

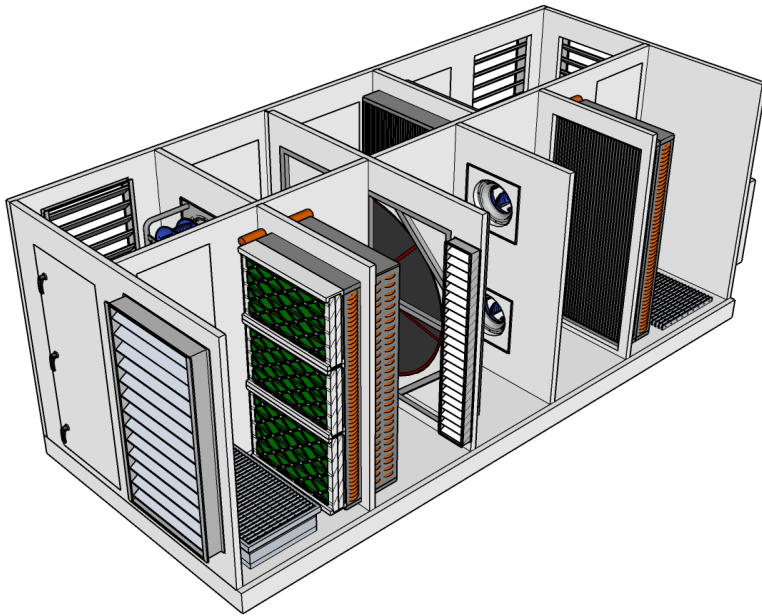


EI Solutions Inc.

FREE DRY FLEX

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.

ACTIVE DESICCANT TECHNOLOGY USING HOT WATER!

The EI Solutions FreeDryFLEX Series cleanly and efficiently removes moisture from air with an active desiccant system utilizing hot fluid reactivation. This configuration, albeit in very large-size custom systems, has proven success in many NHL arena, university and hospital installs. The FreeDryFLEX is available in sizes ranging from 4,000-16,000 cfm and offers a variety of standard options.

FreeDryFLEX systems rely on the clean operation of hot fluid to reactivate the desiccant wheel. This allows facilities with hot

water or steam from central plant operations or waste heat recovery efforts to simply connect to the FreeDryFLEX reactivation coil. When hot water/steam is not available at the site (or is unreliable), the FreeDryFLEX is available with a self-contained boiler or water source heat pump. Simply put, FreeDryFLEX offers customers to select the reactivation heat source best suited for them for an economical installation and improved serviceability.

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

FreeDryFLEX Series

STANDARD FEATURES

- 4,000-16,000 scfm
- Silicate Desiccant Wheel
- ECM Supply Fan Array
- ECM Reactivation Fan Array
- Modulating (0-100%) Outside and Return Air Dampers
- DH Wheel Bypass Damper
- Hydronic Reactivation Coil
- 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

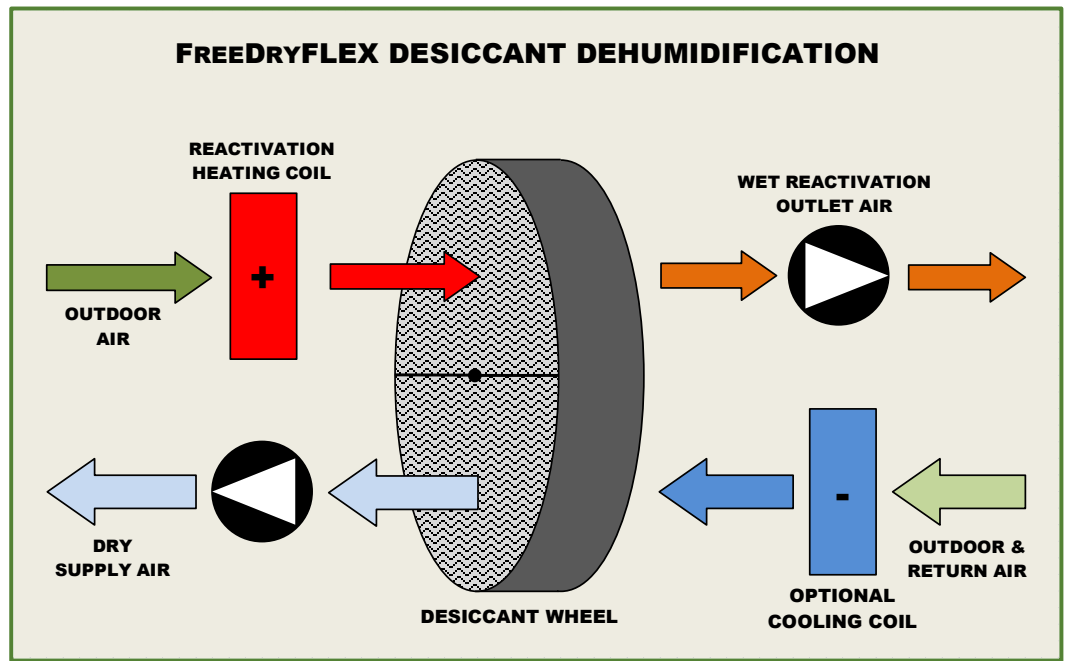


operation, and d) easier maintenance and lower replacement costs.

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. Every 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.



FreeDryFlex™ dehumidifiers are typically designed to supply dry air below 25°F dew point. Since the wheel is regenerated with a heating coil and not direct fuel combustion, the service life of the wheel is easily extended beyond 20+ years.

STANDARD MODEL	FLEX-040	FLEX-060	FLEX-080	FLEX-120	FLEX-160
Supply Airflow (SCFM)	4,000	6,000	8,000	12,000	16,000
Desiccant Wheel (mm)	1220 x 200	1525 x 200	1730 x 200	2190 x 200	2450 x 200
Unit Dimensions					
L x W x H (in)	164 x 88 x 100	164 x 88 x 100	164 x 98 x 100	190 x 122 x 118	190 x 134 x 133
Weight (lbs)	5,800	6,400	7,000	10,600	11,600
FLA (480v)	14	25	25	36	47
Process Air - Added Length					
Pre Fluid Coils	24	24	24	22	22
Post Fluid Coils	38	38	38	46	46
Enthalpy Module					
Length (in) / Weight (lbs)	133 / 2,300	133 / 3,600	133 / 3,800	154 / 5,600	154 / 7,000
- FLA (480v)	7	14	14	20	26
Integrated React Heat Source					
Condensing Boiler (in/lbs)	38 / 1,200	38 / 1,500	38 / 1,600	38 / 1,800	38 / 2,100
- FLA (480v)	2	2	2	3	3
Heat Pump (in/lbs)	38 / 1350	38 / 1440	38 / 1955	38 / 2050	38 / 2200
- FLA (480v)	36	51	60	71	91