



ArctiDry

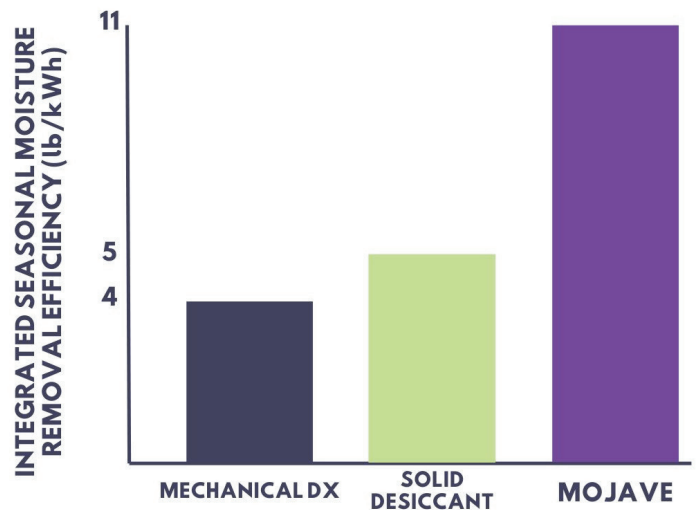
Product Summary

The result of a decade of R&D, this innovative, next generation liquid desiccant air conditioner and dehumidifier significantly lowers energy use and CO2 emissions, yet installs like conventional packaged HVAC equipment. ArctiDry offers multiple winter heating options, is easy to operate and maintain, and is capable of achieving low dewpoints without the need for reheat.

Reducing Energy Use

With an ISMRE rating as high as 11 lbs/kWh, it's more than twice as efficient as conventional Dedicated Outdoor Air Systems (DOAS) and more than double the Department of Energy (DOE) standard of 3.8 lbs/kWh. By independently controlling dew point and temperature control, ArctiDry unlocks building-wide energy savings by raising chiller temperatures or running dry coils.

Unparalleled Efficiency



Applications

GROCERY

The Most Efficient Way to Control Condensation

HEALTHCARE

A Breath of Fresh Air for Healthcare Facilities

OFFICE & COMMERCIAL

Reduce Energy Consumption and Improve IAQ

OTHER DEHUMIDIFICATION

Precise Control for Temperature and Dew Point

MULTIFAMILY & HOSPITALITY

Provide a Luxury Experience with Improved Air Quality

EDUCATION

Improve Student Health and Academic Performance



The World's Most Efficient DOAS

In addition to saving energy, ArctiDry provides separate control of sensible and latent loads to support modern building designs. ArctiDry installs and integrates easily, requiring only an electrical hookup, providing both cutting age performance and easy maintenance.

High Ventilation

- Hospitality
- Multifamily
- Education
- Medical Facilities
- Airports

Low Dew Point

- Hospitals
- Supermarkets
- Food Processing
- Manufacturing
- Ice Rinks

High Internal Latent Load

- Indoor Agriculture
- Classrooms
- Pools

Precise Control

- Data Centers
- Manufacturing
- Industrial Applications

Up to 50% Reduction in Electrical Energy Use

Independent Temperature and Humidity Control

Supply Dew Points as low as 35°F

Biocidal

Multiple Heat Options, Including Heat Pump

ROI in 0-3 years compared to conventional DX systems

More Affordable and Reliable than Solid Desiccant Systems

Double Wall Construction

Minimal Maintenance

Desiccant Lasts the Life of the Unit

	A Cabinet	B Cabinet
Air Flow	1,000-3,000 CFM	3,000-6,000 CFM
Cooling Capacity	Up to 25 tons	25-60 tons
Moisture Removal Rate	Up to 130 lb/hr	Up to 380 lb/hr
Supply Air Conditions	55-75°F DB 35-55°F DP (30-64 gr/lb) 3 inwg ESP Available	
ISMRE2	Up to 11 lbs/kWh	
Heat Pump Option	Up to 180 MBH	Up to 290 MBH
Indirect Gas Fired Heater Options	<ul style="list-style-type: none"> • 100 MBH • 200 MBH 	<ul style="list-style-type: none"> • 300 MBH • 400 MBH • 600 MBH
Electric Heater Options	<ul style="list-style-type: none"> • 20kW • 45 kW 	<ul style="list-style-type: none"> • 60 kW • 90 kW
Refrigerant	R-454B	
Construction	2" Double Wall, R-13	
Weight	3500 lb	6500 lb
Electrical	208V / 230V / 460V, 3ph	
Controls	Factory Packaged Controls w/ HMI Modbus, BACnet MS/TP or IP, or LonWorks available	
Options	<ul style="list-style-type: none"> •Return air opening + damper •ERV wheel •Inlet + outlet damper •Inlet hood & roof curb •LonWorks connectivity •10,000 hr salt spray cabinet coating 	