



**INNOVATIVE AIR**  
TECHNOLOGIES

DESICCANT DEHUMIDIFIERS





# WHO IS INNOVATIVE AIR TECHNOLOGIES?

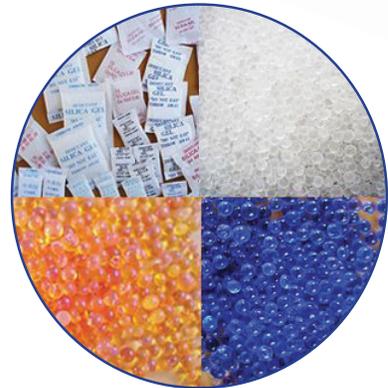
**Innovative Air Technologies** was founded in 2001 as a manufacturer of low humidity desiccant dehumidifiers. Ever since, we've been utilizing state of the art technologies and almost 50 years of experience to solve some of the world's most complex moisture and temperature control challenges. Whether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

It's our goal to provide our customers with the highest quality dehumidifiers at the most competitive price along with the customer service that can't be matched. Please review our site 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.



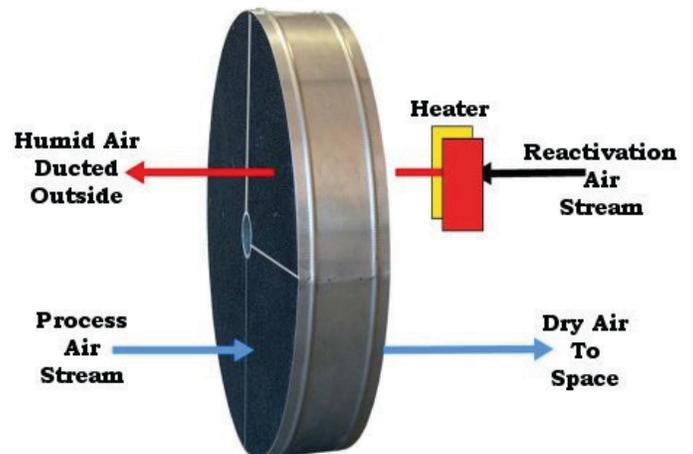
## HOW OUR PRODUCTS WORK?

Our equipment removes moisture from the air by means of a desiccant: a substance that adsorbs water (in a vapor state). This desiccant is impregnated into paper sheets which are 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 is passed 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 in order 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 and more industries that benefit from the results of dry air from our equipment.

Food processing, Scientific labs, Electronic manufacturing, Pharmaceutical industries, 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

75-300 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've taken all of the fantastic features our customers loved about our previous design and utilized them in our newest design!

New features include all stainless steel design and upgraded desiccant wheel design that exceeds the industry standards. We've also kept the open design layout that allows very easy access to all of the components for service and installation. Also, we don't 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 the 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 CFM's are needed.

The Rotor Series is equipped with an internal aluminum skeleton that ensures ultimate rigidity throughout the dehumidifier and provides long term durability. Large hinged access panels into every compartment allow easy maintenance on each and every component.

Our Dehumidifiers come factory tested so installation is a breeze with only duct and electrical hook up 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 issue 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 don't 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 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 different aspects of air treatment. Instead of a stand alone dehumidifier that has to 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 complete integrated dehumidification system you need.

## iPAK SERIES

Storage Dehumidification Systems



The iPak Series Dehumidifier was designed around Munitions Storage applications where temperature and humidity control was a problem. Instead of having two or more separate systems installed, the iPak is a one stop solution that also fits the intrinsically safe application.

Most Munitions Storage applications require 72F and less than 40% RH to eliminate corrosion on the munitions as well as comfort cooling/heating for the personnel involved.

The iPak Dehumidifier comes in two sizes that will certainly fit your Munitions storage requirements: 200 and 400 CFM models.

# iControl

## TOTAL CONTROL OF YOUR DEHUMIDIFICATION SYSTEM

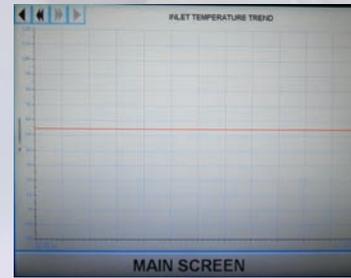
Simplicity guaranteed

**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's remote access control, touch screen integration or data logging you're 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 to cater to your specific automation needs. Some of them 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 very 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 17+ years' combined in customer service and all areas of office functions. She is an excellent multi-tasker and works hard to see successful completion of all tasks.



**Jeff Baxter** - [jeff@dehumidifiers.com](mailto:jeff@dehumidifiers.com)

General Manager

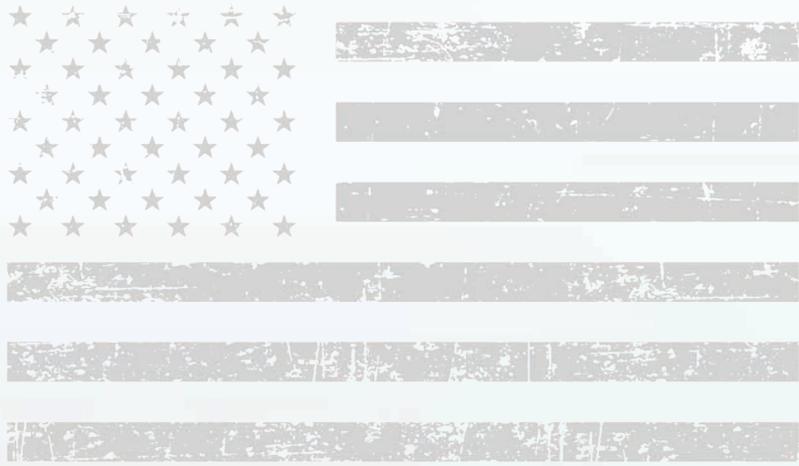
Jeff joined IAT in 2010. He currently manages all scopes of the operations at Innovative Air Technologies from initial job timeline to the final test and performance. His ongoing mission is to create an experience that is "tell your friends" worthy. He earned his Bachelor's degree from the University of Georgia in 2006. His professional background includes consulting, management, and customer service. Jeff currently resides in McDonough, Georgia with his wife Heidi and three children- AJ, Ty, and Mark.



**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 46 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)

