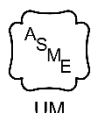


Pneuzorb - The modular heatless air dryers

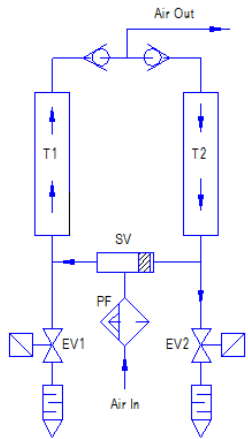


- Moisture Indicator to ascertain outlet air quality
- Purge Economizer offers Potential savings
- Oil Check apparatus for air quality validation
- Inbuilt with DDS – Dew point Dependent switching

New | Dimensions
Solutions



Working principle:



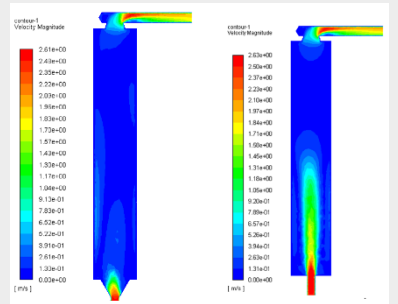
Pneuorb comprises of top and bottom valve blocks and extruded aluminium twin chambers filled with desiccant, which dries the compressed air as it passes through. One chamber is drying, while the other chamber is regenerating using the Pressure swing Adsorption Principle. The changeover is automatic and controlled by microprocessor-based controller.

A small amount of the dried compressed air is used to regenerate the saturated desiccant bed by expanding the dry air from line pressure to atmospheric pressure, removing moisture adsorbed by the desiccant and therefore regenerating the dryer.

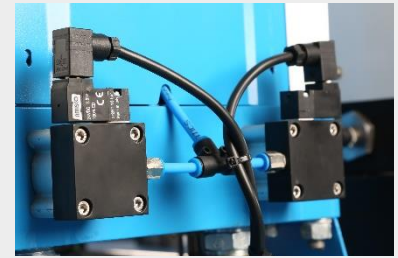
A particulate cum coalescing filter is installed before the dryer. After filter cartridges are fitted integrally inside the towers with adequate free board space. According to air quality requirement suitable micro filter may be installed after the dryer.



Pleated Borosilicate depth filter media at Pre-filters removes Bulk moisture and Oil completely and enhance life of desiccant.



Every parameter affecting the reliability is carefully analyzed and culminated using simulation techniques.



Filtered dry air for actuation of valves ensures longevity of valves operation.

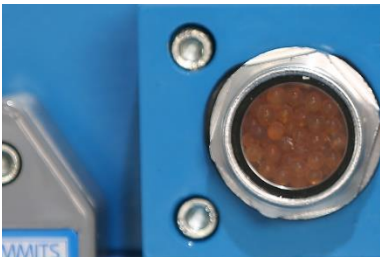
Stainless steel Conical diffusers ensure uniform distribution of compressed air to desiccant bed and supports effective removal of moisture at every milli-meter travel of compressed air during drying process.



Extended MTBM (Mean time between maintenance) due to Honed cylinder for piston movement & Double spring for piston retraction



Inbuilt Moisture indicator helps to ascertain outlet air quality instantly in terms of moisture content.



Oil check apparatus (Optional) helps to measure the oil content in the outlet air down to 0.1 to 0.2mg/m3



Pneuorb – Flowrates and Dimension data:

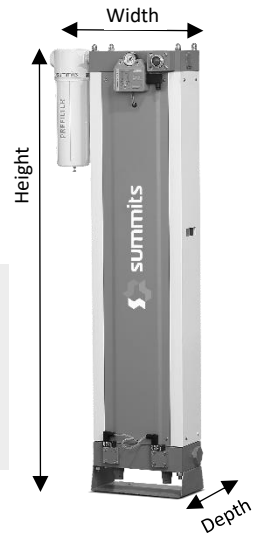
Base model	Model Variance		Capacity		In/Out BSPP(F)	Overall dimension, mm			Weight, kg
	M	L	cfm	m ³ /h		W	D	H	
SP 001	✓	✓	10	17.5	1/2" / 3/8"	191	155	615	9.5
SP 002	✓	✓	20	35.0	1/2"	210	210	875	16.0
SP 004	✓	✓	40	70.0	3/4"	275	225	950	25.0
SP 006	✓	✓	60	102.0	3/4"	275	245	1305	31.5
SP 008	✓	✓	80	130.0	1"	330	245	1125	45.5
SP 010	✓	✓	100	175.0	1"	330	245	1405	54.5
SP 012	✓	✓	125	175.0	1"	330	245	1740	60.0

Note: Rating as per ISO 7183-2007, Option B. For ordering add suffix of Pressure and Dew point; Refer Nomenclature.

Dew point variants:	Pressure variants:
M: -20°C at 7 bar g	C: 12 bar g
L: -40°C at 7 bar g	D: 16 bar g

Nomenclature:
 SP 004 CM →
 SP: Series name;
 004 x 10 = 40 cfm;
 C: 12 bar g;
 M: -20°C at 7 bar g

Common technical data:
 Pressure : 7 to 12 bar g
 Inlet Temp. : 45°C
 Ambient temp. : 40°C
 Air humidity : 100% at 45°C
 Installation : Indoor
 Power supply : 230VAC 50Hz



Manufactured and marketed by
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