

PSA COMPRESSED AIR DRYERS

Features:

- Dewpoint As Low As -100°F
- Flow Capacities To 50 SCFM At Pressures From 50 To 150 PSIG
- Compact Lightweight Aluminum Construction
- Continuous Self-Regenerative Operation
- Easy To Install And No Regular Maintenance Required
- Low Electric Power Consumption (10W) And NEMA 4 Rating

Applications:

- Environmental Chambers
- CEMS Systems
- Air Bearings
- Ozone Feed Gas



Our PSA line of desiccant pressure swing adsorption dryers is ideal for point-of-use ultra dry air requirements. The PSA Dryers reduce the dewpoint without operator attention. The compact, rugged, wall mounted design makes them versatile for laboratory, industrial, and OEM service. They are an economical, high performing purifier where extremely dry compressed air is the only solution.

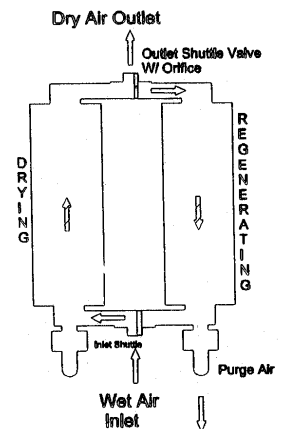
Each unit comes complete with a coalescing pre-filter to remove and protect the dryer from system upsets. These reliable dryers can be easily installed, operated and maintained by non-instrumentation personnel.

The PSA Dryers are maintenance free. Only the pre-filter needs to be replaced on a regular basis.

Applications:

- Dry Boxes
- Purge Electrical Boxes
- Pneumatic Instrumentation
- Replace Bottle Nitrogen
- Lasers
- CEMS
- Air Bearings
- Thermal Test Equipment

Our desiccant dryer employs Pressure Swing Adsorption (PSA) Technology to remove water vapor from compressed air. The inlet (lower) shuttle valve directs the wet air into one of the two desiccant chambers where nearly all of the water vapor is removed. The ultra-dry air leaving the desiccant chamber passes through the outlet (upper) shuttle valve to the application. Both shuttle valves contain a wafer-like disk, which "shuttles" back and forth in the valve body based on the pressure differential created by the position of the two-way solenoid valves. A precision orifice in the outlet shuttle disk allows a portion of the dry air leaving the desiccant chamber to be redirected back through the off-line tower, purging it of its accumulated moisture. The purge stream exits the unit through the open solenoid valve directly below the chamber being regenerated. A muffler is attached to each chamber for noise suppression. A solid-state timer controls the process by opening and closing the solenoid valves.



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Partner of Headline Filters

PS010-1

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MODEL	INLET / OUTLET FLOWS IN SCFM WITH - 40°F DEW POINT**				
	50 PSIG	80 PSIG	100 PSIG	120 PSIG	150 PSIG
PSA 10	6	8	10	12	14
	3	6	8	10	12
PSA 15	9	13	16	18	22
	6	10	13	15	19
PSA 20	11	16	20	24	29
	7	12	16	19	24
PSA 25	14	21	25	29	36
	9	15	19	24	30
PSA 35	20	29	35	41	50
	12	21	27	34	43
PSA 50	28	41	50	59	72
	17	30	39	48	61

**Consult factory for flow rates at -100°F dewpoint

PRINCIPLE SPECIFICATIONS

Outlet Dewpoint:	- 40°F PDP or - 100°F PDP
Operating Pressure:	50 to 150 PSIG Max.*
Inlet & Outlet Connections:	1/4" NPT
Power Requirements:	115V _{AC} , 230V _{AC} , 24V _{DC}
Filter Options:	<ul style="list-style-type: none"> • Inlet 0.01 µm coalescing filter with automatic drain (included) • Outlet 0.01 µm particulate filter-regulator gauge assembly • Outlet 0.01 µm particulate filter
Optional Accessories:	<ul style="list-style-type: none"> • Tower pressure gauges • Electronic humidity alarm

Note: (*) Minimum Operating Inlet Pressure

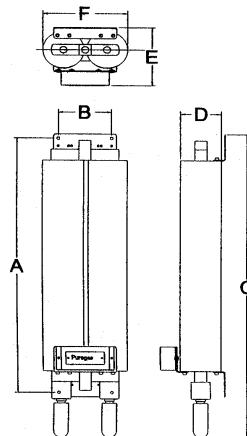


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DIMENSIONS

Model	A	B	C	D	E	F
PSA 10	18.625	6	25.5	3.25	5.5	8.25
PSA 15	18.625	6	25.5	3.25	5.5	8.25
PSA 20	22.935	6	30	4.25	6.375	9.25
PSA 25	22.935	6	30	4.25	6.375	9.25
PSA 35	28.125	6	35.25	4.25	6.375	9.25
PSA 50	28.125	6	35.25	4.25	6.375	9.25

PS010-1