

Thermokool

Industrial Air Dryer(Desiccant Dehumidifier)



Air dryer or we called desiccant dehumidifier, which is widely used in
Space and Aviation
Pharmaceutical Industry
Electronics Industry
Food Processing Industry
Lab & Chemical field

It working temperature $-10\sim 50^{\circ}\text{C}$, could control the relative humidity lowest below than 30% in high energy efficiency, popular in low temperature & low target humidity application.

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Industrial Air Dryer(Desiccant Dehumidifier)

CLR-200



CLR-400



CLR-600



CLR-750



Model	CLR-200	CLR-400	CLR-600	CLR-750
Dehumidifying capacity(20°C,60%)	0.6kg/h	2.5kg/hr	3kg/hr	3.5kg/hr
Process air flow (m3/h)	200	420	580	750
Inlet size (mm)	Φ100	Φ100	Φ125	Φ200
Reactivation air flow(m3/h)	70	130	200	250
Outlet size (mm)	Φ80	Φ80	Φ80	Φ125
Power(KW)	1.2	2.0	3.8	5.5
Current	6A	10A	20A	12A
Unit dimension	750*400*465mm	900*590*420	685*505*1040	1034*600*671
Weight(kg)	30	45	65	85
Voltage	220V/50HZ	220V/50HZ	220V/50HZ	220V/50HZ

- 1.High quality desiccant rotor,washable,5 years lifetime, warranty 1 year.
- 2.Equipped with an electric regeneration heating;
- 3.Strong and robust construction & nice design;
- 4.Access door design for easier maintenance and troubleshooting;
- 5.Customized filters, G4 efficiency;
- 6.Auto stop protection function for Rotor, delay time protection circuit & fault locater system;
- 7.ABB,OMRON and Schneider electrical accessories;

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Industrial Air Dryer(Desiccant Dehumidifier)

CLR-1000



CLR-1500/2500/3000



Model	CLR-1000	CLR-1500	CLR-2500	CLR-3000
Dehumidifying capacity(20°C,60%)	7.5kg/hr	10kg/hr	15kg/hr	19kg/hr
Process air flow (m3/h)	1100	1550	2550	3000
Inlet size (mm)	Φ200	Φ250	400/488*222	400/488*222
Reactivation air flow(m3/h)	400	580	925	1100
Outlet size (mm)	Φ125	Φ160	Φ200	Φ200
Power(KW)	9	13	22	27
Current	18A	26A	50A	60A
Unit dimension	950*710*1200mm	881*696*1234mm	1295*880*1300mm	1295*880*1300mm
Weight(kg)	160	180	280	320
Voltage	380V/50Hz/3Ph	380V/50Hz/3Ph	380V/50Hz/3Ph	380V/50Hz/3Ph

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Industrial Air Dryer(Desiccant Dehumidifier)

CLR-3000/5000/7500

CLR-9000/18000/27000

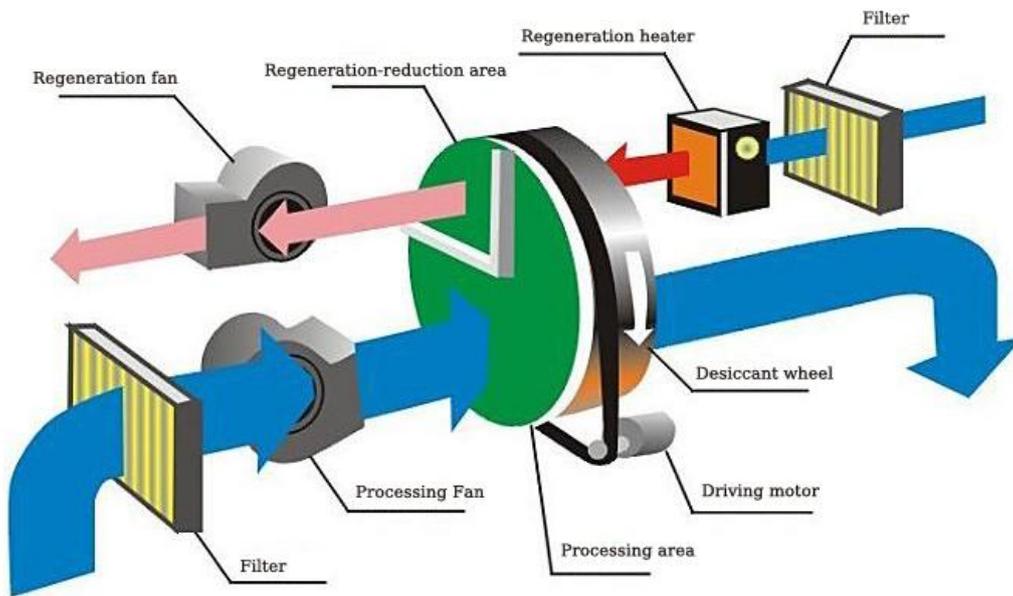


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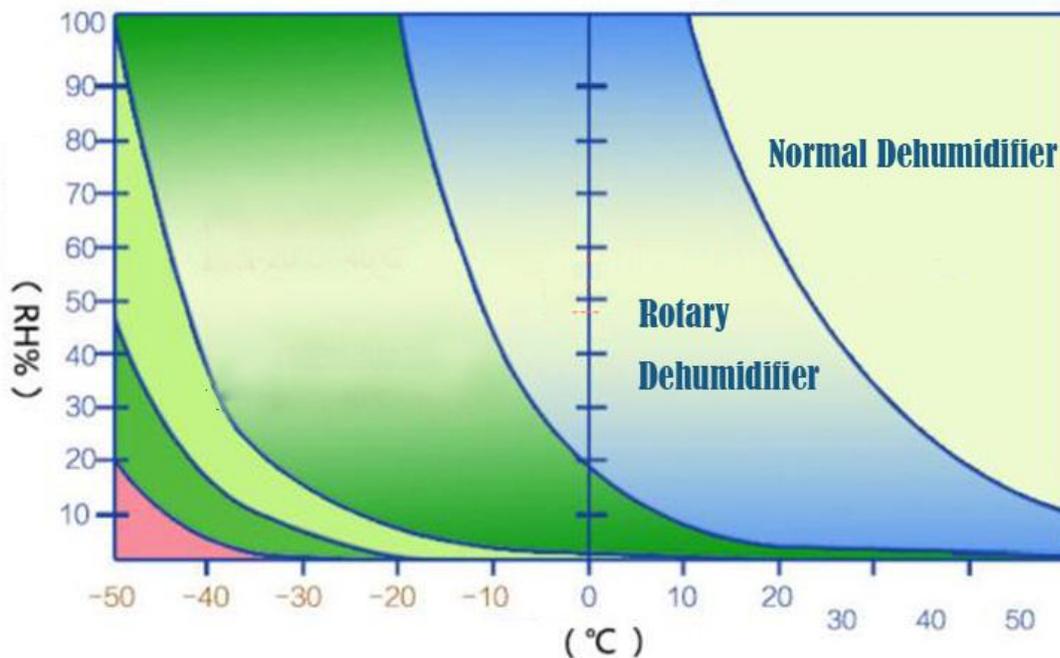
Model	CLR-3000	CLR-5000	CLR-7500	CLR-9000	CLR-18000	CLR-27000	...
Dehumidifying capacity(20°C,60%)	22kg/hr	36kg/hr	54kg/hr	65kg/hr	129kg/hr	194kg/hr	
Desiccant wheel	Φ720*200	Φ950*200	Φ1050*200	Φ1200*200	Φ1780*200	Φ2100*200	
Process air flow (m3/h)	3000	5000	7500	9000	18000	27000	
Reactivation air flow(m3/h)	1000	1700	2500	3000	6000	9000	
Reactivation heating(°C)	120±10	120±10	120±10	120±10	120±10	120±10	
Reactivation heating power(KW/h)	36	50	60	90	180	270	
Processing blower power(KW)	4.5	4	5.5	5.5	15	15	
Reactivation blower power(KW)	1.5	2.2	2.2	2.2	5.5	7.5	
Desiccant Rotor motor power(KW)	0.06	0.06	0.09	0.2	0.2	1	
Max Power(KW)	42	57	68	98	200	294	
Unit Dimension (mm)	1860*1150*1600	2500*1400*2000	2600*1523*2225	3000*1700*2200	6000*2200*2300	6000*2300*2300	
Weight(kg)	500	600	930	1400	2400	2800	
Voltage	380V/50Hz/3Ph						
Applied Temperature	-10°C ~ 50°C						

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Air Dryer/Desiccant Dehumidifier Working Principle



Air Dryer & Refrigerant Dehumidifier Comparison

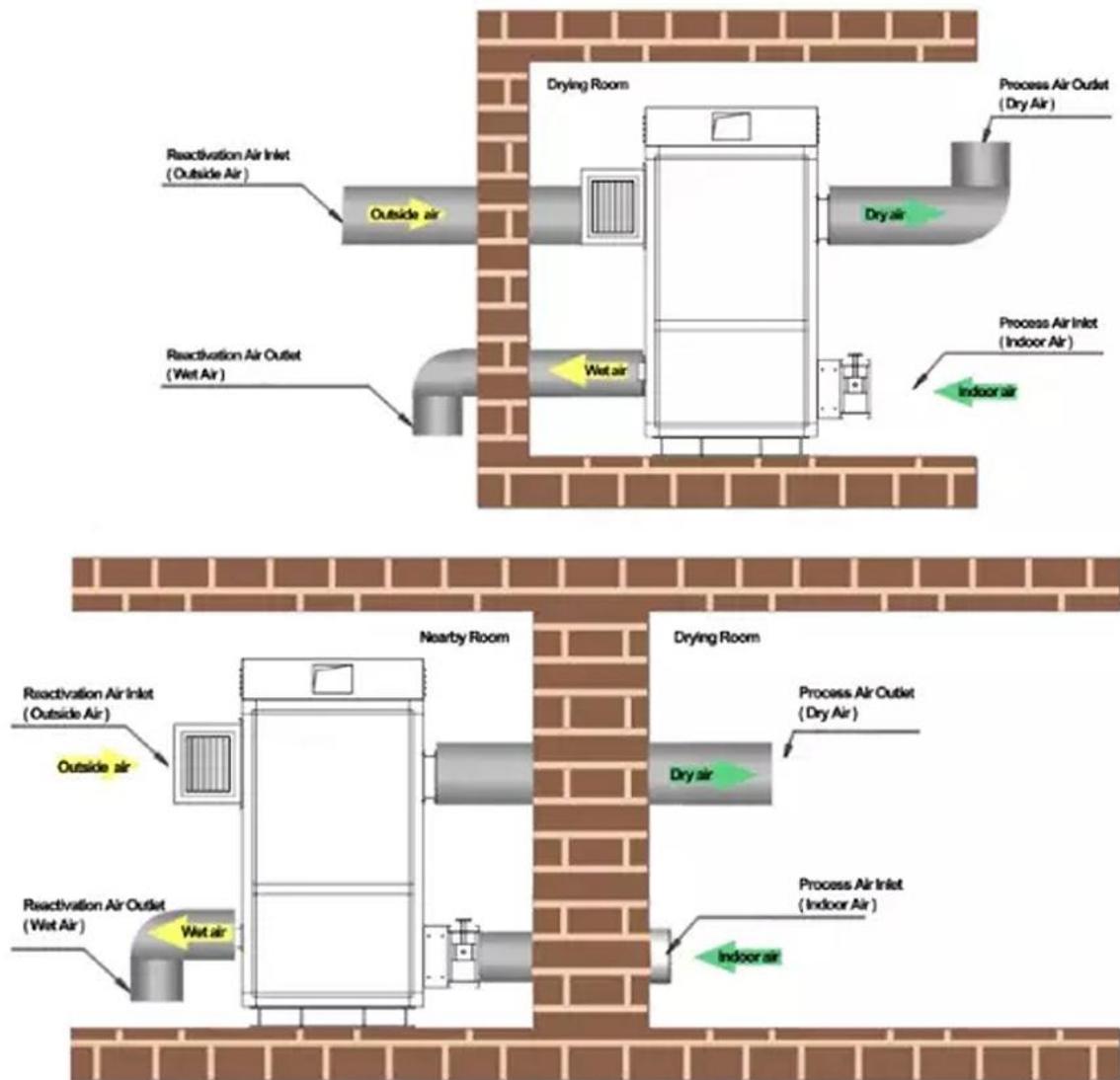


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Installation Guidance of Desiccant Dehumidifiers

1. In the drying room:



Note: There should be a slope at the direction of reactivation air outlet to prevent dew backflow.

Note: Processing Air Outlet blow out the warm dry air, while Reactivation Air Outlet blow out the hot moisture air.