



Climate by Design
INTERNATIONAL

ARID-Ice® Dehumidification Series



Keep it Dry with CDI

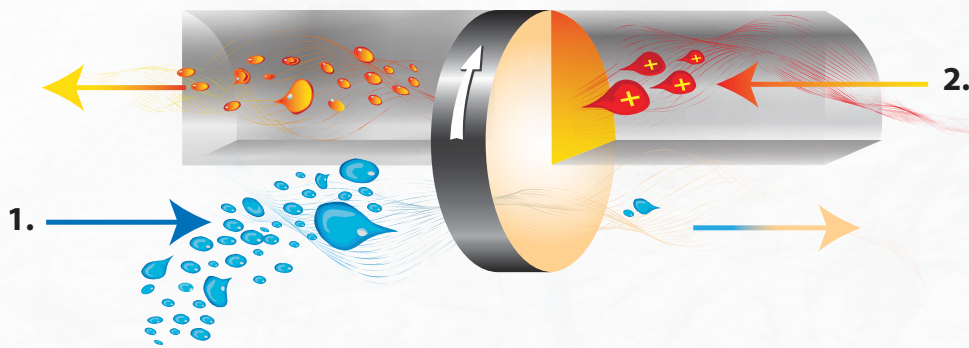
Keep it Dry with CDI

Why Use Desiccant Technology?

- Very dry air can be achieved.
- **Thermodynamic efficiency:** Achieved because no change of phase (condensation) is necessary.
- **Better construction:** Double-wall insulated casing suitable for indoor or outdoor mounting.
- **Simple maintenance:** Simply replace filters regularly and performance is assured. A yearly inspection by our service technicians is recommended to head off unscheduled outages.

Desiccant Technology

Creating the climate you need to achieve your critical mission



Dedicated desiccant air-supply units provide low-humidity conditions necessary to maintain a dry environment. It's a simple solution to an old problem.

The solid desiccant rotor adsorbs moisture from process air [1]. The moisture is taken out of the rotor by a second and separate reactivating airstream [2]. This process enables the rotor to continually take moisture out of the airstream without interruption.

ARID-Ice® Dehumidification Series

- **More Sizes:** Process air flow range of 1,500 to 15,000 SCFM.
- **More Support:** Application engineering assistance, start-up and owner training, and preventative maintenance programs offered by CDI.

Configurable Components *Match Your Critical Process*

Typical Components:

- Process and reactivation MERV 8 filters.
- Direct gas fired, steam, or electric reactivation.
- Heat Recovery.
- 2" double wall insulated casings.
- Standard intelligent microprocessor controllers with "Fail Capable" mode and full building integration capable of using BACnet™, Modbus®, or LonWorks®.



Desiccant Technology at Work

ARID-Ice® Dehumidification Series

Uncontrolled humidity does not need to be a problem. By providing dry air, you can control threats to health, safety, product and a myriad of costs. Dry air is a solution to corrosion, bacteria, and mold. By Using a CDI ARID-Ice® Dehumidification Series unit, you can have independent control of humidity.

Ice Arenas



- Controls humidity to stop fog, mold growth, and dripping ceilings.
- Skaters appreciate improved ice conditions and spectators are more comfortable.
- Minimizes the cost of running rink refrigeration systems while eliminating humidity concerns.
- Most efficient and economical solution to ice arena humidity.
- Resurfacing is needed less frequently.
- Low dewpoint capability provides the best method to dehumidify indoor ice arenas for hockey, figure skating, speed skating and curling.

Why Buy CDI?

Application Knowledge

We don't just offer fine equipment! With years of ice arena experience, we know what makes your arena tick. Services range from dehumidifier sizing to installation and other factors about your arena that affect the outcome of your project. We can work with your design team or engineer to prevent common errors.

Configurability

Simply put, have it your way!

Quality

Our goal is to provide our customers with superior, energy-efficient solutions for indoor air quality.

Service

With our trained and equipped field service technicians there is always someone near you to assist. Services range from preventative maintenance to prescriptive plans for a specific application. 24/7 customer service hotline available.



Who We Are

Climate by Design International, Inc., formerly Concepts and Designs, Inc. (CDI) was founded in 1991 in Owatonna, Minnesota.

CDI provides customers with a broad array of custom HVAC options. Years of HVAC industry experience established the foundation for today's thriving company.

Our products offer indoor air quality solutions for numerous markets: Hospital Surgical Suites, Food Processing, Ice Arenas, Water Treatment Plants, Pharmaceuticals, Automotive, Rental, Aviation and all types of facilities requiring controlled air climates. We have provided climate control products to numerous countries including: USA, Canada, Mexico, Australia, Guinea, Russia, China, India, and Israel.

We offer catalogued standard product for application specific projects, as well as configurable or custom built solutions.

We serve our customers well by producing quality products and services while building and maintaining relationships based on honesty and integrity.

Contact our application specialists to learn how you can benefit from Desiccant Dehumidification.



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