



## **Product Description**

**DECKER** adsorption dehumidifier (DAD) is designed to efficiently work in low dewpoint applications down to -60°C. DAD unit's body and access panel are made of EGI steel and thermo break aluminum profile. Its airtight construction helps to delivers accurate conditions and features provide versatility to adapt the system for different requirements. Standard units are completely equipped with process and reactivation fans, heaters, filters, base control package ready for installation.

# **Adsorption Rotor Technology**

#### **Highest desiccant content:**

The HSG rotor has a very high, 82% active silica Gel content. It can be used for most environments and applications.

The H4M rotor has a very high, 39% 4A Molecular Sieve content 43% Silica Gel content. It will perform well when entering air is dry and or hot or when the environment is alkaline. It is also suitable when the application calls for a low dewpoint.

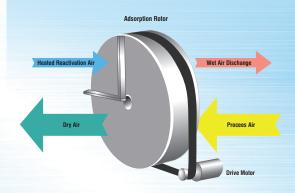
**Fire resistance:** the rotor media provided Air Holdings AB has been tested according to ASTME test E-84 and achieved a flame spread index of 0 and a smoke index of 0

**Unique moisture adsorption:** the density of dry media is approximately 240kg/m³. The media can pick up approximately 40% of its dry weight as moisture in humid environment. There is no limit for how high humidity the rotor can stand as long as the droplets are not introduced into the rotor during operation

**High surface strength:** the surface compression strength of the rotor is more than 200 kpa

# **Installation & Operation**

- Start/stop/humidistat and diagnostic fault display
- Pressure and airflow test points
- Replaceable G4 filter enhances air quality
- Replaceable process fan enhances external static pressure



#### **Benefits**

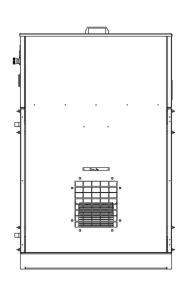
- Rotor configuration options HSG/H4M
- Latest technology absorption rotor from Sweden
- The control system is designed for stand –alone operation or control for both Pre-cooling and Post-cooling
- The electrical system is designed to be simple
- Reactivation heater Choices electric heater or steam heater
- Self-cleaning adsorption rotor

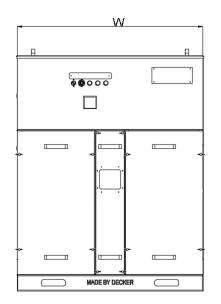
## **Applications**

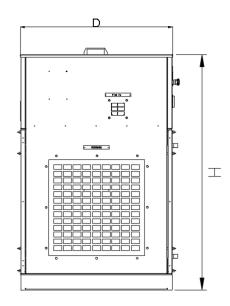
- Lithium batterty
- Manufacturing industry
  - Printing
  - Electronic parts
  - Film
  - Automobile factory
  - Food factory
  - Metal molding
- Defense, aviation and space industries
- ◆ Medicine and pharmaceuticals
- Power stations
- Warehouses (refrigerated, tent andprefabricated)
- Powder conveying
- ♦ Research
- Pool air conditioning
- Ship coating



Dimensions DAD-450







V	Vidth (W) (mm)	Depth (D) (mm)	Height (H) (mm)	Process air inlet (mm)	Dry air outlet (mm)	Reactivation air inlet (mm)	Wet air outlet (mm)	Weight (kg)
	900	570	1000	350 x 250	85 x 70	270 x 215	85 x 95	180

### **Technical specifications**

Dehumidification capacity (\*) (kg/h): 2.99

Air filter: G3

Power source: 3Ph/380V/50Hz Total power consumption (kW): 5.71

Noise level (dBA) (\*\*): 70

#### Process air

• Rated airflow (m<sup>3</sup>/h): 450

• External static pressure (Pa): 100

• Fan motor power (kW): 0.35

#### Reactivation air

• Rated airflow (m<sup>3</sup>/h): 150

• External static pressure (Pa): 100

• Fan motor power (kW): 0.25

#### **Gear motor**

• Motor power (W): 14.0

### Reactivation air heater

• Electric heater power (kW): 5.1

• Temperature increase across heater (°C): 100

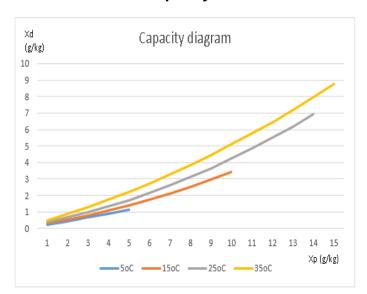
• High temperature cut-out (°C): 160 ± 10

(\*) Conditions at 20°C/60%RH

(\*\*) Sound pressure level calculated in free field,

10m from unit, direction factor Q=2

### **Dehumidification capacity**







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