

Honeycomb Resin Dryer

BHD series



Bry-Air®
Drying • Conveying • Blending

A GIANT LEAP IN RESIN DRYING

25% More Energy Saving with Honeycomb Technology

Bry-Air® Honeycomb Resin Dryers with **BRYWHEEL**™

The Bry-Air Honeycomb Resin Dryer ensures better control over dewpoint and temperature. Bry-Air Resin Dryers incorporates BryWheel™, a desiccant rotor specially crafted for very low dewpoint upto (-) 65°C.

The powder coated, CNC fabricated line is light weight, simple and easy to operate and more energy efficient. The dryer is mounted on a sturdy frame with slide out side panels for problem free maintenance.



Honeycomb Resin Dryer



Bry-Air Systems
serving the plastic industry since 1978

Our accumulated experience of over half a century in the plastics industry enables us to provide resin dryers and auxiliary equipment to meet the exacting needs of today's plastics processors. At Bry-Air, continuous efforts to improve designs, machinery and production methods are integrated into the everyday work, so that everything we make increases the efficiency, productivity and profits of our customers.

Bry-Air's experience in the industry is job proven, supported by years of accumulated experience, worldwide. Everything Bry-Air manufactures, makes plastic resins handling easier, and has a positive impact on your company's saving and thus, profitability.



Simple & Easy to Operate

The Bry-Air Resin Dryer with BryWheel™ is specially crafted to ensure better control on dewpoint and temperature. Moisture laden air enters the unit through the process inlet and passes through the BryWheel™ where the moisture is adsorbed.

The moisture is, hence removed through a process of continuous physical adsorption. The dry, dehumidified air is then delivered to the conditioned area through the process outlet. The rotating desiccant wheel / rotor moves into the reactivation segment well before “saturation” where the moisture is driven off by the hot air blown through the reactivation segment of the rotor.

The continuously revolving rotor provides extremely stable temperature and dewpoint control.

The Rotor Technology

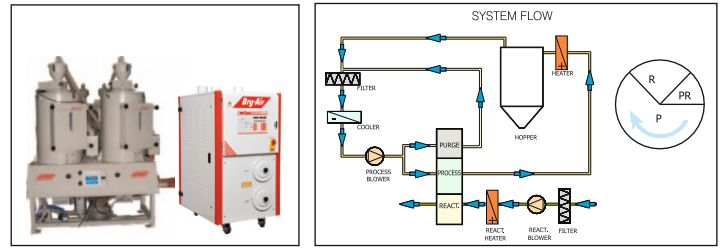
Minimizes energy consumption by reducing the structural mass, leading to less energy wasted.

- More energy savings, reduced energy costs
- The desiccant rotor takes lesser time to regenerate i.e. it heats and cools comparatively in a lesser time than alternate drying technologies thus saving energy
- Lower Downtime, the rotor has fewer moving parts and thus, less prone to breakdowns

Unlimited Options

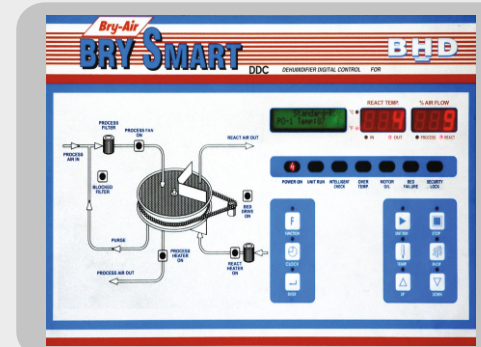
The BHD series dryers are ideal for a stand alone, single station operation as well as multi station centralized installation.

- Castor wheel mounted cabinet for easy movement
- Versatile, easy to package and handle
- Small footprints; low volume/ weight per CMH



BrySmart® (DDC) Control

- Digital display of status, faults, warning and temperatures
- Dual thermostat protection for high process and reactivation temperature
- Cool down thermostat to prevent temperature build-up and safe shut down
- Suitable for continuous operation
- Bed failure detection to provide extra safety for rotor, drive motor and react heater



The Power of BRYWHEEL™

The Honeycomb BryWheel™ structure combines the advantages of :

- Maximum surface area for drying
- Higher efficiency
- Light weight
- Amazing structural strength
- Lower dewpoint
- Lower drying cost



Make the Future, Your Present !

Technical Specification For BHD - series

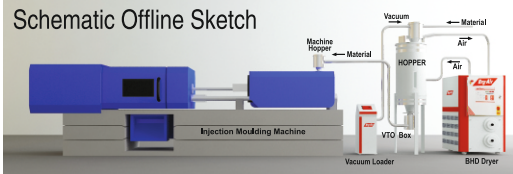
MODEL	Process Air Inflow CMH	Hose Connection (in)	Cooling Coil Water Connection	Cooling Coil Water Flow In LPM	Outlet Temp. Range In (°C)	Process Blower (KW)	React Blower (KW)	Bed Drive Motor (KW)	Process HTR (KW)		React Heater (KW)	Dimensions in (mm)			415/3/50 Hz Electrical Connection Full Load (amp)	Shipping Weight (kg)
									Std.	High Heat		W	D	H		
*BHD-30	30	2	3/8"	2.5	80-190	0.18	0.18	0.006	0.5	1.5	0.75	550	640	1300	16	170
*BHD-60	60	2	3/8"	5	80-190	0.40	0.18	0.006	1.0	2.75	1.50	550	640	1300	22	180
BHD-120	120	3	1/2"	10	80-190	0.9	0.40	0.006	2.1	6.0	2.75	820	1080	1475	24	330
BHD-170	170	4	1/2"	13	80-190	1.75	0.40	0.006	3.0	7.5	3.75	820	1080	1475	20	340
BHD-225	225	4	1/2"	17	80-190	2.20	0.40	0.006	3.9	10.0	5.00	820	1080	1475	28	350
BHD-300	300	4	1/2"	22	80-190	5.50	0.75	0.006	5.2	13.5	6.75	820	1080	1475	43	410
BHD-400	400	6	1/2"	31	80-190	5.50	0.90	0.025	7.0	18.0	9.00	1080	1300	1730	52	555
BHD-500	500	6	1/2"	38	80-190	9.00	1.75	0.025	8.7	22.5	11.25	1080	1300	1730	70	585
BHD-750	750	6	1/2"	55	80-190	9.00	2.20	0.025	13.1	30.0	18.00	1080	1300	1730	93	620

* Indicates unit available in 230/1/50Hz only

Technical Specification For BHD (L)-series

MODEL	Process Air Inflow CMH	Hose Connection (in)	Cooling Coil Water Connection	Cooling Coil Water Flow In LPM	Outlet Temp. Range IN (°C)	Process Blower (KW)	React Blower (KW)	Bed Drive Motor (KW)	Process HTR (KW)		React Heater (KW)	Dimensions in (mm)			415/3/50 Hz Electrical Connection Full Load (amp)	Shipping Weight (kg)
									Std.	High Heat		W	D	H		
BHD-1000	1000	6	1 1/4"	75	80-190	5.60	0.75	0.040	17.5	45	22.5	1645	1945	2180	107	865
BHD-1250	1250	10	1 1/4"	92	80-190	5.60	1.1	0.040	21.8	55	27.5	1645	1945	2180	129	875
BHD-1750	1750	10	1 1/4"	134	80-190	7.50	1.1	0.040	30.6	79.2	38.5	1645	1945	2180	186	890
BHD-2500	2500	12	-	-	80-190	9.30	1.50	0.040	43.7	105.6	54.0	-	-	-	-	--
BHD-3500	3500	12	-	-	80-190	15.00	2.20	0.090	61.2	150	77.0	-	-	-	-	--

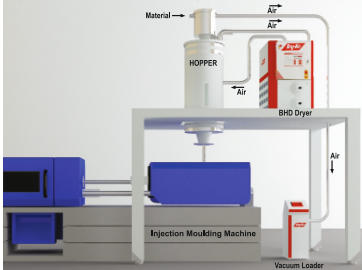
Schematic Offline Sketch



Option Availability

DESCRIPTION	BHD-30	BHD-60	BHD-80	BHD-120	BHD-170	BHD-225	BHD-300	BHD-400	BHD-500	BHD-750	BHD-1000	BHD-1250	BHD-1750	BHD-2500	BHD-3500
Tower Light	← AVAILABLE →														
Dew Point Meter dew point controlled reactivation	← AVAILABLE →														
Material Saver Function	← AVAILABLE →														
Silicon Flexible House For High Heat Application	← AVAILABLE →														

Schematic Online Sketch



Drying Rates (Kg./ Hr.)

RESIN TYPE	DRYING TEMP.(°C)	TIME HOURS	BHD-30	BHD-60	BHD-120	BHD-170	BHD-225	BHD-300	BHD-400	BHD-500	BHD-750	BHD-1000	BHD-1250	BHD-1750	BHD-2500	BHD-3500
ABS	80-85	2-3	17	34	68	97	128	171	229	286	429	571	714	1000	1430	2000
PA6/6	70-90	5-6	12	24	48	68	90	120	160	200	300	400	500	700	1000	1400
PC	120	3-4	16	33	67	94	125	167	222	278	417	556	694	972	1390	1950
PET	160-180	4-5	13	27	53	76	100	133	178	222	333	444	556	778	1111	1556
PMMA	80	3-4	13	26	52	74	98	130	173	217	326	434	543	760	1086	1520
PPO	90-110	2-3	15	30	60	85	113	150	200	250	375	500	625	875	1250	1750
SAN	80	2-3	16	32	64	91	121	162	216	270	405	540	675	945	1351	1890
PBT	120-135	3-4	15	30	60	85	113	150	200	250	375	500	625	875	1250	1750
PLL/PSU	90-100	3-4	16	32	64	91	121	162	216	270	405	540	675	945	1351	1890

ALL DATA SUBJECT TO CHANGE WITHOUT NOTICE

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