

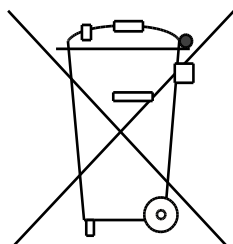
AD 400B

Service manual

Rev. 1.1

en

Dantherm®
CONTROL YOUR CLIMATE



Der tages forbehold for trykfejl og ændringer
Dantherm can accept no responsibility for possible errors and changes
Irrtümer und Änderungen vorbehalten
Dantherm n'assume aucune responsabilité pour erreurs et modifications éventuelles

Introduction

Overview

Introduction

This is the service manual for the dehumidifier AD 400 B from Dantherm.
The table of contents below provides an overview of all sections in the manual.

Warning

It is the responsibility of the operator to read and understand this service manual and other information and to employ the correct operational and maintenance procedures.
Read the whole manual before the appliance is started for the first time. It is important to be familiar with the correct operational procedures for the appliance and all precautionary safety measures in order to avoid damage to materials and/or personal injury.

Contents

The service manual includes the following topics:

Topic	See page
General information	21
Product and functional description	22
Get ready for use	25
Unpacking and installation	26
Start-up and adjustment	28
Service guide	30
Preventive maintenance	31
Accessories	33
Fault finding guide	34
Service agreement	35
Technical data	36
Technical information	72
Dimensions	73
Capacity diagram	74
Power circuit	75
Wiring diagram	76
Spare parts	79
Appendix A – External pressure	82

General information

Introduction	This section provides general information about the appliance and the service manual.																
The manual's product number	The product number of the service manual is 045787.																
Target group	The target group of the service manual is the technicians who install the appliance and carry out preventive maintenance and replace defective parts.																
Copyright	Copying this service manual or parts thereof is not permitted without prior written permission from Dantherm A/S.																
Reservations	Dantherm A/S reserves the right at any time to carry out changes or improvements to the product and service manual without prior notification or obligation.																
EU declaration of conformity 	Dantherm A/S, Marienlystvej 65, DK-7800 Skive declares at its own liability that the following product: Dehumidifier, type AD 400 B, product number 351033: covered by this declaration complies with the following directives: <table> <tr> <td>98/37/EEC</td><td>Machinery Directive</td></tr> <tr> <td>73/23/EEC</td><td>Low Voltage Directive</td></tr> <tr> <td>89/336/EEC</td><td>The EMC Directive</td></tr> </table> – and is manufactured in compliance with the following harmonised standards: <table> <tr> <td>EN 292-1</td><td>Safety of Machinery</td></tr> <tr> <td>EN 292-2</td><td>Safety of Machinery</td></tr> <tr> <td>EN 60204-1</td><td>Safety of Machinery</td></tr> <tr> <td>EN 50081-1</td><td>Generic standard</td></tr> <tr> <td>EN 50082-2</td><td>Generic standard</td></tr> </table> Skive, 14.11.2007	98/37/EEC	Machinery Directive	73/23/EEC	Low Voltage Directive	89/336/EEC	The EMC Directive	EN 292-1	Safety of Machinery	EN 292-2	Safety of Machinery	EN 60204-1	Safety of Machinery	EN 50081-1	Generic standard	EN 50082-2	Generic standard
98/37/EEC	Machinery Directive																
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89/336/EEC	The EMC Directive																
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EN 292-2	Safety of Machinery																
EN 60204-1	Safety of Machinery																
EN 50081-1	Generic standard																
EN 50082-2	Generic standard																
Other declarations	 Russia: АЯ46																
Disposal	The appliance is designed to function for many years. When the appliance requires disposal, such disposal must be carried out in compliance with national legislation and procedures to protect the environment.																

Product and functional description

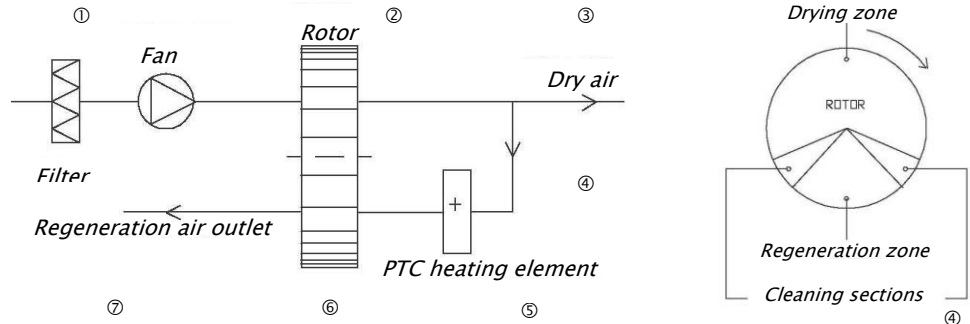
Introduction	This chapter provides a product and functionality description of AD 400 B:
Use	The dehumidifier AD 400 B removes water from the air passing through it and the removed water is led away from the dehumidifier with the regeneration air. The water absorption itself and the giving off of water take place through adsorption in a water-resistant silica gel rotor (tolerates water).
IMPORTANT!	The air to be dried must be free of contamination by solid particles, chemical substances, solvents and explosive fumes/gasses. The same applies to the regeneration air used. Likewise the dehumidifier must not be set up in locations where explosive fumes/gasses, oil fumes, exhaust fumes from diesel engines, etc. may occur. Do not expose the appliance to loads of 20 kg or above as this may damage the dehumidifier.
Air	The limit value for the intake air for air temperature is 45°C and the limit value for max/min air pressure is atmospheric $\pm$ 300 Pa. Varying air pressure occurs most often when the dehumidifier is connected to other air conditioning systems. Pressure in the main system will then be transmitted to the dehumidifier. Because excessive pressure variations may reduce the capacity of the dehumidifier, you should contact the supplier from whom you purchased the dehumidifier for advice in these cases.
PTC heating elements	The heating elements consume energy depending on the value of the air flowing through, i.e. no air = no energy consumption. No operational or safety thermostats are therefore mounted as their function would be to ensure a given temperature for a varying air flow. The mounted heating elements ensure this in themselves. Warning: Do not touch the heating elements when they are powered on as fins/ribs are live.
Timer/relay	The timer must connect the two installed heating elements in two steps in order to reduce the start power. On start-up of the dehumidifier E2 should be connected immediately whereas E1 should only be connected via relay/timer approx. 30 seconds later. This function can be tracked on the mounted ammeter which is connected to the heating elements.
Installation	AD 400 B is designed for indoor, stationary installation. It should not be installed where water may come into contact with the cabinet. See section "Unpacking and installation" page 26.

Continued overleaf

Product and functional description, *continued*

Illustration

The following illustrates the air's passage through the dehumidifier:



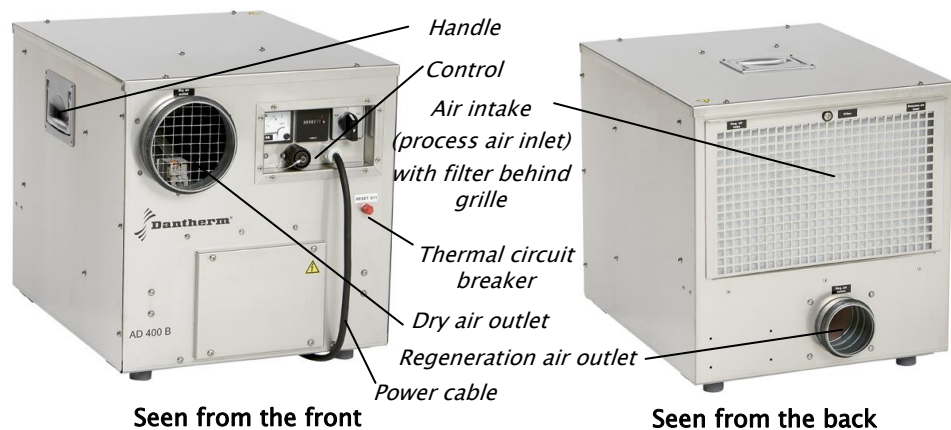
How the dehumidifier works – The following describes the air's passage through the dehumidifier:

Phase	Description
1	The fan draws in humid air through the filter in the dehumidifier
2	The rotor absorbs the humidity from the humid air
3	The dry air leaves the dehumidifier
4	The regeneration air is taken from the two 30-degree sections of the rotor located on each side of the regeneration section
5	The PTC heating element warms up the regeneration air to approx. 110 °C (at 20 °C intake)
6	The regeneration air absorbs the humidity from the rotor
7	The humid regeneration air leaves the dehumidifier

The two air passages are fixed and the rotor turns and an automatic and continuous drying/regeneration process is thus achieved.

Illustration

This illustrates the dehumidifier:

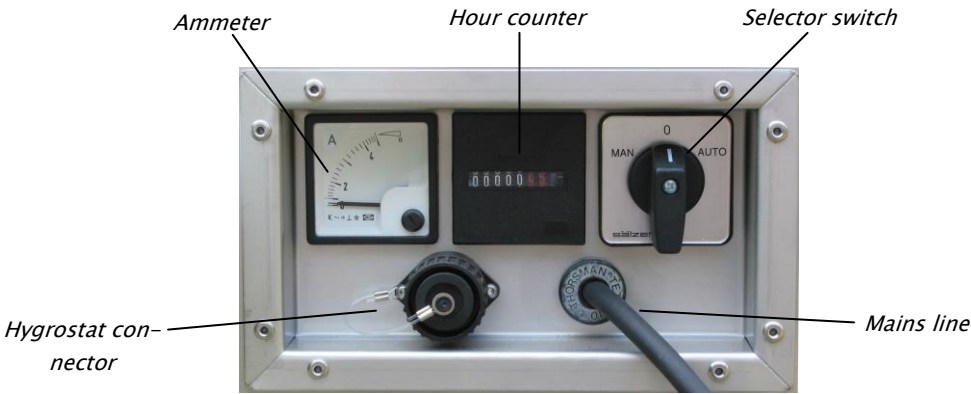


Continued overleaf

Product and functional description, *continued*

Illustration,
control

This illustrates the control:



Part/function
control

The following describes the function of the different parts of the control:

Part	Function
Ammeter	Display where current is shown
Hour counter	Counter showing the number of operational hours
Selector switch	Switch where required position is set: • MAN: Continuous operation • 0: Disconnected • AUTO: Hygrostat-controlled (accessory)
Mains line	Supplies power to the appliance
Hygrostat connector	The appliance can be controlled by hygrostat control and/or dew point control (accessory). See section "Accessories" page 33.

Get ready for use

Overview

Contents

This section covers the following topics:

Topic	See page
Unpacking and installation	26
Start-up and adjustment	28

Unpacking and installation

Introduction This section will guide you through the unpacking and installation of AD 400 B.

Important Only trained and certified technicians are permitted to install the appliance!

Before you start Ensure that you have the following at hand before you start the installation:

- Ducts/pipes
- Clips

Use ducts/pipes of the same size as the mounted connections.

Connected output, output consumption and air flow The heating element will be able to use 2700 W at maximum air flow which is not possible in the dehumidifier. The output use in the heating element depends on the air passing through (the regeneration air flow). This is determined by the dehumidifier's internal pressure conditions which are primarily determined by current process air flow.

Packaging AD 400 B is packed in a cardboard box.

Procedure Follow this procedure to unpack the dehumidifier and install it:

Step	Action
1	Open the cardboard packing at the top and pull the appliance out of the box using the handles on the sides of the appliance
2	Place the appliance indoors on a horizontal surface resting on the four rubber foot supports
3	Connect the regeneration air outlet on the back of the appliance with a duct/pipe ø80 draining away from the appliance. The duct must be as short as possible. NOTE: If the duct rises away from the dehumidifier, drainage must be ensured e.g. with a drain hole, min. ø4 at the lowest position

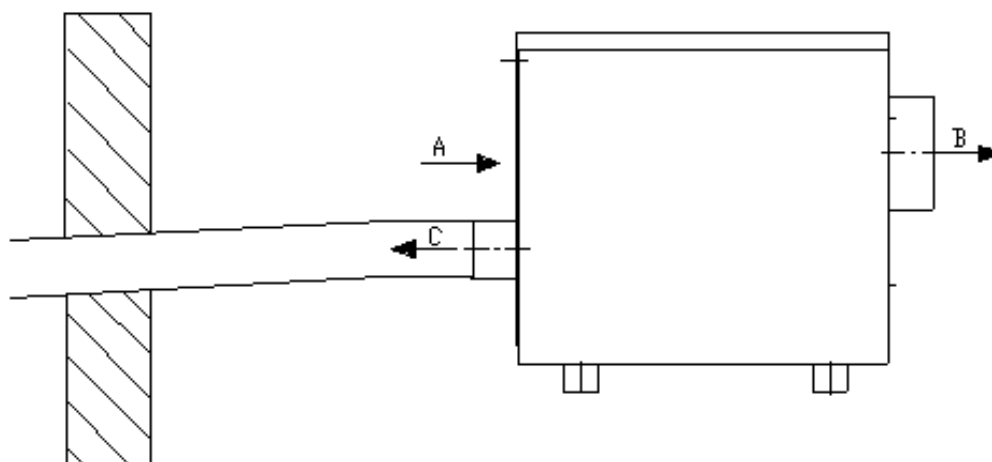
Follow this procedure for the installation of the remaining ducts/pipes if required for the dehumidifying process:

Step	Action
4	Provide the dry air outlet with a duct/pipe ø125 and damper, if required, for regulation of air flow
5	Replace the net for the air inlet with a plate to reduce process air inlet and regeneration air inlet (accessories). See section "Accessories" page 33.

Continued overleaf

Unpacking and installation, *continued*

Illustration
duct connections



	DA	EN	DE	FR
A	Procesluft tilgang	Process air intake	Prozesslufteintritt	Entrée d'air process
B	Tørluft afgang	Dry air outlet	Trockenluftaustritt	Sortie d'air sec
C	Regenereringsluft afgang	Regeneration air outlet	Regenerationsluft-austritt	Sortie d'air ré-génération

Start-up and adjustment

Introduction	This section will guide you through the start-up and adjustment of AD 400 B.
Electric connection	The dehumidifier is supplied with a 2-metre connection cable with a connector for 230 V + PE. The connected output is 2.1 kW, fuse 10A.
Optimum process	The optimum process is always at the nominal data, i.e. 8.0 A for the energy consumption of the heating elements = 85 m³/h. This is set on the external damper which should always be mounted in the regeneration outlet. Nominal energy consumption is therefore 1840 W at 230 V. Note The capacity of the dehumidifier does not increase if a value greater than 8 A is set on the ammeter. If it is set to less than 7 A, the heating element and rotor may be damaged. The heating elements have a current of up to 15 A which is why the ammeter during start-up will show results of more than 10 A. Start-up takes place in two steps using the in-built timer and the delay is 30 seconds which can be seen on the ammeter.

Procedure Follow this procedure for start-up and adjustment of the appliance:

Step	Action
1	Check that all ducts/pipes are correctly connected and the clips are tightened
2	Check that the filter is in place
3	Connect the plug to 230 V AC
4	Set the selector switch to the required position: • MAN = Continuous operation • 0 = Disconnected • AUTO = Hygrostat-controlled (accessory) 
5	The regeneration air flow should be adjusted using a damper (not included) until the ammeter shows 8.0 A (the greater the back pressure for the dry air, the greater the regeneration air flow, the more amps)

The dehumidifier is now set to a nominal capacity and is ready for use.

Continued overleaf

Start-up and adjustment, *continued*

Constant fan operation for hygrostat-controlled dehumidifier This operation mode is only used when a hygrostat is connected! When the dehumidifier is controlled by a hygrostat it may in some cases be desirable to let the fan run no matter whether the dehumidifier is running or not. In such cases fan and rotor are in operation continuously. The hygrostat switches the heating element on and off in accordance with the set value. When the heating element is switched off there is no dehumidification.

In order to obtain this operation mode, the wiring has to be changed as follows, please see the section "Power circuit", page 75:

Step	Action
1	Dismantle the top cover
2	Change the connection between terminal 4 and 5 at the bottom of the terminal block, thus creating a connection between terminal 4 and 6. (see numbering at the inside of the top cover)
3	Move the terminal connection SA1 to terminal 4 at the top of the terminal block from terminal 4 to terminal 7.

Service guide

Overview

NOTE

Parts are shown from page 79.

Important

The mains connector must always be disconnected before the dehumidifier is serviced!

Contents

This section covers the following topics:

Topic	See page
Preventive maintenance	31
Accessories	33
Fault finding guide	34
Service agreement	35

Preventive maintenance

Introduction The dehumidifier consists of few moveable parts and otherwise of components of high quality and long life.
Preventive maintenance in the form of cleaning and regular service should be carried out to ensure continued operation and to maximise durability. It is important to note that the intervals between services may vary depending on the environment in which the appliance is installed.

Service contract Dantherm A/S offers a service contract that includes preventive and/or corrective maintenance – see more about this in section "Service agreement", page 35.

Tools No special tools are required.

IMPORTANT! The mains connector must always be disconnected before preventive maintenance is commenced!
If the dehumidifier has been operational, the heating element should be left to cool for 15 minutes before the dehumidifier is dismantled.

Changing the filter If the appliance is used as a construction dehumidifier, the air filter should be replaced every third day. Otherwise the filter should be replaced as required depending on the environment in which the appliance is used.
Carry out the following to replace the filter:

Step	Action
1	Ensure that power to the appliance is disconnected
2	Dismantle the net on the air inlet on the back of the appliance
3	Take out the filter and clean it with compressed air/vacuum cleaner or replace, if required
5	Reinsert the filter
6	Mount the net on the air inlet and reconnect the power

Continued overleaf

Preventive maintenance, *continued*

Service/cleaning

Carry out the following to service and clean the appliance:

Step	Action
1	Ensure that power to the appliance is disconnected
2	Dismantle top cover
3	Dismantle the cabinet's front plate and release the wires to the dehumidifier's parts in the internal terminal. The wires are marked to ensure safe reassembly
4	Separate the wires to the fan at socket/cable shoe and pull the fan and the plate on which it is mounted up and move it into the upper position backwards and out of the cabinet
5	Pull the pipe for regeneration air off the pipe stubs in the cabinet and at the rotor sector and remove it from cabinet
6	Clean the cabinet with compressed air, vacuum cleaner or water/soap
7	Clean the rotor with compressed air (limited pressure)
8	Clean the duct stubs with compressed air
9	Check the motor and driving belt for rotor
10	Check the fan
11	Check the heating elements
12	Check the strips
13	Check the electrical equipment and wires
14	Adjust external humidity control (optional extra)
15	Remount the dismantled parts in reverse order
16	Connect power to the appliance
17	Carry out a function test of the appliance (check heat and air and whether the rotor is turning) NOTE Check with your hand that the dry air temperature is warmer than the process air temperature (+ 10–15°C). Check that the regeneration air temperature is warmer than the process air temperature (40–50°C).

Rotor wash

The rotor can be washed with water and a little detergent. Washing the rotor must however not be carried out unless it is very dirty and is thus not part of the standard maintenance routine. Contact Dantherm your supplier to obtain a guide to rotor wash.

Warranty conditions

The factory warranty is only valid with documented preventive maintenance. Maintenance must have been carried out at intervals of a minimum of six months. The documentation must be in the form of a written log/journal.

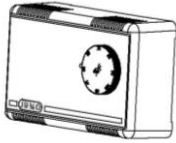
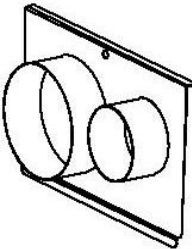
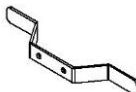
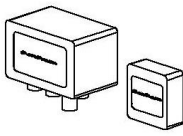
Accessories

Introduction

Further information about individual accessories can be obtained from Dantherm A/S.

List

The complete list of accessories for AD 400 B with drawing, description and product number is shown below:

Accessory	Illustration	Description	Product number
Hygrostat		The dehumidifier is designed for connection to an external hygrostat which is used when the maintenance of a certain RF value is required. The hygrostat can be set from 30–100% relative humidity. The cable from the hygrostat must be provided with a male connector that fits into the dehumidifier's hygrostat connector on the front of the cabinet.	351036
Back plate		For standard operations minor low pressure may occur in the room where the dehumidifier is located, because the regeneration air is led from the room via duct. This may in some cases not be desirable and in such cases the back plate with two stubs for process air, in and regeneration air, in may be used.	351039
Electrical wire holder		Used if mounting of electrical wires is required.	351035
Dew point control DH24		Combines an electronic hygrostat and dew point control in one and the same product. DH 24 consists of a connection box with humidity and temperature sensor and a separate control panel.	351037

Fault finding guide

Fault finding

Use this table to locate and remedy a problem or a fault:

Problem	Cause	Action
The dehumidifier does not start	The mains connector has not been connected or the group fuse has blown	Check that the power supply to the dehumidifier is in order. Is the plug connected? If the plug is connected, check the group fuse Check also that the selector switch on the dehumidifier is in the required position
The dehumidifier is not operational	If a hygrostat is installed as an optional extra, it may have disconnected the dehumidifier	Check this by setting the hygrostat down to e.g. 20% RF. The dehumidifier will then start.
Heat is not connected	Thermal circuit breaker is disconnected	Press the red reset button on the front of the dehumidifier
The dry air is colder than the inlet air and the regeneration air is warmer than normal	The rotor is not running	Check rotor, engine and belt
The required regeneration and dry air are not there	The fan is not working	Check the fan
The regeneration air is cold	Error on heating element	Check that the ammeter shows 7,8 – 8,0 A

Note

If the dehumidifier is not functioning as it should, it must be disconnected immediately!

Further help

If the dehumidifier does not restart, contact Dantherm your supplier.

Service agreement

Introduction	The unit includes mechanical and electrical parts and the unit is often placed in a rough environment where the components are exposed to different climate conditions. Therefore the unit will need preventative maintenance on a regular basis.
Hotline	The After Sales Support Department of Dantherm A/S is ready to help you in case of a problem. To be able to offer quick and efficient help, please have the following information ready when contacting Dantherm A/S: • Name • Phone no. • Site/location (unit) • Company • Email • Serial no/order no. • Country • Type (unit) • Description of the problem Contact Dantherm A/S, ask for the After Sales Support department and help will be provided as soon as possible: Phone: +45 96 14 37 00 Fax: +45 96 14 38 00 Email: service@dantherm.com
Preventive maintenance	Dantherm A/S offers to do the preventive maintenance on the units so that they at all times will operate according to factory standards.
Corrective and emergency repair	In case of malfunctions of the product Dantherm A/S offers to do emergency repair on the climate units. Agreements will be made with the customer on response time and price.
Setup	Dantherm A/S has established a network of service partners to do the preventative maintenance. The partner is trained and certified on the actual climate units. The partner will also carry an adequate number of spare parts – so that any repairs can be made during the same visit. The agreement will be made with Dantherm A/S – and the overall responsibility for the agreement will be Dantherm A/S's.
Further information	For further information about a service agreement in your country or region, please contact: Henrik Hersted After Sales Support Manager Dantherm A/S Phone: +45 9614 4767 Mobile: +45 2399 4066 Email: heh@dantherm.com

Technical data

Data

The table below shows the dehumidifier's technical data:

Specification	Unit	Value
Dry air flow, free-blowing	m ³ /h	420
Dry air flow, nominal	m ³ /h	400
Regeneration air flow	m ³ /h	85
External pressure, process air at 400 m ³ /h	Pa	20
External pressure, regeneration air	Pa	200
Capacity at 20°C 60%RF	kg/h	1,4
Specific capacity at 20°C 60%RF	g/kg	3,1
PTC heating element, max.	W	2700
PTC heating element, nominal	W	1840
PTC heating element, nominal	A	9,1
PTC heating element, nominal	V	230
Fan	W	300
Motor for gear	W	5
Connected output, nominal	W	2100
Current	V	220-230
Current	Hz	50
Rotor		Silica gel ø300/10
Rotor revolutions	o/h	20
Driving belt		Ø8/1070
LxWxH, cabinet	mm	550 x 405 x 427
Weight	kg	28
Sound pressure level (1 m from cabinet middle and 1.6 m above ground)	dB(A)	62

Teknisk information/Technical information/Technische Hinweise/Renseignements techniques

DA

Emne	Se side
Dimensioner	73
Kapacitetsdiagram	74
Nøglediagram	75
Ledningstræk	76

EN

Topic	See page
Dimensions	73
Capacity diagram	74
Power circuit	75
Wiring diagram	76

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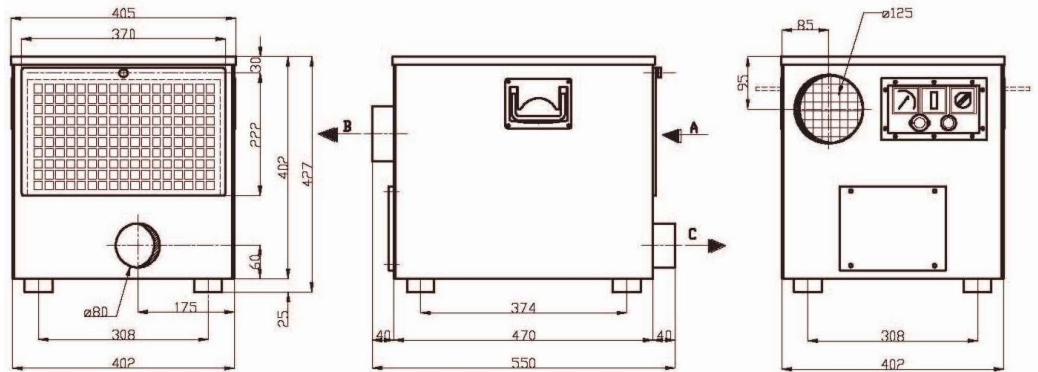
Thema	Siehe Seite
Abmessungen	73
Kapazitätsdiagramm	74
Stromkreis	75
Schaltplan	76

FR

Sujet	Voir page
Dimensions	73
Diagramme de capacité	74
Circuit à courant	75
Schéma électrique	76

Dimensioner/Dimensions/Abmessungen/Dimensions

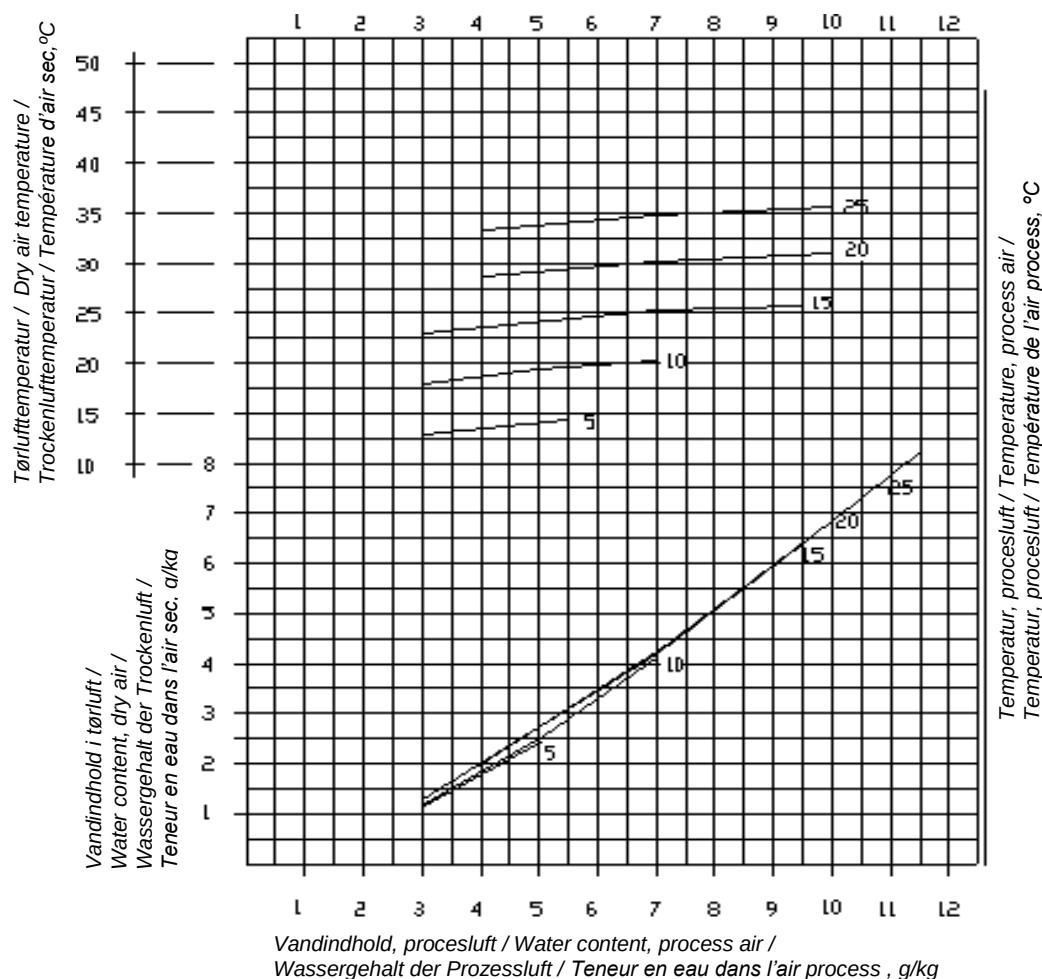
Illustration
Abbildung



	DA	EN	DE	FR
A	Procesluft tilgang	Process air intake	Prozesslufteintritt	Entrée d'air process
B	Tørluft afgang	Dry air outlet	Trockenluftaustritt	Sortie d'air sec
C	Regenereringsluft afgang	Regeneration air outlet	Regenerationsluft-austritt	Sortie d'air ré-génération

Kapacitetsdiagram/Capacity diagram/ Kapazitätsdiagramm/ Diagramme de capacité

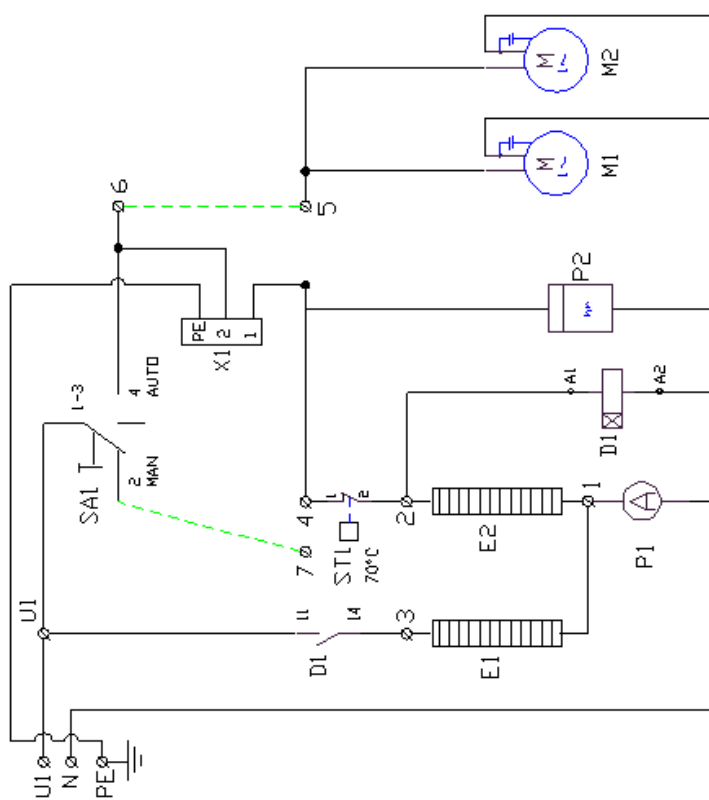
Diagram
Diagramm
Schéma



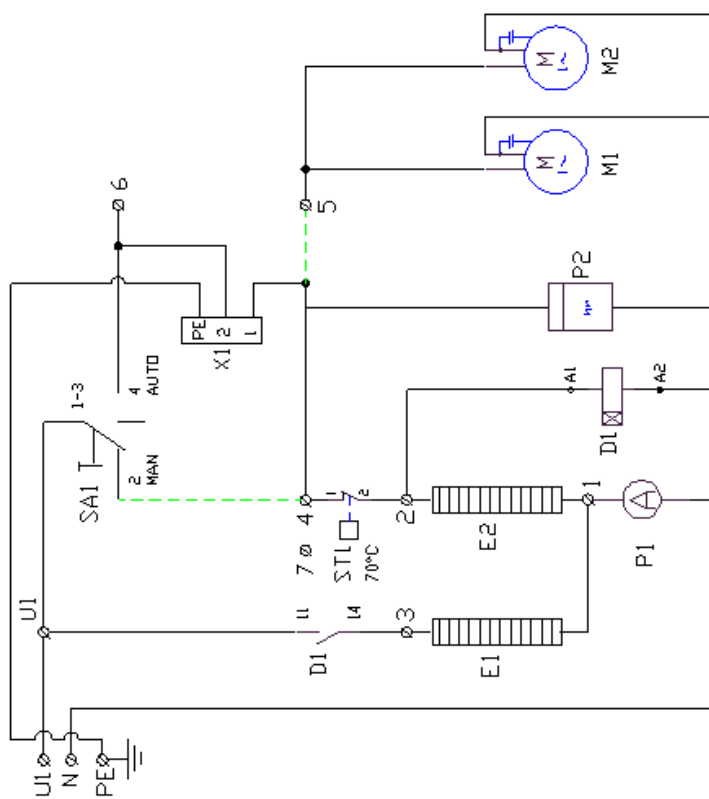
Nøglediagram/Power circuit/Stromkreis/Circuit à courant

Diagram
Diagramm
Schéma

Konstant drift / Continuous operation /
Dauerbetrieb / Fonctionnement continu

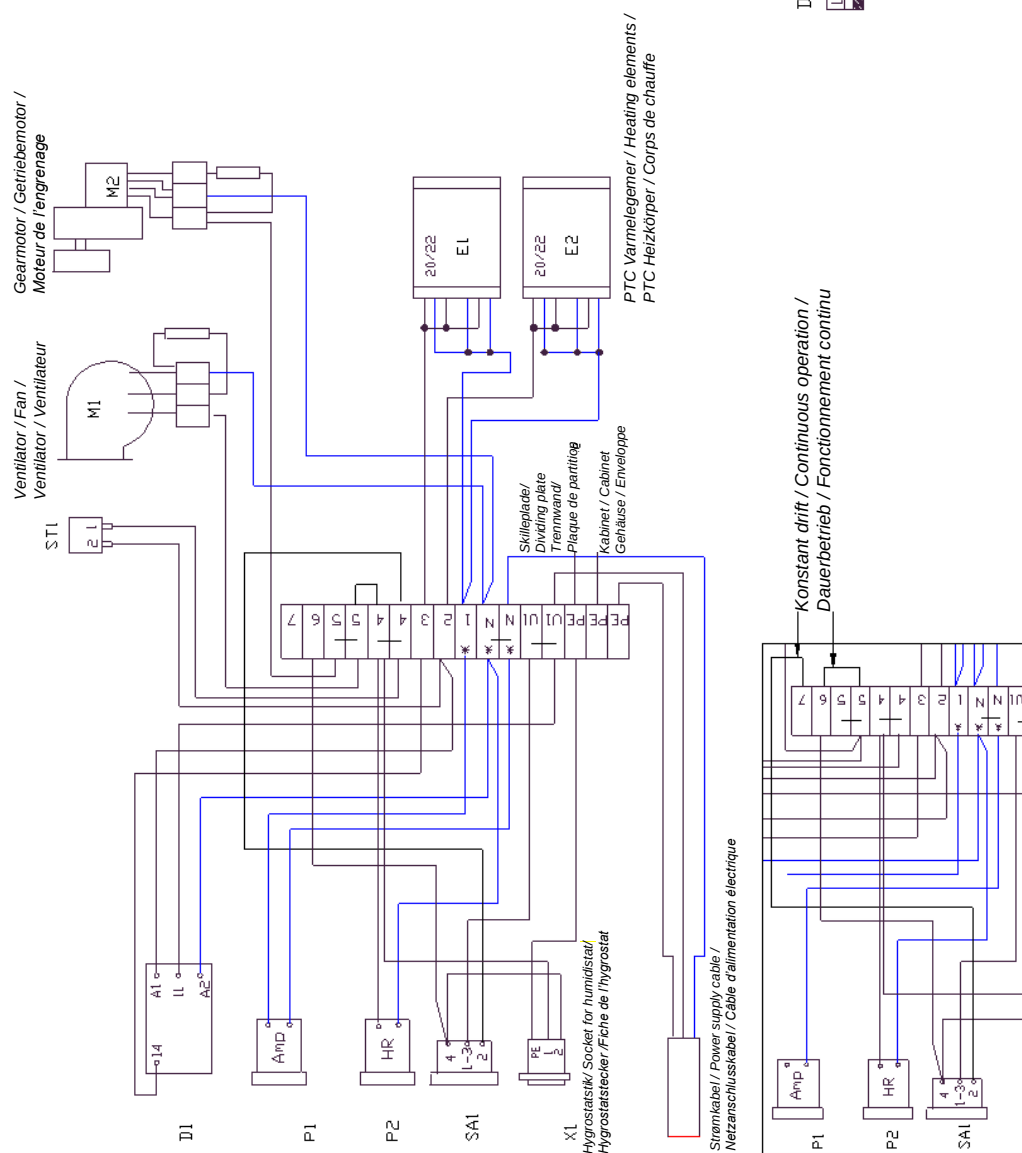


Standard drift / Standard operation /
Standardbetrieb / Fonctionnement standard



Ledningstræk/Wiring diagram/Schaltplan/Schéma électrique

Diagram
Diagramm
Schéma



Continued overleaf

Ledningstræk/Wiring diagram/Schaltplan/Schéma électrique, *continued*

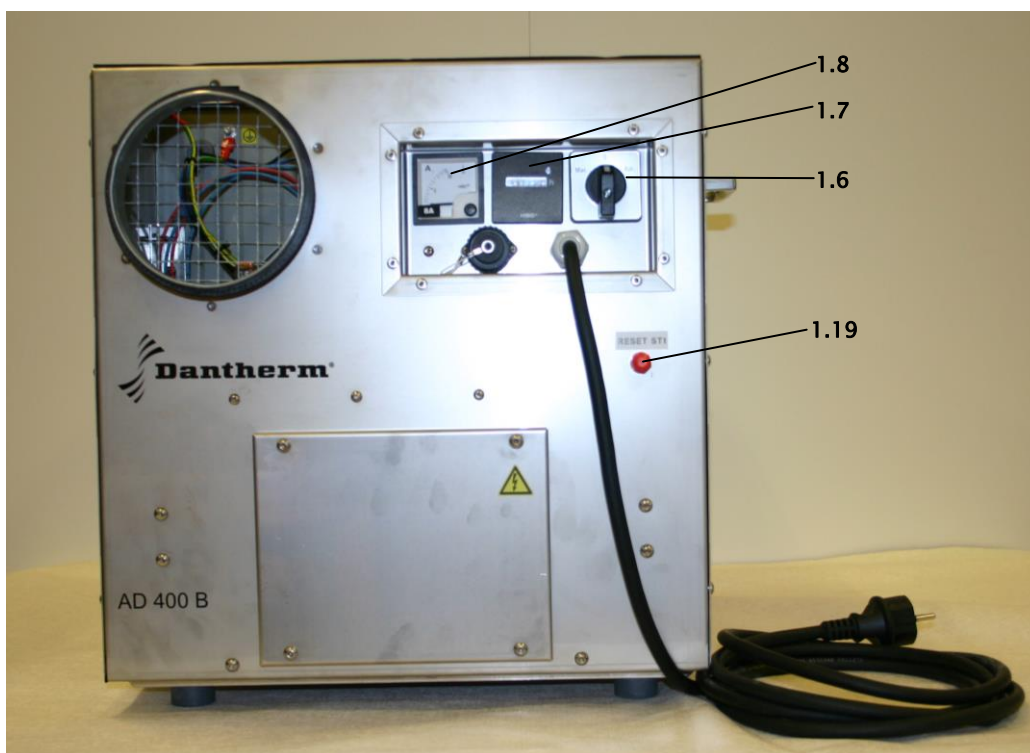
Ordforklaring/ Legend

Position	DA	EN
	Beskrivelse	Designation
SA1	Drejeomskifter	Selector switch
P2	Amperemeter	Ammeter
P1	Timetæller	Hourcounter
M2	Motor for drivgear	Motor for gear
M2	Kondensator	Capacitor
M2	Gear	Gear
M1	Ventilator	Fan
M1	Kondensator	Capacitor
E1	Varmelegeme	Heating element
E2	Varmelegeme	Heating element
X1	Hygrostatstik på affugter	Connector on cabinet for hygrostat
X1	Hygrostatstik på kabeltilslutning	Connector for hygrostat cable
X1	Blændkappe	Cover for connector
D1	Relæ	Relay
D1	Timer	Timer
D1	Sokkel	Socket
ST1	Termosikring	Thermal circuit breaker
PE	Tilslutning af beskyttelsesleder	Connection of protective conductor

Continued overleaf

Reservedele/Spare parts/Ersatzteile/Pièces détachées

Illustration
Abbildung



Continued overleaf

Reservedele/Spare parts/Ersatzteile/Pièces détachées, *continued*

Reservedele/
spare parts

Pos.	Dantherm Air Handling Nr./No.	DA Beskrivelse	EN Description
1.1	040817	Kilerem Dn 8/1070	Drive belt Dn 8/1070
1.2	040883	Rød slange Dn80, 17 cm	Red hose Dn80, 17 cm
1.3	040804	Isolering, sort DN89	Insulation, black DN89
1.4	040818	Filter 260x400	Filter 260x400
1.5	040873	Rotor Dn 300/100	Rotor Dn 300/100
1.6	040807	Drejeomskifter M/0/A	Selector switch M/0/A
1.7	040794	Timetæller	Hour Counter
1.8	040813	Amperemeter 10A, 48x48	Ammeter 10A, 48x48
1.9	040874	Saia Motor UFR40.230	Saia Motor UFR40.230
1.10	040875	Saia Gear J30S	Saia Gear J30S
1.11	040814	Varmelegeme HRKK 20/22	Heating element HRKK 20/22
1.12	040891	PTFE Isolering, enkelt	PTFE Insulation, single
1.13	040877	PTFE Isolering, dobbelt	PTFE Insulation, double
1.14	040815	Ventilator GE160-2b	Fan GE160-2b
1.15	040816	Kondensator for ventilator 6 µf	Capacitor for fan 6 µf
1.16	040878	Sokkel for relæ	Socket for relay
1.17	040880	Timer	Timer
1.18	040881	Relæ	Relay
1.19	040882	Termostat 1p, 75c	Thermostat 1p, 75c
1.20	046384	Kondensator for gearmotor 0,22 µf	Capacitor for gearmotor 0,22 µf
1.21	046383	Remskive SPZ63-1	Pulley SPZ63-1

Continued overleaf

Appendiks A – Eksternt tryk/Appendix A – External pressure/ Anhang A – Externer Druck/Appendice A – Pression externe

Eksternt tryk

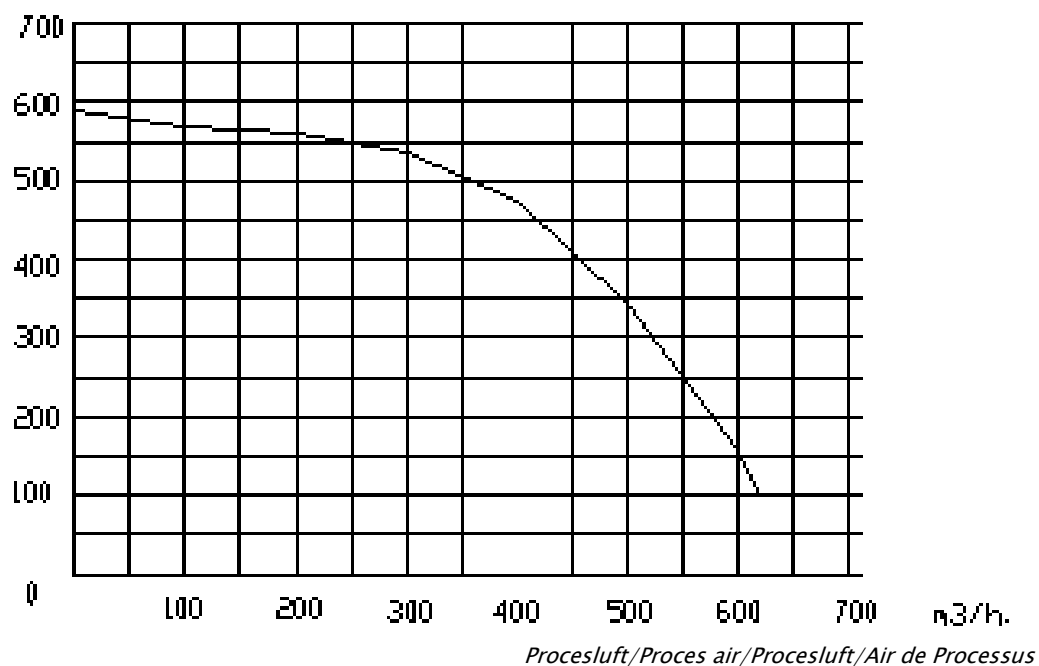
External pressure

Externer Druck

Pression externe

Eksternt tryk/External pressure/Externer Druck/Pression externe

P_D .



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