ULTRAFILTER
THE FILTRATION MANUFACTURER

Kronsbein ultrafilter ®

ultrafilter VARIOBLO®
Heat Regenerated Adsorption Dryer

Why drying compressed air?

• Compressed air is used in almost all areas of industrial manufacturing as a source of energy or processing. Compressed air needs to be dry, oilfree and clean in order to prevent costly production downtimes and losses in the production quality. The atmospheric air drawn in contains harmful substances, dirt particles and moisture in the form of water vapour, which condenses out in compressed air pipes and can lead to considerable damages (corrosion, freezing etc.).

• Beneath compressed air fridge dryer, adsorption dryer represent the most common drying method for compressed air. Maximum efficiency and the highest operational safety, coupled with low operational costs are attributes that convey the advantages of the adsorption dryer. State of the art technology and selected materials are the basis for high operational safety.

• Adsorption dryers are made of two - in some applications more - compressed air vessels filled with desiccant. Whilst one vessel is drying the incoming compressed air, the other vessel is regenerated.

• Within the range of adsorption dryers we differ between heatless regenerated dyers and heat regenerated dryers. While heatless dryers are regenerated by a partial flow of more than 15 % of the dried compressed air, heat regenerated adsorption dryers generally manages the regeneration process without compressed air consumption.

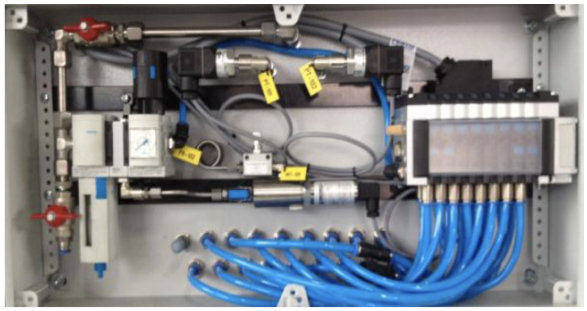
• Therefore heat regenerated adsorption dryers are much more economical as their energy requirements for regeneration is much lower then those of heatless regenerated adsorption dryers despite using heater and blower for regeneration.

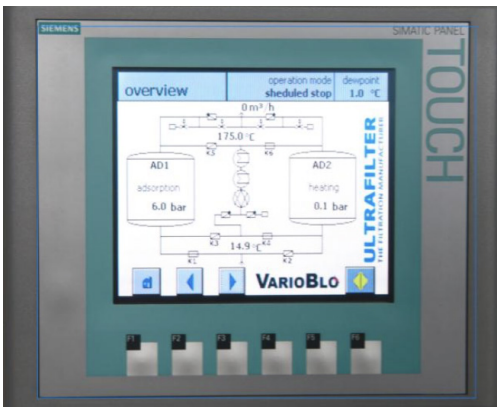
Quality products Made in Germany

- In order to produce heat regenerated dryers a considerable experience is required. ultrafilter GmbH looks back on a long lasting experience in developing and producing heat regenerated adsorption dryers for different applications

- Only the best components that meet the high quality standards of production are used. The Quality Assurance system according to ISO 9001 means that all appliances receive the “Quality Product” certification.

- All ultrafilter purification components convince by their service- and maintenance-friendly construction. ultrafilter adsorption dryer ensure highest operational safety and reliability and guarantee lowest possible total cost of ownership.





ultrafilter VARIOBLO® Standards:

- high energy efficiency
- zero purge, with purge option (Two in One)
- high reserve capacity
- reliability
- safe operation, easy to maintain
- touch panel for service-friendly operation
- pneumatic box for sensitive components
- high corrosion resistance due to HT galv. pipework
- easy to ship due to compact dimensions
- modular design, easy to adapt to LOOPversion
- 50 Hz or 60 Hz power supply
- switch over control

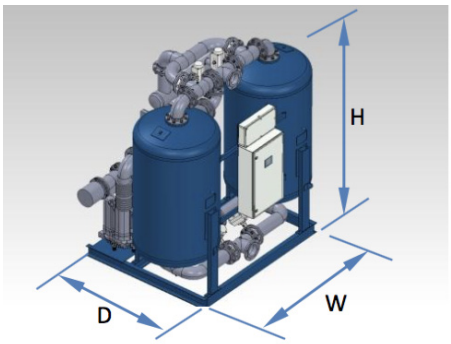
Technical Data:

Size	Volume Flow	Connection	Dimensions			Weight	Installed	Installed	Option:
			Width	Depth	Height		Power	Power	LOOP
VARIOBLO	V_{nom}	DIN2633	W	D	H		Blower	Heater	Cooling Water
	m³/h	DN	mm	mm	mm	kg	kW	kW	m³/h
0400	400	50	1.750	1.030	2.260	1.200	1,5	6,0	0,5
0700	700	50	1.800	1.150	2.310	1.400	2,0	9,0	1,0
1000	1000	80	1.920	1.280	2.390	1.500	2,0	12,0	1,5
1400	1400	80	1.920	1.320	2.420	1.900	3,0	16,5	2,0
1700	1700	80	2.120	1.450	2.480	2.300	3,0	19,5	2,5
2000	2000	80	2.160	1.470	2.550	2.800	5,5	24,0	2,5
2500	2500	100	2.260	1.600	2.630	3.400	5,5	30,0	3,0
3000	3000	100	2.320	1.540	2.630	3.600	5,5	36,0	3,5
3500	3500	100	2.750	1.910	2.790	4.000	9,5	45,0	4,0
4000	4000	150	2.800	1.790	2.890	4.800	9,5	45,0	4,5
5000	5000	150	2.910	2.010	2.870	5.600	9,5	60,0	5,5
6000	6000	150	3.400	2.380	2.910	6.300	15,0	70,5	6,5
7000	7000	150	3.500	2.300	2.990	7.200	15,0	81,0	8.0
8200	8200	150	3.600	2.500	3.100	8.000	23,0	94,5	9,0
9500	9500	200	3.700	2.600	3.300	9.400	23,0	108,0	10,0

Volume Flow V_{nom} in m³/h related to 20 °C and 1 bar abs suction condition of compressor, 7 bar g operating pressure and 35 °C inlet temperature.

ultrafilter VARIOBLO® options:

- dew point control
- skid mounted filters
- bypasscomplete with valves
- start up device
- heat insulation
- proximity switchesfor valve posi tion control
- flow meter
- special control systemsS7 300 instead of S7 200 n data logger
- pressure relief valves
- shrinking foil packaging



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