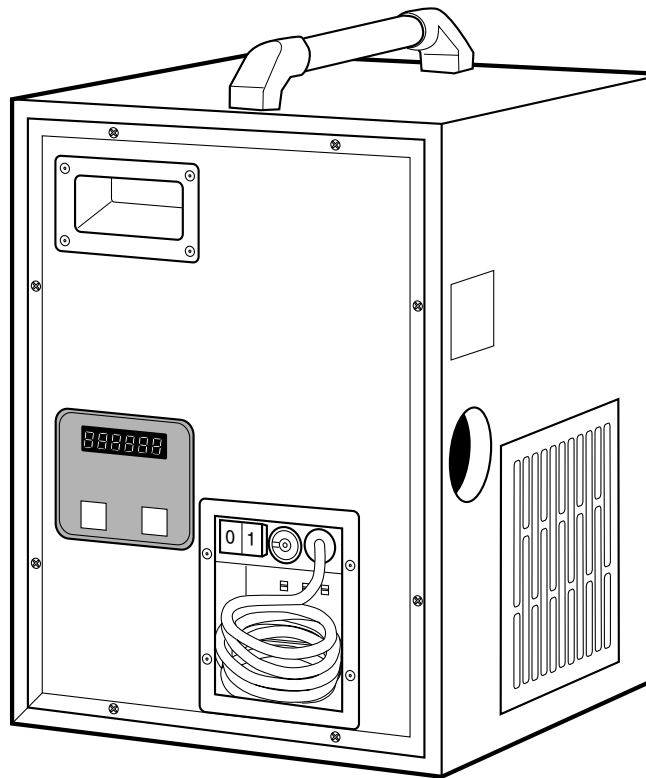


# User manual

## MCS300



# Desiccant dehumidifier

## Important user information

### Intended use

Munters dehumidifiers are intended to be used for the dehumidification of air. Any other use of the unit, or use which is contrary to the instructions given in this manual, can cause personal injury and damage to the unit and other property.

No modification of the unit is allowed without prior approval by Munters. Attachment or installation of additional devices is only allowed after written agreement by Munters.

### Warranty

The warranty period is valid from the date the unit left our factory, unless otherwise stated in writing. The warranty is limited to a free exchange of parts or components which have failed as a result of defects in materials or workmanship.

All warranty claims must include proof that the fault has occurred within the warranty period and that the unit has been used in accordance with the specifications. All claims must specify the unit type and fabrication number. This information is stamped on the identification plate, see section *Marking*.

It is a condition of the warranty that the unit for the full warranty period is serviced and maintained as described in section *Service and maintenance*. The service and maintenance must be documented for the warranty to be valid.

### Safety

Information about dangers are in this manual indicated by the common hazard symbol:



#### **WARNING!**

*Indicates a possible danger that can lead to personal injury.*



#### **CAUTION!**

*Indicates a possible danger that can lead to damage to the unit or other property, or cause environmental damage.*

**NOTE!** *Highlights supplementary information for optimal use of the unit.*

### Copyright

The contents of this manual can be changed without prior notice.

**NOTE!** *This manual contains information which is protected by copyright laws. It is not allowed to reproduce or transmit any part of this manual without written consent from Munters.*

*Munters Europe AB  
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# Table of contents

<b>Important user information</b> .....	ii	4.6.1 Installation .....	10
Intended use .....	ii	4.6.2 Humidistat connection kit .....	11
Warranty .....	ii	<b>5 Operation</b> .....	12
Safety .....	ii	5.1 General .....	12
Copyright .....	ii	5.2 Quick stop .....	12
		5.3 Start .....	13
		5.3.1 Measured values .....	13
		5.3.2 Manual operation .....	13
		5.3.3 Automatic operation .....	13
		5.4 Stop .....	14
		5.5 Adjusting the reactivation temperature .....	14
		5.6 Fault indication .....	14
<b>Table of contents</b> .....	iii	<b>6 Service and maintenance</b> .....	15
<b>1 Introduction</b> .....	1	6.1 General .....	15
1.1 About this manual .....	1	6.2 Maintenance schedule .....	15
1.2 Unintended use .....	1	6.3 Filter replacement .....	16
1.3 Safety .....	2	<b>7 Fault tracing</b> .....	17
1.4 Marking .....	3	7.1 General .....	17
<b>2 Function overview</b> .....	4	7.2 Safety .....	17
<b>3 Transport, inspection and storage</b> .....	5	7.3 Fault tracing list .....	18
3.1 Transport .....	5	<b>8 Capacity diagrams</b> .....	19
3.2 Inspection of delivery .....	5	<b>9 Fan diagrams</b> .....	20
3.3 Storing the equipment .....	5	<b>10 Sound data</b> .....	21
<b>4 Installation</b> .....	6	<b>11 Technical specification</b> .....	22
4.1 Safety .....	6	<b>12 Scrapping and disposal</b> .....	23
4.2 Fitting the silencer .....	6	<b>13 Contact Munters</b> .....	24
4.3 Site requirements .....	7		
4.4 Connection of ducts and hoses .....	7		
4.4.1 General .....	7		
4.4.2 Closed airflow system .....	8		
4.4.3 Open airflow system .....	9		
4.5 Electrical connections .....	10		
4.6 Connecting the humidistat .....	10		

# 1 Introduction

## 1.1 About this manual

This manual is written for the user of the dehumidifier. It contains necessary information for how to install and use the dehumidifier in a safe and efficient way. Read through the manual before the dehumidifier is installed and used.

Contact your nearest Munters office if you have any questions regarding the installation or the use of your dehumidifier.

This manual must be stored in a permanent location close to the dehumidifier.

## 1.2 Unintended use

- The dehumidifier is not intended for outdoor installation.
- The dehumidifier is not intended for use in classified areas where explosion safety compliant equipment is required.
- The dehumidifier must not be installed near any heat generating devices that can cause damage to the equipment.



### **CAUTION!**

*Do not sit, stand, or place any objects on the unit.*

### 1.3 Safety

Every measure has been taken in the design and manufacture of the dehumidifier to ensure that it meets the safety requirements of the directives and standards listed in the EU Declaration of Conformity.

The information in this manual shall in no way take precedence over individual responsibilities or local regulations.

During operation and other work with a machine it is always the responsibility of the individual to consider the following:

- The safety of all persons concerned.
- The safety of the unit and other property.
- The protection of the environment.

The types of dangers that are indicated in this manual are described in the section *Important user information*.



#### **WARNING!**

- *The unit must not be splashed with or immersed in water.*
  
- *All electrical installations must be carried out by a qualified electrician and in accordance with local regulations.*
  
- *The unit must be connected to an earthed electrical outlet.*
  
- *The unit must never be connected to another voltage or frequency than what is specified on the identification plate. Too high line voltage can cause electrical shock hazards and damage to the unit.*
  
- *Do not operate the unit if the power plug or cord is damaged, risk of electrical shock.*
  
- *Do not pull the plug with wet hands, risk of electrical shock.*
  
- *Do not insert fingers or any objects into the air vents, rotating fans are inside.*
  
- *Do not cover the unit as that can block air intake or outlet and cause a fire.*
  
- *If the unit has overturned, cut the power immediately.*
  
- *Always contact Munters for service or repair.*

## 1.4 Marking

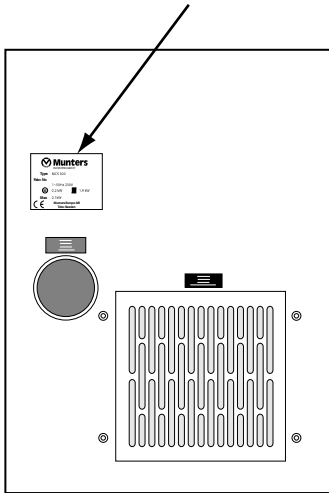


Figure 1.1 Identification plate position

## 2 Function overview

The desiccant rotor is the adsorption dehumidifying component in the unit. The rotor structure is comprised of a large number of small air channels.

The desiccant rotor is made of a composite material that is highly effective in attracting and retaining water vapour. The rotor is divided in two zones. The airflow to be dehumidified, **process air**, passes through the largest zone of the rotor and then leaves the rotor as **dry air**. Since the rotor rotates slowly, the incoming air always meets a dry zone on the rotor, thus creating a continuous dehumidification process.

The airflow that is used to dry the rotor, **reactivation air**, is heated. The reactivation air passes through the rotor in the opposite direction to the process air and leaves the rotor as **wet air** (warm, moist air). This principle enables the dehumidifier to work effectively, even at freezing temperatures.

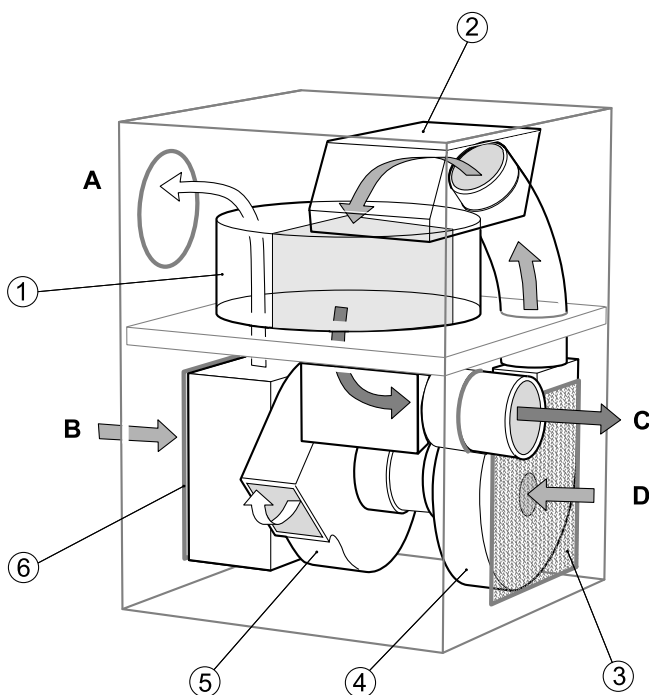


Figure 2.1 Function overview

- |                        |                     |                |                     |
|------------------------|---------------------|----------------|---------------------|
| 1. Rotor               | 4. Reactivation fan | A. Dry air     | C. Wet air          |
| 2. Reactivation heater | 5. Process fan      | B. Process air | D. Reactivation air |
| 3. Filter              | 6. Filter           |                |                     |

## 3 Transport, inspection and storage

### 3.1 Transport

- Store the power cable in the cable storage compartment during transport, see *Figure 3.1*.
- Use the handle when lifting the dehumidifier.
- If possible, use a pallet loader to move the dehumidifier.
- Use the original packaging when shipping the dehumidifier.

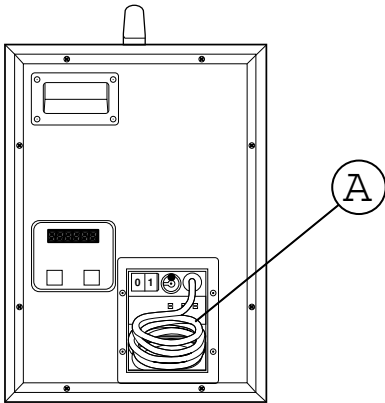


Figure 3.1 Cable compartment (A)

### 3.2 Inspection of delivery

- Do an inspection of the delivery and compare with the delivery note, order confirmation or other delivery documentation. Make sure that everything is included and nothing is damaged.
- Contact Munters immediately if the delivery is not complete or damaged in order to avoid installation delays.
- Remove all packaging material from the unit, and make sure that no damage has been made during transportation.
- Any visible damage must be reported in writing to Munters within 3 days and prior to installation of the unit.
- Discard the packaging material according to local regulations.

### 3.3 Storing the equipment



#### **CAUTION!**

*Always unplug the unit from the power supply when not in use.*

Follow these instructions if the dehumidifier is to be stored prior to installation:

- Place the dehumidifier in an upright position on a horizontal surface.
- Re-use the packaging material to provide protection for the unit.
- Protect the dehumidifier from physical damage.
- Store the dehumidifier under cover and protect it from dust, frost, rain and aggressive contaminants.



## 4 Installation

### 4.1 Safety



#### **WARNING!**

- The unit must not be splashed with or immersed in water.
- All electrical installations must be carried out by a qualified electrician and in accordance with local regulations.
- The unit must be connected to an earthed electrical outlet.
- The unit must never be connected to another voltage or frequency than what is specified on the identification plate. Too high line voltage can cause electrical shock hazards and damage to the unit.
- Do not operate the unit if the power plug or cord is damaged, risk of electrical shock.
- Do not pull the plug with wet hands, risk of electrical shock.
- Do not insert fingers or any objects into the air vents, rotating fans are inside.
- Do not cover the unit as that can block air intake or outlet and cause a fire.
- If the unit has overturned, cut the power immediately.
- Always contact Munters for service or repair.



#### **CAUTION!**

Do not sit, stand, or place any objects on the unit.

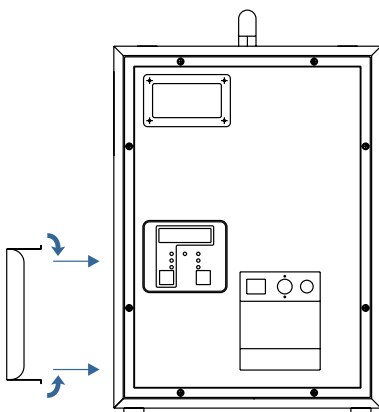


#### **CAUTION!**

If there is a risk for freezing temperatures, the wet air ducting must be insulated.

### 4.2 Fitting the silencer

Attach the silencer to the process air inlet, see *Figure 4.1*.



*Figure 4.1 Fitting the silencer*

## 4.3 Site requirements

The dehumidifier is only intended for indoor installation. It must be placed in an upright position on a level surface.

Avoid installing the dehumidifier where there is a risk of water entering the unit, or in a very dusty environment. Refer to Munters for advice if in doubt.

For unit and service dimensions, see section 11, *Technical specification*.

**NOTE!** *It is important that the intended installation site meets the requirements in order to achieve the best possible performance and trouble-free operation.*

## 4.4 Connection of ducts and hoses

### 4.4.1 General

Follow the instructions below when attaching ducts or flexible hoses to the unit's air connections.

- Duct length should be kept as short as possible to minimise static pressure loss.
- All duct and hose connections must be air tight and vapor tight to ensure full performance.
- To retain the correct airflow for reactivation air, an air damper must be installed. For adjustment of airflow, follow the instructions in section 5.5, *Adjusting the reactivation temperature*.
- Ducting for wet air must be installed with a downward incline to enable condensate to drain. The wet air ducting should be provided with suitable drainage at low points to prevent the collection of condensation water. Alternatively, condensation can be avoided by insulating the duct with at least 25 mm of suitable insulating material.
- Cover the duct opening with mesh to prevent birds and rodents from entering the unit. Position the opening so that rain and snow cannot enter the lines.
- The wet air duct or hose must be corrosion resistant and able to withstand temperatures up to 70 °C.



#### **CAUTION!**

*In case of outdoor reactivation air as in Figure 4.3, the distance between the inlet and the wet air outlet must be at least 1 m.*



#### **CAUTION!**

*If there is risk for freezing temperatures, the wet air ducting must be insulated.*

### 4.4.2 Closed airflow system

The dehumidifier is placed in the space to be dehumidified. The wet air is transported outdoors with ducting. The performance can be improved with an optional dry air duct and damper.

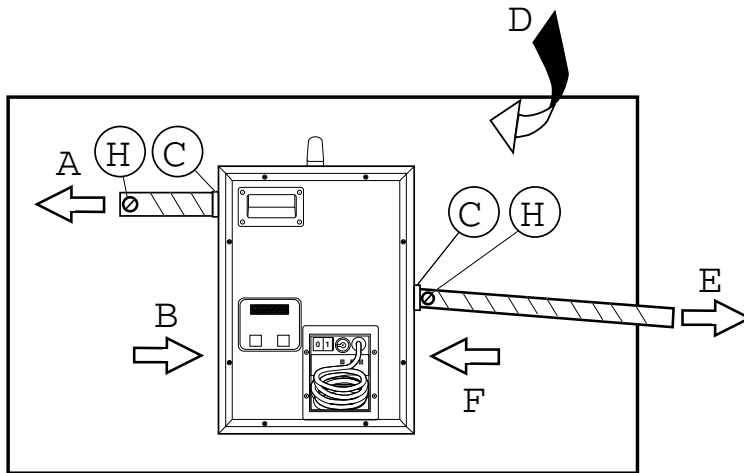


Figure 4.2 Closed airflow system.

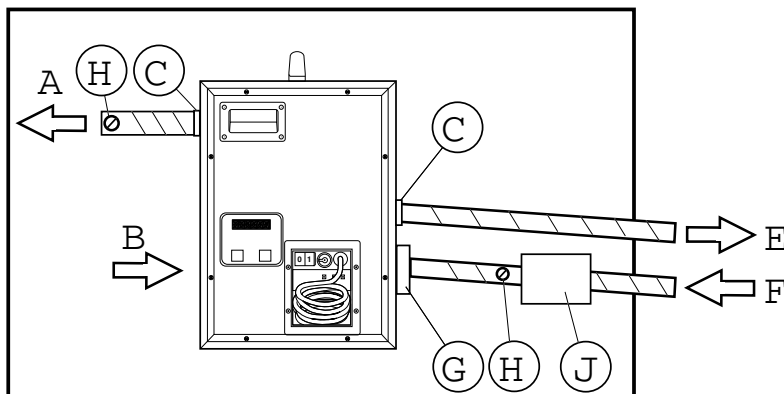


Figure 4.3 Outdoor reactivation air.

- |                                     |                     |                                      |
|-------------------------------------|---------------------|--------------------------------------|
| A. Dry air                          | D. Leakage air      | G. Adapter <sup>2)</sup>             |
| B. Process air                      | E. Wet air          | H. Damper <sup>3)</sup>              |
| C. Connection fitting <sup>1)</sup> | F. Reactivation air | J. External filter box <sup>4)</sup> |

1) Fitting with diameter 80 or 125 mm, for example, Lindab Safe NPU nipple.  
 2) Use 170-011229-001 with original filter, and 170-011228-001 with external filter box.  
 3) For example Lindab Damper DSU 80 or 125 mm.  
 4) For example Östberg FLK 125.

### 4.4.3 Open airflow system

The dehumidifier is placed outside the area to be dehumidified. Dry air is transported with ducting to the space to be dehumidified and the wet air is discharged in the vicinity of the unit or moved outdoors.

The installation is used to solve the following problems:

- When moisture damaged objects are to be dehumidified.
- Dust or corrosion causing particles are present in a space where dry air will be supplied.
- To prevent moisture from entering the dehumidified space/ object.

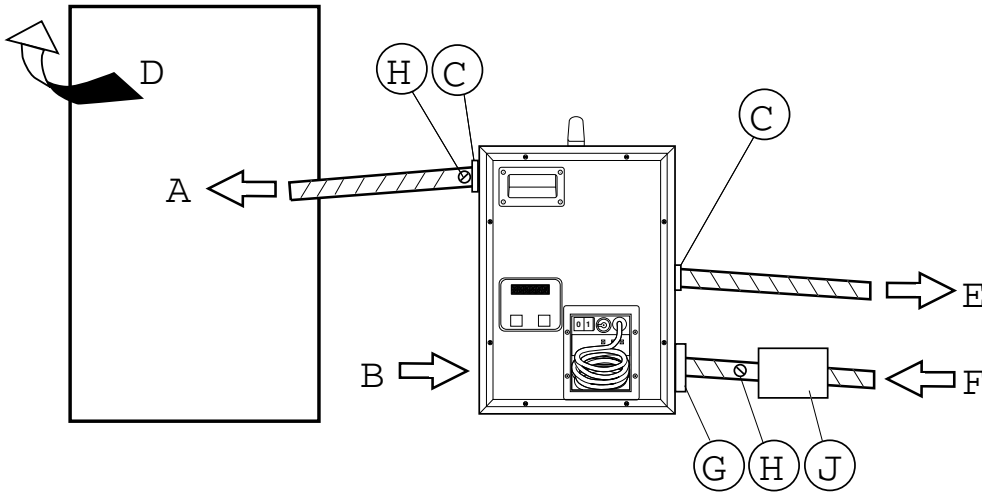


Figure 4.4 Open airflow system

- |                                     |                     |                                      |
|-------------------------------------|---------------------|--------------------------------------|
| A. Dry air                          | D. Leakage air      | G. Adapter <sup>2)</sup>             |
| B. Process air                      | E. Wet air          | H. Damper <sup>3)</sup>              |
| C. Connection fitting <sup>1)</sup> | F. Reactivation air | J. External filter box <sup>4)</sup> |

<sup>1)</sup> Fitting with diameter 80 or 125 mm, for example, Lindab Safe NPU nipple.

<sup>2)</sup> Use 170-011229-001 with original filter, and 170-011228-001 with external filter box.

<sup>3)</sup> For example Lindab Damper DSU 80 or 125 mm.

<sup>4)</sup> For example Östberg FLK 125.

## 4.5 Electrical connections

Included with the delivery is a 3.5 m long power cable with a plug for connection to an earthed outlet.



### **WARNING!**

*The unit must be connected to an earthed electrical outlet.*



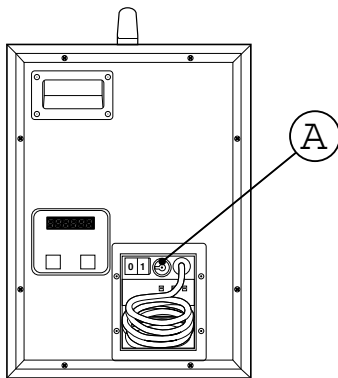
### **WARNING!**

*The unit must never be connected to another voltage or frequency than what is specified on the identification plate. Too high line voltage can cause electrical shock hazards and damage to the unit.*

## 4.6 Connecting the humidistat

### 4.6.1 Installation

The connection socket for the humidistat is located in the storage compartment for the power cable, see *Figure 4.5*. The appropriate plug for the humidistat is delivered with the unit, see section 4.6.2, *Humidistat connection kit*.



*Figure 4.5 Connection socket for humidistat (A)*

- The humidistat must be of single stage type and must be designed so that the contacts close on a rising RH to complete the control circuit and start the dehumidifier.
- The humidistat connecting cable should have a conductor area of not less than 0,75 mm<sup>2</sup> and must have an insulation resistance rating in excess of 500 VAC.
- Voltage drops can occur when using excessively long cables.

When placed on a wall, the humidistat should be mounted 1–1.5 m above the floor. It should be positioned so that it is not directly exposed to dry air from the unit, or to moist air flowing in through doors that are opened. It must not be placed close to a heat source or be exposed to direct sunlight.

### 4.6.2 Humidistat connection kit

Follow the instructions below to assemble and connect the humidistat connection kit.

1. Connect the leads to pins 1 and 2, and the screen to the earth pin.

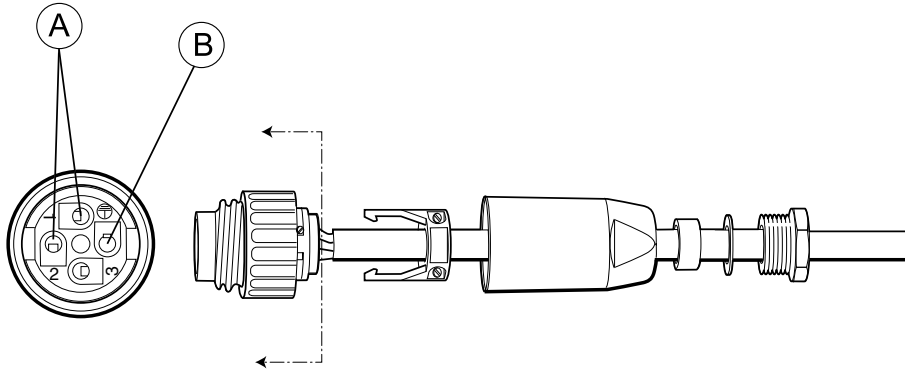


Figure 4.6 Connection of leads

A. Lead connections

B. Screen connections

2. Affix the terminal (2) to the plug (1).
3. Tighten the terminal screws (3).
4. Affix the cover (4) to the plug (1).
5. Affix the flange (5) to the cover (4).

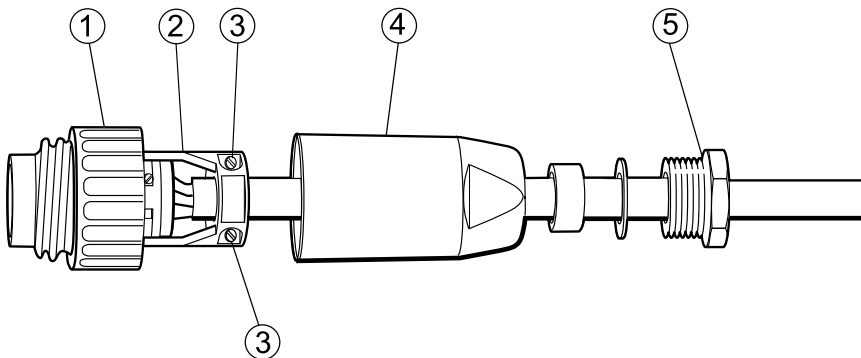


Figure 4.7 Humidistat connection kit assembly

## 5 Operation

### 5.1 General



#### **WARNING!**

Pull the power cable out from the cable compartment before operating the dehumidifier to avoid overheating.

The dehumidifier has three operating modes, see *Figure 5.1*.

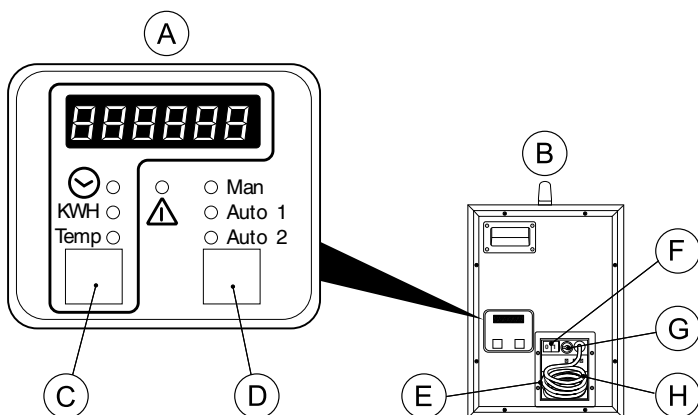
**Man:** The dehumidifier's fans, rotor and reactivation heater operate continuously.

**Auto1:** The dehumidifier's fans, rotor and reactivation heater are started/stopped by the humidistat.

**Auto 2:** The dehumidifier's fans and rotor operate continuously. The reactivation heater is started and stopped by the humidistat only. This mode of operation is used to maintain air circulation. If relative humidity rises to the humidistat's setpoint, the reactivation heater starts. The reactivation heater stops when relative humidity drops below the setpoint.

**NOTE!** For the dehumidifier to function in Auto 1 and 2, a single stage humidistat must be connected to the unit. See section 4.6, *Connecting the humidistat*.

**NOTE!** In humidistat operation mode, there is a built-in function that delays re-start of the dehumidifier for 2 minutes. See section 5.3.3, *Automatic operation*.



*Figure 5.1 Control panel, on-off switch and humidistat socket*

- |                         |                            |                      |
|-------------------------|----------------------------|----------------------|
| A. Control panel        | D. Operating mode selector | G. Humidistat socket |
| B. Dehumidifier         | E. Cable compartment       | H. Power cable       |
| C. Measurement selector | F. On-off switch           |                      |

### 5.2 Quick stop

Stop the unit with the on-off switch at the front of the unit, or pull out the plug from the wall outlet.

## 5.3 Start

### 5.3.1 Measured values



Figure 5.2 Control panel

The following parameter information is displayed on the control panel:



Total operating time



Power consumption during a specific period



Reactivation temperature

Change the parameter display by pressing the measurement selector button on the control panel.

Measurement of power consumption can be reset **before** each dehumidifying occasion or period of use.

To reset the measurement:

1. Switch off the unit
2. Press both the Measurement and Operating Mode Selectors at the same time and then switch the unit **On** (position I) while still pressing the selectors. Keep the selectors pressed for at least 5 seconds to reset the consumption.

### 5.3.2 Manual operation

1. Reset measurement of power consumption as required, see section 5.3.1, *Measured values*.
2. Switch the on-off switch to position I, see *Figure 5.1*.
3. Select the **Man** operating mode by pressing the operating mode selector button.

### 5.3.3 Automatic operation

For the dehumidifier to operate in **Auto 1** or **2**, the humidistat must be connected to the humidistat socket of the unit, see section 4.6, *Connecting the humidistat*.

1. Reset measurement of power consumption as required, see section 5.3.1, *Measured values*.



2. Adjust the humidistat to the desired setpoint.
3. Switch the on-off switch to position I, see *Figure 5.1*.
4. Select the **Auto 1** or **2** operating mode by pressing the operating mode selector button, see *Figure 5.1*.

**NOTE!** Connection of the humidistat activates a built-in 2 minutes delay function for re-start. The opening and closing of the humidistat circuit within the 2 minutes period will not start the dehumidifier again because of the delay function. In case the humidistat circuit has been opened for more than 2 minutes and then closes, the dehumidifier will start immediately. The purpose with this function is to prevent the circuit from continuously cycling on and off, in case the humidistat is installed in a poorly chosen location.

## 5.4 Stop

Switch the on-off switch to position **0**, see *Figure 5.1*.

## 5.5 Adjusting the reactivation temperature

If a damper is installed on the wet air side, the dehumidifier's reactivation temperature is adjusted as follows:

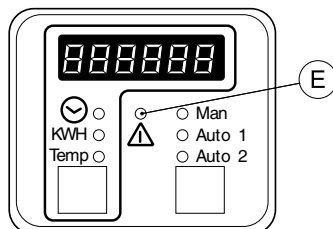
1. While the unit is operating, press the measurement selector so the reactivation temperature is shown on the display, see *Figure 5.2*.
2. Adjust the damper and check the reactivation temperature. When the damper is properly adjusted, the difference between the reactivation temperature and the ambient temperature should be about 95 °C.

**NOTE!** At start-up, the display shows LO °C for reactivation temperatures below 65 °C.

## 5.6 Fault indication

Excessively high reactivation temperatures are indicated on the control panel, see *Figure 5.3* and *Table 7.1*.

- Fixed light, the dehumidifier is still running.
- Blinking light, the dehumidifier has stopped.



*Figure 5.3* Fault indication

E. Indication for temperature control and tripped thermostat

## 6 Service and maintenance

### 6.1 General



**WARNING!**

- Do not attempt to repair, dismantle or modify this unit.
- Remove the mains plug from the socket before starting any maintenance work.

The dehumidifier is designed for continuous use over a long period of time with a minimal amount of supervision. Under normal operating conditions, maintenance requirements are minimal. The service interval depends mainly on the operational conditions and working environment.

**NOTE!** It is recommended to contact Munters for service or repair. Operating faults can occur if the unit is maintained insufficiently or incorrectly.

Munters Service can offer a service plan adapted to suit the conditions of a specific installation. See contact addresses on the back page of this manual.

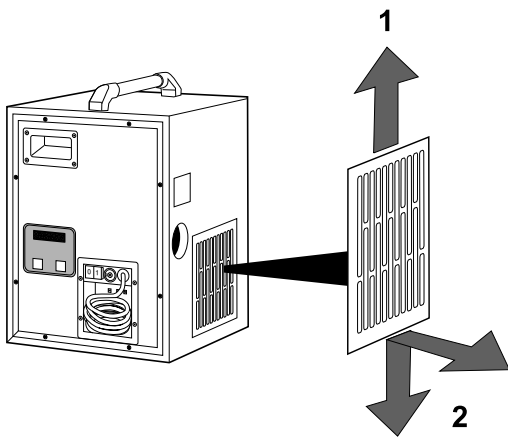
### 6.2 Maintenance schedule

Munters recommends the following maintenance schedule. The schedule contains inspection and maintenance procedures as well as the recommended intervals for units used under normal operating and environmental conditions. If the process air contains a lot of dust, preventative maintenance should be performed at shorter intervals than those specified below.

Component	Inspection / Maintenance	
	3-6 months	12 months
Process and Reactivation filter .	Clean the filter housing and change filter (EU3) as required.	Clean filter housing and change filter (EU3).
Unit, general	Check for physical damage and clean unit exterior if necessary.	Check for physical damage and clean unit exterior if necessary.
Humidistat.	N/A	Check sensor functions and calibrate if necessary. Contact your Munters' product service department as required

Table 6.1 Maintenance schedule

## 6.3 Filter replacement



*Figure 6.1 Filter removal*

1. To remove the filter, slide the filter grating upwards, then downwards and out according to *Figure 6.1*.
2. Clean filter housing and grating before fitting the new filter.

## 7 Fault tracing

### 7.1 General

This chapter is intended to facilitate basic fault tracing and provide instructions on actions to remedy problems.

### 7.2 Safety



**WARNING!**

*Always unplug the dehumidifier before any maintenance or repair work is carried out. In case of a fixed installation where the plug is being replaced by a circuit breaker, the power must be switched off and the circuit breaker locked.*



**WARNING!**

*The unit must not be connected to other mains than specified on the units identification plate.*



**WARNING!**

*Adjustments, maintenance and repairs must only be carried out by trained and qualified personnel.*



**WARNING!**

*Due to the risk of electrical shock, the unit must not be opened by anyone other than trained and qualified personnel.*

### 7.3 Fault tracing list

Go through the following fault tracing list below before contacting Munters' product service department. The list provides help in identifying types of faults that are easy to remedy without the assistance of specially trained personnel

Fault symptom	Possible Cause	Corrective action
Unit has stopped.	On-off switch turned off by mistake.	Place the on-off switch in the on position and check that dehumidifier starts.
	No mains power to unit.	Check mains power to unit.
	Dehumidifier switched to automatic mode by mistake with no humidistat connected.	Set the operating mode to manual mode and check that the dehumidifier starts.
	Humidistat fault (automatic modes).	
Check the humidistat by seeing if the dehumidifier starts when the humidistat setpoint is reduced. Reset the humidistat setpoint after the check. Calibrate the humidistat if necessary.		
Dehumidifier has stopped and fault indication is blinking.	Thermostat for reactivation heater has tripped.	Contact Munters' product service department.
Dehumidifier is running and constant fault indication.	Warning for abnormal reactive temperature increase.	Check that filters and ducting for incoming air are not blocked by foreign objects or plugged by dirt. Increase reactivation air flow by slowly opening the damper.
Dehumidification capacity has diminished.	Airflows are faulty.	Check ducting and filters for blockage and leakage.
	Humidistat not functioning properly (automatic modes)	Check humidistat function and calibrate as required. Contact Munters product service department.

Table 7.1 Fault tracing list

## 8 Capacity diagrams

Approximate capacity in kg/h. For detailed information, please contact your nearest Munters office or refer to Munters' DryCap program.

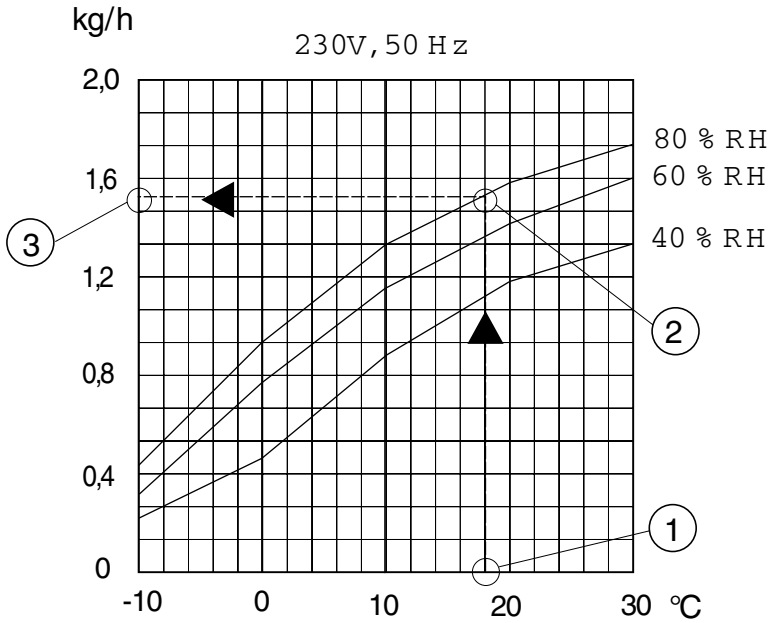


Figure 8.1

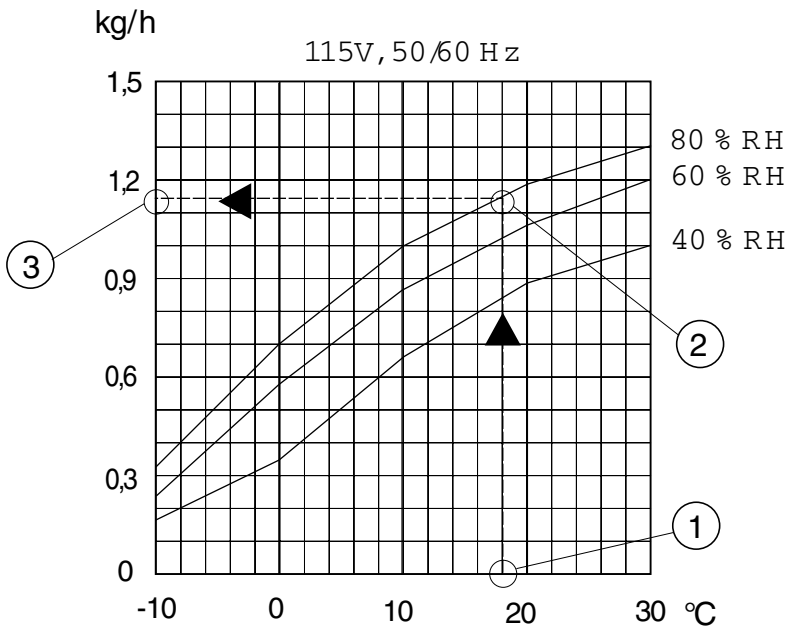


Figure 8.2

1. Process air temperature, °C

2. Process air relative humidity, %RH

3. Dehumidification capacity, kg/h  
(moisture removal kg/hour)

## 9 Fan diagrams

115/230V, 50 Hz

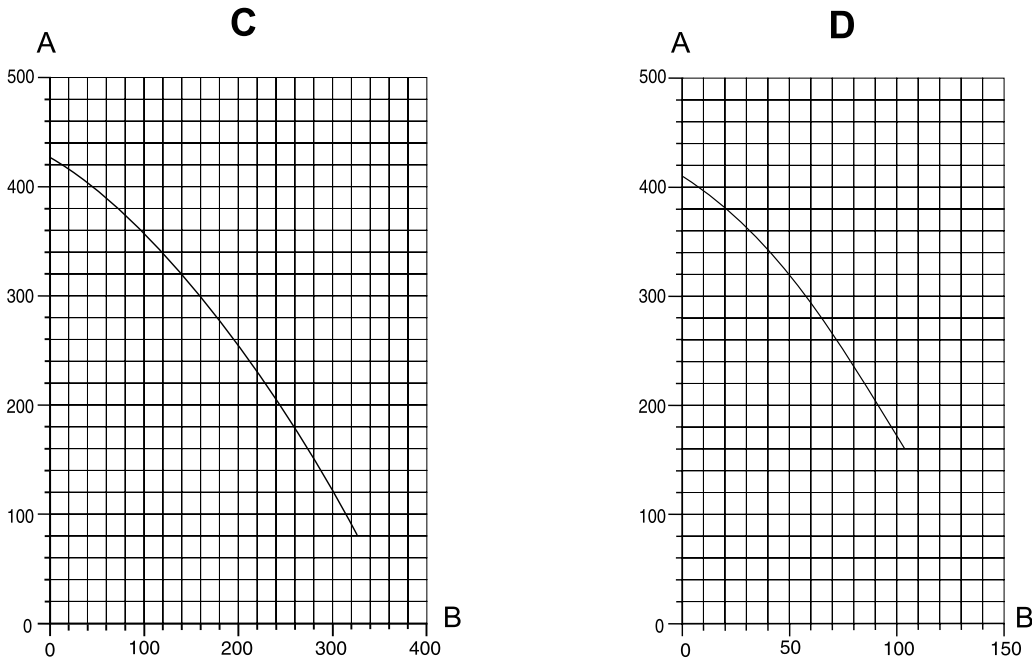


Figure 9.1 Fan diagrams (115/230V, 50 Hz)

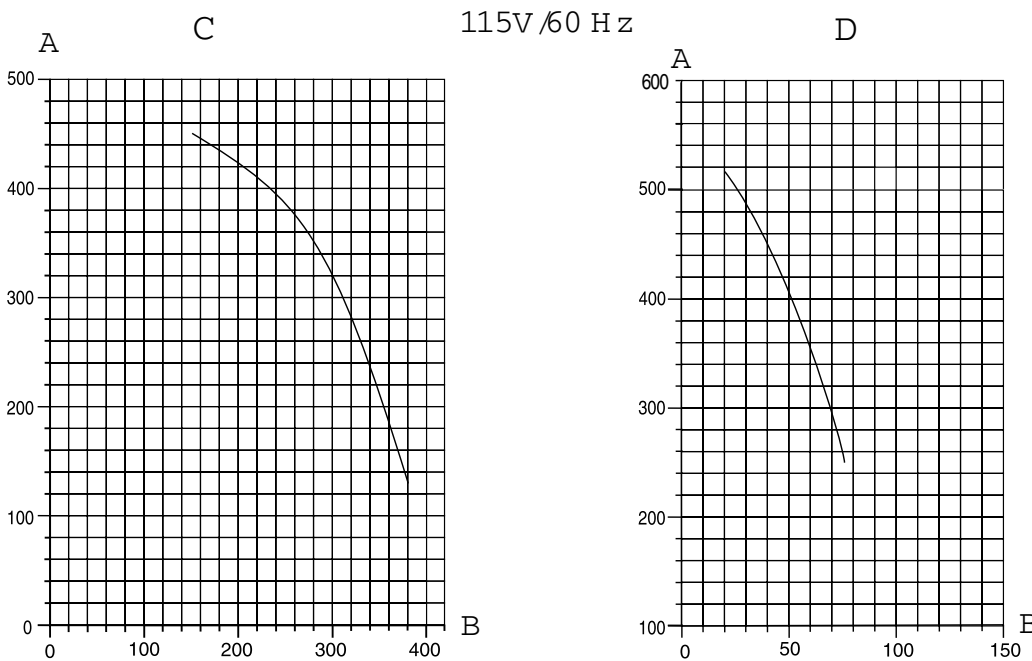


Figure 9.2 Fan diagrams (115V, 60 Hz)

A. Static pressure (Pa)

B. Airflow m<sup>3</sup>/h

C. Process air

D. Reactivation air

## 10 Sound data

See *Figure 4.2* for closed airflow system example.

Noise Path	Model MCS	dB(A)	L <sub>wt</sub> dB	Correction of Kok at ISO-band No./Center Frequency (Hz)							
				1/63	2/125	3/250	4/500	5/1000	6/2000	7/4000	8/8000
A	300	69,3	79	-23,8	-11,7	-9,9	-10,5	-17,5	-19,3	-22,3	-25,6
A <sub>1</sub>	300	68	78,3	-21,5	-10,7	-9,6	-10,5	-19,1	-21	-25	-30,5

Table 10.1 Sound data (115/230V, 50 Hz)

### Symbols

L<sub>wt</sub>: Total Noise level dB (Rel. 10-12 W)

L<sub>w</sub>: Noise Power level in Octave Band dB (Rel. 10-12 W)

K<sub>ok</sub>: Correction for Calculation of L<sub>w</sub> (L<sub>w</sub> = L<sub>wt</sub> + K<sub>ok</sub>)

### Noise Path

A: Process air inlet open and wet air outlet ducted

A<sub>1</sub>: Ditto but including silencer



## 11 Technical specification

Technical data MCS300	230V/50 Hz	115V/50 Hz	115V/60 Hz
<b>Process air<sup>(1)</sup></b>			
System airflow (m <sup>3</sup> /h)	330	330	330
Nominal airflow with ducting (m <sup>3</sup> /h)	300	300	300
Minimum available static pressure (Pa)	200	200	200
<b>Reactivation air<sup>(1)</sup></b>			
Nominal airflow with ducting (m <sup>3</sup> /h)	60	47	60
Minimum available static pressure (Pa)	200	200	250
<b>Fan motor</b>			
Motor, power (kW)	0,15	0,15	0,15
Motor, current (A, 1 ~)	1,05	2,1	2,1
<b>Drive motor</b>			
Motor, power (kW)	0,002	0,002	0,002
Motor, current (A, 1 ~)	-	-	.-
<b>Reactivation heater</b>			
Reactivation heater, power (kW)	2,0	1,5	1,5
Temperature increase (°C)	95	73	73
<b>Electrical power and nominal current (kW)</b>			
Maximum electrical power (kW)	2,2	1,7	1,7
<b>Filter</b>			
Filter kit G3 (Article No.)	130025/1 KIT	130025/1 KIT	130025/1 KIT
<b>Temperature range</b>			
Permitted ambient operating temperature	-20 to +40 °C	-20 to +40 °C	-20 to +40 °C
<b>Other data</b>			
IEC protection class	IP44	IP44	IP44
Fan motor winding insulation class	F	F	F
Maximum sound level without ducting (dBA)	Max. 60,0	Max. 60,0	Max. 60,0
Total unit weight (kg)	25	25	25
Rotor type	HPS	HPS	HPS
<b>Dimensions</b>			
Depth (mm)	400	400	400
Width (mm)	400	400	400
Height (mm)	550	550	550
<sup>1)</sup> The specified figures are nominal values based on inlet temperatures at the fans of 20 °C and an air density of 1,2 kg/m <sup>3</sup> .			

Table 11.1 Technical specification

## 12 Scrapping and disposal

The unit must be scrapped in accordance with applicable legal requirements and regulations. Contact your local authorities.

If the rotor or filters have been exposed to chemicals that are dangerous to the environment the risk must be assessed. The chemicals can accumulate in the material. Take the necessary precautions to comply with applicable local legal requirements and regulations.

The rotor material is not combustible, and should be deposited like glass fibre materials.



### **WARNING!**

*If the rotor is to be cut in pieces, wear a suitable CE marked face mask selected and fitted in accordance with the applicable safety standards to protect from the dust.*

## 13 Contact Munters

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