



**INNOVATIVE AIR
TECHNOLOGIES**

Rotor Series Dehumidifier

600-30,000 CFM Systems

With the Rotor Series, we provide our customers with the technology that can handle any environment. Designed specifically for the larger, more industrial applications, with capacities from 600 - 30,000 CFM. The Rotor Series incorporates a vertical desiccant wheel unlike that of its smaller brother, the Compact Series. We also offer a wider range of options on the rotor series, helping you incorporate a dehumidification system that's perfect for your facility.

Our Rotor Series dehumidifiers work great in environments such as: Water treatment plants, injection molding processes, candy manufacturing, and any other larger applications that need dry air.

The rotor series is also ready to run when delivered leaving only electrical and ductwork connections to be made.

BENEFITS:

- Capacities from 600 to 30,000 CFM
- Attain the largest grain differential in the industry per CFM of desiccant
- Precise Laser Cutting Technology
- Easy Maintenance!





Productivity

With capacities from 600 to 30,000 CFM, you can rest assured that your humidity problems will be eliminated and you can concentrate on more important things. With the humidity decreased, production will increase.

Desiccant Wheel

Innovative Air Technologies uses hi-capacity desiccant media. We design our rotor series to perform above and beyond the competition. Because of that, we attain the largest grain differential in the industry per CFM of desiccant.

Fans

Both process and reactivation fans are centrifugal, direct drive, and include totally enclosed fan cooled motors that are isolated from the air stream. We also use higher static fans than the competition to provide the customer with the most powerfully, durable dehumidifiers in the industry.

Electrical

With durability in mind, Innovative Air Technologies equips our dehumidifiers with the best electrical design and components around. We use circuit breakers instead of fuses to maximize efficiency. Using circuit breakers also improves our user friendly design. Another advantage to our electrical design is our color-coded wiring system. We use numerically matched color coded wiring to aid in any preventive maintenance or service projects. This ensures that wires are easily traceable. All components are IEC rated.

Drive System

Our chain drive system is as durable as they come. We eliminate belts and as many moving parts as possible to reduce the chance of drive system failure.

Reactivation Options

We offer 4 various options for reactivation heat: electric, gas, steam, and hot water.

Construction

We construct our dehumidifiers out of 12 and 16 gauge corrosion-proof coated steel. We use large flanges in our construction to increase the durability of our units. In addition to our high standards of construction, we have recently added the innovative technology of laser cutting and waterjetting. This provides astonishing, precise, results.



Options

We wrote the book on versatility. Innovative Air Technologies has endless capabilities for options. We offer anything from electronic humidistats to cooling. You name it, we can do it.

- Humidistats
- Weather proof construction
- Structural skid
- Explosion proof design
- Heating
- Cooling
- High capacity filtration
- Control system integration
- Voltage changes
- and many more.

Quality control

At Innovative Air Technologies, we strive for perfection. We take pride in every dehumidifier that leaves our plant. That is why we perform a 24 hour full test that includes a 35 point inspection before any unit ships. This ensures that you receive your dehumidifier quality built and ready to run.

IAT-12,000RG



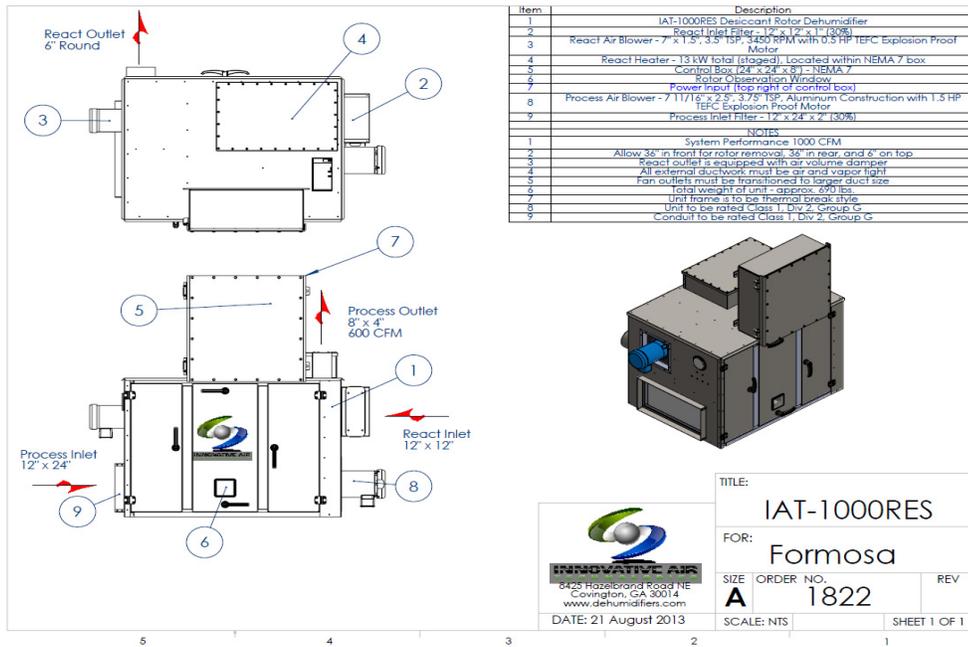
IAT-3,000RE





Rotor Series

Standard IAT - 1000 unit outline drawing



MOISTURE REMOVAL RATES

* Nominal Performance -- 70° F @ 50% RH. @ 500' Elevation

Model #	Air Flows		Lbs. / Hour H2O			React Energy in Kwh	Weight in Lbs.
			LC*	STD*	HC*		
	Process	React					
IAT - 600	600	200	15	16.4	21	13.5	360
IAT - 1000	1,000	333	23.7	26.1	33.4	25	550
IAT - 1500	1,500	500	34.1	37.5	48	30	585
IAT - 3000	3,000	1,000	68.3	75.1	96.1	66	705
IAT - 4500	4,500	1,500	117.7	129.4	166	113	1200
IAT - 7500	7,500	2,500	175	192.3	246	170	1700
IAT - 10,000	10,000	3,333	234	257.4	329	199	2860
IAT - 20,000	20,000	6,666	470	517.9	662	398	4825
IAT - 40,000	40,000	13,333	941	1,034.20	1323	797	7200

Weights and performances are standards and can change with addition of optional equipment

Contact the factory for more information on a specific size

Weights may change without notice

* LC - Low capacity unit

* HC - High capacity unit

* STD - Medium capacity unit