

命名原则 NAMING PRINCIPLE

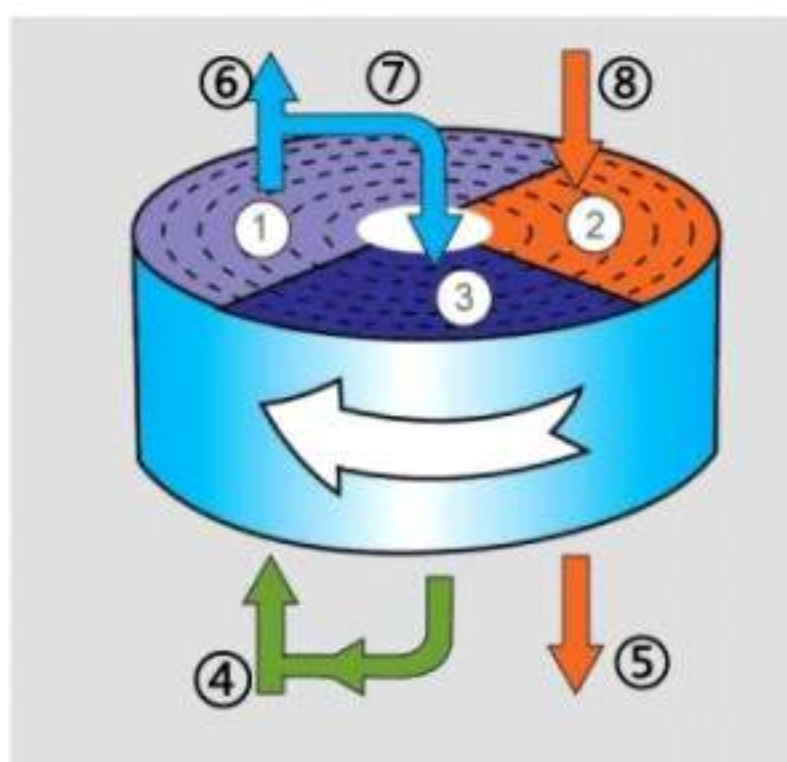


产品特点 FEATURES

本系列采用微电脑P. I. D. 温控系统，控温精准。
采用日本原装进口露佳斯牌全分子筛蜂巢除湿转轮，除湿效果更好更稳定。
加大型配备可拆卸式冷却器，维护保养方便，回风温度更低。
高密度回风过滤器，确保蜂巢转轮不受原料粉尘污染。
除湿风出风温度显示功能。
可选配高效除油滤清器，除油效果高达99%，有效提升产品品质。
除湿后空气露点可低至-40℃以下。

P.I.D temperature controller to accurately control regenerative temperature.
Adopt Japan Nichias molecular sieve honeycomb rotor which ensures good stable dehumidifying effect.
Detachable cooler is equipped for over-sized model, easy for maintenance and keeps a low return air temperature.
High density return air filter ensures no contamination to the honeycomb.
Temperature indication function for dehumidified outlet air temperature.
Efficient oil filter is optional, 99% of oil can be removed, thus product quality can be greatly improved.
Dew point of air after dehumidified can be lower than -40℃.

转轮工作原理 Honeycomb Rotor Working Principle



1. 除湿区 Dehumidifying Zone
2. 再生区 Regenerative Zone
3. 冷却区 Cooling Zone
4. 除湿前的风 Air Before Dehumidified
5. 再生排风 Regenerative Air Exhaust
6. 除湿后的风 Air After Dehumidified
7. 冷风 Cooling Air
8. 再生热风 Regenerative Hot Air

选配件 OPTIONS

露点计、干燥电热与温控器、干燥料桶、耐热风管、旋风集尘器、滤油器。

Dew-point monitor, drying heater and temperature controller, drying hopper, Heat-resistant air pipe, cyclone dust separator, oil filter.

蜂巢转轮除湿机

"ORD" Orste Rotary Honeycomb Dehumidifiers

应用范围 APPLICATION

ORD-H 系列蜂巢转轮除湿机主要用来处理吸湿性较强的工程塑胶原料及回收料以进行高效除湿作业。在理想状态下，蜂巢转轮处理后的空气露点可低至-40℃以下，最大干燥风量可达到4000m³/hr。

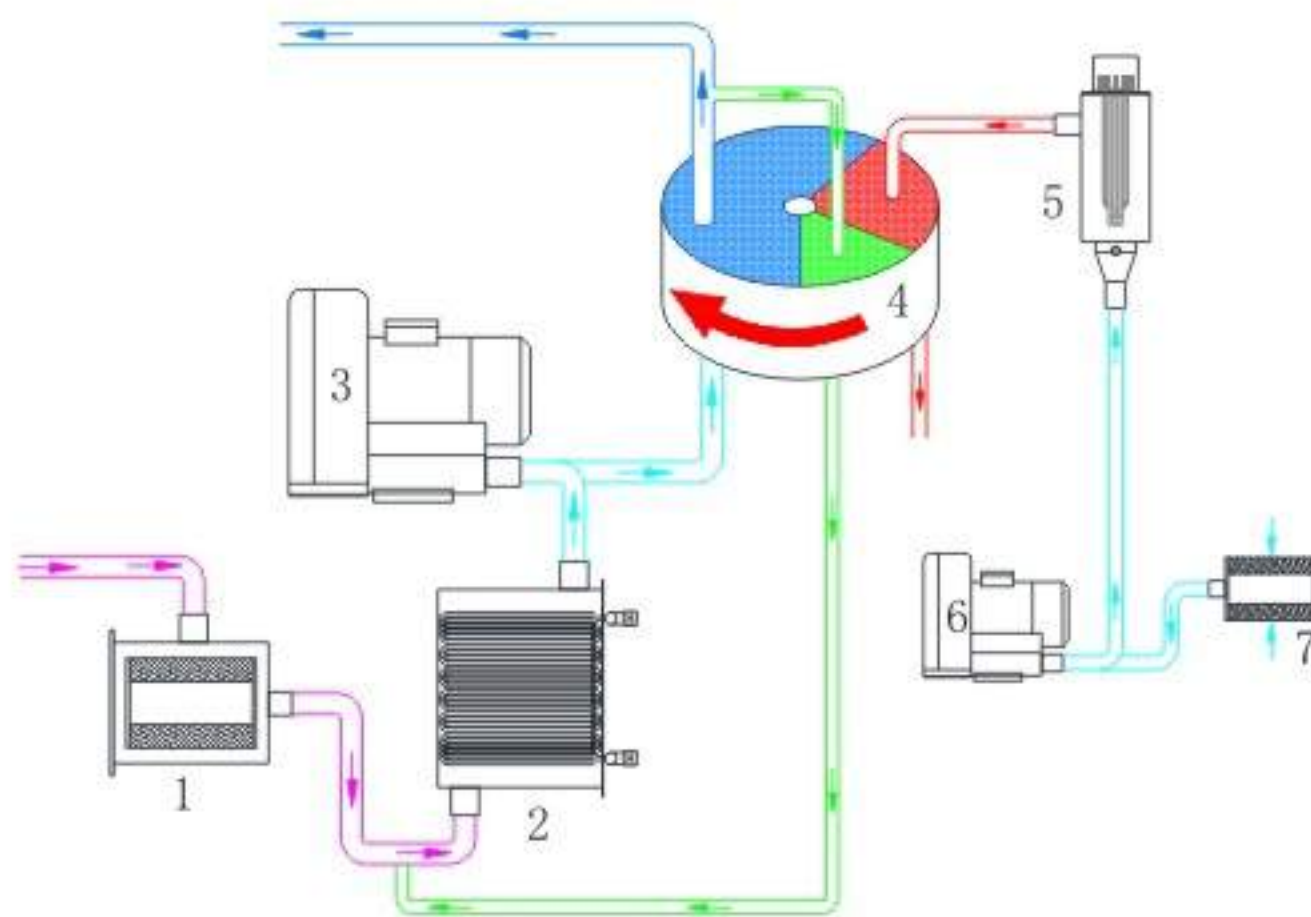
ORD-H series rotary honeycomb dehumidifiers are mainly used to dry hygroscopic engineering plastics or regrind materials. Under deal conditions, the dew-point of dehumidified dry air can be lower than -40℃, the largest of which can provide dry air up to a quantity of 4,000 m³/hr.

什么是“蜂巢转轮”？ WHAT IS "HONEYCOMB ROTOR"?

蜂巢转轮的主体以由陶瓷纤维及有机添加剂制成之陶质蜂巢构成，再以分子筛及矽胶为基本材料经高温结晶烧结，使之表面坚硬并强力吸附于蜂巢内部，故不会如同一般筒装或转盘式分子因老化后产生粉粒随干燥风吹入干燥桶污染塑胶原料，而且蜂巢转轮之寿命无限制又可以清洗不像一般分子易于饱和或老化必须经常更换，潮湿回风穿过蜂巢转轮的无数小孔时水份将迅速被分子筛吸收，故它当离蜂巢时已被完全除湿并达到非常低之露点的干燥风，再生与除湿之原理相似而且同时进行，只是再生风之流向相反。

The main part of honeycomb rotor is made by ceramic fiber and organic additives, sintered under high temperature with molecular sieve or silica gel as basic material to bond together with inside of honeycomb to form the honeycomb-like structure. Unlike common desiccant or rotary molecular sieve, then, when aging, will produce dust, followed by process air to drying hopper, to pollute plastic material. Honeycomb rotor offers unlimited long service life and can be cleaned and not like usual molecular sieve which is easy to get saturated or requiring regular replacement. The moisture of return air is quickly absorbed by molecular sieves when passing through numerous holes within honeycomb rotor. So when coming out of rotor, can form low dew-point air. Regenerating and dehumidifying have similar principle and run simultaneously. The only difference is that the two process winds are in opposite direction.

工作原理 FUNCTIONAL SCHEME



- 1. 回风过滤器 Return Air Filter
- 2. 冷却器 Cooler
- 3. 干燥风机 Drying Blower
- 4. 蜂巢转轮 Honeycomb Rotor
- 5. 再生电热 Regenerative Heater
- 6. 再生风机 Regenerative Blower
- 7. 再生过滤器 Regenerative Filter



霓佳斯蜂巢转轮
Nichias Honeycomb Rotor

干燥能力规格表 DRYING CAPACITY

原料 Material	干燥温度 Drying Temp. (°C)	干燥时间 Drying Time (hr)	比热 Specific Heat (kg/kg. °C)	堆积密度 Bulk Density (kg/L)	除湿前含水率 Moisture Content before Drying (%)	除湿后含水率 Moisture Content after Drying (%)	干燥能力 Drying Capacity (kg/hr)												
							ORD-60H	80H	120H	150H	200H	300H	400H	700H	1000H	1500H	2000H	3000H	4000H
ABS	80	2-3	0.34	0.6	0.3	0.02	18	27	35	71	105	180	210	355	425	710	1065	1500	1600
CA	75	2-3	0.5	0.5	1	0.02	15	22	30	60	90	150	180	295	355	590	885	1200	1330
CAB	75	2-3	0.5	0.5	0.8	0.02	15	22	30	60	90	150	180	295	355	590	885	1200	1330
CP	75	2-3	0.6	0.6	1	0.02	18	27	35	71	106	180	210	355	425	710	1060	1500	1600
LCP	150	4	0.6	0.6	0.04	0.02	13	20	27	55	80	135	160	265	320	530	800	1150	1200
POM	100	2	0.35	0.6	0.2	0.02	27	40	53	105	160	265	320	530	640	1060	1600	1800	2400
PMMA	80	3	0.35	0.65	0.5	0.02	19	29	38	77	115	192	230	383	460	767	1150	1530	1730
IONOMER	90	3-4	0.55	0.5	0.1	0.04	11	17	22	44	66	111	133	220	265	442	663	750	1000
PA6/6.6/6.10	75	4-6	0.4	0.65	1	0.05	10	14	19	38	58	96	115	192	230	383	575	960	1040
PA11	75	4-5	0.58	0.65	1	0.05	12	17	23	46	69	115	138	230	275	460	690	780	1150
PA12	75	4-5	0.28	0.65	1	0.05	12	17	23	46	69	115	138	230	275	460	690	780	1150
PC	120	2-3	0.28	0.7	0.3	0.01	21	31	41	83	124	206	250	413	495	826	1238	1400	1860
PU	90	2-3	0.45	0.65	0.3	0.02	19	29	38	77	115	190	230	383	460	767	1150	1530	2080
PBT	130	3-4	0.3-0.5	0.7	0.2	0.02	15	23	31	62	93	155	186	310	372	620	930	1100	1600
PE	90	1	0.55	0.6	0.01	<0.01	53	80	106	212	318	531	637	1062	1275	2125	3185	3600	4800
PEI	150	3-4	0.6	0.6	0.25	0.02	13	20	27	53	80	133	160	265	320	530	800	1030	1370
PET	160	4-6	0.3-0.5	0.85	0.2	0.05	13	19	25	50	75	125	150	250	300	500	750	1150	1360
PETG	70	3-4	0.6	0.6	0.5	0.02	13	20	27	53	80	133	160	265	320	530	800	1030	1370
PEN	170	5	0.85	0.85	0.1	0.05	15	23	30	60	90	150	180	300	360	600	900	1150	1360
PES	150	4	0.7	0.7	0.8	0.02	15	23	30	60	90	150	180	300	360	600	900	1050	1400
PMMA	80	3	0.65	0.65	0.5	0.02	19	29	28	77	115	190	230	385	460	765	1150	1530	1730
PPO	110	1-2	0.4	0.5	0.1	0.04	22	33	44	88	133	220	265	440	530	885	1330	1730	2660
PPS	150	3-4	0.6	0.6	0.1	0.02	13	20	27	53	80	133	160	265	320	530	800	1030	1370
PI	120	2	0.27	0.6	0.4	0.02	27	40	53	105	160	265	320	530	640	1060	1600	1800	2400
PP	90	1	0.46	0.5	0.1	0.02	44	66	88	180	265	442	530	885	1060	1770	2655	3500	4000
PS(GP)	80	1	0.28	0.5	0.1	0.02	44	66	88	180	265	442	531	885	1062	1770	2655	3500	4000
PSU	120	3-4	0.31	0.65	0.3	0.02	14	22	29	60	85	145	173	290	345	575	865	1300	1485
PVC	70	1-2	0.2	0.5	0.1	0.02	22	33	44	90	135	220	265	442	530	885	1330	1730	2660
SAN(AS)	80	1-2	0.32	0.5	0.1	0.05	22	33	44	90	135	220	265	442	530	885	1330	1730	2660
TPE	110	3	0.7	0.7	0.1	0.02	20	30	40	85	125	205	250	413	495	826	1238	1650	1860

注 Notes:

(1) 使用独立的干燥料斗。

Applied with separated drying hopper.

(2) 在20°C的大气温度及65%的相对湿度下，干燥后其水份含量低于0.005%。

Moisture content lower than 0.005% after drying when in 20°C ambient temperature and 65% relative humidity.

中央供料系统
Central Conveying System

除湿干燥
Drying & Dehumidifying

供料输送
Feeding & Conveying

混合拌料
Dosing & Mixing

冷热交换
Heating & Cooling

粉碎回收
Granulating & Recycling

蜂巢转轮除湿机

"ORD" Orste Rotary Honeycomb Dehumidifiers

技术参数 PARAMETERS

机型 Model	ORD-60H	ORD-80H	ORD-120H	ORD-150H	ORD-200H	ORD-300H	ORD-400H	ORD-500H	ORD-700H	ORD-1000H	ORD-1500H	ORD-2000H	ORD-3000H	ORD-4000H	
再生电热功率 Rege. Heater (kw)	2.5	2.5	2.5	4	6	8	8	12	12	15	20	20	32	40	
再生风车功率 Rege. Blower (kw)	0.2	0.2	0.2	0.4	0.4	0.7	0.7	1.3	1.6	1.6	2.2	3	2.2*2	3*2	
干燥电热功率 Process Heater (kw)	2.5	4	6	8	12	15	18	21	24	32	58	80	96	128	
干燥风车功率 Process Blower (kw)	0.4	0.7	0.7	1.3	1.3	3	4	5.5	5.5	8.5	12.5	18.5	12.5*2	15*2	
干燥风量 Drying Air Quantity (m ³ /hr)	60	80	120	150	200	300	400	500	700	1000	1500	2000	3000	4000	
出入口之管径 Pipe Dia. (inch)	2"	2"	2.5"	2.5"	2.5"	3"	3"	4"	5"	5"	6"	8"	8"	12"	
外型 Dimension	H (mm)	1260	1360	1360	1560	1560	1745	1745	1935	1935	2145	2060	2060	2240	2060
	W (mm)	480	530	530	660	660	700	700	900	900	1300	1410	1410	2035	2750
	D (mm)	755	820	820	1050	1050	1255	1255	1380	1380	1550	2150	2150	2160	2250
重量 Weight (kg)	145	170	220	260	285	320	330	470	480	700	1010	1300	1600	2200	

产品规格若有变更，恕不另行通知。

We reserve the right to change parameters without prior notice.

注 Notes:

(1) 可选配露点仪，随时监控露点，机型后加注 "D"。

For models that are equipped with dew-point monitor, add "D" at model behind.

(2) "*" 表示干燥电热为选配，需搭配光学级料桶使用。

"*" stands for drying heater is optional for working with "optical" hoppers.

(3) 机器电压规格：3Φ, 400V, 50Hz。

Power: 3Φ, 230/400/460/575VAC, 50/60Hz.



奥诗德旋风集尘器
Orste Cyclone Dust Collector



维萨拉露点仪
Vaisala Dew Point Monitor