



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



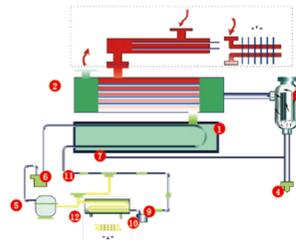
DISCLAIMER: This parameter list is for referencne only.We may adjust the related parameter.If there is any change,we will not inform you otherwise.If you do not know,plase call us.

VRD Series Refrigerated Air Dryer For Compressed Air



Working Principle Of Refrigerated Dyer

The amount of water vapor in compressed air is determined by the temperature of the compressed air. Lowering the temperature while maintaining the same pressure can reduce the content of water vapor decreases, and excess water vapor condenses into a liquid. Freeze drying air dryer uses a refrigeration type device to cool compressed air to a certain dew point temperature, precipitation of water, discharge of water, thus drying compressed air.



1. Evaporator
2. Heat exchanger
3. Cyclone separator
4. Automatic drain
5. Compressor
6. air-liquid separator
7. Expansion valve
8. Air pre-cooler
9. Windows
10. Drying filter
11. Thermal bypass valve
12. Condenser

Working pressure and temperature correction coefficient (V1)

Working pressure Mpa	Inlet temperature °C	V1					
		45	50	55	60	70	80
0.4	1.06	0.87	0.77	0.71	0.67	0.61	
0.5	1.12	0.92	0.82	0.75	0.71	0.64	
0.6	1.17	0.96	0.85	0.79	0.74	0.67	
0.7	1.22	1.00	0.89	0.82	0.77	0.70	
0.8	1.24	1.02	0.90	0.84	0.79	0.71	
1.0	1.29	1.06	0.94	0.87	0.82	0.74	

Environmental temperature correction coefficient (V2)

Environmental temperature °C/°F	30	32	35	40
V2	1.03	1.00	0.96	0.90

When selecting a dryer, it is necessary to consider the pressure correction coefficient and temperature correction coefficient. The standard operating conditions for refrigerated dryers :

1. Inlet pressure: 0.70Mpa
2. Inlet temperature: 50°C
3. Environmental temperature: 32°C

When selecting the model, it is necessary to consider the coefficients corresponding to the actual working conditions for correction. If you need detailed technical support, please contact our company directly



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

VRD Series Refrigerated Air Dryer Parameter Table

Type	Air Capacity		Working Pressure	Power	Max. Inlet Temperature	Inlet/Outlet	Pressure Dew Point	Dimension (mm)	Weight
	m ³ /min	cfm							
VRD010	1.2	42.4	7-16	0.54/220	≤ 65	G3/4	2-8	617 * 440 * 825	37
VRD015	1.8	63.6	7-16	0.6/220	≤ 65	G1	2-8	617 * 440 * 830	43
VRD020	2.6	91.8	7-16	0.86/220	≤ 65	G1	2-8	697 * 490 * 790	50
VRD038	4.0	141.3	7-16	0.96/220	≤ 65	G1 1/2	2-8	752 * 500 * 915	57.5
VRD065	7.0	247.2	7-16	1.97/220	≤ 65	G1 1/2	2-8	767 * 550 * 985	80.5
VRD085	9.0	317.8	7-16	3.3/220	≤ 65	G2	2-8	958 * 650 * 1080	124
VRD115	12	423.8	7-16	3.45/380	≤ 65	G2	2-8	1060 * 660 * 1080	126
VRD135	14	494.4	7-16	3.8/380	≤ 65	G2	2-8	1130 * 660 * 1132	141
VRD185	18.5	653.3	7-16	4.99/380	≤ 65	G2 1/2	2-8	1310 * 818 * 1392	240
VRD205	21	741.6	7-16	5.37/380	≤ 65	G2 1/2	2-8	1300 * 870 * 1441	256
VRD250	25	882.9	7-16	6.2/380	≤ 65	G3	2-8	1420 * 920 * 1586	292
VRD350	38	1342.0	7-16	6.56/380	≤ 65	DN100	2-8	1420 * 920 * 1586	332
VRD450	45	1589.2	7-16	7.43/380	≤ 65	DN100	2-8	1420 * 920 * 1586	353ss

Professional design for compressed air dryer

- Heavy load design layout, compact structure, and no foundation installation
- Low pressure loss, more energy-efficient
- The heat exchanger adopts a countercurrent design, with high heat exchange efficiency and small volume;
- The air-liquid separator adopts a multi-stage separation method to ensure the quality of compressed air after drying;
- Easy to understand and operate control panel
- Adopting high-quality refrigeration compressors, reliable performance, energy-saving and efficient;