



## Energy-efficient Hopper Dryer

SEHD-200

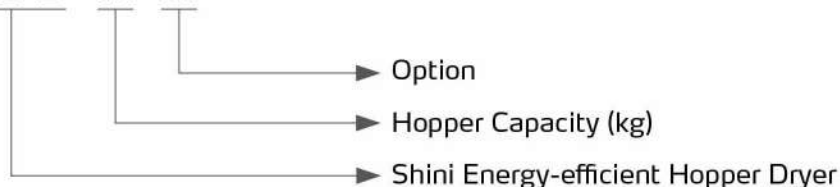


Refer carefully to this manual before operation.

# SEHD Series

## Coding Principle

SEHD - xx - xx



## Features

### Optimal structure

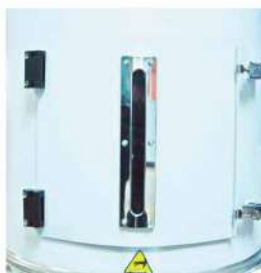
- Down-blowing structure design reduces the different between inlet air temperature and heater temperature to ensure stable inlet air temperature.
- Adopt heat-insulated blower to prolong blower lifespan.
- The heating tank adopts double-layer insulation structure which not only can reduce the power consumption but also can avoid Heating the ambient temperature.
- All material contact surfaces are made of stainless steel to eliminate material contamination.
- Detachable hopper base and maintenance door (except SEHD-12&25) for easy access.



Heat insulation blower



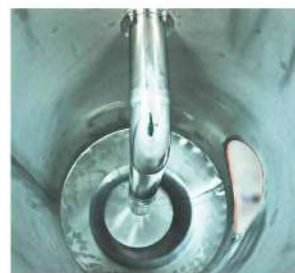
Down-blowing structure



Maintenance door



Double-layer insulated Structure



Internal structure

### User-friendly design

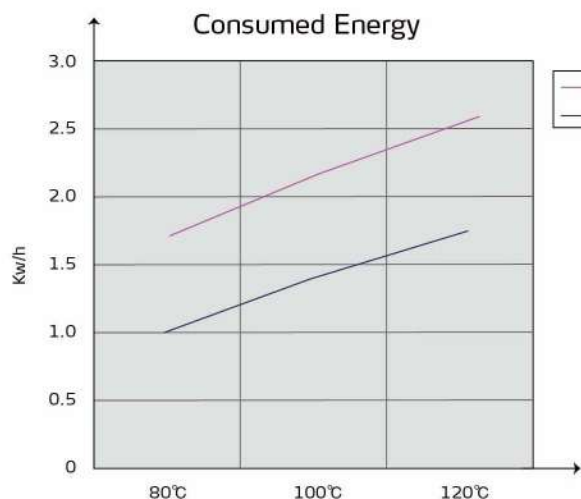
- SEHD-25-150 heater with lead sheet connected and all series are equipped with the temperature protector as to prevent the heater from burning.
- With overheat function, when the drying temperature exceeds the set deviation value, the main power supply will be automatically cut off.
- All series are standard equipped with the Weekly timer and intermittent operation function.
- All series are equipped with microcomputer control and RS485 communication interface.
- The max. drying temperature can reach 160°C.



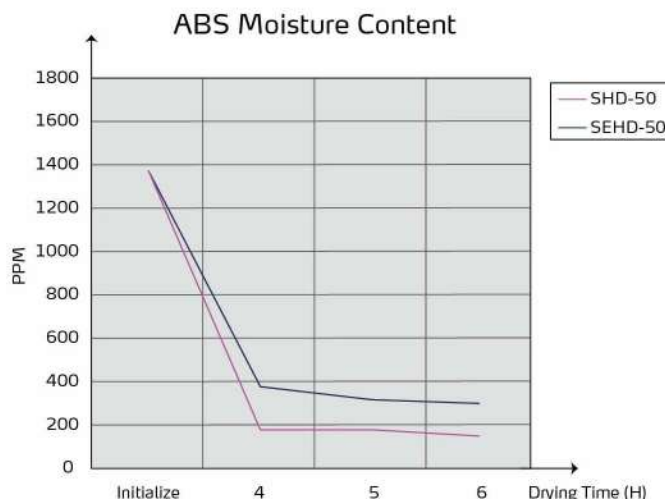
RS485 Communication interface

## Energy efficient

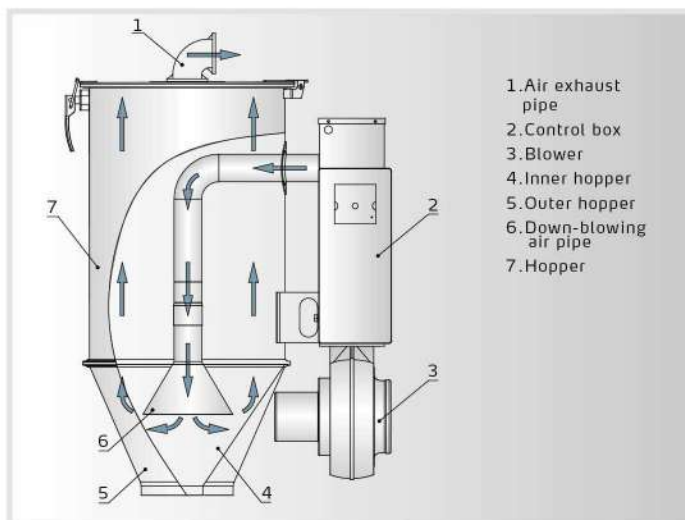
Take 50kg processed materials for example, SEHD can save 30-40% energy consumption compared with old SHD models under the same condition, which has significantly improved drying effect.



(\* Above datum are for reference only)



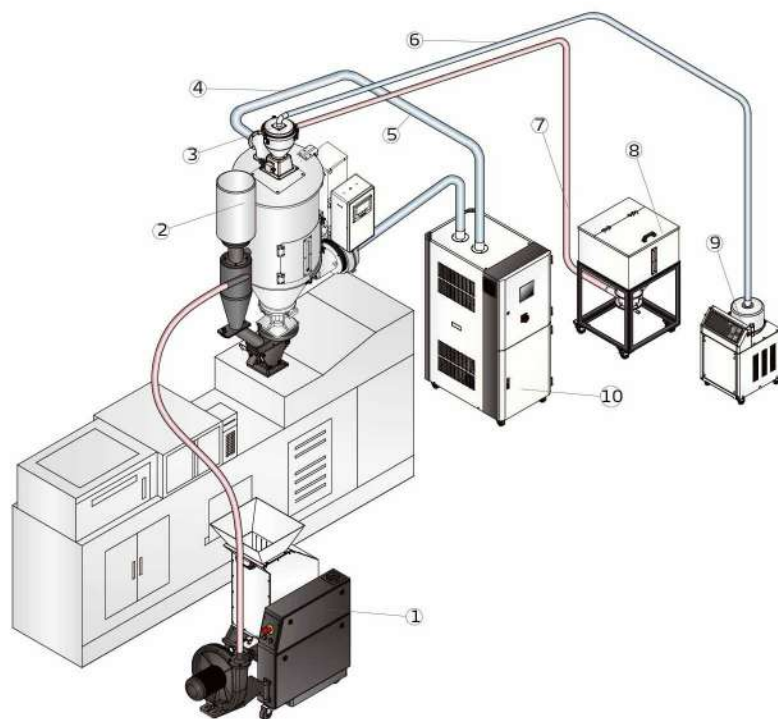
## Working Principle



## Application

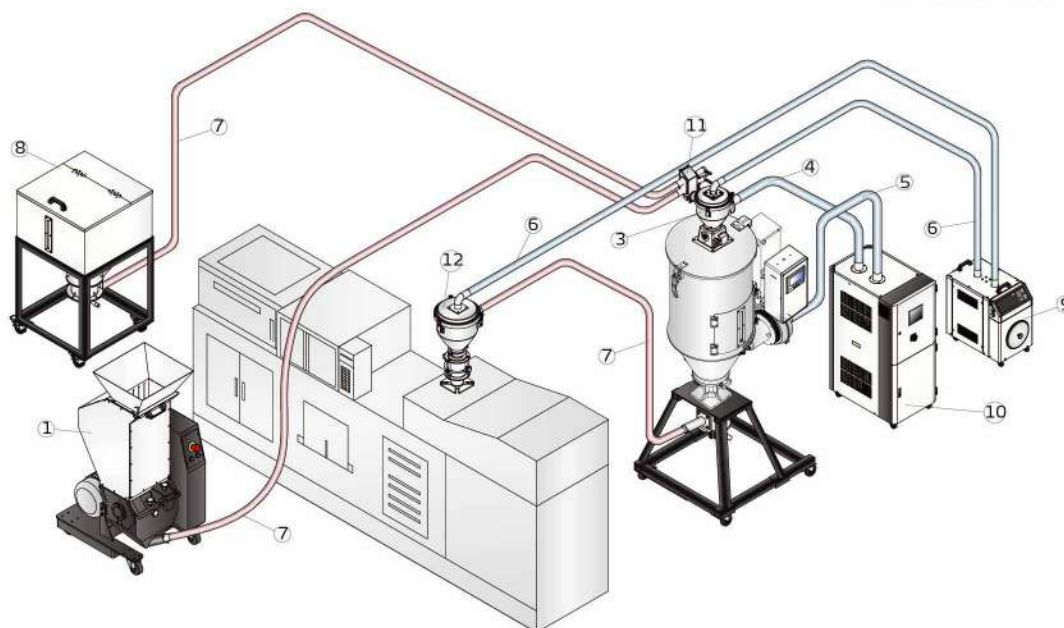
The SEHD energy-efficient hopper dryer can be used for drying most non-hygroscopic materials, such as PS, PP, ABS, etc. The maximum drying temperature can reach 160°C and it also can choose the optional double-layer insulation model to obtain uniform hopper temperature with less heat losses. Besides, multiple components are available as options that can recycle the hot air and filter the iron impurities in the material, which also can be installed on the ground with the floor stand.

# SEHD Series



Direct Mounting (SEHD-300 and below models)

- 1.Low-speed granulator
- 2.30-sec instant recycle
- 3.Vacuum hopper receiver
- 4.Return air
- 5.Dehumidifying air
- 6.Vacuum
- 7.Material pipe
- 8.Material tank
- 9.Main vacuum unit
- 10.Honeycomb dehumidifier
- 11.Proportional valve
- 12.Photosensor hopper receiver



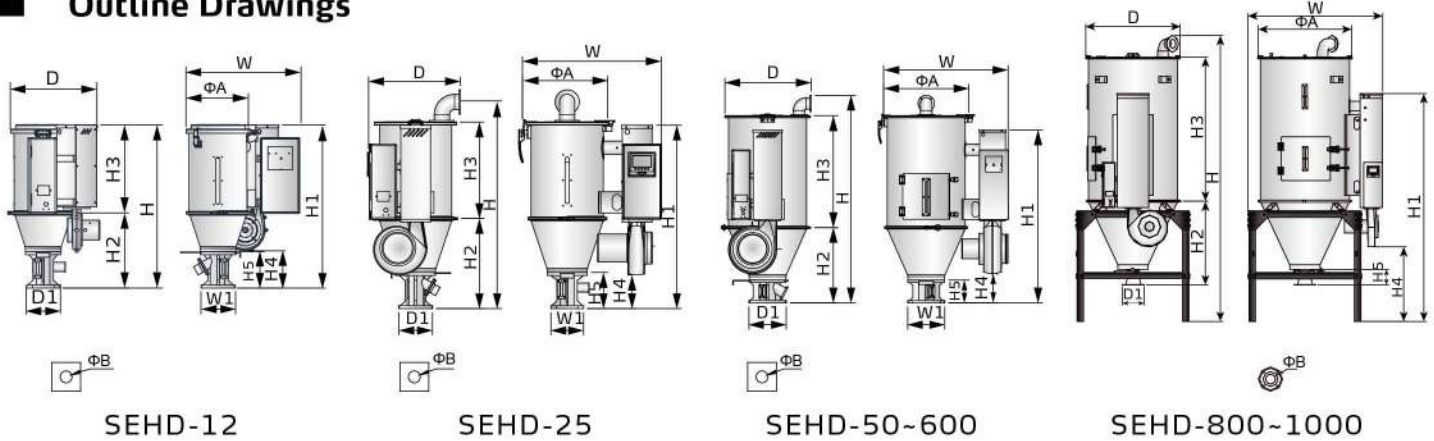
Floor Stand Mounting (SEHD-400 and above models)

## Options

- For models with hopper polished inside, add "P" at the end of the mode code.
- The high temp. model can reach the max. temp. of 180°C, and add "H" at the end of the model code. (Suitable for SEHD-12~200)



## Outline Drawings



## Specifications

| Model SEHD-        |      | 12   | 25   | 50    | 75    | 100   | 150   | 200  | 300   | 400   | 500    | 600    | 800    | 1000   |
|--------------------|------|------|------|-------|-------|-------|-------|------|-------|-------|--------|--------|--------|--------|
| Heater (kW)        |      | 2.2  | 3    | 3.9   | 4.2   | 6     | 6.6   | 8.4  | 9.6   | 18    | 19.2   | 21     | 21     | 24     |
| Blower (kW)        |      | 0.1  | 0.12 | 0.12  | 0.12  | 0.12  | 0.12  | 0.18 | 0.18  | 0.55  | 0.55   | 0.55   | 1.1    | 1.1    |
| Conveying capacity | kg   | 12   | 25   | 50    | 75    | 100   | 150   | 200  | 300   | 400   | 500    | 600    | 800    | 1000   |
|                    | lb   | 26.5 | 55.1 | 110.2 | 165.3 | 220.5 | 330.7 | 441  | 661.4 | 881.8 | 1102.3 | 1322.8 | 1763.7 | 2204.6 |
| H                  | mm   | 761  | 1010 | 1196  | 1476  | 1442  | 1782  | 1675 | 2058  | 2202  | 2382   | 2586   | 3060   | 3502   |
|                    | Inch | 30   | 39.8 | 47    | 58.1  | 56.8  | 70.2  | 65.9 | 81    | 86.7  | 93.8   | 101.8  | 120.5  | 137.9  |
| H1                 | mm   | 761  | 754  | 939   | 939   | 1201  | 1201  | 1363 | 1363  | 1618  | 1618   | 1618   | 2442   | 2442   |
|                    | Inch | 30   | 29.7 | 37    | 37    | 47.3  | 47.3  | 53.7 | 53.7  | 63.7  | 63.7   | 63.7   | 96.1   | 96.1   |
| H2                 | mm   | 350  | 404  | 452   | 452   | 523   | 523   | 617  | 617   | 844   | 844    | 844    | 2898   | 2898   |
|                    | Inch | 13.8 | 15.9 | 17.8  | 17.8  | 20.6  | 20.6  | 24.3 | 24.3  | 33.2  | 33.2   | 33.2   | 114.1  | 114.1  |
| H3                 | mm   | 411  | 454  | 609   | 890   | 778   | 1118  | 820  | 1203  | 1120  | 1300   | 1504   | 1543   | 1975   |
|                    | Inch | 16.2 | 17.9 | 24    | 35    | 30.6  | 44    | 32.3 | 47.4  | 44.1  | 51.2   | 59.2   | 60.7   | 77.8   |
| H4                 | mm   | 174  | 138  | 184   | 184   | 201   | 201   | 285  | 285   | 546   | 546    | 546    | 800    | 800    |
|                    | Inch | 6.9  | 5.4  | 7.2   | 7.2   | 7.9   | 7.9   | 11.2 | 11.2  | 21.5  | 21.5   | 21.5   | 31.5   | 31.5   |
| H5                 | mm   | 170  | 150  | 150   | 150   | 158   | 158   | 231  | 231   | 288   | 288    | 288    | 167    | 167    |
|                    | Inch | 6.7  | 5.9  | 5.9   | 5.9   | 6.2   | 6.2   | 9.1  | 9.1   | 11.3  | 11.3   | 11.3   | 6.6    | 6.6    |
| W                  | mm   | 531  | 638  | 709   | 720   | 864   | 864   | 986  | 986   | 1176  | 1176   | 1176   | 1448   | 1448   |
|                    | Inch | 20.9 | 25.1 | 27.9  | 28.3  | 34    | 34    | 38.8 | 38.8  | 46.3  | 46.3   | 46.3   | 57     | 57     |
| D                  | mm   | 404  | 430  | 477   | 477   | 600   | 600   | 767  | 767   | 935   | 935    | 935    | 1012   | 1012   |
|                    | Inch | 15.9 | 16.9 | 18.8  | 18.8  | 23.6  | 23.6  | 30.2 | 30.2  | 36.8  | 36.8   | 36.8   | 39.8   | 39.8   |
| D1                 | mm   | 130  | 158  | 158   | 158   | 238   | 238   | 218  | 218   | 345   | 345    | 345    | 234    | 234    |
|                    | Inch | 5.1  | 6.2  | 6.2   | 6.2   | 9.4   | 9.4   | 8.6  | 8.6   | 13.6  | 13.6   | 13.6   | 9.2    | 9.2    |
| W1                 | mm   | 130  | 148  | 148   | 148   | 238   | 238   | 218  | 218   | 345   | 345    | 345    | 234    | 234    |
|                    | Inch | 5.1  | 5.8  | 5.8   | 5.8   | 9.4   | 9.4   | 8.6  | 8.6   | 13.6  | 13.6   | 13.6   | 9.2    | 9.2    |
| ΦA                 | mm   | 299  | 387  | 470   | 470   | 594   | 594   | 750  | 750   | 910   | 910    | 910    | 1006   | 1006   |
|                    | Inch | 11.8 | 15.2 | 18.5  | 18.5  | 23.4  | 23.4  | 29.5 | 29.5  | 35.8  | 35.8   | 35.8   | 39.6   | 39.6   |
| ΦB                 | mm   | 52   | 55   | 55    | 55    | 90    | 90    | 90   | 90    | 116   | 116    | 116    | 161    | 161    |
|                    | Inch | 2.0  | 2.2  | 2.2   | 2.2   | 3.5   | 3.5   | 3.5  | 3.5   | 4.1   | 4.1    | 4.1    | 6.3    | 6.3    |
| Net Weight         | kg   | 35   | 40   | 45    | 75    | 85    | 95    | 100  | 120   | 165   | 170    | 240    | 360    | 400    |
|                    | lb   | 77   | 88   | 99    | 165   | 187   | 209   | 220  | 265   | 364   | 375    | 529    | 794    | 882    |

Notes: 1) Above loading capacity is based on pellet material of 0.65kg/L(5.5lb/gal) in bulk density and 3-5mm(0.1~0.2inch) in diameter.  
2) Power: 3Φ, 230/400/460/575VAC, 50/60Hz.

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