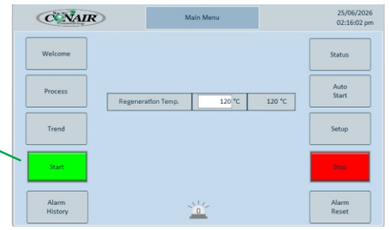
Mould Space Dryer

MS - Series



Unique Features

- Lower dew point at air outlet - 3°C to - 5°C to prevent condensation on mould which helps in improving productivity of the main processing machine
- Desiccant rotor based system instead of refrigerant based system
- Designed for higher static pressure at rated air flow
- Designed for Indian ambient conditions
- Proven component suppliers
- Compressor from Danfoss
- Ziehl-Abegg Germany make centrifugal blowers
- PLC based control
- Touch screen HMI of 7" size with color graphics
- Process and Regeneration blowers are protected against impurities with PP filter with easy access
- Lower pressure drop across the desiccant assembly
- Neat and clean component layout for easy access of major components
- Tabular fast response heater

Mould Space Dryers are used to maintain the surrounding area of mould with lower dew point temperature which will help in preventing sweating on the mould irrespective of atmospheric environment.

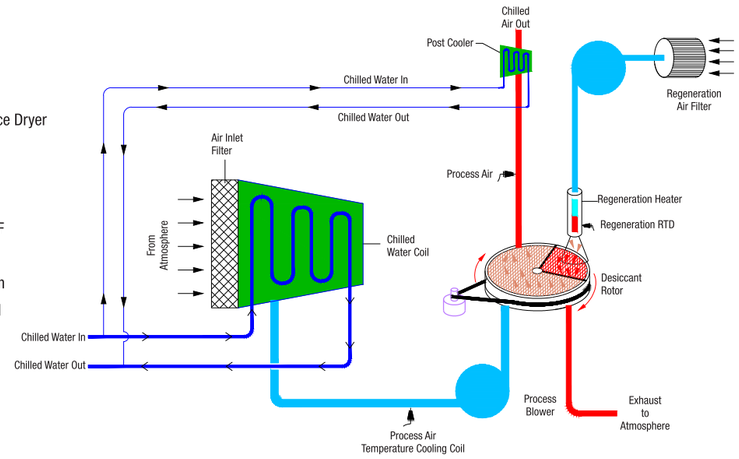
Mould Space Dryer generate and supply low dew point air into the closed enclosure around mould of processing machine which will reduce the dew point temperature of surrounding area of mould.

Without mould space dryer, there will be water condensation on the mould which leads to:

- reduced productivity due to increase in cooling time and overall cycle time
- improper quality of parts
- blockage of cavities
- reduced life of the expensive mould

Control

- User friendly design of touch screen HMI
- Display of temperature readings of air at various stages of process e.g.
  - Temperature at desiccant rotor outlet
  - Temperature going to process
  - Regeneration temperature
- Status of all DI & DO screen
- Trending screen to monitor the performance of Mould Space Dryer
- Two different levels of password protection
- Audio visual alarm
- Display of air outlet temperature and humidity
- Solid state relay based heater control for frequent ON / OFF
- Real time clock with capability to record last 50 alarms
- Capable to communicate through Modbus TCP / IP platform
- Option of multiple outlet for multiple machines with central Mould Space Dryer
- Optional dew point indication & control



Technical Specifications

Model	MS 1	MS 1.5	MS 2	MS 4	MS 5
Performance Characteristics					
Air Flow M3/Hr (CFM)**	400 (235)	600 (353)	1200 (705)	2400 (1411)	3000 (1764)
Process Air Static Pressure Wc" (Pa)	2.4" (600 Pa)	1.5" (373 Pa)	2" (500 Pa)		
Rated Air Outlet Dew Point** at 100 Deg. Cel. of Regeneration	Minus (-) 3.0 Degree Celsius				
Rated Air Outlet Dew Point** at 140 Deg. Cel. of Regeneration	Minus (-) 6.0 Degree Celsius				
Process Air Outlet Temperature Degree Celsius	30				
Standard Process Blower KW	0.51		0.62	3	
Standard Regeneration Blower KW	0.19		0.51	0.62	
Regeneration Heater KW	7.5		15	30	
Voltage	415V, 50 Hz, 3 Phase				
Connected Load KW	8.2		16.13	33.62	
Control Voltage	24V DC				
Dimension W x D x H (mm)					
W - Width	750	950		1400	
D - Depth	1550	1650		2400	
H - Height	2100	2200		2400	
Process Connections					
Process Delivery Size Ø Inch (mm)	5 (127)	6 (152.4)	8 (203.2)	12 (304.8)	
Regeneration Delivery Size Ø Inch (mm)	4 (101.6)	5 (127)		8 (203.2)	
Water Requirements (Customer Scope of Supply)					
Chiller Capacity Require KW (TR)	8.9 (2.5)	18 (5)	26.65 (7.5)	53.3 (15.1)	65 (19)
Temperature Degree Celsius	7.2				
Recommend Model of Chiller	EP3W 5 / EP3A 5	EP3W 8 / EP3A 8	EP3W 8 / EP3A 9	EP3W 18 / EP3A 22	EP2W 22 / EP3A 27
Flow Rate M^3 / Hr (LPM)	2 (32)	4 (70)	6 (96)	11.5 (191)	14 (240)
Chilled Water Inlet / Outlet Connection	1" BSP Female		1 1/2" BSP Female		
Weight Kg					
Installed (NET)	225		260	450	
Color	Black RAL 9005 / RAL 7047 Tele Grey 4				

All specifications are subject to change without prior notice.

**Considering ambient condition: 35 degree celsius & 63% relative humidity.

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