ARID-Dry®
by Climate by Design
INTERNATIONAL

MS 6000/5000

FEATURES:

- 20" Supply & Return Duct Collars with Protective Covers
- 20" Reactivation Inlet & Outlet Duct Collars with Protective Covers
- Weatherproof Construction – Stainless Steel with double wall insulated cabinet
- Fork tube pocket base
- Desiccant wheel with drive system
- Full perimeter chain drive with lifetime rating
- Viton 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
- Gas Pressure Gauges for inlet and operating pressure (Units w/gas reactivation)
- Hour Meter
- Phase monitor protection
- Remote Humidistat Ready Plug
- Operation and Fault Indicator Lights
- Circuit breaker protection for motors and heaters
- High/Low Elec. React. Capacity switch
- NEMA 3R Electrical control panel
- Replaceable filter 2" 30% MERV 8
- Structurally Certified Protective/Stacking Cage (bolted)

OPTIONS:

- Electric Reactivation
- Tri-Fuel Capabilities (Electric with Natural and Propane Gas)
- Remote Humidistat (with 50' of cord)
- Supply & Return Ducting
- Reactivation Inlet & Outlet Ducting
- Ducting Accessories
- 100' of #2 Power Cable Kit
- Lay Flat (Clear)
- Variable Frequency Drive (VFD)

ETL CERTIFICATION

- UL1995/CSA C22.2 No. 236

Intertek

Climate by Design
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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-6000/5000	
Unit Physical Data			
Length (L)	[in]	100.7	
Width (W)	[in]	50	
Height (H)	[in]	91.13	
Approximate Unit Weight	[lb]	3,600	
Utility Data		*Electric*	*Gas*
FLA React Heater Load	[amps]	125	0
FLA	[amps]	147.3	21.8
MCA	[amps]	184.1	27.3
MOP	[amps]	200	30
Voltage Options			
Electric Reactivation	[V/PH]	460/3	
Supply Air Data			
Process Air Volume	[scfm]	6,000	5,000
External Static Pressure	[in W.C.]	0	5
Reactivation Air Data			
Reactivation Air Volume	[scfm]	1,400	
External Static Pressure	[in W.C.]	0.5	
Generator Size		*Electric*	*Gas*
Minimum	[kw]	150	28
Gas Sizing			
Pipe Size, NPT	[in]	3/4	
Gas Inlet Pressure	[in W.C.]	7-14	
Gas Max Usage NG	[MBTUH]	395	
Gallons/HR Max Usage LP	[Gal/hr]	4.3	
Propane Tank Size			
Minimum	[gallons]	200	

Moisture Removal Capacity

Nominal Moisture Removal (lb/hr)						
Entering Air Dry Bulb (°F)	Entering Air Relative Humidity (%)					
	80	70	60	50	40	30
80	158	150	136	119	101	80
75	156	146	131	115	96	75
70	151	140	125	108	90	69
65	145	131	116	100	82	62
60	134	120	106	89	72	55
55	121	107	93	78	62	47
50	106	93	80	67	53	40
45	91	79	68	57	45	33
40	76	67	57	47	37	27

Nominal Moisture Removal (Gallon/Day)						
Entering Air Dry Bulb (°F)	Entering Air Relative Humidity (%)					
	80	70	60	50	40	30
80	452	429	389	340	289	229
75	446	418	375	329	275	215
70	432	400	358	309	257	197
65	415	375	332	286	235	177
60	383	343	303	255	206	157
55	346	306	266	223	177	134
50	303	266	229	192	152	114
45	260	226	194	163	129	94
40	217	192	163	134	106	77

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

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

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MADE IN USA