



ARCTIDRY LIQUID DESICCANT HVAC

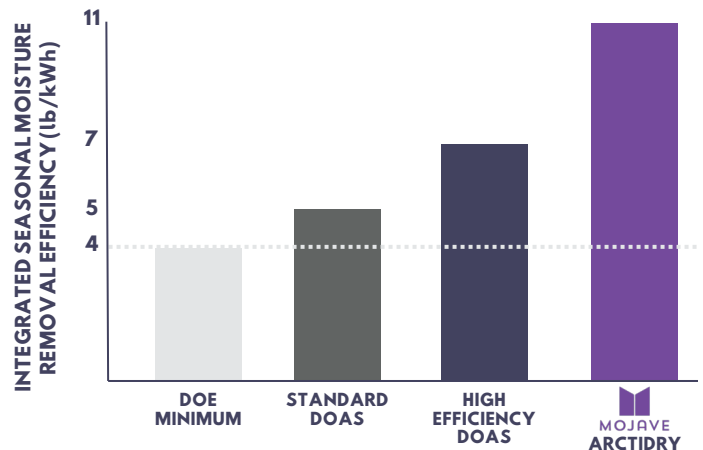


In today's modern commercial buildings, humidity is an even bigger challenge to solve than temperature management. Mojave's ArctiDry products combine two advanced systems in one package: a patented high-efficiency liquid desiccant system for humidity control, and a modern vapor compression system for temperature management. These systems operate independently, enabling precise, optimized control of both dew point and dry bulb. This decoupling drives dramatic energy savings and powerful dehumidification—exactly what today's commercial buildings demand.

A NEW WAY TO CONTROL TEMPERATURE AND HUMIDITY

ArctiDry's patented liquid desiccant technology increases energy efficiency and lowers costs by integrating cooling, heating and dehumidification. With an unparalleled ISMRE2 rating as high as 11 lbs/kWh, ArctiDry is twice as efficient as conventional Dedicated Outdoor Air Systems (DOAS). This moisture removal capability makes ArctiDry an ideal DOAS or dehumidifier, able to deliver air at dewpoints of 35°–55°F.

Unparalleled Efficiency



ARCTIDRY BASE MODELS



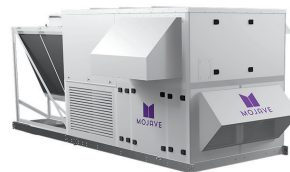
ADA

- 1,000–4,000 CFM
- Up to 26 tons
- Up to 290 MBH heat pump
- 100–200 MBH gas heat
- 20–50 kW electric heat



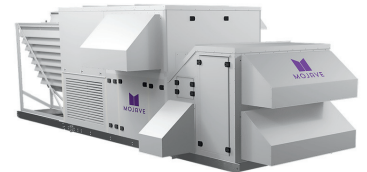
ADA + ERV

- 1,000–3,500 CFM
- Up to 26 tons
- ERR>50%
- Up to 290 MBH heat pump
- 100–200 MBH gas heat
- 20–50 kW electric heat



ADB

- 3,000–8,000 CFM
- Up to 60 tons
- Up to 310 MBH heat pump
- 300–600 MBH gas heat
- 40–90 kW electric heat



ADB + ERV

- 3,000–7,000 CFM
- Up to 60 tons
- ERR>50%
- Up to 310 MBH heat pump
- 300–600 MBH gas heat
- 40–90 kW electric heat

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Specifications

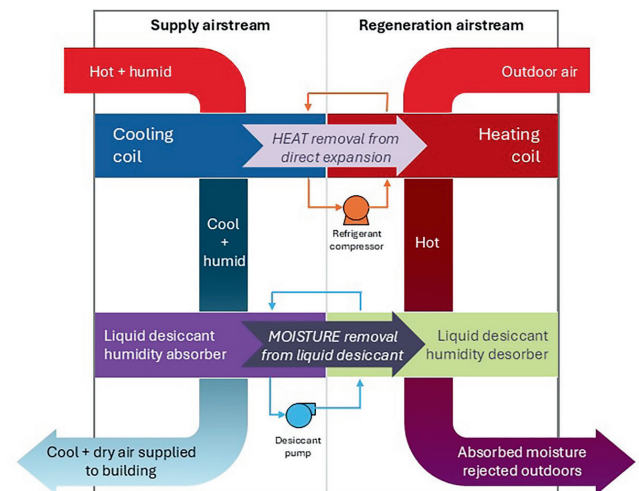
| | Cabinet A | Cabinet B |
|---|---|-----------------|
| Air Flow | 1,000–4,000 CFM | 4,000–8,000 CFM |
| Cooling Capacity | Up to 25 tons | 25–60 tons |
| Moisture Removal Rate | Up to 130 lb/hr | Up to 380 lb/hr |
| Weight | 3,500 lb | 6,500 lb |
| Supply Air Conditions 3 inwg ESP Available | 55–75°F DB 35–55°F DP (30–64 gr/lb) | |
| ISMRE2 | Up to 11 lb/kWh 12 lb/kWh with ERV | |
| Refrigerant | R-454B | |
| Filtration | Up to 12" Filter Rack | |
| Electrical | 208V / 230V / 460V, 3ph | |
| Controls | Factory Packaged Controls w/ HMI Modbus, BACnet MS/TP or IP, or LonWorks available | |

Options

- Return Air Opening and Damper
- ERV Wheel
- Inlet and Outlet Damper
- Inlet Hood and Roof Curb
- 10,000 Hour Salt Spray Cabinet Coating
- Condenser Hail Guard
- Supply Air Flow Monitor
- Dirty Filter Switch
- AMCA 550 Louvers

ARCTIDRY OPERATION

Mojave's patented technology harnesses the natural moisture-absorbing power of liquid desiccants to manage latent loads more efficiently than traditional systems. In an ArctiDry unit, the DX coil does less mechanical work because deep moisture removal happens downstream—allowing the system to use far less energy than traditional overcool-and-reheat approaches.



KEY FEATURES

Independent temperature and humidity control

Easy to install and maintain, desiccant lasts the life of the unit

30–60% energy savings over standard DX

Manufactured in the USA

APPLICATIONS

HIGH VENTILATION

- Multifamily
- Education
- Hospitality
- Outpatient Medical
- Airports

HIGH INTERNAL LATENT

- Indoor Agriculture
- Classrooms
- Pools

LOW DEW POINT

- Hospitals
- MOB's/Medical ASCs
- Supermarkets
- Food Processing
- Manufacturing

PRECISE CONTROL

- Data Centers
- Manufacturing
- Industrial Applications



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