Dehumidifying Dryer

SDD-80U/40H

Refer carefully to this manual before operation.

Coding Principle

SDD-xxxU/xxxH-xxx

- Options
- Dehumidifying Air Quantity (m^3/hr)
  H: Honeycomb Rotor
- Hopper Capacity (L)
  U:"U"series
- Shini Dehumidifying Dryer

Features

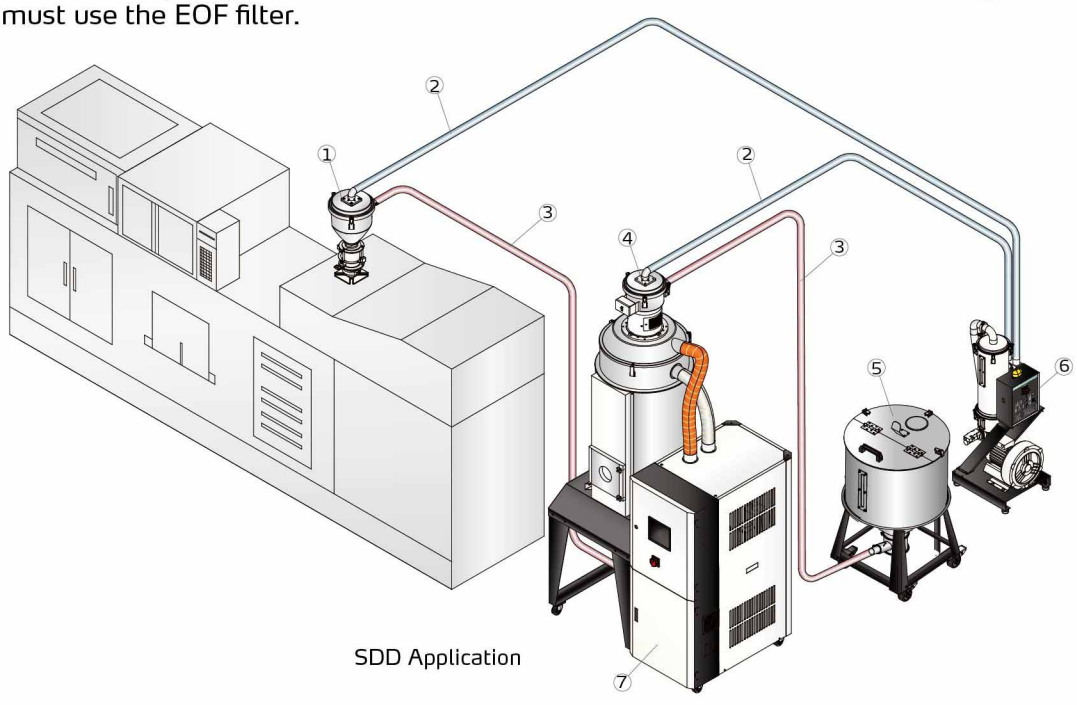
- Adopt molecular sieve structure honeycomb rotor, which provides low dew-point dry air. The honeycomb rotor structure is superior to double-barrel dehumidifier that will contaminate raw material due to damaged molecular sieve.
- Dehumidifying and drying function are integrated to ensure high efficiency.
- Insulated drying hopper features dry air down-blowing and cyclone exhaust design. This improves drying efficiency and reduces heat loss, saving energy.
- The dehumidifying section of the SDD series adopts cooler to ensure a low return air temperature and low dew-point.
- Microprocessor is the standard equipment, with a temperature controlling accuracy of ±1℃.
- Equipped with weekly timer, machine can automatically operate.

Touch Control Panel

Application

SDD dehumidifying dryers integrate dehumidifying and drying into one unit, which mainly process high efficient drying for hygroscopic plastics, such as PET, PA and PC. The floor mounted SDD collocated with loader and suction box beside the IMM can realize auto dehumidifying and drying. Besides, this machine can also be placed at the central material area to work with central material system for centralized drying processing. In addition, there're multiple options and accessories to meet various demands. If some dry materials are volatile, it must use the EOF filter.

1. Photosensor hopper receiver
2. Vacuum pipe
3. Material pipe
4. Vacuum hopper receiver
5. Material storage tank
6. Main vacuum unit
7. SDD



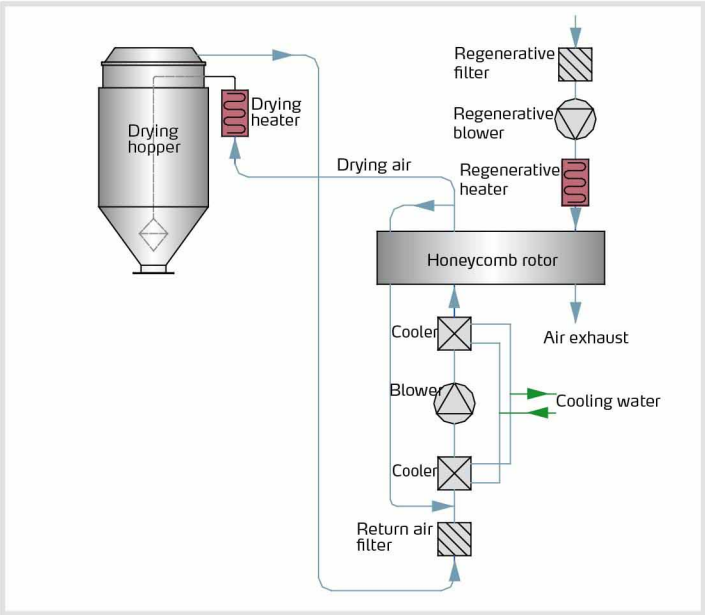
SDD Application

SDD Series

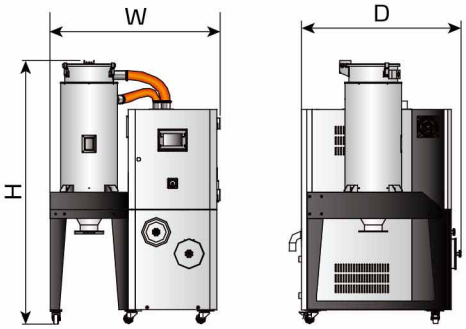
■ Working Principle

3D animation
(Tencent)

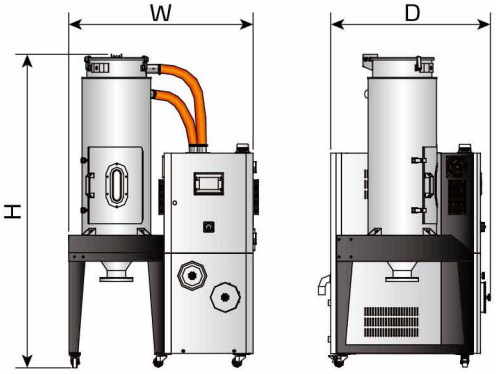
3D animation
(Youtube)



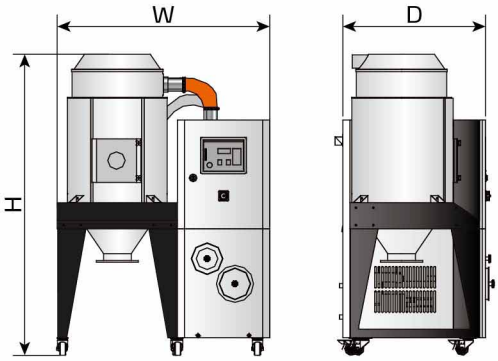
■ Outline Drawings



SDD-40U/40H



SDD-80U/40H~230U/120H



SDD-300U/200H~1200U/700H

Specifications

Model SDD-		40U/40H	80U/40H	120U/80H	160U/80H	160U/120H	230U/120H	300U/200H	450U/200H	600U/400H	750U/400H	900U/700H	1200U/700H
Regen. Heater(kW)		3				4				7.2		10	
Regen. Blower (kW, 50/60Hz)		0.12		0.18				0.4		0.75		1.5	
Drying Heater (kW)		4				6		12		18		24	
Drying Blower (kW, 50/60Hz)		0.18		0.75				1.5		3.75		7.5	
Dry Air Quantity (m³/hr)		40		80	120			200		400		700	
Hopper	L	40	80	120	160		230	300	450	600	750	900	1200
	gal	10.6	21	31.7	42.3		60.8	79.3	119	158.5	198	238	317
Dimension H	mm	1509	1796	1817	1740	2070	2052	2040	2440	2380	2610	2640	3070
	inch	59.4	70.7	71.5	68.5	81.5	80.8	80.3	96	93.7	102.8	104	121
Dimension W	mm	978	1060	1061	1220	1061	1210	1450		1745		2140	
	inch	38.5	41.7	41.8	48	41.8	47.6	57		68.7		84.3	
Dimension D	mm	931	1030	893				1050		1255		1380	
	inch	36.7	40.6	35.2				41.3		49.4		54.3	
Weight	kg	165	190	250	255	265	295	420	550	620	650	830	870
	lb	364	419	551	562	584	650	926	1213	1367	1433	1830	1918

Notes: 1) Plastic materials can be fully dried by drying air with dew-point temperature ≤-20°C.
2) Power: 3Φ, 230/400/460/575VAC, 50/60Hz.

Options

- For models with energy-saving drying management, add “ES” at model end, standard equipped with HMI touch control, which can reduce 41% of total power consumption at most. Volume used per hour can be set between 40~100% of drying capacity to reduce 35%~0 of totally power consumption; Equipped with heat regenerating recycler which recycles the heat of exhausted air via plate heat exchanger and can reduce 3%~6% of total power consumption. Meanwhile, dew-point value can be set to automatically control the temperature required by regeneration, if optional with dew-point monitor, saving 0~10% power consumption according to dew-point ranging from -40°C to 10 °C.
- For models with drying heat recycler, add “HE” at the end of model code. Dehumidified low temperature air recycles the heat of hot-wet return air via plate heat exchanger, which can raise the air temperature in drying heater and reduce the power consumption of the heater, as well as reduce 0%~19% of total power consumption.
- For models with polished hopper inside, add "P" at the end of the model code.
- Optional air cooling function is available for SDD, which is no need of cooling water, and add "A" at the end of the model code. It is applicable for (SDD-40U/40H~SDD-230U/120H).
- Upgraded to PLC & touch panel, Add "LC" at the end of the model code.
- The optional built-in dew point monitor is available, which is used to monitor real-time dew point. Add “D” at the end of the model code.

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