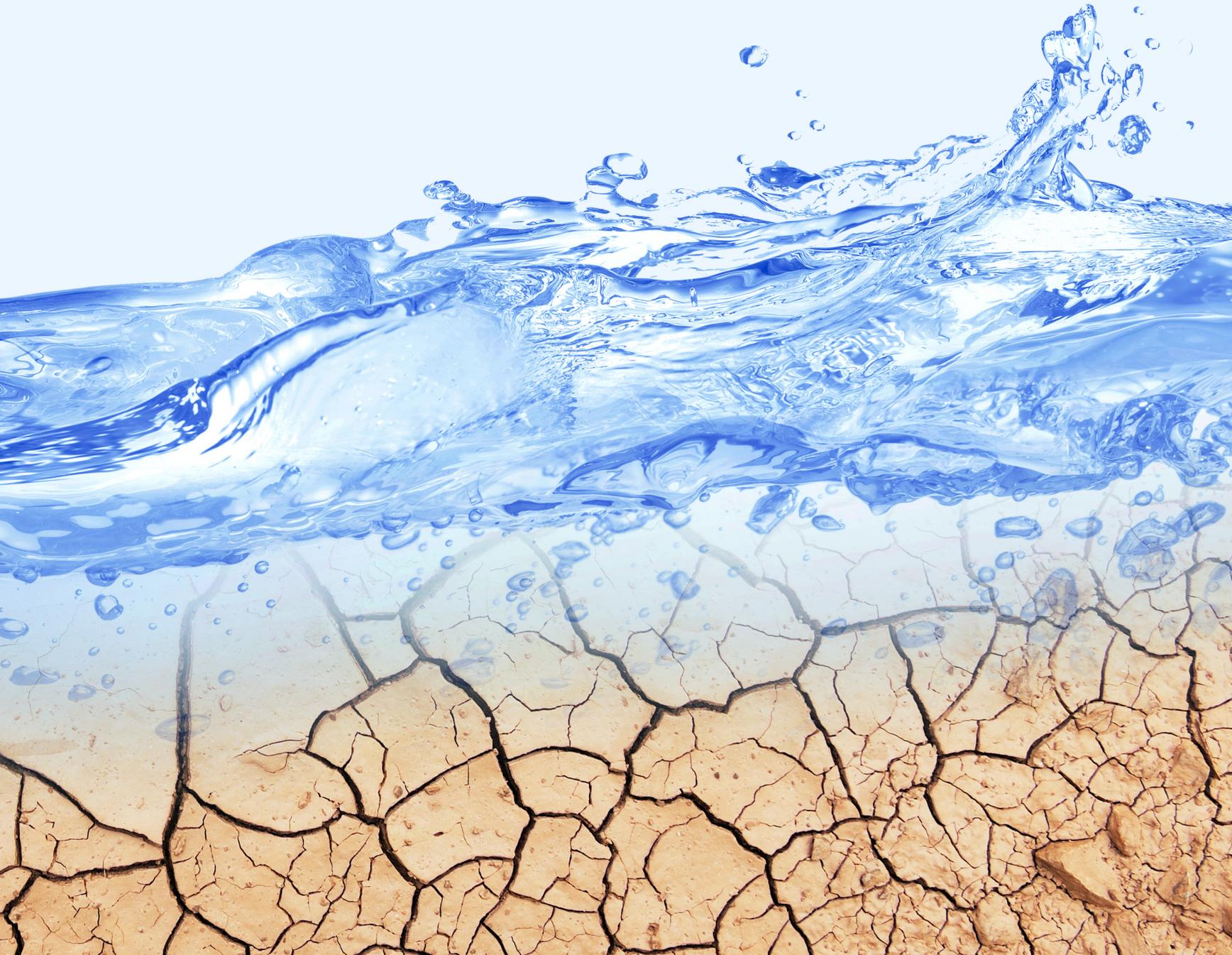




# **INNOVATIVE AIR**

## TECHNOLOGIES

### **DESICCANT DEHUMIDIFIERS**





# WHO IS INNOVATIVE AIR TECHNOLOGIES?

**Innovative Air Technologies** was founded in 2001 as a manufacturer of low-humidity desiccant dehumidifiers. Since our inception, we have been utilizing state-of-the-art technologies and using 50+ years of experience to solve some of the world's most complex moisture and temperature control challenges. Whether it is missile engine testing or food processing applications, we have built it.

Our vision is to enrich the lives of our customers by offering quality, flexible, value-driven solutions for any dehumidification application. Please review our brochure and contact us if you have any questions regarding our equipment.



## ? WHAT IS DESICCANT?

Desiccant is anything that has a high affinity for water. That stuff that comes in your jacket pocket or in your electronic packaging? That's Silica Gel. One of the best Desiccants on the planet. We utilize Silica Gel in our equipment and that is the driving force behind our technology. That and our good looks.



## HOW OUR PRODUCTS WORK?

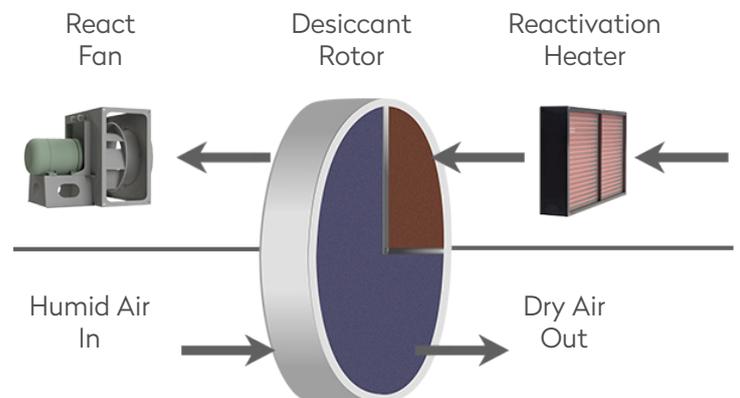
Our equipment removes moisture from the air by means of a desiccant: a substance that adsorbs water (in a vapor state). This desiccant is fused into paper sheets, then wound into a wheel (called the rotor).

The rotor is divided into two sectioned air streams: the process section and the reactivation section.

When the processed air passes through the rotor, the moisture in the air stream is adsorbed by the rotor, leaving the dried air to be sent to the designated space.

The water from the processed air now needs to be removed from the rotor to continue the indefinite process.

The reactivation air provides this task. The air stream is heated to 270°-310° F. This heat passes over the rotor and sets free the bound water. This air stream is extremely humid and is ducted outside.





# NOW THAT I KNOW WHAT A DESICCANT DEHUMIDIFIER IS, WHERE ARE THEY USED?

Every year, we find more industries that benefit from the results of dry air by using our equipment.

Food processing, Scientific labs, Electronic manufacturing, Pharmaceutical industries, and battery manufacturing all have a tremendous need for dry air in their processes.



Your potato chips?

Dried by our equipment

Flavored sports drinks?

Dried by our equipment

Rockets for next-generation space travel?

Dried by our equipment

Steel belted tires?

Dried by our equipment

Your drinking water?

Not dried by our equipment

*(Just wanted to see who read this far and to keep you honest.)*

**The facts show that desiccant dehumidification is growing year after year. Any process that thrives in a moisture-free environment needs us!**



## COMPACT SERIES

Smaller Industrial Dehumidifiers  
75-600 CFM

The Compact Dehumidifiers are perfect for smaller applications like walk-in coolers that require hard-working humidity control and long-term performance reliability.

Upgraded back in early 2015, we have taken all the fantastic features our customers loved about our previous design and utilized them in our newest design!

New features include a stainless-steel design and an upgraded desiccant wheel design that exceeds industry standards. We have also kept the open design layout that allows easy access to all the components for service and installation. Also, we do not utilize printed circuit boards that fail and require expensive repair costs as some of our competition uses.

We use stand-alone components that we stock, or you can find locally in a pinch because there is nothing worse than being on-site and not having access to replacement parts.



### TYPICAL APPLICATIONS

- ◆ Environmental Rooms
- ◆ Walk-in Freezers
- ◆ Archive Storage
- ◆ Display Cases
- ◆ Biological Refrigerators
- ◆ Candy Processing
- ◆ Pharmaceutical Production
- ◆ Advanced HVAC Systems
- ◆ And many more!

## ROTOR SERIES

Larger Flagship Dehumidifiers  
600-30,000 CFM

The Rotor Series dehumidifier is equipped with a high-capacity desiccant wheel and is designed for larger, more challenging applications than the smaller brother Compacts.

Typical applications include food processing, product drying, water treatment plants, and a host of other applications where larger CFMs are needed.

The Rotor Series is equipped with an internal aluminum skeleton that ensures ultimate rigidity throughout the dehumidifier and provides long-term durability. The large hinged access panels flows through every compartment allowing easy maintenance on every component.

Our Dehumidifiers come factory tested so installation is a breeze with only duct and electrical hookups in most cases.



### FEATURES

- ◆ Rugged, zinc coated steel with internal structural frame for maximum durability
- ◆ Four choices for reactivation: electric, steam, gas, or hot water.
- ◆ Simple, economical design. Very easy to service
- ◆ Chain driven, state of the art, desiccant wheel
- ◆ Circuit breakers (not fuses) to eliminate the need for costly maintenance

## PORTABLE SERIES

Dehumidifiers designed to be “on the go” !  
75-10,000 CFM



With portability being an important factor to contractors and people on the go, Innovative Air Technologies has designed a line of dehumidifiers that can go anywhere and stand up to the toughest challenges planet Earth has to offer.

Our Portable/Restoration Series Dehumidifiers are fully customizable to your standards. We do not manufacture one cookie-cutter design and make it work for you. You are in control of what options are selected for your Portable Series dehumidifier. Whether it is an external skid, lockable drawers, custom color change, or private label options, you control the design.

## IDP SERIES

Integrated Dehumidification Package  
50-30,000 CFM



Some customers require a dehumidification system that can handle the task of all distinct aspects of air treatment. Instead of a stand-alone dehumidifier that must be coupled with other forms of air treatment, we merge these components into one convenient package for the customer. This saves the customer from overspending and over-designing the system. With the difficulty of multiple design aspects left to us, the customer can put the focus back on their business.

The IDP Series is specifically designed to go the extra mile in total temperature and humidity control. We utilize all available options to give you the completely integrated dehumidification system you need.

## iControl

### TOTAL CONTROL OF YOUR DEHUMIDIFICATION SYSTEM

#### Simplicity guaranteed

**iControl** is designed and built to give you all the information about your desiccant dehumidification system in one convenient place while offering superior energy savings during non-peak times. Whether it is remote access control, touchscreen integration, or data logging you are concerned about, IAT's iControl will exceed your PLC expectations. Our custom iControl PLC system can be custom designed specifically for your company's control and monitoring needs.

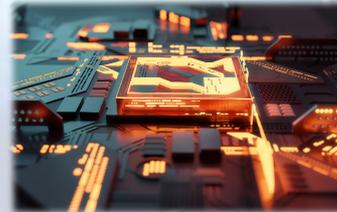
We offer a number of different options that cater to your specific automation needs. Some of the options include:

- ⇒ Multiple I/O Module options. Discrete and analog.
- ⇒ Screen sizes from 6" up to 15".  
Color and Monochrome
- ⇒ Remote data acquisition system.
- ⇒ Data logging capabilities.
- ⇒ Easy Ladder Logic programming.
- ⇒ Multiple Communication Modules.

and iOS/Android Tablet control options as well.



Data Logging for long term analysis



Powerful Computing



Multiple touch screen options

**CALL US TODAY TO DISCUSS WHAT WE CAN OFFER FOR YOUR PLC NEEDS!**

## MEET THE TEAM

It's always nice to put a face with a name. Innovative Air is immensely proud of the team that we've built to serve you. Our team members have a diverse range of experiences and capabilities, and each one takes great pride in offering our customers first-rate service. Read on to learn more about the people involved in your IAT experience.



**Kacy Orr** - [kacy@dehumidifiers.com](mailto:kacy@dehumidifiers.com)

President/CEO

Kacy, the future-oriented visionary, is constantly sharpening Innovative Air Technologies' master plan. He enjoys all aspects of running the company, but his true passions are sales and engineering. His major focus is ensuring that IAT can provide its customers with the resources they need to solve their humidity problems, as well as providing clients with a great relationship they will value for years to come. Prior to starting Innovative Air in 2001, Kacy worked full-time for Low Humidity Systems, which his father Jerry owned since 1981. He was born and bred on Desiccant Dehumidification.



**Crystal Hill** - [crystal@dehumidifiers.com](mailto:crystal@dehumidifiers.com)

Office Manager

Crystal has been with Innovative Air Technologies since the beginning back in 2001. She even was around working for Jerry back at Low Humidity Systems. She has 22+ years combined in customer service and all areas of office functions. She is an excellent multi-tasker and works hard to ensure all tasks are successfully completed.



**Grady Calcote** - [grady@dehumidifiers.com](mailto:grady@dehumidifiers.com)

General Manager

Grady, a Mechanical Engineer by training, has worked in various positions during his career from Design Engineer to Inside/Technical Sales to Director of Engineering. With over 30 years of experience in various manufacturing industries, he brings a wealth of knowledge and experience to the team that helps IAT supply the best products and services possible to enrich our customers' lives. In his current position, he guides the daily operations of IAT and helps lead the team to accomplish our strategic objectives. After being raised in the Army, he settled in Georgia where he met his wife and had three children. He has a passion for being outdoors and loves spending time with his two corgis.



**James Pope** - [james@dehumidifiers.com](mailto:james@dehumidifiers.com)

Engineering Manager

James grew up on the East Coast of Canada and holds degrees from New Brunswick Community College & Old Dominion University in Civil Engineering. James moved to the US with his family in 2010. James' love for engineering started at a young age working on electronic projects with his grandfather. After 20 years of engineering experience behind him, that original excitement to design and create only continues to grow. James joined the IAT team 3 years ago as a Design Engineer and was later promoted to Engineering Manager.



**Jerry Orr** - [jerry@dehumidifiers.com](mailto:jerry@dehumidifiers.com)

Humidity Consultant

If you are ever looking for someone who has experienced it all, look no further than Jerry. He has over 50 years of experience in the desiccant dehumidification and humidity control field. He owned and operated Low Humidity Systems from 1981-2001 when he decided to semi-retire and come to work for IAT as a humidity consultant. He served in the United States Air Force from 1959-1963.



**MADE IN AMERICA**



[www.dehumidifiers.com](http://www.dehumidifiers.com)

