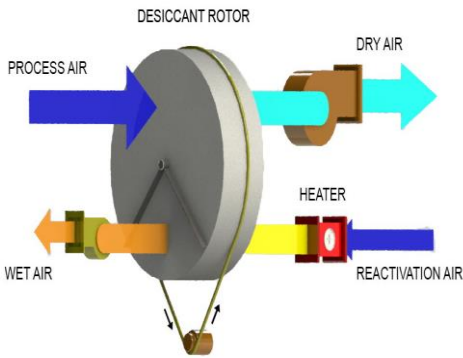


# DRYMAX DEHUMIDIFIER

Model: DM-10000R-AL

## Product Description



Drymax desiccant dehumidifier is designed to efficiently use in low humidity application. Its airtight construction ensure accurate conditions and operational features provide versatility to adapt the system for different requirement. Its rugged formed metal body and access panels are produced from corrosion-free stainless steel SS AISI 304. Standard units are completely equipped with process and reactivation fans, heater, filters, electric system and control panel, ready to install.



## Drymax Technology

The desiccant rotor is manufactured from a corrugated composite material that is highly effective at attracting and holding moisture by famous Swedish Proflute company. Every Drymax dehumidifier applies a unique rotor technology. Airflows, air conditions, rotor sections, and rotor rotation speed are optimised for specific applications. An innovative control system maximizes the unit energy efficiency.

The characteristic of the Drymax dehumidifier is the precision seals which divide the air distribution chamber. These provide a precise airflow balance for dehumidification and reactivation while allowing for alternative fan placement and rotor sectioning.

## Performance and Feature

- Desiccant dehumidification-high efficiency, even below 10%
- Most of parts and components are standard type for easier maintaine and service
- Corrosion-free stainless steel
- Efficiently designed electrical system and construction
- Low noise
- Low power consumption

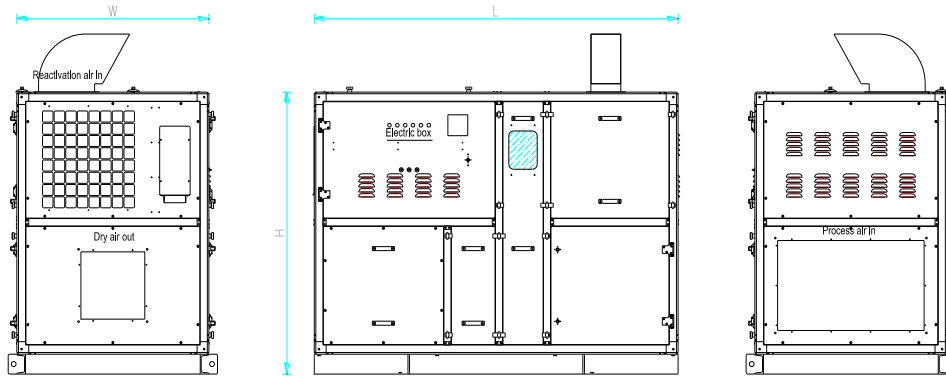
## Typical applications

It is studied that desiccant dehumidifiers are most suitable for those systems with characteristics as: dewpoint <math><10^{\circ}\text{C}</math>, Sensible heat ratio <math><0.8</math>, Outside air requirement > 15%, Need for dry ductwork ...let contact Drymax engineer for further consultation.

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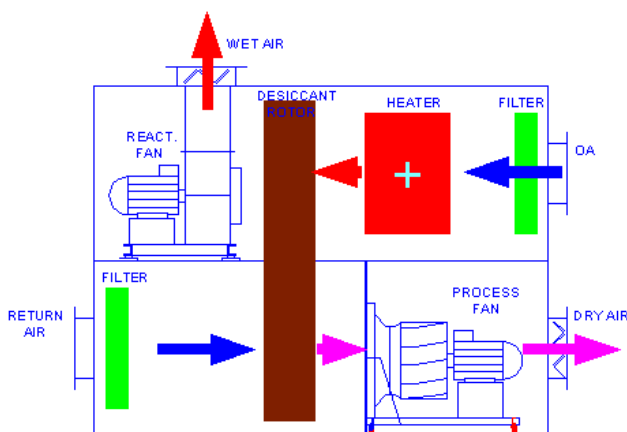
### Main specification and parameters



- Process airflow rate (CMH): 10,000
- Available external static pressure (Pa) : 300
- Process filter : G4
- Dehumidification capacity (kg/h): 71.5 (@20°C/60%)
- Reactivation airflow (CMH): 3,333
- Available external static pressure (Pa) : 300
- Reactivation filter : G4
- Reactivation heater power (kW): 110.4
- Reactivation steam at 6bar(g) saturate (Kg/h): 199
- Total power consumption (kW): 120.47
- Total power consumption (kW) for steam unit: 10.07
- Power source : 3ph/380V/50Hz
- Noise (dBA): 72
- Dimension (mm) : 3,200 x 1,700 x 2,170(H)
- Weight (kg) : 1,300

### Software Selection Support

As the dehumidification capacity varies depending on different operation parameters such as: process airflow, reactivation air condition, reactivation airflow, reactivation temperature, rotor rotation,... and these parameters change from this climate region to others, and from this system design to other. So it is important for the designer, the installer and user of each specific project know the actual dehumidification capacity and energy consumption in his specific project not a general information provided in commercial literature. To meet with that demand, our Drymax engineer uses "Proflute dehumidification software program" to estimate the real dehumidifier's results for each project, so that we, all, are working with real system data.



### About Drymax

Drymax desiccant dehumidifiers are products of NAAV Solutions Inc. ( Canada) with headquarter located at Vancouver, BC, Canada and manufacturing/ assembly facilities located in North America and Vietnam

### Distributor