



## Dehumidifying Dryer

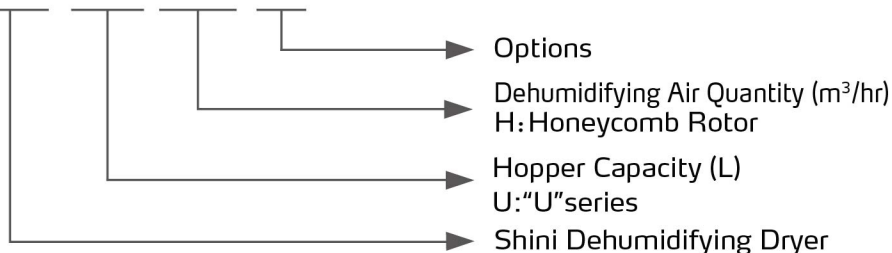
SDD-80U/40H



Refer carefully to this manual before operation.

## ■ Coding Principle

SDD-xxxU/xxxH-xxx



## ■ 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  $\pm 1^{\circ}\text{C}$ .
- Equipped with weekly timer, machine can automatically operate.

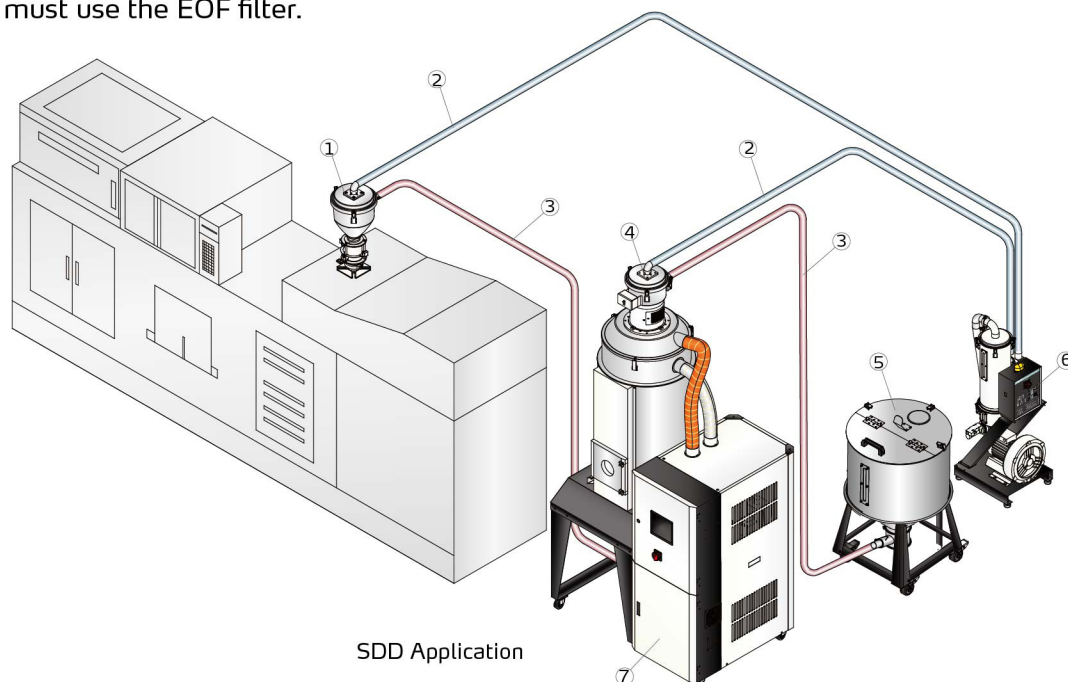


Touch Control Panel

## ■ 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 Series

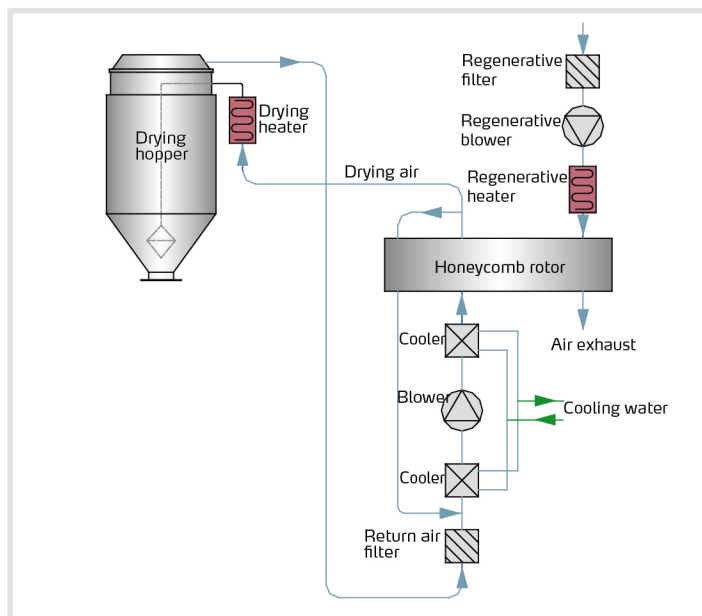
## Working Principle



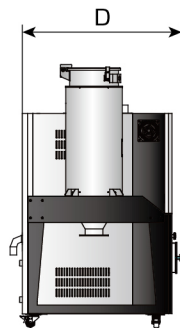
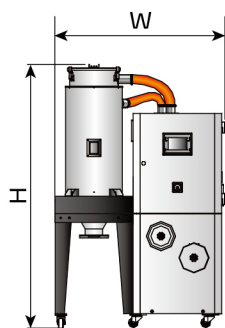
3D animation  
(Tencent)



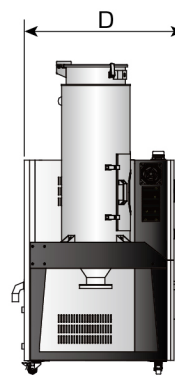
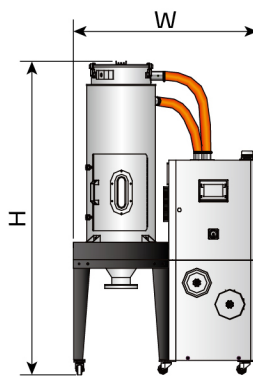
3D animation  
(Youtube)



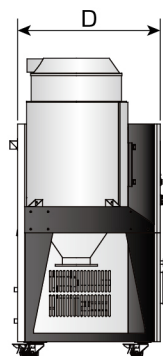
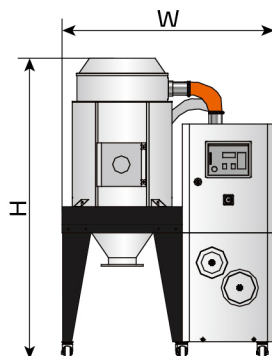
## Outline Drawings



SDD-40U/40H



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



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

## Specifications

| Model SDD-                  |        | 40U/<br>40H | 80U/<br>40H | 120U/<br>80H | 160U/<br>80H | 160U/<br>120H | 230U/<br>120H | 300U/<br>200H | 450U/<br>200H | 600U/<br>400H | 750U/<br>400H | 900U/<br>700H | 1200U/<br>700H |      |
|-----------------------------|--------|-------------|-------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|------|
| Regen. Heater (kW, 50/60Hz) |        | 3/3         |             | 3/4          |              | 4/4           |               | 4/6           |               | 7.2/7.2       |               | 10/10         |                |      |
| 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  |
|                             | 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           |      |
|                             | 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  $\leq -20^{\circ}\text{C}$ .

2) Power: 3 $\Phi$ , 230/400/460/575VAC, 50/60Hz.

## Options

- For models optional with energy-saving drying function, add "ES" at the end of the model code. Standard equipped with touch panel human-machine interface, it can automatically adjust the energy consumption as per material dosage. Collocated with regenerative heat recycler, total power consumption can be saved up to 41%.
- 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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### Factories:

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