



Photo courtesy of U.S. Navy



**ARID-Dry®**  
Restoration and Construction  
Drying Equipment  
Mobile Desiccant Dehumidifiers  
Temporary Humidity Control



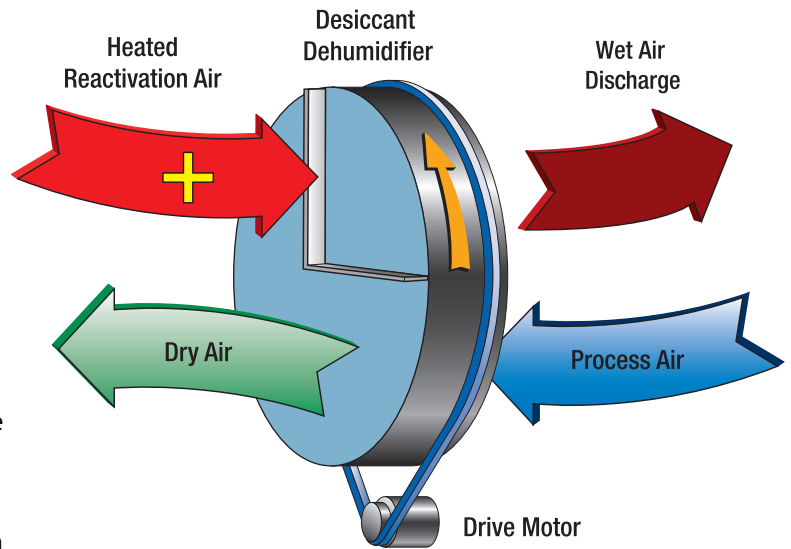
# INTRODUCING CDI

Climate by Design International (CDI) is a flexible engineering and manufacturing company building large-capacity desiccant dehumidification systems for a wide variety of industrial and commercial applications.

The ARID-Dry® mobile product is comprised of large-capacity desiccant dehumidifiers to remove ambient water vapor from air. Large-capacity desiccant dehumidification units are used in a variety of industries, including water damage and remediation, document drying, industrial surface preparation for coating, mold and fungus prevention, long-term lay-up of industrial equipment, and industrial condensation prevention. We have the capability to incorporate many additions to provide complete solutions for the temporary humidity control market.

Special attention is paid to construction details to provide a resilient unit capable of meeting the demands of the rental and temporary humidity control market. The units incorporate state-of-the-art features to maintain peak efficiency. Our wide variety of sizes can be applied from the smallest residential project to the largest commercial industrial project.

*Our goal is to maintain the highest ethical standards and professionalism in order to best satisfy our customers.*



## Desiccant Dehumidification

A simple solution to an old problem. Solid desiccant rotor adsorbs moisture from process air. Heat is used to "reactivate" the desiccant.

### Why Use ARID-Dry® Desiccant Technology?

- Very dry air can be achieved.
- **Better thermodynamic efficiency:** Achieved because no change of phase (condensation) is necessary.
- **Simple construction:** Basic dehumidifier includes only two fans, a heater and the desiccant rotor assembly.
- **Simple maintenance:** Simply replace filters regularly and performance is assured. A yearly inspection by our service technicians is recommended to head off unscheduled outages.
- **Better Construction:** Double-wall insulated casing suitable for indoor or outdoor mounting. The MS 2400/2000 and MS 5000/4000 have stainless steel single wall weatherproof construction
- **Modern Controls:** CDI includes standard intelligent microprocessor controllers with "Fail-Capable" mode.

### Better Humidity Control Through ARID-Dry® Design

- **More Sizes:** Units range from 2000 to 18000 CFM.
- **More Flexibility:** Total system integration is available including heating, cooling, enthalpy recovery, and special filtration. Even custom configurations are available to meet unique project requirements.
- **More Support:** Application engineering assistance, start-up and owner training, and preventative maintenance programs offered by CDI.



Climate by Design International (CDI), **ARID-Dry** mobile desiccant dehumidifiers provide temporary humidity control for water damage and restoration, mold and fungus prevention and new construction dehumidification.

When drying interior spaces, humidity control is crucial. An ARID-Dry mobile dehumidifier increases your productivity and profitability. The advantages of using large capacity mobile dehumidifiers with your projects are many. You can get more consistent drying cycles, faster and more consistent drying times. It's also the most effective system on the market, outperforming refrigeration and convection-style heat-drying methods.

ARID-Dry units are the leading solutions available for quickly and efficiently removing ambient water vapor from air. Useful in surface preparation, painting and coating and industrial condensation prevention, ARID-Dry is the best-in-class dryer available.

### **Water Damage and Restoration**

When building materials come in contact with water due to piping failures, flooding or storms, losses can be contained by quickly drying out the structure. Desiccant dehumidifiers are used to quickly provide a low-dewpoint air stream to facilitate restoration of the structure. The low dew point acts as a sponge to pull moisture from building materials.

### **Mold and Fungus Prevention**

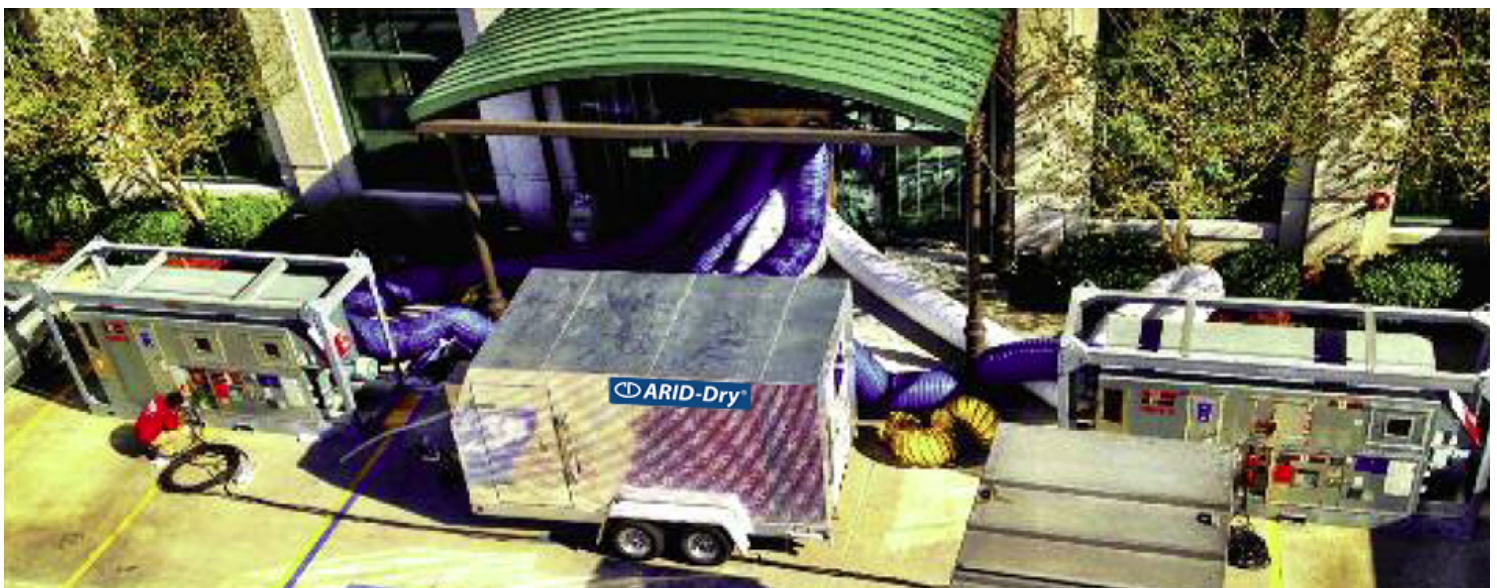
Mold and fungus are normally dormant. When a building or structure is exposed to high humidity levels or liquid water due to flooding or leaks, the mold will proliferate rapidly. Drying out a structure completely and quickly is important to reduce the possibility of mold contamination. Desiccant dehumidifiers are the most cost-effective way to provide the deep drying needed to extract water from the building and interior components.



*MS 18000/15000*



*Skid-mounted - MS-6000/5000*



*Skid-mounted - MS-6000/5000 with 18,000 SCFM trailer-mounted advanced filtration system.*





## Restoration and Construction



MS-6000/5000

### New Construction Dehumidification

Many materials used in new construction contain large quantities of water. Concrete and other construction materials evaporate water as they cure. If the material is covered before all the water has evaporated, hidden mold can form, causing odors and potential mold contamination. Modern construction technicians are now using desiccant dehumidification to reduce the possibility of mold contamination, and, in many cases, speed the drying process. This can result in faster construction schedules.

Climate by Design International (CDI) builds the largest-capacity mobile dehumidifier available. Systems utilize natural gas, propane, or electric reactivation.

ARID-Dry is more thermodynamically efficient because there's no change-of-phase necessary. It's simple design makes it highly reliable, while our superior construction makes the system dependable day-in and day-out in the most demanding environments. Our intelligent microprocessor even makes using ARID-Dry equipment easy to monitor!

# ARID-Dry MOBILE PRODUCTS

CDI is the largest mobile dehumidifier systems manufacturer in North America. Our equipment is offered by the largest heavy equipment renters in the United States.

Choose from an extensive line of dehumidifiers for jobs of all sizes, with lots of options and world-class support to make sure you're on the right track.

To increase profits and build your business, you need the best.  
You need ARID-Dry.



*MS 2400/2000 Caster Mounted*



*MS 5000/4000*



*MS 6000/5000*



*MS 18000/15000*



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