

Heatless Air Dryer

Low pressure drop
No pressure spikes

Energy management controller to minimize purge loss
Large desiccant beds for consistent dew point
Outlet air quality according to ISO 8573 - 1, 7.2, Table 3, Class 3 & 2

- Capacity : 10 to 10,000 cfm
- Inlet Air Temp : 5 to 45°C
- Working Pressure : 3 to 15 bar g
- Pressure Dew Point : -20 to -40°C



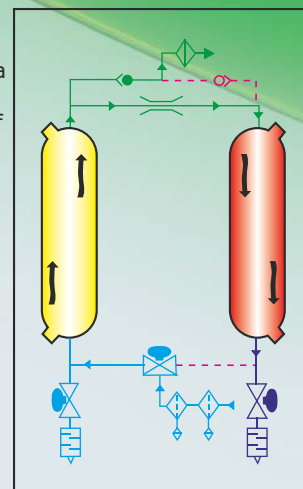
Series SA Adsorption Dryers

Need of Compressed Air Dryer

The compressed air leaving a compressor contains considerable quantities of water vapour. If the untreated air is supplied into the distribution lines, the moisture would condense to liquid water as it gets cooled. Condensed water is a major cause of downtime in compressed air systems. Air quality which was good enough for the old hand controlled valves or wide tolerance air tools is just not dry enough when used in today's sophisticated air systems. Water causes rust, pitting, blockages and freeze ups, with resultant component failure and product rejection. The only way to prevent condensation of water in air lines is to lower the dew point of the air in the system. It is less expensive to own and operate an air dryer than it is to live with the problems it can prevent. Drying compressed air doesn't cost . . . it saves.

Operation

Wet compressed air enters the drying tower from pre & oil removing filters, at the bottom and is directed by a non-lubricated switching valve. The wet air encounters dry desiccant and moisture is transferred from the air to the desiccant. The direction of air flow during drying is upflow; design of the towers prevents fluidization of the desiccant. At the top of the dryer, the dry processed air is directed to the after filter of the dryer through check valves. Approximately ten percent of the dry air is directed into the regenerating tower where it is depressurized to atmospheric pressure and is used to regenerate the desiccant. After removing the moisture from the desiccant, the purge air exits the dryers through a muffler and is blown out to atmosphere. After a preset time based on electronic controller, the dryer shifts towers. At tower shift, the regenerating tower is gradually repressurized, the switching valve sequentially shift and the off-stream tower is depressurized. The switching and exhaust valves are controlled by solenoid valves.



Applications

- Automobile
- Breweries & Distilleries
- Cement
- CNC Machine shop
- Co-generation Plants
- Chemical
- Food Processing
- Foundry
- General Engineering
- Hospital
- Instrumentation
- Packaging
- Paper
- Painting
- Pharmaceutical
- Power Plants
- Printing
- Rice mill
- Sugar
- Textiles
- Textile processing
- Tool room
- And more

Technical Data

Model	SA 004 DM	SA 006 DM	SA 008 DM	SA 010 DM	SA 012 DM	SA 015 DM	SA 020 DM	SA 025 DM	SA 030 DM	SA 035 DM	SA 040 DM	SA 050 DM	SA 060 DM	SA 075 DM	SA 100 DM	SA 125 DM	SA 150 DM	SA 200 DM	
Capacity	40	60	80	100	125	150	200	250	300	350	400	500	600	750	100	1250	1500	2000	
Pressure	7 to 15 bar g																		
Inlet Temperature	Upto 45 °C (Upto 60 °C optional)																		
Dew point Temperature	-40 o C Atmospheric (-70 o C - Optional)																		
End Connection	1/2" bspf	3/4" bspf	1" bspf	1" bspf	1" bspf	1 1/2" bspf	1 1/2" bspf	2" bspf	2" bspf	2" bspf	2" bspf	2 1/2" NB	3" NB	3" NB	4" NB	4" NB	4" NB	6" NB	
Over All Dimensions in mm	W	650	650	730	730	730	900	900	1000	1000	1000	1100	1150	1150	1400	1400	1650	2050	
	D	550	550	580	580	580	680	730	730	845	845	900	950	950	1050	1200	1200	1300	1500
	H	1350	1700	1880	1550	1780	2080	1900	2175	2060	2250	2000	2265	2575	2260	2145	2400	2285	2635
Optional Accessories	Programmed Logic Controller with Display window, Differential Pressure Indicator, Coalescing Filter up 0.01 µm																		

Series MHP & UHP

Summits also offers series MHP & UHP adsorption dryers for working pressure 250 and 400 bar respectively which is designed to international quality standards and deliver dry air to lowest dew point -70C. Contact factory for specifications.

Other Product Ranges



The data in this brochure are not binding, due to continuous product improvement, SUMMITS reserves the right to make changes without prior notice. For further information, contact factory

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