

Copeland HMX™ Liquid Desiccant Module

The Copeland HMX Liquid Desiccant Module revolutionizes dehumidification by combining cooling and moisture control in a single, energy-efficient step, delivering supply air at the specified dew point while providing up to 40% energy savings. With a flexible modular design, patented technology, and ISMRE2 efficiency ratings well above the minimum efficiency regulations, it's the smart, sustainable choice for OEMs seeking high efficiency performance, and innovation.

The Copeland HMX Liquid Desiccant Module enables the development of integrated, packaged DOAS or dehumidification systems. As the solution's core technology, the Copeland HMX module can be configured to meet specific moisture removal and cooling requirements, providing OEMs with increased design and application flexibility.

Features

- Delivers increased efficiency with up to 40% energy savings
- Modular, configurable technologies and sub-systems
- Single-step cooling and dehumidification
- Copeland innovation, expertise, and reliability



Breakthrough dehumidification technology

Best-in-class energy efficiency and dehumidification

Combines cooling and dehumidification in one step, delivering up to 40 percent energy savings while exceeding federal energy-efficiency standards. Its patented technology delivers precise dehumidification by optimizing air and desiccant flow. It removes moisture directly from outdoor air, eliminating the potential for cross-contamination between supply and exhaust air streams to optimize indoor air quality.

Maximize design simplicity and flexibility

HMX features modular, configurable technologies and subsystems to maximize simplicity and flexibility. The patented HMX membrane module can be configured to specific humidity or cooling needs by adding or removing modules, allowing OEMs to scale designs up or down to meet precise requirements. Available subsystems include a desiccant conditioner, desiccant regenerator, and chiller.

Copeland-led innovation, expertise, and reliability

The HMX Liquid Desiccant Module is backed by Copeland's extensive HVAC engineering expertise and over a century of innovation. Developed with state-of-the-art R&D facilities and validated through field trials by leading OEMs, HMX has been granted 24 patents, with 12 additional patents pending.

Technical specifications

- Module nomenclature: M60-TAA
- Liquid desiccant: Lithium chloride
- Module moisture removal capacity: 10- 12 lbs/hour up to 500 cfm

The HMX Liquid Desiccant Module reflects Copeland's commitment to innovation and performance, leveraging cutting-edge technologies and rigorous R&D. This breakthrough technology delivers best-in-class dehumidification and energy efficiency.