



臺灣杉毅事業有限公司

TAIWAN SANEAST ENTERPRISE, INC.

HD Series Honeycomb Dryer

HD series honeycomb rotary dehumidifying dryer, suitable for hygroscopic plastic materials' drying. The honeycomb rotor is applied for high-efficiency dehumidification and supply dehumidified dry air with a dew point lower than $-40^{\circ}\text{C} \sim -60^{\circ}\text{C}$. The whole system is close looped design. Energy saving and prevent heat loss.

Feature:

- The honeycomb rotors are supplied from SEIBU GIKEN, made in Japan, very high quality.
- P.I.D. temperature controls for high accuracy and stable drying temperature.
- According to different materials' characteristic, different type of dew point models - 40°C , -50°C , -60°C are available.
- Control error alarms.
- Safety functions for over heating, reverse phase protection.
- Low temperature drying will require optional second cooler.
- Blower delay off feature to prevent over heating of heater.



HD Series Honeycomb Dryer

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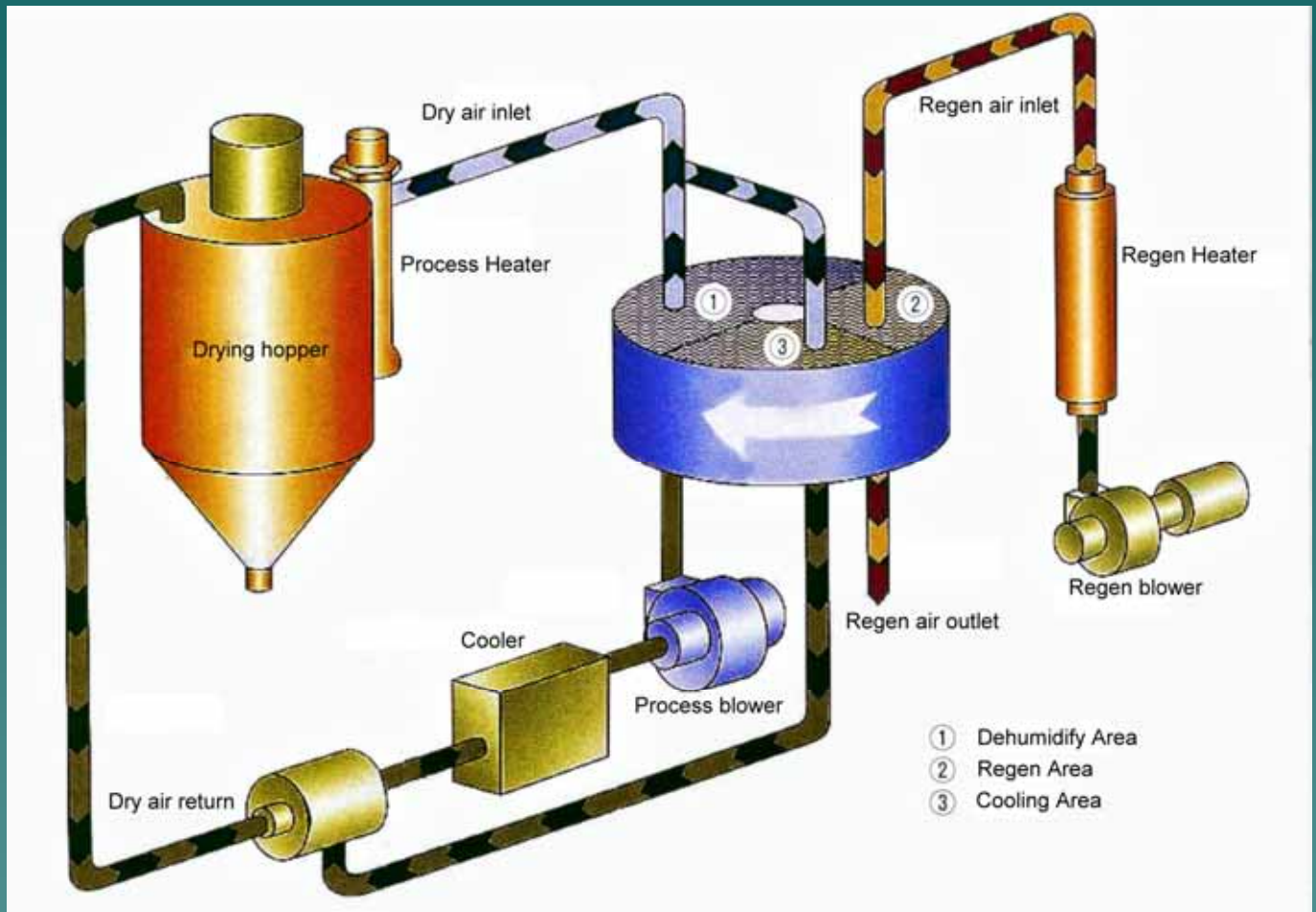
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Honeycomb rotor process flow diagram



Plastics drying data

Material	Drying Temp (°c)	Bulk Density (kg/L)	Residence Time (hr)	Initial Moisture Content (%)	Residual Moisture Content (%)	Airflow Requ. (Nm3/kg/hr)
ABS	80	0.6	2-3	0.2	0.02	1.3 - 1.7
CA	75	0.5	2-3	1.0	0.02	1.8 - 2.5
CAB	75	0.5	2-3	0.8	0.02	2.2 - 2.5
CP	75	0.6	2-3	1.0	0.02	2.1 - 2.5
LCP	150	0.6	4	0.04	0.02	1.3
PA	70-80	0.65	3-6	1.0	0.05	1.7 - 2.2
PBT	120-140	0.7	4	0.3	0.02	1.3 - 1.7
PC	120	0.7	2-3	0.3	0.01	1.3
PE	90**	0.6	1	>0.01	>0.01	1.3 - 1.7
PE (40% black)	90	0.6	3	0.8	0.02	2.2 - 2.4
PEEK	150	0.6	3-4	0.4	0.02	1.3 - 1.7
PEI	150	0.6	3-4	0.25	0.02	1.3
PEN	170	0.85	5	0.01	0.005	1.7 - 2.5
PES	150-180*	0.7	4	0.8	0.02	1.4 - 1.7
PET (inj)	110-120	0.85	3-4	0.04	0.02	1.2
PET (preform/Extrusion)	160-180	0.85	6	0.08	0.005	1.7 - 2.5
PETG	60-70	0.6	4-6	0.5	0.02	1.7
PI	120-140	0.6	3	0.4	0.02	1.1 - 1.3
PMMA	70-100	0.65	3	0.5	0.02-	1.4 - 1.7
POM	95-110	0.6	3	0.2	0.02	1.2 - 1.7
PP	90	0.5	1	>0.01	0.02-	1.3 - 1.7
PPO	110-125	0.5	2	0.13	0.04	1.3 - 1.5
PPS	140-150	0.6	3-4	0.1	0.02	1.3
PS	80**	0.5	1	>0.01	0.02	1.1 - 1.3
PSU	120-170*	0.65	4	0.3	0.02	1.3 - 1.4
PUR	89-90	0.7	3	0.2	0.02	1.8 - 2.0
PVC	70**	0.5	1	0.1	0.02	1.1 - 1.5
SAN	80	0.5	2-3	0.1	0.05	1.2 - 1.5
SB	80	0.6	2	0.2	0.05	1.2 - 1.5
TPE	105	0.7	3	0.1	0.02	2.1



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Specifications :

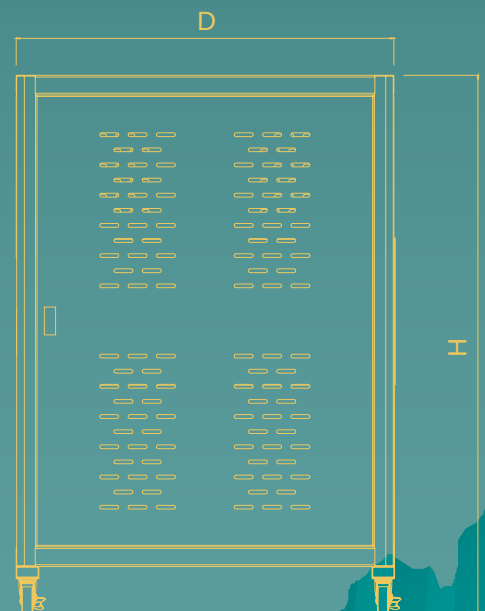
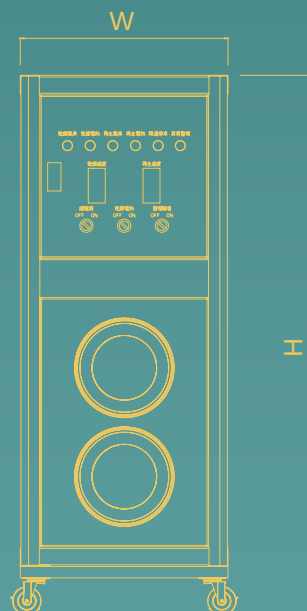
Model	HD-050	HD-100	HD-200	HD-300	HD-400	HD-700	HD-1000
Process air flow (M ³ /Hr)	50	100	200	300	400	700	1000
Process heater (KW)	3	6	10	10	15	25	35
Process motor (KW)	0.5	0.85	1.9	2.6	3.7	6.3	7.5
Regen heater (KW)	2	4.5	4.5	6	8.5	15	18
Regen motor (KW)	0.2	0.2	0.5	0.85	0.85	2.6	3.7
Process DUCT OD (mm)	38.1	63.5	63.5	76.2	88.9	114.3	127
Regen DUCT OD (mm)	38.1	50.8	50.8	50.8	63.5	76.2	88.9
H (mm)	1455	1455	1455	1755	1755	2055	2055
W (mm)	550	550	550	750	750	1150	1150
D (mm)	800	800	1000	1150	1150	1500	1500
Weight (KG)	180	200	250	300	350	500	630

Standard Power supply is 220V/3P/60Hz. If other specifications required, please advice before order.

Standard process temperature is 120°C. Process temperature over 120°C is optional.

Options :

- Touch Panel
- 170°C Process temp
- Dew point display
- Heater on hopper
- Cyclone filter
- Auto-clean filter
- Plasticizer Filter
- Secondary Cooler



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TAIWAN SANEAST ENTERPRISE, INC.

STAINLESS STEEL DRYING HOPPER

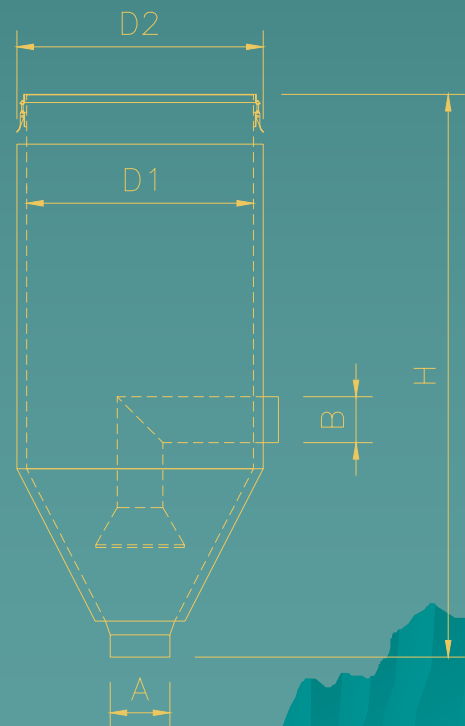
Specifications :

Model	NPH-50	NPH-100	NPH-200	NPH-300	NPH-400	NPH-800	NPH-1000
Hopper Capacity (KG)	50	100	200	300	400	800	1000
D1 ϕ (mm)	420	545	650	700	860	880	960
D2 ϕ (mm)	470	595	700	750	910	930	1010
H (mm)	1200	1400	1750	2000	2150	3000	3300
A Material outlet (ϕ mm)	50.8	50.8	63.5	76.5	76.5	101.6	101.6
B Process air duct (ϕ mm)	38.1	63.5	63.5	76.2	88.9	114.3	127
Weight (KG)	65	115	150	165	195	300	350

- Hopper Capacity base on material bulk density 0.65g/cm³.
- If special specifications required, please advice before order.
- Hopper interior finish 200 mesh polished.
- If level switch mounting hole or flange required, please advice before order.



NPH Series Drying Hopper



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