

DESICCANT ROTORS INTERNATIONAL PVT. LTD.

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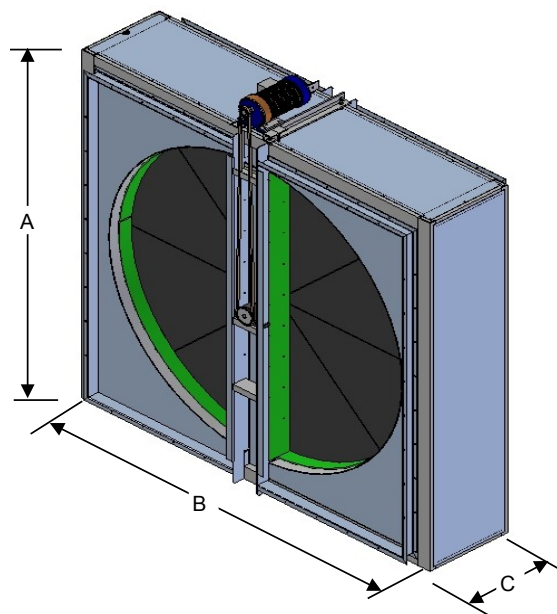
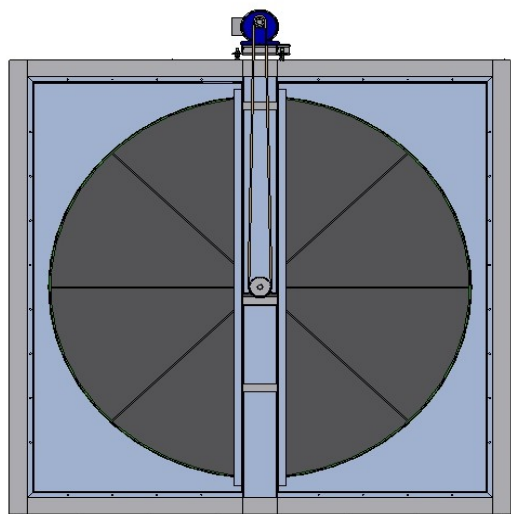
HEAT RECOVERY WHEEL (HTW - M & H SERIES) FOR HIGH TEMPERATURE APPLICATION

HIGH TEMPERATURE WHEEL (HTW) COMES WITH **ECO-FRESH** ROTOR
ALL HIGH TEMPERATURE UNIT HAVE THE FOLLOWING OUTSTANDING FEATURES

High efficiency and reliability

- * Robust, Welded construction steel casing.
- * Double skin insulated casing.
- * Designed for very slow rotational speed of around 8-10 RPM
- * Heat-stabilised, High temperature resistant external bearings
- * Condensate trap.
- * Factory Assembled.
- * Temperature-resistant sealing.
- * Smooth surface to ensure minimum vertical runout
- * The rotor is made of alternate flat and corrugated foil of uniform pitch and height.
- * Rotor depth 200mm.
- * Substrate - Stainless Steel or special alloy steel foil.
- * Drive motor - Class F, Constant speed.
- * Drive mechanism - Chain drive.

Installation : Only vertical for horizontal air flow



Sizes (M Series upto 300°C) 14 Model HTW 800 to HTW 3400
 Sizes (H Series upto 500°C) 09 Model HTW 1000 to HTW 2600

OPTIONS AVAILABLE

Painted/Galvanised casing	On request
Manual Cleaning	On request
Automatic Cleaning System	On request
Split Casing	Consult Factory

POWER REQUIREMENT

WHEEL DRIVE		
800 - 1600	1/2 HP	0.37 KW, 415V/3PH/50HZ
1800 - 2200	1 HP	0.75 KW, 415V/3PH/50HZ
2400 - 3400	1.5 HP	1.1 KW, 415V/3PH/50HZ

ALL DATA SUBJECT TO CHANGE WITHOUT NOTICE

Performance Data -High Temperature Wheel (M Series upto 300°C) Flute Height 3.0mm

Velocity	M/S	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	Dim. Height Inches A & B	Dim. Depth Inches C	Wt. Kgs Lbs
	FPM	200	300	400	500	600	700	800	900	1000			
Efficiency Sensible	%	80	76	73	69	67	64.5	61	59.5	56			
Pressure Drop	Pa	20	33	42	52	65	77	87	95	105			
	in. w.c	0.08	0.13	0.17	0.20	0.26	0.30	0.34	0.37	0.41			
Model No.	Air Volume												
HTW-800	CMH	659	988	1318	1647	1976	2306	2635	2964	3294	1070	400	340
	CFM	388	582	775	969	1163	1357	1551	1745	1938	42.1	15.7	750
HTW-1000	CMH	1121	1681	2241	2801	3362	3922	4482	5042	5603	1270	400	370
	CFM	659	989	1319	1649	1978	2308	2638	2967	3297	50.0	15.7	815
HTW-1200	CMH	1697	2546	3394	4243	5092	5940	6789	7637	8486	1470	400	490
	CFM	999	1498	1998	2497	2996	3496	3995	4495	4994	57.9	15.7	1080
HTW-1400	CMH	2272	3409	4545	5681	6817	7953	9090	10226	11362	1750	500	650
	CFM	1337	2006	2675	3343	4012	4681	5349	6018	6687	68.9	19.7	1435
HTW-1600	CMH	3072	4607	6143	7679	9215	10751	12286	13822	15358	1950	500	820
	CFM	1808	2711	3615	4519	5423	6327	7231	8134	9038	76.8	19.7	1805
HTW-1800	CMH	3986	5979	7971	9964	11957	13950	15943	17936	19928	2150	500	905
	CFM	2346	3518	4691	5864	7037	8210	9382	10555	11728	84.6	19.7	1995
HTW-2000	CMH	5015	7522	10029	12537	15044	17551	20059	22566	25074	2350	500	1060
	CFM	2951	4427	5902	7378	8853	10329	11805	13280	14756	92.5	19.7	2335
HTW-2200	CMH	6078	9117	12156	15195	18234	21274	24313	27352	30391	2550	500	1150
	CFM	3577	5366	7154	8943	10731	12520	14308	16097	17885	100.4	19.7	2535
HTW-2400	CMH	7330	10995	14659	18324	21989	25654	29319	32984	36649	2850	500	1290
	CFM	4314	6470	8627	10784	12941	15097	17254	19411	21568	112.2	19.7	2845
HTW-2600	CMH	8506	12759	17012	21265	25518	29771	34024	38277	42530	3050	600	1740
	CFM	5006	7509	10012	12514	15017	17520	20023	22526	25029	120.1	23.6	3835
HTW-2800	CMH	9973	14959	19945	24932	29918	34904	39891	44877	49863	3250	600	1890
	CFM	5869	8803	11738	14672	17607	20541	23476	26410	29345	128.0	23.6	4165
HTW-3000	CMH	11554	17332	23109	28886	34663	40440	46217	51995	57772	3500	600	2100
	CFM	6800	10200	13599	16999	20399	23799	27199	30599	33999	137.8	23.6	4630
HTW-3200	CMH	13251	19876	26502	33127	39753	46378	53004	59629	66255	3700	600	2250
	CFM	7798	11697	15596	19495	23395	27294	31193	35092	38991	145.7	23.6	4960
HTW-3400	CMH	15062	22594	30125	37656	45187	52719	60250	67781	75312	3900	600	2490
	CFM	8864	13296	17729	22161	26593	31025	35457	39889	44321	153.5	23.6	5490

Efficiency at 150° C. Loss of pressure cold (t=20° C)

**Performance Data - High Temperature Wheel
(H Series upto 500°C)
Flute Height 3.0mm**

Velocity	M/S	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	Dim. Height Inches A & B	Dim. Depth Inches C	Wt. Kgs Lbs
	FPM	200	300	400	500	600	700	800	900	1000			
Efficiency Sensible	%	80	76	73	69	67	64.5	61	59.5	56			
Pressure Drop	Pa	20	33	42	52	65	77	87	95	105			
	in. w.c	0.08	0.13	0.17	0.20	0.26	0.30	0.34	0.37	0.41			
Model No.	Air Volume												
HTW-1000	CMH	659	988	1318	1647	1976	2306	2635	2964	3294	1420	500	640
	CFM	388	582	775	969	1163	1357	1551	1745	1938	55.9	19.7	1410
HTW-1200	CMH	1121	1681	2241	2801	3362	3922	4482	5042	5603	1620	500	750
	CFM	659	989	1319	1649	1978	2308	2638	2967	3297	63.8	19.7	1655
HTW-1400	CMH	1697	2546	3394	4243	5092	5940	6789	7637	8486	1820	500	860
	CFM	999	1498	1998	2497	2996	3496	3995	4495	4994	71.7	19.7	1895
HTW-1600	CMH	2272	3409	4545	5681	6817	7953	9090	10226	11362	2020	500	1000
	CFM	1337	2006	2675	3343	4012	4681	5349	6018	6687	79.5	19.7	2205
HTW-1800	CMH	3072	4607	6143	7679	9215	10751	12286	13822	15358	2310	500	1125
	CFM	1808	2711	3615	4519	5423	6327	7231	8134	9038	90.9	19.7	2480
HTW-2000	CMH	3986	5979	7971	9964	11957	13950	15943	17936	19928	2510	600	1250
	CFM	2346	3518	4691	5864	7037	8210	9382	10555	11728	98.8	23.6	2755
HTW-2200	CMH	5015	7522	10029	12537	15044	17551	20059	22566	25074	2710	600	1400
	CFM	2951	4427	5902	7378	8853	10329	11805	13280	14756	106.7	23.6	3085
HTW-2400	CMH	6078	9117	12156	15195	18234	21274	24313	27352	30391	3000	600	1650
	CFM	3577	5366	7154	8943	10731	12520	14308	16097	17885	118.1	23.6	3635
HTW-2600	CMH	7330	10995	14659	18324	21989	25654	29319	32984	36649	3200	600	1900
	CFM	4314	6470	8627	10784	12941	15097	17254	19411	21568	126.0	23.6	4190

Efficiency at 150° C. Loss of pressure cold (t=20° C)