



**AD - series B**  
Portable adsorption dehumidification

# Efficient dehumidification at low temperatures

Adsorption dehumidification ensures dry conditions at low temperatures. This makes the portable Dantherm AD - series B range the obvious choice for drying out new buildings or water damage during the winter season and for maintaining low levels of relative humidity at facilities with a low ambient temperature.

## Applications

- *Damage service*
- *New construction*
- *Waterworks*
- *Structural renovating of buildings*
- *Rental service*

Humidity problems are most often associated with hot and damp environments, and usually a condense drying dehumidifier is applied. However, at ambient temperatures below 10°C condensation is not very easily achieved, whereas humid air and moisture from materials, open water surfaces, and production processes can cause serious damage at even very low temperatures.

Dantherm portable AD - series B adsorption dehumidifiers offer reliable control of the relative humidity of the air, and drying out water damage or newly constructed buildings even at winter temperatures.

– After all, accidents happen regardless of the seasons, and construction work goes on all the year round.

## Sturdy and compact design

The portable AD - series B units have been designed for easy handling and transportation. The sturdy stainless steel cabinets are surprisingly compact and low weight compared to capacity. The countersunk control panel is well protected and countersunk handles for carrying make the units easy to stack during transportation and storage.

## Easy installation and service

The portable AD - series B units are fast and easy to install as they require only one hose to the outside. A gasket ensures that the hose fits tightly with no loss of air pressure. The built-in runtime counter tells how many hours the unit has been in operation – a feature greatly appreciated by rental services. The cabinet provides easy access

for internal cleaning and service, and the air filter can be changed without opening the cabinet.

## High-performance operations

The portable AD - series B range offers capacities ranging from 0.45 kg/h to 1.4 kg/h at 20°C/60%RH. Reliable high-performance operations at low temperatures and easy installation ensure fast results in emergency situations minimizing the long-term damage caused by flooding and corrosion.

The portable AD - series B units can run continuously, or they can be fitted with an optional easily programmable hygrostat or dew point controller that automatically turn the unit on and off as specified.





The rotor adsorbs moisture on the silica gel covered surface while it is in the drying zone. In the regeneration zone the moisture is released and the rotor is ready for another turn in the drying zone.



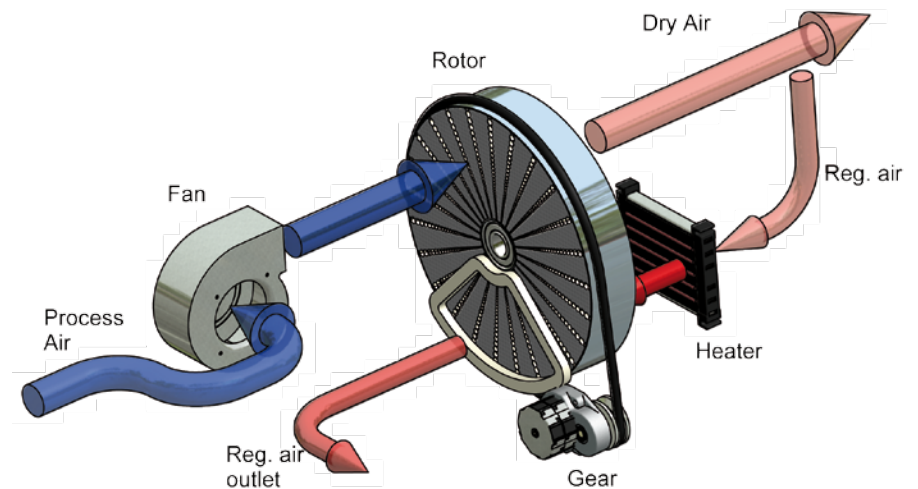
Easily operated control panel with runtime counter and hygrostat connector. The control panel is countersunk and well protected.



The AD - series B dehumidifiers are designed for easy handling and transportation. Details such as the countersunk handles makes the sturdy units perfect for emergency damage situations.

### How the AD - series B dehumidifier works

An AD - series B adsorption dehumidifier is divided into two zones. In the drying zone moist air from the room passes through a silica gel rotor that adsorbs the moisture and the dry air is returned to the room. In the regeneration zone hot air is blown through the rotor in the opposite direction drying out the silica gel and carrying the moisture through the connected hose to the outside air. The desiccant rotor rotates continuously between the two zones, and the adsorption process can reduce the relative humidity to almost zero if it is allowed to continue.



### Technical data

	Deh. capacity at 20°C/60% RH kg/h	Nom. volume, dry air m <sup>3</sup> /h	Nom. volume, regenerated air m <sup>3</sup> /h	Power consumption kW	Weight kg	Dimensions L x W x H mm
AD 120 B	0,45	120	35	0,78	12	325x312x305
AD 240 B	0,80	240	45	1,05	15	395x330x357
AD 290 B	1,10	290	65	1,64	17	395x330x357
AD 400 B	1,40	400	85	2,10	27	470x402x427



## Comfortable surroundings in any climate



Since 1958 Dantherm Air Handling has developed and produced climate control and air handling solutions that ensure optimum conditions for people and sensitive equipment alike. No climate is too extreme for us to handle – from the bitter cold of the North and South Poles to the searing heat of the Sahara.

Our core business areas are dehumidification, heating, air conditioning, ventilation and electronics cooling. Innovative, durable and cost-efficient products have secured us a position as a leading global manufacturer of stationary and mobile climate control units. And we are forever pursuing new techniques that will improve our solutions and ultimately your projects.

Our Head Office is located in Denmark, and we have companies in Denmark, Norway, Sweden, the United Kingdom, the United States and China, with an extensive European dealer network.

Dantherm Air Handling is part of the Dantherm A/S group.

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