



Dehumidification • Precision Air Conditioning  
Humidification • High Heat Density Solutions

# DESICAIR®

Superior Desiccant Dehumidification



**Stulz Air Technology Systems, Inc. (SATS)** is dedicated to providing innovative solutions to environmental control needs through the design and manufacture of specialized temperature and humidity control equipment, for commercial, industrial and custom military applications.

Since its beginnings in Hamburg, Germany in 1947, Stulz has expanded its presence into major markets around the globe. With production facilities in the USA, Germany, Italy, China & India, Stulz now employs over 3,000 people worldwide. In addition to production facilities, Stulz utilizes a network of subsidiaries and numerous sales partners, providing services in all five continents.

Through a commitment to research and development Stulz continually strives to make products more efficient. This commitment to excellence along with a standard two year warranty, fast lead times and outstanding customer service make Stulz the perfect choice for all your environmental control needs.

## DESICAIR® Dehumidification

### Industrial Applications

DESICAIR® dry desiccant industrial dehumidifiers provide precise precision humidity and/or temperature control (humidity levels from 60°F dew point to as low as minus 100°F dew point) of either a room or process air stream, as may be required for discriminating manufacturing and operating conditions.

### Water/Remediation

DESICAIR® portable desiccant dehumidifiers are designed primarily for the water damage and mold remediation industry. The rugged, portable self contained, compact design makes them easily maneuverable into tight spaces.

### Rental Equipment

Superior desiccant dehumidification for the rental industry, designed and manufactured specifically for portability, severe duty and hostile environments. Available in 3000, 5500 and 9000 cfm capacity.



Stulz Air Technology Systems, Inc. (SATS) is dedicated to providing innovative solutions for critical temperature and humidity control needs. SATS designs and manufactures specialized environmental control equipment for commercial, industrial and custom applications. SATS combines a global network of sales and service companies with an extensive factory engineering staff and highly flexible manufacturing resources dedicated to providing world-class quality, innovation and customer service.

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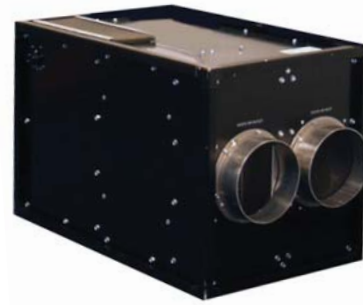
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## DH-Series

*The DH-100 produces dry air to prevent corrosion, increase readiness, reduce maintenance, and improve Mean Time Between Failure (MTBF) for electronic systems*

### Compact design

- 17.07"H x 15.94"W x 25.25"L and weighs only 46 lbs.

### High capacity

- Delivers 100 scfm and removes 48 lbs. of H<sub>2</sub>O/24 hrs at 90°F/75% RH.

### Solid construction

- Built with rugged, aluminum frame and panel construction all anodized black.

### Control Panel

- Simple on-off-auto switch with integral humidistat control.

### Specifications

Process Volume (CFM):	100
Moisture Removal (lbs/hr):	2.0*
Heater Watts:	1350
ESP Process (in wc):	0.3
ESP Regen (in wc):	0.3
Utilities:	115V/60Hz, 1ph
Full load amps:	13.0

\*@90°F / 75%RH inlet conditions

The DESICAiR® Series 1000 & 2000 models are industrial duty, dry desiccant dehumidifiers. Engineered to operate under severe operating conditions, the DESICAiR® Series 1000 & 2000 uses the most advanced desiccant technology available to remove moisture directly from the air. Humidity can be reduced to levels well below that which is achievable with a conventional refrigerant based dehumidification system.

## Series 1000

150 to 600 scfm

- Versatility: Space or Process Conditioning
- Portable Units Available
- Flexibility - A Range of Options to Meet Your Needs
- Code Conformance - NRTL Cert. to UL 1995 Stds. (some models)
- Internally Isolated Air Paths
- Solid State Control of Electric Reactivation Heaters
- Wide Selection of System Control Schemes



## Series 2000

750 to 12,000 scfm

- Range of Options to meet your needs:
  - Electric, Gas or Steam Reactivation
  - Round or Square Duct Connections
  - Status Indicator Lights
  - Remote Unit Starting/Monitoring
  - Insulated Cabinets
- NRTL Standard on Electric & Steam Reactivation Units optional on Gas Reactivation Units
- Optional Blower Configurations
- Dual-Double Lipped, Continuous High Temperature Silicone Seals



### Features of DESICAiR® Series 1000 & 2000

- Heavy Duty - all aluminum light weight cabinet construction
- NEMA Rated Electrical Enclosure
- Solid State Controls: Precision humidity management with unrivaled, user friendly controls
- TEFC Blower Motors - Standard
- Standard Cabinet manufactured for outdoor Installation
- Bearing Mounted Rotor - (no plastic rollers)
- Rotary Style Desiccant Rotor - Long Life, Maximum Performance - Minimal Maintenance
- Industrial Control Panel UL508A listed

## Series 2900

*High Capacity Portable Desiccant units for large remediation projects*

Available in 3000, 5500 and 9000 CFM

- Forklifting slots for easy portability
- Power cable storage
- Direct drive fans - except SD2-9000
- Cabinet, Skid base and ALL framing manufactured in heavy duty welded aluminum - except SD2-9000
- Full complement of safety shutdowns: reactivation air proving, Overheat protection, Phase/voltage Available in electric or propane reactivation
- Light weight - reduces mobility cost
- Round duct openings for round flex ducting
- Phase/voltage monitoring of incoming power
- Main power disconnect with branch circuit protection
- 5 year rotor warranty, 24 month parts warranty
- Operating and Fault indicator lights



### High Capacity Moisture Removal

Unit Performance  
(based on AHAM inlet air conditions of 80°F, 60% relative humidity)

- 3000 CFM Unit: 90 lbs per hour
- 5500 CFM Unit: 170 lbs per hour
- 9000 CFM Unit: 295 lbs per hour

## Series 500

*Designed primarily for water damage remediation service. The unit is portable, self contained and is designed for maneuverability in small spaces.*

### Portability / Maneuverability

- Self contained
- Skid or Wheel Mounted
- Single Point Power Connection
- Heavy Duty Wheels on Solid Steel Axle

### Solid construction

- All rugged aluminum cabinet construction
- Gauges for balancing air flow across rotor
- Air Inlet Filters: 30% Pleated
- Proportional controlled electric reactivation
- Built in air proving and temperature overheat protection

### Control Panel

- "D" Stat Control - simple On-Off-Auto-selector switch with indicator lights.
- Run Time hour meter
- Microprocessor control of reactivation energy



### Specifications

Process Volume:	700 CFM
Moisture Removal:	16.6 lbs/hr*
Heater Watts:	9.0 kW
ESP Process:	2.5" wc
ESP Regen:	1.0" wc
Weight:	330 lbs
Dimensions:	70.2" x 24.8" x 36.8"
Full load amps:	50.8 @ 230/1/60

\*@75°F / 50%RH inlet conditions

The Series 500 also includes a unit with 500 CFM (call factory for specifications)

## Series 6000

*Commercial and Industrial Applications*

*The DryHandler Plus is a self-contained defined product available in eighteen incremental sizes with optional pre- and post- cooling modules.*

### Benefits:

- Industrial design offers precision humidity control
- Desiccant technology removes water directly from air
- Non-cyclic operation; continuous and concurrent water removal

### Features:

- Welded, unitized aluminum cabinet
- Single, or double walled construction
- Advanced silica-gel rotor
- Electric, gas, or steam reactivation heaters
- Optional blower configurations
- Pre-designed cooling modules for CW or DX
- High efficiency filtration

