

## ICA WITH RIGHTDRY-DX™

Integrated custom air handler  
desiccant dehumidifier with heat pump  
technology

### FEATURES

- 50+% energy savings at 25°F – 40°F supply dew point
- Additional plant-wide energy savings
- Lowest Total Cost of Ownership
- Double wall, no-through metal design



## ICA with RightDry-DX™ Integrated Custom Air Handler

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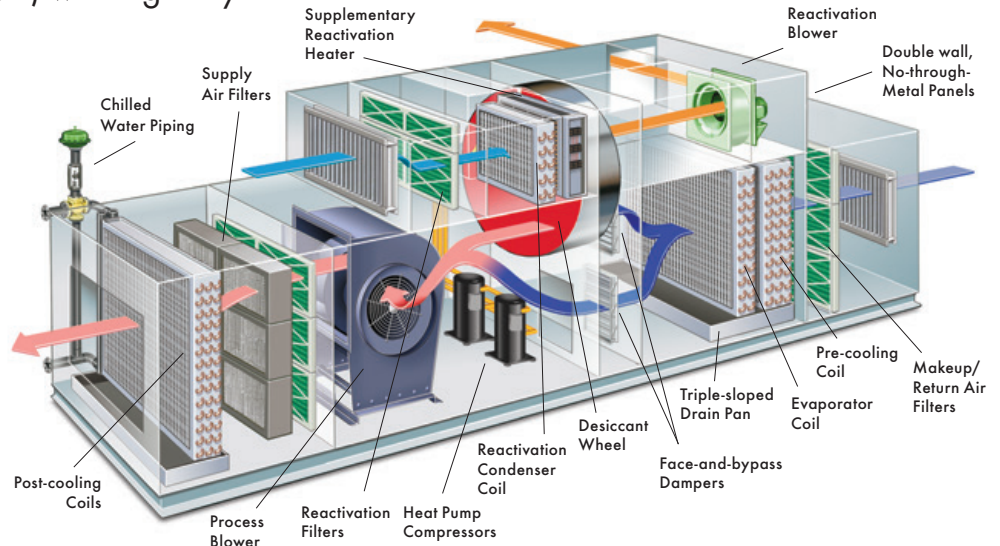
Munters Integrated Custom Air Handler (ICA) with RightDry-DX integrated a DX based heat pump into a desiccant dehumidifier. This allows Munters to provide additional pre-cooling to the process air and, at the same time, provide reactivation energy to the desiccant wheel, providing 50% yearly energy savings over standard dehumidification systems. This allows plants to raise their chilled water temperature up to 55°F, while still delivering 25°F to 40°F dew point to critical manufacturing processes of the building. The ICA with RightDry-DX has the lowest Total Cost of Ownership with a return on investment (ROI) of less than one year.

Munters ICA is available in multiple configurations capable of up to 100,000 SCFM. This system includes a dehumidifier with options for nine rotor sizes, high performance heating and cooling coils, and supply and return HEPA filters. In addition, the system is NRTL approved to UL standards and is manufactured in an ISO 9001:2015 certified facility.



# Integrated Custom Air Handler (ICA) with RightDry-DX™

- Double wall, no-through metal design
- Galvalume, aluminum or stainless steel interior and exterior casing
- Integrated DX heat pump with process evaporator, reactivation condenser and compressors
- Merv 8 - Merv 14 and HEPA filters available
- Nine rotor sizes available
- Airflows from 1,680 to 48,000 SCFM



## ICA Advanced Features

### Advanced Housing Design

Adaptable construction provides design flexibility, while large, smooth fitting panels create fewer joints; preventing leaks and improving sanitation. Sloped roof eliminates standing rainwater. System can be split to accommodate size constraints.

### Double Wall Construction

Surface options are galvalume, textured aluminum, stainless steel or any combination with option of: 2.5" Thick = R-16  
4.0" Thick = R-25

### Superior Panel Joints

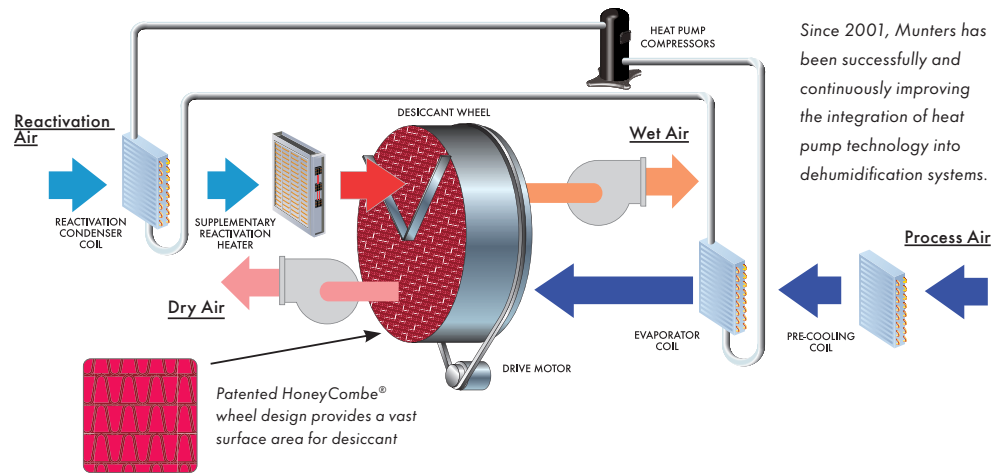
Cam and lock system fits panels tightly, preventing leaks at seams, while strengthening the housing.

### Clean-In-Place Design

Smooth surfaces, "seamless panel joints," and triple-sloped self-draining floors allow for thorough and fast interior washdowns.

### Access Doors

Munters manufactures its own access doors with triple seals to minimize air leakage. Door design maintains the no-through-metal feature. Available inward and outward swinging or plug design. Door surfaces match the interior and exterior of the system.



Since 2001, Munters has been successfully and continuously improving the integration of heat pump technology into dehumidification systems.

Patented HoneyCombe® wheel design provides a vast surface area for desiccant

### Controls

PLC based controls for the sequencing of the dehumidifier is provided as standard. Humidity is controlled with process face-and-bypass dampers, which provide tight and accurate control. Control options for temperature and airflow are available in either electric or pneumatic.

### Custom Options

A wide range of customer options are available with the ICA including; steam, chilled water, piping, high pressure fans, HEPA filtration and many more.

### Desiccant Rotor

Munters patented HoneyCombe® rotor is the heart of the system. As the only air handler manufacturer to build its own rotors, Munters has the expertise to match other system componentry with the rotor for maximized performance. The position of the desiccant rotor provides unprecedented accessibility, and "cleanability," while maintaining a small footprint.

By optimizing the rotor design and integrating the heat pump technology, Munters has improved the energy efficiency by 50+% over standard dehumidification systems.

Munters Corporation Protected by one or more of the following U.S. Patents. 5435958; 5505769; 5423934; 5500402; 6375914; 6557365; 6622508; 6711907; 6875299; 7047751. U.S. and worldwide Patents Pending.

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