



- Dewpoint As Low As - 40°F or - 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



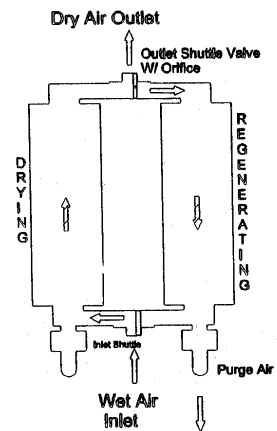
Our PSA line of desiccant pressure swing adsorption dryers is ideal for point-of-use ultra dry air requirements. The PSA Dryers reduce the dewpoint without operator attention. The compact, rugged, and wall mounted design makes them versatile for laboratory, industrial, and OEM service. They are an economical,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

- | | |
|--|---|
| <input type="checkbox"/> Dry Boxes | <input type="checkbox"/> Lasers |
| <input type="checkbox"/> Purge Electrical Boxes | <input type="checkbox"/> CEMS |
| <input type="checkbox"/> Pneumatic Instrumentation | <input type="checkbox"/> Air Bearings |
| <input type="checkbox"/> Replace Bottle Nitrogen | <input type="checkbox"/> 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.

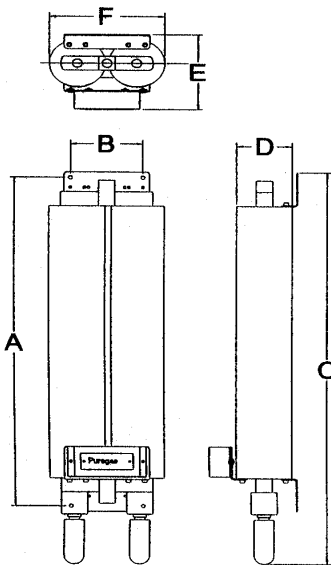




Model	Inlet / Outlet Flows In SCFM With - 40°F Dew point**				
	50 PSIG	80 PSIG	100 PSIG	120 PSIG	150 PSIG
PSA 10	6	8	10	12	14
	3	6	8	10	12
PSA15	9	13	16	18	22
	6	10	13	15	19
PSA20	11	16	20	24	29
	7	12	16	19	24
PSA25	14	21	25	29	36
	9	15	19	24	30
PSA35	20	29	35	41	50
	12	21	27	34	43
PSA50	28	41	50	59	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:	1/2" NPT
Power Requirements:	115V _{AC} , 230V _{AC} , 24V _{DC}
Filter Options:	<ul style="list-style-type: none"> Inlet 0.1 µm coalescing filter with automatic drain (included) Outlet 0.1 µm particulate filter-regulator gauge assembly Outlet 0.1 µm particulate filter
Optional Accessories:	<ul style="list-style-type: none"> Tower pressure gauges Silica gel moisture indicator Electronic humidity alarm



Dimensions						
Model	A	B	C	D	E	F
PSA10	18.625	6	25.5	3.25	5.5	8.25
PSA15	18.625	6	25.5	3.25	5.5	8.25
PSA20	22.935	6	30	4.25	6.375	9.25
PSA25	22.935	6	30	4.25	6.375	9.25
PSA35	28.125	6	35.25	4.25	6.375	9.25
PSA50	28.125	6	35.25	4.25	6.375	9.25