

HEAT RECOVERY WHEEL HRW SERIES (MS-200-1.9mm) Marine Grade

HEAT RECOVERY WHEEL (HRW-500 to 5000) COMES WITH **ECO-FRESH** WHEEL/ROTOR
ALL HRW SERIES UNIT HAVE THE FOLLOWING OUTSTANDING FEATURES

High efficiency and reliability

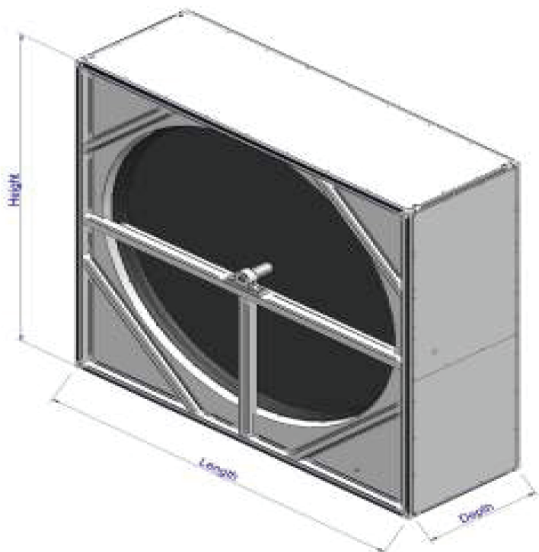
- * Stainless steel (SS-316) sheet casing (upto 2400mm)
- * Stainless steel structural frame panel/casing (above 2400mm).
- * Molecular sieve coated aluminium "EcoFresh" total energy recovery wheel.
- * Nearly equal sensible and latent recovery.
- * Designed for low rotor speed around 20-25 rpm.
- * The rotor is made of alternate flat and corrugated aluminium foil of very uniform pitch and height.
- * Aluminium foil is suitable for Marine application.
- * The Spoke, Hub cover & Shaft are made of stainless steel. (In direct contact with air stream)
- * The Hub is not kept in contact with air stream and is made of MS covered by SS cover.
- * The media is cleanable with compressed air.
- * The surface of the wheel is highly polished to ensure that the vertical runout does not exceed ± 1 mm for every 1 meter diameter.
- * Rotor depth 200mm.
- * The face and radial seals are brush seal (upto 2200mm)
- * The face and radial seals are four (4) pass non contact labyrinth seals for effective sealing between the two air streams.
- * Rotor face edge are hardened with special coating which ensures long life of the media.

WHEEL CONSTRUCTION

MONOLITHIC	HRW-500 to 2200
HALF MOON	HRW-2400 to 3800
SEGMENTED	HRW-4000 to 5000

POWER REQUIREMENT

HRW-500 to 1100	0.09 KW, 415V/3PH/50HZ
HRW-1200 to 1600	0.18 KW, 415V/3PH/50HZ
HRW-1700 to 2200	0.37 KW, 415V/3PH/50HZ
HRW-2400 to 5000	0.75 KW, 415V/3PH/50HZ



OPTIONS AVAILABLE

SENSIBLE ONLY	AVAILABLE
VARIABLE SPEED DRIVE	AVAILABLE ON REQUEST
SINGLE PHASE DRIVE	AVAILABLE ON REQUEST
CUSTOMISED FLUTE HEIGHT	AVAILABLE ON REQUEST
HORIZONTAL MOUNTING	CONSULT FACTORY
ARRANGEMENT CODE	REFER PRODUCT BIBLE
SEGMENTED WHEELS	AVAILABLE ON REQUEST

ALL DATA SUBJECT TO CHANGE WITHOUT NOTICE

Heat Recovery Wheel - Performance Data

HRW SERIES (MS-200-1.9mm)



Velocity	M/S FPM	1.0 200	1.5 300	2.0 400	2.5 500	3.0 600	3.5 700	4.0 800	4.5 900	5.0 1000
Sensible	Efficiency in %	83	80	78	75	73	71	69	66	64
Latent (Winter Heating)		80	77	75	72	69	66	63	60	58
Latent (Summer Cooling)		80	77	75	72	69	66	63	60	58
Total (Winter Heating)		82	79	77	74	71	69	67	64	62
Total (Summer Cooling)		81	78	76	73	71	68	65	62	60
Pressure Drop	Pa in. w.c	74 0.29	85 0.33	102 0.40	122 0.48	143 0.56	165 0.65	189 0.74	214 0.84	241 0.95
Model Number	Air Volume									
HRW-500-MS 200-MG	CMH	273	409	546	682	765	955	1092	1228	1365
	CFM	161	241	321	402	450	562	642	723	803
HRW-600-MS 200-MG	CMH	416	623	831	1039	1189	1454	1662	1870	2078
	CFM	245	367	489	611	700	856	978	1100	1223
HRW-700-MS 200-MG	CMH	586	879	1172	1465	1699	2051	2345	2638	2931
	CFM	345	517	690	862	1000	1207	1380	1552	1725
HRW-800-MS 200-MG	CMH	785	1177	1569	1962	2379	2746	3139	3531	3923
	CFM	462	693	924	1154	1400	1616	1847	2078	2309
HRW-900-MS 200-MG	CMH	1011	1517	2022	2528	3059	3539	4044	4550	5055
	CFM	595	893	1190	1488	1800	2083	2380	2678	2975
HRW-1000-MS 200-MG	CMH	1265	1898	2531	3164	3738	4429	5062	5695	6327
	CFM	745	1117	1489	1862	2200	2607	2979	3351	3724
HRW-1100-MS 200-MG	CMH	1548	2322	3096	3869	4588	5417	6191	6965	7739
	CFM	911	1366	1822	2277	2700	3188	3643	4099	4554
HRW-1200-MS 200-MG	CMH	1820	2730	3640	4550	5438	6371	7281	8191	9101
	CFM	1071	1607	2142	2678	3200	3749	4285	4820	5356
HRW-1300-MS 200-MG	CMH	2105	3157	4210	5262	6287	7367	8419	9472	10524
	CFM	1239	1858	2477	3097	3700	4335	4955	5574	6193
HRW-1400-MS 200-MG	CMH	2467	3701	4934	6168	7307	8635	9869	11103	12336
	CFM	1452	2178	2904	3630	4300	5082	5808	6534	7260
HRW-1500-MS 200-MG	CMH	2858	4286	5715	7144	8666	10002	11430	12859	14288
	CFM	1682	2523	3363	4204	5100	5886	6727	7568	8409
HRW-1600-MS 200-MG	CMH	3239	4859	6479	8099	9686	11338	12958	14577	16197
	CFM	1906	2860	3813	4766	5700	6672	7626	8579	9532
HRW-1700-MS 200-MG	CMH	3683	5524	7366	9207	11045	12890	14732	16573	18415
	CFM	2167	3251	4335	5418	6500	7586	8670	9753	10837
HRW-1800-MS 200-MG	CMH	4154	6232	8309	10386	12574	14540	16617	18695	20772
	CFM	2445	3667	4890	6112	7400	8557	9779	11002	12224
HRW-1900-MS 200-MG	CMH	4654	6981	9307	11634	13934	16288	18615	20942	23269
	CFM	2739	4108	5477	6847	8200	9585	10955	12324	13694
HRW-2000-MS 200-MG	CMH	5181	7771	10362	12952	15633	18133	20724	23314	25905
	CFM	3049	4574	6098	7623	9200	10672	12196	13721	15245
HRW-2200-MS 200-MG	CMH	6355	9532	12709	15887	19031	22241	25419	28596	31773
	CFM	3740	5610	7479	9349	11200	13089	14959	16829	18699
HRW-2400-MS 200-MG	CMH	7608	11413	15217	19021	22940	26630	30434	34238	38042
	CFM	4478	6716	8955	11194	13500	15671	17910	20149	22388
HRW-2600-MS 200-MG	CMH	8974	13461	17948	22435	27018	31409	35896	40383	44870
	CFM	5281	7922	10562	13203	15900	18484	21125	23765	26406
HRW-2800-MS 200-MG	CMH	10451	15677	20902	26128	31436	36579	41805	47030	52256
	CFM	6150	9226	12301	15376	18500	21527	24602	27677	30752
HRW-3000-MS 200-MG	CMH	12040	18060	24080	30100	36194	42140	48160	54180	60200
	CFM	7086	10628	14171	17714	21300	24800	28342	31885	35428
HRW-3200-MS 200-MG	CMH	13741	20611	27481	34352	41291	48093	54963	61833	68704
	CFM	8086	12130	16173	20216	24300	28302	32346	36389	40432
HRW-3400-MS 200-MG	CMH	15553	23330	31106	38883	46729	54436	62213	69989	77766
	CFM	9153	13730	18306	22883	27500	32036	36612	41189	45765
HRW-3600-MS 200-MG	CMH	17477	26216	34954	43693	52506	61170	69909	78648	87386
	CFM	10285	15428	20571	25713	30900	35999	41141	46284	51427
HRW-3800-MS 200-MG	CMH	19513	29270	39026	48783	58624	68296	78052	87809	97565
	CFM	11483	17225	22967	28709	34500	40192	45934	51676	57417
HRW-4000-MS 200-MG	CMH	21661	32491	43321	54152	65081	75812	86643	97473	108303
	CFM	12747	19121	25495	31868	38300	44616	50989	57363	63737
HRW-4200-MS 200-MG	CMH	23920	35880	47840	59800	71878	83720	95680	107640	119600
	CFM	14077	21115	28154	35192	42300	49269	56308	63346	70384
HRW-4400-MS 200-MG	CMH	26291	39436	52582	65727	79014	92018	105164	118309	131455
	CFM	15472	23208	30944	38681	46500	54153	61889	69625	77361
HRW-4600-MS 200-MG	CMH	28774	43161	57547	71934	86321	100708	115095	129482	143869
	CFM	16933	25400	33867	42333	50800	59267	67733	76200	84667
HRW-4800-MS 200-MG	CMH	31368	47052	62736	78421	94138	109789	125473	141157	156841
	CFM	18460	27690	36920	46150	55400	64611	73841	83071	92301
HRW-5000-MS 200-MG	CMH	34074	51112	68149	85186	102294	119260	136298	153335	170372
	CFM	20053	30079	40106	50132	60200	70185	80211	90238	100264

Note :

Because of our policy of continous product improvements, specifications are subject to change without notice.