

LD-DOAS The World's Most Energy-Efficient DOAS

Blue Frontier LD-DOAS is the world's first packaged liquid desiccant DOAS (Dedicated Outdoor Air Supply) designed with sustainability in mind. Improving your indoor air quality through increased ventilation with precise dehumidification doesn't have to come with an energy penalty.

LD-DOAS offers extreme efficiency, boasting Moisture Removal Efficiency at more than double the proposed ASHRAE standard. We deliver unparalleled sustainability benefits by eliminating the use of high GWP refrigerants, load-shaping with integral energy storage, and slashing electricity use.

LD-DOAS delivers precise dehumidification via a more efficient isothermal path ...in other words we don't cool to the dew point! LD-DOAS uses a non-corrosive liquid desiccant to dehumidify and deliver 100% outdoor air at 55 °F dew point and room neutral temperature without reheat.

LD-DOAS delivers pre-conditioned ventilation air directly to packaged rooftop units. Closing ventilation air dampers relieves latent load, improves efficiency, and increases return air cooling capacity



► FEATURES

- ✓ 15 ton liquid desiccant DOAS
- Uniquely designed for increased ventilation air
- New technology for dehumidification
- No re-heat required
- Exceeds proposed ASHRAE ISMRE 2024 energy efficiency standards.
- Proprietary non-corrosive desiccant

- ✓ Integral load-shaping energy storage capability
- Intelligent controls
- ✓ Low GWP refrigerant
- ✓ Intelligent, adapts to dynamic and changing climactic conditions from hot/humid through hot/dry
- ▼ Future-proof your building against global warming trends
- ✓ Latent and sensible cooling capacity increases as outdoor temperatures rise.

▶ TECHNICAL SPECIFICATIONS

Model	Nominal Capacity	Air Flow Range*	MRR	ISMRE2**	Dimensions	Weight
LD-DOAS™	15 ton	2000-3500 CFM	60 to 140 lb/h	9.2 lb/kWh	L : 17' × W : 6' × H : 6'	6,500 lbs

^{*} Unit capable of operating with a wider air flow range.

^{**} The proposed ASHRAE minimum standard for DOAS is 3.8 lb/kWh



RETHINKINGAIR

Blue Frontier is Rethinking Air. Designing a healthy and comfortable indoor environment with a higher rate of ventilation air for cognitive enhancement and productivity is at odds with sustainability goals to reduce energy and emissions.

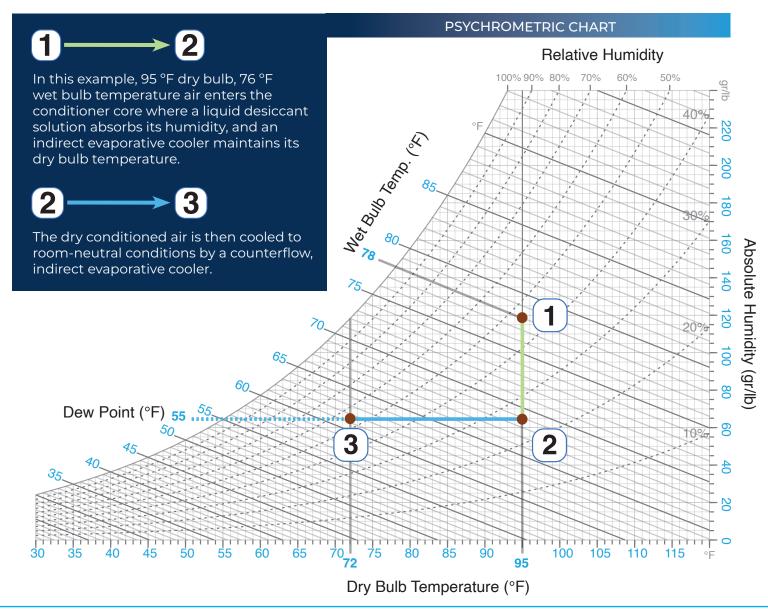
► AWARDS





Blue Frontier solves this problem.

► HOW OUR TECHNOLOGY WORKS





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