

PROCHEM. **DRR**

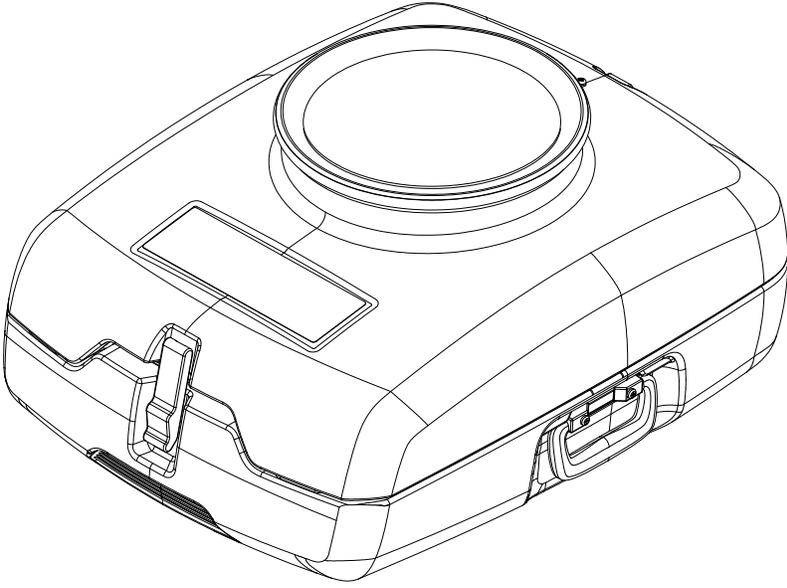
TRIAD

AFD

AIR FILTRATION DEVICE

Operating instructions (ENG)

MODEL: 10079020



Read these instructions before using the machine.



Model: _____

Date of Purchase: _____

Serial Number: _____

Dealer: _____

Address: _____

Phone Number: _____

Sales Representative: _____

Overview

The Triad AFD (Air Filtration Device) improves healthful air quality, removing particulates including mold and spores.

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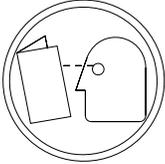
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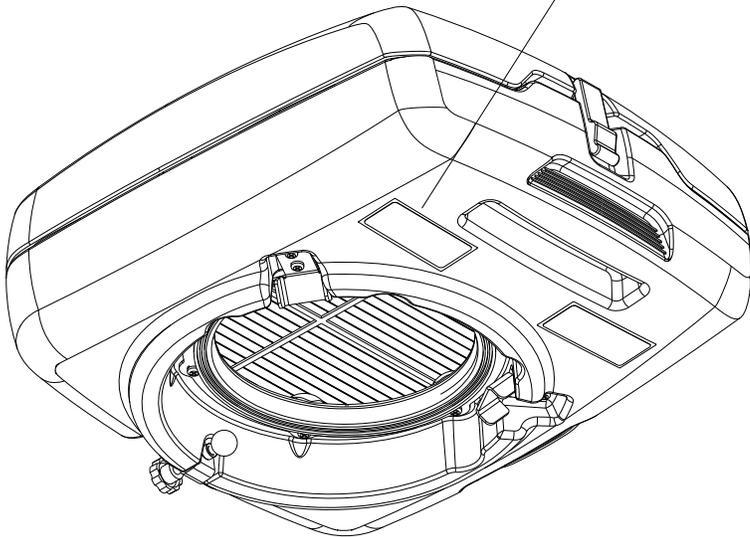
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Safety Label Location

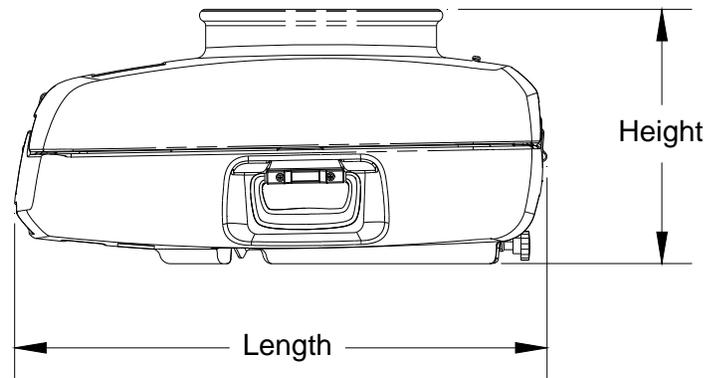
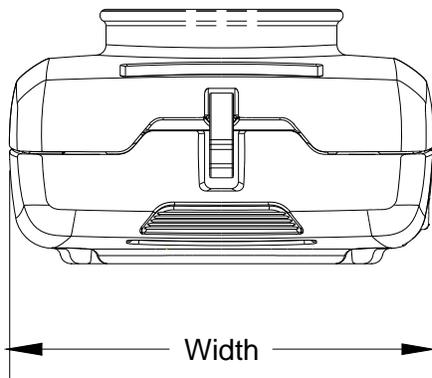
 WARNING	<p>BREATHING HAZARD Mold spores, bacteria, and other hazardous particles may be present. Wear NIOSH - approved respirator when changing the filters and cleaning unit.</p> <p>DANGER POUR LA RESPIRATION Des spores de moisissures, des bactéries et d'autres particules nocives peuvent être présentes. Porter un respirateur approuvé par le NIOSH en remplaçant les filtres ou en nettoyant l'élément.</p>
 AVERTISSEMENT	
	
	

Label, Warning AFD
8.633-799.0



Technical Specifications

ITEM	SPECIFICATION
Weight	25.0 lbs.
Length	25.25"
Width	20.25"
Height	12"
Construction	Durable Rotomold Body
Duct Inlet Connection	12" Diameter Flex Duct
Filters	1st Stage - 1" Pleated
	2nd Stage - 1" Pleated
	2nd Optional Stage - 1" Activated Carbon
	3rd Stage - 2" HEPA
Triad Air Flow Rate	450 CFM with filters at 1.48 amps



Installing AFD on the Triad Thruster Fan

1. Remove all cords and ducting from fan's top intake nozzle.
2. Check all seals and gaskets for any damage. If required, only replace with Prochem factory parts.
3. Lift the AFD over the Triad fan.
4. Catch the fan's top intake flange with the AFD's 2 housing retention tabs, and let it rest on top of the fan.
5. Tighten the AFD's securing knob until the knob's ball is tightly under the fan's intake flange.

NOTE: Attaching duct to the AFD intake is the same as attaching it to the Triad's intake.

NOTE: Cords can be stored around the intake nozzle of the AFD, like the Triad. Leave enough slack so the upper housing can be removed easily to change the filters.

6. Switch Triad air mover to the 'on' position.
7. Remove the 'Containment Plug' from the inlet of the AFD.
8. Adjust the 'Restrictor Plate Assembly' if operating the AFD in a negative air ducting situation. If operating in an open room or if controlling airflow is not desired remove the 'Restrictor Plate Assembly'.
9. Prior to moving or transporting the AFD the containment plug should be re-installed. To do this, while the air mover is still operating install plug into inlet neck of the AFD. The suction of the air mover will pull the plug into the neck. This will seal the collected contaminants within the AFD during transit or relocation.

Back Draft Prevention

WARNING:

Exhausting too much air from a space with Open Combustion Devices (e.g. furnace, fireplace or water heater) can cause those devices to back draft. This can contaminate the space with potentially fatal gases.

Use the fan as a filtering unit only. Exhausting no air from the space and thus causing no negative pressure or back drafting.

OR

Exhaust a very limited amount of air, which does not cause back drafting.

The intake of the AFD has a rotating air flow limiting device.

OR

Direct one or more outlet ducts from the fan to the room with combustion devices. This will positively pressurize the room, thus preventing back drafting.

WARNING:

When exhausting air from a space, always check Combustion Devices with the fan running to guarantee that back draft prevention measures are working.

Filter Replacement

1. Remove any cords wrapped around neck of AFD

WARNING:

The filters will have captured potentially dangerous mold spores that may have been in the air in the disaster restoration and remediation environment. Follow all standards and recommendations found in IICRC S500 and IICRC S520.

2. Unlatch and remove the upper housing.
3. Flip the upper housing over.
4. Rotate the 4 filter retention tabs to clear the filters.
5. Remove the stage 2 filter, then the stage 1 filter.
6. Wipe out upper housing with disinfectant.
7. Replace the clogged filter(s) with new filter(s) with the air flow directional arrows on the filters pointing down.
NOTE: When conditions necessitate the use of activated charcoal, the Charcoal Filter should be installed directly downstream of the stage #1 filter.
8. Rotate the 4 filter retention tabs to hold the filters in place.
NOTE: The AFD is designed to make the expensive HEPA filter last as long as possible by running the air through the pre-filters first. The upper housing's pre-filters will be replaced more frequently than the HEPA filter.
9. Rotate the 8 filter retention tabs on the lower housing to clear the full HEPA filter.
10. Remove the full HEPA filter from the lower housing.
11. Wipe out the lower housing and the seal with disinfectant.
12. Insert a new HEPA filter into the lower housing with the air flow directional arrows on the filter pointing down.
13. Rotate the 8 filter retention tabs on the lower housing to hold the HEPA filter in place.
14. Place the upper housing on top of the lower housing and latch in place.

Cleaning

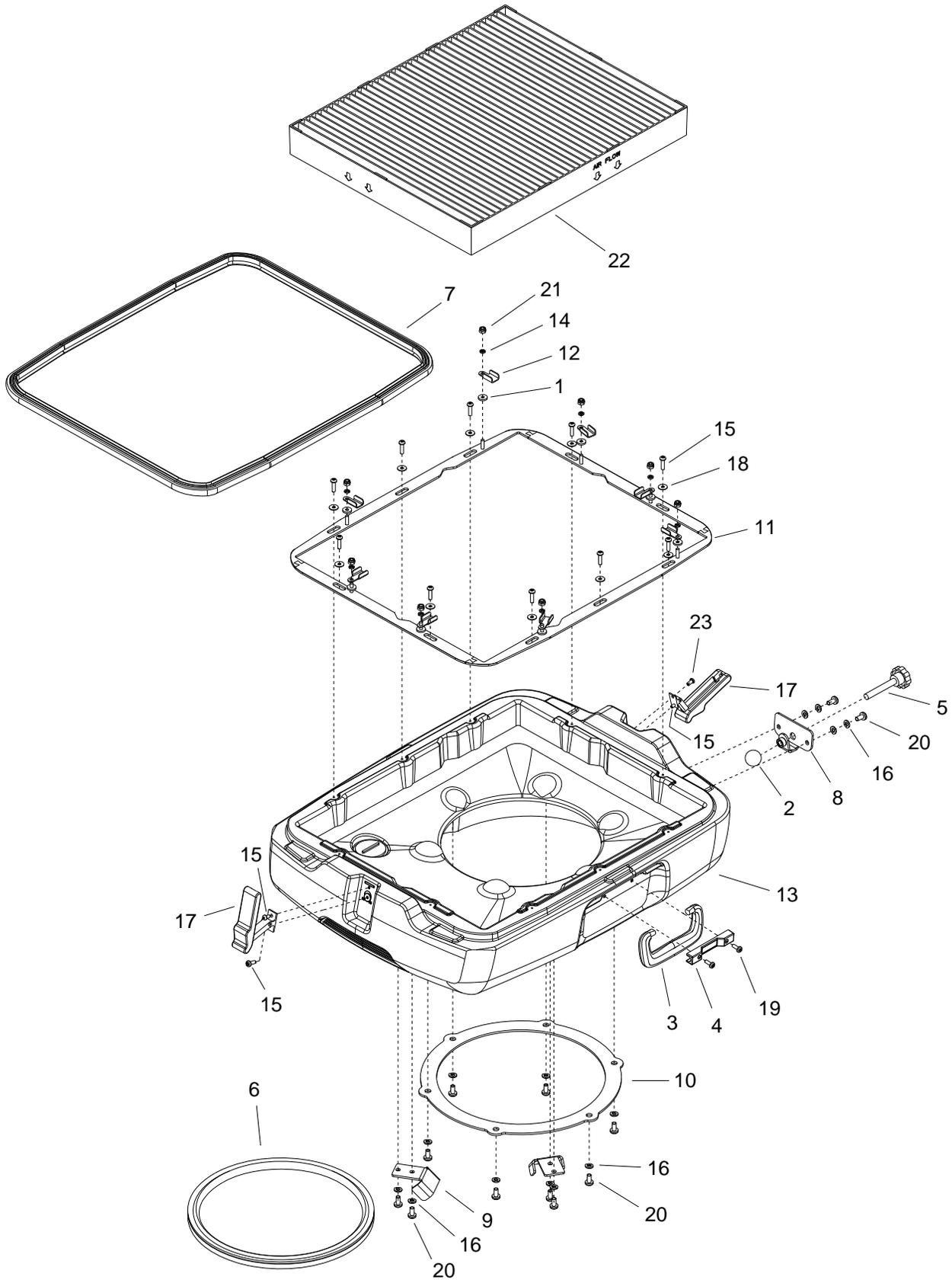
Perform after each job.

1. Dispose of all filters properly as per IICRC S520.
2. Disassemble the AFD and clean thoroughly as per IICRC S520.

NOTE: The rotomold halves of the AFD can be sprayed with water since the AFD contains no electronics or other components that can not be wet.

3. Towel dry parts or allow parts to air dry.
4. Install new filters.
5. Re-assemble AFD.
6. Place clean AFD into a bag and close bag until next use.

PARTS



REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86341990		8	SPACER, NYLON .219ID X .50D X .156H		
2	86338090	-	1	KNOB, BALL		
3	86338070	-	1	HANDLE		
4	86338060	-	1	BASE, HANDLE		
5	86338050	-	1	KNOB, 1.38OD X 3/8-16 X 2.50		
6	86336590	-	1	SEAL, LOWER		
7	86336580	-	1	SEAL, UPPER		
8	86336560	-	1	ASM, THREADED RETENTION TAB		
9	86336550	-	2	TAB, HOUSING RETENTION		
10	86336540	-	1	PLATE, SEAL MNT		
11	86336530	-	1	ASM, AFD GASKET RING		
12	86336520	-	8	TAB, FILTER RETENTION		
13	86336250	-	1	HOUSING, AFD LOWER, TRIMMED		
14	86279470	87165	8	WASHER, #10 SPLIT		
15	86276290	70626	13	SCR, #10 X 3/4 PPHST HI-LO BLK		
16	86173340	87514	14	WASHER, SPLIT LOCK, 1/4, SS		
17	86161800	46-802531	2	LATCH, CONCEALED KEEPER		
18	86010650	87018	10	WASHER, #10 X 9/16 FLAT		
19	86006950	70532	2	SCR, 10-32 X 1/2 PPHMS BLK		
20	86345560	-	12	SCR, 1/4-20 X 5/8 PPHMS SS		
21	86005640	57030	8	NUT, 10-32 HEX NYLOCK		
22	98409300	-	1	SET, 10 HEPA FILTER		SOLD IN SETS(10)
23	86274520	-	1	SCR, 10 X 32 X .38 HI-LO		

REF	PART NO.	PRV NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86338750	-	1	ASM, RESTRICTOR PLATE		
2	86338080	-	1	LANYARD, 6.0 W/LOOP & EYE		
3	86338040	-	1	RING, SPLIT, ID .802"		
4	86338000	-	1	PLUG, CONTAINMENT		
5	86336520	-	4	TAB, FILTER RETENTION		
6	86336240	-	1	HOUSING, AFD UPPER, TRIMMED		
7	86278990	87017	1	WASHER, #8 X 3/8 FLAT		
8	86276290	70626	1	SCR, #10 X 3/4 PPHST HI-LO BLK		
9	86275460	70481	2	SCR, 1/4-20 X 3/4 BHCS		
10	86272620	80670	1	PIN, CLEVIS		
11	86173340	87514	4	WASHER, SPLIT LOCK, 1/4, SS		
12	86010630	87013	2	WASHER, 1/4 X 5/8 OD SS		
13	86276160	70604	4	SCR, 10-32X5/8 PPHMS BLK		
14	98409540	-	1	SET, 12 STAGE 1 FILTER		SOLD IN SETS (12)
15A	98409550	-	1	SET, 12 STAGE 2 FILTER		SOLD IN SETS (12)
15B	86341690	-	1	FILTER, CARBON ACTIV, 16" X 16" X 1"		OPTIONAL

Suggested Spare Parts

PART NO.	PRV NO.	DESCRIPTION	SERIAL NO. FROM	NOTES
98409300	-	SET, 10 HEPA FILTER		SOLD IN SETS (10)
98409540	-	SET, 12 STAGE 1 FILTER		SOLD IN SETS (12)
98409550	-	SET, 12 STAGE 2 FILTER		SOLD IN SETS (12)
86161800	46-802531	LATCH, CONCEALED KEEPER		
86338000	-	PLUG, CONTAINMENT		
86338750	-	ASM, RESTRICTOR PLATE		
86336580	-	SEAL, UPPER		
86336590	-	SEAL, LOWER		
86338070	-	HANDLE		
86338060	-	BASE, HANDLE		
86336520	-	TAB, FILTER RETENTION		
86341690		FILTER, CARBON ACTIVE, 16 X 16 X 1		OPTIONAL

REF. NO.	MODEL: SERIAL #
1	N/A