

# DRYCLIMATE<sup>®</sup>

SERIES

## CRITICAL MISSION APPLICATIONS

Waste Water Treatment Plants

Clean Rooms

Spiral Freezer

Food Processing

Pneumatic Conveying

Silo Blanketing

Seed Storage

Greenhouses and Grow Rooms

Archival Storage

Surgical Suites

Pharmaceutical

Manufacturing

## ABOUT US

Climate by Design International (CDI), creates the climate you need to achieve your **critical mission**.

CDI designs and manufactures desiccant dehumidifiers and critical process air handlers for a wide array of applications including: ice arenas, hospital surgical suites, and food processing facilities.

It is our mission to design and manufacture the most effective solutions to indoor air problems, delivering the ideal environment for our customer.



*Keep it dry with CDI!*

# DRYCLIMATE<sup>®</sup>

## DESICCANT DEHUMIDIFIER SERIES



*Industrial Quality,  
at a Commercial Price.*



To contact an application expert, email [sales@cdihvac.com](mailto:sales@cdihvac.com)  
[www.cdihvac.com](http://www.cdihvac.com) | Owatonna, MN 55060 | 507.451.2198

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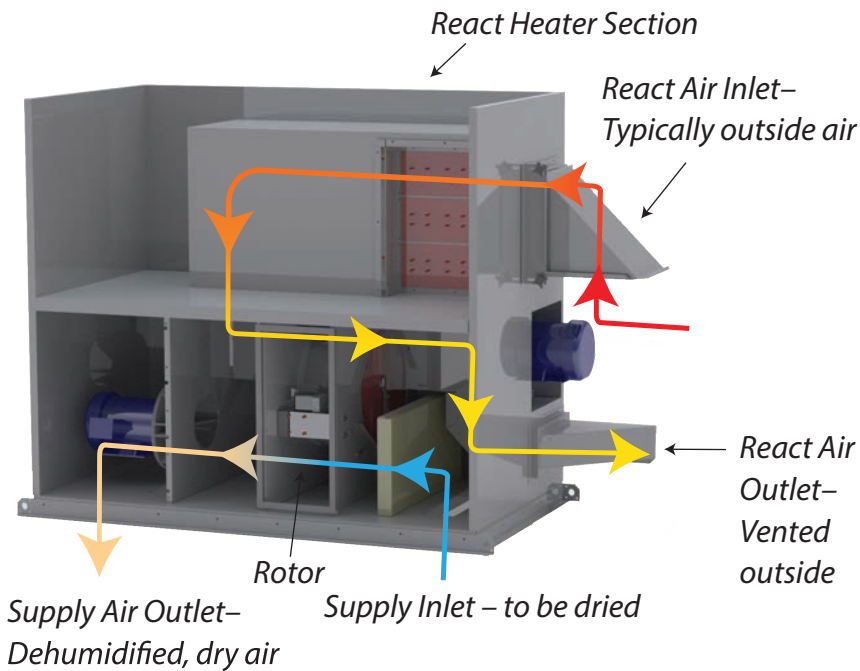
[www.cdihvac.com](http://www.cdihvac.com) | Owatonna, MN 55060 | 507.451.2198





## FEATURES

- Active desiccant system with:
  - Industry leading 7 year rotor and cassette warranty
  - Industrial chain drive
- Industry leading media and seal life
- Industrial construction featuring:
  - Double-walled stainless steel construction with foam insulation
  - Compact design
  - Universal Base: curb or flat mount
- Integral lifting points
- Indoor/outdoor installation
  - Full PLC controls with user interface:
    - Optimized reactivation energy control
  - Separate high and low voltage cabinets (<120V) for safer access
    - Standard 65KAIC SCCR Rating



## OPTIONS

- Electric or gas reactivation
- Supply Fan VFD Option
- On/Off or Modulating Control
- RH, Dewpoint, Condensation Control
- Knock down Curb (14" single wall)
- Pre or Post Cooling Coil Box with controls
  - SS IAQ Drain pan
  - G-90 galvanized or SS construction
  - Chilled water or DX cooling coil modules

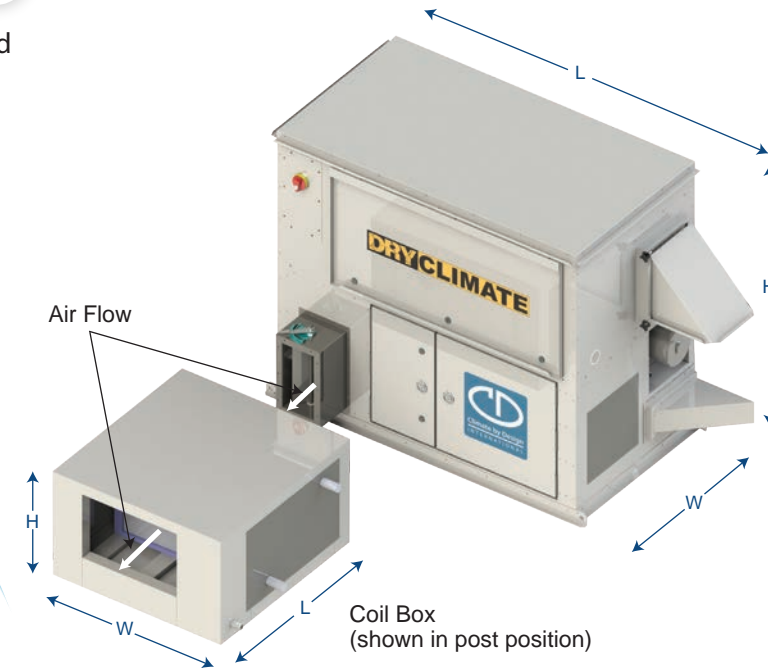
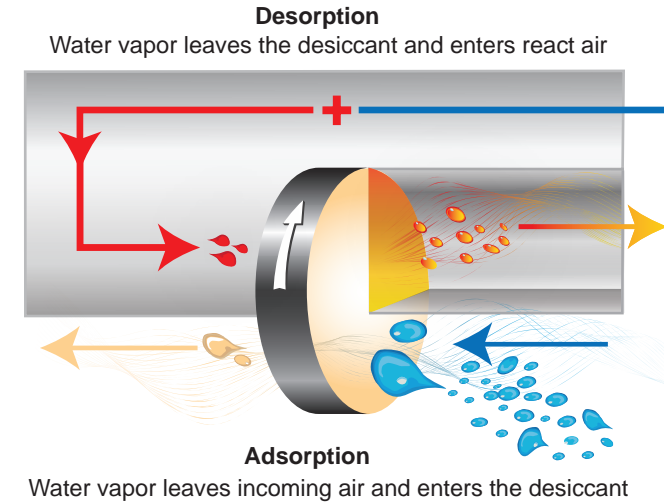
Voltage & Reactivation Options <sup>(1)</sup>		
	Electric	Gas
Product	575V/3PH 208V/3PH 230V/3PH 460V/3PH	208V/3PH 230V/3PH 460V/3PH
DC-500 - 750	✓	
DC-1000 - 1500	✓	✓
DC-1750 - 2250	✓	✓

<sup>(1)</sup> 3 Phase 60 Hz

Supply Duct Connection Options		
Location	Inlet	Outlet
Left Side		✓
Right Side		✓
End	✓	
Bottom	✓	✓

## ACTIVE DESICCANT TECHNOLOGY

Provides 40°F + dew point reduction as both adsorption and desorption are simultaneously driven by water vapor equilibrium of air and desiccant.



## Technical Specifications

	Product	DC-500	DC-750	DC-1000	DC-1500	DC-1750	DC-2250
<b>Unit Physical Data <sup>(1)</sup></b>							
Length (L)	[in]	61.5	61.5	74.5	74.5	74.5	74.5
Width (W)	[in]	33.75	33.75	33.75	33.75	33.75	33.75
Height (H)	[in]	51.0	51.0	61.0	61.0	61.0	61.0
Approximate Unit Weight	[lb]	875	875	1,120	1,120	1,120	1,120
<b>Coil Box</b>							
Length (L)	[in]	34.0	34.0	34.0	34.0	34.0	34.0
Width (W)	[in]	30.0	36.0	36.0	40.0	48.0	50.0
Height (H)	[in]	21.0	21.0	27.0	33.0	33.0	33.0
<b>Process Air Data</b>							
Process Air Volume	[scfm]	500	750	1,000	1,500	1,750	2,250
External Static Pressure	[in W.C.]	2.8	1.5	2.1	1.9	2.1	2.0
<b>Reactivation Air Data</b>							
Reactivation Air Volume	[scfm]	125	200	250	375	450	575
External Static Pressure	[in W.C.]	1.8	0.9	1.3	2.2	1.9	1.2

<sup>(1)</sup> Actual weights and dimensions to be done during quotation and submittal.

Continual engineering and research for product improvement may result in design and specification changes. Consult factory for certified technical data.