

27⁺
YEARS
OF
EXCELLENCE



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



ISO 13485:2016
MEDICAL DEVICE QUALITY
MANAGEMENT SYSTEM
CERTIFICATION No. 20200701



ACCREDITED
Management System
Certification
MSCB-119



ISO 9001: 2015 ISO 14001:2015 ISO 45001:2018
Cert. No.: 785966-754410-770689

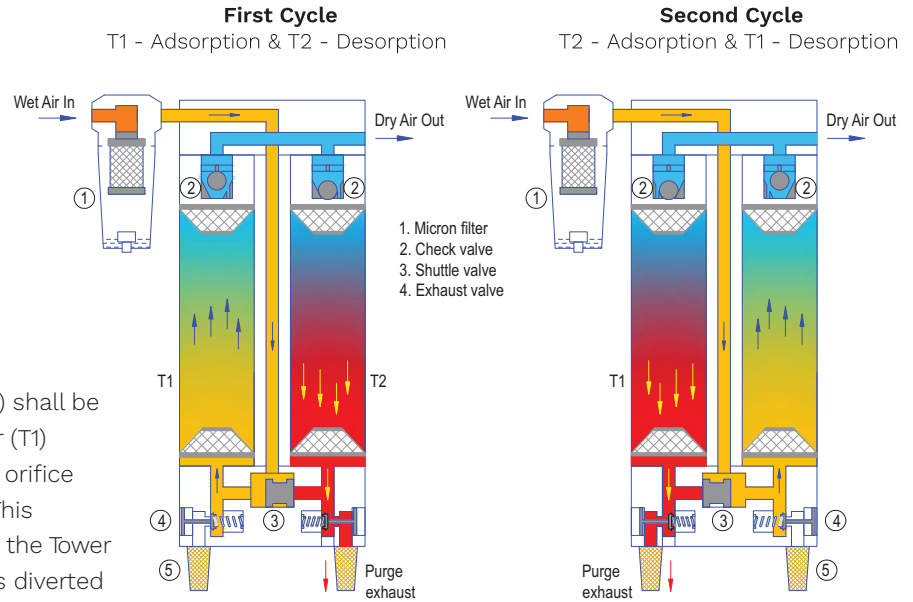


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Working principle:

Micron filter (1) removes bulk moisture and liquid oil from the Wet compressed air. Shuttle valve (3) diverts this pre-treated air to bottom of the Tower (T1). While compressed air passes through the Tower (T1), Premium grade desiccant filled in the tower adsorbs moisture and dries the air. Dry air leaves the Tower (T1) through Check valve (2). Thus Dry, filtered compressed air is available to the application.

While wet air is being dried in Tower (T1), Tower (T2) shall be regenerated. Portion of dry air coming out of Tower (T1) expands to atmospheric pressure through a small orifice (Inbuilt Check valve) and becomes subsaturated. This subsaturated dry air purges out all moisture from the Tower (T2) makes it ready for the second cycle. Air flow is diverted to the Tower (T2) by valves and a controller for second cycle. Second cycle is just a replica of the first cycle with towers interchanged and thus the process continues.



Premium at every stage



Uniform Distribution

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 the drying process.

Ultra-Filtration

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



Longer MTBM

Honed cylinder for piston movement; Double spring for piston retraction; U cup seal for Proportional sealing; PTFE guide ring prevents metallic contact and absorbs traverse force. All the above extend MTBM (Mean time between maintenance).

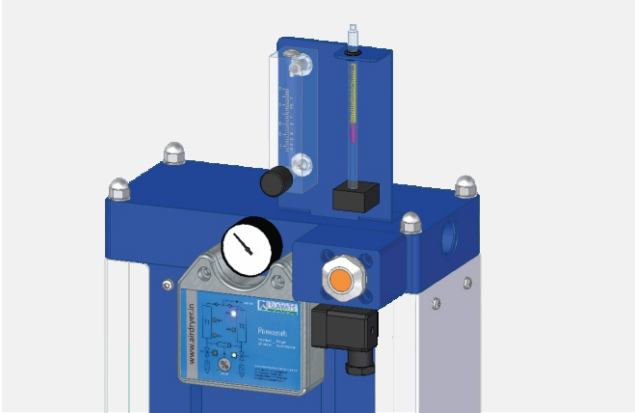
Moisture Indicator

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

Add-On Savings

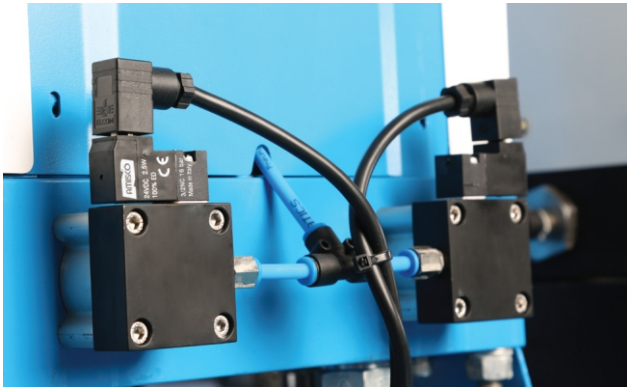
All Pneuzorb series air dryers are inbuilt with Purge economizer facility which helps us to save considerable energy during varying input load.





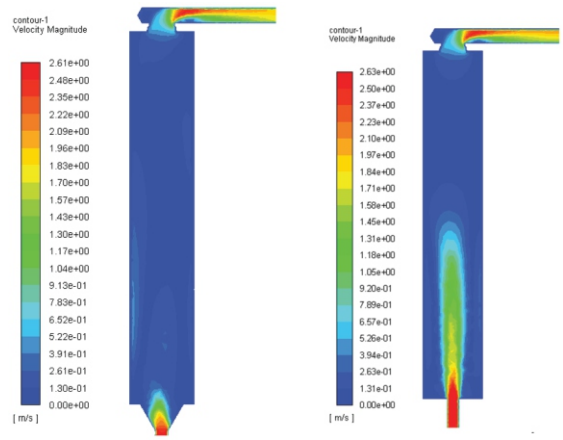
Oil check apparatus

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



Extended Life

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



Engineered the best

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



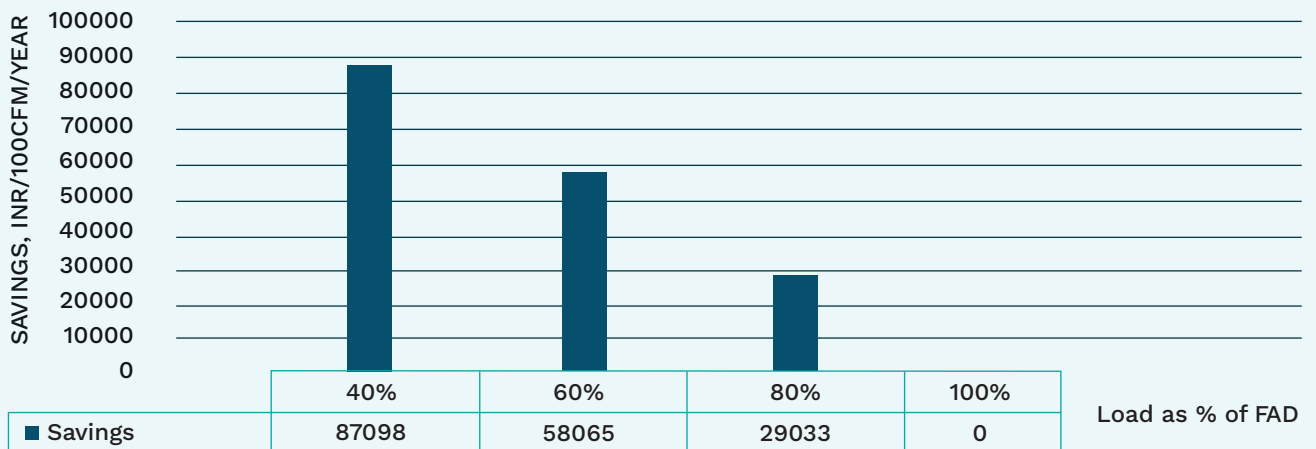
Superior grade desiccant

Hygrosorb-35:

Superior grade desiccant offers uniform particle size distribution to ensure consistent performance and efficient air flow through the packed bed with minimal pressure drop.

High crushing strength and very low attrition loss extend the life of desiccant.

Savings by Purge economizer

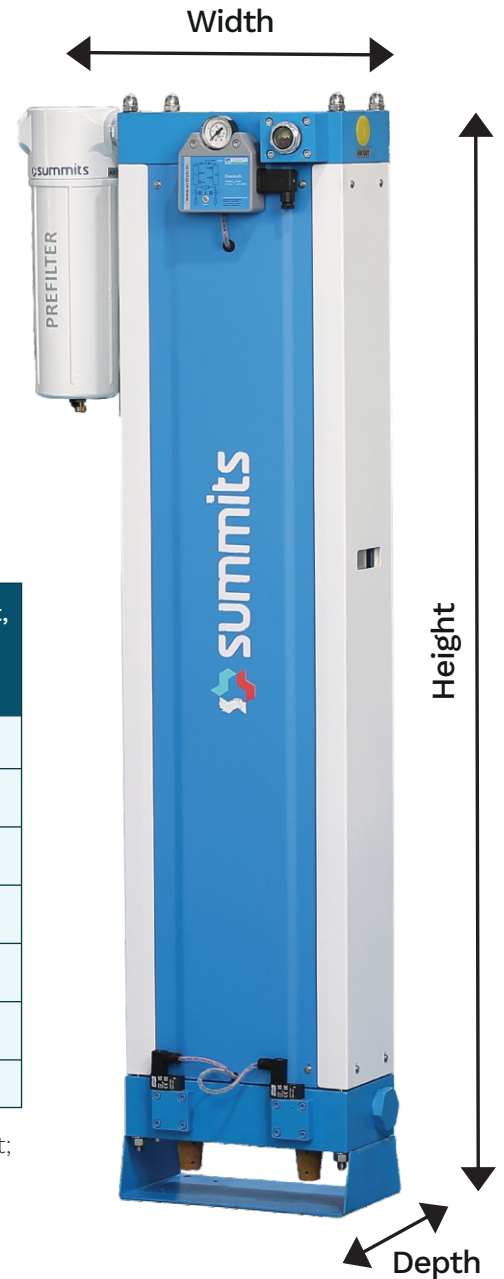


Technical data:	Nomenclature:	Pressure variants:
Pressure : 7 to 12 bar g	SP 004 CM →	C: 12 bar g
Inlet Temp. : 38°C	SP: Series name;	D: 16 bar g
Air humidity : 100%	004 x 10 = 40 cfm;	
Installation : Indoor	C: 12 bar g;	Dew point variants:
Power supply : 230VAC 50Hz	M: -20°C at 7 bar g	M: -20°C at 7 bar g
		L: -40°C at 7 bar g

Pneuzorb – 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	225	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	212.4	1"	330	245	1740	60.0

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



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