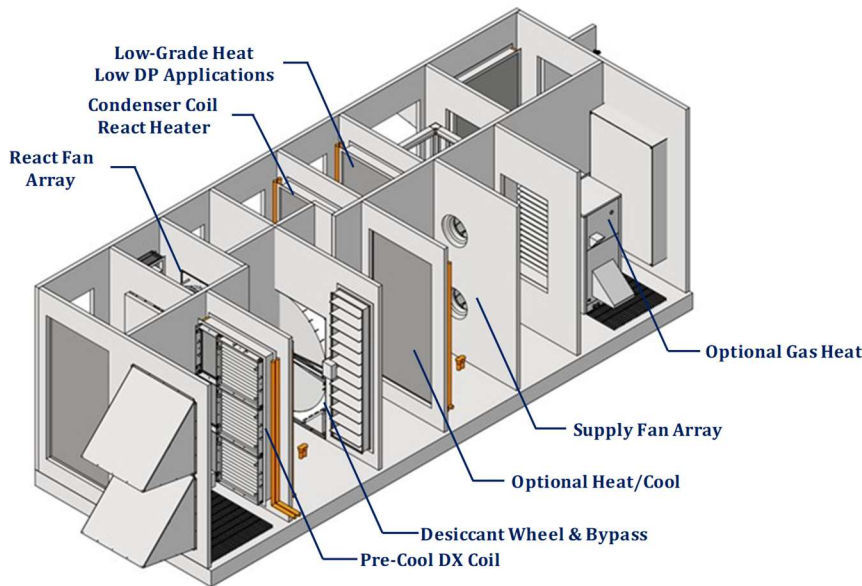




EI Solutions Inc.

FREE DRY DESICCANT DEHUMIDIFICATION SYSTEMS

Desiccant Dehumidification Experts



FreeDry™ is the most energy efficient dehumidification system available for applications requiring supply air dewpoint temperatures below 50°F.

HEAT-PUMP DESICCANT TECHNOLOGY – NATURAL GAS NOT REQUIRED!

The EI Solutions patented FreeDry Series removes moisture more efficiently than any other active desiccant system by perfectly combining the proven advantages of direct expansion (DX) cooling with the superior moisture removal power of desiccant technology.

FreeDry systems reclaim waste heat from the on-board compressors to reactivate the desiccant wheel. Simply put, FreeDry is a packaged DX unit enhanced by an active desiccant wheel to reduce latent cooling compressor requirements by 30 - 40%.

The FreeDry desiccant units employ supply and reactivation fan arrays. A fan array provides many benefits over a single fan including a) redundancy, b) higher efficiency, c) quieter operation, and d) easier maintenance and lower replacement costs.

The performance and efficiency of the FreeDry Series is optimized through the on-board controller's proprietary programming. EI Solutions brings over 25-years of developmental experience to every logic loop that is written into the control sequence.

The FreeDry Series with many models is well suited for a wide range of applications.

FreeDry Series

STANDARD FEATURES

- 4,000-16,000 scfm
- Silicate Desiccant Wheel
- ECM Supply Fan Array
- ECM Reactivation Fan Array
- ECM Condenser Fans
- Modulating (0-100%) Outside and Return Air Dampers
- DH Wheel Bypass Damper
- Double Wall Construction
- Indoor or Outdoor Installation
- Stand-Alone Unit
- Microprocessor with BMS Interface
- Space Dewpoint or Supply Air Dewpoint Control

APPLICATIONS

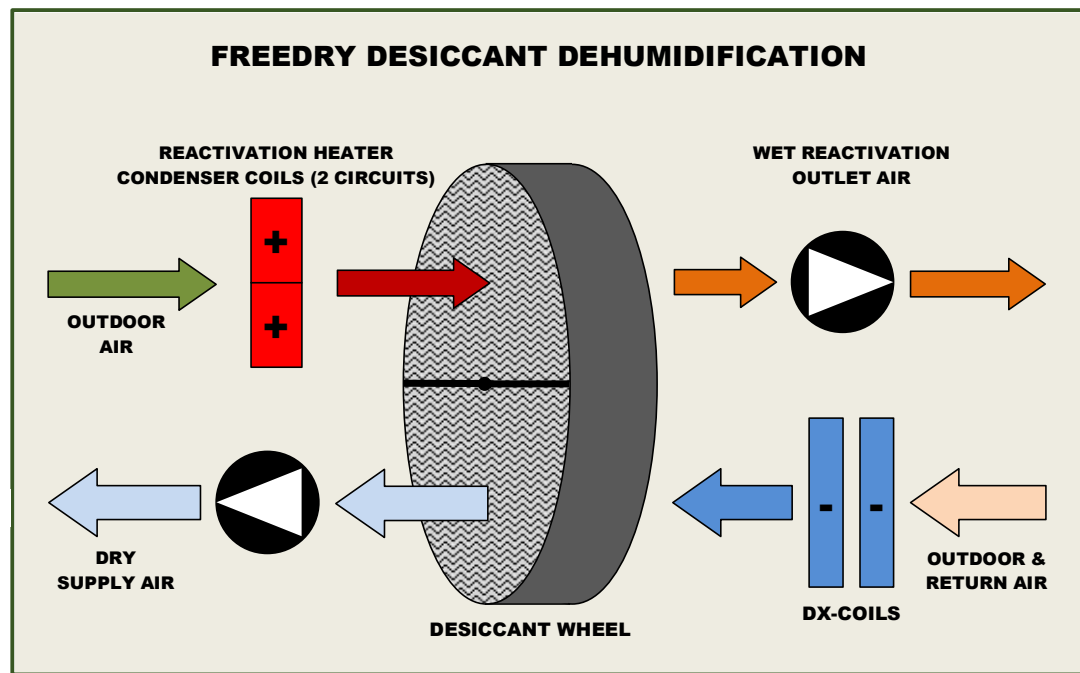
- Dedicated Outdoor Air Systems
- Education
- Hospitals/Healthcare
- Ice Arenas
- Supermarkets
- Product Storage



Each FreeDry unit offers standard options including filter upgrades, post-cooling, post-heating and enthalpy wheel heat recovery. FreeDry units are built for indoor or outdoor installation.

All units are designed to provide ease of serviceability. Access doors are located upstream and downstream of all major components.

For the ice rink industry, FreeDry taps into the abundant waste heat from the ice plant (which is typically rejected by the cooling tower) to meet the lower space dewpoint demands of this specialized industry.



FreeDry™ desiccant technology reclaims the waste heat from the on-board compressors to reactivate the desiccant wheel and supply air below 35°F dew point.

STANDARD MODEL	FD-4024	FD-6035	FD-8045	FD-1270	FD-1690
Supply Airflow (SCFM)	4,000	6,000	8,000	12,000	16,000
Compressor Capacity (Tons)	24	35	45	70	90
Desiccant Wheel (dia. x depth, mm)	1220 x 200	1525 x 200	1730 x 200	2190 x 200	2450 x 200
Moisture Removal (lbs/hr)	220	330	440	660	880
Reactivation Circuit					
Airflow (SCFM)	4,000	6,000	8,000	12,000	16,000
Heat Reclaim (MBH)	360	525	675	1,050	1,350
Electrical Requirements					
460/3/60 (FLA)	67.6	96.6	118.7	172.0	222.1
575/3/60 (FLA)	54.1	77.3	95.0	137.6	177.7
Approximate Dimensions					
Length (inches)	279	279	279	320	320
Width (inches)	84	96	102	132	132
Height (inches)	84	84	102	112	124
Weight (lbs) – Alum. or Steel	TBD	TBD	TBD	TBD	TBD