



BryCool™ 500

COMPACT DEHUMIDIFIER
for Cool Dry Air



Product Description and its Unique Advantages

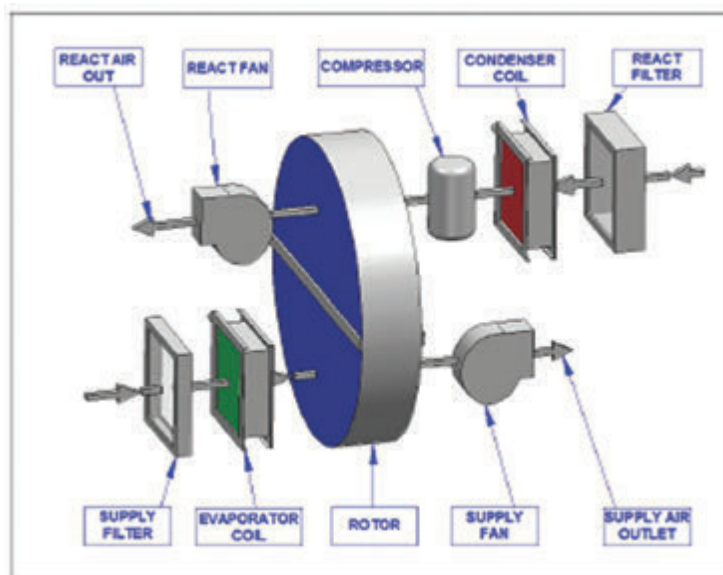
The BryCool™ 500 Compact Dehumidifier is another energy efficient compact dehumidifier from Bry-Air. BryCool™ accomplishes the task of providing cool dry air for any enclosed facility which requires desiccant assisted drying capability in a compact package. The unit uses the heat dissipated in refrigeration cycle for regenerating the desiccant rotor. This leads to substantial savings as no additional heat source is required to regenerate the desiccant rotor. Most of the times, it also helps avoiding installing additional air-conditioning unit in the conditioned space as supply air is typically temperature neutral. BryCool™ operates very cost effectively because all the energy required for the operations of the desiccant dehumidifier cycle is coming from the integrated refrigeration unit which is cooling the inlet air. It is ideal for facilities where human comfort is also required along with dehumidification. BryCool™ incorporates the high performance EcoDry™ rotor and it comes with BryCare™ program which offers a highly cost effective after sales service.

Operating Principle

BryCool™ uses two streams of air separated from each other to accomplish the task of providing cool dry air. The inlet air (Supply) passes through the evaporator coil for cooling and condensation of moisture. It then passes through the desiccant rotor where moisture is further adsorbed by the desiccant rotor. Thus process cool dry air is available for dehumidification. On the reactivation stream side, the heat dissipated by the condenser coil combined with heat dissipated by the refrigeration compressor is used to heat reactivation fresh air. The reactivation fresh air then passes through the desiccant rotor to expel out the moisture adsorbed by the desiccant rotor.

Benefits

- Very energy efficient
- Compact size for installation in small spaces
- Comfortable environment
- No moulds and mildew



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Feature Highlights

High Efficiency and Reliability

- The Dehumidifier is manufactured in an **ISO 9001** and **ISO 14001** compliant work environment.
- It provides significant drying capability in a small package.
- The unit utilizes a refrigerant circuit in conjunction with a heat reactivated desiccant wheel to provide efficient drying capability.
- Uses environmentally friendly refrigerant R-410a.
- Compact size for installations in small spaces.
- CNC fabricated unit(s) with Precoated Steel Construction.
- Rotor media has high performance metal silicates synthesized in situ.
- Rotor incorporates robust internal structure with GI.
- Edge hard face coating on rotor ensures long life and good sealing for media and seals.
- Rotor is non-flammable with organics < 2%.
- Process & Reactivation air flow sector is insulated.
- Unique SWTC flat seal design; minimized air leakage.
- Process and react with centrifugal AC motors for 500 CMH units.

Necessary Control and Safety Features

- High Pressure and Low Pressure Switch in Refrigeration Cycle.
- Electrical interlocking of fan, motors and rotor drive.

Easy to Operate

- Suitable for continuous operation.

Easy to Install

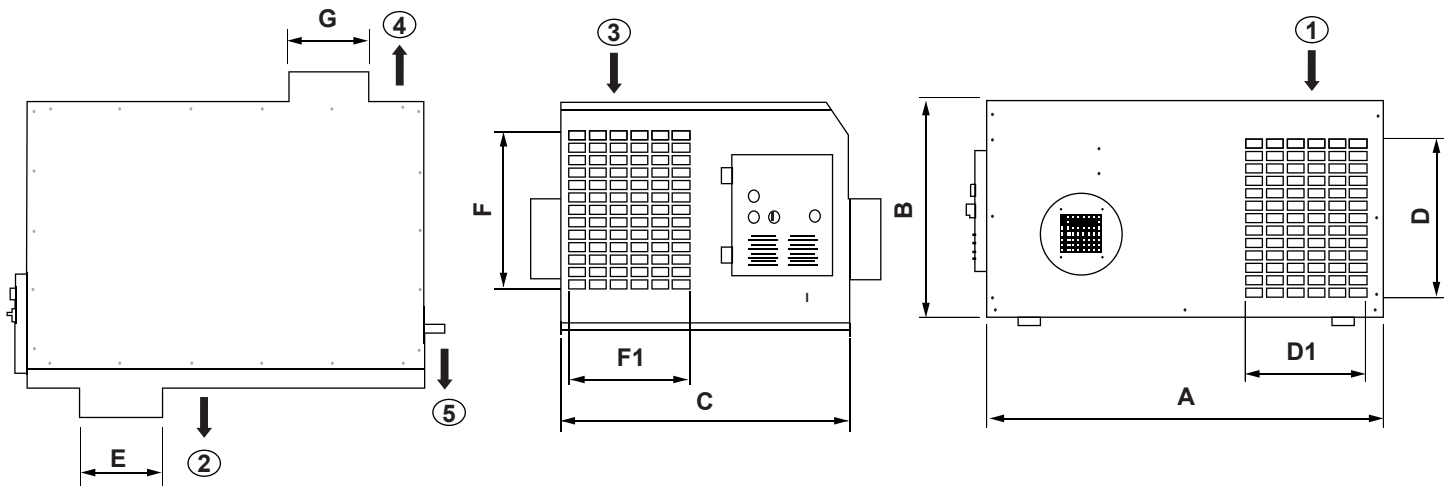
- Several mounting and installation options.
- Small footprint; low volume/weight per CMH.

Easy to Maintain

- Quick and easy to service.
- Rotor is water washable.



Dimensional Data & Duct Connection



- 1- Process Air Inlet
- 2- Process Air Outlet
- 3- Reactivation Air Inlet
- 4- Reactivation Air Outlet
- 5- Water Drain Pipe

MODEL	UNIT DIMENSIONS (mm)			Process Duct Connection (mm)			Reactivation Duct Connection (mm)		
				Inlet		Outlet	Inlet		Outlet
	A	B	C	D	D1	øE	F	F1	øG
BryCool™ 500	955	530	695	380	290	200	380	290	200

Note: All dimensions in mm

Compact Dehumidifier – BryCool™ Specification

MODEL	PROCESS AIR FLOW CMH	PROCESS ESP (Pa.)	PROCESS MOTOR KW	REACT. AIR FLOW CMH	REACT. ESP (Pa.)	REACT. MOTOR KW	COMPRESSOR		POWER* REQD. v/Ø/Hz	APPROX. WEIGHT Kg
							REFRIGERATION CAPACITY KW	INPUT KW		
BryCool™ 500	500	150	0.25	500	150	0.25	2.67	0.9	230/1/50	100

All data subject to change without notice

About Us



Leaders in Dehumidification, worldwide, Bry-Air is a global solution provider for humidity control, moisture removal, product drying, gas phase filtration and plastics auxiliaries. Bry-Air, a Pahwa Group company, is a global solution provider for complete environmental control with a specialization in Humidity Control, Dehumidification, Drying, Storage, Preservation, Gas Phase Filtration, and Plastics Auxiliaries. Supported by state-of-the-art facilities, worldwide operations, and customers in almost every industry, Bry-Air has been synonymous with moisture control, air purification, and dehumidification for nearly 60 years.



At Pahwa group, innovations based on effective and efficient research and development are not only the heart of our business but also a significant growth engine. The group has filed 140 international patent applications for 24 new technologies, out of which 89 has already been granted/allowed. The group has 9 state-of-the-art test facilities.



Leaders in Dehumidification... Worldwide

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Enter Bry-Air... exit moisture