



PRODUCT MANUAL



**240 Volt
16 Litre Dehumidifier
Product Code:
DHP20**

Serial Number Range:

Year Of Manufacture:



KEEP THIS BOOKLET FOR FUTURE REFERENCE



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I. EN - INSTRUCTION MANUAL

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1 Device models

This operating manual covers various device models. Their functions and operation are however nearly identical To find out which model you have, refer to the type plate. For more information, see *Technical data*.

Model	Main features
DHP 20	Extendable handle, carrier handle, 2 castors

2 Product overview

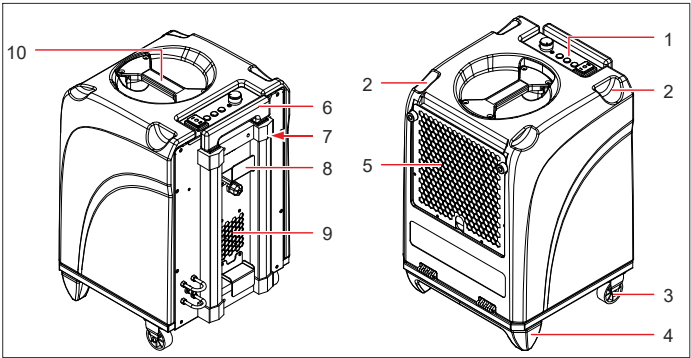


Illustration 1: Front and rear view

1	Control panel	2	Recess for stacking
3	Castor	4	Base
5	Inlet air grille with filter holder	6	Handle
7	Operating hours counter	8	Cable winder
9	Air outlet	10	Carry handle

Button/indicator	Description
Operating hours counter	Display of operating hours

3 Control panel

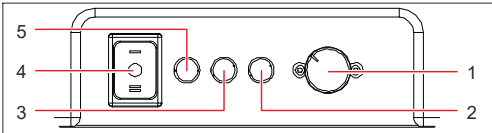


Illustration 2: Control panel

1	Hygrostat rotary selector	2	Red fault indicator
3	Yellow indicator	4	Device switch
5	Green indicator		

Button/indicator	Description
Device switch	Switching device ON/OFF: ■ Position [I]: Device continuously on ■ Position [II]: Starting pump and draining off condensate
Indicators	Operating status of device: ■ Green: Device running ■ Yellow: Device in defrosting mode ■ Red: Fault, device shut down
Hygrostat rotary selector	Setting desired target humidity When the set target humidity is reached, the device is automatically switched off. If the air humidity increases again, the device restarts automatically.

4 About this operating manual

This operating manual (hereinafter referred to as the manual) allows the operator to operate the humidifier (referred to as the device) safely and efficiently.

Reproduction of this document or parts thereof is only permitted with the explicit written consent of HEYLO GmbH (hereinafter referred to as the manufacturer).

NOTICE! Before using the device, please read this manual carefully. Keep this document for future reference.

Safety signs and instructions

DANGER! Warning regarding an imminent risk of injury

This safety instruction warns of an **immediate** dangerous situation which can lead to serious injury or death.

WARNING! Warning of a potential risk to human life.

This safety instruction warns of a **potentially** hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION! Warning of a potential risk to human life.

This safety instruction warns of a **potentially** hazardous situation which, if not avoided, could result in minor to moderate injury.

ATTENTION! Warning regarding damage to property

These safety warnings highlight potential risks of damage to the device.

Contact details of manufacturer

See rear cover.

5 Product description

The device dehumidifies the air in the room. In the process, condensate collects in the condensate tank from where it can be removed by means of a built-in pump to a collecting vessel or an on-site drain. The device is automatically defrosted when necessary.

Scope of delivery

- Dehumidifier
- Drain hose
- Filter pad
- Operating manual

Optional accessory

- Prod. no. 1306539 Exhaust air adapter for 1 hose (100 mm)
- Prod. no. 1306553 Exhaust air adapter for 3 hoses (3 x 50 mm)

Type plate

DANTHERM S.P.A. Via Gardesana 11, -37010-Pastrengo (VR), Italy Виа Гардесана 11, 37010 Пастренго (Верона), Италия			
			
Model		DHP 20	
SN Cod. 0110-0020-062 MM.YYYY			
RT 30°C RH 80%		16	l / 24 h л / 24 ч
			MPa МПа
1.0	2.5	2.5	
	30-90 %		375 m³/h·m³/ч
	5-32°C		21 kg·кг
		220-240 V-B 50 Hz-Гц 395 W-Вт 1,8A	
		R-1234yf 0,27 kg·кг GWP:4 CO ₂ Eq: 0,001	
			
MADE IN CHINA			

The type plate is attached to the device.

Intended use

The device is intended solely for dehumidifying air at atmospheric pressure in a commercial environment.

Intended use also includes compliance with the operating conditions (see *Operating conditions*).

Any use other than the specified is deemed improper. Improper use shall void all warranty cover.

The air dehumidifier must not be operated by children or by persons with limited physical, sensory or mental faculties.

Before operating the device, users must have read and understood this operating manual.

Reasonably foreseeable misuse

The device must not be used:

- In rooms/spaces that are not enclosed, or outdoors
- In rooms with a potentially explosive or aggressive atmosphere
- In rooms with air that has been treated with ozone, or that contains a high concentration or solvents or dust.
- At locations where the prescribed minimum safety distances cannot be maintained

6 Safety

General safety instructions

- The device must only be operated by persons who have been **properly instructed** in its operation.
- It is forbidden to make any modifications to device.

- Maintenance and troubleshooting tasks must be performed by suitably qualified persons only. Shut down the device and disconnect the mains plug.

WARNING! Risk of explosion, injury from burns or poisoning by refrigerant

The device is operated with an odourless and flammable refrigerant. If the device is operated incorrectly, there is a risk that the refrigeration causes explosion, fire, poisoning or other injury. The refrigerant is pressurised.

- Only operate the device in rooms larger than 4 m².
- Never drill holes into the device, and do not use welding equipment or cutting torches in its vicinity.
- Do not attempt to speed up defrosting by using implements.
- All work on the refrigeration circuit must be performed by staff of the manufacturer or an authorised technician.
- Avoid contact with the refrigerant.
- When handling the refrigerant, strictly adhere to the applicable safety regulations.

WARNING! Risk of electric shock

When carrying out work on electrically powered components, or if such components come into contact with water, there is a risk of serious or even fatal injury from electric shock.

- All work on the electrical equipment must be carried out by qualified electricians.
- Take suitable measures to prevent electrically powered components coming into contact with water.
- Before moving the device to a different location, disconnect the mains plug and empty the condensate tank.

WARNING! Risk of infection

The condensate may be contaminated with pathogens.

- Never drink the condensate.
- Regularly pump off the condensate. Avoid leaving condensate in the collecting vessel or in the condensate drain hose for a longer period of time.

Operating conditions

The device is intended for mobile or stationary use indoors, on construction sites, as well as in garages and storage rooms. The device operates efficiently:

- At temperatures between +5 °C and +32 °C and within a relative air humidity range of 40 % to 100 %.
Ideal room temperature range: 20 °C to 27 °C.
- In enclosed rooms where there is as little air exchange as possible.
- Placed as close as possible to the centre of the room.
- When the dry air discharged by the device is directed towards the humid part of the room.

Do not use the device under the following ambient conditions:

- Rooms with a potentially explosive atmosphere, or an atmosphere containing sulphur or salt.
- Atmospheres with high solvent or dust concentration.

7 Transport and installation

Transport

WARNING! Risk of injury from device toppling over

- Transport the device in an upright position and secure it against tipping or slipping.
- Place the device on a level, firm surface.

WARNING! Risk of injury during machine transport

- To transport the device, use the handle and the castors.
- For heavy loads, work in teams of two and use suitable lifting gear.

Procedure

1. Before transporting the device, empty the condensate tank.
2. Ensure that the drain hose is removed from the device and that the mains plug is disconnected.
3. Transport the device to the location of operation.
4. To transport heavy loads, work in teams of two and use suitable lifting gear.
5. When the device is at its location of operation, apply the castor brake.

NOTICE! Ensure that the air can circulate freely around and through the device. Do not cover the air inlet and outlet openings. The distance between the air outlet and the air filter must be minimum 1 m.

Unpacking

1. Remove the device from the cardboard box and place it on the ground.
2. Check the scope of delivery for completeness.

Report any transport damage or incomplete delivery to your dealer.

Adjusting handle

1. Release the locking mechanism of the handle, and pull out the handle to the desired length.

Connecting drain hose

For operation, the supplied drain hose must always be connected to the device.

ATTENTION! Poor device performance

- ➔ Do not kink the drain hose.
- ➔ Do not place any objects on the hose.

Procedure

1. Secure the quick-release coupling of the drain hose to the connector at the rear of the device.
2. Lead the drain hose away from the device and place the free end in an on-site drain opening or a sufficiently large collecting vessel (maximum level difference: 6 m).

Stacking devices

For operation or storage, it is permissible to combine maximum two devices in a stack.

1. Do to this, loosen and fully retract the handle of the device at the bottom.
2. Place the second device on the first one. Ensure that the bases of the second device slot into the recesses in the first one.

Connecting device to electric power mains

1. Ensure that the voltage of the power mains corresponds to that specified in *Technical data*.
2. Ensure that the mains socket is sufficiently protected (see  in *Technical data*).

3. The power socket to which the device is connected must be equipped with a RC circuit breaker. This is particularly important for operation in humid rooms and on construction sites.
4. Make sure that the mains socket is earthed and matches the power plug of the device.
5. Connect the power plug into the mains socket.

8 Device operation and control

Prior to switching on

1. Make sure that the device is not standing on a wet ground and ensure that it is in an upright and stable position.
2. Make sure that the condensate can drain off properly.
3. If necessary, record the readings of the operating hours counter.

NOTICE! Before starting the device for the first time, after transport and after prolonged storage, leave the device in its final position for approx. 15 minutes before switching it on.

Setting target humidity, switching on device and running it in continuous mode

1. Set the hygrostat to the desired target humidity.
2. Set the device switch to position [I].
 - ⇒ The green indicator is lit, indicating that the compressor is running.
 - ⇒ The device starts in continuous mode and runs until the set target humidity is reached or the automatic defrost function is triggered (yellow indicator lit).
In continuous mode, condensate is automatically pumped off.

- ⇒ The device switches off automatically as soon as the set target humidity is reached. The device remains however in ready mode. If the target humidity is again exceeded, the device is automatically restarted.

Pumping off condensate (before moving device to a different location)

- ✓ The device must **not** be in defrost mode (yellow indicator must be off).
1. Set the device switch to position [II].
 - ⇒ The condensate pump starts to pump the condensate through the drain hose into the drain or the on-site drain / collecting vessel.
 2. As soon as there is no condensate left in the tank, **quickly** set the switch to position [0], to prevent the pump from running dry.

Switching device off

1. Set the device switch to position [0].
 - ⇒ The indicator in the device switch is off and the device is shut down.

NOTICE! For planned prolonged stand-stills, pump off the condensate before shutting down the device.

9 Maintenance and care

WARNING! Risk of injury from inhaling harmful substances

- Depending on the location of operation, the components of the device may become contaminated with mould or other hazardous organisms or substances.
- When using compressed air to clean the device and/or the filter, work in a well-ventilated area, preferably outdoors.
- During cleaning, wear safety goggles and a breathing mask.

ATTENTION! Risk of damage to property

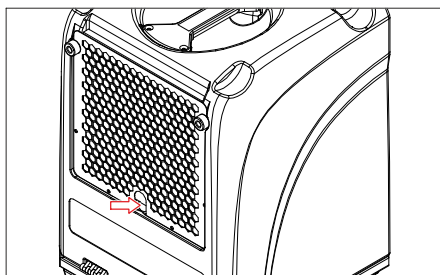
- Detergents can cause damage to surfaces. Use only mild detergents.
- Use only approved original spare parts.

Cleaning housing and filter

The cleaning intervals for the device depend on the actual operating conditions. Check and clean the device regularly.

If the device is used for drying at construction sites, it must be checked and cleaned after each use; the air filter must be replaced at least once a week.

1. Switch off the device at the device switch.
2. Disconnect the power plug.
3. Clean the housing with a damp, lint-free cloth and a mild detergent. The original gloss can be restored with polish.
4. Remove the filter holder by the recessed grip.



5. Take the filter from the housing.
For foam filters: Clean the filter thoroughly with a mild detergent and water. Let the filter dry.
6. Check the drain fitting and the connected drain hose for damage. Replace damaged components.
7. Insert the new or cleaned filter in the filter holder.

8. Mount the filter holder together with the filter in the same way as it was installed at the factory.

Cleaning evaporator

- ✓ The evaporator must be de-iced and dry.
1. Switch off the device at the device switch and disconnect the power plug.
 2. Remove the housing cover and place it on the ground.
 3. Clean the cooling coils from both sides with compressed air.

To remove greasy dirt from the cooling coils, proceed as follows:

1. Clean the condensate tray under the cooling coils as well as the drain hose.
2. Spray the cooling coils with a mild detergent solution, using a spray bottle.
3. Let the cleaned components dry.
4. Mount the covers in the same way as they were installed at the factory.

⇒ You have now cleaned the evaporator.

Cleaning pump sump

Depending on the way the device is used, deposits may form in the pump sump. To clean the pump sump, proceed as follows:

1. Switch off the device at the device switch and disconnect the power plug.
2. Remove the housing cover and place it on the ground.

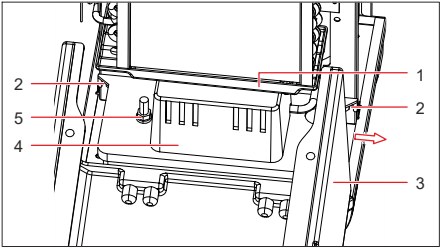


Illustration 3: Removing condensate tank

1	Condensate tray	2	Securing screws of condensate pump
3	Housing	4	Condensate pump
5	Fixture of condensate pump		

3. Disconnect the condensate hose from the condensate pump.
4. Loosen the two securing screws of the condensate pump and slide the pump to the side to remove it from the device. The connecting cable is sufficiently long to remain attached to the device.
5. Clean the condensate pump with a damp cloth and a mild detergent.
6. Replace the condensate pump in the device. Secure the condensate pump and push the condensate hose into the pump.

Spare parts and customer service

If you have any queries regarding the device, or wish to order spare parts, contact your dealer or HEYLO.

10 Troubleshooting

WARNING! Risk of poisoning by refrigerant, injury from burns, crushing or electric shock during troubleshooting

- All work in connection with troubleshooting and repairs must be carried out by authorised personnel or the manufacturer.
- In the event of a malfunction, switch off the device and secure it against inadvertent switching on.

- Before starting work, allow hot components to cool down.

Faults and malfunctions during operation

In the event of a fault or malfunction, refer to the table below. If necessary, contact the HEYLO Customer Service.

Fault/malfunction	Possible cause	Remedy
No function available in continuous or pump mode (all indicators off)	No or incorrect power supply	Check the power cord and mains connection
Device switch is in position ON (continuous mode), but device fails to start (all indicators off)	Overpressure protection tripped due to high ambient temperature	Wait until the device switches on automatically (approx. 5-15 min)
Fan running but there is no condensate	Humidity or temperature in room too low	Check the indoor climate values using a thermo-hygrometer
	Filter clogged	Check filter and clean, if necessary
	Refrigeration system defective (in this case, evaporator does not become cold)	Contact the manufacturer
Device is noisy and vibrates, condensate escapes	Device is not in level and upright position	Check the operating conditions, particularly the installation site
Device heats up, makes a lot of noise and dehumidifies poorly	Insufficient air circulation; function only available when housing is closed	Ensure that the air can circulate freely; clean evaporator and filter
Water escaping from device	Leak in condensate system	Run condensate pump test with water and locate leak
Red indicator lit	Pump runs dry	Check condensate pump and drain hose for dirt/blockage

Table 1: Troubleshooting table

11 Repair

During the warranty period, all repairs must be performed by persons authorised by the manufacturer.

After the warranty period has elapsed, certain repair can be carried out by the device owner, provided he or she has the necessary skills. Such repairs are not covered by the manufacturer's warranty.

If you have any queries concerning the repair of your device, contact your dealer or HEYLO Customer Service.

12 Decommissioning, storage and disposal

Decommissioning

1. Pump out the condensate.
2. Switch off the device at the device switch and disconnect the power plug.
3. Clean the device (see *Maintenance and cleaning*).
4. Disconnect all incoming and outgoing lines (discharge and power supply lines).
5. Package the device so that it is protected against moisture and dust.

Storage

CAUTION! Risk of injury from device toppling over

- Do not stack more than two devices one on top of the other.
- Secure devices against toppling over.

Procedure

Store the device at a temperature between 5 °C and +40 °C.

Disposal

CAUTION! Risk of damage to the environment from hazardous substances

- Dismantle the device and recycle or dispose of the materials according to the applicable statutory regulations.
- For the disposal of auxiliary materials and consumables, observe the information in the safety data sheets and the applicable statutory regulations.



Do not dispose of the device as household waste.

13 EC Declaration of Conformity

EC Declaration of Conformity in accordance with Low Voltage Directive 2014/35/EC Annex IV			
Manufacturer: DANTHERM S.p.A		Via Gardesana 11	37010- Pastrengo (VR), ITALY
Product: Dehumidifier		Type: DHP 20	
We herewith declare that the machine conforms to all relevant requirements of the following EU Directives:			
■ 2014/35/EU Low Voltage Directive			
■ 2014/30/EU EMC Directive			
■ 2011/65/EU RoHS Directive			
The following harmonised standards have been applied:			
EN 60335-1	EN 60335-2-40	EN 55014-1:2017	EN 55014-2:2015
Pastrengo, 2022			
		Stefano Verani — Member of the Board	

Technical Data

Model	DHP 20
Article-no.	0110-0020-062
	230 V / 50 Hz
W max.	395 W
 min.	10 A
	60 dB(A) (3 m)
 H/W/L	490 / 330 / 360 mm
	21 kg
	R1234YF / 0,27 kg
	+ 5 °C — + 32 °C
	375 m³/h
 30 °C / 80 %	16 l / 24 h
 20 °C / 60 %	4,7 l / 24 h



Recycling



ENVIRONMENTAL PROTECTION: Please recycle any unwanted materials as opposed to disposing them as general waste. It is recommended the original is retained and used to store the product when not in use for prolonged periods of time. If this is not applicable ensure the materials are sorted and recycled in accordance with local regulations



SPECIFICATION CHANGE: It is our policy to continually improve products to ensure these meet the rigours of the industry we serve. Therefore, as such we reserve the right to alter specifications, data, components & parts without prior notice.

WARRANTY: Please refer to the manufactures terms & conditions

IMPORTANT: No liability will be accepted for the incorrect use of this product.

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