



All Wheels Recover Energy Some Do It Better...

DRI[®] ECO⁺FRESH[®]
Energy Recovery Wheels (EZ Series)



Sorption Wheels...EZ SERIES !!

Features

- **High Selectivity:** EcoFresh Energy Wheels EZ series use special, Selective Zeolite Desiccant coated on aluminum substrate and this results in high latent recovery and control on cross contamination.
- **Aluminium Substrate:** The aluminium substrate eliminates any fire risks and results in high sensible recovery and high structural strength.
- **In-built purge sector eliminates cross contamination:** The Purge section provides strict separation of airflows, preventing carryover of bacteria, dust, and pollutants from exhaust air to supply air. Purge section and sealing system limit cross-contamination of the exhaust air concentration by volume.
- **Non Contact Labyrinth seal :**
 - No wear and tear
 - Effective sealing
 - Long life
 - Brush seal for wheels upto 2400 mm
- **Structural Rigidity, Hardened Edges and Innovative Manufacturing Design:**
 - State-of-the-art winding technology and adhesives give EcoFresh rotors high structural strength.
 - Wheel Edges hardened as standard to suit marine coastal application needs.
- **Highly Polished Surface:** Vertical run out less than 1 mm per 1000 mm resulting in extremely low leakage across the central divider seals.
- **Robust spoke Structure**
- **Highest Recovery Efficiency Ratio (RER) in the industry**
- **Industry's highest recovery/performance:**
 - High Desiccant loading / coating
 - Nearly equal sensible and latent recovery
 - Higher performance, low pressure drops
 - Laminar airflow due to thin aluminum substrate and uniform desiccant coating
 - Superior airflow characteristics

Wide Range & Additional options:

- Total energy recovery (Enthalpy) and Eurovent Certified sensible wheels
- Customized Flute height and Rotor depth options
- Cassette as well as Rotor options
- Standard and Customized options
- 500 mm to 5000 mm (dia.)
- Easy retrofit options
- Segmented and Non Segmented options
- Controls Package available

State-of-the-art Test Labs



Selection Software Available



Fully Integrated Manufacturing Plant



Why DRI

- Largest global producer of Enthalpy Wheels
- #1 in performance... worldwide
- First choice of Engineers and Consultants globally
- Eurovent Certified Wheels
- Integrated Rotor manufacturing facility
- World Class Rotor test facility (Enthalpy as well as Desiccant)

 Installations
in over **80** Countries

 **27** New
Technologies

 **1500+**
Employees

 **9** R&D Labs



 Representatives
in Over **60** Countries

 **142** Patents
Application Filed

 **13** Manufacturing
Facilities

 **90** Patents
Granted/Allowed

Heat Recovery Wheel - Performance Data

HRW SERIES (EZ-200-1.85)



Velocity	M/S	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
FPM		200	300	400	500	600	700	800	900	1000	1100
Sensible	Efficiency In %	80.5	77.1	76.0	74.0	71.5	69.5	67.5	65.5	63.5	61.5
Latent (Winter Heating)		79.5	76.1	75.0	73.0	70.5	68.5	66.5	64.5	62.5	60.5
Latent (Summer Cooling)		78.5	75.1	74.0	72.0	69.5	67.5	65.5	63.5	61.5	59.5
Total (Winter Heating)		80.2	76.8	75.7	73.7	71.2	69.2	67.2	65.2	63.2	61.2
Total (Summer Cooling)		79.3	75.9	74.8	72.8	70.3	68.3	66.3	64.3	62.3	60.3
Pressure Drop	Pa	59	75	99	128	162	192	228	251		
	in. w.c.	0.23	0.30	0.39	0.50	0.64	0.72	0.81	0.90	0.99	
Model Number											
HRW-300-EZ-200-1.85	CMH	119	179	238	297	357	418	478	535	595	654
	CFM	76	105	140	175	210	245	280	315	350	385
HRW-400-EZ-200-1.85	CMH	221	331	442	552	663	773	884	994	1105	1215
	CFM	130	195	260	325	390	455	520	585	650	715
HRW-500-EZ-200-1.85	CMH	319	479	639	799	958	1118	1278	1438	1597	1757
	CFM	188	282	376	470	564	658	752	846	940	1034
HRW-600-EZ-200-1.85	CMH	477	716	955	1194	1432	1671	1910	2149	2387	2626
	CFM	281	422	562	703	843	984	1124	1265	1405	1546
HRW-700-EZ-200-1.85	CMH	664	997	1329	1661	1993	2325	2658	2990	3322	3654
	CFM	391	587	782	978	1173	1369	1564	1760	1955	2151
HRW-800-EZ-200-1.85	CMH	880	1320	1760	2200	2640	3080	3519	3959	4399	4839
	CFM	518	777	1036	1295	1553	1812	2071	2330	2589	2848
HRW-900-EZ-200-1.85	CMH	1124	1686	2248	2810	3372	3934	4495	5057	5619	6181
	CFM	661	992	1323	1654	1984	2315	2646	2976	3307	3638
HRW-1000-EZ-200-1.85	CMH	1397	2085	2774	3462	4150	4838	5526	6215	6904	7592
	CFM	822	1233	1644	2055	2466	2877	3288	3699	4110	4521
HRW-1100-EZ-200-1.85	CMH	1589	2348	3107	3866	4625	5384	6143	6902	7661	8420
	CFM	1000	1499	1999	2499	2999	3499	3999	4499	4999	5499
HRW-1200-EZ-200-1.85	CMH	2039	3043	4048	5052	6057	7061	8066	9071	10076	11081
	CFM	1194	1791	2388	2985	3582	4179	4776	5373	5970	6567
HRW-1300-EZ-200-1.85	CMH	2323	3484	4645	5807	6969	8130	9291	10453	11614	12775
	CFM	1367	2051	2734	3418	4101	4785	5468	6152	6835	7519
HRW-1400-EZ-200-1.85	CMH	2711	4066	5421	6777	8132	9487	10842	12198	13553	14909
	CFM	1595	2383	3170	3958	4746	5533	6321	7108	7896	8684
HRW-1500-EZ-200-1.85	CMH	3127	4691	6255	7818	9382	10945	12509	14073	15637	17201
	CFM	1840	2781	3681	4581	5481	6381	7281	8181	9081	9981
HRW-1600-EZ-200-1.85	CMH	3573	5359	7146	8932	10718	12505	14291	16078	17864	19650
	CFM	2103	3154	4205	5257	6308	7359	8410	9461	10513	11564
HRW-1700-EZ-200-1.85	CMH	4047	6070	8093	10116	12139	14162	16185	18208	20231	22254
	CFM	2381	3572	4763	5954	7144	8335	9526	10717	11907	13098
HRW-1800-EZ-200-1.85	CMH	4560	6824	9088	11352	13616	15880	18144	20408	22672	24936
	CFM	2677	4016	5355	6694	8033	9371	10710	12049	13388	14727
HRW-1900-EZ-200-1.85	CMH	5081	7522	9963	12404	14845	17286	19727	22168	24609	27050
	CFM	2900	4405	5910	7415	8920	10425	11930	13435	14940	16445
HRW-2000-EZ-200-1.85	CMH	5541	8212	10883	13554	16225	18896	21567	24238	26909	29580
	CFM	3250	4880	6510	8140	9770	11400	13030	14660	16290	17920
HRW-2100-EZ-200-1.85 (Mono G)	CMH	6001	8884	11767	14650	17533	20416	23299	26182	29065	31948
	CFM	3569	5354	7139	8924	10709	12494	14279	16064	17849	19634
HRW-2200-EZ-200-1.85 (Mono G)	CMH	6511	9722	12933	16144	19355	22566	25777	28988	32199	35410
	CFM	4010	6016	8021	10027	12032	14038	16043	18049	20054	22059
HRW-2300-EZ-200-1.85 (H.M. & SEG)	CMH	6911	10322	13733	17144	20555	23966	27377	30788	34199	37610
	CFM	4010	6016	8021	10027	12032	14038	16043	18049	20054	22059
HRW-2300-EZ-200-1.85 (Mono G)	CMH	7456	11184	14912	18640	22368	26096	29824	33552	37280	41008
	CFM	4388	6582	8776	10970	13164	15358	17552	19746	21940	24134
HRW-2300-EZ-200-1.85 (H.M. & SEG)	CMH	7456	11184	14912	18640	22368	26096	29824	33552	37280	41008
	CFM	4388	6582	8776	10970	13164	15358	17552	19746	21940	24134
HRW-2400-EZ-200-1.85 (Mono G)	CMH	8136	12204	16272	20340	24408	28476	32544	36612	40680	44748
	CFM	4768	7182	9596	11990	14384	16778	19172	21566	23960	26354
HRW-2400-EZ-200-1.85 (H.M. & SEG)	CMH	8136	12204	16272	20340	24408	28476	32544	36612	40680	44748
	CFM	4768	7182	9596	11990	14384	16778	19172	21566	23960	26354
HRW-2500-EZ-200-1.85	CMH	8853	13280	17708	22136	26564	30992	35420	39848	44276	48704
	CFM	5210	7815	10420	13025	15630	18235	20840	23445	26050	28655
HRW-2600-EZ-200-1.85	CMH	9572	14339	19106	23873	28640	33407	38174	42941	47708	52475
	CFM	5633	8450	11267	14084	16900	19717	22534	25350	28167	30984
HRW-2700-EZ-200-1.85	CMH	10346	15523	20699	25876	31053	36230	41407	46584	51761	56938
	CFM	6090	9135	12180	15225	18270	21315	24360	27405	30450	33495
HRW-2800-EZ-200-1.85	CMH	11124	16686	22248	27810	33372	38934	44496	50058	55620	61182
	CFM	6546	9820	13093	16366	19639	22912	26185	29458	32731	36004
HRW-2900-EZ-200-1.85	CMH	11956	17804	23652	29500	35348	41196	47044	52892	58740	64588
	CFM	7036	10554	14072	17590	21108	24626	28144	31662	35180	38698
HRW-3000-EZ-200-1.85	CMH	12790	19185	25580	31975	38370	44765	51160	57555	63950	70345
	CFM	7527	11391	15255	19119	22983	26847	30711	34575	38439	42303
HRW-3100-EZ-200-1.85	CMH	13602	20252	26902	33552	40202	46852	53502	60152	66802	73452
	CFM	8052	12078	16104	20130	24156	28182	32208	36234	40260	44286
HRW-3200-EZ-200-1.85	CMH	14452	21457	28462	35467	42472	49477	56482	63487	70492	77497
	CFM	8575	12883	17191	21499	25807	29915	34023	38131	42239	46347
HRW-3400-EZ-200-1.85	CMH	16468	24701	32934	41167	49400	57633	65866	74099	82332	90565
	CFM	9691	14537	19383	24228	29074	33919	38765	43610	48456	53302
HRW-3600-EZ-200-1.85	CMH	18479	27718	36957	46196	55435	64674	73913	83152	92391	101630
	CFM	10875	16312	21750	27187	32625	38062	43499	48937	54374	59811
HRW-3800-EZ-200-1.85	CMH	20635	30907	41179	51451	61723	71995	82267	92539	102811	113083
	CFM	12126	18159	24192	30225	36258	42291	48324	54357	60390	66423
HRW-4000-EZ-200-1.85	CMH	22846	34259	45672	57085	68498	79911	91324	102737	114150	125563
	CFM	13445	20167	26889	33611	40333	47055	53777	60499	67221	73943
HRW-4200-EZ-200-1.85	CMH	25021	37602	50183	62764	75345	87926	100507	113088	125669	138250
	CFM	14831	22247	29662	37077	44492	51907	59322	66737	74152	81567
HRW-4400-EZ-200-1.85	CMH	27672	41608	55544	69480	83416	97352	111288	125224	139160	153096
	CFM	16238	24428	32618	40808	48998	57188	65378	73568	81758	89948
HRW-4600-EZ-200-1.85	CMH	30258	45392	60526	75660	90794	105928	121062	136196	151330	166464
	CFM	17807	26710	35613	44516	53419	62322	71225	80128	89031	97934
HRW-4800-EZ-200-1.85	CMH	32968	49438	65908	82378	98848	115318	131788	148258	164728	181198
	CFM	19396	29094	38792	48490	58188	67886	77584	87282	96980	106678
HRW-5000-EZ-200-1.85	CMH	35774	53661	71548	89435	107322	125209	143096	160983	178870	196757
	CFM	21073	31580	42087	52594	63101	73608	84115	94622	105129	115636

Note :

- (1) 2200mm diameter and above rotor are available with removable segmented media. Half moon casettes complete with half moon rotors for contamination and ease of shipping are available as options. Dimensions and weight shall vary in such cases.
(2) Because of our policy of continuous product improvements, specifications are subject to change without notice.

Height and Width "A" mm inches	Death In Flow Direction "B" mm inches	Net Weight Kg. Pounds
500	295	44
19.7	11.6	97
600	295	50
23.6	11.6	110
700	295	57
27.6	11.6	126
800	295	65
31.5	11.6	143
850	295	70
33.5	11.6	154
950	295	79
37.4	11.6	174
1030	295	86
40.6	11.6	194
1130	295	96
44.5	11.6	216
1230	295	129
48.4	11.6	264
1330	295	150
52.4	11.6	331
1430	295	177
56.3	11.6	390
1530	295	193
60.2	11.6	425
1630	295	205
64.2	11.6	452
1730	325	237
68.1	12.8	522
1830	325	242
72.0	12.8	533
1930	325	271
76.0	12.8	597
2030	325	290
79.9	12.8	639
2130	325	332
83.9	12.8	732
2201	325	386
86.7	12.8	851
2201	325	386
86.7	12.8	851
2400	460	634
94.5	18.1	1367
2430	325	452
96.7	12.8	696
2400	460	675
94.5	18.1	1468
2480	325	493
97.6	12.8	1067
2600	460	717
102.4	18.1	1580
2700	460	750
106.3	18.1	1653
2800	460	787
110.2	18.1	1735
2900	460	820
114.2	18.1	1807
3000	460	890
118.1	18.1	1962
3100	460	634
122.0	18.1	1367
3200	460	929
126.0	18.1	2048
3360	460	1030
129.9	18.1	2149
3400	514	1035
133.9	20.2	2270
3600	514	1002
141.7	20.2	2407
3800	514	1189
149.6	20.2	2621
4000	514	1399
157.5	20.2	3063
4200	514	1491
165.4	20.2	3296
4400	514	2485
173.2	20.2	5477
4600	514	2627
181.1	20.2	2770
4800	514	2792
189.0	20.2	6100
5000	514	2520
196.9	20.2	6436
5200	514	3053
204.7	20.2	6729