

C22LK USER MANUAL



How to install, set up, operate and service
your Cotes C22LK dehumidifier

Original instructions

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IMPORTANT INFORMATION

Contact information

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WWW.COTES.COM

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

Technical information

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Disposal

This dehumidifier unit is designed to function effectively for many years. When it has reached the end of its service life, any disposal must be carried out in compliance with appropriate national legislation and procedures to safeguard the environment.

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 Cotes C22LK dehumidifier is for indoor use in stationary installation only and should not be placed in locations where the cabinet can be exposed to water.



NOTE

The dehumidifier must not be exposed to water of any kind.
This might cause electrical shock.

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

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

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% RH *
- Temperature -20°C to 35°C *
- Max./min. Pressure ambient +/- 300 Pa

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.

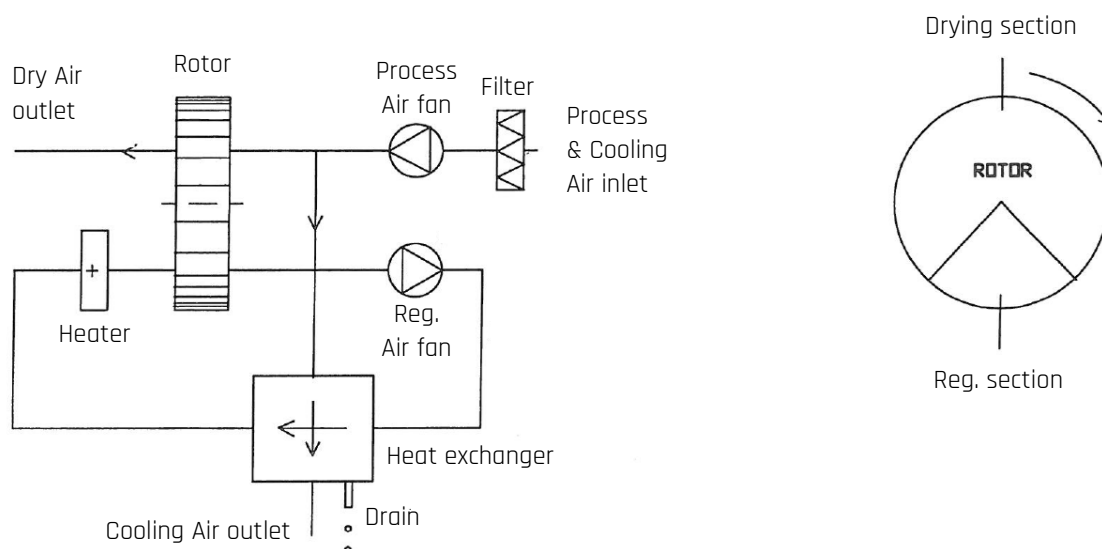
* At inlet air temperatures higher than 20°C or relative humidity lower than 30%, a reduction of capacity must be expected.

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 principal operation of an adsorption dehumidifier with a desiccant rotor, coated with silica gel.

There are 2 air flows going through the rotor in 2 separate sections.

Process air and regeneration air (henceforward called reg.-air).

Process air:

The process air passes the drying part of the rotor (app. 75% of the rotor material).

In the rotor, part of the water content is adsorbed by the silica gel, and the air leaves the rotor as dry air.

In this process, heat is released, and the process air is heated a bit.

Regeneration air:

The reg. air is heated by a heater prior to going through the rotor (app. 25% of the rotor material).

The hot reg. air retracts the water molecules from the silica gel and leaves the rotor as wet air.

The reg. air is cooled a bit leaving the rotor, but still hot and moist.

The effect of Cotes adsorption dehumidifiers in C-LK range stems from the action of three flows of air.

1. Process air
2. Cooling air
3. Reg. air

Process air and Cooling air has the same inlet through the filter and is controlled by the Process air fan.

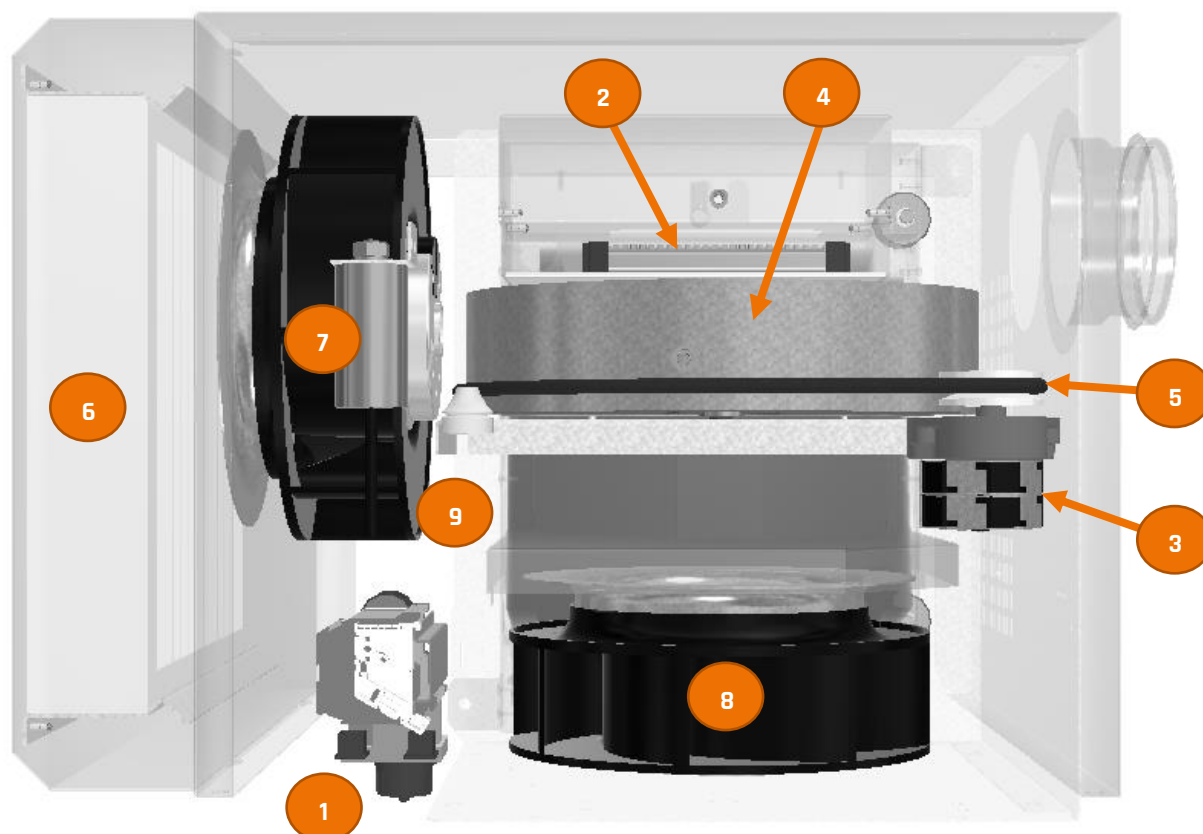
Reg. air is only internal air in a closed circulation and is controlled by the Regeneration air fan.

After the reg. air has left the rotor, it is cooled down by the cooling air, in a heat exchanger. When the hot and moist air is cooled down, a condensation is happening inside the heat exchanger. Solid water will run out of the heat exchange and down to the drainpipe. The cooling air will leave the dehumidifier, a bit hotter than the inlet air. The reg. air is cooled down and reused when returning to the heater.

Applications

Dehumidifiers in the C-LK range can be used for dehumidification of ambient air at normal atmospheric pressure. This can be an installation for moisture control in an unheated storeroom, in a waterwork building, production room for hygroscopic materials... - with the dehumidifier in a separate installation.

2.3 MAIN COMPONENTS



- | | | |
|------------------------|-----------------------|-------------------------|
| 1. Control panel | 4. Desiccant rotor | 7. Process air fan |
| 2. Electrical heater | 5. Drive belt | 8. Regeneration air fan |
| 3. Gearmotor for rotor | 6. Process air filter | 9. Heat exchanger |

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

3 / HANDLING AND STORAGE

Incoming goods inspection

Cotes recommends the following:

- 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. However, the dehumidifier must not be exposed for water.

Consider the weight when handling the dehumidifier.

See APPENDIX 1 – TECHNICAL DETAILS or contact Cotes for accurate weight of your specific dehumidifier.

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	-20°C to 50°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.

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.

Any duct connections to and from the dehumidifier should only be carried out by an authorised ventilation installer.

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 - the floor, on a table or in a wall bracket.
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.

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.

Connections needed - electrical**NOTE**

Make sure power is switched off before installing and servicing.

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

Connections needed - ductwork**NOTE**

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

The main air to be dried is normally drawn from the room and through the main air filter. As standard, the dehumidifier is delivered with a frame covering the filter.

- The process and the cooling air is normally taken from the room, through the air inlet filter.
We cannot recommend connecting ducts at the air inlet and for the cooling air outlet.
The dry air outlet can be connected some ducting, with regard of the available external pressure.
- The drain to be connected a hose of 10 mm inside diameter.
The hose to be installed draining away from dehumidifier and must have a water trap installed.
(e.g. a loop on the hose, without pinching the hose)

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

4.2 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

Before starting-up the dehumidifier, check that all electric connections are made correctly.

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 hygrostat (if fitted) correctly connected?
- Power supply, 230V, 10A external fuse?
- PE connection made and in right dimension?
- Hygrostat connected (plug)
- Hygrostat for 10A contact rating?

If this is OK, just connect the plug of the supply cable to the plug on the cabinet.

How to adjust air flows

No adjustment of the air flows is necessary. The dry air flow is free blowing and should not be reduced (if so, the capacity will decrease).

The reg.-air is adjusted by the manufacturer and must not be changed.

The dehumidifier will operate automatically by means of the internal control - and safety functions – controlled by an external hygrostat.

Regulations by hygrostat

The dehumidifier is prepared to be regulated by an external hygrostat (e.g. Cotes DR10) with a contact load of 10A. Set the hygrostat to the desired humidity level. The selector switch must then be in position "HYG".

The dehumidifier will start when the humidity is above the selected level.

The hygrostat cable is connected to the socket on the front of dehumidifier.

Electric connection

The dehumidifier is supplied with a detachable cable for the power supply (230V, 1PH+N+PE). The cable can be delivered with different sockets and cable length.

The power cable is connected to the socket on the front of the cabinet.

Connection of hygrostat, see "Regulations by hygrostat", on above page.

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.

At the nominal regeneration air flow, the energy consumption of the heater is 640W, which is equivalent to indication of 2,8A on the Ammeter - Only measuring the heater.

The air flow and thereby energy consumption are fixed by the design of the internal regeneration air duct system.

NOTE: The energy consumption of the electric heater in the first seconds is up to 7,5A depending on the setup.

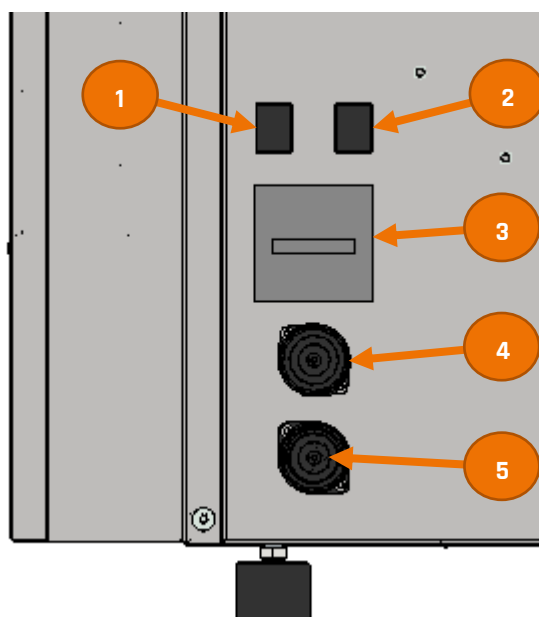
In the electric heater the power consumption is decided by the reg. air flow - which is adjusted by the manufacturer. During operation the external ammeter should indicate app. 3,2A as the ventilator and gearmotor also use power.

THE INSTALLED ELECTRIC HEATER:

The PTC type electric heater is only functioning when air flows through. This is the reason why no thermostats or thermostatic switch is installed, as the function of these components will be regulation of the energy for the electric heater.

5 / OPERATION

5.1 CONTROL PANEL AND ELECTRICAL INTERFACES



1. On/Off toggle switch (S2):
 - 0 = Off
 - 1 = On
2. Operating mode toggle switch (S2):
 - Man = Continuous drying
 - Hyg = Drying according to RH settings
3. Hour counter
4. Hygrostat connector
5. Power cable connector

5.2 HOW TO OPERATE THIS DEHUMIDIFIER

Cotes C22LK 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

The dehumidifier is started and stopped using toggle switch. The toggle switch has two positions:

- 0 = Switched off
- 1 = Switched on

Turn the selector switch to the appropriate position to start the dehumidifier in the selected operating mode.

- Man = Manual, continuous operation
- Hyg = Automatic, operation with connected hygrostat

If the humidity (%RH or dew point) in the air is below the value set on the humidity controller, the dehumidifier will not start (humidity OK). Adjust the controller (Hygrostat) to lowest possible value and the dehumidifier will normally start, unless the air is very dry.



NOTE

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

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.

No after cooling is installed in this 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. The structural cabinet of the C22LK dehumidifier have an expected lifetime +30 years, all other components can be easily replaced/repared in case of malfunction. None of the components require lubrication or adjustment after commissioning. The only maintenance work you need to do is noted below.

The dehumidifier is maintenance free, except for replacing of air filter – How often depends on the surrounding air quality, but at least once a year.

Only three items should be done during normal operation and following the normal service intervals:

- Check the air filter (Replace if necessary).
- Check the rotation of the rotor.
- Check the power consumption of the dehumidifier.
(Reading approx. 3,2A on external Ammeter, during operation).

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.
- Check if all internal functions are ok and checking of gaskets and moving parts for wear and tear.
- Check if the draining system works - Water can escape the draining pipe.

This will ensure that the capacity is on its maximum, and thus won't waste any energy.

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.

An 'Inspection and Maintenance Log' must be kept containing as a minimum the serial number of the machine, the date and extent of the maintenance work carried out with an indication of the hour counter.

At least once a year or more frequently as needed

- Check or replace the air filter.



NOTE

Air filter should be replaced regularly when dirty.
 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 fans are working (by listening to check if they are 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(s) is intact.
- Check that all cables inside the electrical box 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 4.2 HOW TO COMMISSION THIS DEHUMIDIFIER.

Table 1 Recommended time-to-change limits.

TIME-TO-CHANGE LIMIT (depending on which comes first)		
Component	Working hours	Months
Process air filter	8.700	12
Process air fan	25.000	36
Regeneration 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.



NOTE

If replacement intervals are not followed, it might cause reduced or no dehumidification. Further it might cause damage to the dehumidifier.

Air filters replacement

The filter should be replaced as required depending on the environment in which the unit is used.

To replace the filter:

1. Make sure that power to the dehumidifier unit is disconnected.
2. Remove the filter cover on the side of the unit. Lit up and pull out.
3. Take out the filter and clean it with compressed air/vacuum cleaner or replace it if this is necessary.
4. Install the new filter.
5. Mount the filter cover on the side of the unit and reconnect the power supply.

Access for service/repair

Place the dehumidifier on a table.

- Remove the filter box including the filter and remove the rear cover (U-shaped) – 4 screws on the front.
The 2 U-sides of the rear cover to be twisted in opposite direction for releasing the cover.
- Remove the handle (2 screws on the top).
- Unplug the electrical connectors. (Front cover to the internal components).
Now the internal components can be removed by twisting the front cover.

Process air fan, rotor, rotor drive belt, gearmotor and electrical heater replacement

Unplug the connector for the process fan and remove the 8 screws fixing the plate facing towards the back cove, on which the process fan is fixed. Remove the L-shaped plate including the process fan.

Now fan, heater, rotor and drivebelt for the rotor are accessible for replacing.

Gearbox for rotor is accessible too (not so easy, but Possible).

Regeneration air fan replacement

Unscrew the wires from the plug and remove the ground plug.

Unscrew the 8 countersunk screws on the edge of the plate (plate facing the front cover).

Do not unscrew the 4 screws holding the fan yet. Lift the plate at bit before pulling it out.

Not the fan can be replaced.

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 2 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 hygostat has switched off. This is a normal situation when the desired relative humidity is obtained. 	<ol style="list-style-type: none"> 1. Check the external fuse. 2. Adjust hygostat to the lowest value. The dehumidifier should start operating. Adjust again to the desired setting. 3. Check also that the selector switch on the dehumidifier is in the required position
Desired humidity is not obtained	The problem may be the dehumidifier - or other parts of the entire installation (airtightness, hygostat, ...).	<ol style="list-style-type: none"> 1. Check that the fans are moving air. If not, replace the broken fan(s). 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 cooling air outlet is warmer than the inlet by approx. 5-6 °C depending on temperature conditions of inlet. 5. Check that the value on an external ammeter is approx. 3,2 A. If fans and rotor are working, replace the heating element.



NOTE

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

Further help

Contact Cotes or the local Cotes Partner for any additional help or guidance you may need.

7 / DISPOSAL GUIDELINES

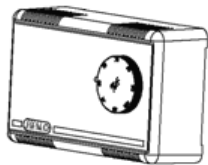
The C22LK consists of multiple materials and when a single part needs replacement or the complete unit is disposed, more information can be found below. The C22LK unit consists of the following main parts:

- **Adsorption rotor.** The rotor media is made from silica gel and glass fibre.
The rotor media is non-combustible, and it should therefore be disposed as **waste landfill**.
The rotor frame is made of galvanized steel and should be disposed separately as **metal scrap**.
- **Electrical components**, panel instruments, gear motor, heaters should be disposed as **electrical waste**.
Main consistent is metal or plastic housing, copper winding and printed circuit boards. Although the parts can be separated, they are not built for it and no separate instruction can be given.
- The **process fan** may be separated into **electrical waste** and **plastic** (wheel) and specific plastic type is printed on the rotor/impellor.
- The **regeneration fan** may be separated into **electrical waste** and galvanized **steel** (fan housing) which should be disposed separately as **metal scrap**.
- **Sheet metal parts** should be disposed separately as **metal scrap**.
Most metal parts are AISI304 and can be reused after processing.
- **Filters** consists of synthetic media and should be disposed as **polymer/polypropylene waste**.

The disposal should be carried out according to national rules based on the above-mentioned information.

8 / ADDITIONAL EQUIPMENT

The following additional equipment is available for installation with Cotes CL26LK dehumidifier units.

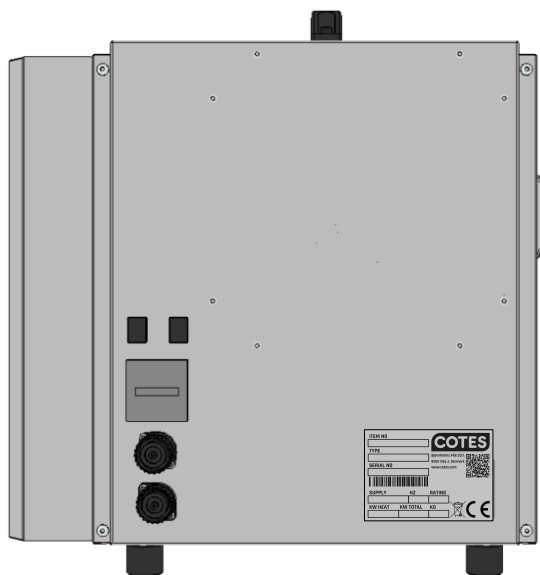
ADDITIONAL EQUIPMENT	ILLUSTRATION	BRIEF DESCRIPTION	PRODUCT NUMBER
HYGROSTAT DR10		The Cotes dehumidifier is designed to be connected to an external hygrostat in cases when it is important to maintain a specific relative humidity value. This hygrostat can be set to ensure relative humidity between 30-100%. The cable from the hygrostat must be provided with a male connector that fits into the dehumidifier's hygrostat connector on the front of the cabinet.	140510

Contact Cotes for more details about optional accessories.

- APPENDIX 1 - TECHNICAL DETAILS

SERIAL NUMBER / IDENTIFICATION

The nameplate with the serial number of this specific model is located on the right side of the dehumidifier.



ITEM NO			COTES
C22LK-XXX			
TYPE			
C22LK dehumidifier			
SERIAL NO			Bjørnholms Allé 20.1. 8260 Viby J, Denmark www.cotes.com
YY.XXXXXX			
SUPPLY	HZ	RATING	
230V PH+N+PE	50	-	
KW HEAT	KW TOTAL	KG	
0,64	0,75	22	

Serial number example (Barcode):

24. 12345

12345 = Serial number

24 = Year of production

QR Code: Link to web page for more information regarding the unit.

SPECIFICATIONS

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

Table 3 Technical data

SPECIFICATIONS		
Dry air, free blowing (Nominal)	m ³ /hour	115
External pressure, dry air, nominal (no ducts)	Pa	0
Capacity at 15C, 60% RH	Kg/24h	9,1
Power consumption, Total, nominal	W	737
Power consumption, Total, Max.	W	750
Voltage/Phases	V / Ph	220-230 / 1N+PE
External fuses	A	10
Type of distribution system		TN-S

STANDART SPARE PARTS

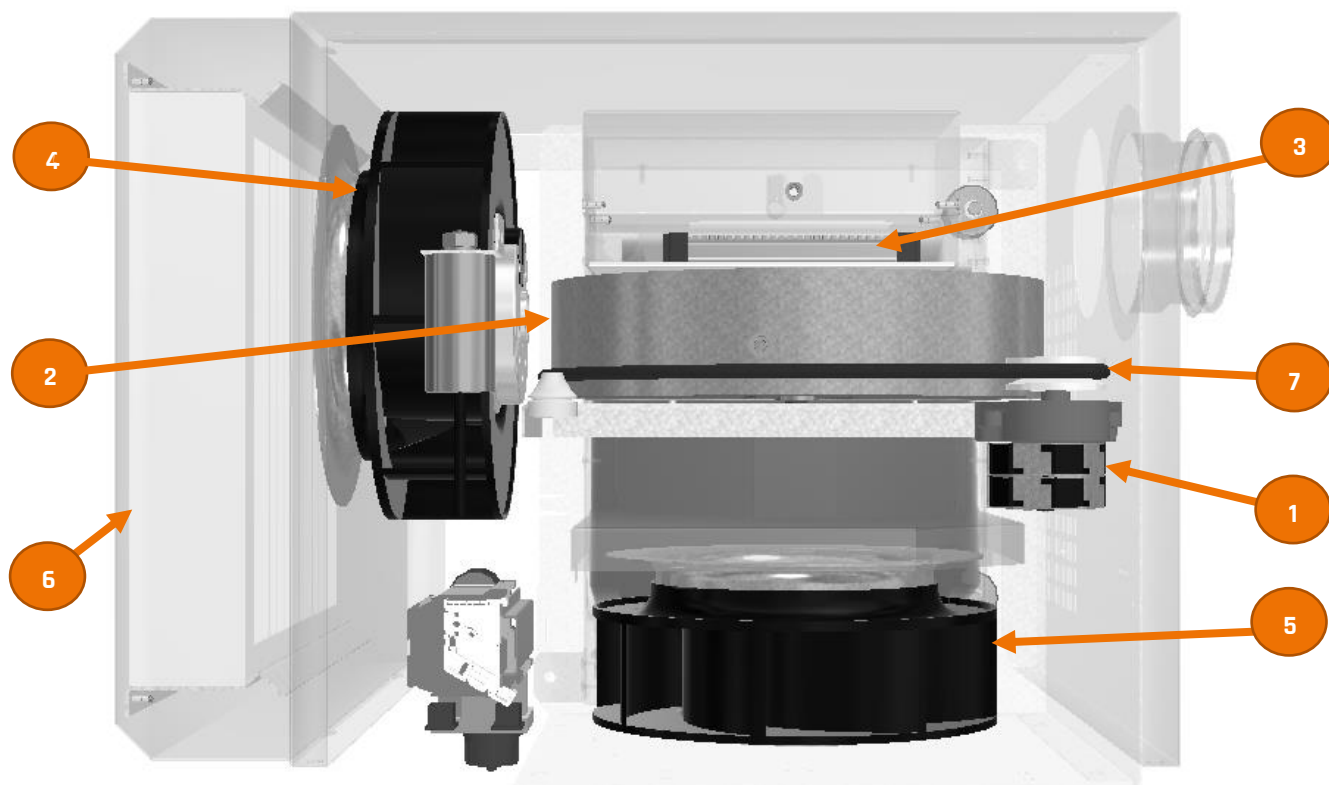


Table 4 Standard spare parts

	SPARE PART	ARTICLE NUMBER
1	Gear motor for rotor (Service pack kit)	777602
2	Rotor (Service pack kit)	777603
3	Electrical heater (Service pack kit)	777604
4	Process Air fan (Service pack kit)	777605
5	Regeneration Air fan (Service pack kit)	777606
6	Air filter (One G4 panel filter)	130216
7	Drive belt for rotor (Just the belt)	132123

MEASUREMENTS

Standard variants

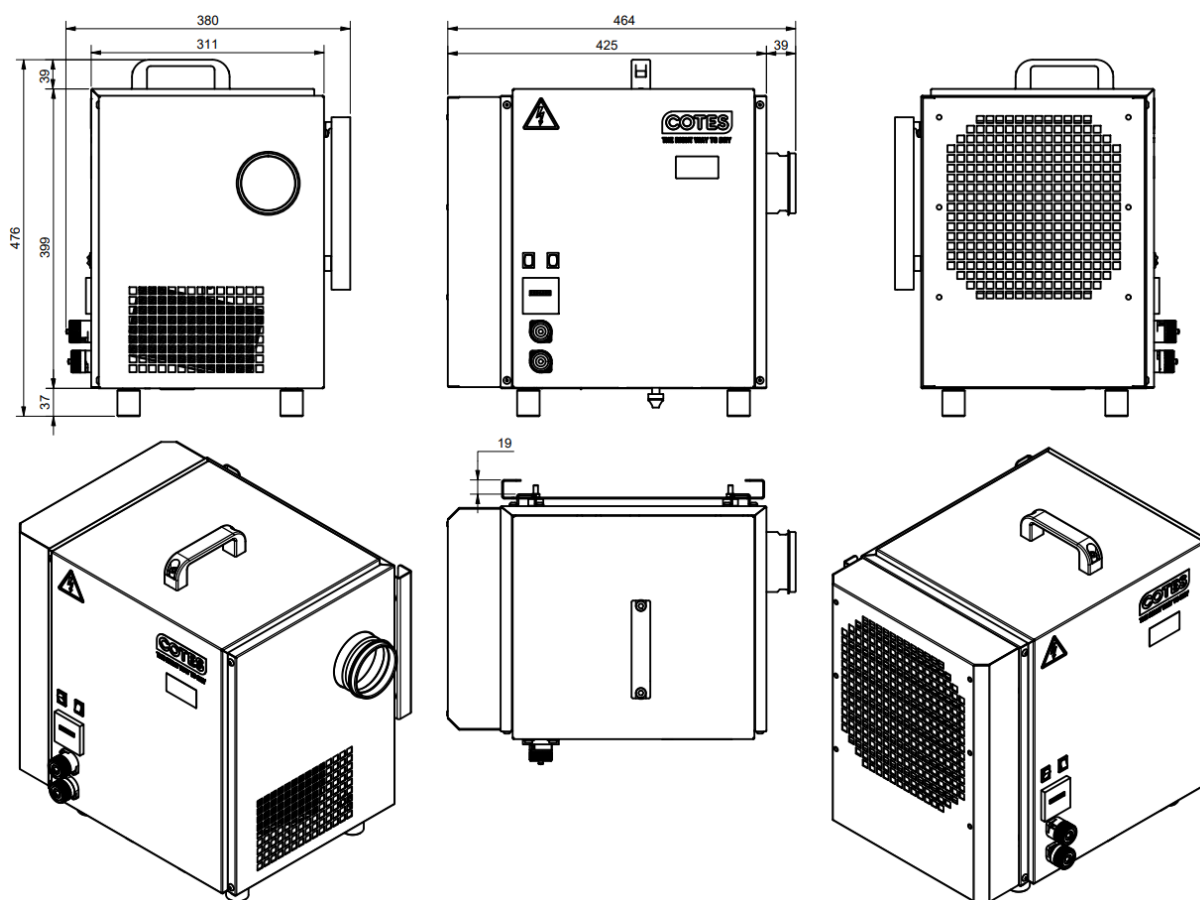


Table 5 Measurements

MEASUREMENTS		
W x D x H cabinet	mm	425 x 311 x 399
W x D x H total (incl. wall bracket)	mm	464 x 380 x 476
Process and cooling air inlet	mm	231 x 244
Process air outlet (male ventilation coupling)	mm	Ø80
Cooling air outlet	mm	179x114
Weight	kg	22
Sound level: Free blowing (Nominal), at 1 m from the front/filter	dB(A)	57/60

- **APPENDIX 2 - ELECTRICAL DIAGRAMS**

See separate document for the electrical documentation.

- **CHANGELOG**

Revision: .

- Initial document.