



Mold Sweat Dehumidifier

SMD-2000H

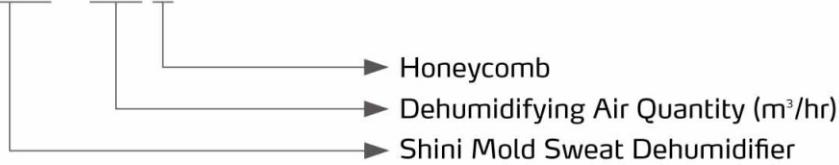


Refer carefully to this manual before operation.

SMD-H Series

■ Coding Principle

SMD - xxx H



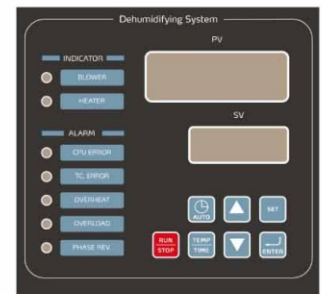
Notes: *

D=Dew-point Monitor
CE=Conformity

■ Features

Standard configuration

- Adopts P.I.D. temperature control system; can set regenerative temp. and have display screen of actual temp.
- Honeycomb rotor is used to ensure constant air dehumidifying effect.
- With main power switch, it ensures safety of operation and maintenance.
- Motor overload and phase reverse alarm functions are provided.
- Return air cooling and filtering are provided.
- Under normal atmospheric conditions, the air humidity can be controlled precisely all year round.
- Prolong service life of mold, reduce corrosion, and yet reduce product flaws and defective product rate.
- Cooler is standard equipped at the drying air outlet, which can adjust the temperature of outlet air.
- It has water auto-drainage function which can remove the condensed water out of the machine.



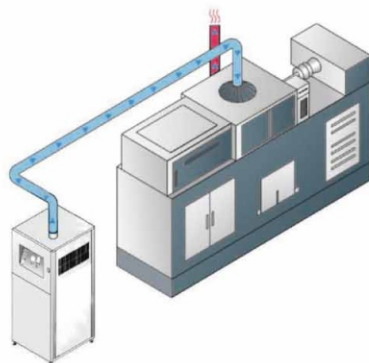
Control Panel

Accessory option

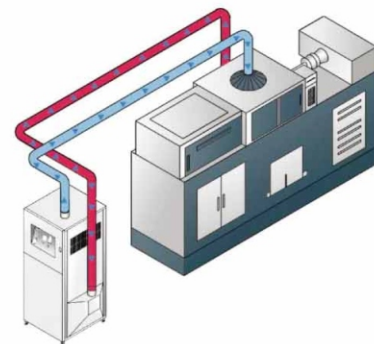
- Dismountable return air collector is optional. It can realize application of closed cycle and especially suitable for areas of high humidity.
- Digital dew-point monitor with high dew-point indication and alarm is optional.

■ Application

SMD series mould sweat dehumidifiers are designed to remove moisture sweat from condensing on mold surface. Moisture condensation on the mold surface is due to the use of chilled water for reducing molding cycle time, particularly while molding PET preform. When mold surface temperature is lower than dew-point temperature of surrounding air, the water vapor comes into being, which leads to moisture condensation, and then affect product quality and production efficiency as well as bring corrosion to the mold surface and cause environmental pollution. This series of machine uses honeycomb rotor to carry out dehumidifying function, which provides constant low dew-point drying air for the molding machine. It greatly reduces the reject ratio by making mold out from moisture condensation.



Open-loop Air Circulation



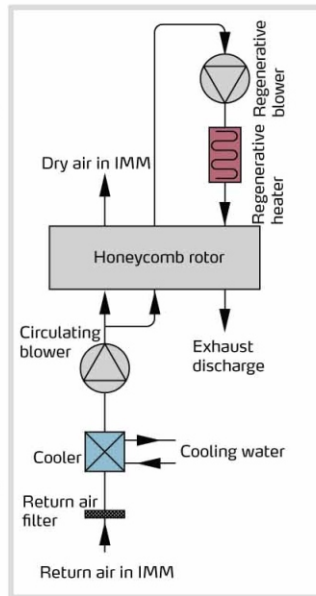
Closed-loop Air Circulation

SMD-H Series

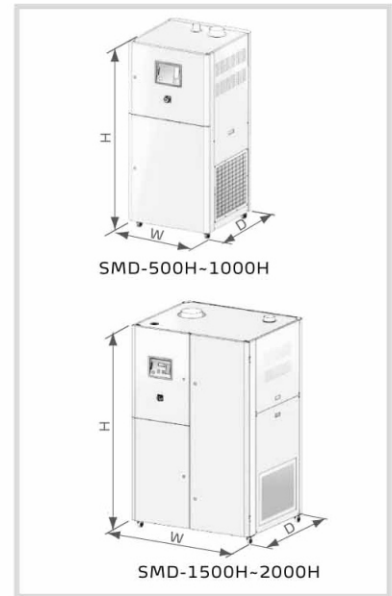
Working Principle

The large amount of air created by centrifugal blower will be directly blown to the models of IMM after being moisture absorbed by rotatory honeycomb and becoming dry air of low dew-point. Then air discharges through air outlet of mold closing chamber and returns to mold sweat dehumidifier through return air pipe. In this way, a circle finished.

The air around mold is very dry with dew-point no higher than 5°C. Environmental temperature drops fast during the rapid mold cooling, but temp. will not fall to 5°C. Therefore, dewdrop will not come into being during mold rapid-cooling, which ensures product quality.



Outline Drawings



Model Selection

Model	SMD-500H	SMD-1000H		SMD-1500H	SMD-2000H	
Cavity Number	12	16	24	32	48	56
Cavity Array	(2×6)	(2×8)	(4×6)	(4×8)	(4×12)	(4×14)
Cavity Distance	Standard	Standard	Standard	Standard	Standard	Standard
Max. Shot Weight (kg/hr)	200	270	400	420	560	560
Auxiliary Equipment Model Selection Guide						
Dryer Model	SHD-1500U	SHD-2000U	SHD-3000U	SHD-3000U	SHD-4000U	SHD-4000U
Dehumidifier Model	SD-700H	SD-1000H	SD-1500H	SD-1500H	SD-2000H	SD-2000H
Hopper Loader Model	SAL-2HP-UG	SAL-2HP-UG	SAL-3.5HP-UG	SAL-3.5HP-UG	SAL-5HP-UG	SAL-5HP-UG

Specifications

Model	Regen. Heater (kW)	Regen. Blower (kW) (50 / 60Hz)	Process Blower (kW) (50 / 60Hz)	Process Air Flow (m³ / hr)	Process Pipe Diameter (inch)	Regen. Pipe Diameter (inch)	Water Connection	Ave. Process Air Temperature (°C)	Dew-point Temp (°C)	Process Air Pressure (Pa)	Cooling Water Flow (L / M)	Cooling Water Pressure (kgf / cm²)	Dimensions (mm) H X W X D	Weight (kg)
SMD-500H	4	0.4	0.75	500	4	2	3/4" PT	30	-10~+5	3,000	45	3~5	1730×650×700	260
SMD-1000H	7.2	0.75	1.5	1,000	5	2.5	3/4" PT	30	-10~+5	3,000	90	3~5	1780×800×805	335
SMD-1500H	15	2.2	1.5	1,500	8	4	3/4" PT	30	-10~+5	1,400	135	3~5	2040×1150×1075	350
SMD-2000H	24	2.2	1.5	2,000	8	4	2" PT	30	-10~+5	1,230	180	3~5	1940×1300×1075	450

Notes: 1) Noise level ≤85dB (A).

2) Condition for Open-loop application: Ambient dry bulb temp. ≤30°C, relative moisture ≤70%.

3) Cooling water required temp.: 7~10°C.

4) Power: 3Φ, 230 / 400 / 460 / 575VAC, 50 / 60Hz.

We reserve the right to change specifications without prior notice.

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