

PORTABLE ADSORPTION DEHUMIDIFICATION



Dantherm[®]
CONTROL YOUR CLIMATE

PORTABLE ADSORPTION DEHUMIDIFICATION

Efficient dehumidification at low temperatures

Adsorption dehumidification ensures dry conditions at low temperatures. This makes the portable 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.

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 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 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.



Applications

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

Technical data

	Dehumidification 20°C/60% RH RH kg/h	Nom. volume, dry air m ³ /h	Nom. volume, regenerated air m ³ /h	Power Consumption kW	Weight kg	Dimensions L x W x H mm
AD 120 B	0,45	120	35	0,80	12	325x312x305
AD 240 B	0,80	240	45	1,07	15	395x330x357
AD 290 B	1,10	290	65	1,63	17	395x330x357
AD 400 B	1,40	400	85	1,98	27	470x402x427

Easy installation and service

The portable 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 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 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.

How the dehumidifier works

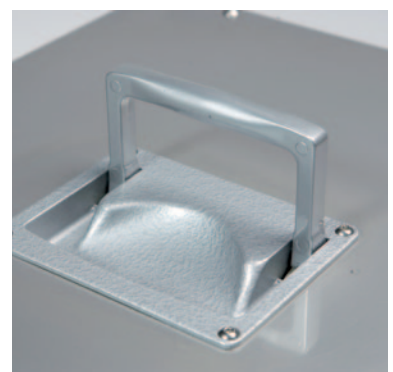
An adsorption dehumidifier is divided into two zones. In the drying zone moist air from the room passes through a silica gel rotor that adsorbs the moisture and the dry air is returned to the room. In the regeneration zone hot air is blown through the rotor in the opposite direction drying out the silica 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.



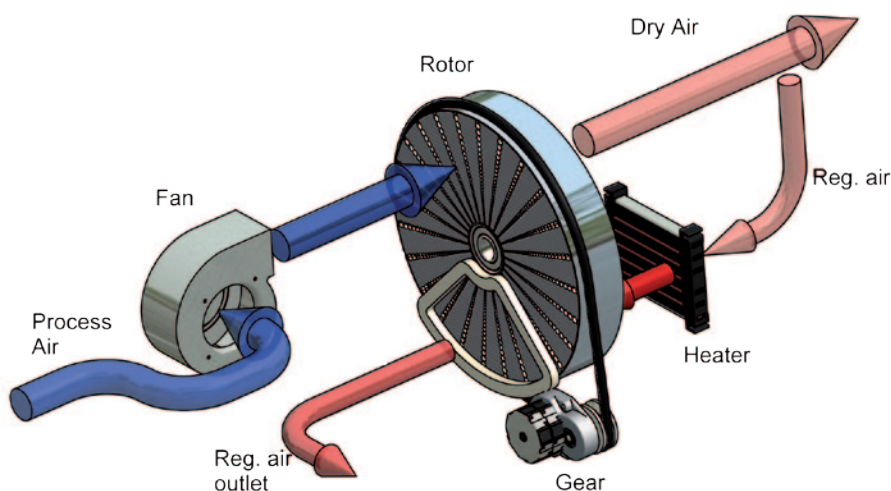
The rotor adsorbs moisture on the silica gel covered surface while it is in the drying zone. In the regeneration zone the moisture is released and the rotor is ready for another turn in the drying zone.



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.



ELECTRONICS COOLING

DEHUMIDIFICATION

VENTILATION

MOBILE HEATING AND COOLING

Dantherm is a market-leading supplier of energy-efficient climate control solutions for customers across the globe. Our subsidiaries in Norway, Sweden, Germany, the UK, the US and China and our representative office in Russia unite approx. 600 employees. We operate in the following four main business areas:

Electronics cooling:

Climate control for electronics and battery cooling in radio base stations and other Telecom infrastructure. Telecom customers include network suppliers and network operators.

Dehumidification:

Mobile and stationary dehumidifiers for drying buildings and for use in private pools and wellness centres.

Ventilation:

Large ventilation systems used in swimming pools and buildings such as shopping centres and cinemas requiring frequent air change. The range also includes domestic ventilation products based on high-performance heat exchangers.

Mobile heating and cooling:

Products for heating or cooling of tents and equipment used by the armed forces and aid organisations. The customers are primarily the armed forces in NATO countries as well as tent and container manufacturers.

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