

AIRFLOW OPTIMIZER SYSTEM

MAINTAINS EXHAUST SYSTEM AIRFLOW TO OPTIMIZE DRYING



FEATURES AND BENEFITS

- Maintains Optimal Airflow
- Minimizes Drying Time
- Fully Automatic (Pre-programmed)
- Corrects Ducting Inefficiencies
- Conserves Energy

INCLUDES

- Variable Frequency Drive (VFD)
- Pressure Transducer
- Tubeaxial Booster Fan & Motor

OPTIONS

- NEMA 4 IP66 Enclosure w/ HMI
- Drum and Flexible Connector
- Programming for Dryer Efficiency

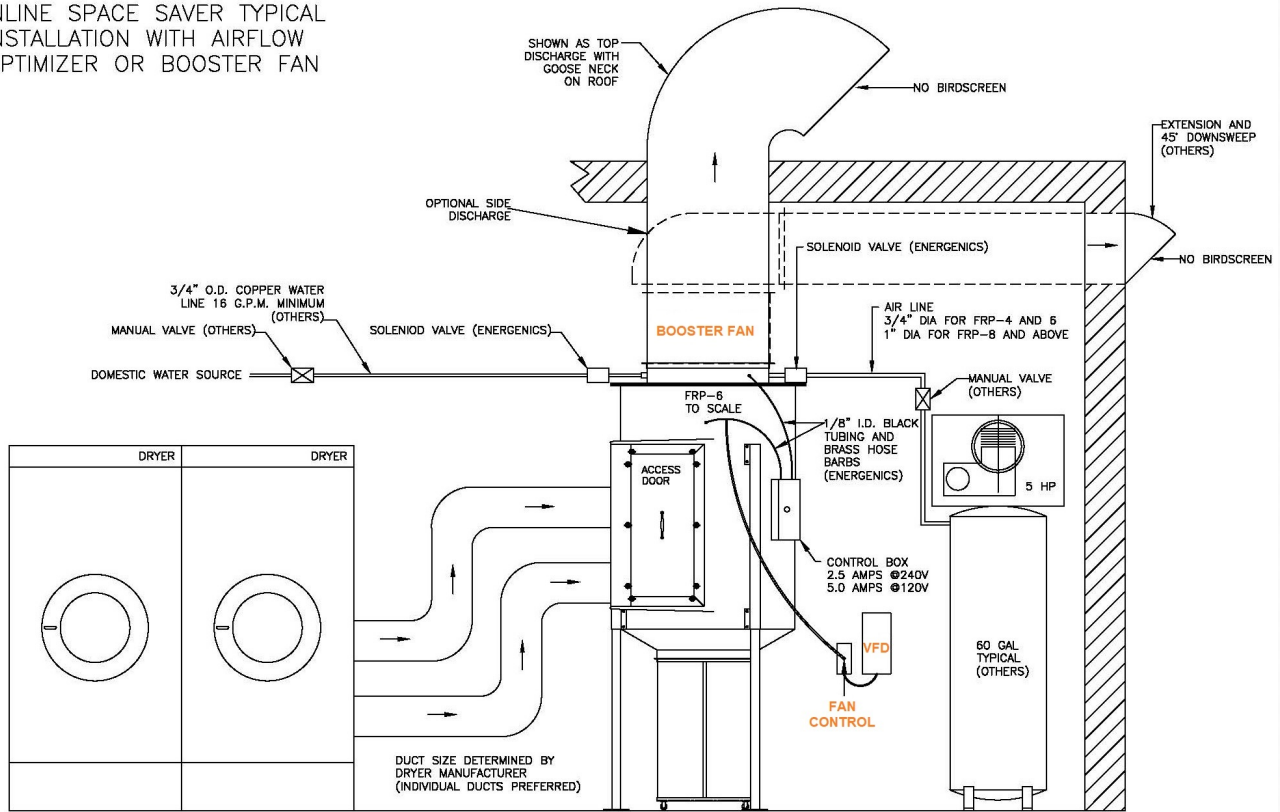


HOW IT WORKS

- The primary component of the Airflow Optimizer (AFO) system is a pressure sensing transducer that in conjunction with a VFD and booster fan, allows dryers to perform at the manufacturers airflow specifications.
- By measuring back-pressure at the lint filter or in the duct, the AFO ensures airflow in the exhaust system is always balanced, even when dryers are cycling on and off in different intervals.
- The AFO will quickly and automatically adjust the booster fan output to match airflow from the dryers. The system is programmed to monitor continuously for optimal exhaust air balance.

OPERATING PRINCIPLES AND SPECIFICATIONS

INLINE SPACE SAVER TYPICAL INSTALLATION WITH AIRFLOW OPTIMIZER OR BOOSTER FAN



AIRFLOW OPTIMIZER SYSTEM OPTIONS

PRODUCT	CFM	FAN	HP	FLA (208V/480V)
AFO-2	2,000	16"	1	2.8 / 1.4
AFO-4	4,000	21"	1.5	4.0 / 2.1
AFO-6	6,000	24"	2	5.4 / 2.7
AFO-8	8,000	24"	3	7.8 / 3.9
AFO-10	10,000	30"	3	7.8 / 3.9
AFO-15	15,000	34"	5	13.4 / 6.7
AFO-20	20,000	42"	7.5	17.9 / 9.0
AFO-25	25,000	48"	7.5	17.9 / 9.0
AFO-30	30,000	48"	10	24.6 / 12.3

UTILITY REQUIREMENTS

- Specify 208V or 480V 3-Phase
- System utilities must operate independently from sources of airflow (dryers).



Enclosure Option w/ HMI (interior view)

Note: Changes in back-pressure measured in inches of water column (WC). The system, utilizing a variable frequency drive, maintains airflow at .05" WC.

Contact Energenics Corp. for the name of your authorized distributor.



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