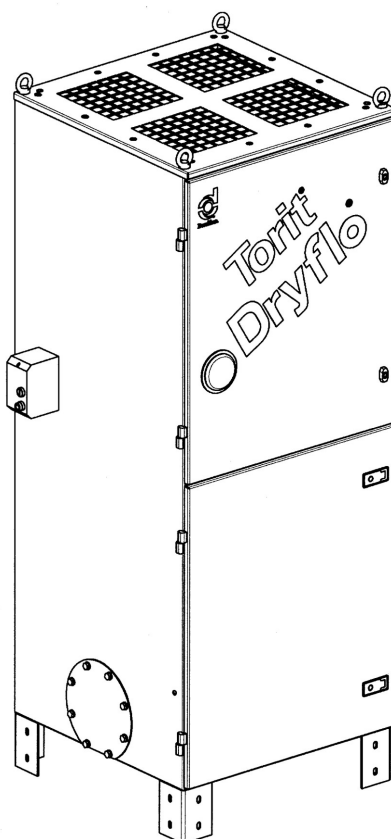


FOR TORIT® DRYFLO® MIST COLLECTOR TYPE DMC-C and DMC-D1



IMPORTANT

PLEASE READ THIS MANUAL CAREFULLY BEFORE INSTALLATION

**THIS MANUAL SHOULD BE READ IN CONJUNCTION WITH THE RESPECTIVE
PRODUCT MANUAL AND CIRCUIT DRAWINGS SUPPLIED WITH THE DUST
COLLECTOR**

EXPLANATION OF SYMBOLS USED



Refers to special information regarding the most efficient use.



Refers to special information directed towards preventing damage.



Refers to special information designed to prevent injury or extensive damage.

IMPORTANT

These details correspond to the serial nameplate located on the side panel of the equipment to which this Manual refers

 Donaldson. Filtration Solutions		Oil mist Collector Ölnebelabscheider	
 Model / Type	 Serial Nr / Fabrik Nr	 Seq Nr	 Year / Baujahr
m ³ /h Air Volume / Förderleistung	m ² Filter Area / Filterfläche	V Voltage / Spannung	50 HZ Cycle / Frequenz
 Protection / Schutzart	A Current / Strom	PH Net weight / Nettogewicht	KW
Donaldson Europe B.V.B.A. Torit-DCE Division Interleuvenlaan 1 B-3001 Leuven Belgium WWW.DONALDON.COM			

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1. SAFETY RECOMMENDATIONS

This manual contains specific precautionary statements relative to worker safety in appropriate sections. To avoid dangerous situations we give you the following advices :



refers to special information on how to use the mist collector most efficiently.



refers to special information directed towards preventing damage.

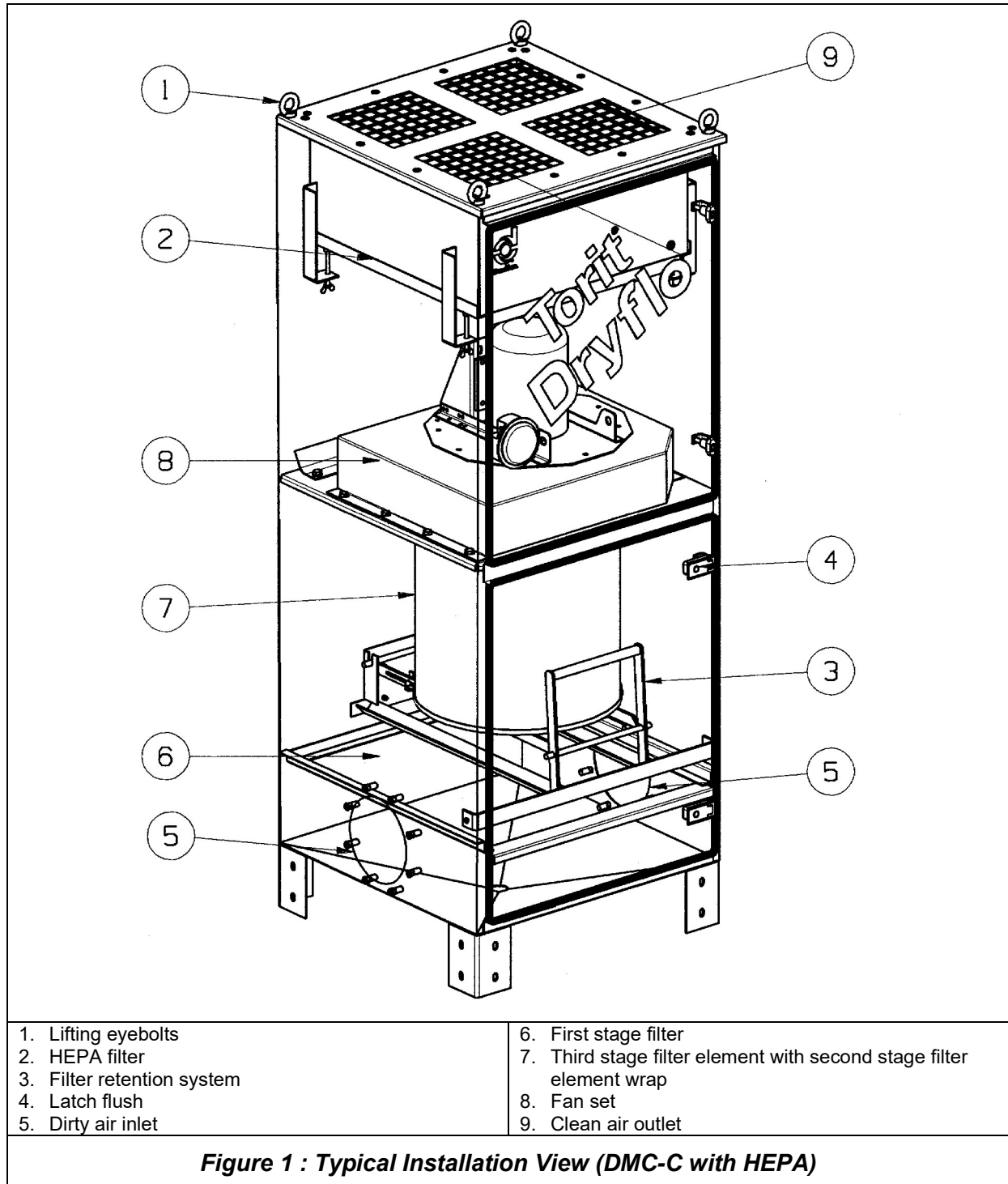


refers to special information designed to prevent injury or extensive damage.



- a) *The mist collector has been built in accordance with state-of-the-art standards and recognized safety rules. Nevertheless if not handled carefully, it may put people at risk, or also cause damages.*
- b) *The mist collector must only be used in technically perfect condition in accordance with its designated use and the instructions set out in the operation manual. Any functional disorders, especially those affecting the safety, should therefore be rectified immediately.*
- c) *Make sure to give proper training to operators before start-up.
The mist collector is designed exclusively for use in accordance with the scope of delivery, drawing(s) and the specification sheet.*
- d) *The mist collector is not designed for applications with combustible materials involving a potential explosion risk.*
- e) *Dryflo mist collectors can only be used for oils with an LEL >15g/m³.*
- f) *Oil mist is potentially flammable and Dryflo mist collectors are only suitable for working in ambient temperature conditions and handling fluids with a flash point >65°C.*
- g) *It is not allowed to put lit cigarettes or any burning object into the mist collection system.*
- h) *Regular maintenance is important for a good performance of your mist collector.
A prudent user of Donaldson equipment should consult and comply with all relevant Fire Codes and/or other appropriate codes when determining the location and operation of mist collector equipment.
A hand operated supply disconnecting device is necessary for each incoming electrical supply in accordance with EN 60204-1.*
- i) *To prevent accidents the access to the fan wheel must be impossible during operation. Refer to EN 294.*
- j) *Disconnect all power before servicing. All electrical work must be done by a qualified electrician according to local codes.*
- k) *All exposed conductive parts of the electrical equipment and the mist collector shall be connected to the protective bonding circuit (refer to EN 60204-1).*
- l) *Mist collectors do not contain fire extinguishing equipment. A manufacturer of fire extinguishing equipment, familiar with this type of fire hazard and local fire codes, should be consulted for recommendations and installation of the proper fire extinguishing equipment.*

- m) Dryflo mist collectors cannot be placed or operated in potentially explosive atmospheres as classified by the ATEX Directive 94/9/EC.
- n) The user of the dustcollector is responsible to dispose of any dust generated by the process, according to local regulations.
- o) Operation of the Dryflo mist collector fan should be interlocked with the oil mist generation process such that in the event of fan failure, oil mist generation must stop immediately to prevent the increase to unsafe concentration levels. (Refer to Section 4.2.9).



2. INTRODUCTION

2.1 Product information

The Dryflo mist collector is used for the collection of airborne mists. Whether in answer to the problem of air pollution, or as part of a manufacturing process, the mist collector provides highly efficient, continuous, on-line mist collection.

The Dryflo mist collector is designed to collect oil, water soluble and synthetic coolant mists from a variety of machining operations and other industrial processes. The unit will also collect a small amount of dust from machining operations.

With the optional HEPA (High Efficiency Particulate Air) filter, smoke from machining operations can also be captured.

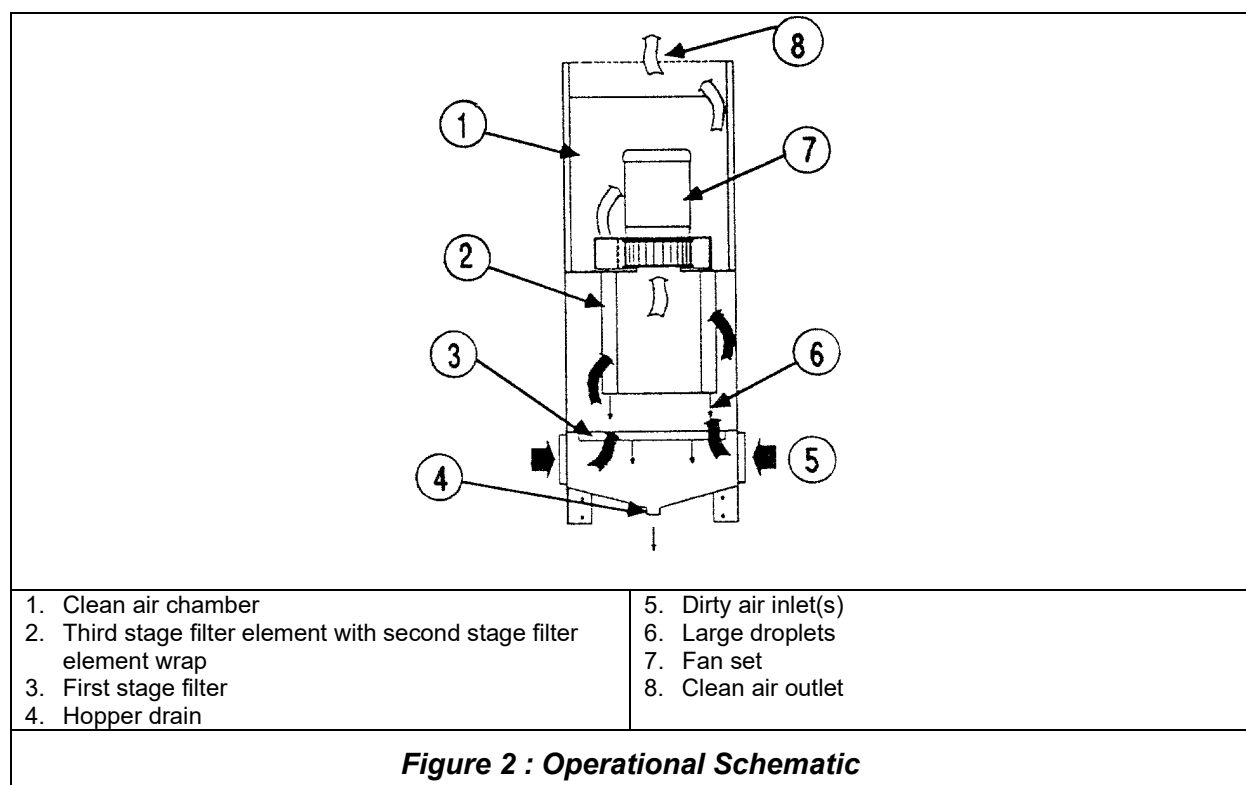
The filter element is the heart of the mist collector. This filter element helps to ensure that only cleaned air is returned to the plant environment.

Thermally generated oil mist can be handled with a WSO style cartridge.

Technical and field support are available from your local Donaldson representative or distributors to answer your questions.

2.2 Function

During operation, contaminated air enters the Dryflo mist collector through one or both dirty air inlets. The incoming air slows and turns upward, causing the largest mist droplets and particles to fall out of the air stream into the hopper. The air then passes through the first stage filter which is designed to collect and coalesce large droplets and particles. After the first stage filter the air still contains smaller mist droplets. A second stage filter element wrap provides the next level of filtration. This standard filter element wrap is designed to collect and coalesce fine mist into larger droplets. The vertical orientation of the wrap promotes drainage of the droplets. The filter element wrap also collects particulate that may be in the airstream, extending the life of the third stage filter element. In the third and most efficient stage of filtration, the air passes through the filter element.



As mist particles coalesce and form larger droplets, the droplets become large enough to run down the filter element and drain back into the hopper. During operation, the droplets will drain on both the inside and outside of the filter element. The filtered air exits the filter element into the clean air chamber, where it exits through the clean air outlet and can be recirculated into the environment. The collected liquid drains via the hopper into an optional P-trap or collection bottle. The wrap is not present when a WSO element is installed.



Hopper should never be used for storage of collected liquids.

3. PRIOR TO INSTALLATION

3.1 Location

The Dryflo mist collector should be located with consideration for :

- hopper drainage
- shortest runs of inlet and outlet ductwork
- radius bends on elbows as big as possible
- easy access to electrical connections
- convenience of maintenance



Consult the technical specification sheet and drawings for the mist collector weight and dimensions.

For calculating for foundation or supporting structure consider the following factors :

- the weight of the mist collector
- the material being collected
- all auxiliary equipment
- live loads

3.2 Required tools and equipment

- Crane/Fork lift
- Slings/ Clevis Pins and adequate lifting equipment
- Standard tools (e.g. screwdrivers, wrenches, etc.)
- Drill
- Pipe Sealant
- Level

3.3 Delivery and inspection



The mist collector is normally shipped by truck as a completely mounted mist collector and should be checked for any damage that may have occurred during shipping. Compare the parts received against the packing list. If there is damage or parts missing, notify the delivery company and your local Donaldson representative.

Parts shipped loose with the delivery (depending on your order) :

- HEPA filters
- Control box
- P-trap
- Collection bottle
- Leg pack
- Inlet pack
- Spare parts
- Hardware/Sealant

- Anchor bolts

4. INSTALLATION

4.1 Unloading and transport to location



Before unloading remove all packing and strapping.

- A crane or fork lift is recommended for the unloading, transport and installation of the mist collector.



- *Connect lifting sling to the lifting eye bolts with clevis pins and distribute loads equally. Use spreader bar if necessary.*
- *Whenever a fork lift is used for moving, installing or lifting the Dryflo mist collector, the upper part of the unit must be secured to prevent tipping. The mist collector has a high center of gravity and may overturn if not secured and handled properly.*

4.2 Installation and Assembly

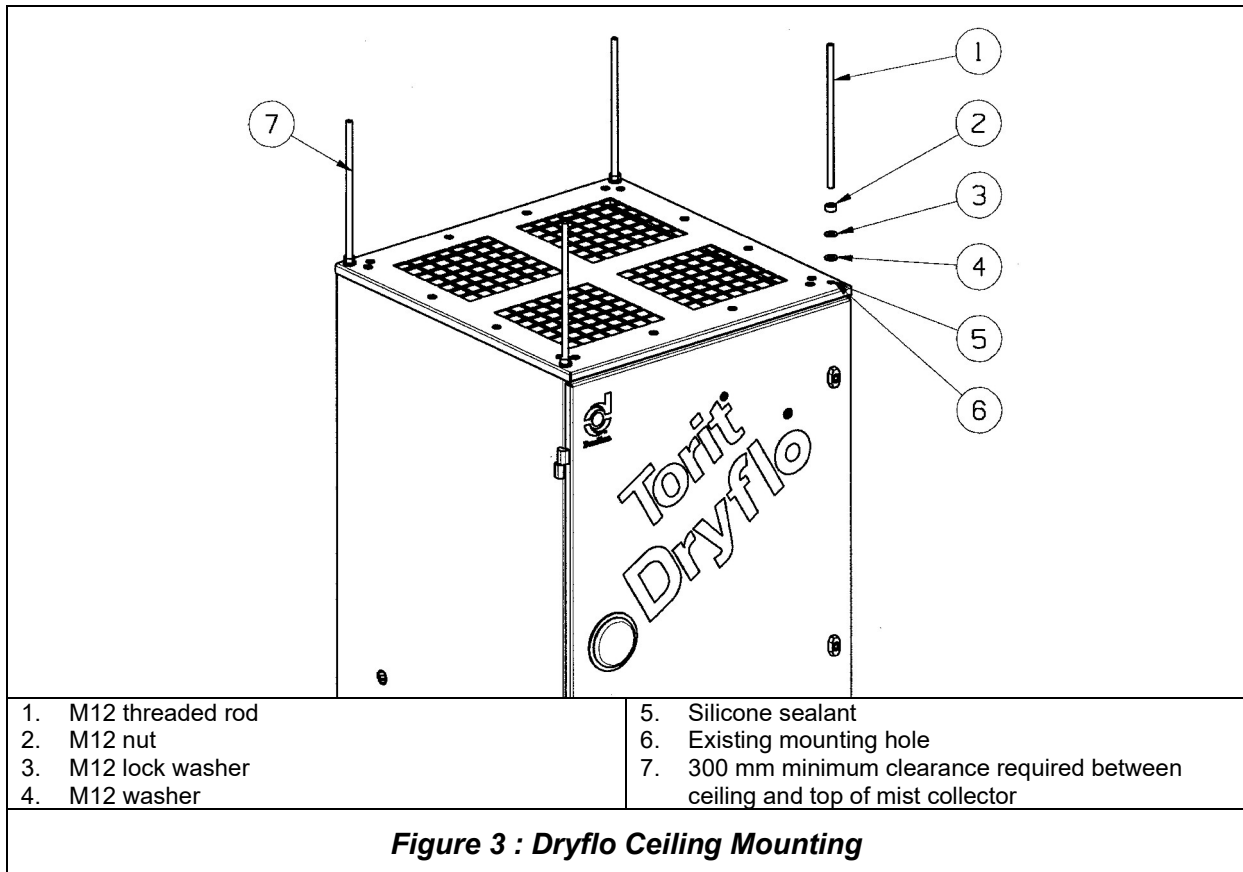
4.2.1 Ceiling Mounting

When ceiling mounting the Dryflo mist collector, you must first calculate the total mist collector weight including material being collected, ductwork and any auxiliary equipment that is attached to the unit.

1. Remove the lifting eyebolts.
2. Use four threaded M12 rods (quality 12.9) for hanging the unit. Thread a M12 (DIN 934) nut onto the threads of each rod for at least 40 mm.
3. Apply silicone sealant around the existing mounting holes on the top of the unit.
4. Place a M12 lock washer and M12 flat washer on each rod before threading the rod into the mounting holes.
5. Thread the rods into the holes and tighten nuts.
6. Use the connection at the ceiling, not at the mist collector, to level the unit in all directions.

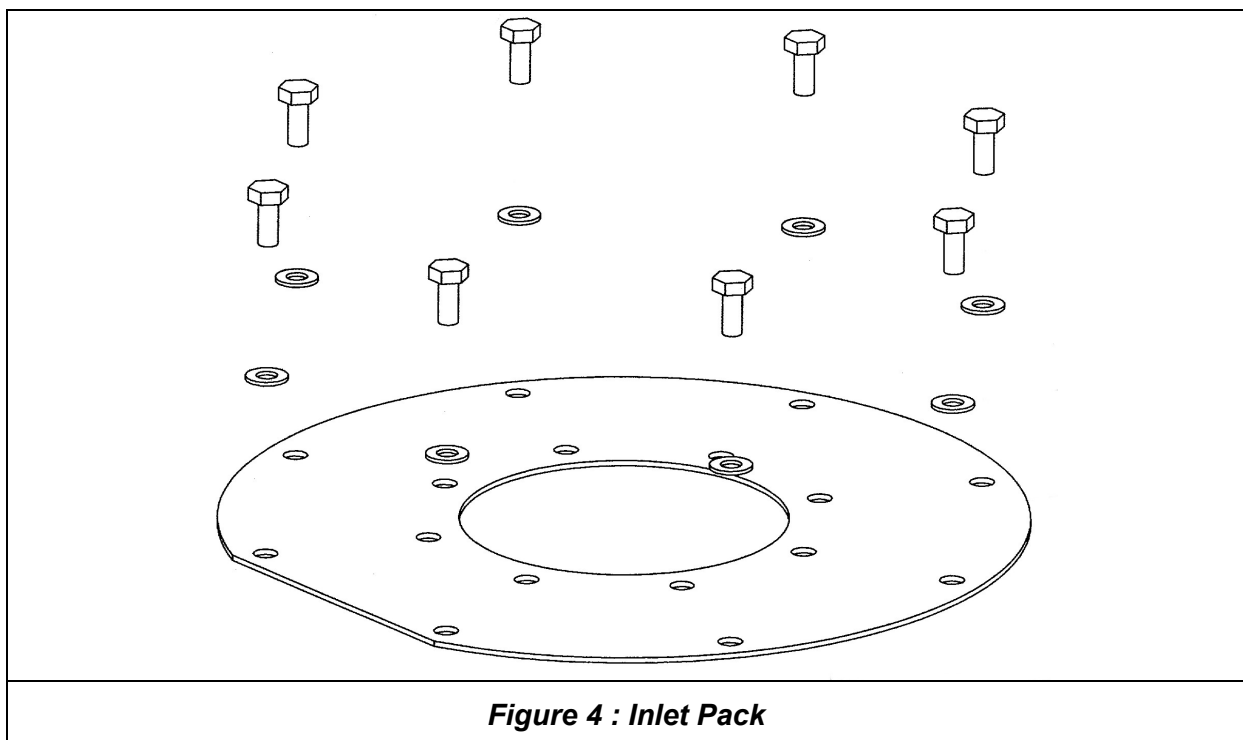


- *300 mm clearance required above mist collector for exhaust air.*
- *Level the unit before tightening any hardware.*



4.2.2 Inlet Pack

The inlet pack is specified when ordering the Dryflo mist collector. Remove the inlet cover plate(s) and install the inlet pack using the supplied bolts, washers and nuts.



4.2.3 Magnehelic Gage

The magnehelic gage is a standard feature on the Dryflo mist collector models DMC-C and DMC-D1. The gage is factory mounted in the top door. This gage is a monitor for the second stage filter element wrap and the third stage filter element pressure drop ΔP .

4.2.4 Control Box



The control box is factory mounted on the mist collector, according to our standards (except when specified by order).

If the control box is shipped loose, it has to be mounted according to following instructions :

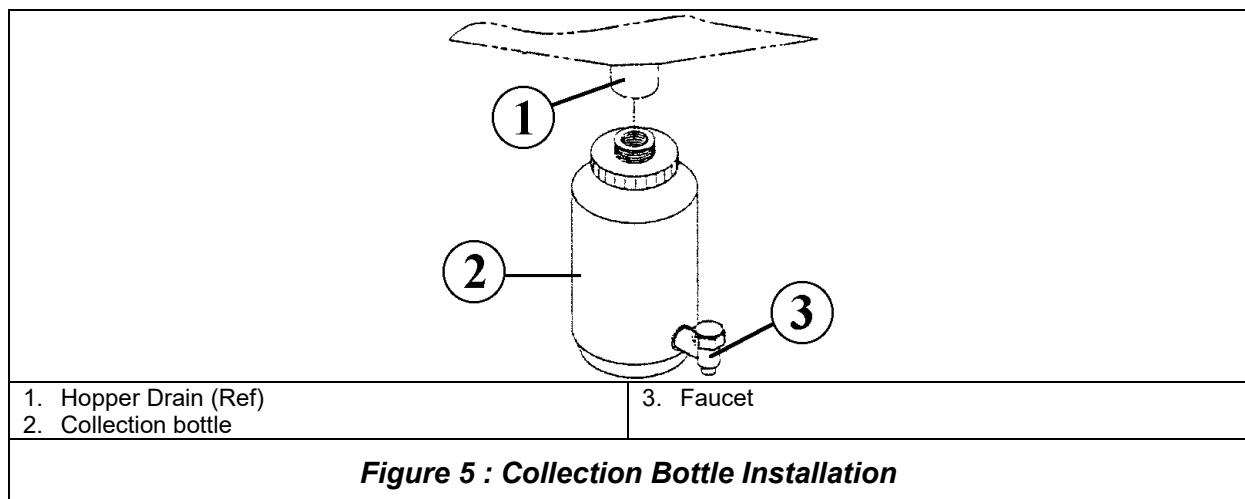
- Holes are provided on each side of the clean air chamber for conduit fitting. These holes are factory plugged. Remove the appropriate plug.
- Make the proper connections to the fan motor using the wiring diagram supplied inside the control box and the instructions on the motor sticker.
- Provide holes into the unit according to the hole pattern of the control box so that the control box can be mounted.

4.2.5 Collection Bottle

The collection bottle is shipped loose and can be installed during leg installation or after the unit has been installed in its operating position. This collection bottle can hold up to 3.7 litres of collected liquid.



- *The collection bottle is intended for applications in which relatively small amounts of oil is collected. This drain requires manual operation and must be periodically emptied. The collection bottle is semi-clear so that an operator easily can see when it requires emptying.*
- *The collection bottle faucet should only be opened when the Dryflo mist collector is turned off. If the faucet is open when the fan is on, air will be drawn through the faucet and the bottle will not drain properly.*
- *Make certain the faucet is closed when the mist collector is turned on and in operation.*



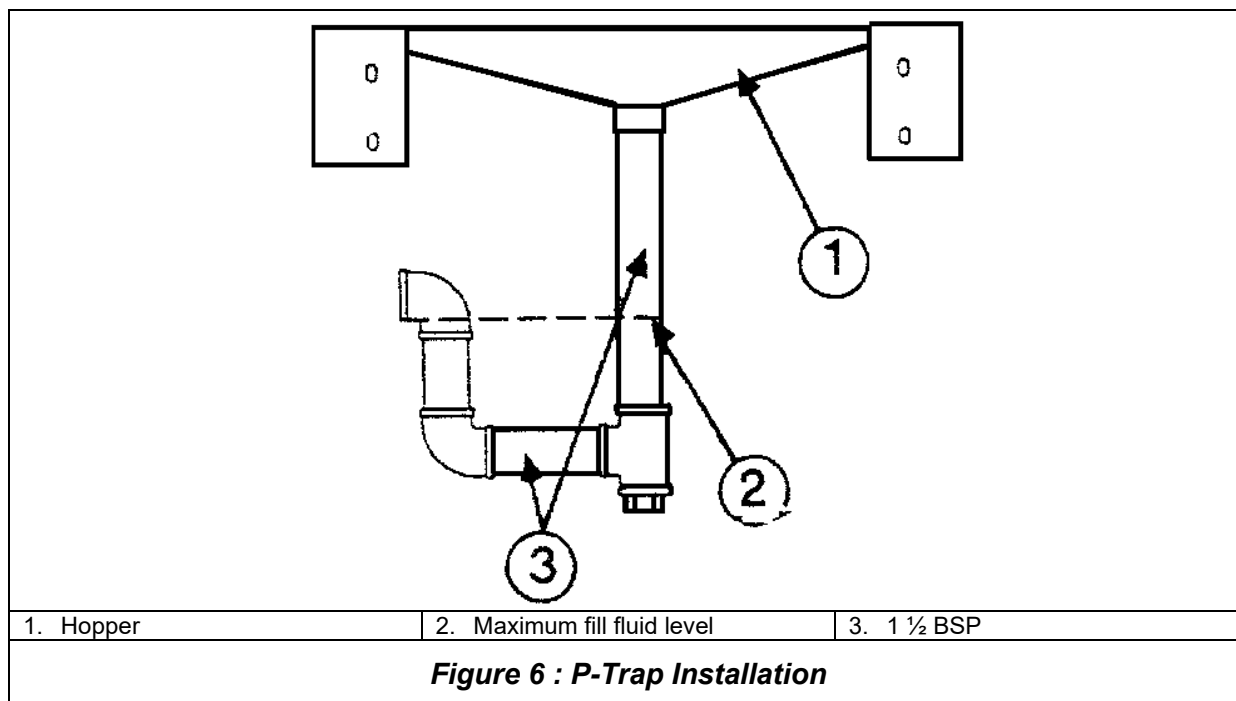
4.2.6 P-Trap

The P-trap is shipped loose and can be installed during leg installation or after the unit has been installed in its operating position. It is 1 1/2" BSP pipe. The P-trap can be plumbed to a receptable or it

is also possible to run a return line so that the collected liquids return to the machine for re-use. This P-trap is designed to allow continuous drainage for collected liquid while the unit is in operation.



- The P-trap must always be filled with liquid prior to operation of the Dryflo mist collector to ensure proper drainage of the collected liquid.
- The characteristics of some machining fluids change with time, use and exposure to air. Check the suitability of collected fluid before re-use.



4.2.7 Leg Pack

When using a leg pack on the Dryflo mist collector, anchor bolts M10 shall be used to fasten the unit to the floor. These anchor bolts will extend above the floor by 40 mm and should be placed before the mist collector is installed.

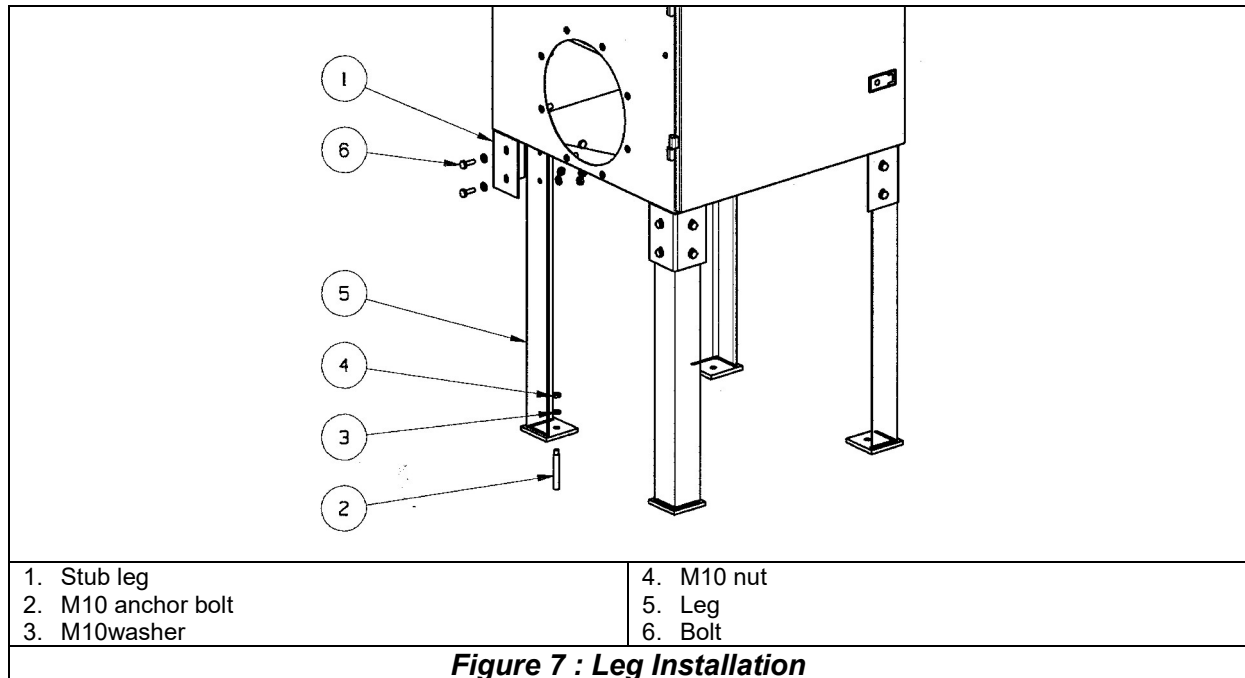


Level the unit before tightening any hardware.

1. Raise the unit to the required leg height.
2. Position the leg on the inside of the stub leg of the unit. Align the holes in the legs and fasten together using the bolts, washers and nuts supplied. **Do not tighten hardware at this time.**
3. Lower the unit onto the anchor bolts. Use a flat washer and a nut to fasten the leg pad to the floor. While the unit is still being held up, level the unit and tighten the bolts and nuts from the anchor bolts.
4. Before removing the lifting gear, re-check the hardware for tightness.



Make certain leg bolts and anchor bolts are securely tightened.



4.2.8 Electrical connection



- Amperage and voltage information is shown on the nameplate ratings of the fan motor. Over amperage of the motor will cause damage.
- Connect the main power to the control box according the wiring diagram included in the control box.

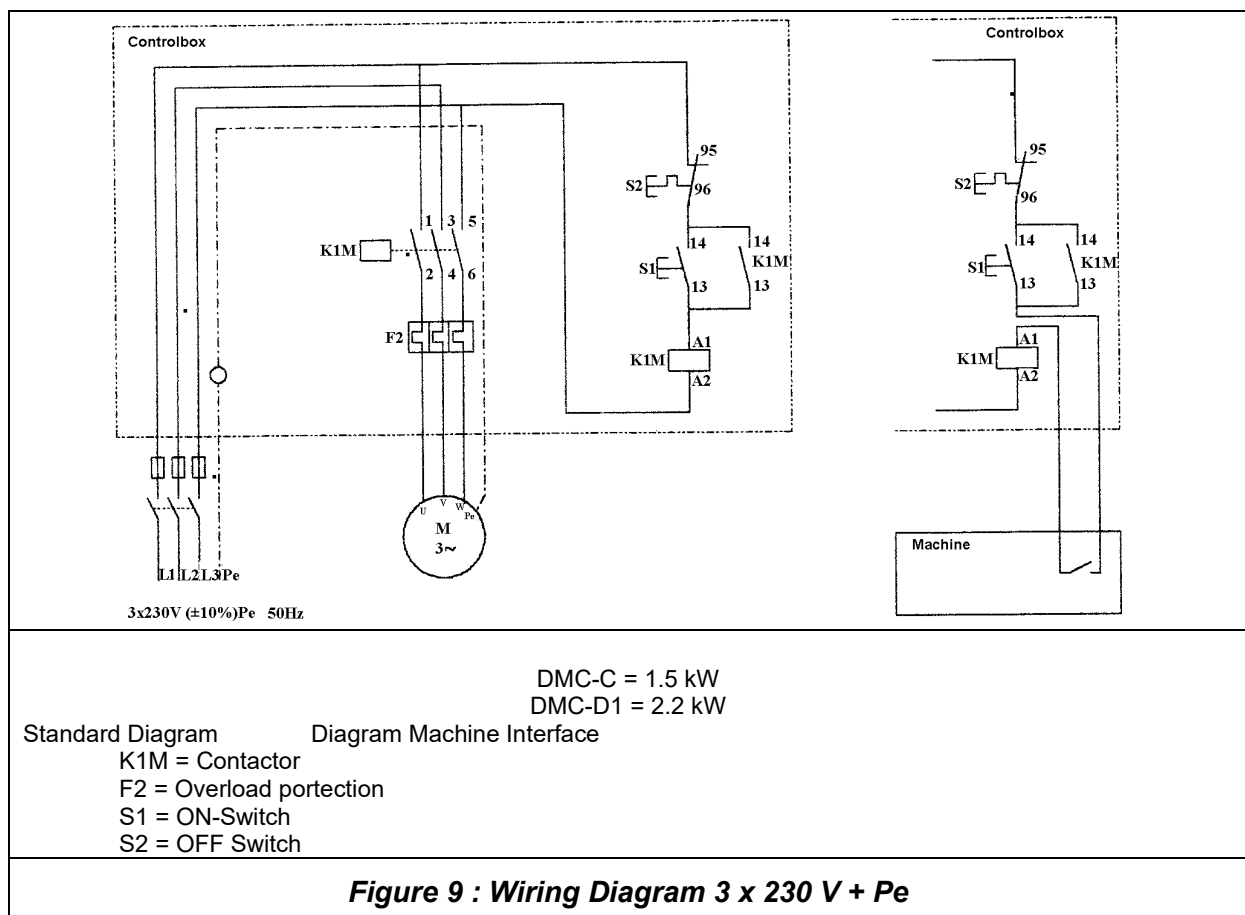
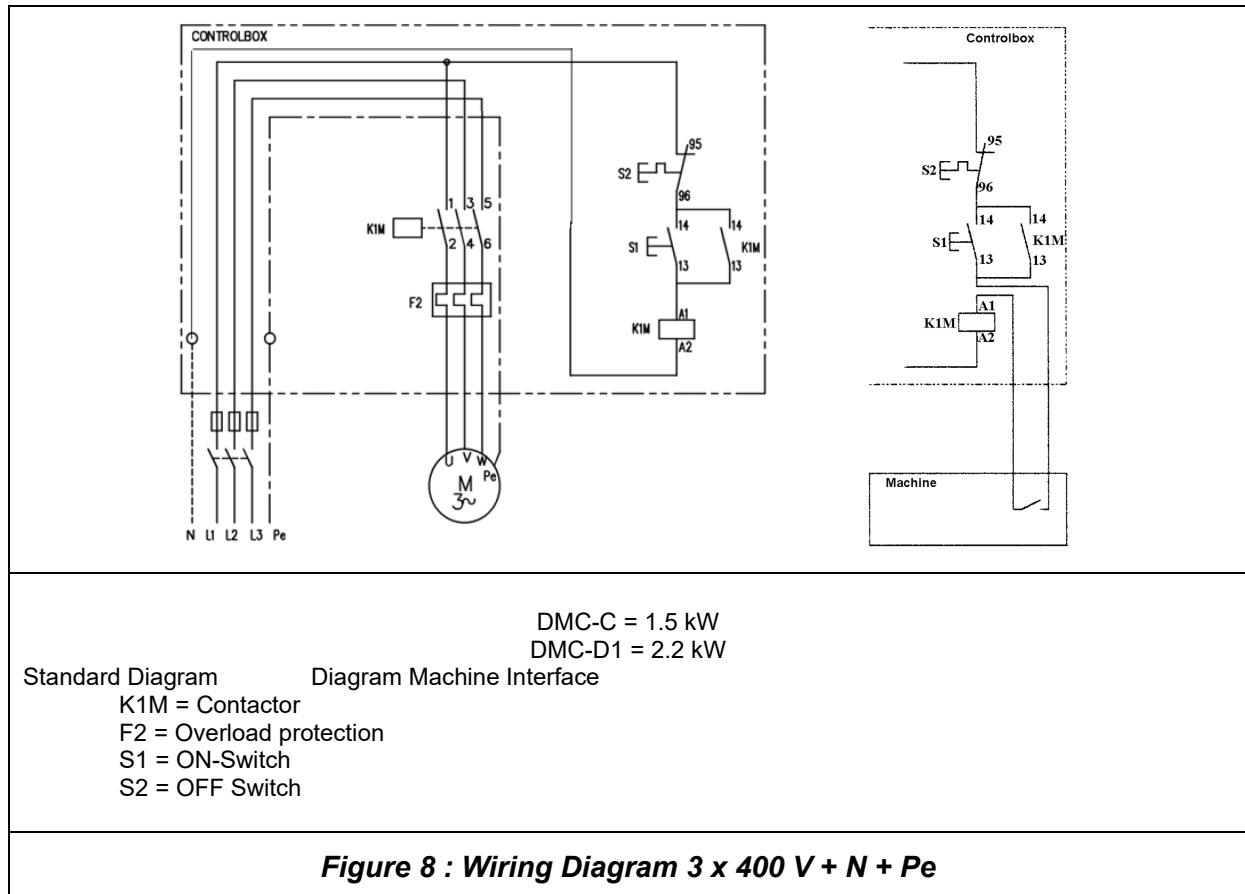


Check the rotation of the fan wheel (direction of the arrow on the fan housing). If the fan is running in the wrong way, it will deliver only approximately 40 % of its rated air volume. Lock out all electrical input power and interchange any two wire leads (3 phase only) on the output side of the motor starter to reverse fan rotation.

4.2.9 Machine interlock connection

It is possible to make a machine interlock with the Dryflo.

- Open the Dryflo Control Box and remove the wire connected on A1 and 13.
- Connect interface contact between connection point A1 and 13.
- Interface contact must be potential free.
- See wiring diagrams 8 and 9.



5. START-UP CHECK LIST



- Follow all steps before first start-up and when the mist collector is not been used for a long period.
 - For daily use follow steps 1, 2, 3, 4 and 7.
1. Check that the outlet of the fan is free of debris before starting.



Too much airflow can cause electrical failure of the fan motor or dramatically reduce the life of the filter elements.

2. Be sure that the inlet ducting is properly installed and duct joints are sealed.
3. Make certain the filter element is properly installed.
4. Check if the access doors are closed.
5. Check if the P-trap is filled with suitable fluid when used.
6. If a collection bottle is used, make sure that the faucet is closed.
7. Switch main power on and press 'ON' button.

6. OPERATION SCHEDULE

To ensure a good performance of your mist collector, follow the check points below according to the time table.

No.	Checkpoint	Type of control	Recommended action	Day	Weeks			
					2	4	8	26
1.	Fan set	Excessive noise	See trouble shooting guide chapter 8	X				
2.	Clean air chamber	Emission : oil mist emission over in clean air chamber	See trouble shooting guide chapter 8		X			
3.	Exhaust	Leakage at the exhaust	Check third stage filter element and HEPA filter(s) (if applicable) for positive gasket seals				X	
4	Hopper drainage	Drainage is slow or has stopped	Check hopper drain for blockage and clean if necessary. The hopper and the first stage filter may also require cleaning.	X				
5	P-trap	Drainage is not proper.	Refill if it is low or dry. The hopper and drain screen may also require cleaning	X				
6	Magnehelic gage	Magnehelic gage is in the red zone	See trouble shooting guide chapter 8	X				
7	Doors	Visual check gaskets	Replace gaskets if necessary			X		
8	Connecting ducts	Check for leakage	Repair if necessary				X	
9	Mist collector	Check damage, strenght and corrosion	Repair or replace if necessary					X
11	Filter element	Preventive replacement of all filter elements (see chapter 7.4)	Unless otherwise specified in the scope of delivery every 2 years .					

7. SERVICE

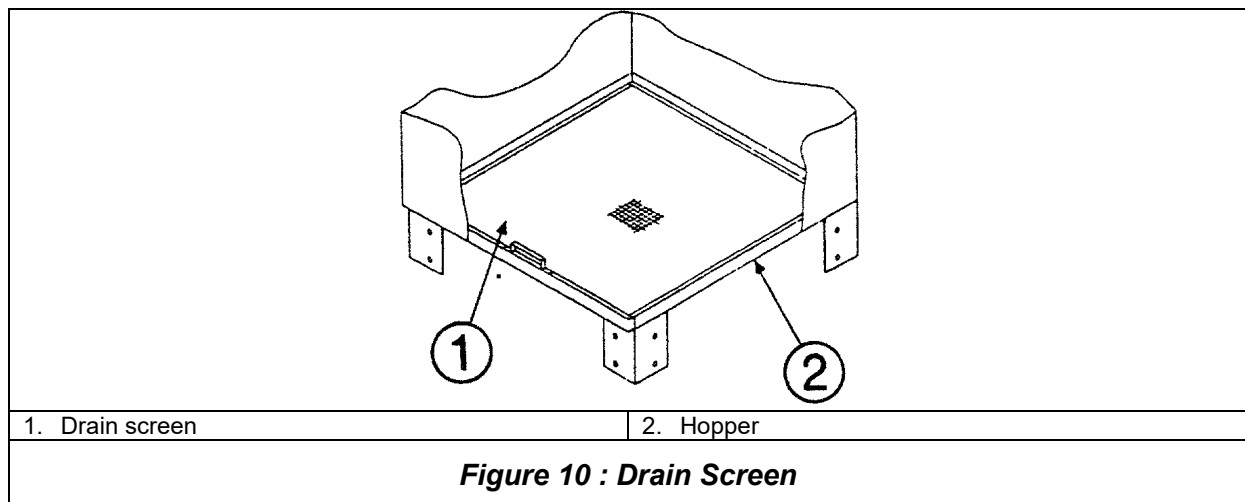


- *Disconnect and lock out electrical power before servicing.*
- *No welding should be performed inside without fire protection.*
- *Avoid contact or exposure to collected liquids during servicing.*

7.1 Hopper and drain screen

A drain screen is available to help keeping the hopper clean and preventing drain plugging.

- Access the hopper and drain screen through the access door
- Lift the drain screen up and out of the hopper
- Clean the hopper by scraping the particulate out
- Keep particulate out of the hopper drain so that proper hopper drainage is maintained. If further cleaning is required, wash the drain screen.



7.2 P-Trap

If the P-trap requires cleaning, remove the pipe plug from the pipe tee and drain the P-trap.

Replace the pipe plug and refill the P-trap with liquid (see figure 'P-trap Installation').



- *Only remove the pipe plug from the pipe tee when the mist collector is turned off.*

7.3 Collection Bottle

If the collection bottle requires cleaning, remove it from the hopper drain. Clean the collection bottle and faucet and re-install (see figure 'Collection Bottle Installation').



- *Only remove the collection bottle when the mist collector is turned off.*

7.4 Change of filter elements

7.4.1 First Stage Filter

This is a permanent filter, which is designed to last the life of the Dryflo mist collector. This filter may need to be periodically cleaned.

Access the first stage filter through the access door. Remove it out of the unit by pulling it out. The first stage filter can be cleaned by rapping it over a waste container to dislodge particulate.

If further cleaning is required, wash or soak, rinse and dry the first stage filter.

An optional polypropylene first stage filter is available for applications involving heavy liquid loading. For heavy particle loading applications a thin screen can be chosen as first stage filter.



- *Because of temperature limitations of the polypropylene filter, high temperature cleaning methods such as steam cleaning should not be used.*
- *Do not operate the mist collector without the first stage filter installed. Significant reduction in third stage filter element life may result.*

7.4.2 Second Stage Filter Element Wrap (not applicable for WSO element)

To determine if the second stage filter element wrap needs replacement, install a clean filter element wrap, restart the mist collector and check the magnehelic gage. If the gage is in the green zone, the third stage filter element will not require replacement and can continue operation with the clean filter element wrap. If the gage still reads in the red zone with the clean filter element wrap, the filter element will need to be replaced (see chapter 7.4.3).

For easiest maintenance, the second stage filter element wrap and third stage filter element can be changed at the same time. Access the filter element wrap through the access door. The second stage filter element wrap can now be replaced using the hook and loop seam to open the wrap.



- *Do not operate the mist collector without the second stage filter element wrap installed. Significant reduction in third stage filter element life may result.*
- *Wear gloves when handling filter element and filter element wrap.*
- *Due to accessibility, it may sometimes be easier to replace the filter element wrap by removing the complete filter element assembly from the unit.*

7.4.3 Third Stage Filter Element



- *The genuine Torit filter element is the only replacement filter that will provide the high level of performance that you expect from your investment in the Dryflo Mist collector.*
- *Do not drop or rap the new filter element on the floor or any other hard surface. Damage to the filter element will occur.*

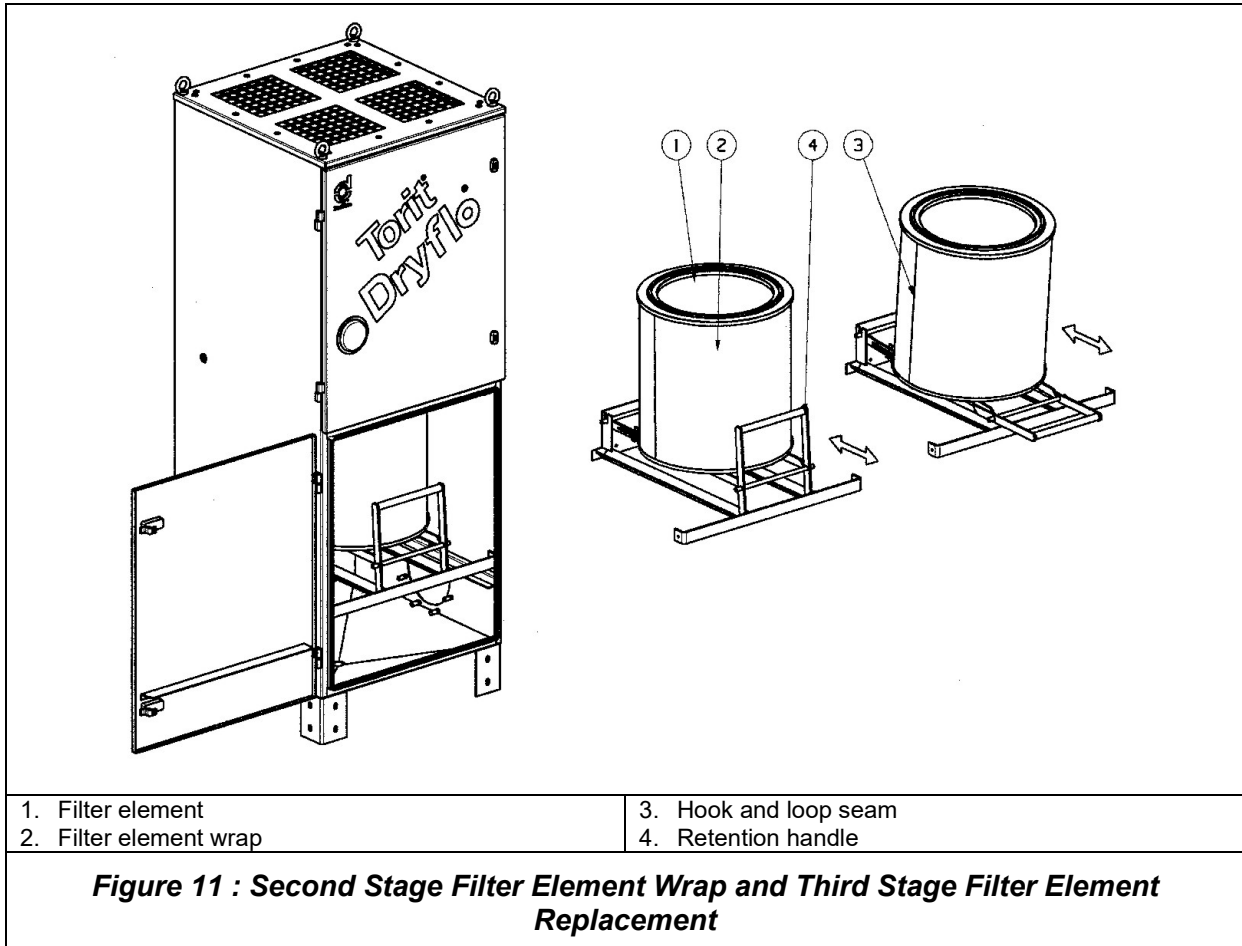
For easiest maintenance, the second stage filter wrap and third stage filter element can be changed at the same time. The third stage filter element is accessed through the door.

1. Pull the retention handle out and down to a horizontal position to loosen the filter element.
2. Slide the filter element out of the unit.
3. As the filter element is being removed, a plastic garbage bag can be slipped over the top of the filter element. The filter element may then be tipped as it is removed while the bag is being closed over the bottom of the filter element.
4. Install the new filter element with a new filter element wrap in the unit by placing the new filter element on the retention with the gasket up.



- When the new filter element is installed, take care that the gasket of the filter element is not interfering with the bolts of the fan plate and that the gasket is not sealing the magnehelic connection.

5. Push it back in until the filter element stops.
6. Lift the retention handle up into the unit until it stops.



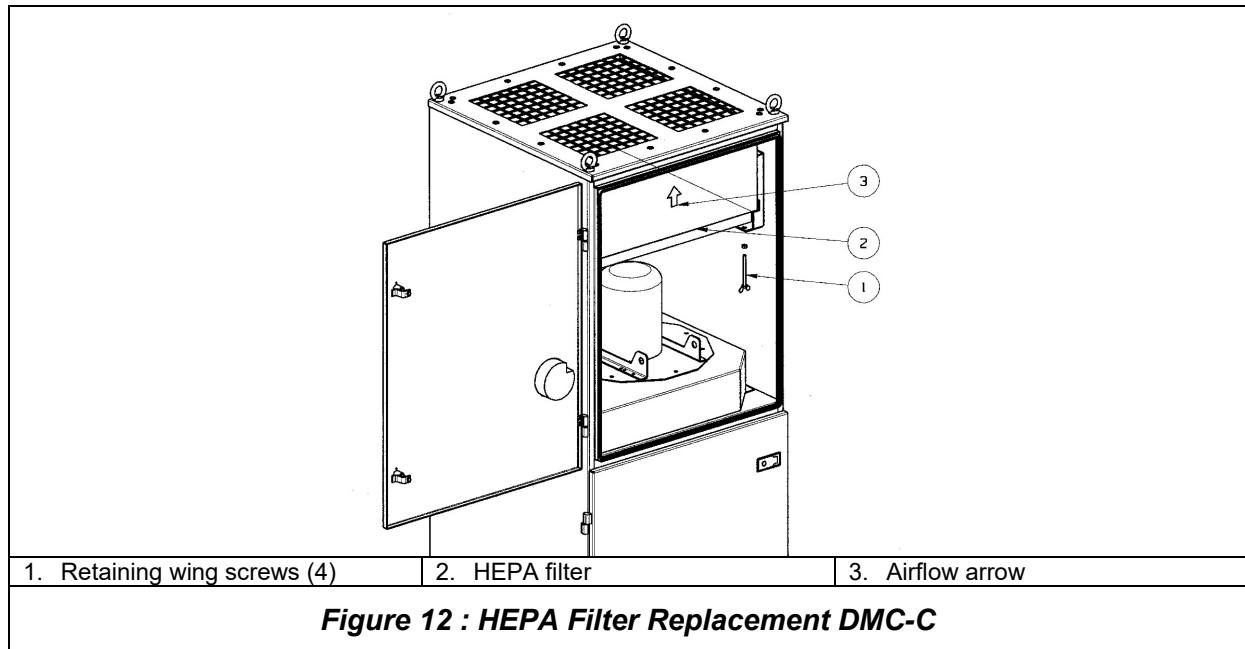
7.5 HEPA Filter



Replace HEPA filters at the same time as the third stage filter element is replaced.

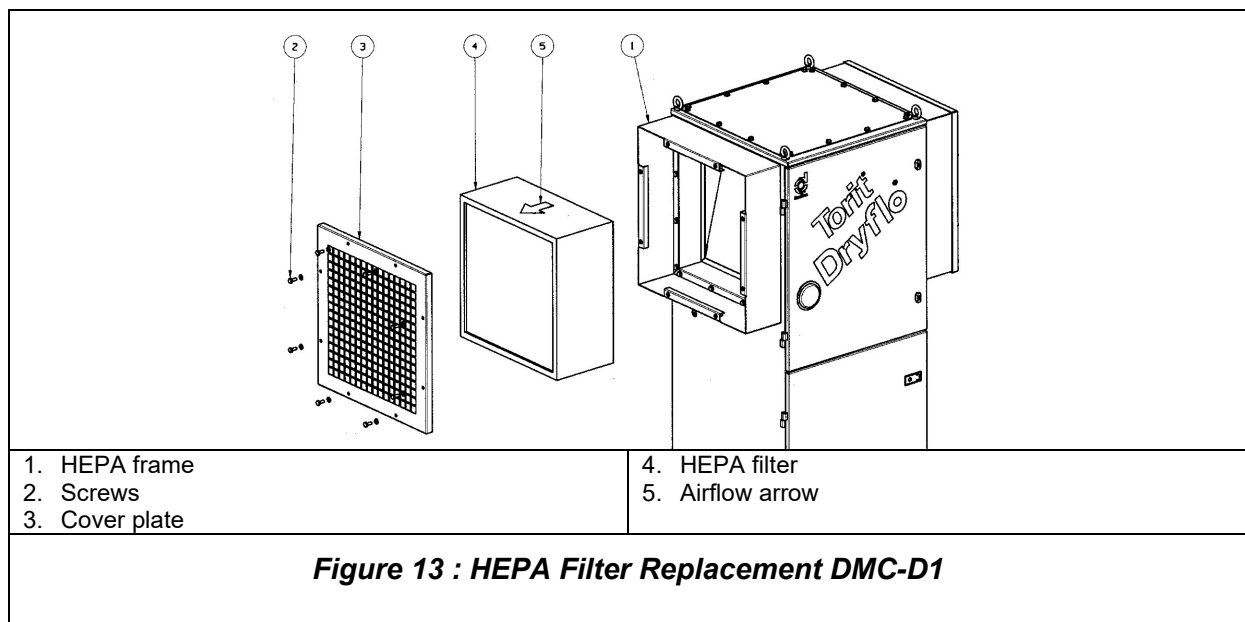
7.5.1 Dryflo Model DMC-C HEPA Filter

1. The HEPA is accessible through the door.
Unlatch the door with a hex key wrench.
Loosen the four retaining wing screws until the HEPA filter is loose and pull the HEPA filter out of the unit.
2. Install the new HEPA filter in the reverse procedure. Make sure the gasket is facing upwards.
Take note of the airflow direction arrow on the side of the HEPA filter, airflow is from the inside of the unit to the outside.



7.5.2 Dryflo Model DMC-D1 HEPA Filter

1. Remove the hardware from the cover plate of the HEPA's.
2. Remove the cover plate and pull the HEPA's out of the HEPA frame.
3. Install the new HEPA filter in the frame with the gasket towards the inside of the frame. Take note of the airflow direction arrow on the side of the HEPA filter, airflow is from the inside of the unit to the outside.
4. When the HEPA filter is installed in the frame, position the cover plate and tighten the hardware so that the HEPA filter is securely installed.



8. TROUBLE SHOOTING GUIDE



Disconnect all power supply before services.

TROUBLE	POSSIBLE CAUSE	REMEDY
A. Fan does not start	1. Not wired correctly.	Check and correct internal motor wiring for proper connections for your voltage (see Wiring Diagram)
	2. Proper wire size not used for motor	Rewire per national and local electric codes for proper wire size.
B. Fan set starts, but does not keep running	1. Incorrect overload protection is installed	Check for proper motor overload protection. Reset or replace if needed for proper value.
	2. Mist collector doors are open or not closed tight	Tighten doors securely
	3. Electrical circuit fuses	Check if the supply circuit has sufficient power to run all equipment
C. Excessive noise/vibration of the fan	1. Deposit on the blades	Clean the blades
 If this happens it should be rectified at once	2. Worn blades	The fan wheel has to be replaced
	3. Worn bearings	The bearings have to be replaced
D. Oil mist emission	1. Filter element installed improperly	Check that the gasket on the filter element is firmly pressed to the fan plate and that the filter element is correctly installed.
	2. Filter element damage, dents in the end caps, gasket damage or holes in pleated media	Replace the filter element. (see chapter 7.4)
	3. Doors not airtight	Tighten doors securely and check sealing
E. Insufficient airflow	1. Fan wheel rotating wrong way	Check fan rotation. Refer to rotation sticker on fan housing
	2. Openings not properly sealed	Check doors, that they are closed and tightened securely.
	3. Outlet is restricted	Check outlet for blockage. Remove material or debris that is blocking the outlet.
	4. Plugged first stage filter.	Remove and clean or replace. (see chapter 7.4.1)
	5. Plugged second stage filter element wrap and/or third stage filter element.	Filter element wrap and/or filter element needs to be replaced. (see chapter 7.4.2 and 7.4.3)
	6. Plugged HEPA filter(s).	HEPA filter(s) need to be replaced. (see chapter 7.5)
F. Insufficient hopper discharge.	1. Plugged drain screen.	Remove and clean drain screen. (see chapter 7.1)
	2. Plugged P-trap.	Clean P-trap. (see chapter 7.2)
	3. Plugged collection bottle.	Remove and clean collection bottle and bottle faucet. (see chapter 7.3)
G. Liquid leaking from collector door.	1. Plugged P-trap.	Clean P-trap. (see chapter 7.2)
	2. Plugged or full collection bottle.	Drain, remove and clean collection bottle and bottle faucet. (see chapter 7.3).
H. Magnehelic gage is in the red zone	1. Plugged third stage filter element and/or second stage filter element wrap	Replace third stage filter element and/or second stage filter element wrap (see chapter 7.4.2 and 7.4.3).
I. Insufficient airflow and magnehelic gage is in the green zone	1. Plugged first stage filter and/or inlet ducting	Clean first stage filter (see chapter 7.4.1) and inlet ducting

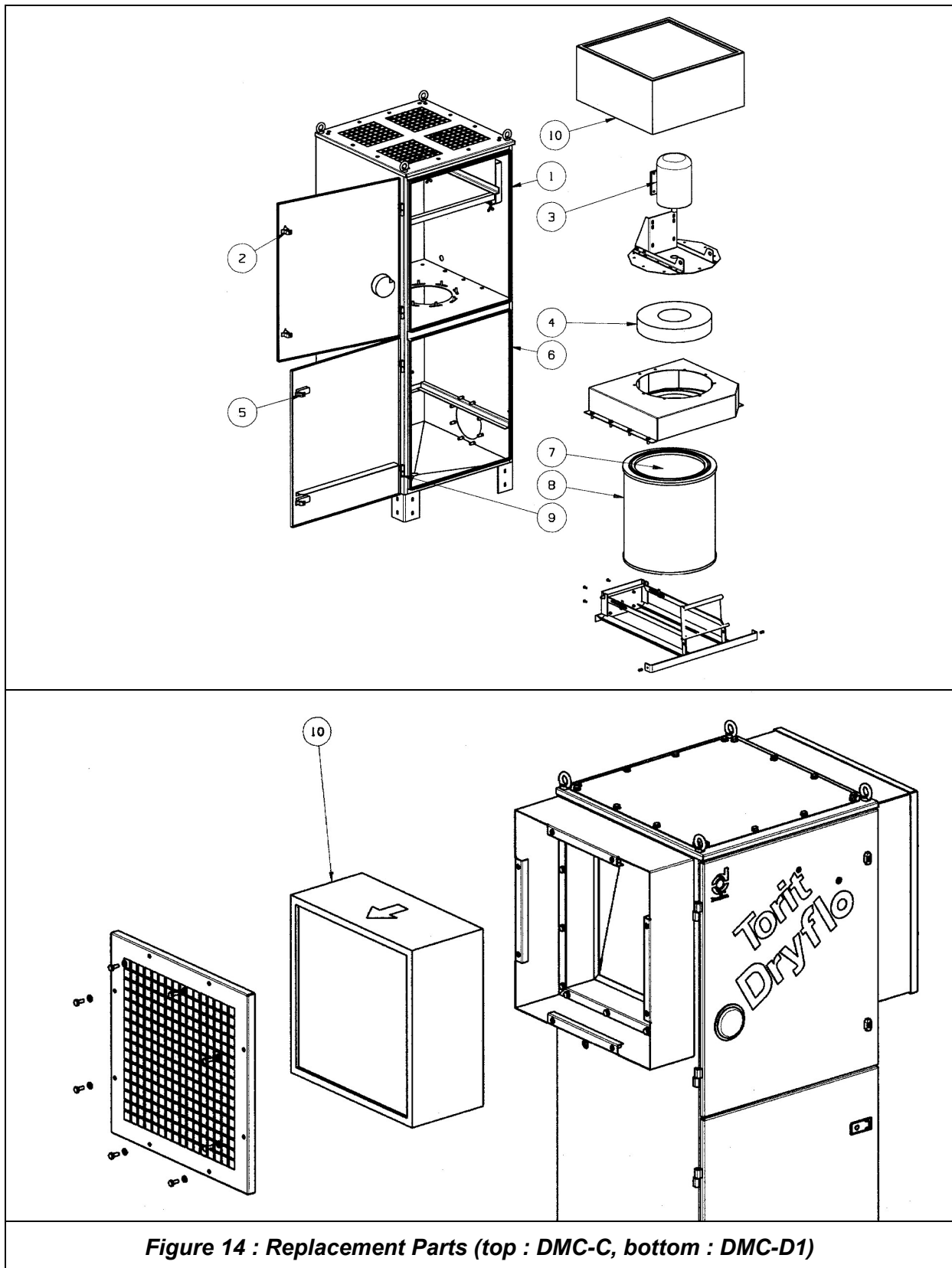


Figure 14 : Replacement Parts (top : DMC-C, bottom : DMC-D1)

9. SPARE PARTS

Item	Part number	Description	Model
1	AD1000024	Door gasket kit – Clean air plenum	C + D1
2	262-2371	Latch tool operated	C + D1
3	726-1079	Motor DMC-C – 1.5 kW	C
3	726-1074	Motor DMC-D1 – 2.2 kW	D1
4	726-1078	Fan wheel for 1.5 kW motor	C
4	726-1075	Fan wheel for 2.2 kW motor	D1
5	AD1000005	Latch flush	C + D1
6	AD1000025	Door gasket kit – Dirty air plenum	C
6	AD1000026	Door gasket kit – Dirty air plenum	D1
7	262-5044	Third stage filter element +second stage filter element wrap	C
7	262-5045	Third stage filter element+second stage filter element wrap	D1
7	P78-6782	WSO 25 (smoke) filter element	D1
8	262-5048	Second stage filter element wrap	C
8	262-5049	Second stage filter element wrap	D1
9	262-2372	Hinge	C + D1
10	262-2334	HEPA filter	C +D1
	262-2327	First stage filter - wire mesh	C + D1
	263-4139	First stage filter - polypropylene	C + D1
	263-4137	First stage filter - thin screen	C + D1
	263-4140	Drain screen	C + D1
	262-0112	Magnehelic gage	C + D1
	262-1201	Control box 3x230V - 50 Hz	C
	262-1171	Control box 3x400V – 50 Hz	C + D1
	726-1107	Magnehelic gage pack	C+D1
	726-1076	Leg pack	C+D1
	263-4133	Collection bottle	C+D1
	263-4131	P-trap	C
	263-4132	P-trap	D1



When ordering parts, give model number and serial number of mist collector, description and quantity of parts desired.
(quantity for DMC-C : 1, for DMC-D1 : 2)

