

TECHNICAL SPECIFICATION



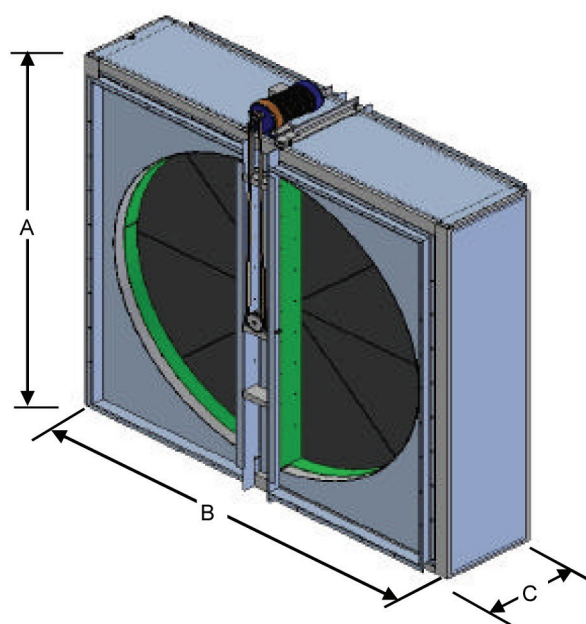
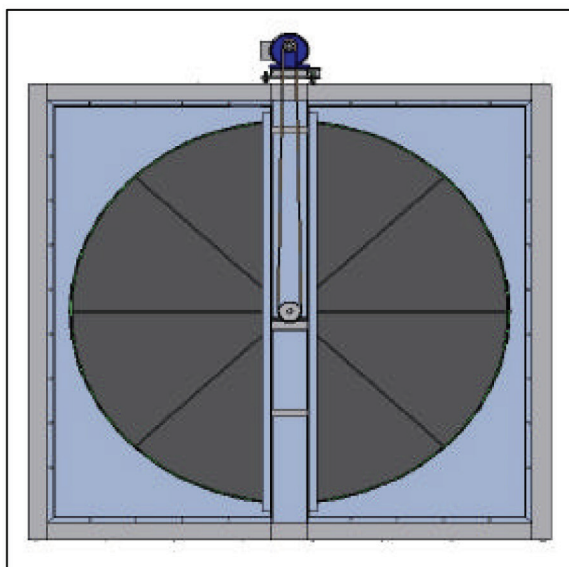
HEAT RECOVERY WHEEL (HTW - M & H SERIES) FOR HIGH TEMPERATURE APPLICATION

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/Galvenised 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 Number	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)

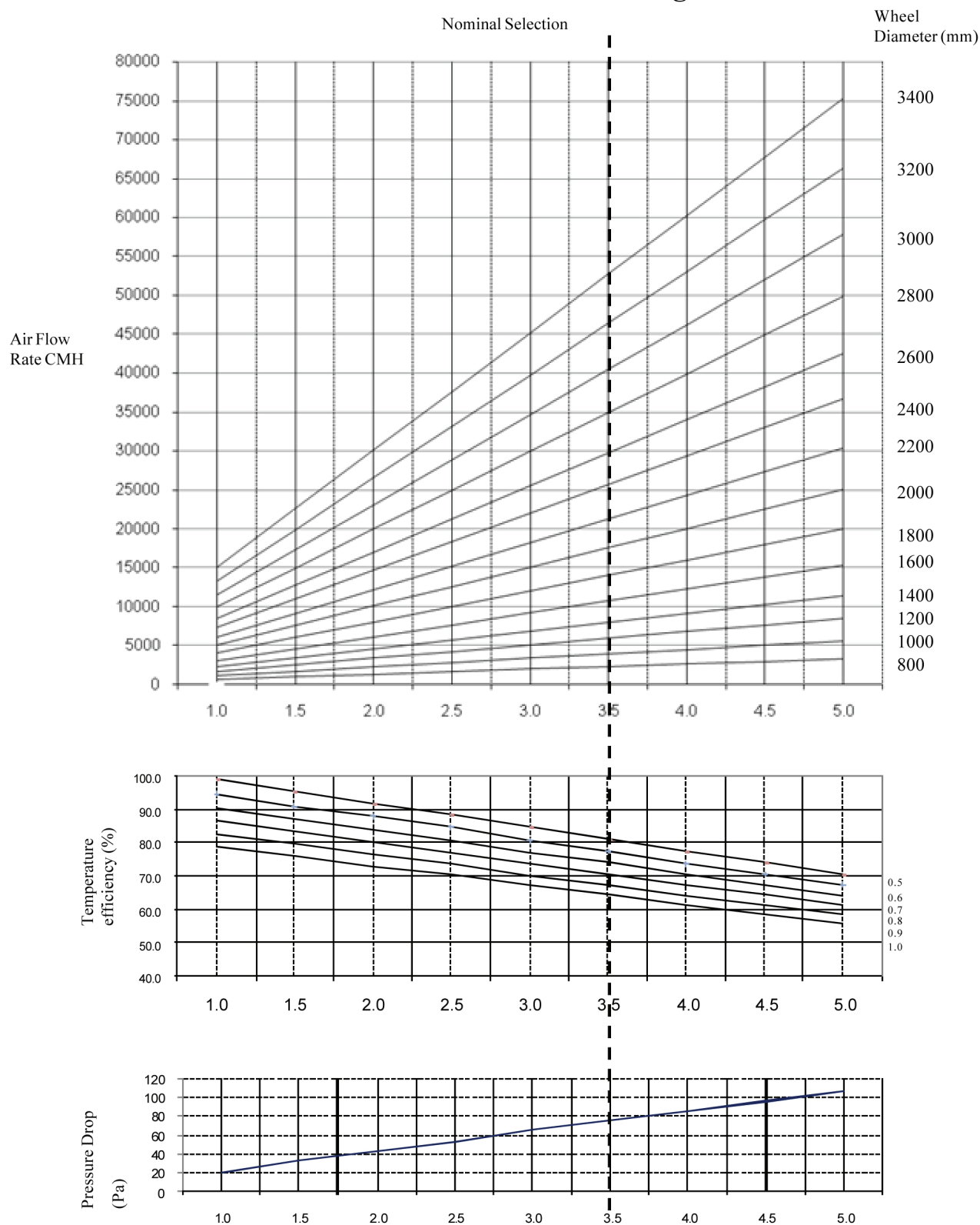
**Performance Data - High Temperature Wheel
(H Series upto 500°C)
Flute Height 3.0mm**

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
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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
HTW2400	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)

***EcoFresh* High Temperature Wheel**

Product Selection Chart Flute Height 3.0mm



Note: The nominal face velocity of 3.5m/s for M Series, Please select next Higher model for H Series 500°C