ComDry M160L Dehumidifier
User manual from serial no. 20001
Read these instructions before using the dehumidifier.
# Table of Contents

1. Important user information .................................................................................................. 4  
   1.1. Intended use .................................................................................................................. 4  
   1.2. Warranty ..................................................................................................................... 4  
   1.3. Safety information ....................................................................................................... 4  
   1.4. Conformity with Directives ........................................................................................ 4  
   1.5. Copyright ................................................................................................................... 5  

2. Introduction ......................................................................................................................... 6  
   2.1. About this manual ....................................................................................................... 6  
   2.2. Unintended use .......................................................................................................... 6  
   2.3. Safety ........................................................................................................................ 6  
   2.4. Marking ...................................................................................................................... 7  

3. Function overview ............................................................................................................... 8  
   3.1. Intended use .............................................................................................................. 4  
   3.2. Safety ........................................................................................................................ 6  
   3.3. Marking ...................................................................................................................... 7  

4. Transport, delivery inspection and storage ........................................................................... 9  
   4.1. Transport ................................................................................................................... 9  
   4.2. Delivery inspection ..................................................................................................... 9  
   4.3. Storage ...................................................................................................................... 10  

5. Installation .......................................................................................................................... 11  
   5.1. Safety ........................................................................................................................ 11  
   5.2. Closed system ......................................................................................................... 11  
   5.3. Open system .......................................................................................................... 12  
   5.4. Site requirements ..................................................................................................... 13  
   5.5. Installation of the unit .............................................................................................. 13  
   5.6. Ducts and hoses ...................................................................................................... 14  
   5.7. Connecting the drain hose .................................................................................... 14  
   5.8. Electrical connections ............................................................................................ 15  
   5.9. Expanding the system ............................................................................................. 15  
   5.10. Accessories ............................................................................................................ 16  

6. Operation ........................................................................................................................... 18  
   6.1. Safety ...................................................................................................................... 18  
   6.2. Quick stop ................................................................................................................. 18  
   6.3. Humidity control ..................................................................................................... 19  
   6.4. Process fan modes .................................................................................................. 19  
   6.5. Control panel overview ......................................................................................... 20  
   6.6. Start the dehumidifier ......................................................................................... 20  
   6.7. Stop the dehumidifier ............................................................................................ 21  
   6.8. Automatic start after power failure ..................................................................... 21  

7. Maintenance ....................................................................................................................... 22  
   7.1. General .................................................................................................................... 22  
   7.2. Maintenance schedule ......................................................................................... 22  
   7.3. Filter change ......................................................................................................... 23  

8. Fault tracing ......................................................................................................................... 24  

9. Technical specification ....................................................................................................... 25  
   9.1. Dimensions and service space ............................................................................... 25  
   9.2. Capacity diagram .................................................................................................... 26  
   9.3. Fan curve ................................................................................................................ 27  
   9.4. Technical data .......................................................................................................... 28  

10. Disposal ............................................................................................................................ 29  

11. Contact Munters ............................................................................................................... 30
1. Important user information

1.1. 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. Installation of additional devices is only allowed after written agreement by Munters.

1.2. 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 serial number. This information is stamped on the identification label.

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.

1.3. Safety information
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.

1.4. Conformity with Directives
The dehumidifier is in conformity with the essential safety requirements of the Machinery Directive 2006/42/EC, the RoHS Directive 2011/65/EU and the EMC Directive 2014/30/EU.

The dehumidifier is manufactured by an organization certified according to ISO 9001 and ISO 14001.
1.5. 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, P.O. Box 1150, SE-16426 KISTA Sweden
2. Introduction

2.1. About this manual
This manual is written for the user of the dehumidifier. It contains necessary information for how to in-
stall 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 about the installation or the use of your
dehumidifier.

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

2.2. Unintended use

• The dehumidifier is not intended for outdoor installation.
• The dehumidifier is not intended for use in classified areas where explosion safety compliant equip-
ment 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.

![Note icon]

**NOTE**
When a dehumidifier is placed in a building with radon it is necessary to contact an ex-
pert to secure the best overall solution. All changes affecting the ventilation or the pres-
sure balance in the building can result in a changed concentration of radon.

2.3. Safety
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 consid-
er:

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

• The unit must not be splashed with or immersed in water.
• All electrical installations must be done by an authorized electrician in accordance with local regulations. An incorrect installation can cause electrical shock hazards and damage to the unit.
• 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.
• The unit can restart automatically without warning following a power cut.
• Do not operate the unit if the power cable or plug 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.
• Disconnect the mains plug from the socket before starting any maintenance work.
• 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.

2.4. Marking
The identification label is placed on the bottom side of the dehumidifier.
3. 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 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).

The wet air re-circulates through a condenser that cools the air to condense the water using a part of the process air.

The condensed water is drained through a hose.

This principle enables the dehumidifier to work effectively, even at low temperatures from 0 °C.

---

**Airflows**

1. Process/Reactivation air
2. Dry air
3. Cooling air out

---

![Diagram of the ComDry M160L Dehumidifier with labeled airflow paths](image-url)
4. Transport, delivery inspection and storage

4.1. Transport
Before moving the dehumidifier, make sure there is no water left in the drain by pulling the drain plug out.

CAUTION
Remove the drain pipe from the tray to avoid damage, see section Installation [1].

Transport the dehumidifier by carrying it by its handle or in the original packaging.

The unit must always be placed in an upright position during transport. Failure to comply with this can cause the unit to malfunction.

The power cable should be rolled up and placed under the handle or under the rubber strap on the front.

4.2. Delivery inspection

• 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.
• Any damage to the packaging must be documented with photos before the packaging is removed.
• Remove all packaging material from the unit, and make sure that no damage has been made during transportation.
• Any damage to the unit must be documented with photos.
• 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.
4.3. Storage

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, rain and aggressive contaminants.
5. Installation

5.1. Safety

**WARNING**
All electrical installations must be done by an authorized electrician in accordance with local regulations. An incorrect installation can cause electrical shock hazards and damage to the unit.

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.

The unit must be connected to an earthed electrical outlet.

Do not operate the unit if the power cable or plug is damaged, risk of electrical shock.

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

**NOTE**
When a dehumidifier is placed in a building with radon it is necessary to contact an expert to secure the best overall solution. All changes affecting the ventilation or the pressure balance in the building can result in a changed concentration of radon.

5.2. Closed system
A closed system is preferable when there is a need for dehumidification to a very dry climate. It is more economical to run compared to an open system.

The dehumidifier is placed in the space to be dehumidified.

To ensure that the dry air is distributed evenly in the space to be dehumidified a ducting can be connected to the dry air outlet of the dehumidifier.

The condensed water is drained through a hose.
1. Process / Reactivation air
2. Dry air
3. Condensed water

5.3. Open system
The dehumidifier is placed outside the space to be dehumidified.

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.

Dry air is transported with ducting to the space to be dehumidified.

The condensed water is drained through a hose.
5.4. Site requirements
The dehumidifier is only intended for indoor installation.

Avoid installing the dehumidifier in a damp environment where there is a risk of water entering the unit or in a very dusty environment. If in doubt, contact Munters.

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

For space requirements, see section Dimensions and service space.

If the dehumidifier is to be placed on the wall we recommend the specially designed wall bracket.

Always leave minimum 10 cm space between the unit and the wall.

5.5. Installation of the unit
ComDry M160L is designed to be mounted on a wall using the wall bracket included in the delivery of the unit. See the separate wall bracket leaflet.

1. Assemble the three main parts of the wall bracket. Use the four screws included.
2. Mark four wall holes using the enclosed drill pattern. Make sure to get at least 25 cm space between the dehumidifier and the floor.
3. Use four screws with a maximum diameter of 7 mm (not included) to mount the bracket on the wall.
4. Screw the wall bracket on to the wall.
5. Lay the dehumidifier down.
6. Insert the O-ring (1) in to the drain pipe sleeve (2). Press the O-ring so it is properly seated in the groove.
7. Push the drain pipe on to the drain connection of the tray.
8. Fasten the drain pipe with the two enclosed screws.
9. There are two slots in the shelf enabling a lashing strap to be mounted if the dehumidifier is to be fixed by a strap.
10. Alternatively the four feet can be locked simply by changing the screw in each foot to a longer (not included) and use the four pre-drilled holes in the bracket. Four new washers will also be needed.
11. Finally put the hose on to the drain pipe and lock the hose using a hose clamp.

5.6. Ducts and hoses
When installing ductwork between the dehumidifier and the inlet and outlet connections, the following recommendations should be observed:

- Duct length must be kept as short as possible to minimize static pressure loss.
- All duct and hose connections must be air tight and vapour tight to ensure full performance.
- The total resistance in the ductwork must not exceed the performance rating of the dehumidifier fans.

NOTE
Maximum length of dry air hose is 25 m.

5.7. Connecting the drain hose
Before connecting the drain hose the dehumidifier must be mounted on the wall using the enclosed wall bracket. The minimum distance between the bottom of the dehumidifier and the floor is 25 cm.
5.8. Electrical connections
The dehumidifier is delivered with a 2.7 m long power cable, with a plug for connection to an earthed outlet.

**WARNING**
All electrical installations must be done by an authorized electrician in accordance with local regulations. An incorrect installation can cause electrical shock hazards and damage to the unit.

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.

The unit must be connected to an earthed electrical outlet.

Do not operate the unit if the power cable or plug is damaged, risk of electrical shock.

**CAUTION**
In case of a fixed installation where the plug is replaced by a circuit breaker, make sure that the fuse rating in the circuit breaker is correct.

The mains frequency can be adjusted, see the control system supplement.

5.9. Expanding the system

**CAUTION**
Never connect ComDry directly to a standard Ethernet network, even if the connector type is the same (RJ45-8, modular connector). Doing so can damage both the ComDry control system and/or the computer network.

All ComDry dehumidifiers are equipped with two CAN bus ports, located behind a cover next to the power inlet. An indoor remote control, external humidity/temperature sensors or an external signal box can be connected to these CAN bus ports.

Any of the above devices can be connected to either port. When no port is used the two empty termination plugs must be fitted to the ports.
Remove the cover. CAN bus ports with empty termination plugs.

5.10. Accessories

Wall bracket

The wall bracket is included in the delivery as the unit must be mounted on a wall.

Stub pipe kit

Used when there is a need to connect an inlet duct or hose to the dehumidifier.
Remote control

Makes it possible to control the unit from a distance, delivered with a 10 m cable.

External signal box

Used when there is a need to connect to an external control system.

Remote RH/T sensor

For external measuring of humidity and temperature.

Munters Connected Climate

Data logging and control
6. Operation

6.1. Safety

**WARNING**

The unit must not be splashed with or immersed in water.

The unit can restart automatically without warning following a power cut.

Do not operate the unit if the power cable or plug 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.

**CAUTION**

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

6.2. Quick stop

**CAUTION**

Only quick stop the dehumidifier in case of an emergency. The fan stops and the heater can be very hot, which can result in damage to the heater and other components close to it.

In case of emergency, stop the dehumidifier by pulling the mains plug or, if it is permanently connected to mains, by using the external circuit breaker.
6.3. Humidity control
The ComDry dehumidifier is equipped with a sophisticated microprocessor based control system. This, in combination with the built-in humidity/temperature sensor in the process air inlet, makes it possible to set both the control and presentation of the humidity to either relative humidity (RH%), dew point (Dp °C) or absolute humidity (X gr/kg).

The control system additionally checks the temperatures before and after the heater, as well as in the wet air after the rotor.

A high safety level is obtained by various temperature sensors. Too high temperatures gives a reduction of the heater power, while excessive temperatures will make the system issue an alarm and shut the dehumidifier down in a controlled way. For further explanation, see the ComDry Control System Supplement or Quick Guide.

NOTE
The dehumidifier always operates in automatic mode (moisture based operation). As default it will use the built-in humidity/temperature sensor, as option an external sensor.

6.4. Process fan modes
There are three process fan modes:

<table>
<thead>
<tr>
<th>Fan mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan ON</td>
<td>The dehumidifier will run the process fan continuously, regardless of if there is a dehumidification need or not. This is the default mode.</td>
</tr>
<tr>
<td>Fan INT</td>
<td>INTERmittent mode. The fan will stop when the desired humidity (Set Value minus Hysteresis) is reached. If the humidity reading stays below the Set Value, the process fan will anyhow start after 30 minutes to let the built-in sensor more accurately sense the condition of the incoming process air. The fan will run for a minute to produce a proper measurement. If the humidity is still below the Set Value, the fan will stop again. This is repeated until the humidity reaches the Set Value, which will make the dehumidification start again.</td>
</tr>
<tr>
<td>Fan DEM</td>
<td>DEMand mode. The fan will stop when the desired humidity (Set Value minus Hysteresis) is reached. It will start again when the sensed humidity is equal to, or greater than the Set Value. This gives in practice a control with greater hysteresis than “Fan INT”, depending on the following: When the dehumidifier has reached the desired humidity level, it will shift to stand-by and stop the process fan. After a while, internal machine heat will increase the temperature of the humidity sensor. This makes the sensor reading even lower, i.e. the system functions as if there was a “negative hysteresis”. As a result, a greater humidity load will be necessary to make the dehumidifier start compared with the “Fan INT” mode.</td>
</tr>
</tbody>
</table>
6.5. Control panel overview

![Control panel diagram]

- 1. Humidity menu
- 2. Time menu
- 3. Power menu
- 4. Temperature menu
- 5. Functions menu
- 6. Alarm menu

- A. Alarm indicator
- B. Operation indicator
- C. On/Off button

<table>
<thead>
<tr>
<th>Menu button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Up/Right button</td>
</tr>
<tr>
<td></td>
<td>Enter/Confirmation button</td>
</tr>
<tr>
<td></td>
<td>Down/Left button</td>
</tr>
</tbody>
</table>

**NOTE**
For more information about the control system and the operation of the dehumidifier, see the ComDry Control System Supplement or Quick Guide.

6.6. Start the dehumidifier

Connect the dehumidifier to mains.

The control system will initiate by flashing all LEDs for a few seconds, and the display first shows the ComDry machine type, then the set frequency, and finally the software version number and the current humidity level.

**NOTE**
The boot sequence takes about 10 seconds. Let the control system finish the booting before attempting to start the dehumidifier.
Press the On/Off button (C) once to start the dehumidifier.

If the measured humidity is lower than the Set Value, the green operating indicator (B) will start to flash in a long on/short off sequence. Depending on fan mode setting, the process fan will run or not. The unit is now in stand-by mode.

The dehumidifier starts to dehumidify when the measured humidity is equal to or greater than the Set Value, and the operating indicator (B) will shift to continuously lit.

6.7. Stop the dehumidifier

**CAUTION**
Only quick stop the dehumidifier in case of an emergency. The fan stops and the heater can be very hot, which can result in damage to the heater and other components close to it.

Press On/Off once to stop the dehumidifier.

The green operating indicator starts flashing with equally long and short on and off periods.

The unit continues to run for a while in order to cool down and then stops.

6.8. Automatic start after power failure

The dehumidifier will revert to operation after a power failure if it is set to ON, regardless of if it was running or in stand-by.
7. Maintenance

7.1. General

**WARNING**
Disconnect 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. 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 details at the back of this manual.

7.2. 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, preventive maintenance should be performed at shorter intervals than those specified below.

<table>
<thead>
<tr>
<th>Component</th>
<th>Inspection/maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4000 hours/6 months</td>
</tr>
<tr>
<td>Filter*</td>
<td>Clean the filter housing and replace the filter if necessary.</td>
</tr>
<tr>
<td>Unit casing</td>
<td>Inspect for physical damage and clean the outside of the unit as necessary.</td>
</tr>
<tr>
<td>Humidity sensor</td>
<td>No corrective action or test.</td>
</tr>
<tr>
<td>Functionality and performance test</td>
<td>No corrective action or test.</td>
</tr>
</tbody>
</table>
# 7.3. Filter change

## Process air

<table>
<thead>
<tr>
<th>Step</th>
<th>Instruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Push the filter frame down.</td>
</tr>
<tr>
<td>2.</td>
<td>Pull the filter frame out and remove it from the unit.</td>
</tr>
<tr>
<td>3.</td>
<td>Remove the old filter.</td>
</tr>
<tr>
<td>4.</td>
<td>Replace it with a new filter and install the frame.</td>
</tr>
</tbody>
</table>
## 8. Fault tracing

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Indication/Alarm message</th>
<th>Possible cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit has stopped</strong></td>
<td>No display text</td>
<td>Power supply fault.</td>
<td>Check power supply to the unit.</td>
</tr>
<tr>
<td></td>
<td>Green LED is flashing: long on, short off sequence</td>
<td>Blown fuse</td>
<td>Replace the fuse. For correct type and rating, see label above power supply connection to the unit.</td>
</tr>
<tr>
<td></td>
<td>Alarm message: [SENSOR FAILURE]</td>
<td>Broken sensor</td>
<td>Contact Munters.</td>
</tr>
<tr>
<td></td>
<td>Alarm message: [HEATER FAILURE] or [HIGH RT TEMP]</td>
<td>Over temperature protection fuse has tripped</td>
<td>Wait until the unit has stopped. Then disconnect the power supply. Check that the filters, hoses or ducts are not clogged.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blocked filter, hose or duct</td>
<td>To reset the over temperature protection fuse, the unit must be disconnected from the mains and allowed to cool down.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blocked impeller</td>
<td>If the alarm is reissued after the unit has cooled down and the alarm has been reset, contact Munters.</td>
</tr>
<tr>
<td></td>
<td>Alarm message: [HIGH Wi TEMP]</td>
<td>Set Value RH is too low in dry environment</td>
<td>Check if low Set Value RH is necessary. Adjust to higher value.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rotor drive mechanism fault</td>
<td>Check rotor drive belt and drive motor.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Check through the dry air outlet that the rotor rotates at approximately ten revolutions per hour. If rotor does not rotate, contact Munters.</td>
</tr>
<tr>
<td></td>
<td>Alarm message: [MAINS VOLTAGE LOW]</td>
<td>Unit is connected to the wrong voltage, or problem with the supply.</td>
<td>Check mains supply.</td>
</tr>
<tr>
<td></td>
<td>Alarm message: [LONG STOP TIME]</td>
<td>Broken fan. Heater is on</td>
<td>Contact Munters.</td>
</tr>
<tr>
<td><strong>Indication</strong></td>
<td>Alarm message: [TIME FOR SERVICE]</td>
<td>CAN be empty plugs or external connection missing.</td>
<td>See the ComDry Control system supplement.</td>
</tr>
<tr>
<td></td>
<td>Alarm message: [NO COM]</td>
<td></td>
<td>Reinstall plugs or connection cable. If alarm remains, contact Munters.</td>
</tr>
<tr>
<td><strong>Loss of performance</strong></td>
<td>The dehumidifier is running but is not controlling the humidity.</td>
<td>Low reactivation temperature</td>
<td>Check that the humidity Set Value is lower than the measured humidity.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Low reactivation airflow</td>
<td>Check the filter and any hoses or ducts for leakage or blockage. The use of a restricting flange in combination with wall pipes can cause too little reactivation air flow.</td>
</tr>
<tr>
<td><strong>Indication</strong></td>
<td>Alarm message: [DRAIN FAILURE]</td>
<td>Condensate drain hose clogged</td>
<td>Clean or replace the hose.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Make sure the hose is straight. Install the unit at least 25 cm above the floor level.</td>
</tr>
</tbody>
</table>
9. Technical specification

9.1. Dimensions and service space

Dimensions in mm

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>ØD</th>
<th>ØE</th>
<th>F</th>
<th>G</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>445</td>
<td>270</td>
<td>555</td>
<td>100</td>
<td>12.5</td>
<td>350</td>
<td>500</td>
<td>17 kg</td>
</tr>
</tbody>
</table>
9.2. Capacity diagram
The diagram shows approximate process air dehumidification capacity as a function of the process air temperature for three different air humidity conditions.

This may not, depending on conditions, correspond to actual drained water volume.

For detailed information, contact your nearest Munters office.

X-axis = Temperature, process air (°C)
Y-axis = Dehumidification capacity (kg/h)
9.3. Fan curve

Process air

Density 1,2 kg/m³

A. Static pressure (Pa)

B. Airflow (m³/hour)
# 9.4. Technical data

<table>
<thead>
<tr>
<th><strong>Process air</strong>&lt;sup&gt;(1)&lt;/sup&gt;</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Free-blowing air 50/60 Hz (m³/h)</td>
<td>160</td>
</tr>
<tr>
<td>Rated airflow at 40 Pa (m³/h)</td>
<td>150</td>
</tr>
<tr>
<td>Max. static pressure 50/60 Hz (Pa)</td>
<td>225</td>
</tr>
<tr>
<td>Fan motor power (kW)</td>
<td>0,09</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Reactivation air</strong>&lt;sup&gt;(1)&lt;/sup&gt;</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Heater power (kW)</td>
<td>0,84</td>
</tr>
<tr>
<td>Factory set reactivation temperature (Rt) limit (°C)</td>
<td>130</td>
</tr>
<tr>
<td>Temperature increase across heater (°C)</td>
<td>100</td>
</tr>
<tr>
<td>Fan motor power (kW)</td>
<td>0,08</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Other</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound pressure level, free blowing process fan (dBA)</td>
<td>58</td>
</tr>
<tr>
<td>IEC protection class (unit)</td>
<td>IP33</td>
</tr>
<tr>
<td>IEC protection class (electrical panel)</td>
<td>IP54</td>
</tr>
<tr>
<td>Fan motor winding insulation class</td>
<td>Class B</td>
</tr>
<tr>
<td>Drive motor winding insulation class</td>
<td>Class B</td>
</tr>
<tr>
<td>Rotor type</td>
<td>HPS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Environmental conditions</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature (°C)</td>
<td>0... +30</td>
</tr>
<tr>
<td>Maximum installation altitude, above sea level (m)</td>
<td>2000</td>
</tr>
<tr>
<td>Transport and storage temperature (°C)</td>
<td>-20... +70</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Total power, voltage and current</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage (V)</td>
<td>115</td>
</tr>
<tr>
<td>Frequency (Hz)</td>
<td>50/60</td>
</tr>
<tr>
<td>Total power (W)</td>
<td>1010</td>
</tr>
<tr>
<td>Current (A)</td>
<td>8,8</td>
</tr>
<tr>
<td>Fuse</td>
<td>3 AG, 250 VAC, 10 A Slow</td>
</tr>
</tbody>
</table>

<sup>(1)</sup> The specified performance is based on 20 °C and air density of 1.2 kg/m³.
10. Disposal

The unit and consumables must be disposed of 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 fiberglass 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.
# 11. Contact Munters

| EUROPE | | | | | |
|--------|--------|--------|--------|--------|
| AUSTRIA | Tel: +43 1 616 4298-92 51 | ITALY | Tel: +39 0183 521377 | |
| | luftenfeuchtung@munters.at | | | marketing@munters.it |
| BELGIUM | Tel: +3215285611 | NETHERLANDS | Tel: +31 172 43 32 31 | |
| | service@muntersbelgium.be | | | vochtbeheersing@munters.nl |
| CZECH REPUBLIC | Tel: +420 775 569 657 | POLAND | Tel: +48 58 305 35 17 | |
| | info@munters-odvfhcovani.cz | | | dh@munters.pl |
| DENMARK | Tel: +4544953355 | SPAIN | Tel: +34 91 640 09 02 | |
| | info@munters.dk | | | marketing@munters.es |
| FINLAND | Tel: +358 207 768 230 | SWEDEN | Tel: +46 8 626 63 00 | |
| | laitemyynti@munters.fi | | | kundservice.avfuktning@munters.se |
| FRANCE | Tel: +33 1 34 11 57 57 | SWITZERLAND | Tel: +41 52 343 88 86 | |
| | dh@munters.fr | | | info.dh@munters.ch |
| GERMANY | Tel: +49 (0) 40 879 690 - 0 | UK | Tel: +44 1480 432 243 | |
| | mgd@munters.de | | | info@munters.co.uk |

| WORLDWIDE | | | | | |
|----------|--------|--------|--------|--------|
| AUSTRALIA | Tel: +61 288431588 | MEXICO | Tel: +52 722 270 40 29 | |
| | dh.info@munters.com.au | | | munters@munters.com.mx |
| BRAZIL | Tel: +55 11 5054 0150 | SINGAPORE | Tel: +65 6744 6828 | |
| | www.munters.com.br | | | singapore@muntersasia.com |
| CANADA | Tel: +1-800-843-5360 | SOUTH AFRICA | Tel: +27 11 997 2000 | |
| | dhinfo@munters.com | | | info@munters.co.za |
| CHINA | Tel: +86 10 804 18000 | TURKEY | Tel: +90 216 548 14 44 | |
| | marketing@munters.cn | | | info@muntersform.com |
| INDIA | Tel: +91 20 668 18 900 | UAE (Dubai) | Tel: +971 4 881 3026 | |
| | info@munters.in | | | middle.east@munters.com |
| JAPAN | Tel: +81 3 5970 0021 | USA | Tel: +1-800-843-5360 | |
| | mkk@munters.jp | | | dhinfo@munters.com |
| KOREA | Tel: +82 2 761 8701 | | | |
| | munters@munters.kr | | | |