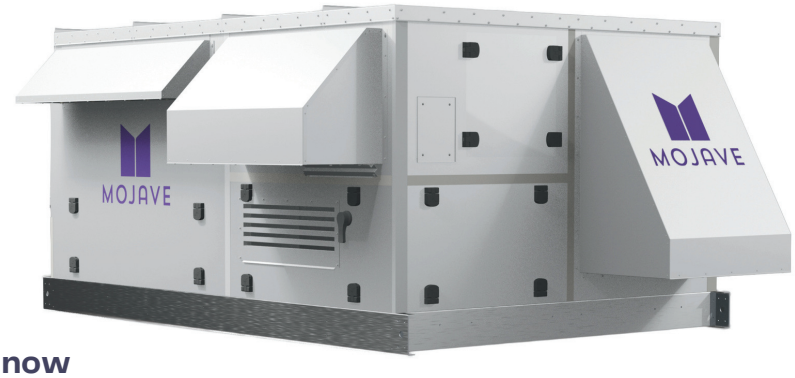
MOJAVE

ARCTIDRY HYDRO

HYDRONIC LIQUID DESICCANT AIR HANDLING UNIT



Our proven liquid desiccant technology is now optimized for hydronic systems and even deeper dehumidification.

When standard dehumidification isn't enough, ArctiDry Hydro delivers. Mojave's hydronic liquid desiccant system achieves dewpoints down to 25°F—performance levels previously requiring expensive solid desiccant equipment or complex custom systems. By operating with higher chilled water temperatures than traditional cold-coil approaches, ArctiDry Hydro actually reduces the load on your central plant while providing superior moisture removal. The result: ArctiDry Hydro frees up chiller capacity, improves plant efficiency, and delivers humidity control that conventional coil-based systems simply can't match.

A NEW WAY TO CONTROL TEMPERATURE AND HUMIDITY

Mojave's patented technology harnesses the natural moisture-absorbing power of liquid desiccants to manage latent loads more efficiently than traditional systems. ArctiDry Hydro uses moderately chilled water (42–55°F) for sensible cooling while the liquid desiccant independently absorbs moisture—allowing the chiller plant to operate at higher, more efficient leaving water temperatures. Desiccant regeneration requires only low-grade hot water (as low as 110°F), making it well suited for integration with heat recovery systems or existing building hot water loops. By decoupling latent control from the chilled water system, ArctiDry Hydro eliminates the need to depress chilled water temperatures for dehumidification, increasing available chiller capacity and improving plant efficiency across the entire building.

KEY FEATURES

- **Reduces central plant load while delivering superior moisture control**
- **Regenerates using low-grade hot water as cool as 110°F**
- **Easy maintenance — no belts, wheels, or high-temp burners to service**
- **Manufactured in the USA**

ARCTIDRY HYDRO BASE MODELS



AQA

- 1,000–4,000 CFM
- Up to 200 lb/hr moisture removal
- Hydronic heat



AQA + ERV

- 1,000–3,500 CFM
- Up to 200 lb/hr moisture removal
- ERR>50%
- Hydronic heat



AQB

- 3,000–8,000 CFM
- Up to 400 lb/hr moisture removal
- Hydronic heat

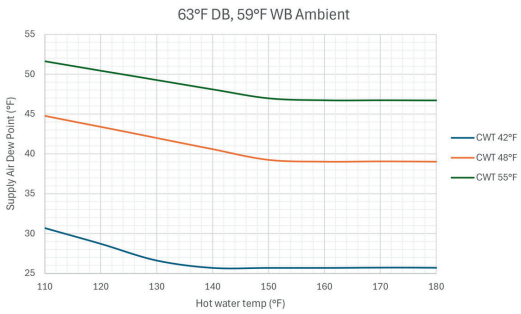


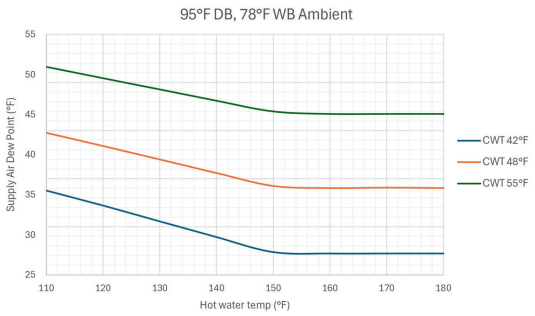
AQB + ERV

- 3,000–7,000 CFM
- Up to 400 lb/hr moisture removal
- ERR>50%
- Hydronic heat

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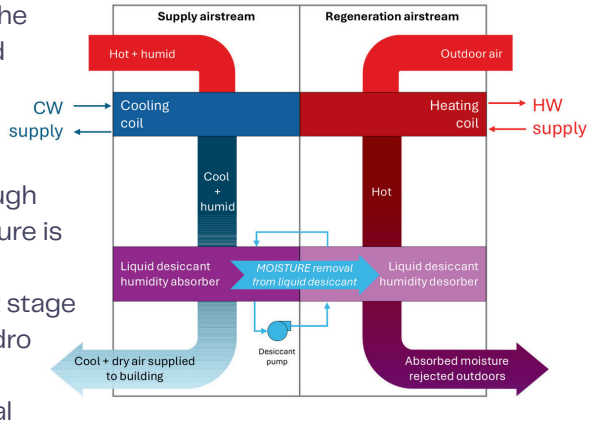
ARCTIDRY HYDRO PERFORMANCE





ARCTIDRY HYDRO OPERATION

Mojave's patented technology harnesses the natural moisture-absorbing power of liquid desiccants to manage latent loads more efficiently than traditional systems. Air passes through a hydronic cooling coil for sensible temperature reduction, then through the liquid desiccant absorber where moisture is removed independently. Because deep dehumidification happens in the desiccant stage rather than at the cooling coil, ArctiDry Hydro operates efficiently at higher chilled water temperatures—reducing load on the central plant while delivering superior moisture control.



APPLICATIONS

HIGH VENTILATION

- Multifamily
- Education
- Hospitality
- Outpatient Medical
- Airports

HIGH INTERNAL LATENT

- Indoor Agriculture
- Classrooms
- Pools

LOW DEW POINT

- Hospitals
- MOBs/Medical ASCs
- Supermarkets
- Food Processing
- Manufacturing

PRECISE CONTROL

- Data Centers
- Manufacturing
- Industrial Applications

Specifications

	Cabinet A	Cabinet B
Air Flow	1,000 -4,000 CFM	3,000-8,000 CFM
Chilled Water Supply	28-55°F EWT 10-15°F dT 20 ft H2O max dP 0-40% PG	
Regeneration Hot Water Supply	110-180°F EWT 20°F dT 20 ft H2O max dP 0-40% PG	
Control Valve Options	Factory-supplied 2-way	
Weight	3,000 lb	4,200 lb
Supply Air Conditions 3 inH2O ESP Available	45-75°F DB 25 -55°F DP (16-64 gr/lb)	
Regeneration Fan	Up to 1.5 in H2O ESP	
Winter Heating Options	Hot Water Coil	
Filtration	Up to 6" Filter Rack	
Electrical	208V / 230V / 460V, 3ph	
Controls	Factory Packaged Controls w/ HMI Modbus, BACnet MS/TP or IP, or LonWorks available	

Options

- Outdoor/indoor
- Return Air Opening and Damper
- ERV Wheel
- Inlet and Outlet Damper
- Inlet Hood and Roof Curb
- 10,000 Hour Salt Spray
- Supply Air Flow Monitor
- Dirty Filter Switch
- Pipe egress thru side or bottom of unit

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