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Bry-Air®
Drying • Conveying • Blending

TECHNICAL SPECIFICATION

Bulletin : BAA:MDS-926.6
Effective : JAN. 10, 2017
Supersedes : BAA:MDS-926.5
Dated : NOV. 07, 2014

MOULD DEHUMIDIFICATION SYSTEMS
MDS Series

All MDS-Series Floor-Mount Cabinet-Style Mould Dehumidifier come standard with :

- CNC Manufactured, with Powder Coated Finish
- Honeycomb design fluted media wheel
- Chilled water cooling coils for pre cooler designed at 7 °C inlet
- Tubular type SS heaters
- Easy cleanable air inlet filter
- Castor wheel mounted cabinet for easy movement
- Centrifugal fan common for process and react air
- Quick openable access panels for service & maintenance
- Indications for operation & alarms
- World wide proved Siemens make electrical switchgears for safety & reliability

After Cooler - Optional

Chilled water cooling coils for after cooler designed at 7 °C inlet

Specifications for MDS Series Dehumidifiers

MODEL	AIR FLOW CMH		HOSE CONNECTION IN MM.	TOTAL Load KW	REACT HEATER KW	PROCESS BLOWER MOTOR KW	BED DRIVE MOTOR KW	REQ.CHILLED WATER FOR PRE COIL @ 7°C INLET		REQ.CHILLED WATER FOR AFTER COIL @ 7°C INLET		DIMENSION IN MM			APPROX. SHIPPING WEIGHT KG
	PROCESS	REACT						GPM	LPM	GPM	LPM	D	W	H	
MDS-500	500	160	150	6	5.25	0.75	0.025	11	42	5.5	21	710	710	2158	400
MDS-1000	1000	320	150	11.6	10.5	1.1	0.04	17.5	66	7.5	28	710	710	2158	450
MDS-1500	1500	480	200	17.3	15.75	1.5	0.04	33	125	9.3	35	980	1031	2750	775
MDS-2000	2000	640	200	22.5	21.0	1.5	0.04	40	151	11	42	980	1031	2750	800
MDS-2500	2500	800	200	28.5	26.25	2.2	0.04	40	151	11	42	1230	1100	2850	825

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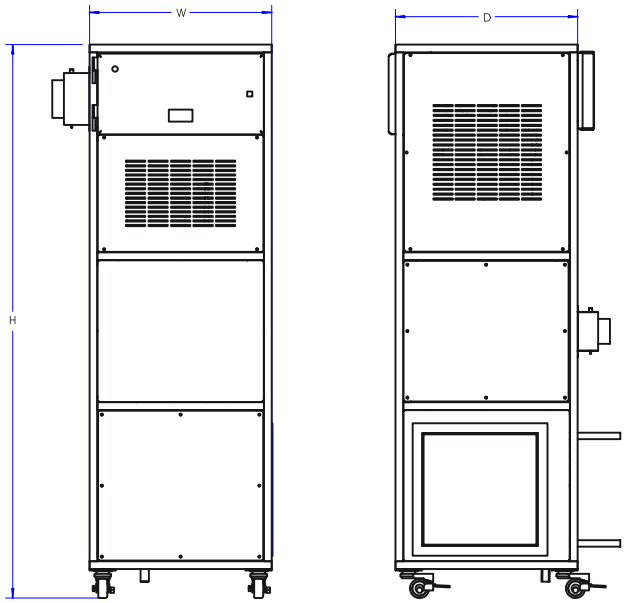
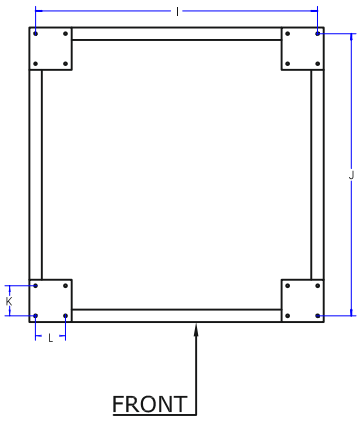
Unit Layout

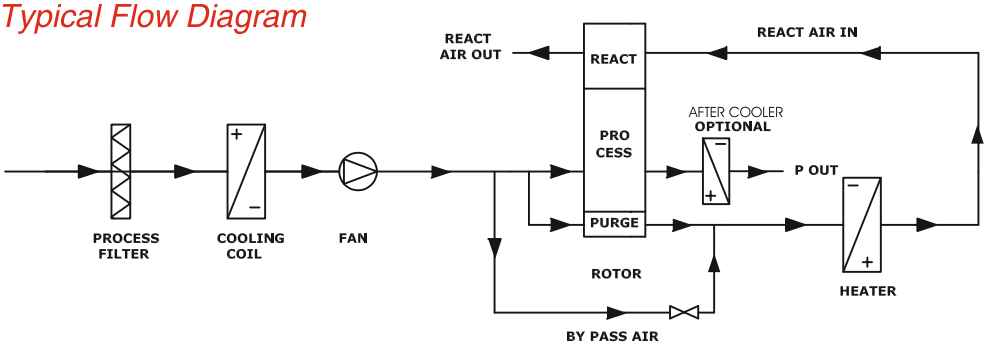




MODEL	I	J	K	L
MDS-500 & 1000	680	680	72.5	72.5
MDS-1500 & 2000	950.5	1001.5	72.5	72.5
MDS-2500	1070.5	1070.5	72.5	72.5

All units are in MM.

Typical Flow Diagram



The heart of Bry-Air's Mould Dehumidification System is the Honey Comb Dessicant Wheel which ensures optimum results year round by simply lowering the dewpoint surrounding the moulds by approximately 5 to 10 degrees lower than the temperature of the chilled water in the mould. By maintaining this consistency at lower dewpoint, mould sweating is eliminated, thus resulting in decreased rusting and corrosion of the equipment.

The Bry-Air Honey Comb Desiccant Dehumidifier is able to maintain constant low dewpoint by removing the moisture from the air surrounding the mould through a process of continuous physical adsorption. The moisture is adsorbed in the dehumidification sector of the rotating honeycomb desiccant rotor and is expelled in the reactivation sector on a continuous basis.

Option Availability

	MDS-500	MDS-1000	MDS-1500	MDS-2000	MDS-2500
TEMP. + RH/ INDICATOR	AVAILABLE	AVAILABLE	AVAILABLE	AVAILABLE	AVAILABLE
INTER CONNECTING HOSE	AVAILABLE	AVAILABLE	AVAILABLE	AVAILABLE	AVAILABLE
AFTER COOLER	AVAILABLE	AVAILABLE	AVAILABLE	AVAILABLE	AVAILABLE

Utility Details

Model	Main connection cable size 4 core in copper (Sqmm)	Main MCB (Amp)	Coil connection Size (in BSP)		Pre Coil Pressure (PSI)	After Coil Pressure (PSI)	Pre Coil Req. Chiller Tonage	After Coil Req. Chiller Tonage
			Pre Coil	After Coil				
MDS-500	2.5	15	1"	1"	6	3.4	3.6	1.85
MDS-1000	4	25	1"	1"	6	4.2	7.7	2.8
MDS-1500	6	40	1.25"	1"	3.5	1.6	11	3.1
MDS-2000	10	50	1.25"	1"	3.3	1.8	15.1	4
MDS-2500	10	60	1.5"	1"	3.3	1.8	15.1	4

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