

SFC Series Pressure & Flow Controller



Nearly all plant air systems have an ever changing fluctuation of demand and air pressure. Peak air demands will draw down pressure in the air system causing dramatic pressure fluctuations. These changes inevitably lead to inconsistent production, poor product quality and wasted energy due to running the system at a higher than necessary pressure to compensate for these dramatic swings in pressure.

The Pure-Aire SFC System Flow Controller will show a direct compressed air system improvement when installed in conjunction with an adequate supply-side storage tank. The system will enable the supply-side storage tank installed with the compressors to store air for peak demands at an appropriately set control pressure. The SFC will deliver the desired plant air pressure set point - consistently delivering +/- 1% of pressure set point. Peak air consumptions will be drawn from storage and less compressor HP will be required for peak events – **saving you energy, money, scrap and lost production.**

- Flowrates to 22,000 cfm
- Parallel valve design to provide redundancy
- Stabilization of the plant production quality by stabilizing the compressed air pressure +/- 1%
- Stabilize the system
air pressure in responses to the dramatic fluctuations of demand
- Minimize waste thru air leak reduction
- Reduces compressor energy consumption
- Improves compressor controls and response to changing air requirements
- Non-corrosive Aluminum piping.
- Energy Savings of Approx. 1% for every 2 psig change in pressure.
- Single valve design available to minimize investment cost



Energy savings of thousands of dollars are typically realized with an extremely short payback timeframe. Most customers report production savings which are multiples of the energy savings they realized.

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Technical Data

Standard Size range:	0 to 22,000 scfm
Maximum operating pressure:	200 psig (standard)
Minimum operating pressure:	50 psig
Temperature:	50° to 150° F

Flow range based on 105 psig inlet pressure to SFC.

Inlet pressure must be 5 psi or higher than outlet pressure.

Weights and Dimension

Model	Rated Flow*	Connections	Approx. Dimensions L x W x H	Approx. Weight
EFC-250	250 scfm	1 1/2" NPT	12 x 7 x 10	20
EFC-750	750 scfm	2" NPT	12 x 7 x 10	20
SFC-500	500 scfm	2" NPT	22 x 8 x 30	35
SFC-750	750 scfm	3" NPT	22 x 8 x 30	50
SFC-1000	1000 scfm	3" NPT	22 x 8 x 30	80
SFC-2000	2000 scfm	4" FLG.	24 x 11 x 30	110
SFC-3500	3500 scfm	6" FLG.	33 x 11 x 32	750
SFC-5500	5500 scfm	6" FLG.	39 x 18 x 32	900
SFC-6500	6500 scfm	8" FLG.	39 x 18 x 32	1100

*based on 105 psig inlet pressure

The SFC installs at the intermediate point of the compressed air system; downstream from the contaminant removal equipment and air receiver storage, and upstream from the main piping distribution system. The SFC Flow Controller constantly monitors air pressure as it is delivered to production and releases air from the receiver storage as needed to maintain a continuous, stable air pressure supply.

The SFC was developed with feedback from engineers and compressor service technicians across the U.S. resulting in the most reliable and serviceable design available. All of the Pure-Aire products are engineered, manufactured and supported in the United States.