

Compressed Air Purification

J E M A C O



JEMACO
Flair Corp
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This newest generation of heatless desiccant compressed air dryers are designed and built with confidence to offer the compressed air user the highest reliability in the industry. Key to reliability of the PSK Series dryer is the proprietary air flow switching valve. Based on its superior design and proven performance this shuttle valve is covered lifetime replacement warranty.

PSK Series Feature

- Highest Reliability
 - Three valves replace up to 13 separate valves used for air flow switching in other designs
 - Shuttle valve life-tested to more than 500,000 cycles equivalent to 10years of continuous operation
- Minimal Maintenance
 - Upflow drying minimizes effects of accidental slugging with water
 - Muffler cores replace quickly and easily to prevent back pressure in purge exhaust line
- Operating Economy
 - Field adjustable purge flow on standard dryer
 - Adjust purge rate 13% to 17% at 7 bar
 - Match purge to seasonal or process needs
 - Compu-purge automatic purge control is optional
- Vessels are constructed to meet the requirements of ASME code, Section VIII, Division 1 and stamped



How It Works

Oil, liquid water and particulate are removed from inlet air through pre-filter and filtered air passes through lower shuttle valve into on-stream valve.

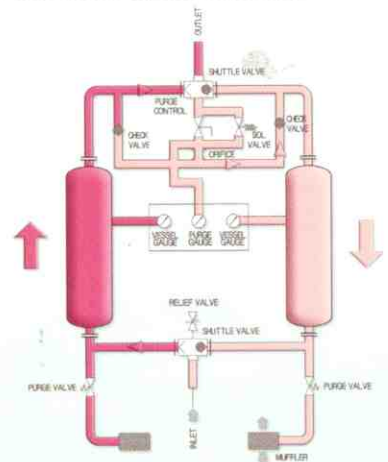
Wet air flows upward through desiccant bed becomes dry air. Dry air at -40°C PDP(standard) or -73°C PDP(optional) exists through upper shuttle valve and splits into process air and low flow purge air.

Purge air flows into top of regenerating vessel and dry purge air flows downward through vessel removing moisture from saturated desiccant bed.

Wet purge air exists through lower purge valve into exhaust.

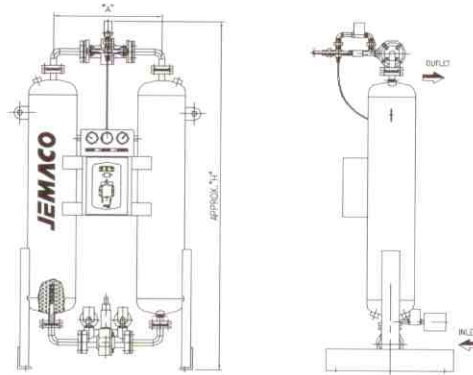
Optional

- | | |
|-----------------------------|----------------------------|
| ● Dew Point Monitor | ● Moisture Indicator |
| ● Switch Failure Signal | ● Pneumatic Control System |
| ● High Humidity Signal | ● Digital Display |
| ● Dew Point Demand Control | ● Audible Alarm with aux. |
| ● -73°C PDP | |



PSK Series Flow Diagram

Specifications



PS900K~PS9100K

Model	Flow Capacity (Nm ³ /min)	Dimension(mm)			Inlet/Outlet Connections		Weight (kg)	
		H	W	D	PT	FLG		
PS56K	1.62	1300	658	400	1"		95	
PS100K	2.89	1530	764	400	1"		125	
PS160K	4.63	1600	918	500	1"		175	
PS200K	5.79	1902	915	500	1-1/2"		225	
PS275K	7.96	1947	1015	800	1-1/2"		326	
PS350K	10.13	2580	1099	1016	2"		517	
PS475K	13.74	2471	1174	1016	2"		761	
PS600K	17.36	2585	1227	1100	2"		906	
PS900K	26.04	3200	1785	1100		3"	1232	
PS1000K	28.93	3194	1822	1194		3"	1360	
PS1200K	34.72	3130	1862	1194		3"	1586	
PS1450K	41.95	3248	2051	1194		3"	1830	
PS1710K	49.47	3280	2087	1194		3"	1910	
PS2010K	58.10	3297	2158	1524		4"	1970	
PS2250K	65.03	3311	2195	1524		4"	2230	
PS2600K	75.14	3372	2232	1524		4"	2430	
PS3250K	93.93	3442	2332	1524		4"	3690	
PS4430K	128.16	3495	3240	1830		6"	3890	
PS5820K	168.37	Consult Factory						
PS7500K	212.33							
PS9100K	257.62							

- * Rating condition are 38°C inlet temperature, 6.9 barg inlet pressure, 100% relative humidity, 38°C ambient temperature.
- * Standard voltage is 220V/1PH/50-60Hz. Consult factory for larger models than PS3250K
- * The following information is required with all PSK Series orders: Inlet flow, Inlet air temperature, Inlet pressure, required pressure dew point.
- * To determine inlet capacity for -73°C pressure dew point, multiply standard dryer capacity by 0.8.

Correction Factors

Operating Pressure	psig	60	70	80	90	100	110	120	130	140	150	175	200	225	250
	barg	4.1	4.8	5.5	6.2	6.9	7.6	8.3	9.0	9.7	10.3	12.1	13.8	15.5	17.0
Multiplier		0.65	0.74	0.83	0.91	1.00	1.04	1.08	1.12	1.16	1.20	1.29	1.37	1.45	1.52