

DuCool systems cool, heat, dehumidify, disinfect and clean the air while providing independent control of temperature and humidity. These solutions are powered by renewable energy sources such as solar panels, geothermal water and waste heat from multiple sources, providing considerable savings to commercial and industrial users.

DuCool systems utilize a patented liquid desiccant process for dehumidification and air conditioning that is considerably more efficient and effective than other standard HVAC solutions. DuCool systems can be configured as stand-alone solutions or coupled with existing conventional systems to provide a superior hybrid application.

The DuCool products successfully address IAQ (Indoor Air Quality) by helping to meet ASHRAE (62.2), ARI (940-98) and OSHA (29 CFR 1926.800(K)(2) standards and regulations regarding fresh air requirements.

The Advantages Are Built-In

- The units provide a wide range of air treatments: **Dehumidification, Cooling** (Optional Heating), **Particles Removal** and **Disinfecting** (91± 5% of the airborne microorganisms are eliminated) and improve IAQ (Indoor Air Quality)
- **Durability & Insulation:** Strong and rigid tripple layer structure enables installation indoors and outdoors, as well as high quality insulation for harsh ambient conditions
- **Versatility:** Suitable for a wide range of installations and applications
 - Stand alone or with an A/C system
 - For newly designed, retrofit and add-on installations
 - Wide range of air treatment capacities
 - Independent and automatically adjustable humidity and temp. control
 - BMS interface and/or remote control options
- **Environmentally friendly**
 - Green gas operated compressor available
- **Saving**
 - High efficiency design (COP/EER) for significant energy saving
 - Low cost moisture removal (\$ per gallon)
 - Automatic adjustment of the unit SHR (Sensible Heat Ratio) and shifting between sensible and latent heat (%) ratio for most efficient performance
- **Simple Installation & Maintenance**
 - The units are equipped with both process (supply) and regeneration (exhaust) fans
 - Installation requires **only**:
 - ✓ Leveled surface
 - ✓ Electrical power supply
 - ✓ Ducts connections (max. 4)
 - No need for condensate water removal
 - All services & maintenance are accessible from unit's front
 - Data Point Logging
- **Comfort**
 - Independent humidity & temp. control
 - Automatic selection of sensible & latent heat ratio, to meet any load for best comfortable conditions



DuCool - A Solution Provider

The DuCool units are highly effective where moisture removal and dehumidification are required, and are also applicable in projects of required large outside-air quantities, frequent air changes and treatment of high external and/or internal latent load.

The DuCool independent temperature and humidity control provides a wide range of application fields:

■ **Pharmaceutical:**

Powders, Soft Gel, Capsules, Granulations, Tablets, Packaging.

■ **Industrial:**

Plastic, Textile, Semi Conductor, Glass, Metal production.

■ **Cold Storage:**

Fresh Fruit & Vegetable, Dried Fruit, Dairy Products, Meat & Poultry, Seeds, Flowers.

■ **Health Centers:**

Hospitals (Operation Rooms, Emergency Rooms, Laboratories, Geriatric Wards), Healthcare Centers (for Babies, Children, Elderly, Respiratory Illness).

■ **Food Production:**

Meat Processing, Coffee, Dairy, Sweets (Candies, Sugar) Tobacco.

■ **Dry Storage:**

Army Vehicles, Tanks, Air planes, Ammunition.

■ **Sport & Recreation Centers:**

Ice Rinks, Indoor Swimming Pools, Spas, Fitness Centers.

■ **Public Buildings:**

Hospitality (Hotels & Motels), Education (Classrooms, Auditoriums, Lecture Halls), Entertainment Centers (Movie & Stage Theaters, Ball Rooms).

■ **Fast Food Restaurants**

■ **Department Stores**

■ **Supermarkets**

■ **Wineries**

■ **Breweries**

■ **Green Houses**

■ **Museums**

■ **Libraries**

■ **Archives**

■ **Clean Rooms**

■ **Computer Rooms**

■ **Printing, Silk**

■ **Screening**