

Dehumidifier

EN

LTR 100 NEO



Comedes 

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Dear customer,

Thank you for buying the LTR 100 NEO from Comedes GmbH.

You have purchased a powerful dehumidifier, which has been developed in accordance with the latest technical standards. To ensure that your device offers you faithful service for a long time, please study these operating instructions in detail, especially the safety information.

If you still have any questions about the device after you have read the operating instructions, please do not hesitate to contact us:

E-mail address: service@comedes.com

If you give us your telephone number, we shall call you back free of charge.

We look forward to all customer feedback and would be delighted to hear from you.

Yours sincerely,



Philipp Thannhuber
Managing Director
Comedes GmbH

WARNING:

Be sure to read the instructions before using for the first time. Any errors made in following the safety information and instructions may result in an electric shock, fire and/or serious injury. Keep all the safety information and instructions in a safe place for future use.

Important:

Make sure that the power plug is removed from the socket outlet before opening the device. Electric shock can cause fatal injury. Have repairs carried out only by an authorized workshop.

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Safety information

General safety information

- Always disconnect the mains plug when the device is not in use and before cleaning or in the event of malfunctions! Never pull on the mains cable! **Risk of electric shock!**
- Never immerse the device in water or use it outdoors, as it must not be exposed to rain or other moisture! **Risk of electric shock!**
- Should the device ever get wet, immediately disconnect the mains plug! Afterwards, do not put the device back into operation, but have it checked by an authorised service centre first. This also applies if a power cord or the unit is damaged or if the unit has been dropped. **Risk of electric shock!**
- Never place the power cord or device on hot surfaces or near heat sources. Route the power cord so that it does not come into contact with hot or sharp-edged objects. **Risk of electric shock!**
- Do not bend the power cord or wrap it around the unit, as this may result in a cable break. **Risk of electric shock!**
- Do not use the device if you are on damp ground or if your hands or the device are wet. **Risk of electric shock!**
- Never open the unit and do not attempt to insert metal objects into the unit or to get inside. **Risk of electric shock!**
- Keep packaging films away from children - **danger of suffocation!**
- **Electrical appliances are not a toy for children!** Therefore, use and store the device out of the reach of children. Children do not recognize the danger that can arise when handling electrical devices. Do not let the power cable hang down so that it is not pulled.
- This device may be used by children over 8 years of age and by persons with reduced physical, sensory or mental abilities or lack of experience and knowledge if they have been supervised or instructed in the safe use of the device and understand the resulting hazards. Children are not allowed to play with the device. Cleaning and user maintenance must not be carried out by children without supervision.
- Repairs may only be carried out by authorised workshops. Improperly repaired devices pose a danger to the user.
- If the power cable is damaged, it may only be replaced by a specialist workshop designated by the manufacturer in order to avoid injury and accident hazards as well as damage to the device.
- Observe the national installation regulations and therefore only connect the device to a properly installed grounded socket outlet with a mains voltage as specified on the type plate.
- To avoid accidents, do not leave the unit unattended during operation.
- To avoid overloading, never connect several household appliances to the same socket outlet with earthing contact at the same time.

Device-related safety instructions

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- Never operate the device in a potentially explosive environment.
- Do not operate or set up the unit in an atmosphere containing sulphur, chlorine, salt or oil.
- Make sure that the unit is placed on a level, stable, non-slip and dry surface. Do not place the device directly against a wall or under a wall cabinet or similar. The device requires a free space of at least 30 cm at the top.
- Do not cover the device during operation. Ensure sufficient clearance and safety distance to walls, ceilings and other objects.
- The air intake and outlet openings must never be covered or blocked. Always keep sufficient space and clean the ventilation slots regularly to avoid clogging the openings.
- Do not insert any objects into the air intake and outlet openings or the unit. Also make sure that no loose objects such as curtains or even long hair, ties, etc. get into the ventilation slots, they could be sucked in by the air stream.
- The unit may only be transported upright; the condensate container must be emptied before transport. Do not transport the device when it is plugged into an earthed socket. Use the handle for transport.
- No objects may be placed on the device.
- If an extension cable is used, it must comply with the applicable safety regulations.
- Use only genuine accessories. The use of non-genuine accessories increases the risk of accidents. No liability is accepted in the event of accidents or damage with non-genuine accessories. The use of third-party accessories and any resulting damage to the equipment will void the warranty.
- Never use sharp or abrasive cleaning agents or sharp-edged objects for cleaning.
- Allow the unit and all accessories to cool to room temperature before cleaning.
- To avoid hazards, always disconnect the mains plug from the safety socket when not in use.
- Please note that in addition to switching off the device, unplug the mains plug from the safety socket in order to completely disconnect the device from the mains.

Intended use

The unit is intended exclusively for dehumidifying closed rooms.

In addition, the device is not intended for commercial use, but exclusively for use in private households. Using in office kitchens for employees, Hotels, guesthouses or agricultural areas is not provided.

Any other use or modification of the device is not in accordance with its intended use and is generally prohibited. No liability can be accepted for damage caused by improper use or incorrect operation.

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Operating information

The device is designed for a temperature range between 5 and 35°C. Below 5°C, the humidity tends to be very low, so you do not need to use an air dehumidifier. Above 35°C, the overheating protection may switch the unit off automatically. The device is not approved for operation outside the temperature range.

The dehumidifier heats the air so that it can dehumidify optimally. Therefore, the room temperature can rise by 1-2 degrees. This is quite normal and increases the efficiency of the device.

In order to work energetically favorably, the device switches off automatically when the set air humidity is reached. When the humidity rises again, the unit switches itself on again automatically.

When the water tank is full, the unit switches off automatically.

Technical Data

Product name:	Comedes LTR 100 NEO
Voltage:	AC220-240V/50 Hz
Rating power:	200W
(30°C 80% Luftfeuchte)	
Power consumption:	1,2 A
Dehumidifying capacity:	12 l/ day
(30°C 80% humidity)	
Weight:	10 kg
Permissible operating temperature:	5-35°C
Refrigerant / Quantity:	R134a/115g
Refrigerant group:	L1
Size of water tank:	1,5 l
Noise:	≤ 45 dB(A)

Layout

Figure 1:

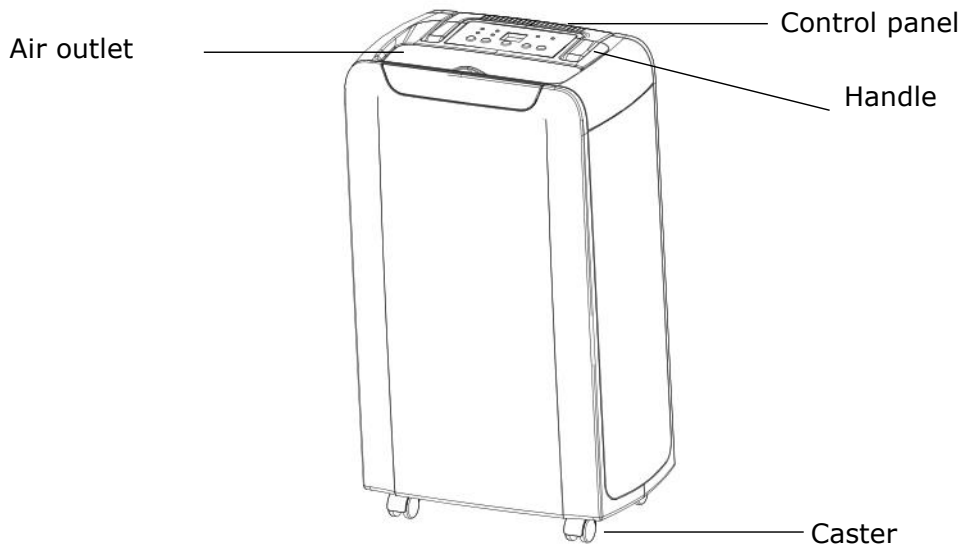
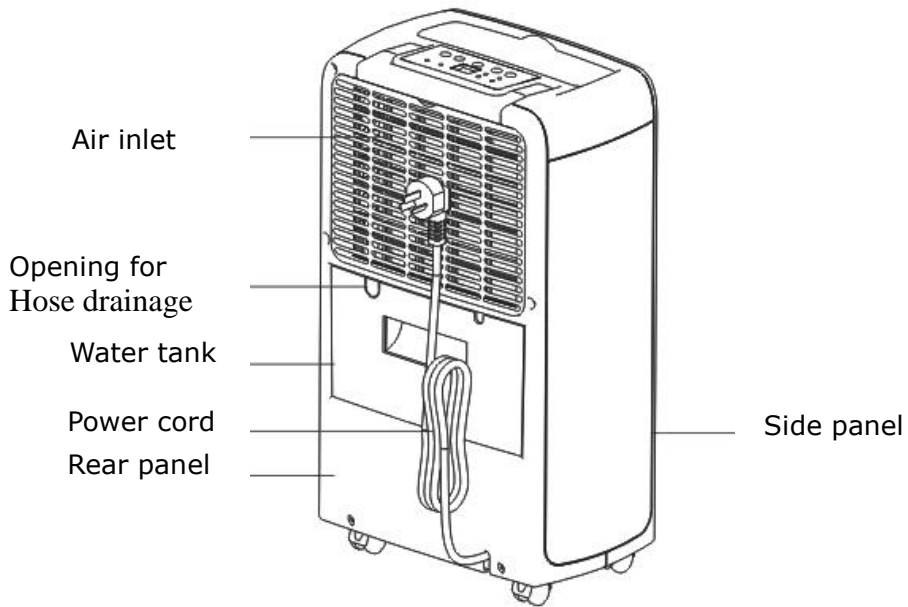
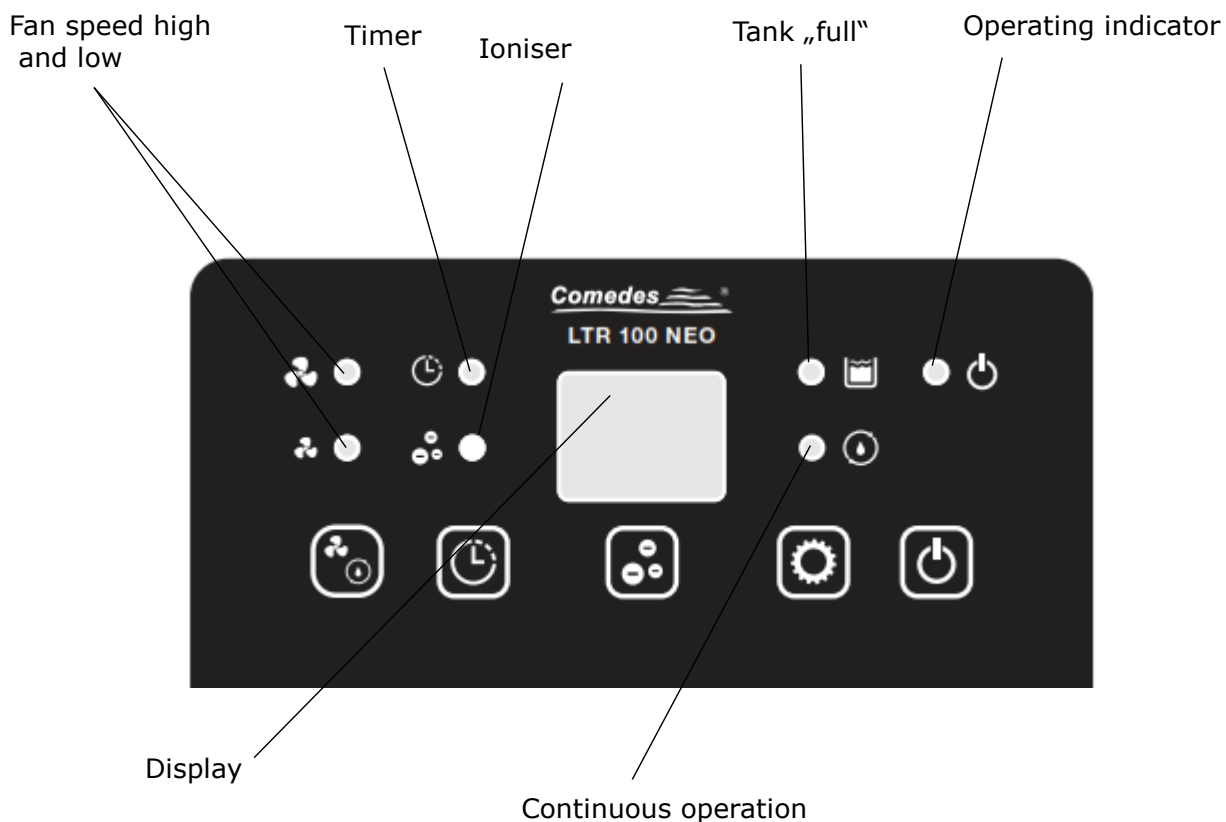


Figure 2:



Control panel

Figure 3: Signals



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Display:

The illuminated display shows the prevailing room humidity as soon as the unit is plugged in. During the setting of the timer and the target humidity, the selected values are displayed. When the setting is complete, the current room humidity is displayed again.

Setting up instructions

Remove all strips of adhesive tape which were used as transport braces. Make sure that the device is stood securely on a dry surface.

Ensure that the device cannot cause any water damage if water were to escape from water tank.

Before you start the device, always let it stand in its final position for at least 1 hour to allow the refrigerant to settle and ensure that there is no risk of damage to the compressor.

Make sure that the device is not exposed to direct sunlight.

Check that the float is correctly positioned and moves easily.

Make sure that the water tank is correctly positioned.

Make sure that the socket outlet is fitted with a residual current protective device circuitbreaker (earth-leakage circuit-breaker).

If you are unsure, whether this is the case, ask your electrician or use a personal protection plug (available from your DIY store).

To save power and to avoid potential danger, disconnect the device when it is not operated.

Before starting up

After unpacking the device, check it for completeness and possible transport damage - to avoid any hazards. If in doubt, do not use it, but contact our customer service. You will find the service address at the end of this manual.

Your device is packed to protect it from damage in transit.

- Carefully remove the device from its sales packaging.
- Remove all packaging parts.
- Clean the unit and all accessories from packaging dust residue as described in the chapter entitled "Maintenance".

Starting up

Check the cable for damage before you insert the power plug. The device may only be used if the power cable is in flawless condition. Plug in the power cable and switch the unit with the ON/OFF switch.

IMPORTANT: Always allow the device to run for at least 35 minutes before you switch it off, and never switch it on and off continuously in quick succession. Otherwise there is a risk of damage to the compressor.

When the product shuts down, please wait at least 3 minutes before moving the unit, so that all water can run into the water tank.

The higher the humidity in a room and the higher the temperature in that room, the more effectively the Comedes LTR 100 NEO can dehumidify the air.

The compressor therefore generates heat and warms up the air in the room. This is perfectly normal and is no cause for alarm.

ATTENTION: Always open the air outlet flap before starting the unit.

Note: Before first use, we recommend operating the device for 5-10 minutes with the window open in order to remove any production-related residues. Any odour that may occur is normal and disappears after a short time. This is not a malfunction of the device. Ensure adequate ventilation.

**On/Off switch:**

A beep will sound when you plug in the unit.

Press this On/Off switch to turn the unit on and press it again to turn the unit off.

EN**Humidity Setting:**

The device is equipped with a modern hygrostat (humidity controller) and switches off automatically when the desired humidity is reached in order to save energy. When the humidity in the room rises again, the Comedes LTR 100 NEO switches on itself again automatically. By pressing the Humidity Setting button repeatedly, the target humidity can be set as follows:

50% » 55% » 60% » 65% » 70% » 75% » 80% » 40% » 45% » 50%.

During operation, the current humidity is shown on the display.

**Timer:**


Press the timer button to start the timer function. You can set a time of 1-24 hours by pressing repeatedly. If the timer is activated, this is indicated by the corresponding LED.

If you activate the timer during operation, the device switches off after the set time.

If you activate the timer while the device is in standby mode, the device starts automatically after the set time has elapsed.

To turn off the timer, press the button repeatedly until "00" is displayed.

**Speed:**

Press this button to switch between the two fan stages and continuous operation (). In continuous operation, the unit runs continuously, without preset target air humidity, until the water tank is full.

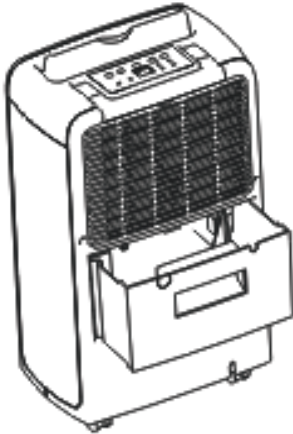
The currently selected fan speed is indicated by the corresponding LED.

**Ioniser:**

With this button the ionizer can be switched on or off. If the ionizer is activated, this is indicated by the corresponding LED.

Empty the water tank:

After the water tank is full, the Comedes LTR 100 NEO switches off automatically and the tank "full" indicator (Fig. 3) lights up. You must empty the water tank to restart the LTR 100 NEO. Always switch off the unit first and disconnect the mains plug.



Grasp the water tank by the handle provided and pull it carefully backwards out of the device.

Empty the water tank into a sink or similar.
After emptying the tank, carefully reinsert it into the unit.

Attention:

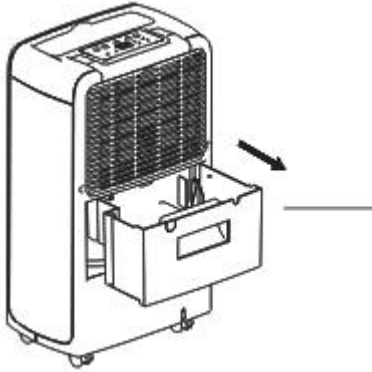
- To ensure correct operation of the device, the float must not be removed from the water tank.
- If the water tank is dirty, it should be cleaned. Use cold or warm water without additives. Additives or cleaning utensils such as detergents, steel wool, benzenes or other chemical cleaners are not suitable as they can damage the tank and cause leakage.

Hose drainage

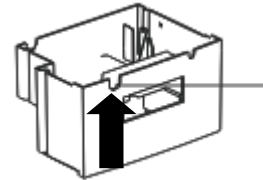
The Comedes LTR 100 NEO can also be operated with a drainage hose ($\varnothing 9.5\text{mm}$). To do this, remove the water tank and attach a drainage hose. To do this, proceed as follows:

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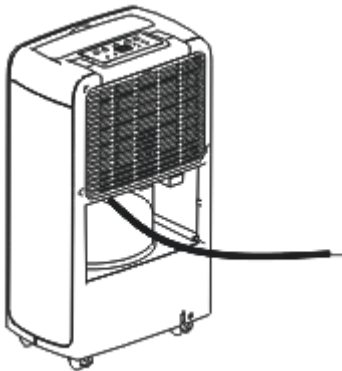
1. Remove the water tank.



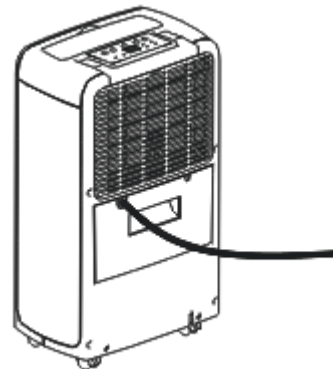
2. Carefully break the plastic seal of the drainage outlet from the water tank.



3. Attach the drainage hose to the drain of the drip tray.



4. Reinstall the water tank by passing the hose through the drainage outlet.



Attention:

- Make sure that the hose does not run any higher than the hose connection on the unit so that the water can drain off undisturbed.
- Make sure that the drainage hose is not bent or clogged. Check this regularly.

After each use and before attaching or removing accessories, the unit must be switched off and disconnected from the mains by disconnecting the mains plug from the mains socket. Allow the unit to cool to room temperature before cleaning and/or stowing it away.

Automatic defrosting system

The dehumidifier is equipped with a temperature-dependent defrosting function. If the room temperature is between 5°C and 12°C , the unit starts defrosting every 30 minutes. If the room temperature is between 13°C and 20°C , the unit starts defrosting every 45 minutes.

Recommendations for drying with the Comedes LTR 100 NEO

To achieve the best possible dehumidifying results with the LTR 100 NEO while using as little energy as possible, we offer the following tips: Since this manual can only offer a limited amount of advice, we would recommend that you consult the more detailed information available at: www.luftentfeuchter-tipps.de



Basic principles of dehumidifying with the Comedes LTR 100 NEO

The dehumidifier works in a similar way to a refrigerator with a refrigeration machine. This generates a cold surface (on the vaporizer) on which water condenses. Depending on the humidity and ambient temperature the water condenses at dew point temperature. To enable the dehumidifier to dehumidify, the temperature of the cold surface must be below the dew point temperature. Given that the water would freeze if the dew point temperature was negative, the dehumidifier only works if the dew point temperature is positive. To ensure that this is the case, the dehumidifier is equipped with a modern, temperature-controlled automatic defroster, which maintains the vaporizer temperature between approximately 0°C and 5°C. For effective dehumidifying the dew point temperature for the LTR 100 NEO needs to be above 5°C. If the dew point temperature is below this level, dehumidifying will either not be possible at all or only very inefficiently. Refer to the following table to determine the dew point temperature in your particular case. Where dew point temperatures are too low it is advisable to turn on the heating. Gas radiant heaters are not suitable therefore.

Roomtemp.	RH in %															
	20%	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%
30°C	4,6	7,8	10,5	12,9	14,9	16,8	18,4	20	21,4	22,7	23,9	25,1	26,2	27,2	28,2	29,1
29°C	3,8	7,2	9,7	12	14	15,9	17,5	19	20,4	21,7	23	24,1	25,2	26,2	27,2	28,1
28°C	3	6,1	8,8	11,1	13,1	15	16,6	18,1	19,5	20,8	22	23,2	24,2	25,2	26,2	27,1
27°C	2,1	5,3	8	10,2	12,2	14,1	15,7	17,2	18,6	19,9	21,1	22,2	23,3	24,3	25,2	26,1
26°C	1,3	4,5	7,1	9,4	11,4	13,2	14,8	16,3	17,6	18,9	20,1	21,2	22,3	23,3	24,2	25,1
25°C	0,5	3,6	6,2	8,5	10,5	12,2	13,9	15,3	16,7	18	19,1	20,3	21,3	22,3	23,2	24,1
24°C	-0,3	2,8	5,4	7,6	9,6	11,3	12,9	14,4	15,8	17	18,2	19,3	20,3	21,3	22,3	23,1
23°C	1,1	1,9	4,5	6,7	8,7	10,4	12	13,5	14,8	16,1	17,2	18,3	19,4	20,3	21,3	22,2
22°C	-2	1,1	3,6	5,9	7,8	9,5	11,1	12,5	13,9	15,1	16,3	17,4	18,4	19,4	20,3	21,2
21°C	-2,8	0,2	2,8	5	6,9	8,6	10,2	11,6	12,9	14,2	15,3	16,4	17,4	18,4	19,3	20,2
20°C	-3,6	-0,3	1,9	4,1	6	7,7	9,3	10,7	12	13,2	14,4	15,4	16,4	17,4	18,3	19,2
19°C	-4,4	-1,4	1	3,2	5,1	6,8	8,3	9,8	11,1	12,3	13,4	14,5	15,5	16,4	17,3	18,2
18°C	-5,3	-2,3	0,2	2,3	4,2	5,9	7,4	8,8	10,1	11,3	12,5	13,5	14,5	15,4	16,3	17,2
17°C	-6,1	-3,1	-0,6	1,4	3,3	5	6,5	7,9	9,2	10,4	11,5	12,5	13,5	14,5	15,3	16,2
16°C	-6,9	-4	-1,4	0,5	2,4	4,1	5,6	7	8,2	9,4	10,5	11,6	12,6	13,5	14,4	15,2
15°C	-7,7	-4,8	-2,2	-0,3	1,5	3,2	4,7	6,1	7,3	8,5	9,6	10,6	11,6	12,5	13,4	14,2
14°C	-8,6	-5,7	-2,9	-1	0,6	2,3	3,7	5,1	6,4	7,5	8,6	9,6	10,6	11,5	12,4	13,2
13°C	-9,4	-6,5	-3,7	-1,9	-0,1	1,3	2,8	4,2	5,5	6,6	7,7	8,7	9,6	10,5	11,4	12,2
12°C	-10,2	-7,4	-4,5	-2,6	-1	0,4	1,9	3,2	4,5	5,7	6,7	7,7	8,7	9,6	10,4	11,2
11°C	-11,1	-8,2	-5,2	-3,4	-1,8	-0,4	1	2,3	3,5	4,7	5,8	6,7	7,7	8,6	9,4	10,2
10°C	-11,9	-9,1	-6	-4,2	-2,6	-1,2	0,1	1,4	2,6	3,7	4,8	5,8	6,7	7,6	8,4	9,2
8°C	-13,6	-10,8	-8,5	-6,5	-4,8	-3,2	-1,8	-0,5	0,67	1,8	2,83	3,82	4,77	5,66	6,48	7,32
6°C	-15,2	-12,5	-10,2	-8,3	-6,6	-4,49	-3,07	-2,1	-1,05	-0,08	0,85	1,86	2,72	3,62	4,48	5,38
4°C	-16,9	-14,2	-12	-10	-8,4	-6,11	-4,88	-3,69	-2,61	-1,79	-0,88	-0,09	0,78	1,62	2,44	3,2
2°C	-18,6	-15,9	-13,7	-11,8	-10,2	-7,77	-6,56	-5,43	-4,4	-3,16	-2,48	-1,77	-0,98	-0,26	0,47	1,2
0°C	-20,2	-17,6	-15,5	-13,6	-12	-10,5	-9,2	-7,9	-6,8	-5,8	-4,8	-3,9	-3	-2,2	-1,4	0,7

Drying to deal with problems with condensation damp

Condensation damp generally occurs in basements when moist air penetrates the basement in summer and condenses on the cold walls of the basement. We recommend that you dehumidify the basement, room by room, in continuous operation. To start, run the device in continuous operation mode until you see that the amount of water that you are emptying out of the tank each day starts to reduce. Then move the device to the next room. Once you have dried all the rooms in this way we recommend that you select a central location for the device and then run it in automatic mode. We recommend a humidity setting of around 50% to 60%. This method of dehumidifying is more efficient in energy terms than dehumidifying in automatic mode from the start, because if you do that, the device will switch on and off a lot.

Drying to deal with building defects or water damage

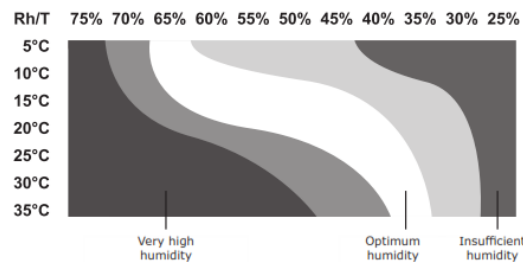
In the case of building defects or water damage, the cause needs to be eliminated first. Once this has been done the rooms can be dried using condensation driers such as the LTR 100 NEO.

In this case the dehumidifier is run in continuous operation mode. The ambient temperature needs to be at least 20°C (but not above 27°C). Additional heating can be provided by an electric heater if necessary. Gas radiant heaters are not suitable! To generate the air circulation required, fans can be used in the room. Please note that the insulation layer may also need to be dried, depending on the nature of the building defects. This will have to be undertaken by a specialist firm.



Recommended humidity levels for rooms

As a general rule this is dependent on the ambient temperature. The higher the temperature of the room, the lower the setting for the relative humidity needs to be, otherwise it will encourage the growth of fungus or mold in the room. A pleasant level of humidity is between 35% and 65% relative humidity, depending on the ambient temperature. The following diagram provides a point of reference for the optimum level of humidity at different ambient temperatures.



The diagram is based on the assumption that temperatures $\geq 20^\circ\text{C}$ are for living quarters and temperatures $\leq 20^\circ\text{C}$ are for basement quarters.

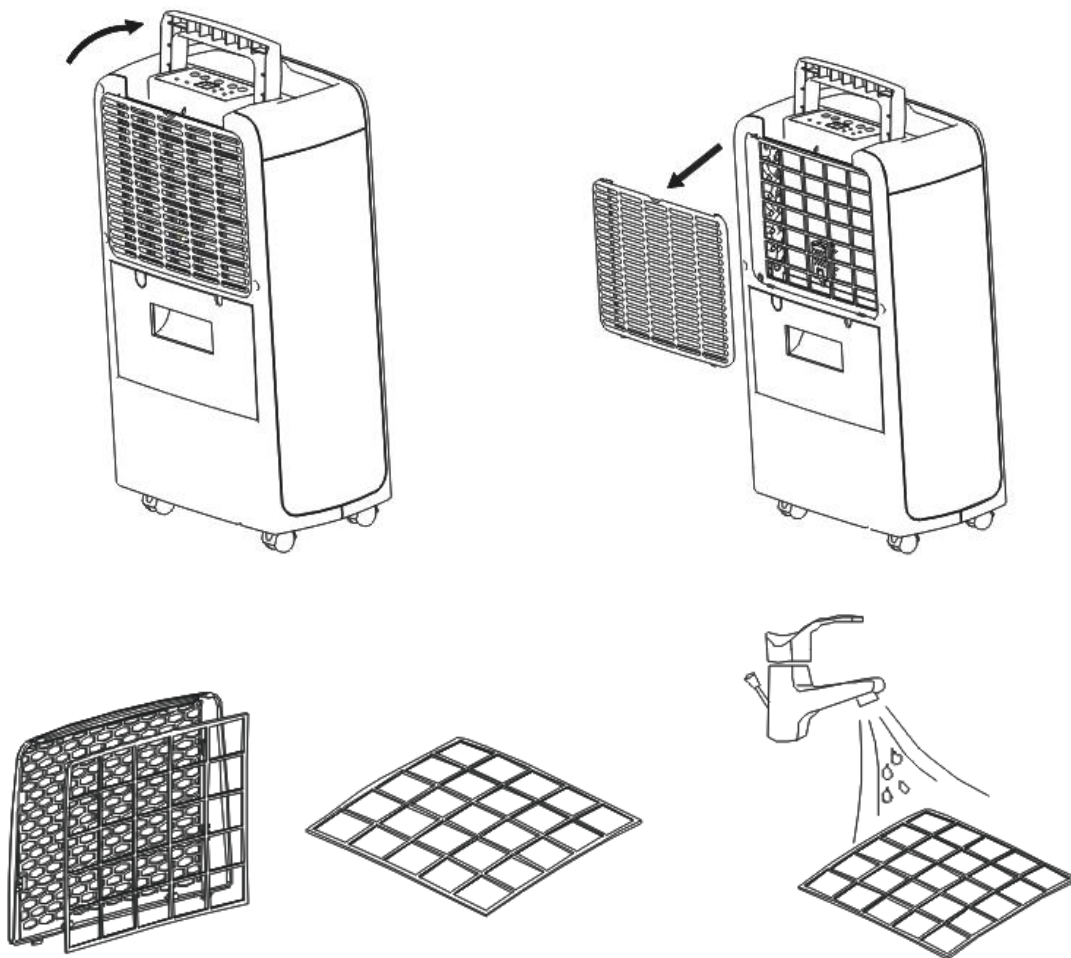
Maintenance

Always switch off the unit and disconnect the power plug before starting to clean/maintain the unit.

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- To maintain dehumidification efficiency, you should clean the filters at least twice a month. More often if necessary.
- The housing can be cleaned with a soft, dry cloth. Do not use any additives such as benzenes, alcohols or other chemical cleaning additives for cleaning. This can lead to damage or deformation of the surfaces.
- Carefully remove dust and dirt from the ventilation openings (air intake and air outlet openings) at regular intervals using a suitable, soft brush.
- Do not spray the device with water.
- The condensate container should be cleaned regularly for hygienic reasons. Use a mild detergent for cleaning and then dry the container thoroughly.

Removing and cleaning the dust filter



Check the drainage hose:

Check the hose used for hose drainage regularly for blockages and damage. If the hose is clogged or damaged, replace it with a new one.

Storage of the dehumidifier

If the dehumidifier is not used for a long period of time:

- 1) Switch and disconnect the device.
- 2) Empty the water tank completely and make sure that there is no more water in the unit.
- 3) Remove and clean the dust filters. Before reinstalling, make sure that the filters are completely dry.
- 4) Store the dehumidifier in a cool dry place. Keep the unit away from direct sunlight, high/low temperatures and high dust levels.

Frequently asked questions (FAQ)

For our latest operating instructions please go to: www.comedes.com

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The device does not start.

1. Is the device plugged in correctly?
2. Is the water tank positioned correctly?
3. Is the red lamp on?
4. Is the fuse burned out?
5. Is the room temperature above 35°C or below 5°C?
6. If the above points are ok, try again in 10 minutes.
7. If the device still does not work, please contact service@comedes.com
8. Is the timer function activated?

Inadequate dehumidifying results.

1. Is the dust filter soiled?
2. Is the air inlet or outlet vent blocked?
3. Is the temperature or humidity too low?

The device does not switch off in automatic mode.

1. Are the doors and windows closed?
2. Is there a device in the room which generates vapor or steam?
3. Is the room too large?

The device is very noisy.

1. Is the dust filter very dirty?
2. Does the unit stand on a firm, flat and suitable surface?
3. Does the device touch the room wall?
4. For tiled floors it is recommended to lay a piece of carpet underneath.

The fuse constantly burns out.

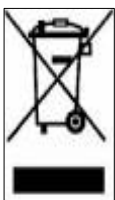
The RCD (earth-leakage circuit-breaker) constantly trips. Stop using the device and contact us at: service@comedes.com

The power cable or the plug get excessively warm.

Stop using the device and contact us at: service@comedes.com

There are objects or water in the device.

Stop using the device and contact us at: service@comedes.com



Don't dispose this product with household waste. This dehumidifier must be returned to a collection station for electronic and electrical equipment. For further information on these collection stations, please contact your local municipal administration, or the Comedes GmbH.



Comedes GmbH

Geschäftsführer:
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www.comedes.com