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## **Installation & Operations Manual for Energenics Duct Mounted Utility Free OPL Series Lint Filters**

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# THE NEED FOR A LINT FILTER / HOW IT WORKS

Your new Energenics State-of-the-Art Lint Filter has evolved from over 30 years of research and development to be the optimum solution for catching up to 98% of all bypassed lint produced from textile dryers. 3 problems that are minimized by reducing excess lint are:

1. Dryer exhaust may be in close proximity to air-handling equipment such as A/C Units, Cooling Apparatus, and Fresh Air Intake systems.
2. When there is a longer exhaust run from the dryers to the outside atmosphere there is likely that the inside of the duct will accumulate with lint causing dryer inefficiency and creating a potential fire hazard.
3. Quite often the Laundry Room is located near the front of the building. When this occurs the duct is usually directed to the front of the building. This results in an unsightly mess in the landscaping.

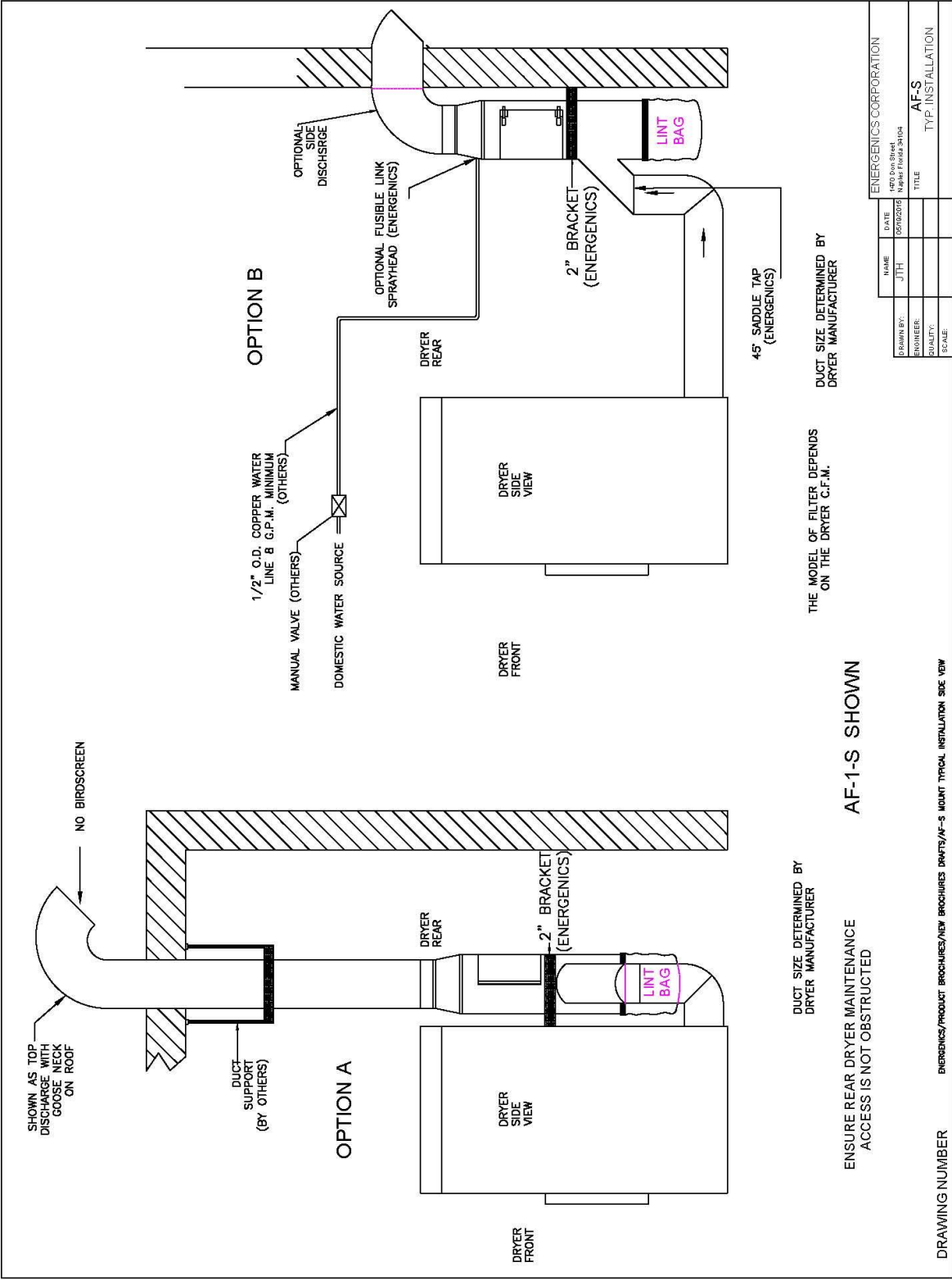
The Self-Cleaning Duct Mounted (for single OPL dryer applications) Utility Free OPL series lint filter (must be mounted vertically) filter's key components are an internal lint screen for lint capture and a removable lint bag at the bottom of the filter for storage and disposal. When the dryer is operating the lint screen which is similar to a parachute is expanded upward. As the dryer cycle progresses the lint screen forms a canopy which captures the lint while letting dryer exhaust flow efficiently through the screen. When dryer is off the lint screen relaxes, allowing the canopy to collapse shedding the lint into the storage bag or container. At the end of the shift the storage bag or container is emptied into a trash receptacle. This model filter has a large inspection door for maintenance. **If the pressure alarm activates, the bag must be emptied immediately.**

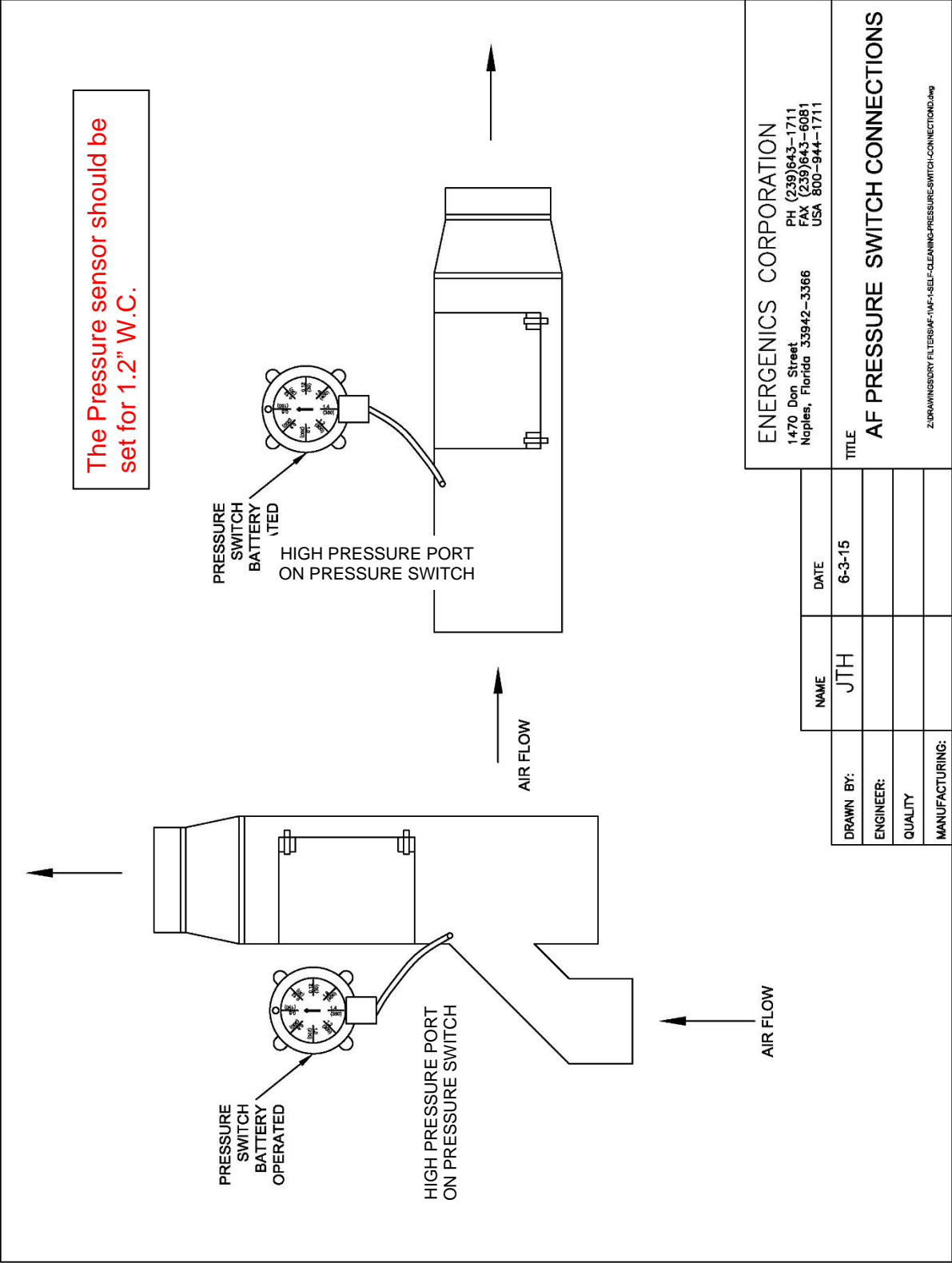
The Manual Cleaning Duct (for single OPL dryer applications) Mounted Utility Free OPL series lint filter's (can be mounted horizontally) key component is an internal lint screen for lint capture and has a large inspection door for easy manual lint removal. **If the pressure alarm activates, the lint filter screen must be cleaned immediately.**

## RECEIVING AND INSTALLATION

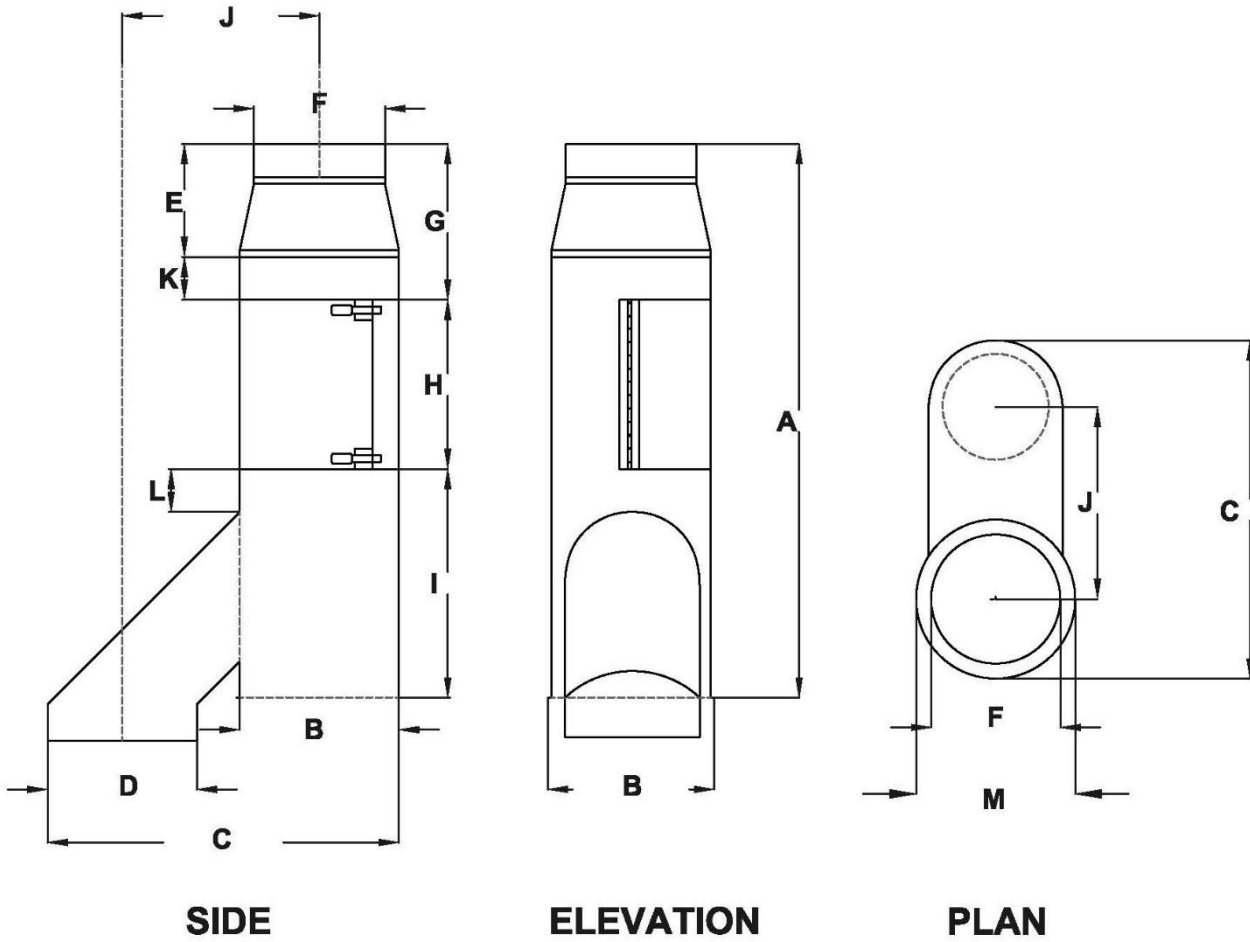
1. Inspect the filter inside and outside for damage.
2. Determine whether mounting will be made to the wall, the rear of the dryer or to a remote position using uni-strut or (similar) as an anchor. Optional legs can be supplied as an option (call factory for pricing). The filter can be installed in any proximity to the dryer exhaust origin.
3. The self-cleaning model must be mounted vertically with the exhaust in the upward position. The manual cleaning model can be mounted in any 360 degree orientation. Make sure that the inspection door is accessible when you determine the orientation.
4. The lint filter should be attached to the ductwork with very short pop rivets.  
*Sheet metal screws should not be use because the pointed screw can catch lint resulting in lint build-up inside the duct resulting in poor dryer performance overheating of dryer exhaust.*
5. Using the supplied black felt, line the inside of the mounting bracket so that the surface of the Lint Collector does not get scratched.
6. Install the black vinyl lint bag (self-cleaning models) to the bottom of the filter over the felt strip and tighten. On filters utilizing a booster fan your bag will have an aluminum basket inside to maintain the structural integrity under slight suction.
7. Duct the single dryer exhaust from the dryer to the inlet tap located at the bottom of the filter. If the dryer duct is smaller than the filter inlet, use a duct reducer to attach the filter inlet to the dryer duct.

**\*REMEMBER AS IN ALL DRYER DUCTING NO BIRDSCREEN AT THE EXIT\***



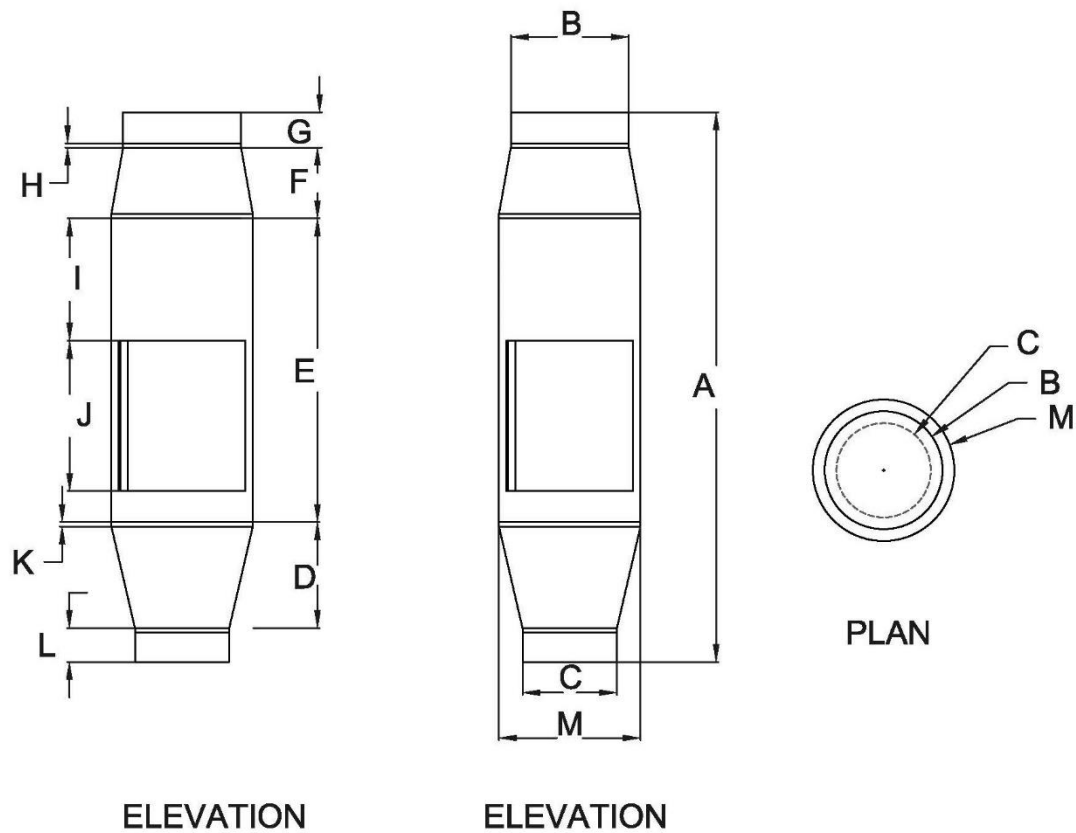


# AF-SELF CLEANING DUCT MOUNTED DIMENSIONAL DIAGRAM



## AF-S-DUCT MOUNTED

# AF-MANUAL CLEANING DUCT MOUNTED DIMENSIONAL DIAGRAM



## AF-M-DUCT MOUNTED

## DUCT MOUNTED UTILITY FREE DIMENSIONAL CHART

MODEL #	AF-1-S	AF-1-M	AF-2.3-S	AF-2.3-M	AF-2.7-S	AF-2.7-M
CLEANING	SELF	MANUAL	SELF	MANUAL	SELF	MANUAL
CFM	1,000	1,000	2,300	2,300	2,700	2,700
OPER. WT. LBS.	22	18	30	26	33	31
SHIP. WT. LBS.	28	22	37	32	40	38
A	41 3/4	37	48	44	48	48
B	12	10	16	14	16	16
C	23 1/4	8	34	14	34	16
D	8	N/A	14	6 3/8	14	N/A
E	8 1/2	25 3/4	8 2/3	26	7	N/A
F	10	6	14	6	16	N/A
G	11 3/4	3	11	3	7	N/A
H	12 3/4	3/8	16 3/4	3/8	16 3/4	N/A
I	17 1/4	10 3/8	24 1/4	6 5/8	24 1/4	N/A
J	13 1/4	12 3/4	18	16 3/4	19	16 3/4
K	3 1/4	3/8	2	3/8	N/A	N/A
L	3 1/4	2 7/8	2	3	2	N/A
M	12	12	16	16	16	16



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# MAINTENANCE REQUIREMENTS

The frequency of your maintenance requirements depends upon the number of hours of operation and upon variances in your product output. For a single-shift operation, without special problems, the frequency recommended below should suffice. You should set your own schedule based on your experience.

## **APPLICABLE TO BOTH MODELS**

### **1. WEEKLY**

Visually inspect the filter inside and outside. At time of such inspection, note and correct any discrepancies from normal operation. Inspection should be made at the dryer for lint, which may back up and cause a fire if not cleaned. Empty the lint bag and clean the screen as required.

### **2. QUARTERLY**

Remove lint screen and wash in a regular wash cycle. This will remove any accumulation of chemical residual that builds up and can eventually reduce airflow through the screen and increase dry times.

## **SELF CLEANING MODELS**

### **1. DAILY**

Inspect lint bag and empty when full. Examine internal lint screen and remove residual lint that has not shed from the screen

## **MANUAL CLEANING MODELS**

### **1. DAILY**

When the backpressure sensor activates open inspection door and remove the lint from inside the filter. Examine the lint screen and remove residual lint from inside the lint screen.

# PARTS LIST & CUSTOMER SERVICE

**ENERGENICS CUSTOMER SERVICE 1-800-944-1711**

**[www.energenics.com](http://www.energenics.com)**

<b>MODEL #</b>	<b>LINT SCREEN #</b>	<b>LINT BAG #</b>
AF-S-1	AF1120	B-AF-1
AF-S-2.3 & 2.7	AF2.3120	B-AF-2.3
AF-M-1	AF1120	N/A
AF-M-2.3 & 2.7	AF2.3120	N/A