

**Bry-Air**®

Knows Drying Best

# Mould Dehumidification System

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**MDS Series**



## Mould Dehumidification System

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# WHEN A MOULD SWEATS... MOULDER SWEATS TOO

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The Bry-Air Mould Dehumidification System (MDS) prevents condensation on mould surface during moulding process. This ensures reduction of cycle time which results in increased productivity.

## FEATURES

- Honey comb design fluted Brywheel
- Chilled water pre cooling coil and after cooling coil
- Tubular type SS Heaters
- Easy cleanable air inlet filter
- Centrifugal fan for process & react air
- Quick openable access panels for service & maintenance
- Indication for operation & alarms
- Micro PLC controller, easy to operate
- World wide proven Siemens make electrical switchgears for safety & reliability
- Available purge segment for better performance

**BRYWHEEL**™

## ADVANTAGES

- Prevents mould sweating
- Improves production cycle time
- Increases mould life
- Reduces scrap rate
- Supply dry air to multiple machines
- Portable, easy to handle
- Enhances product quality and productivity
- Choice of Individual, plant wide and centralised control
- Decrease rust and corrosion of the equipment

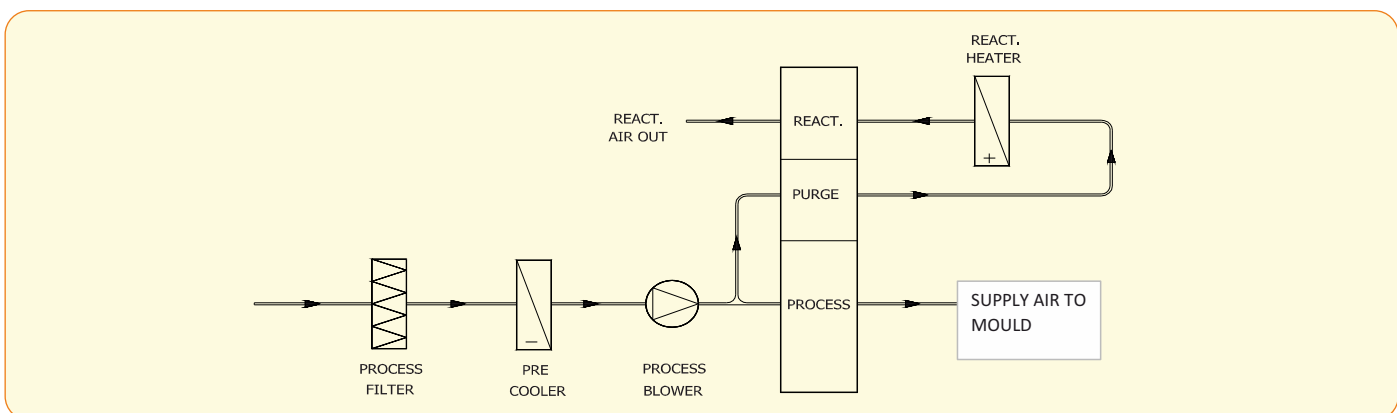


## UNDERSTANDING THE PROCESS

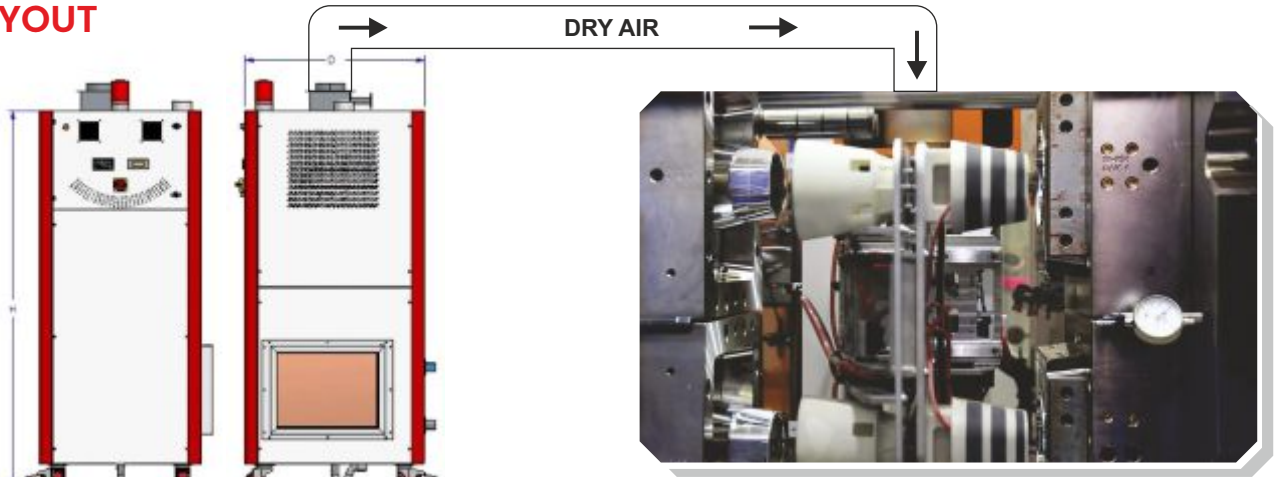
Moist air enters the unit through the process inlet and passes through the **BryWheel™** where the moisture is adsorbed. The moisture is separated through a process of continuous physical adsorption. The dehumidified air is then delivered to the confined space around mould through Mould Dehumidification System.

The rotating **BryWheel™** Honeycomb Rotor moves into the reactivation segment well before “saturation” where the moisture is driven off by the hot air blown through the reactivation segment of the rotor. The continuously rotating rotor provides extremely stable dehumidified process air to eliminate condensation on mould surface (Core & cavity).

## AIR FLOW DIAGRAM



**UNIT LAYOUT**



Mould Dehumidification Concept

**TECHNICAL SPECIFICATIONS**

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		DIMENSION IN (mm)			APPROX. SHIPPING WEIGHT (KG)
	PROCESS	REACT						GPM	LPM	D	W	H	
MDS-500	500	100	150	5.6	4.2	1.40	0.025	10	39	894	805	1920	315
MDS-1000	1000	200	200	8.3	6.9	1.40	0.040	20	75	894	805	1920	335
MDS-1500	1500	300	250	12.7	11.1	1.60	0.040	30	114	1185	1065	2500	440
MDS-2000	2000	400	250	16.0	13.8	2.2	0.040	39	148	1185	1065	2500	480
MDS-2500	2500	500	300	20.7	18.5	2.2	0.040	49	186	1285	1165	2500	570
MDS-3000	3000	600	300	24.5	22.2	2.3	0.040	58	220	1285	1165	2500	590

\*Customise solutions are on request for larger units

**OPTIONS**

	MDS-500	MDS-1000	MDS-1500	MDS-2000
Y-DAMPER ASSEMBLY	●	●	●	●
Inter Connecting Hose	●	●	●	●
DEW POINT DISPLAY	●	●	●	●

● Available

ALL DATA SUBJECT TO CHANGE WITHOUT NOTICE

**UTILITY DETAILS**

Model	Main connection cable size 4 core in copper (sq. mm)	Main MCB (Amp)	Pre-Coil connection Size (in BSP)	Pre-Coil Water Pressure (PSI)	Pre-Coil Water Flow (GPM)	Pre-Coil Req. Chiller Tonnage
MDS-500	2.5	16	1"	3.9	10	3.8
MDS-1000	2.5	20	1"	2.4	20	7.2
MDS-1500	6.0	30	1.5"	2.9	30	11.1
MDS-2000	6.0	40	1.5"	4.2	39	14.8
MDS-2500	10.0	50	1.5"	3.9	49	18.4
MDS-3000	10.0	63	1.5"	4.5	58	21.7

NOTE: As mention above coil data is based on water inlet 7°C.



Leaders in Dehumidification... Worldwide

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