

Cotes dehumidifiers CR120B, CR240B/BT, CR290B/BT, CR300B/BT, CR400B/BT

Revision: A

COTES ALL-ROUND BUILDING DEHUMIDIFIERS – CR-B

How to install, set up, operate and service your
Cotes CR-B/BT dehumidifier



CONTENTS

SECTION 1 / GENERAL BACKGROUND	3
ABOUT THIS HANDBOOK	3
ABOUT MANAGING HUMIDITY	5
ABOUT COTES	6
SECTION 2 / THE DEHUMIDIFIER	7
PRINCIPLE OF OPERATION	7
APPLICATIONS	8
SECTION 3 / TECHNICAL DETAILS	9
SERIAL NUMBER/IDENTIFICATION	9
SPECIFICATIONS	10
ASSEMBLIES AND COMPONENTS	12
ELECTRIC COMPONENTS	14
SECTION 4 / INSTALLATION	19
HOW TO INSTALL THIS DEHUMIDIFIER	19
HOW TO COMMISSION THIS DEHUMIDIFIER	22
SECTION 5 / OPERATION	24
HOW TO OPERATE THE C30E DEHUMIDIFIER	24
SECTION 6 / SERVICE AND REPAIR	27
HOW TO SERVICE AND REPAIR THIS DEHUMIDIFIER	27
SECTION 7 / FORMALITIES AND GENERAL/LEGAL INFO	29
WARRANTIES	29
LEGAL NOTICES	30
EU DECLARATION OF CONFORMITY	31
ELECTRICAL DIAGRAMS	APPENDIX

SECTION 1 / GENERAL BACKGROUND

ABOUT THIS HANDBOOK

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.

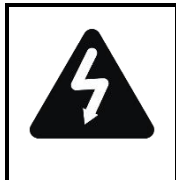
Product number for this handbook

This is the number you need to give us if you would like to order additional copies for your staff, colleagues or service personnel, or for technical staff from outside your company.

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.

ABOUT MANAGING HUMIDITY

Cotes humidity management technology – cost-effective and energy-efficient

The moisture in the air all around us has surprising – and often costly – effects on the materials, structures and processes at the heart of virtually all business processes and industrial activity.

Cotes humidity management technologies enable you to control the levels of moisture in the air inside any building, installation or facility, using only a bare minimum of energy.

And effective control of the basic parameters for your operations is good business.

ABOUT COTES

World leader

Cotes is one of the world's leading experts in the field of adsorption dehumidification, providing technology and expertise that enable companies to achieve better control of the humidity always present in the air.

Better management of the humidity in the air also makes it possible to improve and optimise a wide range of industrial processes, prevent damage and corrosion in many types of structures, and reduce energy consumption in all kinds of installations where air specifications are important.

Big benefits

Cotes dehumidification units provide exceptional advantages.

- Our know-how and experience make sure each customer gets the right equipment to tackle all the practical needs and operating priorities associated with the specific installation
- Our units are exceptionally reliable, and can withstand even harsh treatment unusually well
- They are very easy to maintain and service
- They only use a minimum of energy in order to achieve maximum effect.

We aim to provide our customers with the most technically effective and energy-efficient solution for the best price. This ensures the best possible return on investment, as well as peace of mind about having made the best decision.

SECTION 2 / THE DEHUMIDIFIER

PRINCIPLE OF OPERATION

The dehumidifier removes water from an airflow through, and the removed water is carried away from the dehumidifier with the regeneration air (henceforward called reg.-air). Water adsorption and - extraction takes place in a rotor made of water resistant silica gel.

The air flows in the dehumidifier divides the rotor in two parts: drying part and reg.-part.

Two separate air flows goes through the rotor as this:

- The main air (moist air inlet) goes through the drying part, and leaves the dehumidifier as dry air
- The reg.-air coming from the outside through the internal hose to the reg.-air fan, goes through the electric PTC-heater and will be heated to 130C (at 20C inlet). Going through the reg.- part this energy will be used for evaporation of the adsorbed water. The water vapours and the reg.- air now leaves the dehumidifier through the reg. air outlet

The two air flows are fixed and the rotor turns - this gives an automatic process of simultaneous water adsorption and water extraction.

APPLICATIONS

Dehumidifiers in the CR range is used for dehumidification of ambient air at normal atmospheric pressure. This can be an installation for moisture control in an unheated store room, in a water work building, production room for hygroscopic materials... - with the dehumidifier in a separate installation.

The dehumidifier also can be used as a part of a bigger air treatment system. Here the dehumidifier often will be placed in a by-pass to the main system. In this case the pressure in the main system will influence the dehumidifier - and your supplier must be contacted, as this can influence the capacity of the dehumidifier.

Normally the dehumidifier will be placed on the floor, on a table or in a wall bracket (option). It should always be placed horizontal, resting on the four off rubber supports.

The air to the dehumidifier should be free from solvents or other explosive components, and should be free from pollution from solid particles.

For air to the dehumidifier the following limit values must be respected:

- Max. humidity 100 %RH
- Max. temperature 35C
- Max./min. pressure ambient +/- 300Pa



NOTE

The CR range is for indoor, stationary installations.
Should not be placed in rooms with possibility for free water on the cabinet.

Storage conditions

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

Relative humidity	0–95%
Temperature	-20°C to 50°C

It is only possible to deviate from these ranges if such deviations were specifically mentioned when the order was placed, and special considerations have been incorporated into the unit in order to deal with this.



NOTE

Storage conditions for the dehumidifier must be respected.

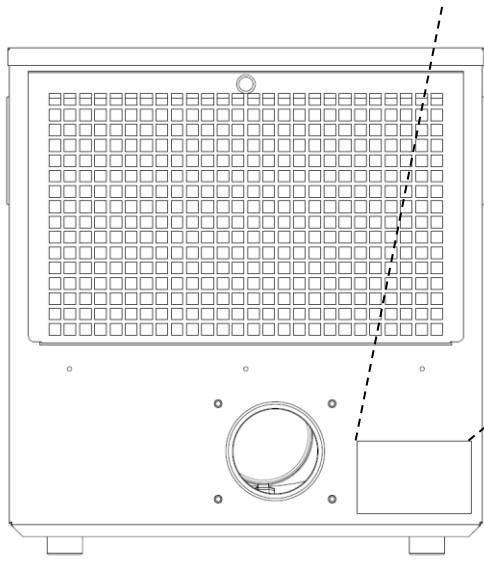
SECTION 3 / TECHNICAL DETAILS

SERIAL NUMBER/IDENTIFICATION

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

The serial number/identification code for your particular model is located in the top of the dehumidifier (see drawing below).

ITEM NO.		CE	COTES
11301E			
TYPE			
CR300B- 230V/50Hz			
NO	KG		
YY.XXXXXX	26		
V	HZ	SUPPLY	
230	50	1N+PE	
KW HEAT		KW TOTAL	
1,38		1,52	
		Cotes A/S	
		Ndr. Ringgade 70C	
		DK 4000 Slagelse	



Serial number:

Example:

16.12345

12345 = Serial number

16 = Year of production

SPECIFICATIONS

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

Table 1 Technical data CR-B line.

	Type	CR120 B/BT	CR240 B/BT	CR290 B/BT	CR300 B/BT	CR400 B/BT
Dry air, free blowing	m3/hour	150	240	290	320	420
Dry air, nominal	m3/hour	120	240	290	300	400
Reg.-air, nominal	m3/hour	40	40	65	65	70
External pressure, dry air, nominal	Pa	60	50	30	80	50
External pressure, reg.-air, nominal	Pa	50	50	50	50	50
Capacity at 20C, 60 %RH	Kg/24 hour	11,04	19,2	26,4	26,4	35
Power consumption, PTC heater, maximum	W	1100	1500	1800	2200	2700
Power consumption, PTC heater, nominal	W	730	940	1380	1380	1840
Process air fan	W	60	135	160	160	160
Gear motor	W	5	5	5	5	5
Power consumption, nominal	kW	0,75	1,08	1,54	1,54	2,05
Voltage	V	230	230	230	230	230
External fuses	A	10	10	10	10	10
Optimal value for Amp. Meter	A	3,5	4,1	6,0	16	16

Table 2 Further Specifications CR-B

Type		CR120 B/BT	CR240 B/BT	CR290 B/BT	CR300 B/BT	CR400 B/BT
Rotor	mm	Ø220/50 Silica gel	Ø260/50 Silica gel	Ø260/50 Silica gel	Ø300/100 Silica gel	Ø300/100 Silica gel
Rotations of rotor	rph	18	18	18	8,9	11
Gear (for rotor, make Saia)		B30S	B30S	B30S	J30S	J1M
Drive belt	mm	Ø6/880	Ø6/880	Ø6/880	Ø8/1070	Ø8/1070
Pulley		R993	R993	R993	SPZ50-1	SPZ63

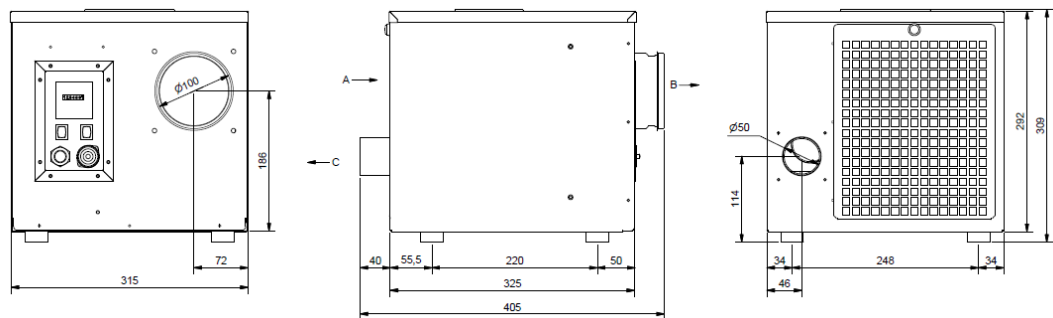
Table 3 Measurements

Type		CR120 B/BT	CR240 B/BT	CR290 B/BT	CR300 B/BT	CR400 B/BT
L x W x H cabinet	mm	325 x 320 x 295	400 x 335 x 335	400 x 335 x 335	470 x 410 x 405	470 x 410 x 405
L x W x H total	mm	405 x 320 x 310	475 x 335 x 365	475 x 335 x 365	545 x 410 x 430	545 x 410 x 430
Weight	kg	12	18	19	28	28
Regeneration air outlet	mm	Ø50	Ø80	Ø80	Ø80	Ø80
Process air inlet	mm	Ø127/Ø82 (option)	Ø125/Ø80 (option)	Ø125/Ø80 (option)	Ø100/Ø160 (option)	Ø100/Ø160 (option)
Process air outlet	mm	Ø100	Ø100	Ø100	Ø125	Ø125
Air inlet	mm	240 x 205	160 x 290	160 x 290	210 x 350	210 x 350
Sound level	dB	58	58	64	64	64

ASSEMBLIES AND COMPONENTS

Dimensions of CR120B

The dehumidifier is showed without the optional ILU plate for process in



Description	
A	Process and regeneration air intake
B	Dry air outlet
C	Regeneration air outlet

Spare parts for CR120B

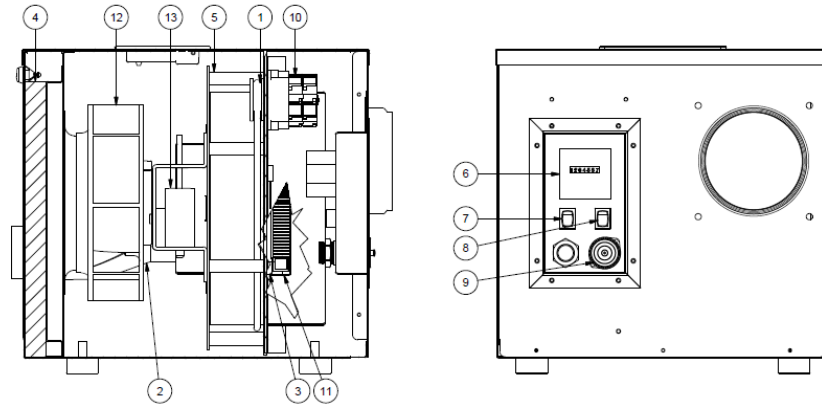
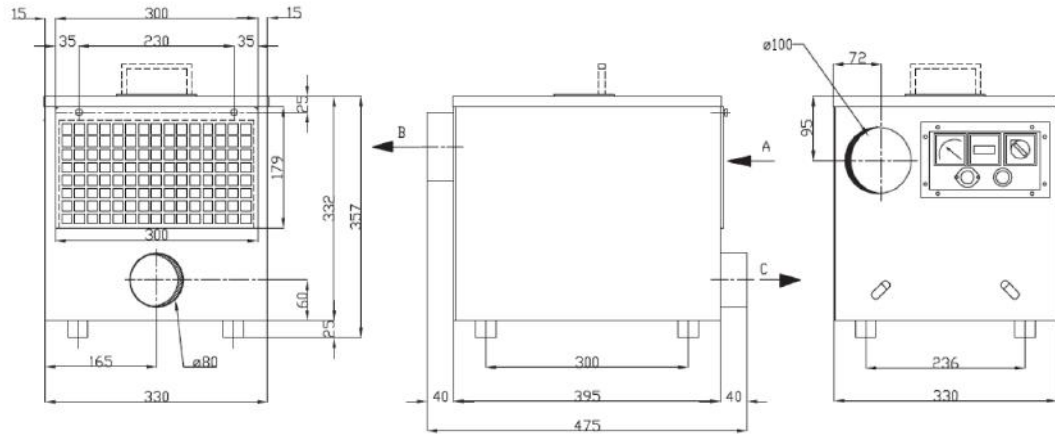


Table 4 Spare parts list for CR120B

Description		Number
1	Drive belt	132110
2	Hose Ø51	130550
3	Insulator for heating element	131017
4	Filter 260x220mm	130267
5	Rotor Ø220/50	124052
6	Hour counter	112003
7	On/off switch, start/stop (black)	110235
8	On/off switch, auto/man (red)	110235
9	Hygrostat	112000 / 112001
10	Gear/motor	110406
10A	Capacitor 0.12 µF /for gear)	110431
11	Heating element	111456
12	Fan	111610
13	Capacitor 1.5 µF (for fan)	111632
14	Timer	111850

Dimensions of CR240B/BT and CR290B/BT

The dehumidifier is showed without the optional ILU plate for process in



Description	
A	Process and regeneration air intake
B	Dry air outlet
C	Regeneration air outlet

Spare parts for CR240B/BT and 290B/BT

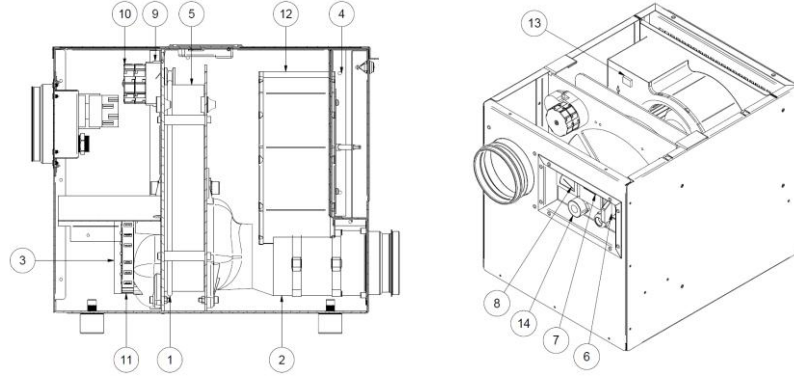
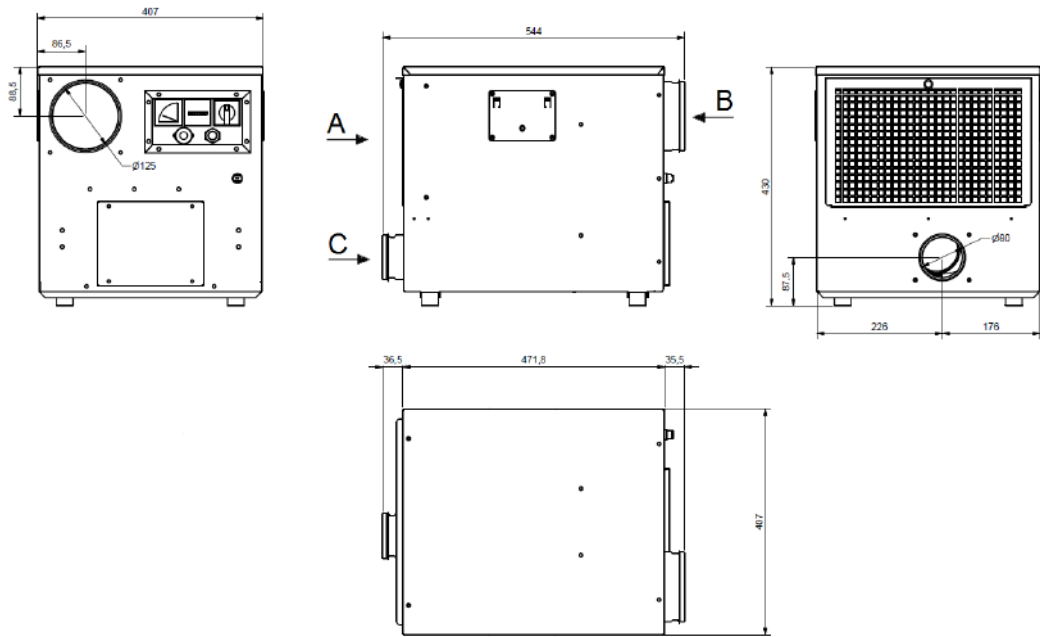


Table 5 Spare parts list for CR240B/BT and CR290B/BT

Description		CR240B/BT	CR290B/BT
1	Drive belt	132104	132104
2	Hose Ø83	130635	130635
3	Insulator for heating element	132313	132313
4	Filter	130259	130259
5	Rotor	124060	124059
6	Selector switch M/O/A	110215	110215
7	Hour counter	112003	112003
8	Amp meter	110000	110000
9/10a	Gear/Motor gear)	110406	110406
10b	Capacitor 12 µF (for	110431	110431
11	Heating element	111457	111468
12	Fan	111661	111770
13	Capacitor 0.12 µF (for fan)	110431	110431
14	Hygrostat	112000 / 112001	112000 / 112001
	Timer	111850	111850

Dimensions of CR300B/BT and CR400B/BT

The dehumidifier is showed without the optional ILU plate for process in



Description	
A	Process and regeneration air intake
B	Dry air outlet
C	Regeneration air outlet

Spare parts for CR300B/BT and CR400B/BT

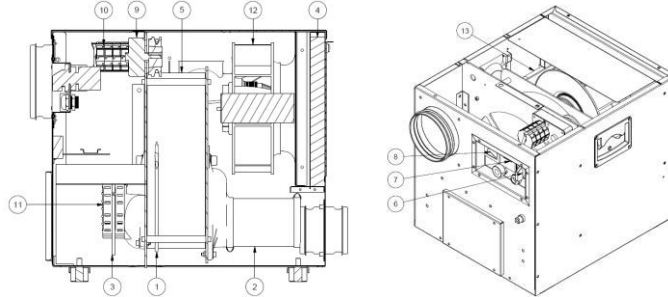


Table 6 Spare parts list for CR300B/BT and CR400B/BT

	Description	CR300B/BT	CR400B/BT
1	Drive belt	132109	132109
2	Hose Triapren NGM Ø51	130635	130635
3	Insulator for heating element	123471	131017
4	Filter	130257	130257
5	Rotor	124058	124058
6	Selector switch M/O/A	110215	110215
7	Hour counter	112003	112003
8	Amp meter	110000	110000
9	Motor	110400	110400
10A	Gear	110410	110410
10B	Capacitor 0.22 µF (for gear)	110430	110430
11	Heating element	111468 (1 piece)	111465 (2 pieces)
12	Fan	111630	111630
13	Capacitor 4 µ F (for fan)	111622	111622
14	Hygrostat	112000 / 112001	112000 / 112001
	Timer	111850	111850

Electric components

Refers to electric diagrams: enclosed as appendix to this manual.

Regulations by hygostat

The dehumidifier is prepared for external regulation by a hygostat. The hydrostat is mounted in the black hygostat plug to be found in the electrical tray in the front of the dehumidifier.

If one use a hygostat – not supplied by COTES please be aware of, that the hygostat contact set must be able to handle the full current (table 1) consumed by the dehumidifier. Please consult electrical diagram for connections.

Electric connection

The dehumidifier is connected 230V, PH+1N+PE. The dehumidifier is supplied with a 2m cable for the power supply. For power consumption and external fuses please consult table 1 in the beginning of this manual. This cable is connected to the internal terminals placed in the compartment under the top cover. In this compartment, also the Ammeter, hour counter, selector switch and the power line filter are placed.

Power consumption & airflows

The energy consumption of the PTC-heater is depending of the air flow passing through. At the nominal reg.-air flow the energy consumption of the heater is at its nominal power and the ampere meter will be at its nominal value – please see table 1 or the sticker on the ampere meter for optima current consumption. The airflow and the energy consumption is regulated on the damper supplied in our standard reg.- duct system (option).

NOTICE: the current consumption of the electric heater in the first seconds (inrush current) is up to 15A until the heater gets hot.



NOTE

Frequent start/stop on the selector switch should be avoided, as it can damage the contact element or the connected hygostat.



WARNING

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

SECTION 4 / INSTALLATION

HOW TO INSTALL THIS DEHUMIDIFIER

Removing the packaging

Cotes CRB/BT dehumidifier units are delivered in cardboard boxes. Please dispose of this packaging responsibly, and recycle it if possible.

Handling

Cotes dehumidifiers are built to be very robust, so there is no need for special handling, apart from normal sensible care and attention.

Note the weight of the dehumidifier as specified in table 2.

Where to mount this dehumidifier

The dehumidifier should be installed indoors, placed on a wall bracket or some other horizontal basis. It should be placed on the four rubber supports underneath the cabinet.

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.



NOTE

Dehumidifier must be placed indoors, and protected from rain and water.

Things to be careful about

Electrical work should only be carried out by an authorised electrician.

**NOTE**

Electrical work should only be carried out by an authorised electrician.

Connections needed – electrical

First, make sure that the main switch is OFF.

**NOTE**

Make sure power is switched off before installing and servicing.

Now the power circuit cable can be connected to the main switch of the dehumidifier.

Connections needed – ductwork**NOTE**

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

The main air to be dried is normally taken from the room, and through the main air filter in the back plate. As standard the dehumidifier is delivered with filter / filter frame, but optional plate with connection for inlet air can be supplied. Reg.-air inlet and outlet should be fitted with suitable ducts, installed draining away from the dehumidifier to allow the condensed water to run free. If this is not possible, a hole Ø6 mm should be drilled underneath at the lowest part of the duct. Dry air outlet should also be connected with suitable ducts (see specific dimensional drawings).

In general ducts of the same size as placed on the dehumidifier should be used - or bigger.

**NOTE**

The regeneration air outlet should be made to drain downwards towards the outlet for draining.

If this is not possible, drill a $\varnothing 6\text{mm}$ hole in the lowest part of the duct, so that any accumulated water can drain away.

A damper for adjusting the regeneration air flow must be installed on the outlet in order to adjust the regeneration air flow. If not, the regeneration air flow will – in most cases – be too high, making it impossible to reach the desired temperature for the regeneration air and thus making the unit less efficient. Use a standardised tool for measuring the velocity according to specifications.

Safety precautions

Any work in the electrical box should only be carried out by authorised electricians.

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

HOW TO COMMISSION THIS DEHUMIDIFIER



NOTE

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

When the cover of the electrical box is open, the power supply must be switched off at the mains switch.

Procedure

a) Check the electrical installation before starting the dehumidifier, switch on the main switch.

- Check that all electrical connections are made correctly.
- Plug in the electric power supply, ground cable and HFI
- Plug in hygrostat (extra option)

For units with two switch buttons

- Push the toggle switch S1 (red) to position “I”
- Push the toggle switch S2 (black) to position “man” for continuous operation, or in position “hyg/auto” if controlled by a hygrostat.

For units with 3 pos. selector:

- Place selector switch in man mode.

b) To check the connected duct system

- It is recommended to install a damper in the regeneration air outlet duct
It is recommended to install a damper in the process 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.

c) Suggested damper positions/air flow settings at commissioning

Dampers/settings should be set in the following positions.

- Damper at process air outlet: Fully open and then to be closed to obtain correct flow distribution between process and reg. circuit.
- Damper at regeneration air outlet: Fully open.

d) Once the dehumidifier is operating, you should adjust the air flows

Adjust the dampers on process air and regeneration air so the incoming air flow matches the nominal values given on page 9. Check the air flows using a suitable instrument (pitot pipe/thermo-anemometer or similar) in the duct.

e) Manual or hygostat

After successful operation in point a-d, please position selector switch or S2 in correct mode depending on if a hygostat is installed (Hyg/auto) or not (Manual).

SECTION 5 / OPERATION

HOW TO OPERATE THE CR-B/BT OUR COMPANY DEHUMIDIFIER

The CR-B/BT dehumidifiers are designed for maximum dehumidification, and the standard setting is that it is kept running at all times. This configuration is kept as simple as possible, which is why there is no dehumidification management installed.

STARTING AND STOPPING THE DEHUMIDIFIER

The selector switch has three positions (S1):

- Manual = continuous operation
- 0 = switched off
- Automatic = operation with connected hygostat

At starting up, select the position for the chosen operation mode.

Especially at "automatic":

If it does not start-up, it can be caused by the hygostat. If the actual %RH is lower than wanted, the hygostat is broken.

This can be checked like this:

- Adjust the hygostat to 20 %RH, and the dehumidifier should then be operating
- Adjust the hygostat to 90 %RH, and the dehumidifier should stop operating.

Stop of dehumidifier (only BT models)

The relay 10KX (on delay, 1 min.) controls the gear motor and the reg.air fan. This means that they will continue operating even that the dehumidifier is stopped by a connected hygostat or on the selector switch. This continued operation cools the electric heater and at the same time the evaporated water vapours from the warm rotor material in the reg-section is ventilated out of the dehumidifier. It is important that the dehumidifier is stopped as de- scribed above and this delay for gear motor and reg.air fan is achieved. If not the moisture might cause short circuit in the PTC heater at restart.

HOUR COUNTER

The mechanical hour counter is located in the front and can be checked at all times.

AIR FLOWS

Air flows should be adjusted in order to ensure optimal performance.

The dry air flow should be adjusted for the nominal/optimal value for obtaining data from the capacity diagram. If the installation is normal dehumidification of a room for 50 - 100 %RF it is acceptable that the dehumidifier is free blowing (without adjustment). If lower dew points are wanted, you need to adjust the dry air flow.

How to adjust the airflows

- the dry air flow can be adjusted when a damper is installed in the dry air duct. If only a short duct is installed, the airflow should be reduced on the damper to obtain the nominal regeneration airflow m³/h (see table 1).
- the reg.- air flow can be adjusted on the damper in the reg.-air outlet (option). Start-up with the damper in the closed position, opening until the amperemeter indicates the optimal value A (found in . Check the value again after approximately 15 min. of operation (one more adjustment might be necessary).

Reg.-air flow always has to be controlled. Check the reg.-duct for allowing free blowing of the reg.-air. Check that the reg.-air duct is installed draining from the dehumidifier.



NOTE

Check the reg.-air duct for free blowing. Reg.-air duct must be installed with drain.

With the electrical settings and air flows adjusted, the dehumidifier will then operate automatically by means of the internal control- and safety functions – controlled by an external hygostat.

MAINTENANCE

Dehumidifier CR-B/BT only needs a minimum of maintenance. All components are service free, which means no lubrication or adjustment.

Only three things should be checked under normal operation, and following the normal service interval for the nacelle/tower.

- Air filters should be replaced
- the rotation of the rotor should be checked
- the power consumption of the electric heater should be checked (check table for nominal value)

If the rotor rotates during operation, and the energy consumption of the electric heater shows app. the nominal value can be almost sure that the dehumidifier is operating at an optimum.

We nevertheless recommend some periodic verification of the entire dehumidifier, to see if all internal functions are OK and checking of cables to be well fixed.

TROUBLESHOOTING

1. If the dehumidifier does not start when electric connected, control the external fuse.
2. If the dehumidifier is not operating it is probably the external hygrostat which has broken. This is a normal situation when the desired humidity is obtained.

TO CHECK: Adjust the hygrostat for 20 %RH, and the dehumidifier should start operating. Adjust again for the desired humidity.



ACTION

Adjust the hygrostat for 20 %RH, and the dehumidifier should start operating.

Adjust again for the desired humidity.

3. If the desired humidity is not obtained, the problem can be the dehumidifier - or the other parts in the total installation (room tightness, hygrostat...). To verify this, check:
 - Rotation of rotor?
 - The dry air should be warmer than the inlet process air. If it is cold it could indicate that the rotor is not turning caused by broken drive belt or the motor has stopped.
 - By hand feel the temperature of the reg. outlet air and feel the airflow. The temperature is depending on the inlet conditions, but should be 40-60C. If it is cold and Ammeter shows 0A, the electric heater might be replaced.

SECTION 6 / SERVICE AND REPAIR

HOW TO SERVICE AND REPAIR THIS DEHUMIDIFIER

Service and maintenance work on this dehumidifier

Cotes designs its dehumidifier units so that they are as robust as possible, and only need a minimum of service and maintenance.

None of the components require lubrication or adjustment.

The only maintenance work you need to do is listed below.

Once a month

- Check or replace the filters for incoming air and regeneration air.
- Check that the fans are operating (by listening to check whether they are turning).

Access for service/repair

Remove the top of the cabinet through the four screws in the top. Separate the plug-in front of the dehumidifier by pulling the not fixed part. Separate the PE cables and wiring for the PTC heater from their terminals in the cabinet and the flexible hose connecting the inlet air box to the heat-box should be removed. Pull the complete rotor section including the fan up and out of the cabinet. All components are now accessible for repair or replacement. All parts are to be assembled again in the opposite order.

Replacing of fan

Once the top is off, the fan can be accessed directly. The rotor section might need to be removed to gain space for the replacing of the fan. Unscrew the fan bracket and lift up the fan. Unmount the fan from the bracket through the screws and remount the new fan before fastening the bracket inside the dehumidifier anew.

Replacing of rotor, drive belt, PTC-heater

Once the rotor section is lifted up, there is free access to all parts. Now the rotor and drive belt is free for removing. Unscrew the top screw of the bottom and top screw mounting the heating box and remove the box. The PTC heating element can now be replaced too.

Replacing of filters

Access to the filter are acquired by loosening the push-and-pull knob and removing the cover on the back of the dehumidifier. Once accessed the filter can be removed and replaced.



Service/repair work on this dehumidifier

Safety instructions

Before opening the dehumidifier, make sure that the electric current is switched off at the mains before you open the cover of the electrical box or the covers for the electric heater, process air fan and rotor.

The main switch should also be switched off or

You should never just turn off the power to the dehumidifier while it is running. The correct procedure is to switch the rotary switch to neutral position, after which the machine runs a cooling cycle before the regeneration air fan stops. Turning off the dehumidifier properly prevents any over-heating.



WARNING

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

SECTION 7 / FORMALITIES AND GENERAL/LEGAL INFO

WARRANTIES

Warranty conditions

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

Maintenance must have been carried out at intervals of six months or less. 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 authorised Cotes dealer.

LEGAL NOTICES

Terms

The information contained in this publication and the products and equipment described herein are subject to change at any time without prior notice.

Cotes A/S has no obligation to inform buyers of the products and equipment of such subsequent changes.

This publication may contain misprints. Cotes A/S is not liable for errors or omissions in this publication or for incidental or consequential damages in connection with the furnishing of or the use of this publication.

Cotes A/S is not liable for any loss or damages, including consequential damages caused by disregard of any advice or warnings in relation to safety in this publication.

This publication cannot be deemed to contain any express or implied warranties of any kind concerning the construction or the suitability of the products described or the fitness of the products for any particular purpose.

This publication is subject to the provisions and requirements laid down in Danish law.

Copyright

All copyright to this publication belongs to Cotes A/S.

All rights reserved. You are not allowed to photocopy, reproduce, adapt, modify, translate, display or transfer any part of this publication to any other media, without explicit prior written permission from Cotes A/S.

EU DECLARATION OF CONFORMITY

Cotes A/S
Ndr. Ringgade 70C
DK-4200 Slagelse
www.cotes.com
info@cotes.com
VAT no. 15 20 03 32



Declares at its own liability that the following models of Cotes adsorption dehumidifiers:

CR100, CR150, CR200, CR300, CR600, CR750, CR800T, CR900, C30-0.9, C30-1.2, C30-1.9,
C30 LK modules, C30 HR modules, C35E-3.3, C35E-3.8, C35E-4.5, C35E-5.1, C35E-5.6, C35D-3.2,
C35D-4.5 CR1200, CR1200S, CR1400T, CR1500, CR2000, CR2500,
CR80B, CR80B-FC, CR80B-FCS, CR110B, CR110BT, CR240B, CR240BT,
CR240BS, CR290B, CR290BT, CR300B, CR300BT, CR180B,
CR200B, CR200BT, CR400B, CR400BT, CR400BS, CR110LK,
CR160LK, CR300LK, CR600LK.

covered by this declaration comply with the following directives:

Machinery Directive 2006/42/EC

Ecodesign 327/2011 directive 2009/125/EF as regards the eco-design fans driven by motors with input power and 125W to 500kW

EMC Directive 2004/108/EC

RoHS 2011/65/EC

and are manufactured in compliance with the following harmonised standards:

EN12100:2010

Safety of machinery – general principles for design - Risk assessment and risk reduction

EN 60204-1:2006+A1:2009+AC:2010

Safety of machinery – electrical equipment

Part 1: General requirements

EN 61000-6-3:2007/A1:2011/AC:2012

Electromagnetic compatibility (EMC) -- Part 6-3: Generic standards - Emission standard for industrial environments commercial and light-industrial environments

EN 61000-6-2:2005+Corr:2005

Electromagnetic compatibility (EMC) -- Part 6-2: Generic standards - Immunity for industrial environments

EN 61000-3-2:2014

Electromagnetic compatibility (EMC) -- Part 3-2: Limits – Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)

EN 61000-3-3:2013

Electromagnetic compatibility (EMC) — Part 3-2: Limits — Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)

Slagelse, Denmark 1 September 2015



Thomas Rønnow Olesen

CEO

Who to contact

Help when and where you need it

Contact Cotes in Denmark or your local dealer:

Cotes contact information:

Cotes A/S
Ndr. Ringgade 70C
4200 Slagelse
Denmark
+45 5819 6322
info@cotes.com
www.cotes.com