



POST TREATMENT EQUIPMENT FOR AIR COMPRESSOR

WE TAKE CARE OF YOUR COMPRESSED AIR



Verdes(Guangzhou)Technology Co., Ltd
ADD: 75 Yonghe Economic Development Zone, Guangzhou, Guangdong
Wechat/Whatsapp/Tel: 15360875152
WEB: WWW.VDCOMPRESOR.COM



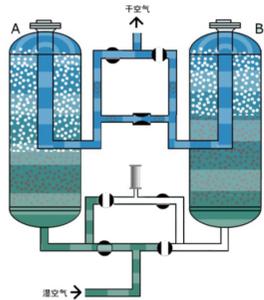
DISCLAIMER: This parameter list is for referencne only.We may adjust the related parameter.If there is any change,we will not inform you otherwise.If you do not know,plase call us.

VAD Series Adsorption Air Dryer For Compressed Air



Working principle of heatless adsorption dryer

The heat free regeneration adsorption dryer utilizes gas and solid particles, especially when in contact with certain porous particles water molecules in compressed air become enriched characteristics in particles. The amount of water adsorbed on the adsorbent at a certain temperature increasing with the increase of water vapor partial pressure. At a certain partial pressure of water vapor, the adsorption capacity of water decreases with increasing temperature. Water content is easy under low temperature and high pressure being adsorbed, Water is easily desorbed at high or low temperatures. The vacuum dryer is beneficial using this characteristic of adsorbent to achieve the transition between adsorption regeneration adsorption to achieve continuous drying of compressed air through conversion.



High quality components

- 1 Adopting imported single-chip microcontrollers to form a multi functional electronic control core, with multiple operation modes available
- 2 High quality muffler ensures low noise
- 3 Reliable pneumatic control components with a design lifespan of up to 2 million times
- 4 Highly efficient adsorbent with high strength and wear resistance, with long service life

Pressure Correction Factor (CFP)

intake pressure	Mpa	0.6	0.7	0.8	0.9	1.0
	CFP	0.88	1.0	1.13	1.25	1.38

Temperature correction coefficient (CFT)

intake temperature	°C	20	25	30	35	40	45
	CFT	1.2	1.1	1.0	1.0	1.0	0.75

Dew point correction factor (CFD)

point Dew requirement °C	PDP	-20	-40
	CFD	1.1	1.0

- 1 select the minimum inlet corrected pressure coefficient (CFP) for the dryer (when determining the minimum working pressure of the dryer, the pressure loss of the front-end equipment in the system must be considered)
 - 2 Select the maximum inlet temperature correction factor (CFT) for the dryer.
 - 3 Select the dew point correction factor (CFD).
- $CFP * CFT * CFD$ The minimum processing air volume of the dryer = intake airflow rate / $CFP * CFT * CFD$

Select the model in the table based on the minimum flow rate that the dryer should meet.

- Stainless steel check valve:** Stainless steel material corrosion resistant
- Controller:** Intelligent control, independent research and development, high precision
- Standard low power solenoid valve:** High precision quick action response
- Imported butterfly valve:** Quick action response standard path
- Heater:** High strength, high pressure resistance, Electric shock resistance, Good heating and insulation
- Adsorption tank:** With pressure vessel certificate, safety performance is guaranteed
- Imported air source three:** Pressure adjustment, high precision, good sealing
- National standard high purity alumina/molecular sieve:** The international label is not easy to powder and has a long service life
- Sound muffler:** Multilayer fiber, soundproof material

(The picture is for reference only, the specific object shall prevail)

Professional design for compressed air drying

- The perfect dual adsorption tower structure design, high-performance and reliable valve components, ensure reliable operation and long service life.
- Efficient molecular sieve combination, with a larger adsorption surface area and stronger adsorption effect.
- Low noise, low vibration.
- Microcomputer control and user-friendly operation interface, achieving unmanned operation

VAD Series Heatless Adsorption Air Dryer Parameter

Type	Air Capacity		Voltage	Power	Connection	Pressure Dew Point °C	Dimension mm	Weight
	m ³ /min	cfm						
VAD-1	1.5	53	220	<0.1	G1	-20 -- -40	880 * 350 * 1100	80
VAD-2	2.5	88	220	<0.1	G1	-20 -- -40	800 * 350 * 1290	90
VAD-3	3.8	134	220	<0.1	G1	-20 -- -40	820 * 380 * 1580	135
VAD-6	6.8	240	220	<0.1	G1-1/2	-20 -- -40	940 * 450 * 1810	255
VAD-11	11	388	220	<0.1	G2	-20 -- -40	1040 * 550 * 1920	400
VAD-14	14	494	220	<0.1	G2	-20 -- -40	1150 * 600 * 1970	460
VAD-17	17	600	220	<0.1	DN65	-20 -- -40	1200 * 700 * 2030	515
VAD-22	22	777	220	<0.1	DN65	-20 -- -40	1300 * 700 * 2100	645
VAD-27	27	953	220	<0.1	DN80	-20 -- -40	1300 * 700 * 2300	720
VAD-32	32	1130	220	<0.1	DN80	-20 -- -40	1400 * 800 * 2430	905
VAD-45	45	1589	220	<0.1	DN100	-20 -- -40	1500 * 860 * 2600	1285
VAD-56	56	1978	220	<0.1	DN100	-20 -- -40	1600 * 900 * 2700	1600
VAD-66	66	2331	220	<0.1	DN125	-20 -- -40	1700 * 1000 * 2700	2100
VAD-85	85	3002	220	<0.1	DN125	-20 -- -40	1900 * 1200 * 2800	2600
VAD-110	110	3885	220	<0.1	DN125	-20 -- -40S	1900 * 1200 * 3100	3400

*The company keeps improving the products and reserves the right to change the design. Parameters are subject to change without notice. Models with dew point <-60°C can be customized.