

## Mold Sweat Dehumidifiers

The SMD series mould sweat dehumidifiers are designed for the inhibition of moisture sweat from condensing on the mould surface. Forming of moisture sweat on the mould surface is due to the use of chilled water for reducing the moulding cycle time, particularly while moulding of the PET preforms. To bring about the moisture sweat on the mould surface is because the mould surface temperature is lower than the dew point temperature of surrounding air, the water vapor comes into being, then causes corrosion of mould and effects quality of moulding parts as well as production efficiencies. This series of machine uses honeycomb rotor to carry out dehumidification function, which generates a dry airflow with dew point ranging from 0°C to 10°C, and ensures the surrounding air of mould remaining in a low dew point temperature. It provides constant low dew point surrounding air to the mould surface all year round without being influenced by the change of seasons.

### Features :

- Honeycomb rotor is used to ensure constant air dehumidification effect.
- Accurate control and display of regenerating temperature using P.I.D. control.
- Microprocessor board is fitted to indicate machine running status and to diagnose malfunctions.
- Equipped with main power switch and cycle control switch.
- Under the normal state and atmospheric conditions, the humidity content of air can be controlled exactly all year round.
- Inhibits corrosion and prolongs service life of the mould, and yet reduces moulding cycle time.
- Air temperature generates by this series of machine is about 30°C, this ensures moisture condensation in the moulding area will not occur on the view window of the moulding machine.
- Supplied as standard, a return air collector is used to collect return air from the moulding area back to this machine and to form a closed-loop air circulation, which is particularly practical in tropical climate.
- Dew point monitor can be fitted as option to detect dry air quality.



SMD-500  
(With return air collector)



Operator Panel



## Specifications

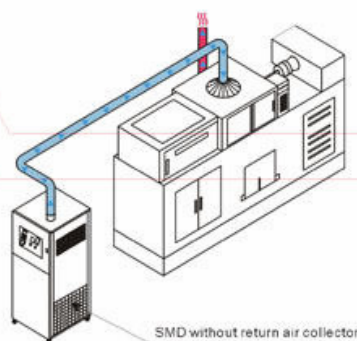
Model	SMD-500H	SMD-1000H	SMD-1500H	SMD-2000H
Process Blower (kw) (50 / 60Hz)	0.75 / 0.9	1.5 / 1.9	1.5 / 1.9	5.5 / 6.0
Regen. Blower (kw) (50 / 60Hz)	0.4 / 0.5	0.75 / 0.85	0.37 / 0.42	0.37 / 0.42
Process Air Flow (m <sup>3</sup> /hr)	500	1000	1500	2000
Regen. Heater (kw)	5	7.2	12	12
Process Pipe Diameter	4"	5"	8	8
Regen. Pipe Diameter	2"	2.5"	3	3
Water Connection	3/4"PT	3/4"PT	3/4"PT	3/4"PT
Ave. Process Air Temperature (°C)	30	30	30	30
Ave. Dew Point (°C)	-10	-10	-10	-10
Process Air Pressure (Pa)	3000	3000	1400	3500
Cooling Water Temp. (°C)	8~25°C	8~25°C	8~25°C	8~25°C
Cooling Water Flow (L/M)	50	50	100	100
Cooling Water Pressure (kgf/cm <sup>2</sup> )	3~5	3~5	3~5	3~5
Power Source (V)	3Φ, 230/400/460/575V, 50 / 60Hz			
Dimension	H (mm)	1685	1730	1990
	W (mm)	650	800	850
	D (mm)	700	805	1075
	Weight (kg)	250	300	350
Noise Level (dB A)	65	65	65	70

We reserve the right to change specifications without prior notice.

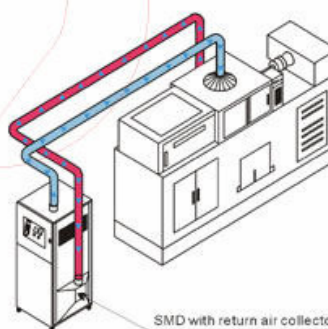
## Outline Drawing



## Installation Illustrations



Open-loop Air Circulation



Closed-loop Air Circulation

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