

World's Most energy efficient

Desiccant Rotors & Cassettes

Total Energy Recovery Wheels

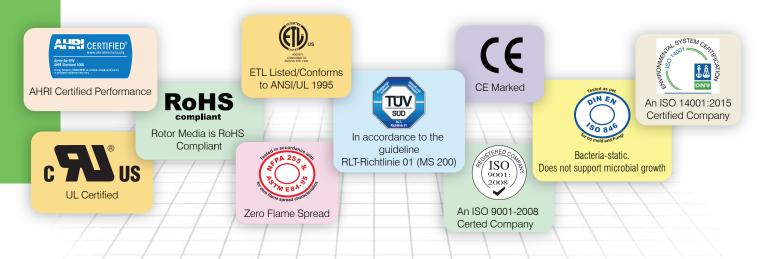






THINK AFRESH...

Worldwide Recognition



Desiccant Rotors International (DRI) is a fast growing HVAC&R company with a global footprint providing solutions for energy recovery and desiccant dehumidification. With over 200 man years of R&D in fluted media technologies, know how of desiccants, one of the best test labs in the world in the respective fields and state of the art manufacturing plants, DRI is actively supporting its customers in North America. The DRI Plants are geared for quick response, fast delivery and have substantial capacity to meet large orders.

State-of-the-art Manufacturing Facilities







World's largest installation base

- ✓ DRI has the world's largest installation base of 3Å Molecular Sieve Coated Wheels.
- Largest global producer of Enthalpy Wheels
- The first choice of engineers /consultants ... worldwide

DRI has its Airgineers spread out world over

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

Worldwide Green Building Memberships















Reasearch and Development

Word-class test facilities for performance evaluation of Enthalpy Wheels and Desiccant Wheels





DRI *EcoFresh* Lab has a World Class Energy Recovery testing facility for performance evaluation of Energy Wheels, in association with Intertek Testing Services, Cortland (Intertek Association with AHRI for the AHRI 1060 Programme)





DRI *EcoDry* Lab helps to test and produce rotors capable of delivering dew point for applications in Pharmaceuticals, Food, Commercial Fresh Air System etc. and extremely low dew point for specialized applications like Lithium Battery Rooms & Plastic Dryers.

MS 270A & 200 SERIES



• High Selectivity:

EcoFresh Energy Wheels MS 270A & MS 200 series use **Molecular Sieve 3Å** (EcoSorb 300) desiccant coated on aluminum substrate. 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
- · Effective sealing
- Long life
- Brush seal for wheels up to 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.
- Equal sensible and latent recovery, thus, comparatively higher total enthalpy recovery.
- Higher performance, low pressure drops.
- Laminar airflow due to thin aluminium substrate and uniform desiccant coating.
- Superior airflow characteristics.

Wide Range & Additional Options :

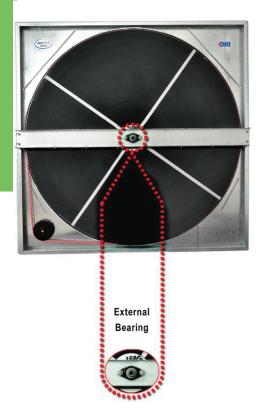
- Total energy recovery (Enthalpy) and AHRI certified Sensible Wheels.
- Customized Flute height and Rotor depth options.
- Cassette as well as Rotor options.
- Standard and Customized options.
- 500 mm to 5000 mm (dia.)
- Easy retrofit options.

Segmented and Non-Segmented Options

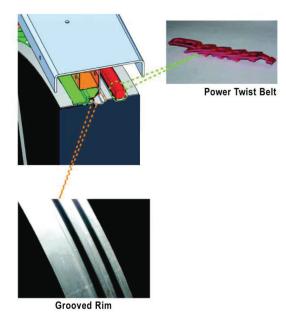
• Controls Package Available

Think Afresh . . . with









The DRI controls package (for Energy Recovery Wheels) include the following components & features :

(a) Temperature and humidity sensors on all four sides of the rotor.

High temperature measurement accuracy.

Minimum Relative Humidity measurement accuracy should be +/- 2% RH

- (b) Bead-in-glass thermistor air flow sensors on the supply and return side of the rotor. Minimum Airflow measurement accuracy to be \pm from reading. Factory set correlation of Airflow sensors with wheels to provide accurate measurement.
- (c) Inductive proximity wheel rotation detector. In case of no enthalpy wheel rotation detected a local / remote alarm/notification ability shall be available.
- (d) Direct digital controller with an integral display to show real time total recovery effectiveness (as per ASHRAE 84-2008 / AHRI 1060) in addition to supply and return air flow in CFM, alarm status, setpoint adjustments and current mode of operation. Direct digital controller shall

communicate with the BMS system through either BacNet or Modbus communication protocol.

Direct digital controller preprogrammed with auto summer/economizer changeover based on

dew-point sensing with adjustable setpoints using a variable speed drive.

A programmable alarm feature for local and remote alarm / notification when outside air flow falls below or exceeds preset limit to maintain building pressurization design conditions.





PASSIVE

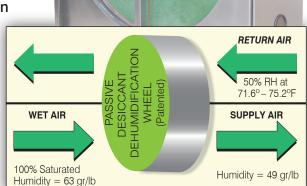
DESICCANT DEHUMIDIFICATION WHEEL

US Patent No.: 9,327,268 B2

Regenerates desiccant without additional energy usage

The unique G3MA "Passive" Desiccant Dehumidification

Wheel (Patented) has the ability to be regenerated with the 50% RH room return air. The Passive Desiccant Dehumidification Wheel is ideal for low dew point fresh air supply.



DRI

ECO BEE



Patented





Ask for the BEST

- High Moisture Removal Capacity
- Non-flammable and Non-toxic
- Fully water washable
- Desiccant synthesized in inorganic substrate
- pH neutral
- Special rotors for low dew point jobs such as Lithium Battery and Plastics applications
- RoHS Certified
- Large installation base through OEMs in Europe, Korea, USA,
 China and Japan

SOME PRESTIGIOUS BUILDINGS with

PRI GREEN PRODUCTS...WORLD-WIDE



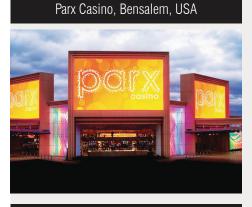








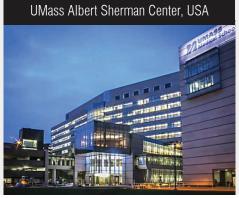














Creating Ripples in the Air Treatment



at the heart of it all.





DESICCANT ROTORS INTERNATIONAL INC.

PAWA'GROUP Innovation is life

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