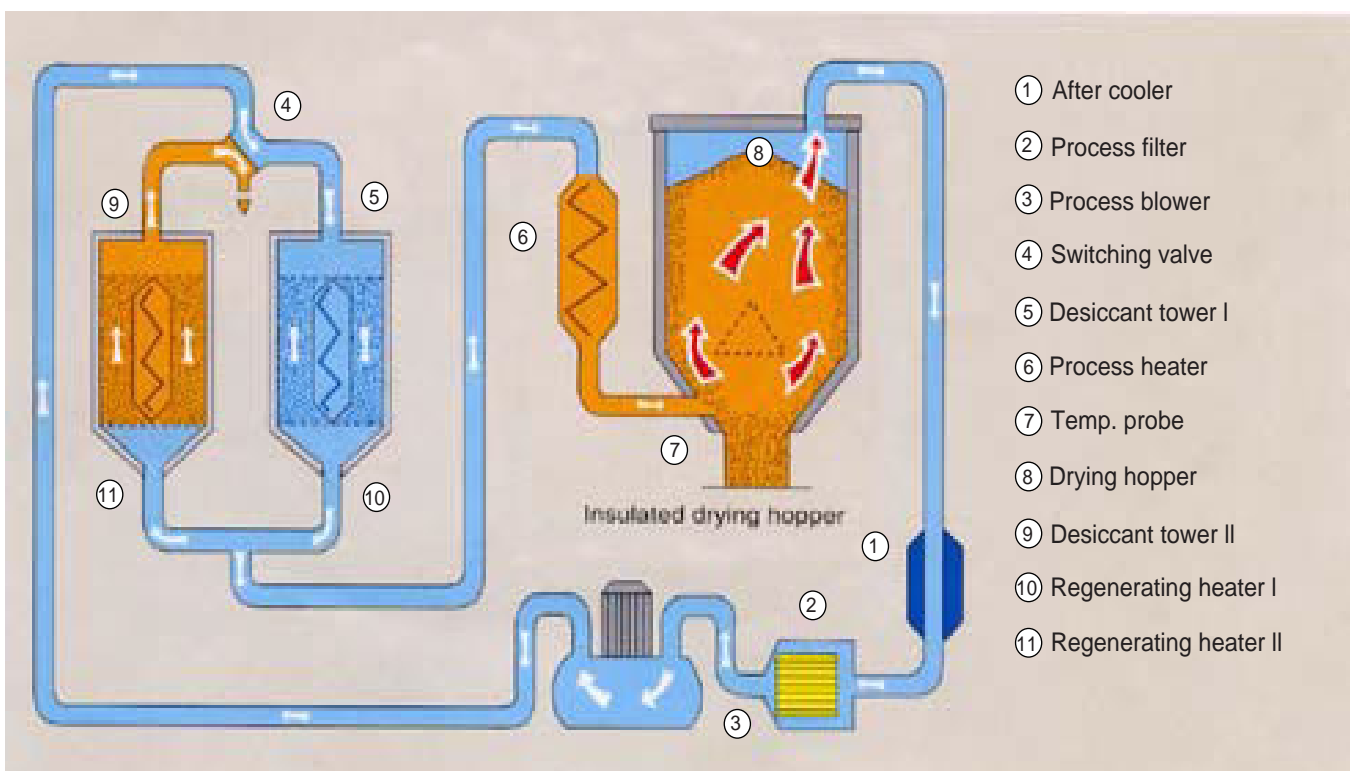


## CDD Series **Twin-desiccant** Compact Dehumidifying Dryers

Machine specifications are about the same as the Twin-desiccant 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 50 and 90 kg/hr respectively hence suitable for polymer drying applications involving particularly small quantities hygroscopic materials. Dried air has a dew-point of up to  $-40^{\circ}\text{C}$ .



### The Dehumidifying Principle



## Drying Capacities Kg/hour

Material	Drying Temp. (°C)	Drying Time <sup>(1)</sup> (hr)	Moisture Content(%)	Specific Heat	Drying Capacity <sup>(2)</sup>	
					CDD60	CDD110
ABS	80	2 - 3	0.2 - 0.6	0.34	16.7	33.3
POM	100	2	0.08 - 0.25	0.35	25	50
PMMA	80	3	0.1 - 0.7	0.35	16.7	33.3
IONOMER	90	3 - 4	1.4	0.55	12.5	25
PA6 / 6.6	75	4 - 6	1.2 - 5	0.40	8.3	16.7
PA11 / 12	75	4 - 5	1.0 - 1.5	0.58	10	20
PC	120	2 - 3	0.3 - 0.36	0.28	16.7	33.3
PU	90	2 - 3	0.2 - 0.9	0.45	16.7	33.3
PBT	130	3 - 4	0.08 - 0.34	0.3 - 0.5	12.5	25
PE	90	1	0.01	0.55	50	100
PET	160	4 - 5	0.08	0.3 - 0.5	10	20
PPO	110	1 - 2	0.13	0.40	25	50
PI	120	2	0.32	0.27	25	50
PP	90	1	0.02	0.46	50	100
PS (GP)	80	1	0.01	0.28	50	100
PSU	120	3 - 4	0.22	0.31	12.5	25
PVC	70	1 - 2	0.1 - 0.4	0.20	25	50
SAN (AS)	80	1 - 2	0.1 - 0.3	0.32	25	50

## Specifications

CDD model		60	110
Dry air flow rate <sup>(2)</sup>	m <sup>3</sup> /hr	60	110
Volume of drying hopper (model)	litre	80 (IDH-50)	160 (IDH-100)
Process heater	kW	3.6	3.6
Blower drive power	W	375	750
Heating capacity	W	800	1000
Lowest dew-point	°C	-40	
In/outlet pipe diameter	inch	2	
Required cooling water flow <sup>(3)</sup>	L/min	4.7	8.5
Cooling capacity <sup>(3)</sup>	Kcal/hr	1390	2550
Voltage (phase)	V	380 ~ 460 (3Ø)	
Width	mm	1330	1430
Depth	mm	720	720
Height	mm	1560	1760
Weight (approx.)	kg	205	252

(1) Base on relative humidity 65% with ambient temperature of 20°C, moisture content after drying can be 0.02% or less.

(2) Capacities are based on 60hz operations.

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