

COTES LIGHTWEIGHT USER MANUAL



How to install, set up, operate and service
your Cotes Lightweight dehumidifier

Original instructions

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IMPORTANT INFORMATION

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Warranty conditions

The Cotes factory warranty is only valid if a documented programme of service and preventive maintenance has been carried out.

Maintenance must be carried out according to the instructions in the SERVICE AND MAINTENANCE section. Documentation for this must be in the form of a written log/journal, with attested entries.

All spare parts must have been purchased from Cotes or an authorized Cotes Partner.

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Compliance with directives and standards

- Machinery Directive 2006/42/EC
- Eco-design 327/2011 directive 2009/125/EF as regards the eco-design fans driven by motors with input power between and 125W to 500kW
- EMC Directive 2014/30/EU
- RoHS 2011/65/EC
- EN60204
- EN60335

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1 / ABOUT THIS HANDBOOK

1.1 GENERAL BACKGROUND

This is the installation and service handbook for your Cotes dehumidifier.

You should read the whole handbook before installing and/or starting the dehumidifier unit for the first time.

It is important that you and your colleagues are familiar with the correct operating procedures and all precautionary safety measures, in order to avoid any damage to the surroundings, materials or installations, as well as to prevent any personal injury.

This handbook is mainly intended for use by technicians who install and operate this Cotes dehumidifier unit, who carry out preventive maintenance and who replace defective parts.

Anyone using Cotes dehumidifier units, or whose responsibilities include supervising their operation, will also benefit from reading this handbook and from consulting it as a practical help should the need arise.

1.2 SYMBOLS USED IN THIS HANDBOOK



This tells you to perform a particular action



Important to note because items in the dehumidifier can cause injury or affect people's health



You need to pay special attention to this



NOTE

It is each operator's responsibility to read and understand this manual and other information and to employ the correct operating and maintenance procedures.

2 / ABOUT THIS DEHUMIDIFIER

2.1 INTENDED USE

Intended use of dehumidifier

The dehumidifier is designed for dehumidifying/conditioning atmospheric air only.
The air is filtered with a G4 filter.

The dehumidifier must be placed horizontally on the floor or on a table, and it should rest on the four rubber supports.

The unit is intended for use in residential, commercial and industrial environments.

Safety warnings

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.

Operating conditions



NOTE

The operating conditions of the dehumidifier must be respected.

For Process and Regeneration Air supplied to the dehumidifier the following limit values must be respected:

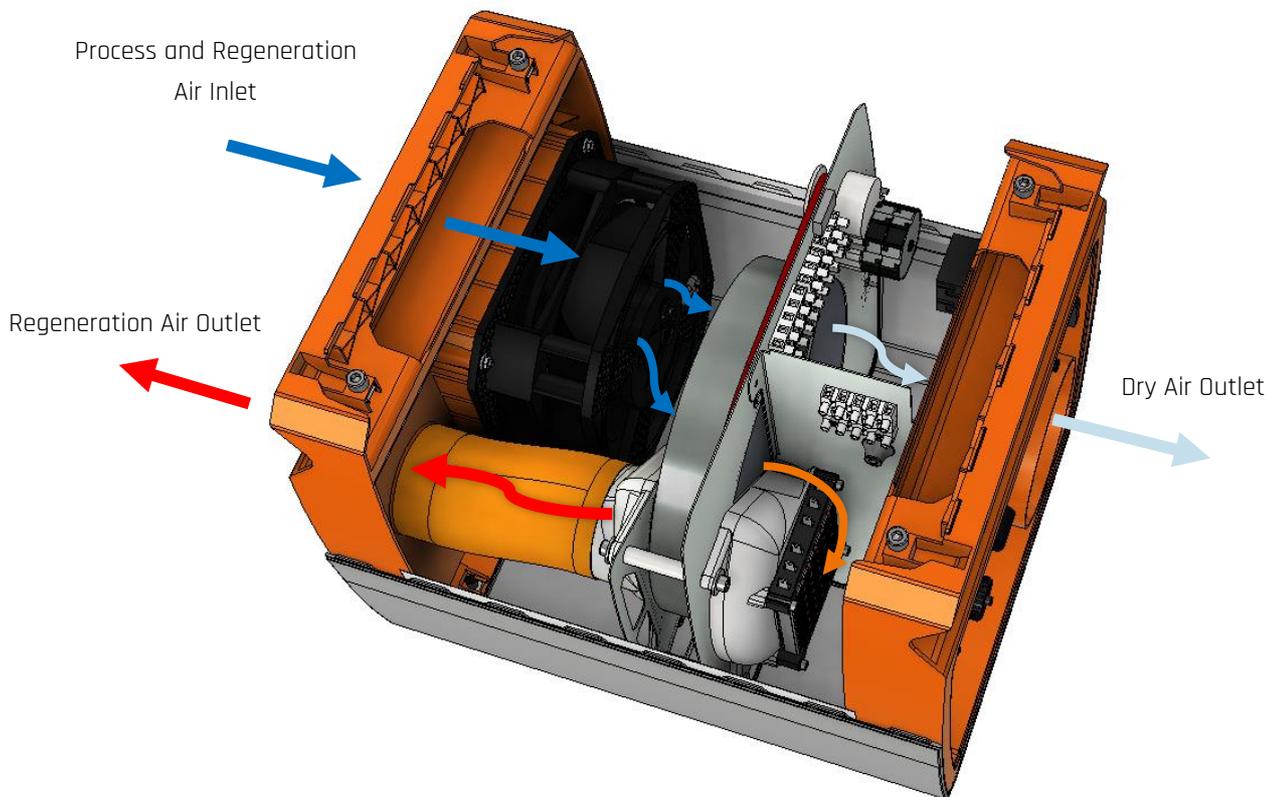
- Relative humidity 0% to 100%
- Temperature -20°C to 40°C
- Max./Min. Pressure ambient +/- 300 Pa

Foreseeable misuse

Unless specifically stated in the user manual or in a separate agreement with Cotes or a Cotes Partner, this dehumidifier must not be used for the following purposes:

- Conditioning of gases other than atmospheric air at ambient pressure.
- Conditioning air contaminated with any chemical or other aggressive/corrosive elements including salt (sodium chloride).
- Conditioning explosive or flammable air - including using the dehumidifier in ATEX-classified zones.

2.2 THE PRINCIPLE OF OPERATION



The effectiveness of Cotes adsorption dehumidifiers basically stems from the action (or interaction) of two air flows. In this case, one fan controls the air, and it is expelled later in the drying process.

The drying process

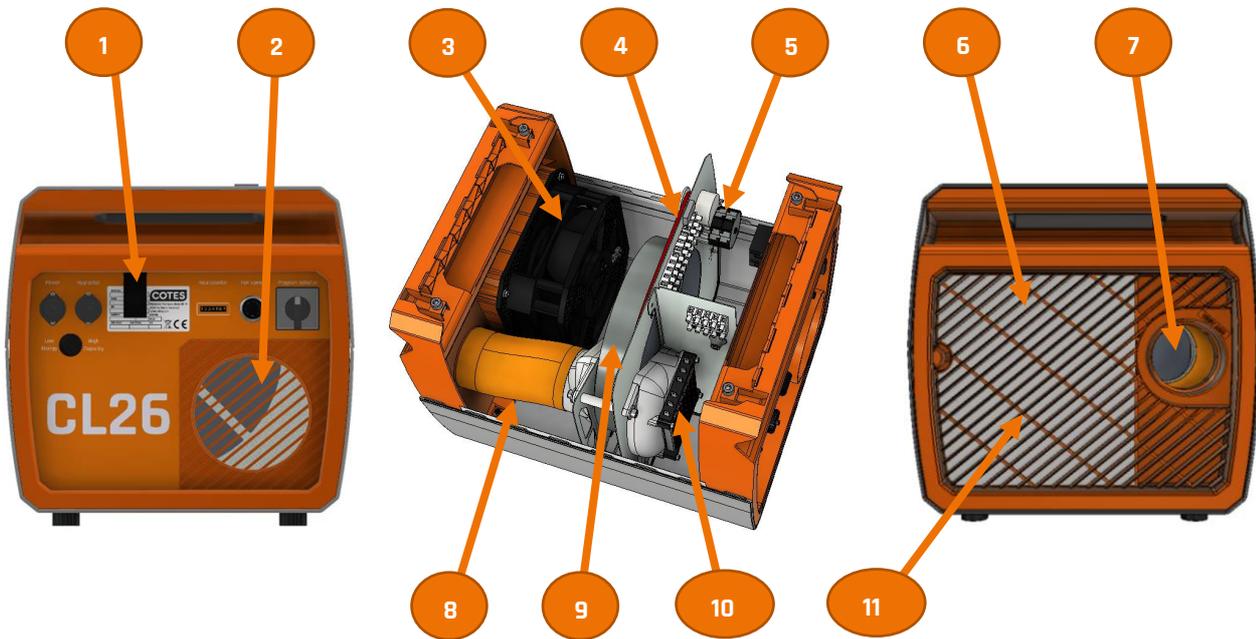
The incoming moisture-laden airflow enters one side of the cabinet and is filtered by an air filter. The air then passes through a slowly turning rotor whose inner surfaces are coated with desiccant silica crystals that attract the water molecules passing through. As the moist air passes through the rotor, water molecules are adsorbed and lodged in the pores on the silica gel's surface. This results in the air leaving the rotor with less moisture (humidity) content than when it entered. Additionally, because the adsorption process releases energy to the air, the temperature increases during the process. The air is then divided into two separate airflows – Process air and Regeneration air. Process air represents the now dry air.

Regeneration process

The regeneration air is then heated by a heating element to reduce its relative humidity. While passing through the rotor, this heat evaporates the moisture previously adsorbed by the silica crystals in the rotor. The resulting water vapour exits the dehumidifier alongside the outgoing regeneration air.

The two air flows run continuously while the rotor rotates - this ensures an automatic process of simultaneous adsorption and water extraction.

2.3 MAIN COMPONENTS



- | | |
|---------------------------|----------------------------|
| 1. Cable strap | 7. Regeneration Air Outlet |
| 2. Dry Air Outlet | 8. Flexible hose |
| 3. Air fan | 9. Desiccant rotor |
| 4. Drive belt | 10. Heater |
| 5. Gearmotor for rotor | 11. Filter lid |
| 6. Filter (Standard - G4) | |

See section
6 / SERVICE AND MAINTENANCE for information on how to access main components.

Optional accessories

Cotes Lightweight dehumidifiers can be fitted with the following optional accessories:

DESCRIPTION
Analogue hygrostat (Cotes DR10).
Cotes Window Kit
Bracket for wall mounting (with or without magnets)
Pipe adapter for inlet air (1 port and 2 port versions)

Contact Cotes for more details about optional accessories.

3 / HANDLING AND STORAGE

Incoming goods inspection

Cotes recommends that customers:

- Inspect incoming goods for visible damage.
- Photograph goods with obvious or suspected damage.
- Verify that the incoming goods comply with either the delivery note or sales order.
- If the delivery is found to be non-compliant, a written objection must be made immediately to the delivery driver and the delivery company.
- The delivery driver must countersign any objection letter.
- Provide a copy of any objection letters to the delivery driver and keep the original.

If you do not inspect the delivery, but accept and sign the transporter's receipt, then you will be liable for any product damage or missing products.

If you do not sign the transporter's receipt, but still accept the transporter's unloading of the deliveries, you are also liable for any product damage or missing products.

Handling

When ordering multiple dehumidifiers, they can be delivered on a pallet.

If the dehumidifiers have been delivered on a transport pallet, they can be moved using a forklift.

Cotes dehumidifiers are built to be very durable so there is no need for any special handling other than normal reasonable care and attention. But do not stand on it or use it as a stool/staircase.

Storage conditions



NOTE

The storage conditions of the dehumidifier must be respected.
Fast temperature changes increase the risk of condensation.

For storing the dehumidifier, the following conditions must be respected:

Relative humidity	0-95%; no condensation
Temperature	-25°C to 55°C

Deviation from these ranges is only possible if such deviations were explicitly specified at the time of placing the order, and special considerations have been integrated into the unit to address them.

Removing the packaging

The packaging must be disposed of in accordance with applicable regulations.

Please dispose of this packaging responsibly and, if possible, recycle.

4 / INSTALLATION AND COMMISSIONING

4.1 HOW TO INSTALL THIS DEHUMIDIFIER

Safety precautions

**NOTE**

Electrical work should only be carried out by an authorised electrician, and in accordance with national wiring regulations.

Any duct connections to and from the dehumidifier should only be carried out by an authorised ventilation installer. Only use appropriate power cable and accessories made for this dehumidifier.

Where to mount this dehumidifier

**NOTE**

The dehumidifier must be placed indoors in stationary installations and protected against rain and water on the cabinet.

The dehumidifier should be:

1. Installed indoors, placed on a horizontal based surface.
2. Placed on the four rubber supports underneath the cabinet.

The dehumidifier must:

1. Not be mechanically affected by other adjacent structures.
2. Have a minimum distance of 10cm to other structures.

Installation above sea level: Max. 3000 meter.

Where not to mount it

Unless it has been arranged with Cotes and special considerations have been made, the unit should not be placed outdoors.

The unit should not be placed inside an office or in other locations where the sound pressure level must be kept to a minimum.

4.2 CONNECTIONS



NOTE

Make sure power is switched off before installing and servicing.

Power connection

First, make sure that the selector switch is in position 0. Now the power cable can be connected to the mains.

Cotes Lightweight dehumidifiers are suitable for 230V-50Hz, 1PH+N+PE power supply.

The dehumidifier is supplied with build in socket for different cable length and plug for the power supply.

Connect this cable to the left socket (Power) on the control panel.

Hygrostat connection

The dehumidifier is prepared to be regulated by an external hygrostat. See appendix 2 for available options.

Set the hygrostat to the desired humidity level. The dehumidifier will start, when the humidity is above the selected level. The hygrostat cable is connected to the right socket (Hygrostat) on the control panel.

When using a hygrostat to control the dehumidifier, adjust the selector switch accordingly. See section 5.2.

Ductwork



NOTE

To ensure low pressure drop and low sound pressure levels, request assistance from a company that specialises in ventilation systems.

In general, ducts of the same size or larger as those placed on the dehumidifier should be used.

- The regeneration outlet is designed with a Ø80 mm female connection.
- The process air outlet (dry air) is designed with a Ø125 mm female connection.



NOTE

The regeneration air outlet duct should be directed at least a few degrees downwards to allow for drainage of the condensed water.

If this is not possible, drill a Ø6mm hole in the lowest part of the duct.

Installation

The installation of the dehumidifier can be done in various ways, depending on the added optional equipment. Some models have a switch to reduce the heater effect which can be used when the installation must be energy effective.

Fast installation:

Place the unit in the room to be dehumidified. Connect a Ø80mm duct to the regeneration air outlet. The other end of the duct must be placed outside the room, preferably in the outside environment. Set the potentiometer (if installed) to the desired value. See the Table 1 for recommended settings.

More accurate installation:

Place the unit in the room to be dehumidified. Connect a Ø80mm duct to the regeneration air outlet. The other end of the duct must be placed outside the room, preferably in the outside environment. Inside the Ø80mm duct, a constant flow damper must be added. Use the potentiometer (if installed) to reach the optimal power usages. See the Table 1 for recommended settings.

Optimal installation:

Place the unit in the room to be dehumidified. Connect a Ø80mm duct to the regeneration air outlet. The other end of the duct must be placed outside the room, preferably in the outside environment. Connect a Ø125mm duct to the process air outlet (dry air) and place the other end of the duct in the area where dry air is needed. Install a damper/valve in the Ø80mm duct to reduce the flow. A constant flow damper is the easy way, but a normal valve is also suitable, requiring an air flow measurement tool. For complete control of the airflows, a damper/valve (Ø125mm) in the process air is also needed if a reduction of the dry air is desired. Adjust the potentiometer (if installed) and the valve to reach the optimal values. See the Table 1 for recommended settings.

Table 1 Recommended settings.

		CL26 ENERGY MODE	CL26 CAPACITY MODE
Mode switch position		Low Energy	High Capacity
<u>Fast installation:</u>			
Potentiometer setting	-	5	5
<u>More accurate installation</u>			
Regeneration air	m ³ /hour	40	65
Power consumption	A	3,6	6,7
<u>Optimal installation:</u>			
Dry air	m ³ /hour	240	280
Regeneration air	m ³ /hour	40	65
Power consumption	A	3,6	6,7

How to adjust air flows



NOTE

Check the regeneration air duct for free blowing and drainage of condensed water.

The dry air flow can be adjusted when a damper Ø125mm is installed in the Dry Air Outlet duct. If a short duct is installed, the opening should be reduced on the damper to achieve the nominal air flow. Ensure the dry air flow is set to the nominal value (See table for recommended values).

To adjust the regeneration air flow, install a damper in the regeneration air outlet. Begin start-up with the damper in the open position and gradually close it until the Ammeter indicates the recommended value. Check the value again after approximately 15 minutes of operation (one more adjustment might be necessary). Regeneration air flow must always be controlled.

Check the air flows using a suitable instrument (pitot pipe/thermo-anemometer or similar) in the duct.

Once the electrical settings and air flows are adjusted, the dehumidifier will operate automatically through the internal control. See section 5.2 for more details of the switch setting.

Power consumption & airflows



NOTE

Do not touch the electric heater when switched on, as it is an uninsulated live wire.

The energy consumption of the PTC-heater depends on the air flow passing through. The air flow and energy consumption are regulated by a damper installed in the regeneration air duct system, and the potentiometer (if installed).

Adjust the damper and potentiometer (if installed) until the recommended nominal values are obtained. When a potentiometer is also installed, the adjustment of the dehumidifier is an iterative process.

NOTE: The energy consumption of the electric heater in the first seconds is up to 10A depending on the setup.

4.3 HOW TO COMMISSION THIS DEHUMIDIFIER



NOTE

Only trained or authorised electricians are allowed to carry out any work required in the electrical parts of this Cotes dehumidifier.

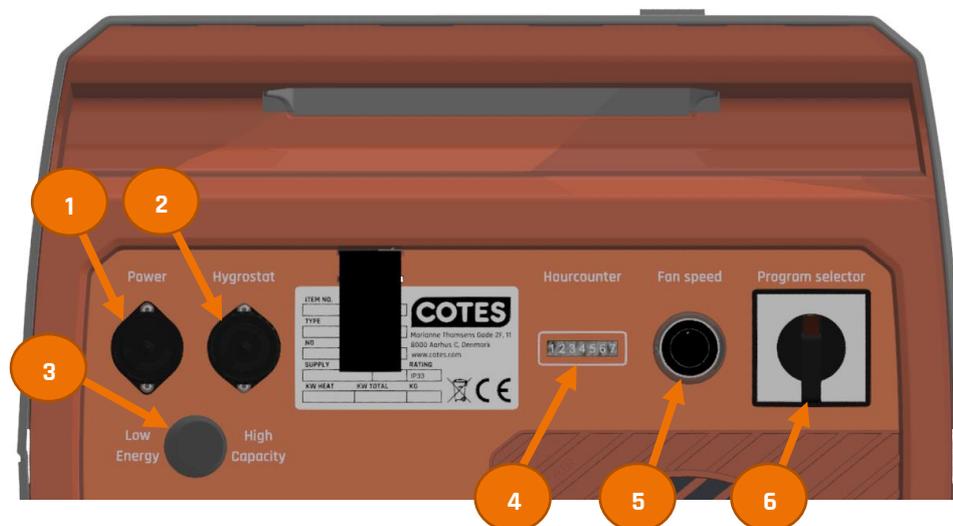
Ensure the power supply is switched off at the mains switch when the cover of the electrical box is open.

Commissioning procedure

1. Inspect the electrical installation before starting the dehumidifier and switch on the mains switch:
 - 230V – Check the voltage between the terminals L1, N
 - Is the ground cable connected, and of the correct specifications?
 - Is any hygostat (if fitted) correctly connected?
2. Check the connected duct system:
 - Is the recommended damper installed in the regeneration air outlet duct?
 - Is the optional damper installed in the Dry Air Outlet duct?
 - Do the regeneration air outlet ducts drain away from the dehumidifier, to make sure that any condensed water flows away?
 - If the regeneration air outlet does not drain away from the dehumidifier, check whether there is a 6mm-diameter hole drilled in the lowest part of the duct, so that any accumulated water can drain away.
3. Suggested damper positions/air flow settings at commissioning:
 - Dampers/settings should be set in the following positions.
 - Damper at Dry Air Outlet: Fully open.
 - Damper at Regeneration Air Outlet: Fully open.
4. Once the dehumidifier is operating, adjust the potentiometer (if installed) and air flows according to the values in the table below.

5 / OPERATION

5.1 CONTROL PANEL AND ELECTRICAL INTERFACES



- | | |
|--------------------------|---------------------------------------|
| 1. Power cable connector | 4. Hour counter |
| 2. Hygrometer connector | 5. Potentiometer (for fan adjustment) |
| 3. Mode switch | 6. Program selector switch |

5.2 HOW TO OPERATE THIS DEHUMIDIFIER

Cotes Lightweight dehumidifiers are designed for maximum dehumidification and the standard setting is continuous operating time. This configuration is intentionally simple, with no dehumidification management installed.

Starting and stopping the dehumidifier



NOTE

Avoid frequent switching on / off the selector switch as this may damage the contact element or the connected hygrometer.

The dehumidifier is started and stopped using the selector switch. The selector switch has four positions:

- Man = Manual, continuous operation
- 0 = Switched off
- Auto = Automatic, operation with connected hygrometer
- Auto + Fan = Automatic, operation with connected hygrometer and fan always on.

Turn the selector switch to the appropriate position to start the dehumidifier in the selected operating mode. When the selector switch is set to 0, the machine is turned off and all components are without power.

6 / SERVICE AND MAINTENANCE

6.1 HOW TO SERVICE THIS DEHUMIDIFIER

Safety instructions



WARNING

Before opening the dehumidifier, make sure that the electric power is switched off on the main switch (or pull the plug!).

Before opening the dehumidifier, make sure the power is turned off at the mains before you open any cover. Otherwise, there will be a risk of electric shock. Also, be aware that the heater element may be hot if the lid is removed immediately after turning off the dehumidifier.

Service and maintenance work on this dehumidifier

Cotes designs its dehumidifier units so that they are as robust as possible, requiring only minimal service and maintenance. None of the components require lubrication or adjustment. The only maintenance work you need to do is listed below. Keep the service area clear at all times and make sure diagrams and manual are kept near the machine. The machine will automatically start up in case of power loss and recovery of electricity.

It is strongly advised to keep an 'Inspection and Maintenance Log' containing validations and observations from inspections and maintenance.

Service and maintenance in wind turbine installation

Only three items should be done during normal operation and following the normal service intervals for installation in the nacelle and tower of a wind turbine:

- Replace air filters.
- Check the rotation of the rotor.
- Check the power consumption of the electric heater according to the table with recommended values.

If the rotor rotates during operation, and the energy consumption is correct, you can be almost certain that the dehumidifier is operating at its optimum.

Nevertheless, we recommend some periodic verification of the entire dehumidifier, to see if all internal functions are functioning correctly, check that cables are securely fixed and inspect for any damage to the insulation.

At least once a year or more frequently as needed

- Check or replace the air filter.



NOTE

Delaying filter changes is likely to shorten the life of the fan and heaters.

Once a year

We recommend the following annual checks:

- Check that the fan is working (by listening to check if it is turning).
- Check the working hours of any component inside. See time-to-change limits table below.
- External humidity sensor should be calibrated or replaced (with calibrated instrument).
- Check the inside of the cabinet for any signs of dirt or corrosion.
- Check that the drive belt for the rotor is still tight and that no parts of it are too worn or close to the breaking point.
- Check that the insulation on all electrical cables is intact, with no mechanical or heat damage.
- Check that the insulation on the electric heater is intact.
- Check that all cables attached to the dehumidifier are properly attached and all components are intact.
- Test that all electric components are working as intended – for example by following the instructions in section 4.3 HOW TO COMMISSION THIS DEHUMIDIFIER

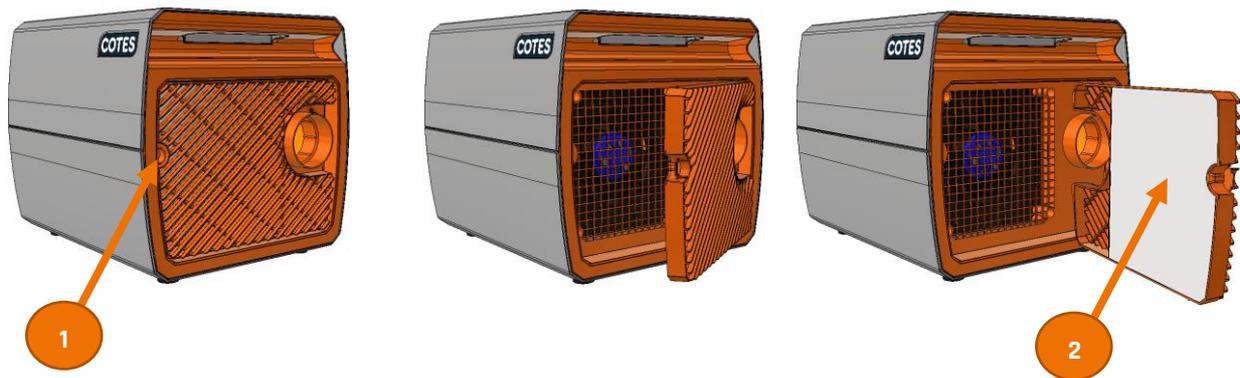
Table 2 Recommended time-to-change limits.

TIME-TO-CHANGE LIMIT (depending on which comes first)		
Component	Working hours	Months
Air filter	8.700	12
Air fan	25.000	36
Gearmotor for rotor	25.000	36
Electrical heaters	25.000	36
Drive belt for rotor	25.000	36
Rotor	42.000	60

The above limits should be considered as guidelines only, as the actual and required times will depend on the working environment

Air filter replacement

Access to the filter is done by tipping the finger tap (1) to the right and remove the filter lid. Once accessed, the filter (2) can be removed and replaced. The filter can be replaced without turning the dehumidifier off, but it is easier when turned off. Replacement filter (no. 650009) fits into the shape of the filter lid. When reattaching the filter lid, make sure the lid is properly placed. No unnecessary force should be used, but the lock should be pressed back into place to lock the filter lid.



Access for service/repair

To access components inside the machine, remove the top cover. The top cover is fastened with 4 screws on the top of the device.

Air fan replacement

To replace the fan, disconnect the fan electrical connectors, and then proceed to unscrew the screws securing the fan. The screws (4 pcs) are located inside the air filter box and can be accessed from the outside by removing the filter cover. For easier access, remove the 2 rubber feet that hold the fan section. Finally, the fan section can be separated from the bottom shell.

Rotor, drive belt, gearmotor and electrical heater replacement

To replace the rotor, drive belt or gear motor, but also the electrical heaters, you need to:

1. Disconnect the flexible hose from the Rotor section and the Fan section.
2. Disconnect the ground connection, 1x Power, 1x Selector, 1x Potentiometer, and 2x Fan - connectors.
3. Lift the complete rotor section and place it on a flat horizontal surface.

Now all components are easily accessible for replacement.

Reassembly of the dehumidifier

Reverse the workflow and be observant when refitting the rotor section back in the bottom shell. Ensure that the sheet metal is correctly fitted into the bottom rib, ribs on the control panel, and grabs the plastic part on each side. No unnecessary force should be used. When fitting the lid, hold it with one hand on each side and press the walls slightly outwards until it is past the inner "air trap foil". Then look at the 'teeth' and press lightly on the side wall to make sure that the 'teeth' is held correctly. Do not use a lot of force. When all the teeth on both sides are in place, you can use force on the top and fix the lid with the 4 screws.

6.2 TROUBLESHOOTING

Before contacting Cotes Technical Support, please review the list of possible problems below.

This list is helpful in identifying faults that can often be remedied without the assistance of qualified personnel.

Table 3 Troubleshooting.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The dehumidifier does not start when connected to the power supply.	<ol style="list-style-type: none"> 1. The external fuse has turned off. 2. The external hygrostat has switched off. This is a normal situation when the desired relative humidity is obtained. 3. The internal fuse has turned off. 	<ol style="list-style-type: none"> 1. Check the external fuse. 2. Adjust hygrostat to the lowest value. The dehumidifier should start operating. Adjust again to the desired humidity. 3. Replace the internal fuse.
Desired humidity is not obtained	The problem may be the dehumidifier - or other parts of the entire installation (airtightness, hygrostat ...).	<ol style="list-style-type: none"> 1. Check that the fans are moving air. If not, replace the broken fan. 2. Check that the rotor is turning as intended. If not, replace the gearmotor. 3. Check that the Dry Air Outlet is warmer than the inlet. 4. Check that the regeneration air outlet is warmer than the inlet by approx. 40-60 °C depending on temperature conditions of inlet. 5. Check that the value on the ammeter is according to the table with recommended values. If fans and rotor are working, replace the heating element.

APPENDIX 1 – TECHNICAL DETAILS

SERIAL NUMBER/IDENTIFICATION

The nameplate with the serial number of this specific model is located on the control panel of the dehumidifier.



ITEM NO.		
650130		
TYPE		Bjørnholms Allé 20, 1. 8260 Viby J, Denmark www.cotes.com
CL26 dehumidifier		
NO		YY.XXXXXX
YY.XXXXXX		
SUPPLY	HZ	RATING
230V PH+N+PE	50	IP33
KW HEAT	KW TOTAL	KG
1,4	1,57	10,8

Serial number example:

24.12345

12345 = Serial number

24 = Year of production

SPECIFICATIONS

Please note that specifications and controls given in this handbook are in some situations approximate.

Table 1 Technical data

SPECIFICATIONS		CL26	CL26
		High Capacity mode	Low Energy mode
Dry air, free blowing	m ³ /hour	500	500
Dry air, nominal	m ³ /hour	350	250
Regeneration air, nominal	m ³ /hour	65	40
External pressure, dry air, nominal	Pa	130	180
External pressure, regeneration air, nominal	Pa	280	280
Capacity at 20C, 60% RH	Kg/24h	26,4	19,2
Power consumption, Nominal	kW	1,46	0,84
Voltage/Phases	V / Ph	220-230 / 1PH+N+PE	
Internal thermal fuse	°C	84	
External fuse in connected installation	A	Min. 10 / Max. 16	
Type of distribution system		TN-S	
IP rating (With both outlet ducts connected)		IP33	
Sound level: Nominal / Free blowing, at 1m	dB(A)	66 / 69	60 / 69

STANDARD SPARE PARTS

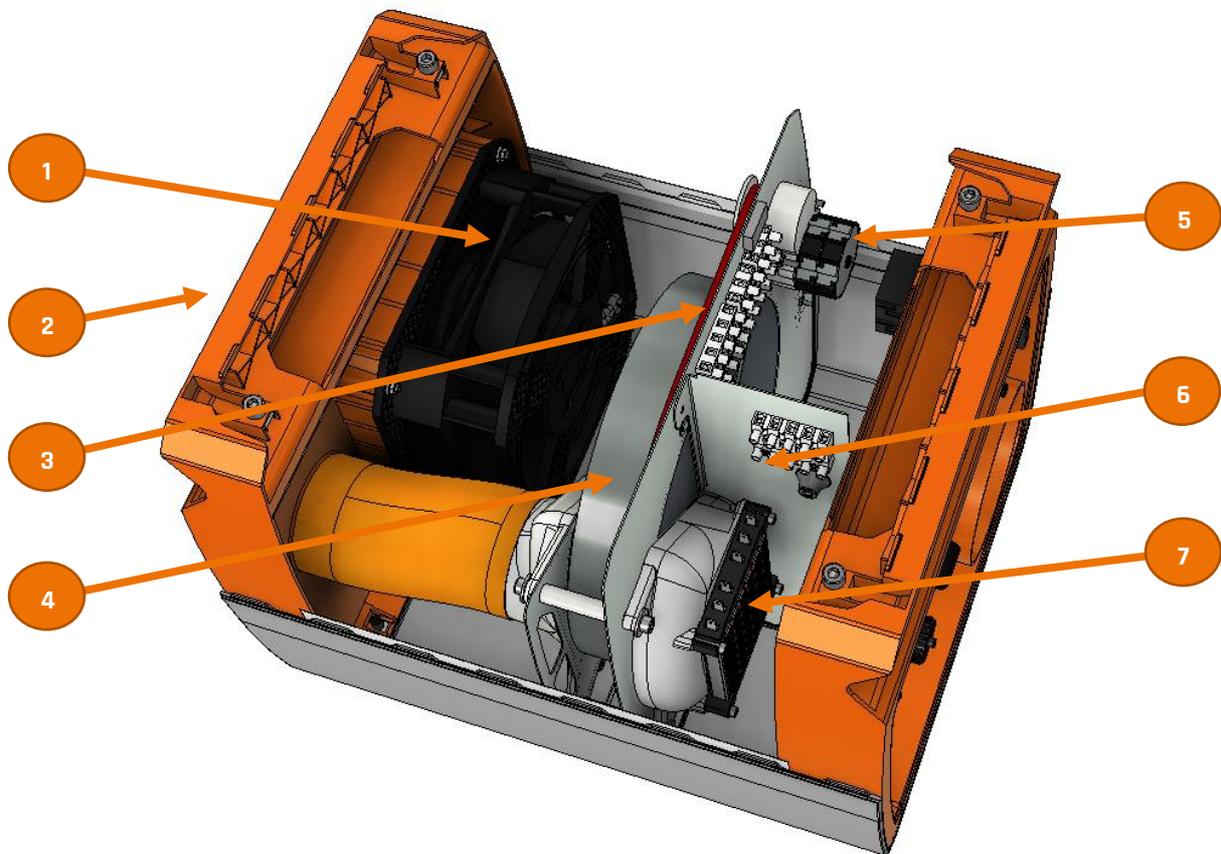


Table 2 Standard spare parts

SPARE PART		ARTICLE NUMBER
		CL26
1	Air fan (Service pack kit)	777438
2	Air filter - Not visible (Service pack kit 10 pcs.)	777417
3	Drive belt for rotor (Just the belt)	132104
4	Rotor (Just the rotor)	124059
5	Gear motor for rotor (Service pack kit)	777472
6	Internal thermal fuse (Just the fuse)	650205
7	Electrical heater (Just the heater)	111468

MEASUREMENTS

Dimensions

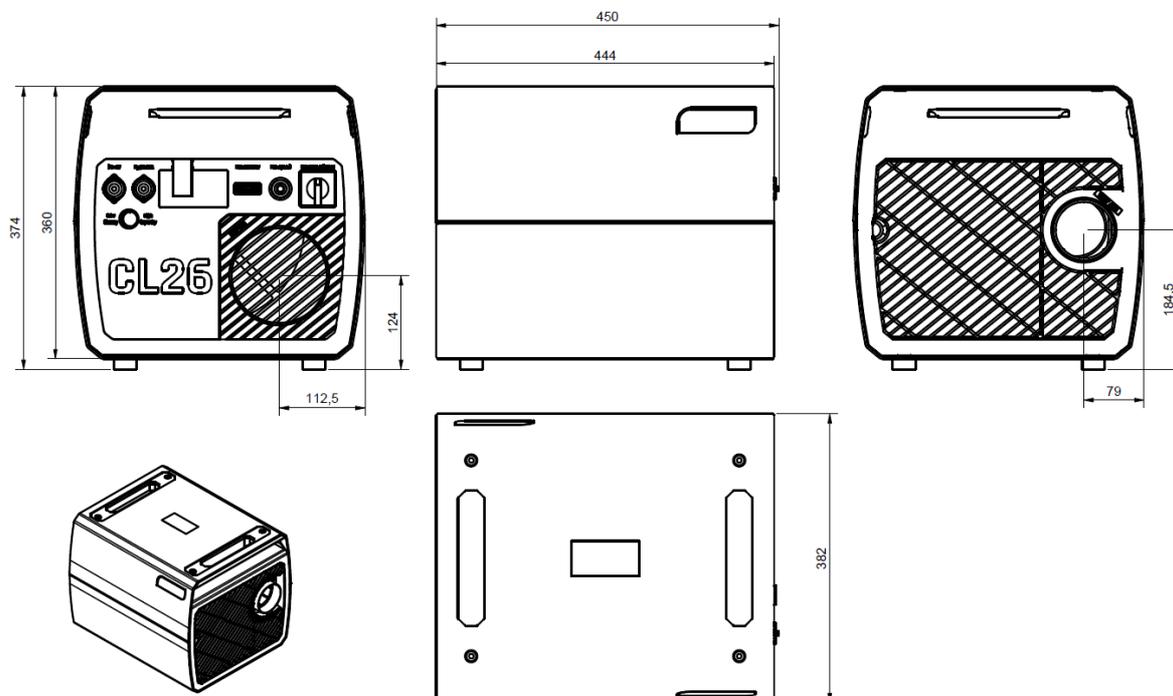


Table 3 Measurements

MEASUREMENTS		
	Model	CL26
W x D x H cabinet	mm	444 x 382 x 360
W x D x H total	mm	450 x 382 x 374
Process and Regeneration Air inlet	mm	202x208
Dry Air outlet (female ventilation coupling)	mm	Ø125
Regeneration air outlet (female ventilation coupling)	mm	Ø80
Weight (without power cable)	kg	10,9