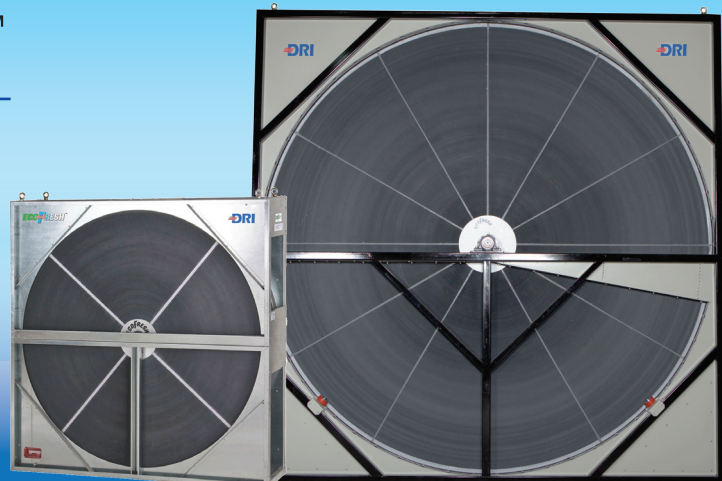


# All Wheels Recover Energy Some Do it Better...



**DRI™ ECO FRESH™**  
Energy Recovery Wheels

**MS 200 SERIES**





Certifications



State-of-the-art Facilities



Fully integrated manufacturing facility for :

- Synthesizing / coating.
- Winding.
- Inhouse Metal work.
- Quick response, fast delivery.
- Substantial capacity to meet large orders.
- Experience with strong OEM customer base worldwide.
- Surface finishing including CNC fabrication & powder coating.

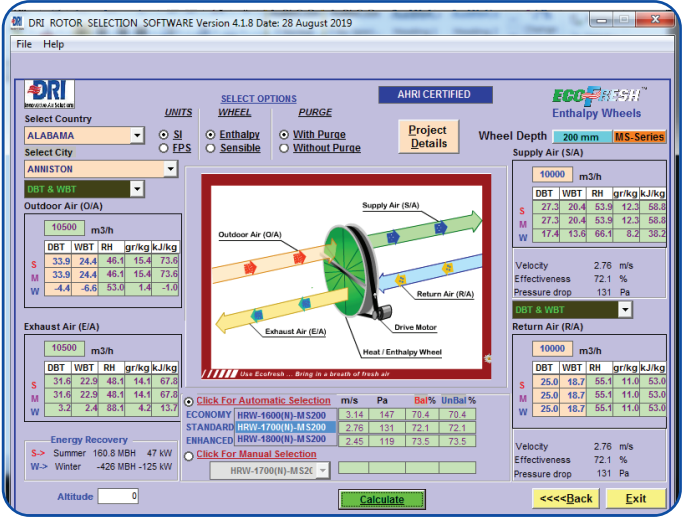
World-Class Manufacturing & Test Facilities



DRI has set up a World-class Test Facility for performance evaluation of Enthalpy Wheels.



Selection Software Available



.. Beyond Payback

Better ★ Humidity Control ★ Energy Recovery

Thus, better and enhanced IAQ at lower Energy costs

- Pre-conditions incoming fresh air.
- Easily integrated/retrofitted into new/existing ventilation systems.
- Delivers fresh air throughout the year at conditions very near inside conditions.
- Helps to meet ventilation standard without raising energy cost.
- Maintains humidity conditions at no additional cost.
- Allows reduction in system capacity by 30% to 65%.

EcoFresh Wheels have played a major role in many projects for achieving sustainable Green Building status with LEED and other energy certifications.

GBC Memberships



Think Afresh . . .with MS 200 series !!



High Selectivity :

EcoFresh Energy Wheels MS 200 series use Molecular Sieve 3Å (EcoSorb 300) 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 :

Purge section provides strict separation of air flows, preventing carryover of bacteria, dust and pollutants from exhaust air to supply air. Purge section and sealing system limit cross contamination to 0.04% of the exhaust air concentration by volume.

Non Contact Labyrinth Seal :

- No wear and tear.
- Long life.
- Effective sealing.
- Brush seal for wheels upto 2200 mm.

Structural Rigidity, Hardened Edges & 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, thus comparatively higher total enthalpy recovery.
- Higher performance, low pressure drops.
- Laminar airflow due to thin aluminium substrate & uniform desiccant coating.
- Superior airflow characteristics.

Wide Range & Additional Options :

- Total energy recovery (Enthalpy) & AHRI Certified sensible wheels.
- Customized Flute height and Rotors depth-options.
- Cassette as well as Rotor options.
- Standard and Customized options.
- 500 mm to 5000 mm (dia.)
- Easy retrofit options.

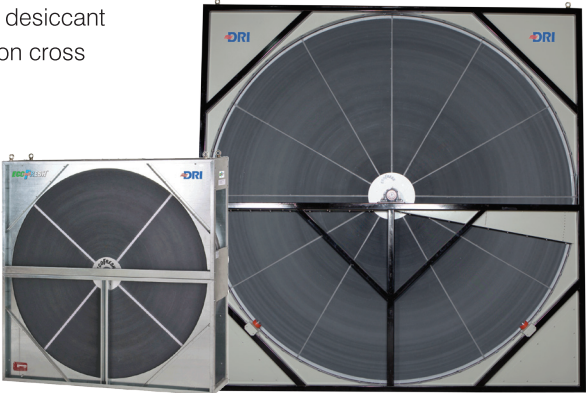
Segmented and Non Segmented Options.

Controls Package Available.

Worldwide Presence

DRI has its Airineers spread out world over

- India
- China
- Switzerland
- Malaysia
- Japan
- Nigeria
- Indonesia
- USA
- UAE
- Vietnam
- Canada
- Saudi Arabia
- Philippines
- Bangladesh
- Korea
- Brazil



# Heat Recovery Wheel - Performance Data

## HRW Series (MS-200-1.9MM)



| Velocity                        | M/S                                | 1.0   | 1.5   | 2.0   | 2.5   | 3.0    | 3.5    | 4.0    | 4.5    | 5.0    | Height<br>and<br>Width<br>"A"<br>mm<br>Inches | Depth<br>in Flow<br>Direction<br>"B"<br>mm<br>Inches | Net<br>Weight<br>Kg.<br>Pounds |
|---------------------------------|------------------------------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-----------------------------------------------|------------------------------------------------------|--------------------------------|
| Sensible                        | FPM                                | 200   | 300   | 400   | 500   | 600    | 700    | 800    | 900    | 1000   |                                               |                                                      |                                |
| Latent (Winter Heating)         | Effectiveness<br>(Balance)<br>In % | 83    | 80    | 78    | 75    | 73     | 71     | 69     | 66     | 64     |                                               |                                                      |                                |
| 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                                 | 74    | 85    | 102   | 122   | 143    | 165    | 189    | 214    | 241    |                                               |                                                      |                                |
|                                 | in. w.c                            | 0.29  | 0.33  | 0.40  | 0.48  | 0.56   | 0.65   | 0.74   | 0.84   | 0.95   |                                               |                                                      |                                |
| Model Number                    | Air Volume                         |       |       |       |       |        |        |        |        |        |                                               |                                                      |                                |
| HRW-500(N)-MS 200               | CMH                                | 273   | 409   | 546   | 682   | 765    | 955    | 1092   | 1228   | 1365   | 700                                           | 295                                                  | 55                             |
|                                 | CFM                                | 161   | 241   | 321   | 402   | 450    | 562    | 642    | 723    | 803    | 27.6                                          | 11.6                                                 | 121                            |
| HRW-600(N)-MS 200               | CMH                                | 416   | 623   | 831   | 1039  | 1189   | 1454   | 1662   | 1870   | 2078   | 800                                           | 295                                                  | 63                             |
|                                 | CFM                                | 245   | 367   | 489   | 611   | 700    | 856    | 978    | 1100   | 1223   | 31.5                                          | 11.6                                                 | 139                            |
| HRW-700(N)-MS 200               | CMH                                | 586   | 879   | 1172  | 1465  | 1699   | 2051   | 2345   | 2638   | 2931   | 850                                           | 295                                                  | 68                             |
|                                 | CFM                                | 345   | 517   | 690   | 862   | 1000   | 1207   | 1380   | 1552   | 1725   | 33.5                                          | 11.6                                                 | 150                            |
| HRW-800(N)-MS 200               | CMH                                | 785   | 1177  | 1569  | 1962  | 2379   | 2746   | 3139   | 3531   | 3923   | 950                                           | 295                                                  | 77                             |
|                                 | CFM                                | 462   | 693   | 924   | 1154  | 1400   | 1616   | 1847   | 2078   | 2309   | 37.4                                          | 11.6                                                 | 170                            |
| HRW-900(N)-MS 200               | CMH                                | 1011  | 1517  | 2022  | 2528  | 3059   | 3539   | 4044   | 4550   | 5055   | 1030                                          | 295                                                  | 85                             |
|                                 | CFM                                | 595   | 893   | 1190  | 1488  | 1800   | 2083   | 2380   | 2678   | 2975   | 40.6                                          | 11.6                                                 | 187                            |
| HRW-1000(N)-MS 200              | CMH                                | 1265  | 1898  | 2531  | 3164  | 3738   | 4429   | 5062   | 5695   | 6327   | 1130                                          | 295                                                  | 95                             |
|                                 | CFM                                | 745   | 1117  | 1489  | 1862  | 2200   | 2607   | 2979   | 3351   | 3724   | 44.5                                          | 11.6                                                 | 209                            |
| HRW-1100(N)-MS 200              | CMH                                | 1548  | 2322  | 3096  | 3869  | 4588   | 5417   | 6191   | 6965   | 7739   | 1230                                          | 295                                                  | 125                            |
|                                 | CFM                                | 911   | 1366  | 1822  | 2277  | 2700   | 3188   | 3643   | 4099   | 4554   | 48.4                                          | 11.6                                                 | 276                            |
| HRW-1200(N)-MS 200              | CMH                                | 1820  | 2730  | 3640  | 4550  | 5438   | 6371   | 7281   | 8191   | 9101   | 1330                                          | 295                                                  | 146                            |
|                                 | CFM                                | 1071  | 1607  | 2142  | 2678  | 3200   | 3749   | 4285   | 4820   | 5356   | 52.4                                          | 11.6                                                 | 322                            |
| HRW-1300(N)-MS 200              | CMH                                | 2105  | 3157  | 4210  | 5262  | 6287   | 7367   | 8419   | 9472   | 10524  | 1430                                          | 295                                                  | 172                            |
|                                 | CFM                                | 1239  | 1858  | 2477  | 3097  | 3700   | 4335   | 4955   | 5574   | 6193   | 56.3                                          | 11.6                                                 | 379                            |
| HRW-1400(N)-MS 200              | CMH                                | 2467  | 3701  | 4934  | 6168  | 7307   | 8635   | 9869   | 11103  | 12336  | 1530                                          | 295                                                  | 187                            |
|                                 | CFM                                | 1452  | 2178  | 2904  | 3630  | 4300   | 5082   | 5808   | 6534   | 7260   | 60.2                                          | 11.6                                                 | 412                            |
| HRW-1500(N)-MS 200              | CMH                                | 2858  | 4286  | 5715  | 7144  | 8666   | 10002  | 11430  | 12859  | 14288  | 1630                                          | 295                                                  | 199                            |
|                                 | CFM                                | 1682  | 2523  | 3363  | 4204  | 5100   | 5886   | 6727   | 7568   | 8409   | 64.2                                          | 11.6                                                 | 439                            |
| HRW-1600(N)-MS 200              | CMH                                | 3239  | 4859  | 6479  | 8099  | 9686   | 11338  | 12958  | 14577  | 16197  | 1730                                          | 325                                                  | 230                            |
|                                 | CFM                                | 1906  | 2860  | 3813  | 4766  | 5700   | 6672   | 7626   | 8579   | 9532   | 68.1                                          | 12.8                                                 | 507                            |
| HRW-1700(N)-MS 200              | CMH                                | 3683  | 5524  | 7366  | 9207  | 11045  | 12890  | 14732  | 16573  | 18415  | 1830                                          | 325                                                  | 235                            |
|                                 | CFM                                | 2167  | 3251  | 4335  | 5418  | 6500   | 7586   | 8670   | 9753   | 10837  | 72.0                                          | 12.8                                                 | 518                            |
| HRW-1800(N)-MS 200              | CMH                                | 4154  | 6232  | 8309  | 10386 | 12574  | 14540  | 16617  | 18695  | 20772  | 1930                                          | 325                                                  | 263                            |
|                                 | CFM                                | 2445  | 3667  | 4890  | 6112  | 7400   | 8557   | 9779   | 11002  | 12224  | 76.0                                          | 12.8                                                 | 580                            |
| HRW-1900(N)-MS 200              | CMH                                | 4654  | 6981  | 9307  | 11634 | 13934  | 16288  | 18615  | 20942  | 23269  | 2030                                          | 325                                                  | 282                            |
|                                 | CFM                                | 2739  | 4108  | 5477  | 6847  | 8200   | 9585   | 10955  | 12324  | 13694  | 79.9                                          | 12.8                                                 | 622                            |
| HRW-2000(N)-MS 200              | CMH                                | 5181  | 7771  | 10362 | 12952 | 15633  | 18133  | 20724  | 23314  | 25905  | 2130                                          | 325                                                  | 322                            |
|                                 | CFM                                | 3049  | 4574  | 6098  | 7623  | 9200   | 10672  | 12196  | 13721  | 15245  | 83.9                                          | 12.8                                                 | 710                            |
| HRW-2130(N) (2200-MS 200_MonoG) | CMH                                | 5907  | 8860  | 11813 | 14766 | 18182  | 20673  | 23626  | 26579  | 29533  | 2201                                          | 325                                                  | 375                            |
|                                 | CFM                                | 3476  | 5214  | 6952  | 8690  | 10700  | 12166  | 13904  | 15642  | 17380  | 86.7                                          | 12.8                                                 | 827                            |
| HRW-2200(N)-MS 200 (H.M. & SEG) | CMH                                | 6355  | 9532  | 12709 | 15887 | 19031  | 22241  | 25419  | 28596  | 31773  | 2400                                          | 460                                                  | 616                            |
|                                 | CFM                                | 3740  | 5610  | 7479  | 9349  | 11200  | 13089  | 14959  | 16829  | 18699  | 94.5                                          | 18.1                                                 | 1358                           |
| HRW-2400(N)-MS 200 (MonoG)      | CMH                                | 7608  | 11413 | 15217 | 19021 | 22940  | 26630  | 30434  | 34238  | 38042  | 2480                                          | 325                                                  | 479                            |
|                                 | CFM                                | 4478  | 6716  | 8955  | 11194 | 13500  | 15671  | 17910  | 20149  | 22388  | 97.6                                          | 12.8                                                 | 1056                           |
| HRW-2400(N)-MS 200 (H.M. & SEG) | CMH                                | 7608  | 11413 | 15217 | 19021 | 22940  | 26630  | 30434  | 34238  | 38042  | 2600                                          | 460                                                  | 696                            |
|                                 | CFM                                | 4478  | 6716  | 8955  | 11194 | 13500  | 15671  | 17910  | 20149  | 22388  | 102.4                                         | 18.1                                                 | 1534                           |
| HRW-2600(N)-MS 200              | CMH                                | 8974  | 13461 | 17948 | 22435 | 27018  | 31409  | 35896  | 40383  | 44870  | 2800                                          | 460                                                  | 764                            |
|                                 | CFM                                | 5281  | 7922  | 10562 | 13203 | 15900  | 18484  | 21125  | 23765  | 26406  | 110.2                                         | 18.1                                                 | 1684                           |
| HRW-2800(N)-MS 200              | CMH                                | 10451 | 15677 | 20902 | 26128 | 31436  | 36579  | 41805  | 47030  | 52256  | 3000                                          | 460                                                  | 832                            |
|                                 | CFM                                | 6150  | 9226  | 12301 | 15376 | 18500  | 21527  | 24602  | 27677  | 30752  | 118.1                                         | 18.1                                                 | 1834                           |
| HRW-3000(N)-MS 200              | CMH                                | 12040 | 18060 | 24080 | 30100 | 36194  | 42140  | 48160  | 54180  | 60200  | 3200                                          | 460                                                  | 909                            |
|                                 | CFM                                | 7086  | 10628 | 14171 | 17714 | 21300  | 24800  | 28342  | 31885  | 35428  | 126.0                                         | 18.1                                                 | 2003                           |
| HRW-3200(N)-MS 200              | CMH                                | 13741 | 20611 | 27481 | 34352 | 41291  | 48093  | 54963  | 61833  | 68704  | 3400                                          | 514                                                  | 1000                           |
|                                 | CFM                                | 8086  | 12130 | 16173 | 20216 | 24300  | 28302  | 32346  | 36389  | 40432  | 133.9                                         | 20.2                                                 | 2204                           |
| HRW-3400(N)-MS 200              | CMH                                | 15553 | 23330 | 31106 | 38883 | 46729  | 54436  | 62213  | 69989  | 77766  | 3600                                          | 514                                                  | 1060                           |
|                                 | CFM                                | 9153  | 13730 | 18306 | 22883 | 27500  | 32036  | 36612  | 41189  | 45765  | 141.7                                         | 20.2                                                 | 2336                           |
| HRW-3600(N)-MS 200              | CMH                                | 17477 | 26216 | 34954 | 43693 | 52506  | 61170  | 69909  | 78648  | 87386  | 3800                                          | 514                                                  | 1154                           |
|                                 | CFM                                | 10285 | 15428 | 20571 | 25713 | 30900  | 35999  | 41141  | 46284  | 51427  | 149.6                                         | 20.2                                                 | 2543                           |
| HRW-3800(N)-MS 200              | CMH                                | 19513 | 29270 | 39026 | 48783 | 58624  | 68296  | 78052  | 87809  | 97565  | 4000                                          | 514                                                  | 1358                           |
|                                 | CFM                                | 11483 | 17225 | 22967 | 28709 | 34500  | 40192  | 45934  | 51676  | 57417  | 157.5                                         | 20.2                                                 | 2993                           |
| HRW-4000(N)-MS 200              | CMH                                | 21661 | 32491 | 43321 | 54152 | 65081  | 75812  | 86643  | 97473  | 108303 | 4200                                          | 514                                                  | 1448                           |
|                                 | CFM                                | 12747 | 19121 | 25495 | 31868 | 38300  | 44616  | 50989  | 57363  | 63737  | 165.4                                         | 20.2                                                 | 3191                           |
| HRW-4200(N)-MS 200              | CMH                                | 23920 | 35880 | 47840 | 59800 | 71878  | 83720  | 95680  | 107640 | 119600 | 4400                                          | 514                                                  | 2413                           |
|                                 | CFM                                | 14077 | 21115 | 28154 | 35192 | 42300  | 49269  | 56308  | 63346  | 70384  | 173.2                                         | 20.2                                                 | 5318                           |
| HRW-4400(N)-MS 200              | CMH                                | 26291 | 39436 | 52582 | 65727 | 79014  | 92018  | 105164 | 118309 | 131455 | 4600                                          | 514                                                  | 2550                           |
|                                 | CFM                                | 15472 | 23208 | 30944 | 38681 | 46500  | 54153  | 61889  | 69625  | 77361  | 181.1                                         | 20.2                                                 | 5620                           |
| HRW-4600(N)-MS 200              | CMH                                | 28774 | 43161 | 57547 | 71934 | 86321  | 100708 | 115095 | 129482 | 143869 | 4800                                          | 514                                                  | 2691                           |
|                                 | CFM                                | 16933 | 25400 | 33867 | 42333 | 50800  | 59267  | 67733  | 76200  | 84667  | 189.0                                         | 20.2                                                 | 5931                           |
| HRW-4800(N)-MS 200              | CMH                                | 31368 | 47052 | 62736 | 78421 | 94138  | 109789 | 125473 | 141157 | 156841 | 5000                                          | 514                                                  | 2835                           |
|                                 | CFM                                | 18460 | 27690 | 36920 | 46150 | 55400  | 64611  | 73841  | 83071  | 92301  | 196.9                                         | 20.2                                                 | 6248                           |
| HRW-5000(N)-MS 200              | CMH                                | 34074 | 51112 | 68149 | 85186 | 102294 | 119260 | 136298 | 153335 | 170372 | 5200                                          | 514                                                  | 2964                           |
|                                 | CFM                                | 20053 | 30079 | 40106 | 50132 | 60200  | 70185  | 80211  | 90238  | 100264 | 204.7                                         | 20.2                                                 | 6533                           |

**Note:** (1) Monolithic wheel up to HRW-2200(MonoG), HRW-2200 is also available in Half moon/Segmented construction for specific requirement. (2) 2400mm diameter and above rotor are available with removable segmented media. Half moon cassettes complete with half moon rotors for containerisation and ease of shipping are available as options. Dimensions and weight shall vary in such cases. (3) Because of our policy of continuous product improvements, specifications are subject to change without notice.



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Innovation is life

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