opposite the inlet collar using the supplied sealant and hardware.

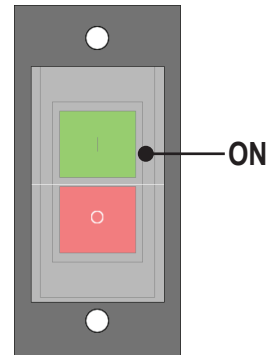


4 Operation

Turning mist collector on

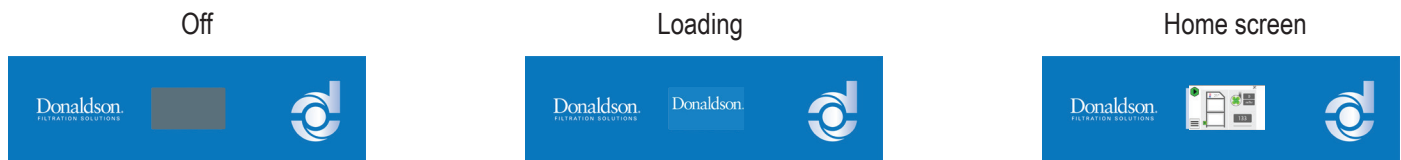
Use the line power switch on the rear of the mist collector to power up the mist collector. The screen will now illuminate.

It is recommended that the rear on/off switch is left in the ON position and the touchscreen is used to stop and start the blower (if the interface is not already controlling it).



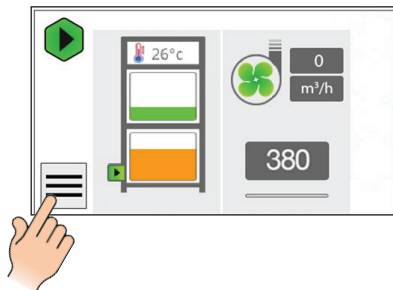
Power on cycle

Once the mist collector has been turned on, the below sequence will appear on the screen.



Accessing the menu and first time operation

During first time installation, it is recommended that you go to the “Settings” screen via the “Menu” screen to set up the mist collector as required.

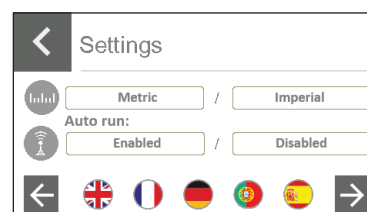
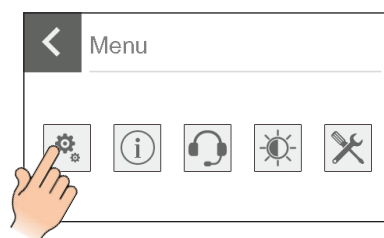


Settings

The settings feature has three programmable parameters:

1. Display units
2. Autorun
3. Language

To access the settings, follow the icons below:



Changing the display systems

The airflow and temperature readings can be displayed in two ways.

1. Temperature displayed as °C - Airflow displayed as m³/h on the metric setting (default)

OR

2. Temperature displayed as °F - Airflow displayed as CFM on the imperial setting

Enabling the autorun feature

Autorun ON: Mist collector will require external start signal as explained in remote stop/start signal .

Autorun OFF: Mist collector can be manually started using the “Play” button on the main screen.

Changing the language

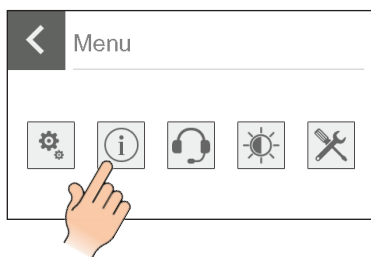
The system has nine programmable languages. Once the language has been selected it will automatically change the system, no restarts are necessary.

English (Default)	Spanish
French	Swedish
German	Polish
Dutch	Turkish
Italian	

Information

- PCB Serial number
- Software version
- Logging information

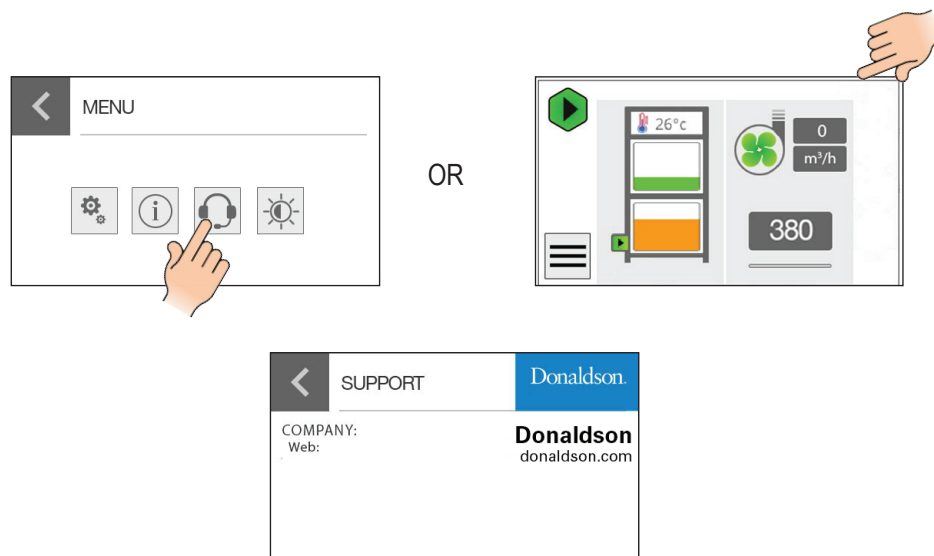
To access the “Information” screen, press the information icon:



< Information	
Serial Number	
Software Version	1.0.0-2000.01.01
Earliest Logging Date	
Name	
IP Address	fe80::aaaa:bbbb:cc cc:dddd

Support

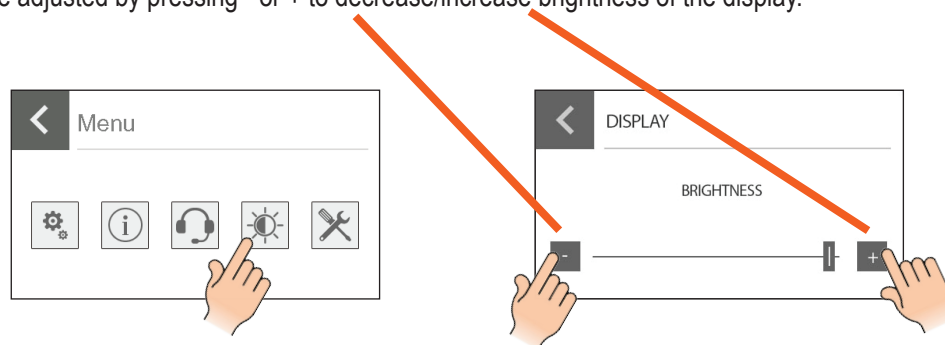
The “Support” screen will display contact information for technical and sales support. To access the “Support” screen, see the following icons:



Brightness

Selecting the brightness icon allows the user to configure the brightness of the display.

The brightness can be adjusted by pressing - or + to decrease/increase brightness of the display.



Run control

Run control enters the system into 1 of 2 states:

1. Off: System idle
2. Running: Blower active

The “Run control” button will change its appearance according to its usage based on the system operation mode.

Off state

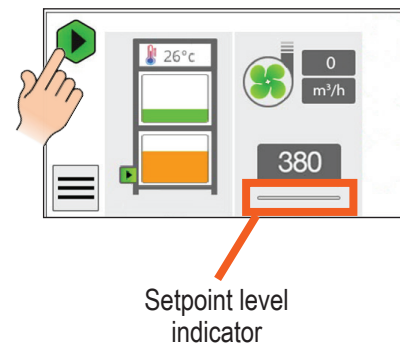
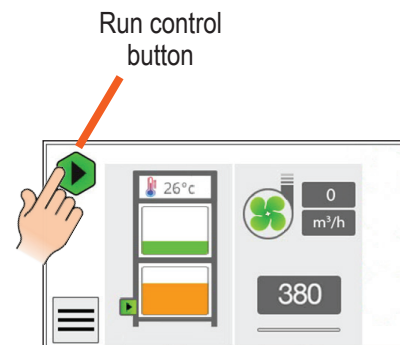
In the “Off state”, the blower is inactive and the “Run control” button will act as a “Start” button. The USB upload/download function is available (disabled in all other states).

Running state

When “Running”, the blower will be activated and the “Run control” acts as a “Stop” button.

The “Setpoint level indicator” gives a visual indication of target setpoint level relative to maximum achievable level.

Note: If the mist collector has the autorun setting enabled, the “Run control” button will be grayed out and the blower will be controlled via the interface cable. The mist collector can only be turned off manually once the autorun feature has been turned off.



Setting the desired airflow

The system features automatic flow control. This enables the user to set the required airflow rate, then over time, as the filters begin to block, the blower will automatically begin to increase in speed to compensate for any loss in performance caused by the added restriction of the partially blocked filters.

NOTICE

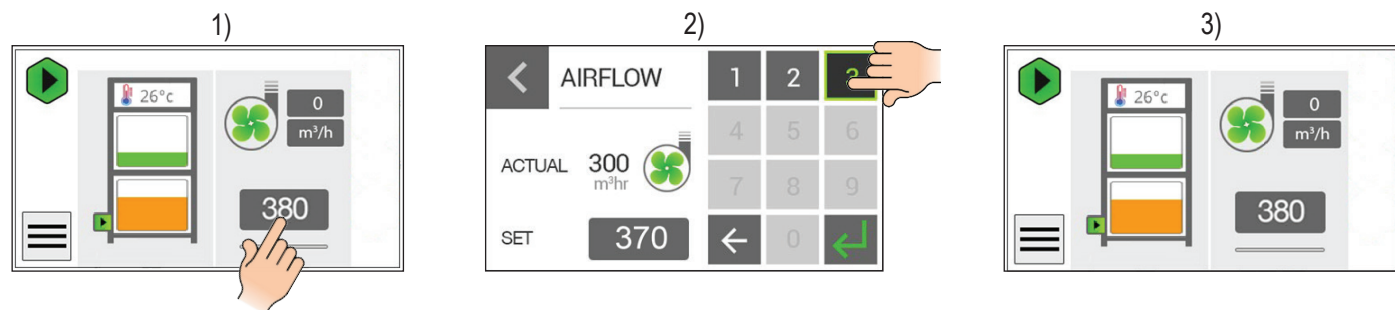
To ensure proper performance the mist collector and all pipework must be fully installed and connected before the airflow is set. Ensure pipework is sealed and leak free.

To set the airflow

The airflow can be set between 150-365 cfm (170-620 m³/h).

1. Press the “Airflow set point” button (refer to diagram below for button location).
2. The screen displayed has a numeric keypad. The numbers enabled depend on the flow limits of the system. The system has flow limits 150-365 cfm (170-620 m³/h). Upon entry, only numbers 1-3 will be enabled. If the user enters 5 then zero will be enabled. This will ensure that only an achievable flow setpoint can be entered.
3. Once you have entered a valid airflow, the “Enter” button will be enabled. Pressing “Enter” will save the entered setpoint and return the display to the “Main” screen. Once you have achieved your desired flow rate, release the controls. After approximately ten seconds, the flashing buttons will remain illuminated constantly to confirm that the flow rate has been stored.

The set flow rate will now be maintained throughout the life of the filter. When the mist collector can no longer maintain the set flow rate, an alarm will sound and the display will indicate which filter should be changed.

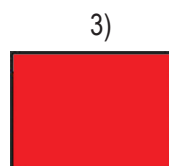
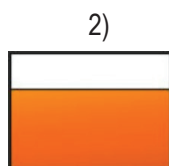
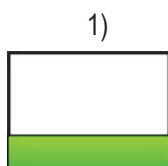


System status of filters and blower

Filter blockage level indication

The “Filter” icons will fill relative to their blocked value. The “Filter” icons color represent their health, refer to product service for replacement procedure:

Icon	Color	Filter status
1.	Green	Less than 75% blocked.
2.	Amber	Greater than 75% blocked.
3.	Red	Fully blocked.



Inlet status

The “Inlet status” icon gives visual feedback on the state of the inlet duct:

Icon	Color	Inlet icon status
	Green	OK.
	Amber	Warning: High vacuum on pipework.
	Red	Fault: Blockage.

If the amber or red icon appear, inspect the hose kit and installation (refer to product service). Reduce the restriction causing the high vacuum or blockage.

When the above “Inlet status” icon is pressed the “System information” screen as shown here is displayed.

The differential pressure across each section of the system is displayed. A system overview bar graph is displayed to easily visualize the pressures across the system.

- Inlet pressure
- Combined filter pressure
- Total system pressure
- Free: Available head pressure for system at current airflow

Each section has a red, amber or green warning icon indicating the health of the section.

The “Blower status” icon is displayed on numerous screens. Clicking the icon will navigate to the “Blower diagnostics” screen.

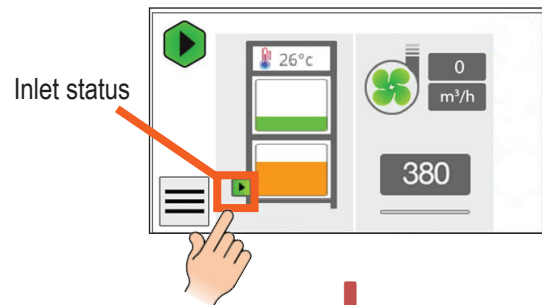
Blower diagnostics

Each connected blower is accessible from this screen. The blower selection bar is populated with the number of blowers connected to the system. The screen displays the following blower data:

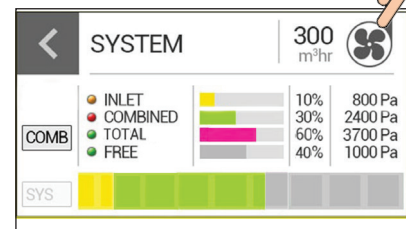
- RPM: speed
- Head: pressure: (Pa)
- Drive: voltage or PWM (blower dependent)

The blower selection icons will display red if an error has been detected with the associated blower.

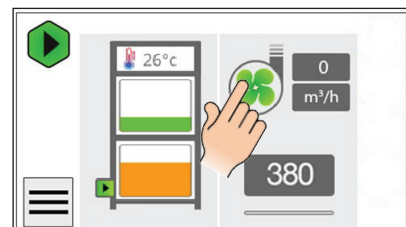
The “Back” button navigates the user back to the previous screen.



System information screen

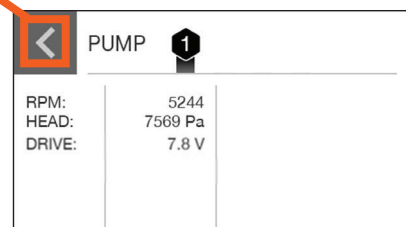


Home screen



back button

Blower diagnostics screen

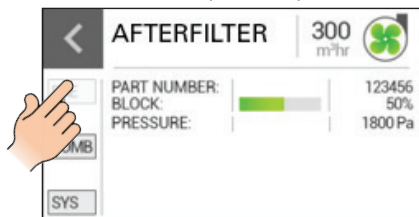


Filter status

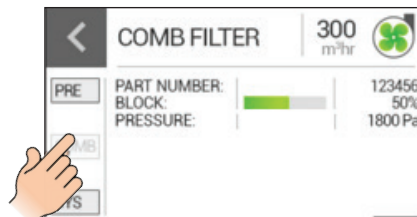
The Primary and Pre-filter (combined) and afterfilter (optional) screens hold all the data relevant to the state of the combined and pre-filter.

- Part number: Part number of required filter
- Block: Filter block level relative to achievable system pressure (%)
- Pressure: Differential pressure across filter (Pa)

Afterfilter (optional) screen



Combined filter screen



5 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.

After maintenance has been completed, check to ensure loose articles are not left inside the collector before resuming operation.

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.

3. Monitor exhaust.

4. Monitor hopper drainage. If slow or stopped, check hopper for obstructions and clean as necessary.

5. Check that the P-Trap is full. Refill if low or dry.

6. If equipped with a HEPA or 95% DOP, monitor pressure drop across after filter. Initial afterfilter pressure drop is approximately 1-2"wg. Replace the afterfilter when the gauge reads 3.5 to 4.0"wg. Do not attempt to clean or wash the afterfilter. Replace only.

NOTICE

Do not operate the collector without the primary and pre-filter **in** place. Significant reduction in afterfilter life can result.

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Filter Replacement



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

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

The Pro OS system constantly monitors the condition of the filter. As the filter blocks, the Pro OS display will show the relevant filter symbol filling up (see table in System status of filters and blower for filter blockage level indication details).

The filter requires attention when the display shows the filter blocked icon/filter output signal alarms or when the mist collector no longer removes fume efficiently.

It is recommended that a spare set of filters are kept on-site to avoid prolonged mist collector unavailability. Part numbers for replacement filters can be found on the filters fitted in your system.

To prevent overheating, mist collectors should not be run with a blocked filter condition, or with dust obstruction of inlets/outlets.

NOTICE

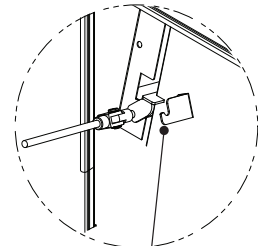
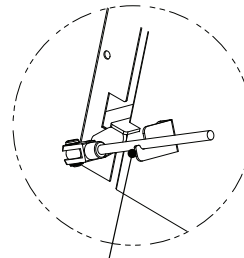
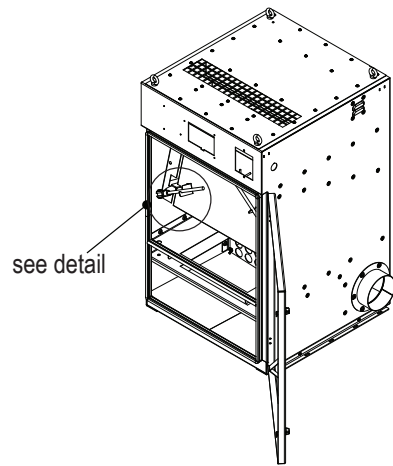
Remove any material that may have accumulated in the inlet or inlet baffle.

Primary and Pre-Filter

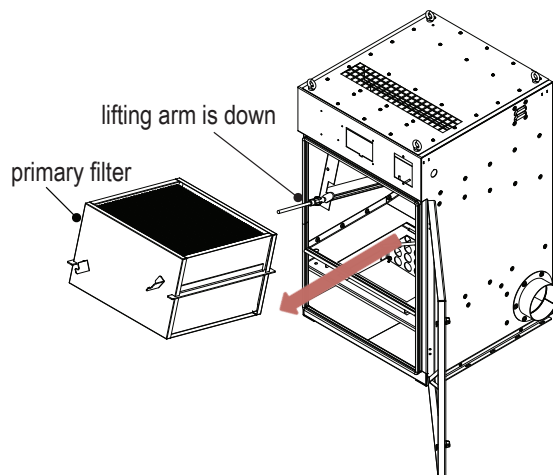
Note: With the collector's airflow off, allow mist-laden, wet filter to drain into the inlet plenum for at least 15 minutes prior to removal.

1. Turn all power to the collector off and open the collector door.
2. Rotate the lifting arms up and then away from the filter in the downward position.
3. Remove the dirty filter from the collector by pulling it out of the collector and dispose of in accordance with local requirements for the materials being collected.
4. Place the new filter on the retention rail and slide it into the collector until it stops.
5. Rotate lifting arms counter clockwise to lock them into the filter latch.
6. Remove the pre-filter by sliding it out from the filter shelf and dispose of in accordance with local requirements for the materials being collected.
7. Inspect and clean the baffle area of any chips if necessary.
8. Install the new pre-filter sliding it back into the filter shelf.
9. Close and latch the collector door.
10. The collector can now be returned to service.

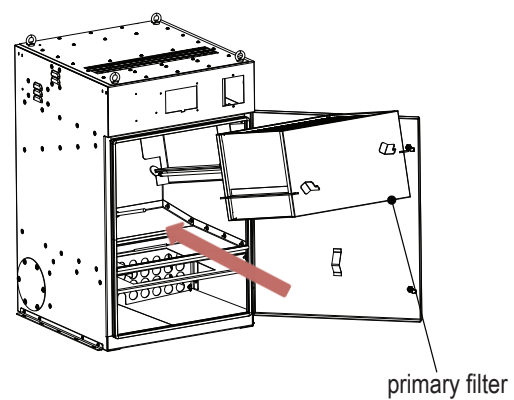
Step 2



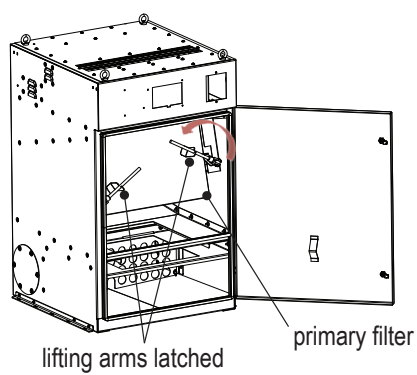
Step 3



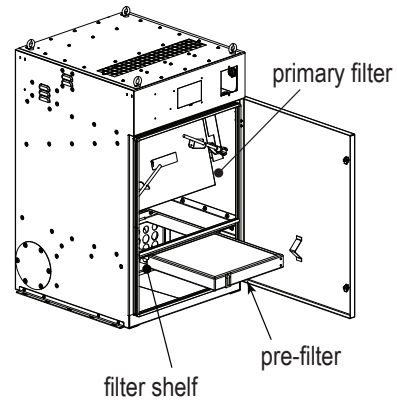
Step 4



Step 5



Step 6



Afterfilter Replacement (if supplied)

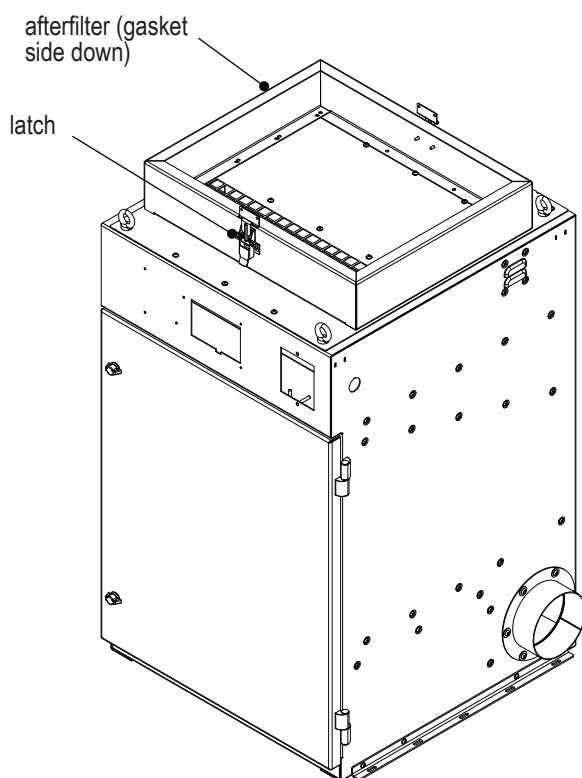
Note: The afterfilter must be replaced. Do not wash.

1. Unlatch the afterfilter on top of the collector.
2. Remove the filter and dispose of properly for the materials collected.
3. Inspect and clean the sealing surface if necessary.

NOTICE

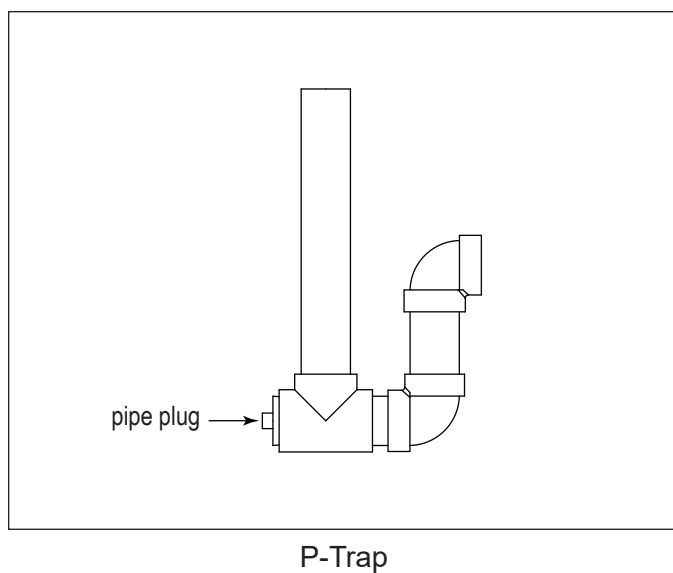
Clean dust from gasket sealing area to ensure a positive filter gasket seal.

4. Install new HEPA filter with the gasket facing the frame and the airflow arrow pointing away from the collector.
5. Latch the new filter in place.



P-Trap Service

1. Place a suitable container under the P-Trap, turn the collector OFF and remove the pipe plug.
2. Allow fluid and particulate to drain.
3. Use thread sealant and replace pipe plug.
4. Refill the P-Trap with suitable fluid before restarting the collector.



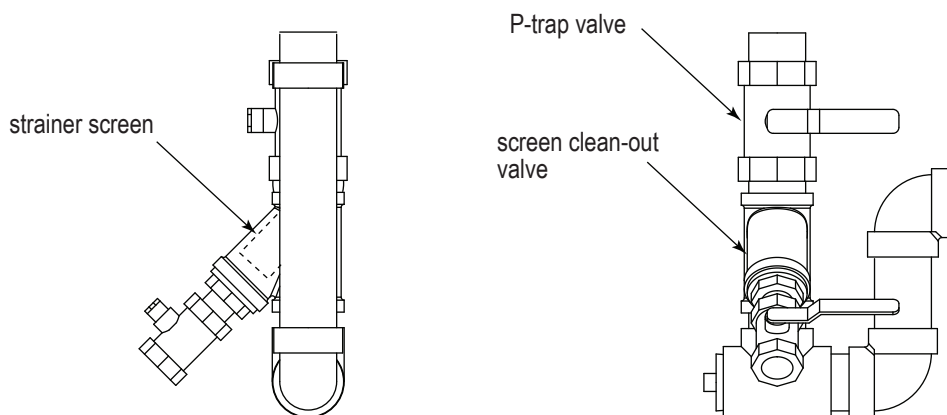
P-Trap with Y-Strainer, Screen Cleaning and Removal

1. Place a suitable container under the screen clean-out valve, turn the collector OFF, close the P-Trap valve, then open the screen clean-out valve.
2. Allow fluid and particulate to drain.
3. With the clean-out valve open, slowly open the P-Trap valve. This allows fluid still trapped in the hopper to drain.

NOTICE

A substantial amount of fluid may be trapped in the hopper and could exceed the container capacity. Open the P-Trap valve slowly.

4. Close the P-Trap valve.
5. Unscrew the screen cap and pull the screen out.
6. Clean the screen and the inside of the Y-strainer body and re-assemble taking care to seat the screen in the body and cap.
7. Close the clean-out valve.
8. Open the P-Trap valve.
9. Refill the P-Trap with suitable fluid before restarting the collector.



P-Trap with Y-Strainer

Drain Container Replacement

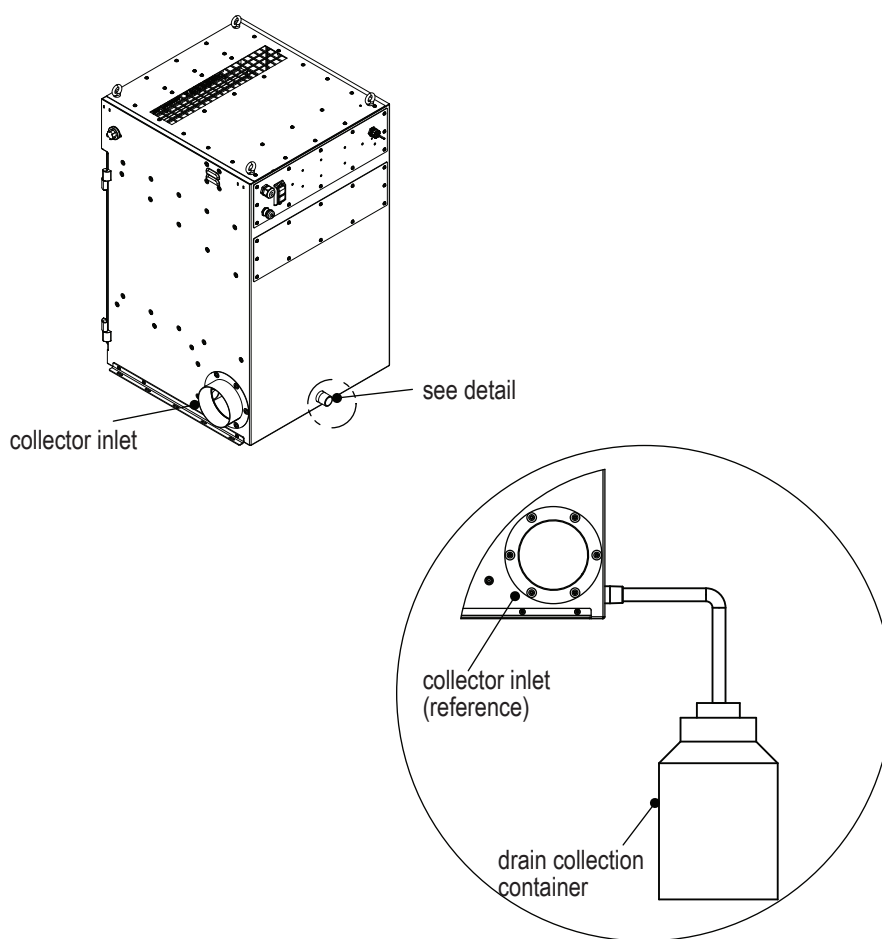
1. Turn collector OFF and let drain for 15 minutes.

NOTICE

The optional drain collection container is intended for use where small amounts of liquid are collected and requires regularly scheduled maintenance. Failure to empty the collection bottle will result in inlet plenum overflow.

2. Remove the drain collection container by unscrewing the container from the cap.
3. Clean the container and faucet and re-install.

Note: Close the faucet before turning the collector back ON.



Drain Collection Container

Afterfilter Retrofit Field Installation

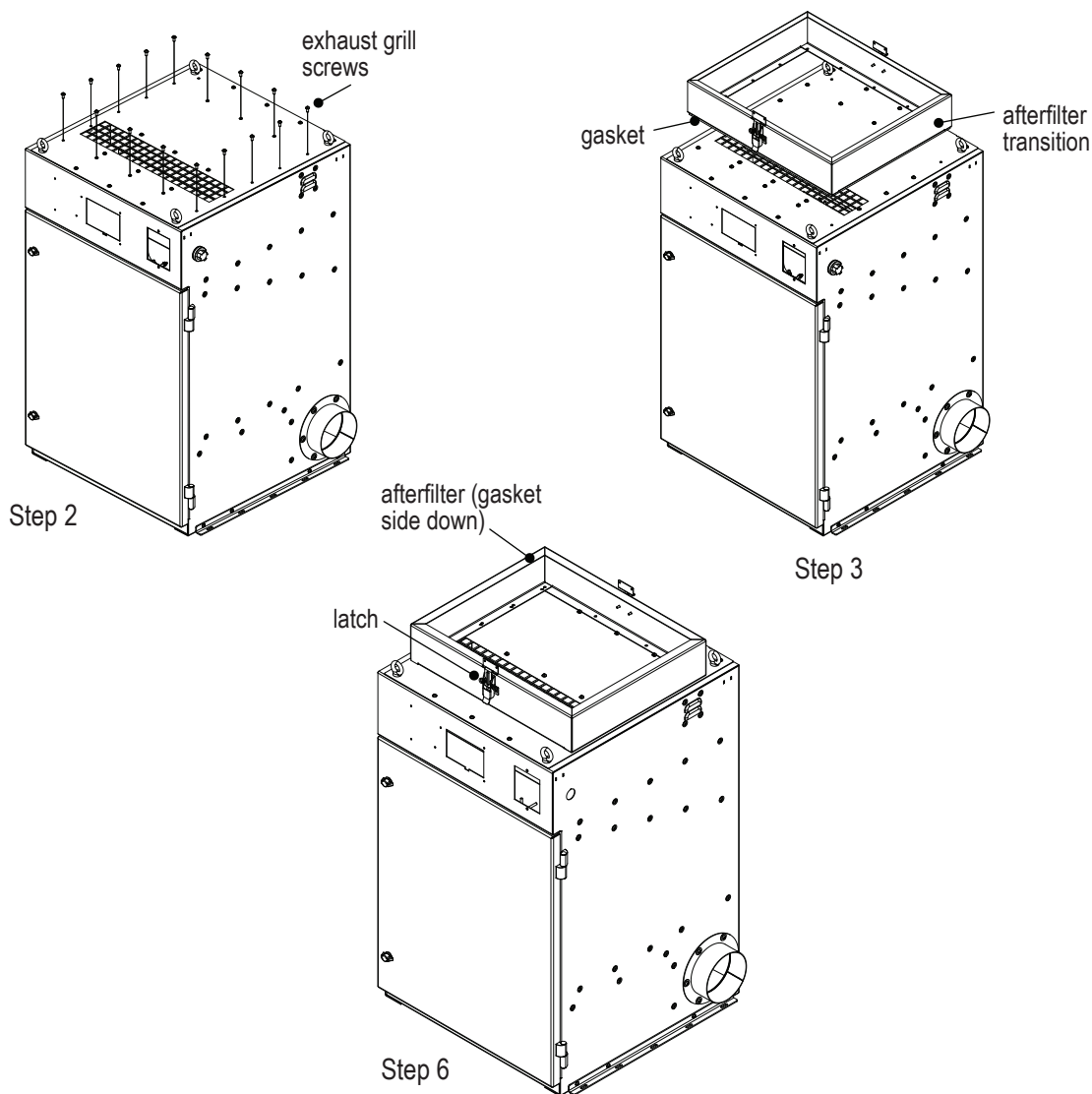
An afterfilter installation kit is available for customers who decide to add a HEPA or 95% DOP filter to an existing field-operating Stratos collector originally configured with a standard exhaust. The field kit includes: afterfilter transition, latches and hardware.

1. Turn all power off and lock out all power before performing service or maintenance work.
2. Remove exhaust grill screws as shown below.
3. Install afterfilter transition on top of exhaust grill. Line up afterfilter transition holes with screws removed in step 2.
4. Fasten screws to secure the afterfilter transition ensuring compression of gasket.

NOTICE

For optimal performance, ensure afterfilter gasket is fully compressed.

5. Place the afterfilter, gasket side down, on top of the afterfilter transition, and secure with the latches.



6 System display

USB connectivity

For both download and upload connectivity, the system must be on before inserting the USB drive. Once on, Pro OS will allow data to be uploaded or downloaded to/from the system:

Upload

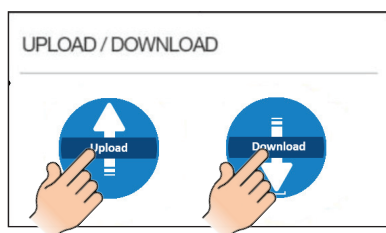
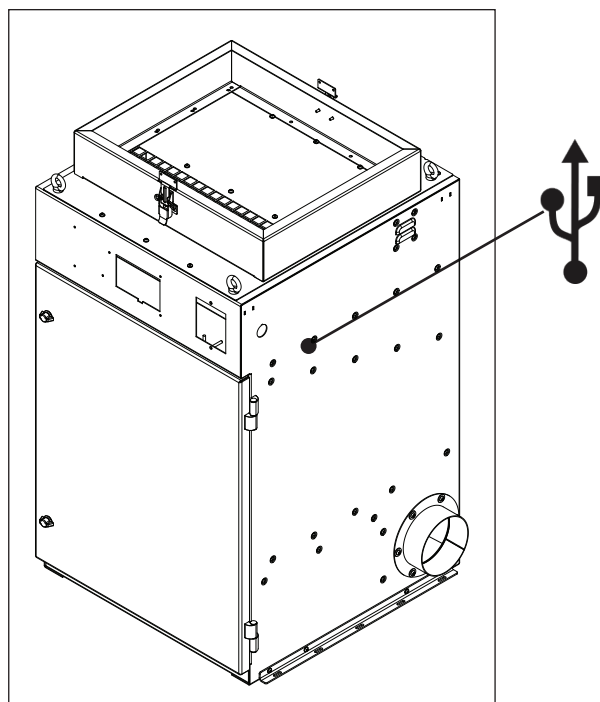
- Configuration files
- Software updates

Download

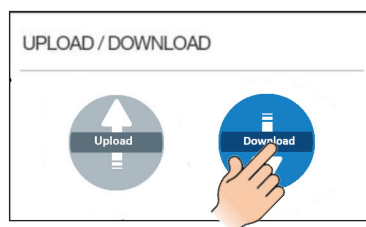
- System data file

Pro OS will allow the user to choose between uploading or downloading data. If no upload data is detected to install, Pro OS will only allow the user to download.

Upload/download



Both options
available

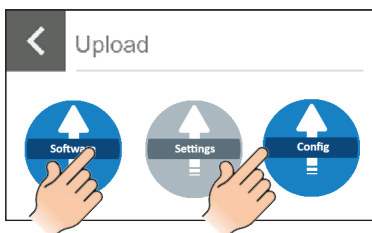


No data detected -
"Download" available

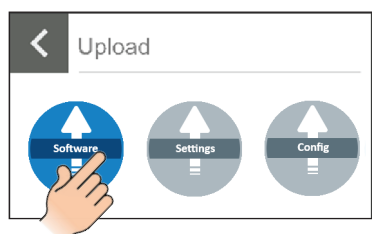
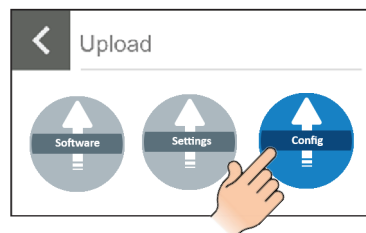
If the user selects "Install" in the "Upload/download" selection screen, they will be navigated to the "Upload" screen. There are two types of upload available:

- Configuration Data: Configuration parameters for mist collector
- Software: Software update file

Pro OS will read the data on the attached memory stick and enable the file choice icon if a corresponding file is discovered:



"Upload" screen – software
and config file detected

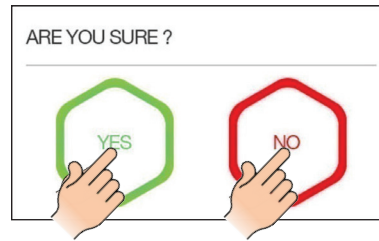


"Upload" screen – only
software file detected

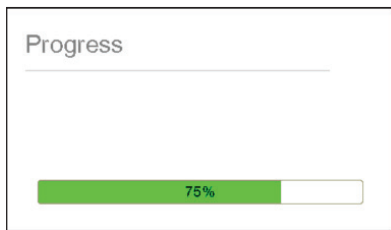
Once the user has selected their required action, the system will ask them to confirm:

- No: Navigates the user to the previous screen.
- Yes: Commence with selected action.

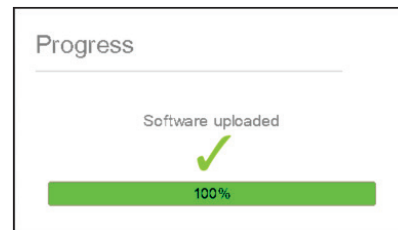
Once the action has been confirmed, the system will commence. A progress bar and numeric reading gives the user feedback of the state of the transaction:



"Confirmation" screen

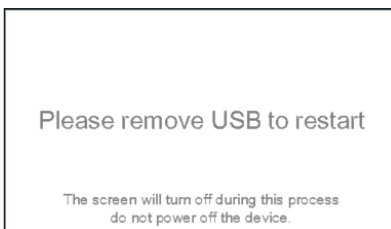


"Progress" screen -
transaction in
progress



"Progress" screen -
transaction
successfully
completed

Once the action has been completed, the system is required to restart.



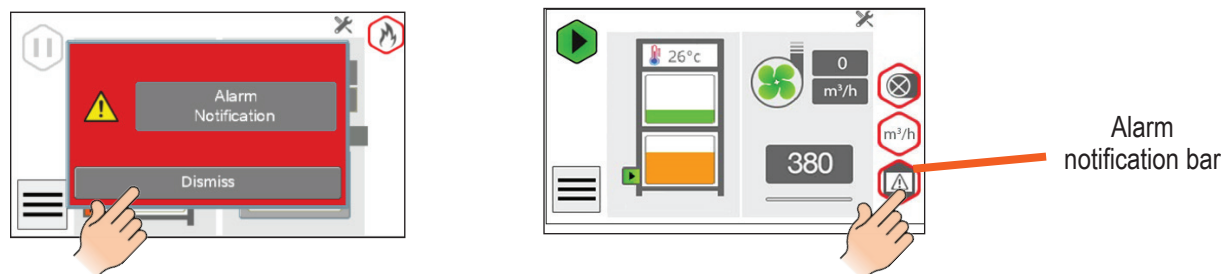
"Restart" screen

Fault indication

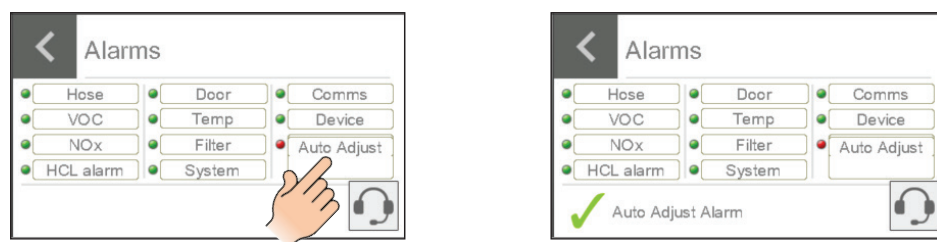
In the unlikely event of a problem with the mist collector, please contact your local representative.

System alarms

The “Alarm notification” bar will populate with alarms when triggered. The alarm icons populate from top to bottom, pushing older alarms down (most important alarms will stay at the top). The alarms will clear once resolved. The bar can display up to five alarms at a time. If more alarms are triggered, selecting one of the alarm icons will navigate to the “Alarms” screen where all active alarms can be seen.



Pressing the relevant alarm button will provide more information.



Activated alarms are shown in red. The standard alarms that the system will indicate are shown in the table below, others are relevant only when that option is included:

Alarm icon	Function
	Thermal
	Hose blocked
	Combined filter not fitted correctly
	Pro OS board overheating
	System fault

Thermal

If the system detects an internal temperature greater than 131°F (55°C), it will automatically shut down the mist collector to prevent damage to components within the mist collector. Once the internal temperature has dropped below 122°F (50°C), the mist collector will be able to restart. To restart the mist collector after an over temperature alarm, the mist collector reset button on the thermal trip needs to be pressed System temperature section.

Hose blocked

This alarm is triggered when the system detects a full blockage in the installation. The system interprets a full blockage as a vacuum spike within the ductwork, indicating that the mist collector cannot maintain the set airflow due to the blockage.

During this time, it is normal to hear the blower increase in speed. The blockage will need to remain in the ductwork for over 5 seconds to trigger the alarm.

To remove the blockage, isolate the mist collector from the line power, remove the flexible hose, locate and remove the blockage then reattach the hose as previously installed.

Pro OS board overheating

The Pro OS board is fitted with thermal protection to prevent any of the components being damaged at high temperatures. This is set to 149°F (65°C). Once the internal temperature has dropped below 140°F (60°C), the mist collector will be able to restart.

System fault

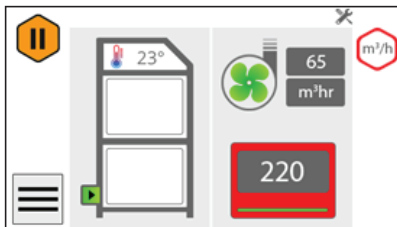
The system fault alarm will be shown if there is a fault with any of the following alarms:

- Hose blocked
- Pre-filter full
- Combined filter full
- Auto adjust

Auto adjust

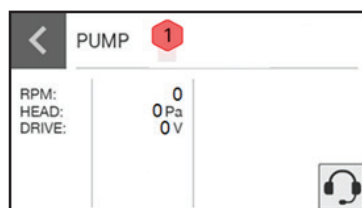
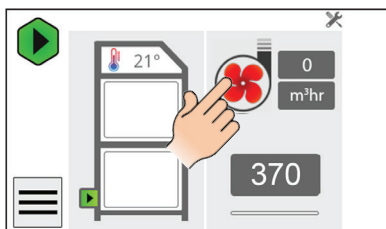
When first setting the airflow on your new mist collector, Pro OS will detect if the desired airflow is achievable with the system as configured during installation. If the installation is causing too much restriction for the desired airflow to be reached, the auto adjust feature will be activated:

1. The “Airflow setpoint” box will begin flashing red.
2. The actual airflow visual will drop to display the highest airflow that can be achieved.
3. The airflow will stabilize and red box and system fault icon will clear.



Blower fault

If a fault was to occur on the blower installed in the system, the blower icon will turn red and the mist collector will shut down. If the red icon is pressed, the system will navigate to the blower diagnostic screen.



Troubleshooting

Problem	Probable Cause	Remedy
Fan blower assembly does not start	Electrical supply circuit down	Check power supply circuit for proper voltage. Check for fuse or circuit breaker fault. Replace as necessary.
	Damaged fan motor	Replace damaged fan blower assembly.
	Overload relay tripped	Reset. Check amp draw on system.
Fan blower assembly starts, but does not stay running Clean-air outlet discharging mist	Electrical circuit overload	Check that the power supply circuit has sufficient power to run all equipment.
	Filters not installed correctly	See Filter Replacement.
	Filter(s) damaged or worn	Replace filters as necessary. Use only genuine Donaldson replacement parts. See Filter Replacement.
Insufficient airflow	Access doors open or not closed tight	Check that all access doors are in place and secured.
	Drain collection container not closed	Check that drain collection container is sealed.
Insufficient mist capture	Airflow selected too low for sufficient capture	Increase airflow on Stratos collector following airflow setpoints found in Setting The Desired Airflow.
	Debris in inlet or inlet baffle	Clean and remove any debris in the inlet or inlet baffle.
	Pre-filter plugged	Remove and clean or replace.
	Primary filter needs replacement	Replace filters as necessary. Use only genuine Donaldson replacement parts. See Filter Replacement.
	Plugged HEPA filter	Replace filters as necessary. Use only genuine Donaldson replacement parts.
Insufficient hopper discharge	Plugged P-Trap	Clean P-Trap. See P-Trap Product Service.
	Plugged drain collection container	Remove and clean collection container and faucet. See Drain Collection Container.
Liquid leaking from collector door	Plugged P-Trap	Clean P-Trap. See P-Trap Product Service.
	Drain collection container full or plugged	Turn collector OFF. Remove and clean or empty drain collection container. See Drain Collection Container.

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:	Kst _____	Pmax _____	MIE _____ MEC _____
Accessories	_____		
Other	_____		

Service Notes

[illegible]

Service Notes

[illegible]

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.



Donaldson
FILTRATION SOLUTIONS

Donaldson Company, Inc.
Minneapolis, MN

donaldson.com • shop.donaldson.com

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