ARID-Dry® by Climate by Design INTERNATIONAL

MS 2400/2000

FEATURES:

- 20" Supply & Return Duct Collars with Protective Covers
- 12" Reactivation Inlet & Outlet Duct Collars with Protective Covers
- Weatherproof Construction – Stainless Steel single wall construction
- Fork tube pocket base
- Desiccant wheel with drive system
- Full perimeter chain drive with lifetime rating
- Silicone wiper seals with a 10-year rating
- Backward incline non-overloading fans – Process Air
- Power connection including Cam style locks for easy field connection
- Tooled access doors
- Operation and Fault Indicator Lights
- Hour Meter
- High/Low Electric React Capacity switch
- Phase monitor protection
- Remote Humidistat Ready Plug
- Replaceable filter 2" 30% MERV 8

OPTIONS:

- (4) Swivel Locking Casters
- Structurally Certified Protective/Stacking Cage (bolted)
- Remote Humidistat (with 50' of cord)
- Supply & Return Ducting
- Reactivation Inlet & Outlet Ducting
- Ducting Accessories
- Gas Reactivation
- 100' of #2 Power Cable Kit
- Lay Flat (Clear)

ETL CERTIFICATION

- UL1995/CSA C22.2 No. 236

C ETL LISTED US
Intertek

Climate by Design INTERNATIONAL

CDI creates the climate you need to achieve your critical mission.

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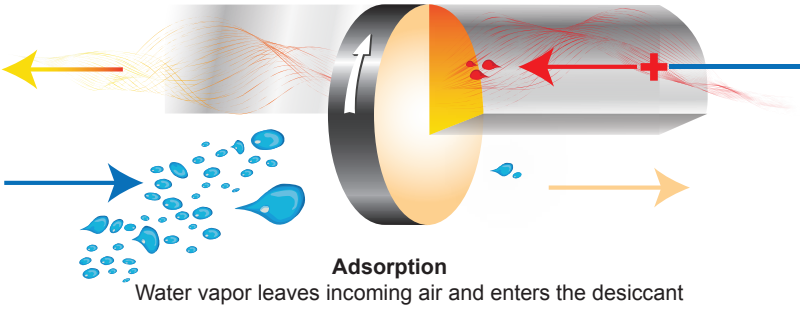
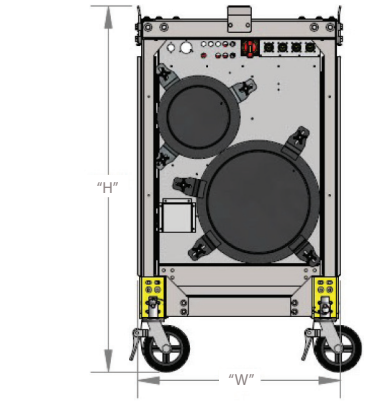
ACTIVE DESICCANT TECHNOLOGY

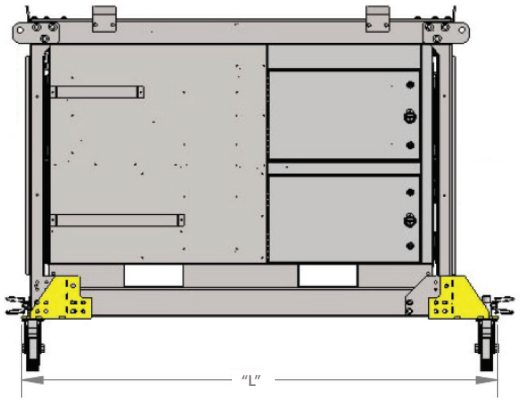
Provides 40°F + dew point reduction as both adsorption and desorption are simultaneously driven by water vapor equilibrium of air and desiccant.

Desorption
Water vapor leaves the desiccant and enters react air



Adsorption
Water vapor leaves incoming air and enters the desiccant





Technical Specifications*

	Product	MS-2400/2000	
*Unit Physical Data**			
Length (L)	[in]	89	
Width (W)	[in]	35	
Height (H)	[in]	63**	
Approximate Unit Weight	[lb]	1,250	
Utility Data		*Electric*	*Gas*
FLA React Heater Load	[amps]	44	0
FLA	[amps]	50.5	21.2
MCA	[amps]	63.1	26.5
MOP	[amps]	70	40
Voltage Options		*Electric*	*Gas*
Electric Reactivation	[V/PH]	460/3	230/1
Supply Air Data			
Process Air Volume	[scfm]	2,400	2,000
External Static Pressure	[in W.C.]	0	2.0
Reactivation Air Data			
Reactivation Air Volume	[scfm]	553	
External Static Pressure	[in W.C.]	0.5	
Generator Size		*Electric*	*Gas*
Minimum	[kw]	50	8
Gas Sizing			
Pipe Size, NPT	[in]	1/2	
Gas Inlet Pressure	[in W.C.]	7-14	
Gas Max Usage NG	[MBTUH]	120	
Gallons/HR Max Usage LP	[Gal/hr]	1.3	
Propane Tank Size			
Minimum	[gallons]	120	

Moisture Removal Capacity

Nominal Moisture Removal (lb/hr)						
Entering Air Dry Bulb (°F)	Entering Air Relative Humidity (%)					
	80	70	60	50	40	30
80	54	53	51	47	39	31
75	54	53	50	46	38	30
70	55	53	49	44	37	28
65	54	51	48	41	34	25
60	52	49	44	38	30	23
55	49	45	39	33	26	19
50	45	40	34	28	23	17
45	39	34	29	24	19	14
40	33	28	24	20	16	11

Nominal Moisture Removal (Gallon/Day)						
Entering Air Dry Bulb (°F)	Entering Air Relative Humidity (%)					
	80	70	60	50	40	30
80	154	152	146	134	112	89
75	154	152	143	132	109	86
70	157	152	140	126	106	80
65	154	146	137	117	97	72
60	149	140	126	109	86	66
55	140	129	112	94	74	54
50	129	114	97	80	66	49
45	112	97	83	69	54	40
40	94	80	69	57	46	31

**Actual weight and dimensions to be provided at time of quotation and submittal.*

*** With cage and caster options included.*

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

Climate by Design INTERNATIONAL

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MADE IN USA