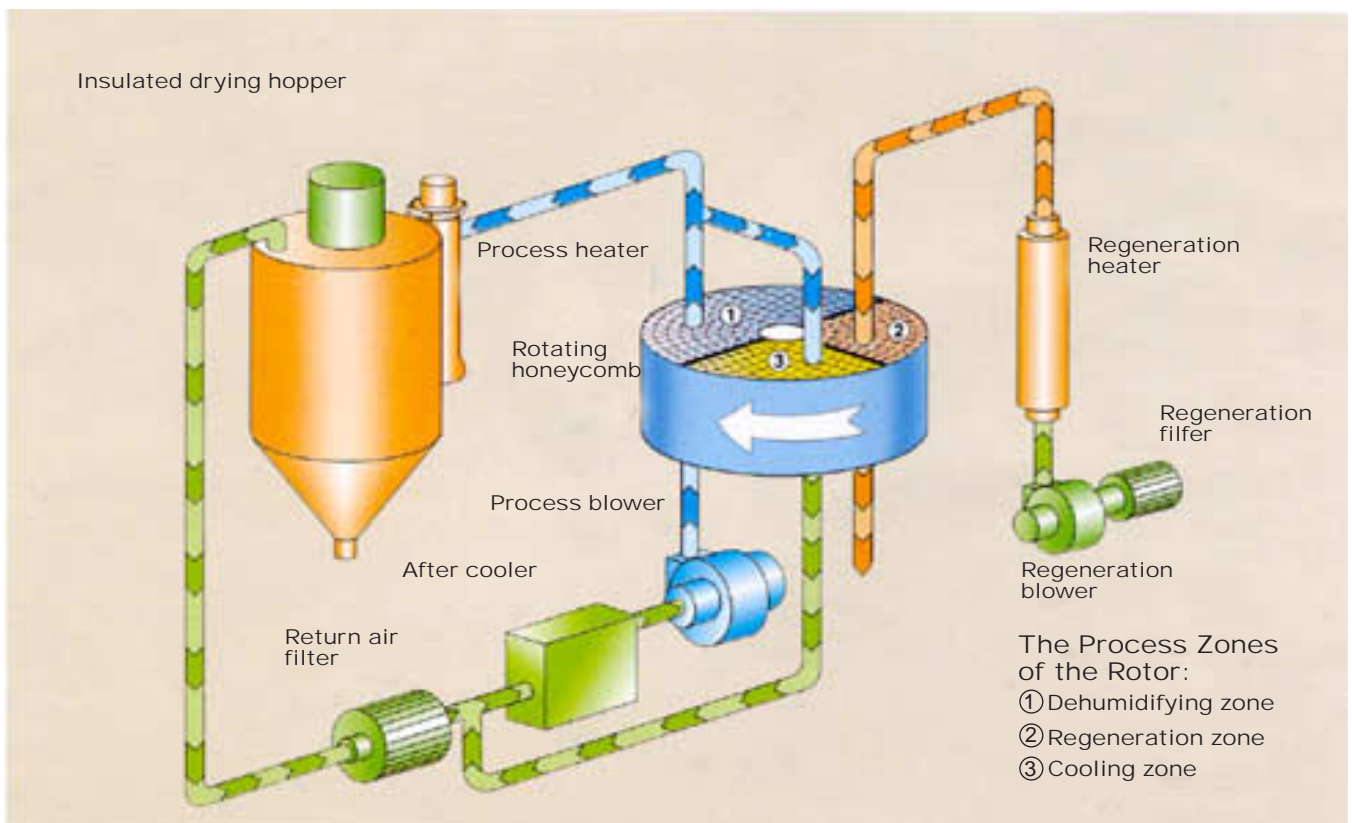


CDD.H Series **Honeycle** Compact Dehumidifying Dryers

Machine specifications are about the same as the Honeycle Dehumidifiers but more with process heater fitted as standard. This system includes an insulated drying hopper and a portable floor stand also an insulated material suction box in which the optional integral powered hopper loader draws dry air from the system to act as venturi source to form a semi-closed-loop loading configuration (see illustration), or to adapt with an optional separate powered hopper loader to form a closed-loop loading configuration (see illustration). Material drying capacity of 100 and 1500 kg/hr depending on models hence suitable for drying large quantities of hygroscopic materials. Dew-point of the dried air is up to -50°C .



The Dehumidifying Principle



Drying Capacities Kg/hour

Material	Drying Temp.(°C)	Drying ⁽¹⁾ Time (hr)	Moisture Content(%)	Specific Heat	Drying Capacity ⁽²⁾ / CDD.H model								
					100	150	200	300	400	500	700	1000	1500
ABS	80	2-3	0.2-0.6	0.34	33.3	50	66.7	100	133.3	200	266.7	333.3	500
POM	100	2	0.08-0.25	0.35	50	75	100	150	200	300	400	500	750
PMMA	80	3	0.1-0.7	0.35	33.3	50	66.7	150	133.3	300	266.7	500	500
IONOMER	90	3-4	1.4	0.55	25	37.5	50	75	100	150	200	250	375
PA6 / 6.6	75	4-6	1.2-5	0.40	16.7	25	33.3	50	66.7	100	133.3	166.7	250
PA11	75	4-5	1.0-1.5	0.58	20	30	40	60	80	120	160	200	300
PA12	75	4-5	1.0-1.5	0.28	20	30	40	60	80	120	160	200	300
PC	120	2-3	0.3-0.36	0.28	33.3	50	66.7	100	133.3	200	266.7	333.3	500
PU	90	2-3	0.2-0.9	0.45	33.3	50	66.7	100	133.3	200	266.7	333.3	500
PBT	130	3-4	0.08-0.34	0.3-0.5	25	37.5	50	75	100	150	200	250	375
PE	90	1	0.01	0.55	100	150	200	300	400	500	800	1000	1500
PET	160	4-5	0.08	0.3-0.5	20	30	40	60	80	120	160	300	300
PPO	110	1-2	0.13	0.40	50	75	100	150	200	300	400	500	750
PI	120	2	0.32	0.27	50	75	100	150	200	300	400	500	750
PP	90	1	0.02	0.46	100	150	200	300	400	600	800	1000	1500
PS (GP)	80	1	0.01	0.28	100	150	200	300	400	600	800	1000	1500
PSU	120	3-4	0.22	0.31	25	37.5	50	75	100	150	200	250	375
PVC	70	1-2	0.1-0.4	0.20	50	75	100	150	200	300	400	500	750
SAN (AS)	80	1-2	0.1-0.3	0.32	50	75	100	150	200	300	400	500	750

(1) Base on relative humidity 65% with ambient temperature of 20°C, moisture content after drying can be 0.005% or less.

(2) Capacities are based on 60hz operations.

Specifications

CDD.H model		100	150	200	300	400	500	700	1000	1500
Dry air flow rate	m ³ /hr	100	150	200	300	400	500	700	1000	1500
Volume of drying hopper (model)	litre	160 (SHD100)	250 (SHD150)	350 (SHD200)	500 (SHD300)	600 (SHD400)	850 (SHD600)	1200 (SHD800)	1665 (SHD1000)	2025 (SHD1200)
Lowest dew-point	°C	-50								
Process Heater	kW	5	8	10	12	18	22	28	32	34
Process blower power	kW	0.75	0.75	1.9	2.6	1.87*	2.2*	3.7*	5.5*	7.5*
Regen. Blower power	kW	0.2	0.37	0.75	0.75		1.9		2.6	1.5*
Regeneration heater	kW	3.5	4	5.4	7.2		10		15	30
In/outlet pipe diameter	inch	2"		2-1/2"	3"		4"		5"	6"
Required cooling water flow**	L/min	7.7	11.6	15.5	23.2	30.9	38.7	54.1	77.4	116.1
Cooling capacity**	Kcal/hr	2320	3480	4640	6960	9280	11600	16240	23200	34800
Voltage (phase)	V	380 ~ 460 (3Ø)								
Width	mm	500	600			800			900	1200
Depth	mm	780	1100			1380			1450	1500
Height	mm	1270	1680			1790			1990	2200
Weight (approx.)	kg	190	230	230	250	290	290	310	410	520

* Those models use high-efficiency turbo blower.

** Base on the condition of “before” air temperature at 100°C and “after” air temperature at 20°C, and using 10°C chilled water.