



PORTABLE ADSORPTION DEHUMIDIFICATION

AD 200-300-400

IDEAL FOR DRYING AT LOW TEMPERATURES IN CONSTRUCTION, WATER
DAMAGE AND WATERWORKS INDUSTRIES





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ENSURING DRY CONDITIONS AT LOW TEMPERATURES

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

The AD portable range offers 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 folding handles for carrying make the units easy to stack during transportation and storage.

Key features

- Ensures dry conditions at low temperatures
- Reliable control of the relative humidity of the air
- Sturdy and compact design
- Cabinet in stainless steel/hot galvanized powder coated steel
- Designed for easy handling and transportation
- Low weight
- Easy to stack during transportation and storage
- MID approved energy counter (optional with AD 400)
- Hour counter
- Internal hygostat (AD 400: connection for external hygostat)



AD 200



AD 300



AD 400

ENSURING DRY CONDITIONS AT LOW TEMPERATURES

Easy installation and service

The portable units are fast and easy to install. Just connect one or two hoses to the dry air and one hose to the regeneration air outlet and lead it to the outside. The cabinet provides easy access for internal cleaning and service, and the air filter can be changed without opening the cabinet.

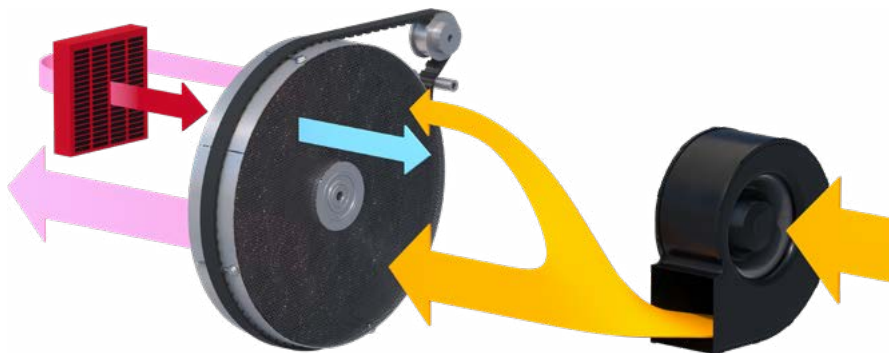
High-performance operations

The built-in hour and energy counter shows the accumulated hour and energy consumption. The energy counter of the AD 200/AD 300 is very precise and has the MID approval which is highest marked standard. The portable range offers reliable high-performance operations at low temperatures and easy installation ensure fast results in drying out constructions and emergency situations minimizing the long-term damage caused by flooding. The portable units can run continuously, or they can be controlled by internal hygostat with the AD 200/AD 300 or external hygostat with the AD 400.

How the dehumidifier works

An adsorption dehumidifier is divided into two zones. In the drying zone humid air from the air inlet 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 drying out the silica gel and carrying the moisture through the connected hose to the outside.

How an adsorption dehumidifier works



Applications



Archives



Cellars



Construction sites



Garages



Production facilities



Warehouses & storage facilities



Waterworks



Water damage restoration

AD 200



AD 200

The AD 200 is a robust compact adsorption dehumidifier with a silica gel rotor as standard. Process air is drawn into the dehumidifier and through the rotor, which slowly turns between two sections in the dehumidifier. The silica gel rotor adsorbs the moisture from the air in the drying section. This moisture is removed again by blowing hot air through the rotor in the regeneration section. The process air leaves the dehumidifier as dry air, and the moisture is led out of the room through the regenerated air outlet.

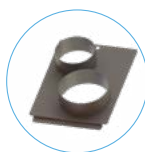


- MID approved energy counter
- Hour counter
- Internal humidistat
- One common fan for process air and regeneration air
- Cabinet in stainless steel / hot galvanized powder coated steel
- Low weight
- PTC regeneration heater
- Robust and compact metal construction
- Carrying handle
- Easy internal access for service and maintenance
- Four rubber bumpers to fix the unit in place
- Flexible dry air outlet

Optional accessories

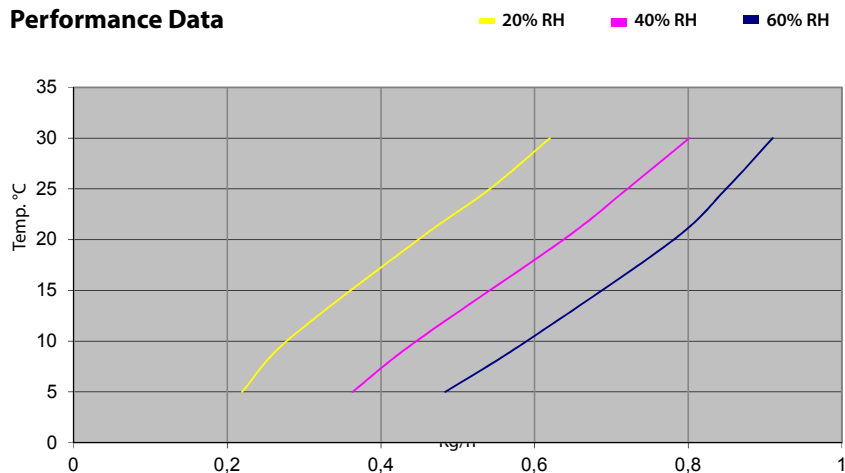


**Spare filter set
098891**



**Front plate
098893**

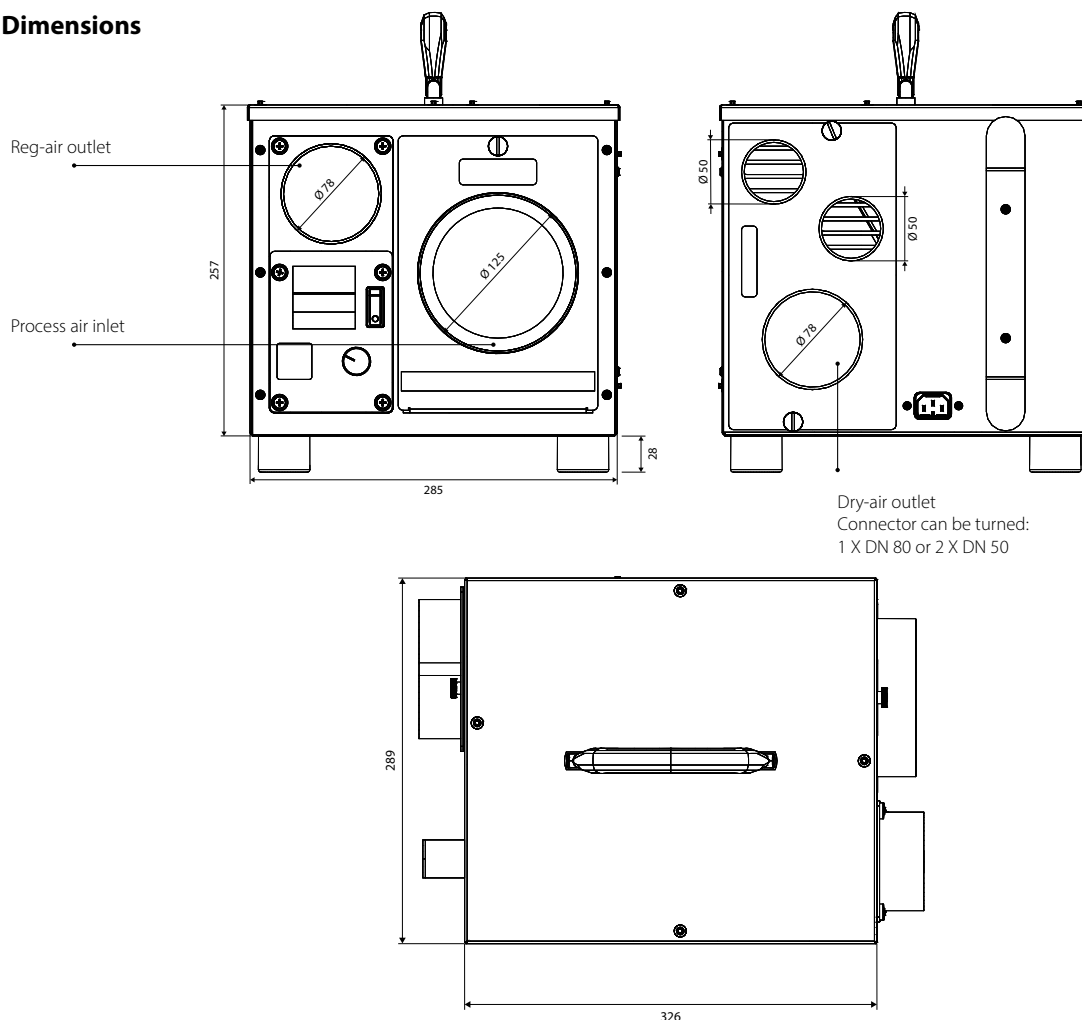
Performance Data



PORTABLE ADSORPTION DEHUMIDIFIERS

AD 200

Dimensions



Specifications	Units	AD 200
Capacity (20°C/60% RH)	kg/24h	18.75
Air volume – dry air/regeneration air	m ³ /h	210/110
Ext. pressure – dry air/regeneration air	Pa	150/50
Operating temperature range	°C	-10 - +35
Operating humidity range	% RH	10-95
Nominal power consumption	W	694
Power supply	V/Hz	230/1ph/50
Sound level	dB(A)	48
Duct sizes:		
Air inlet	Ømm	125
Dry air outlet	Ømm	1 x 80 or 2 x 50
Regeneration air outlet	Ømm	80
Power cord	m	4.5 with plug
Protection class		IP23
Product size (h x w x d)	mm	285 x 289 x 395 (incl. fittings and feet)
Weight	kg	14

PORTABLE ADSORPTION DEHUMIDIFIERS

AD 300



AD 300

The AD 300 is a robust compact adsorption dehumidifier with a silica gel rotor as standard. Process air is drawn into the dehumidifier and through the rotor, which slowly turns between two sections in the dehumidifier. The silica gel rotor adsorbs the moisture from the air in the drying section. This moisture is removed again by blowing hot air through the rotor in the regeneration section. The process air leaves the dehumidifier as dry air, and the moisture is led out of the room through the regenerated air outlet.



- MID approved energy counter
- Hour counter
- Internal humidistat
- One common fan for process air and regeneration air
- Cabinet in stainless steel / hot galvanized powder coated steel
- Low weight
- PTC regeneration heater
- Robust and compact metal construction
- Carrying handle
- Easy internal access for service and maintenance
- Four rubber bumpers to fix the unit in place
- Flexible dry air outlet

Optional accessories

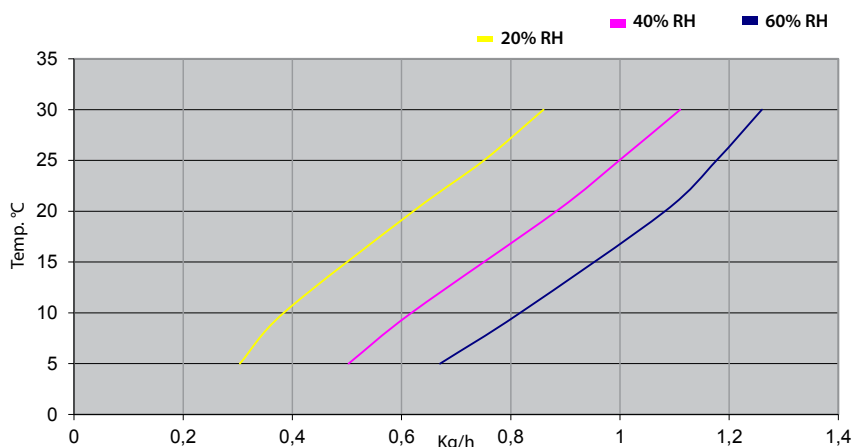


Spare filter set
098892



Front plate
098894

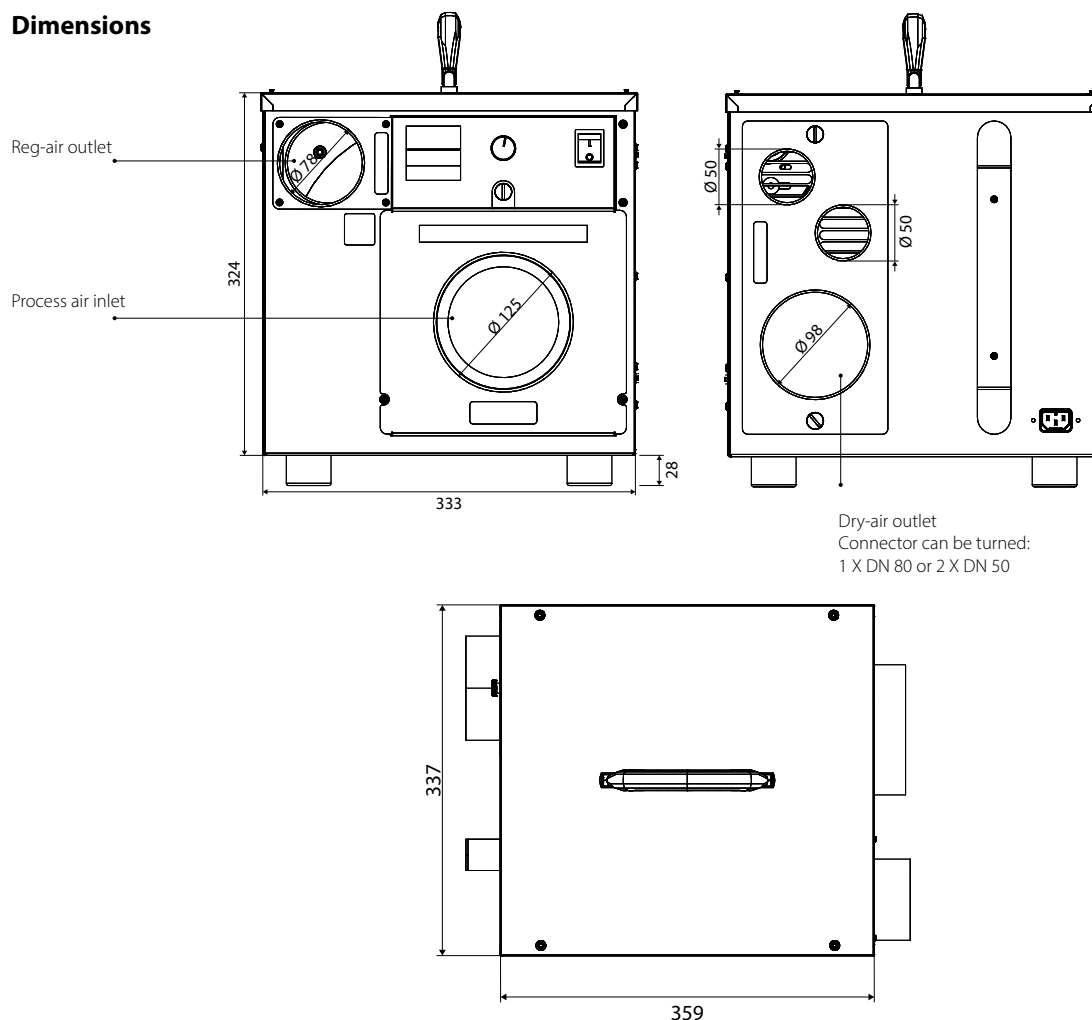
Performance Data



PORTABLE ADSORPTION DEHUMIDIFIERS

AD 300

Dimensions



Specifications	Units	AD 300
Capacity (20°C/60% RH)	kg/24h	25.7
Air volume – dry air/regeneration air	m ³ /h	300/110
Ext. pressure – dry air/regeneration air	Pa	150/50
Operating temperature range	°C	-10 - +35
Operating humidity range	% RH	10-95
Nominal power consumption	W	1040
Power supply	V/Hz	230/1ph/50
Sound level	dB(A)	57
Duct sizes:		
Air inlet	Ømm	125
Dry air outlet	Ømm	1 x 100 or 2 x 50
Regeneration air outlet	Ømm	80
Power cord	m	4.5 with plug
Protection class		IP23
Product size (h x w x d)	mm	352 x 337 x 429 (incl. fittings and feet)
Weight	kg	18

PORTABLE ADSORPTION DEHUMIDIFIERS

AD 400



AD 400

Despite weighing out at just 25 kilos, the AD 400 is the right choice for applications that require an air change of up to 480m³/h (environments of up to 450m³). That's 20% more than other units of comparable size that are currently on the market. With its integrated lifting handle and stackable design, the unit has been designed for easy handling and transportation. It comes with a built-in hour counter with an optional MID-approved energy counter. The portable adsorption dehumidifiers can run continuously, or they can be controlled by an external hygrostat.



- Ventilation only mode available – if pre-set humidity level is exceeded, normal dehumidification mode starts (only with optional external hygrostat)
- Sturdy unit made of stainless steel and powder coated sheet steel, supported by four rubber non-marking feet
- Integrated lifting handle and stackable design for easy use
- The rotor unit is easy to remove for cleaning purpose
- Dynamic, safe and self-regulating PTC heating element
- Energy-efficient radial fan
- High-performance ECODRY G3-MH rotor for maximum water absorption
- Air filter on the process air inlet
- Noise reduced via integrated silencer: 60 dB
- Connection for external hygrostat
- Non-resettable hour counter



Optional accessories



**Spare filter set
098895**

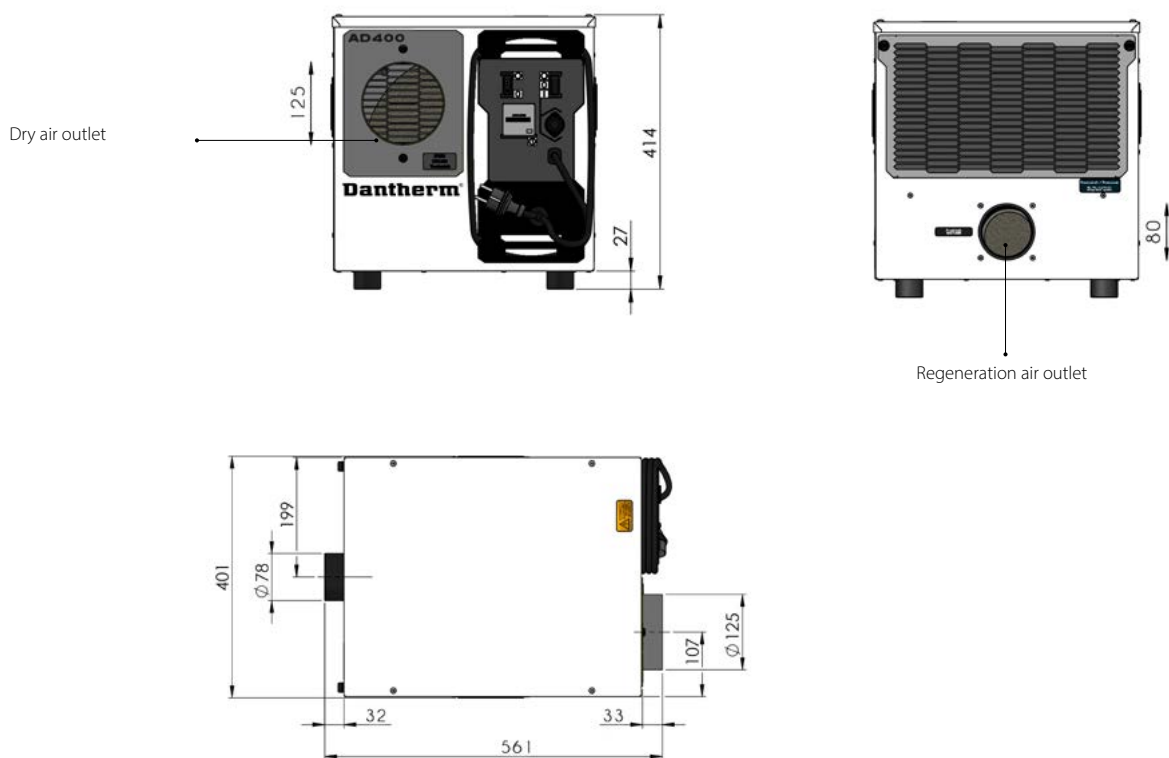


External hygrostat

PORTABLE ADSORPTION DEHUMIDIFIERS

AD 400

Dimensions



Specifications	Units	AD 400
Capacity (20°C/60% RH)	kg/24h	36
Air volume – dry air/regeneration air	m ³ /h	480/185
Ext. pressure – dry air/regeneration air	Pa	150/100
Operating temperature range	°C	-10 - +35
Operating humidity range	% RH	10-95
Nominal power consumption	W	2200
Power supply	V/Hz	230/1ph/50
Sound level	dB(A)	60
Duct sizes:		
Dry air outlet	Ømm	125
Regeneration air outlet	Ømm	80
Power cord	m	4.5 with plug
Protection class		IP23
Product size (h x w x d)	mm	410 x 395 x 560
Weight	kg	25

Dantherm A/S

Marienlystvej 65
DK-7800 Skive
Denmark
t. +45 96 14 37 00

Dantherm Ltd.

Unit 12, Galliford Road
Maldon CM9 4XD
United Kingdom
t. +44 (0)1621 856611

Dantherm GmbH

Oststraße 148
22844 Norderstedt
Germany
t. +49 40 526 8790

Dantherm S.p.A.

Via Gardesana 11
37010 Pastrengo (VR)
Italy
t. +39 045 6770533

Dantherm Sp. z o.o.

ul. Magazynowa 5a
62-023 Gądk
Poland
t. +48 61 65 44 000

Dantherm SP S.A.

C/Calabozos 6
(Polígono Industrial)
28108 Alcobendas, Madrid
Spain
t. +34 91 661 45 00

Dantherm SAS

23 rue Eugène Hénaff
69694 Vénissieux Cedex
France
t. +33 4 78 47 11 11

Dantherm AS

Løkkeåsveien 26
3138 Skallestad
Norway
t. +47 33 35 16 00

Dantherm AB

Fridhemsvägen 3
602 13 Norrköping
Sweden
t. +46 (0)11 19 30 40

Dantherm LLC

Transportnaya 22/2
142800, Stupino
Moscow
Russia
t. +7 (495) 642 444 8

MCS China

Unit 2B, No. 512
Yunchuan Road
Baoshang, Shanghai, 201906
China
t. +8621 61486668

AirCenter AG

Täferstrasse 14
CH-5405 Baden Dättwil
Switzerland
t. +41 43 500 00 50

Heylo GmbH

Im Finigen 9
28832 Achim
Germany
t. +49 4202 97550

SET Energietechnik GmbH

August-Blessing-Straße 5
71282 Hemmingen
Germany
t. +49 7150 94540

Dealer:

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