

PHF COMPRESSED AIR DRYERS

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For Ultra-Dry Air to 10 SCFM



Compact, regenerative compressed air dryers capable of achieving dewpoints of -100°F for flows to 10 SCFM. Their compact size and modular design make them ideal for OEM and point-of-use applications requiring ultra-dry air. Accessories include an inlet particulate filter, inlet coalescing filter, outlet filter-regulator assembly, moisture indicator, flow meter, surge tank and sound suppression kit.

PRODUCT FEATURES

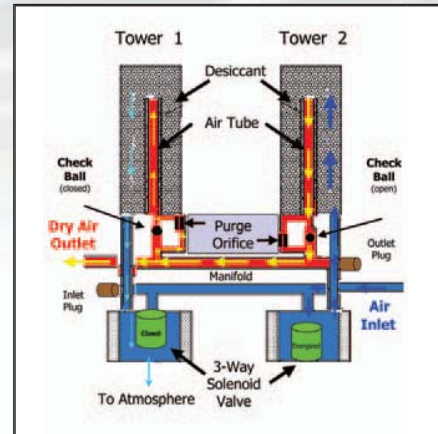
- Ultra-dry air to better than -100°F (-73°C) dewpoint
- Continuous self-regenerative operation
- Outlet flow capacities of 0.1 to 10 SCFM at 100 PSIG
- Operating pressures of 30 to 150 PSIG
- Compact, lightweight aluminum construction
- Low power requirement (35 watts)
- Easy to install and no regular maintenance required
- Ideal for OEM and point-of-use applications

TYPICAL APPLICATIONS

- Low temperature compressed air applications
- Coolant air drying for electronic devices
- Dry-box, optical and spectroscopic instrument purging
- Moisture removal from analytical and chemical process gases
- Pneumatic machine operation (cylinders, motors, gauges, bearings)
- Ozone generation
- Dry air blanketing of plastics and chemicals
- Environmental chambers and test equipment
- Replacement for bottled nitrogen gas
- Analytical instrumentation
- Dilution air for gas sampling

PHF COMPRESSED AIR DRYERS - DESCRIPTION OF OPERATION

Ordinary compressed inlet air is passed through one desiccant bed where the water vapor is removed. The dry air then continues to the outlet side of the manifold and on to the application. A portion of the dried air is expanded through an orifice and directed back through the off-line desiccant bed, purging the accumulated moisture. Every 30 seconds, a solid state timer and two solenoid valves reverse the process. The result is a continuous supply of ultra-dry air.



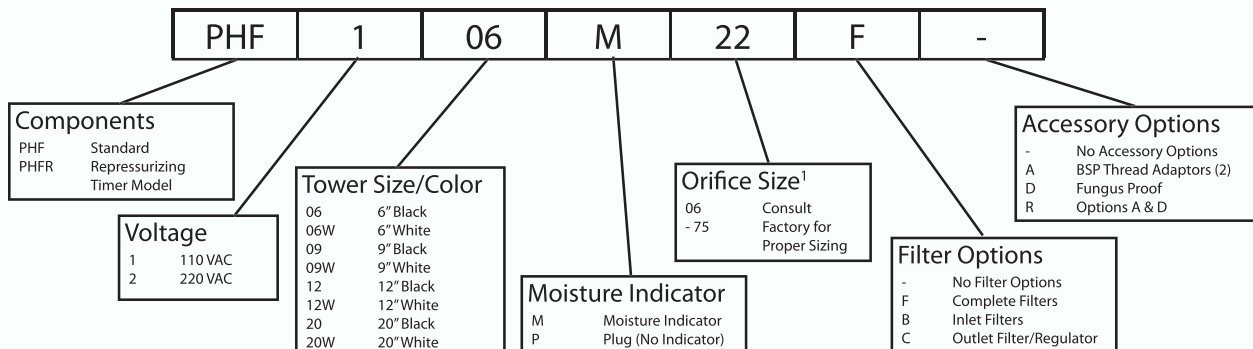
SPECIFICATIONS

Model	Tower Size	MAXIMUM OUTLET FLOW (SCFM) CAPACITY													Purge SCFM	Dim. Inches H x W x D	Wt. (lbs.)
Dewpoint		-40°F/-40°C															
PHF PHFR	6"	0.5	0.8	1.0	1.3	1.6	1.9	2.1	2.4	2.7	2.9	3.2	3.5	3.8	0.7	11 x 8 x 5	7
	9"	1.0	1.6	2.1	2.7	3.2	3.8	4.4	4.9	5.5	6.0	6.6	7.2	7.7	1.5	14 x 8 x 5	8
	12"	1.2	1.9	2.7	3.4	4.2	4.9	5.6	6.4	7.1	7.9	8.6	9.3	10.1	2.1	17 x 8 x 5	9
	20"	1.8	3.0	4.1	5.2	6.4	7.5	8.7	9.8	11.0	12.1	13.2	14.4	15.5	3.3	25 x 8 x 5	19
Dewpoint		-100°F/-73°C															
PHF PHFR	6"	0.3	0.5	0.7	1.0	1.2	1.4	1.6	1.9	2.1	2.3	2.5	2.8	3.0	0.7	11 x 8 x 5	7
	9"	0.5	1.0	1.4	1.9	2.3	2.8	3.3	3.7	4.2	4.6	5.1	5.5	6.0	1.5	14 x 8 x 5	8
	12"	0.7	1.3	2.0	2.6	3.3	3.9	4.5	5.2	5.8	6.5	7.1	7.7	8.4	2.2	17 x 8 x 5	9
	20"	1.1	2.0	3.0	4.0	4.9	5.9	6.9	7.8	8.8	9.8	10.7	11.7	12.7	3.3	25 x 8 x 5	19
		30	40	50	60	70	80	90	100	110	120	130	140	150			
		OPERATING PRESSURE (PSIG)															

CAPACITIES BASED ON +70°F/+21°C. SATURATED INLET. • DEWPOINTS SHOWN ON THIS TABLE ARE ATMOSPHERIC. • TO CALCULATE MAXIMUM INLET SCFM REQUIRED, ADD OUTLET SCFM + PURGE SCFM. • SIZING CHARTS ARE AVAILABLE FOR USE WITH FRACTIONAL HP COMPRESSORS.

ORDERING INFORMATION

Bold Options are Standard Equipment



NOTES:

1. Contact factory for orifice sizing based on available operating pressure, application flow requirements and desired outlet dewpoint.

P011048F15 - 2-yr Warranty Kit, PHF

P011048F24 - Annual Maintenance Kit, PHF