

Liberty Systems' PFC range of oil vapor removal adsorbers has been designed to reduce oil vapor and odor from any compressed air system. The activated carbon towers will, by the use of adsorption, reduce residual oil content to lower than 0.003 mg/m<sup>3</sup> at 95°F and 100 psi inlet pressure.

The unit has been designed to deliver air quality to ISO8573-1 (class 1 for oil) at 122°F and 232 psig inlet conditions when used in conduction with Liberty Systems' water separators, coalescing filters and compressed air dryers.

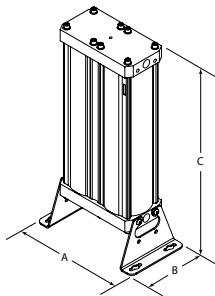
Manufactured from high quality extruded aluminum, the modular construction design maintains effective operation for air quality for a minimum of 12<sup>(3)</sup> months operation. Its unique design ensures a low differential pressure for highly efficient and economical operation.

The PFC range utilizes a unique adsorbent filled activated carbon cartridge complete with integral diffusers and built-in 1 micron dust filter as standard.

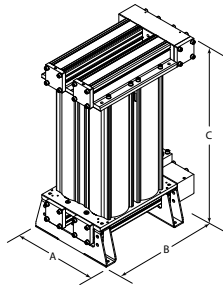
## Oil Vapor Removal System

# Sizing & Specifications

Filter Model	Inlet & Outlet	Rated Flow <sup>(1)</sup>		Dimensions (inches)			Approx. Weight	Service Kit <sup>(2)</sup>	
	NPT	scfm	Nm <sup>3</sup> /h	A	B	C	lbs	Part No.	Qty
PFC185	1"	185	315	17.3	9.7	25.4	88	NVR SK 185	1
PFC370	1"	370	630	17.3	9.7	31.5	110	NVR SK 370	1
PFC750	2"	750	1275	15.8	22.6	34.3	227	NVR SK 370	2
PFC1100	2"	1100	1870	15.8	29.2	34.3	313	NVR SK 370	3
PFC1500	2 1/2"	1500	2550	15.8	35.8	34.3	397	NVR SK 370	4



PFC185 to 370



PFC750 to 1500

Specifications	
maximum working pressure	232 psig
recommended operating temperature range	36 to 95°F
maximum operating temperature	122°F
estimated cartridge life	12 months <sup>(3)</sup>

Inlet Air Quality Requirements <sup>(4)</sup>	
maximum particulate size	0.01 micron
maximum pressure dew point	-40°F pdp
maximum oil content	0.05 mg/m <sup>3</sup>

Performance	
maximum outlet air oil content (@95°F)	0.003 mg/m <sup>3</sup> (ppm)

Pressure Correction Factors <sup>(5)</sup>							
inlet air pressure (psig)	14	29	44	58	73	87	100-232
correction factor	0.25	0.37	0.50	0.62	0.75	0.87	1.00

Temperature & Dew Point Correction Factors <sup>(5)</sup>							
inlet air temperature (°F)	<95	104	113	122	inlet dew point (°F)	>+37	<+37
correction factor	1.00	0.98	0.96	0.95	correction factor	0.25	1.00

- (1) At inlet conditions of 100 psig and 95°F and 95°F ambient temperature. For all other operating conditions contact [LibertySystems@LSN2.com](mailto:LibertySystems@LSN2.com) for sizing assistance.
- (2) Includes purification cartridges (including integral inlet diffusers and outlet particulate filters) and all o-rings.
- (3) Provided as an estimate only. Cartridges must be replaced as required to maintain adequate air quality in accordance with all applicable codes and regulations.
- (4) If the air doesn't meet these conditions, contact [LibertySystems@LSN2.com](mailto:LibertySystems@LSN2.com) to confirm the additional treatment required.
- (5) To be used as an approximate guide only. All applications should be confirmed by Liberty Systems. Contact [LibertySystems@LSN2.com](mailto:LibertySystems@LSN2.com).

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