

100% Corrosion-Free Stainless Steel Hot Air Dryer

Unique down-blowing design ensures hot air is evenly distributed.

Comet's CHD-U series corrosion free stainless steel hot air hopper dryer is ideally suited as a stand-alone unit or to use with honeycomb matrix dehumidifiers to remove surface moisture from non-hygroscopic resins.

There are 25 models available ranging from 44 to 17,600 lbs. (20 to 8,000 liters). Airtight material clean-out doors are available on models CHD-80U and above. The PID temperature control features an LED display and an auto start/stop timer as standard equipment.

Standard Features

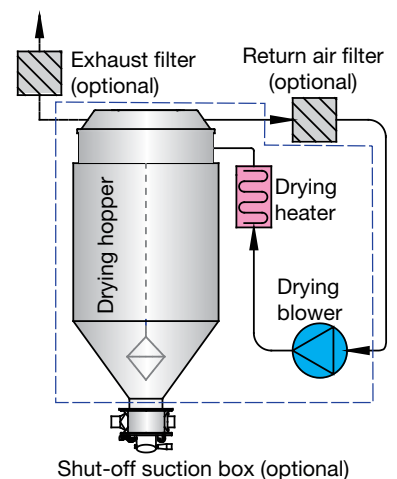
- PID temperature control with LCD display and RS485 communication function.
- Overheat protection ensures reliable operation.
- Unique, down-blowing air design ensures hot air is evenly distributed to maintain a steady temperature in the hopper and increase drying efficiency.
- Over-heat protection ensures reliable operation.
- 7-day start/stop timer improves energy consumption and saves you money.
- Models CHD-80U and above have a material cleanout door ensuring quick cleanup time and easy maintenance.
- Models CHD-450U and below have a stainless steel lined aluminium base.
- Models CHD-600U~1200U have an aluminium magnetic base.
- Models CHD-1500U and model above have a manual butterfly valve.
- Models CHD-900U and above come with a floor.



CHD-300U

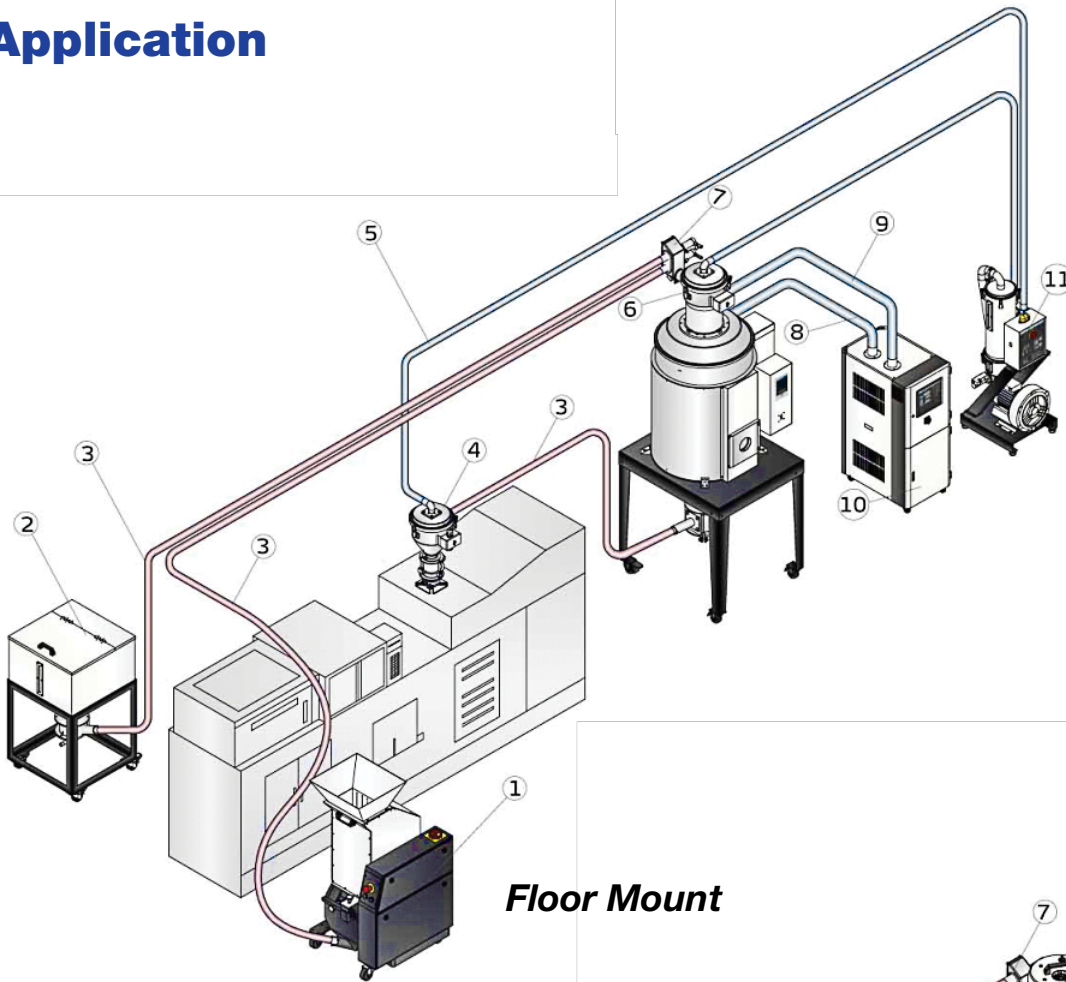
Working Principle

During the drying process, ambient air is drawn through a filter into a heater/blower unit then heated. The heater/blower is mounted on a two-layered insulated drying hopper. Hot air is circulated down through the material in the hopper, carrying surface moisture up and out the top of the hopper. The CHD-U can be mounted directly onto the feed-throat of a molding machine, eliminating the possibility of moisture re-absorption contaminating the resin. An optional, closed-loop hot air recycler can filter and recycle the air from the air outlet.



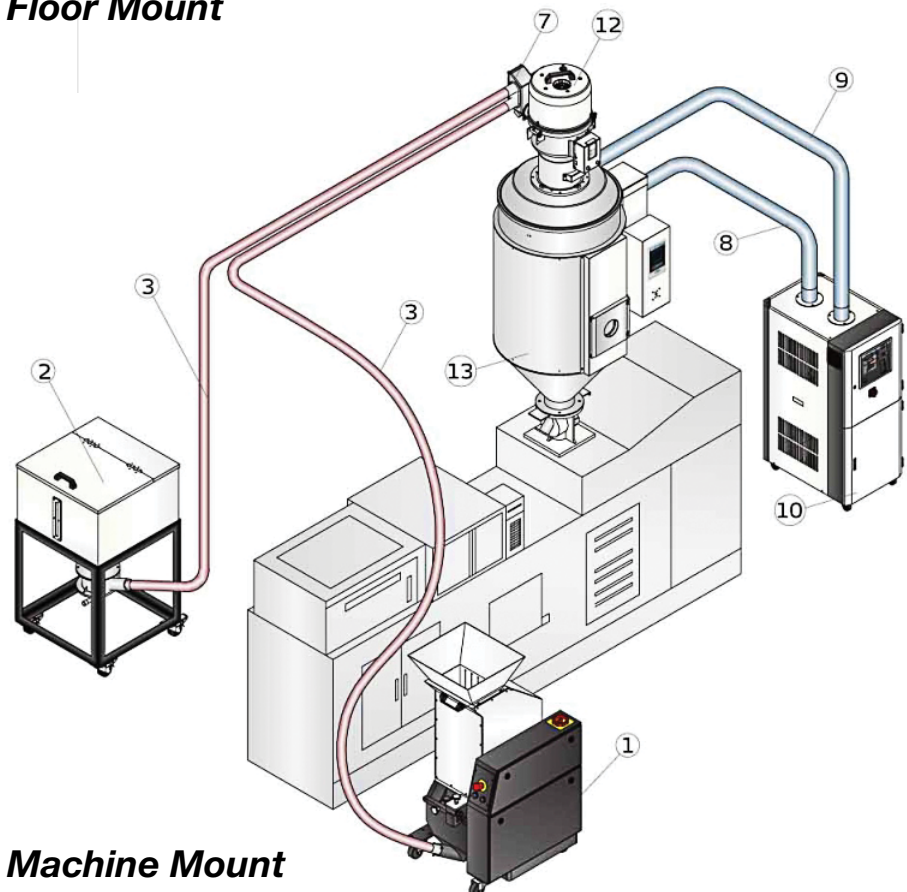
CHD-U Series

Application



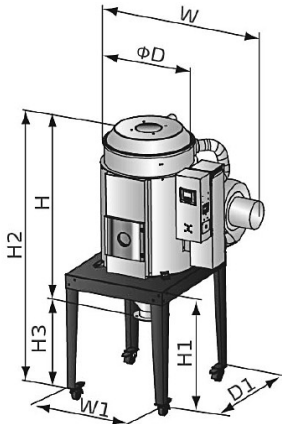
Floor Mount

1. Low Speed Granulator
2. Material Receptacle
3. Material Pipe
4. Photosensor Hopper
5. Vacuum Pipe
6. Vacuum Hopper
7. Proportioning Valve
8. Dehumidifying Air
9. Return Air
10. Honeycomb Dehumidifier
11. Separate Auto Loader
12. Auto Loader
13. Drying Hopper

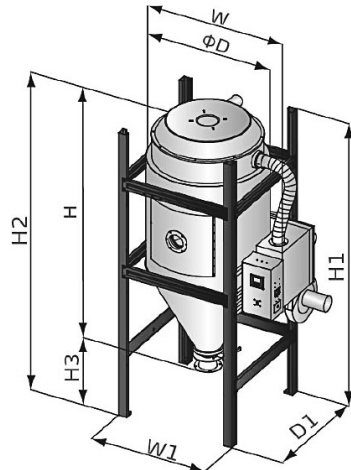


Machine Mount

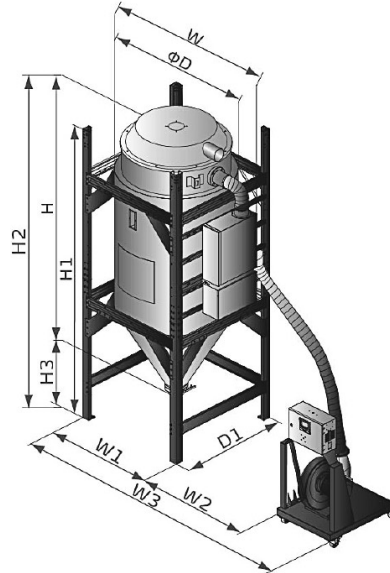
Outline Drawings



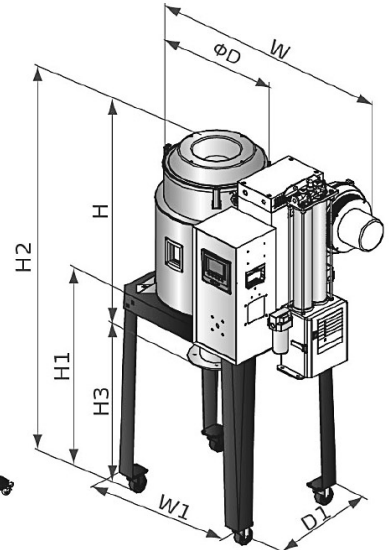
CHD-20U ~ 750U



CHD-900U ~ 1200U



CHD-1500U ~ 8000U



CHD-U-HD

Specifications

Model	Heater Power (kW)	Blower (kW, 50/60Hz)	Loading Capacity (L)	Dimensions H x W x D (inch)	Floor Stand H1 x W1 x W2 x W3D (inch)	Height H2 (inch)	Air Inlet Pipe Dia. (inch)	Air Outlet Pipe Dia. (inch)	Weight (lbs)
CHD-20U	2.2	0.05	20	28.7 x 22.6 x 12.8	31 x 17.7 x - x - x 21.7	49.6	2	1.5	88
CHD-40U	3	0.12	40	29.9 x 31 x 15.5	31 x 28.8 x - x - x 17.7	51			154
CHD-80U	3.9	0.12	80	37 x 34.8 x 18.6	33 x 28.7 x - x - x 22	58.3	2.5	2	187
CHD-120U	3.9	0.12	120	47.6 x 34.8 x 18.6	33 x 28.7 x - x - x 22	68.5			220
CHD-160U	6	0.12	160	48.2 x 32.4 x 22.6	36.2 x 25.7 x - x - x 31.3	71.7	3	2.5	198
CHD-230U	6	0.12	230	59.3 x 32.4 x 22.6	36.2 x 25.7 x - x - x 31.3	82.9			220
CHD-300U	12	0.18	300	57 x 37.2 x 27.4	38 x 31 x - x - x 36.6	82			287
CHD-450U	12	0.18	450	72.8 x 37.2 x 27.4	38 x 31 x - x - x 36.6	96			353
CHD-600U	18	0.55	600	71.7 x 46 x 36	44.5 x 39.4 x - x - x 47.2	97.2	4	4	441
CHD-750U	18	0.55	750	82.7 x 46 x 36	44.5 x 39.4 x - x - x 47.2	109			485
CHD-900U	18	0.55	900	85.6 x 55.5 x 41.3	109 x 44.5 x - x - x 44.4	108.8			904
CHD-1200U	24	1.1	1200	102 x 55.5 x 41.3	126 x 45 x - x - x 45	125.6			1,235
CHD-1500U	32	3	1500	125 x 64.6 x 49.2	137 x 52.8 x 15.7 x 78.7 x 52.8	136.6	5	5	1,510
CHD-2000U	32	3	2000	141 x 60.7 x 49.2	137 x 52.8 x 15.7 x 78.7 x 52.8	152.4			1,698
CHD-2500U	58	5.5	2500	147 x 70.8 x 55	157 x 58.3 x 15.7 x 89 x 58.3	157.5	6	6	1,764
CHD-3000U	58	5.5	3000	163 x 70.8 x 55	173 x 58.3 x 15.7 x 89 x 58.3	173			1,984
CHD-3500U	64	7.5	3500	179 x 70.8 x 55	189 x 58.3 x 15.7 x 89 x 58.3	189			2,227
CHD-4000U	64	7.5	4000	172 x 79 x 63	179 x 66 x 15.7 x 96.9 x 66	182.5	8	8	2,557
CHD-5000U	80	11	5000	191 x 79 x 63	203 x 66 x 15.7 x 96.9 x 66	206			3,064
CHD-6000U	96	15	6000	181 x 88.6 x 71	192 x 76 x 15.7 x 109.4 x 76	193.8			3,373
CHD-7000U	112	18.5	7000	230 x 88.6 x 71	228 x 76 x 15.7 x 109.4 x 76	230			3,825
CHD-8000U	128	22	8000	237 x 88.6 x 71	221 x 76 x 15.7 x 109.4 x 76	253	10	10	4,012

Note:

1) Blower included in net weight (floor stand not included)

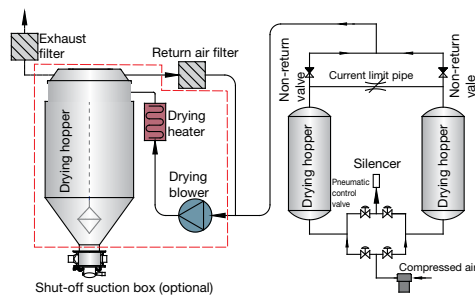
2) Power supply: 3φ, 230 / 400 / 460 / 575V, 50 / 60Hz

We reserve the right to change specifications without prior notice.

Optional Accessories

Heatless Regenerative Air Dryer

Delivers low dewpoint dry air without heat and speeds material drying.



Access Safety Ladder

Available for models CHD-1500U and above.



Hopper Magnets

Captures metal scraps in the material to prevent damage to the plasticizing screw.



Blower Inlet Filters

Effectively filters 80% of the dust in the air to the dryer to avoid pollution.



Hot Air Recyclers

Works with a hopper dryer enabling hot air to form a semi-sealed circulated loop.



Exhaust Air Filters

Effectively filters 90% of air dust contained in the air from the dryer to avoid pollution.



Magnetic Base

Works with the dryer to capture metal scrap preventing contamination.



Floor Stands

Easy installation and transportation of dryer and hopper loader.



Floor Stand
(CHD-20U~750U)



Floor Stand
(CHD-900U~8000U)