Innovative Air Solutions

TECHNICAL SPECIFICATION

Bulletin	: DRI-HRW-010-3
Effective	: Mar 14, 2008
Supersedes	:
Dated	:

***DESICCANT ROTORS INTERNATIONAL** PVT. LTD.*
ARCTIC INDIA HOUSE, 20, RAJPUR ROAD, DELHI - 110054 (INDIA)
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HEAT RECOVERY WHEEL
PBT SERIES

PAINTBOOTH WHEEL (HRW 2000-5000) COMES WITH ECO FRESH OR
ALL PBT SERIES UNIT HAVE THE FOLLOWING OUTSTANDING FEATURES

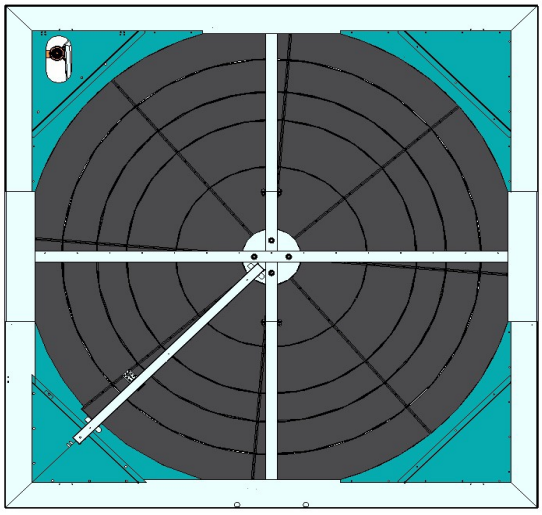
High efficiency and reliability

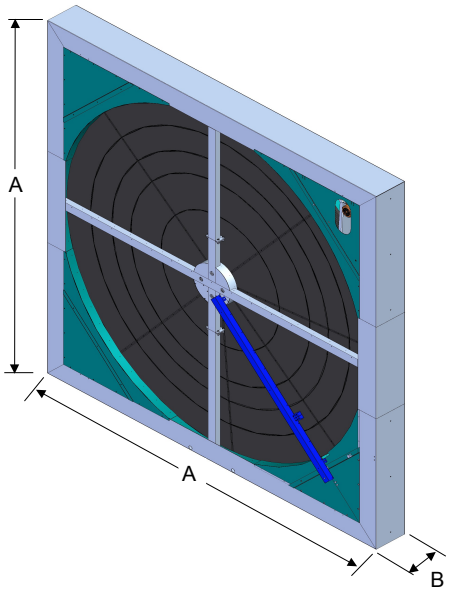
* Fully Stainless Steel Casing.
* Having Sectorized Wheel for ease of Installation and maintenance.
* Designed at slow rotor speed around 10-20 rpm.
* Constructed with 3 pieces design for easy installation at the site.
* Having self adjusting seal around the face and radial circumfrence for steady & continuous tension.
* ** Comes along with the high pressure cleaning system for media cleaning.
* Designed with Inner Bearing with relubrication.
* The surface of the wheel is highly polished to ensure that the vertical runout does not exceed ±1mm for every 1 meter diameter.
* The rotor is made of alternate flat and corrugated aluminium foil of very uniform pitch and height.
* Rotor face edges are hardend which ensures long life of the media.
* Rotor depth 200mm.

POWER REQUIREMENT

WHEEL DRIVE	
2000 - 3000	1.0 KW, 415V/3PH/50HZ
3200 - 3000	1.5 KW, 415V/3PH/50HZ
2000 - 3000	1.5 KW, 415V/3PH/50HZ

FOR CLEANING SYSTEM	
2000 - 3000	0.09 KW, 415V/3PH/50HZ
3200 - 3000	0.09 KW, 415V/3PH/50HZ
2000 - 3000	0.09 KW, 415V/3PH/50HZ





OPTIONS AVAILABLE

WHEEL CONSTRUCTION

SEGMENTED	PBT 2000-5000

ALL DATA SUBJECT TO CHANGE WITHOUT NOTICE

Heat Recovery Wheel - Performance Data
PBT SERIES

Velocity	m/s	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	Dim.	Dim.	Wt.
	FPM	200	300	400	500	600	700	800	900	1000	1100	Height	Depth	Kgs
Effectiveness	Eff. %	83	80	78	75	73	71	69	66	64	61	Inches	Inches	Lbs
Pressure Drop	Pa	74	85	102	115	130	147	170	195	217	240			
	in. w.c	0.29	0.33	0.40	0.45	0.51	0.58	0.67	0.77	0.85	0.95			
Model Number	Air Volume													
2000	CMH	4828	7242	9656	12070	14484	16898	19312	21726	24141	26555	2200	390	680
	CFM	2841	4262	5683	7103	8524	9945	11365	12786	14207	15627	86.6	15.4	1499
2150	CMH	5660	8490	11320	14150	16980	19810	22640	25470	28300	31130	2400	390	700
	CFM	3331	4996	6662	8327	9993	11658	13323	14989	16654	18320	94.5	15.4	1543
2300	CMH	6556	9835	13113	16391	19669	22947	26226	29504	32782	36060	2500	390	730
	CFM	3858	5788	7717	9646	11575	13505	15434	17363	19292	21221	98.4	15.4	1609
2400	CMH	7190	10785	14380	17975	21570	25165	28760	32355	35950	39545	2640	390	750
	CFM	4231	6347	8463	10578	12694	14809	16925	19041	21156	23272	103.9	15.4	1653
2500	CMH	7852	11778	15704	19631	23557	27483	31409	35335	39261	43187	2700	390	820
	CFM	4621	6932	9242	11553	13863	16174	18484	20795	23105	25416	106.3	15.4	1807
2650	CMH	8900	13349	17799	22249	26699	31148	35598	40048	44498	48947	2900	390	880
	CFM	5237	7856	10475	13093	15712	18331	20949	23568	26187	28805	114.2	15.4	1940
2800	CMH	10011	15017	20023	25029	30034	35040	40046	45051	50057	55063	3000	430	960
	CFM	5892	8838	11783	14729	17675	20621	23567	26513	29459	32405	118.1	16.9	2116
2900	CMH	10789	16183	21577	26972	32366	37760	43155	48549	53943	59338	3100	430	1040
	CFM	6349	9524	12698	15873	19047	22222	25396	28571	31746	34920	122.0	16.9	2292
3000	CMH	11595	17392	23189	28986	34784	40581	46378	52176	57973	63770	3200	430	1150
	CFM	6823	10235	13647	17059	20470	23882	27294	30705	34117	37529	126.0	16.9	2535
3200	CMH	13293	19939	26585	33232	39878	46524	53170	59817	66463	73109	3400	430	1255
	CFM	7823	11734	15645	19557	23468	27379	31291	35202	39114	43025	133.9	16.9	2766
3400	CMH	15106	22658	0	37764	45317	52870	60422	67975	75528	83081	3600	430	1365
	CFM	8890	13334	0	22224	26669	31114	35559	40003	44448	48893	141.7	16.9	3008
3500	CMH	16055	24083	32110	40138	48165	56193	64221	72248	80276	88303	3660	430	1465
	CFM	9448	14173	18897	23621	28345	33070	37794	42518	47242	51967	144.1	16.9	3229
3600	CMH	17033	25550	34067	42584	51100	59617	68134	76651	85167	93684	3800	430	1580
	CFM	10024	15036	20048	25060	30073	35085	40097	45109	50121	55133	149.6	16.9	3482
3800	CMH	18861	28291	37721	47152	56582	66012	75443	84873	94303	103733	4000	430	1690
	CFM	11099	16649	22199	27749	33298	38848	44398	49948	55497	61047	157.5	16.9	3725
4000	CMH	21018	31528	42037	52546	63055	73564	84073	94583	105092	115601	4300	470	1985
	CFM	12369	18554	24739	30923	37108	43293	49477	55662	61846	68031	169.3	18.5	4375
4200	CMH	23291	34936	46582	58227	69873	81518	93164	104809	116455	128100	4500	470	2275
	CFM	13707	20560	27413	34267	41120	47974	54827	61680	68534	75387	177.2	18.5	5014
4400	CMH	24817	37225	49633	62042	74450	86858	99267	111675	124084	136492	4700	470	2545
	CFM	14605	21907	29209	36512	43814	51116	58419	65721	73023	80325	185.0	18.5	5609
4600	CMH	27274	40911	54548	68185	81821	95458	109095	122732	136369	150006	4900	470	2810
	CFM	16051	24076	32101	40127	48152	56177	64203	72228	80253	88279	192.9	18.5	6193
4800	CMH	29846	44769	59692	74615	89538	104461	119383	134306	149229	164152	5100	470	2980
	CFM	17564	26346	35129	43911	52693	61475	70257	79039	87821	96604	200.8	18.5	6568
5000	CMH	32533	48799	65066	81332	97598	113865	130131	146398	162664	178930	5400	470	3150
	CFM	19146	28718	38291	47864	57437	67009	76582	86155	95728	105301	212.6	18.5	6943