



Operating Instructions

Hold-o-mat®



HUGENTOBLER
Kochsysteme HG 3000®



Congratulations!

By choosing the new Hold-o-mat, you now own the new stay-warm cupboard which has been developed from years of practical experience for professionals.

Enjoy the unique advantages that only the Hold-o-mat can offer, such as precision temperature control of $\pm 2^{\circ}\text{C}$, and efficient dehumidification.

Great emphasis has been put on simple operation, so that you can put the unit into operation quickly and efficiently.

However, if there are any unclear points, please contact your nearest specialist supplier.

We hope you will enjoy using your



product.

These instructions contain the information needed for the unit to be used correctly, operated safely, and maintained properly.

As with all electrical appliances special care must be taken to avoid injuries, burns or damage to the unit.

Please study these instructions before using the unit and observe the safety notes.

People who have not read the operating instructions should not use the unit.



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Introduction:

These operating instructions cannot take account of all possible applications. For further information, or if problems arise that are not sufficiently covered in these instructions, please consult your local specialist supplier or contact us directly. We are only too pleased to be of assistance.

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Safety Precautions:

General Safety

Anyone who is involved in the setting up, use and maintenance Instruction of the Hold-o-mat stay-warm cupboard must have read and understood all the operating instructions, especially the «Safety Precautions» section.

This stay-warm cupboard has been manufactured and tested in accordance with the applicable standards. When using electrical equipment, a number of basic safety precautions must be taken in order to avoid possible injuries and damage. Therefore, please read these instructions carefully and store them in a safe place.

We accept no liability for accidents and damage arising from failure to observe these operating instructions.

Warning Triangle



All the safety notes in these operating instructions give users advance warning about possible dangers. These particular points of interest for users are indicated by a warning triangle. Such notes must be read and acted on by the user.

Warning: magnetic field



Do not allow magnetic data carriers such as diskettes, credit cards, cheque cards, ID cards with magnetic strips, magnetic tapes or watches to come within 0.5 m of the unit.

Correct use warming food

and The Hold-o-mat stay-warm cupboard is designed solely for employment.

Never use the unit to heat chemicals or other materials. This could lead to the build up of poisonous or explosive gases.

Never use the unit for drying textiles, paper or similar materials. There is a danger of melting or burning.

Do not use the unit for storing crockery or cook books, either in or on the unit.

The unit is designed for use in large kitchens such as in restaurants or hotels, as well as commercial premises such as bakeries and butchers shops.

The unit is not designed for domestic use; for use in areas where exceptional circumstances prevail such as corrosive or explosive atmospheres (dust, steam, gas); for industrial use; or for the mass production of food.

**Notice to operators**

People who are not familiar with the operating instructions such as children, must not use the unit, unless supervised by trained staff. Persons with active physical aids (such as heart pacemakers) are not permitted to operate the unit. The operator must ensure that all other persons with active physical aids (such as heart pacemakers) observe a safety distance of at least 0.5 m from the unit.

Electrical supply, power cable

Electricity can be lethal! Improper operation of the unit can cause fire. For your own safety and the safety of others, please follow the safety precautions precisely as outlined in these instructions.

Never touch live components. This could cause an electric shock which can lead to serious injury or even death.

Only connect the unit to alternating current of 230V/50Hz. The plug must have a minimum fuse rating of 10A.

Never operate the unit with a defective power cable. Get a qualified electrician to replace damaged plugs and cables immediately.

Do not run the power cable around corners or sharp edges and ensure that the power cable cannot be crushed.

Never pull the unit by the power cable. Never pull the plug from the socket with wet hands.

Protect the power cable from oil and never rest it on hot objects.

The three-pin plug must not be replaced by a two-pin one.

Location

Install the unit on a sturdy surface and make sure that all the unit's openings are always freely accessible to ensure adequate air circulation.

Before use

Do not use if the unit is damaged or faulty.

Suitable containers

1/1 trays and grills made of chrome nickel steel (CNS)
65 mm 1/1 Gastronorm containers (3 pcs.) in conformance with EN 631 made of CNS
100 mm 1/1 Gastronorm containers (2 pcs.) in conformance with EN 631 made of CNS

Unsuitable containers

Plastic, synthetic and other non-heat resistant containers.

Maintenance

Cleaning: Remove the plug and allow the unit to cool.

Repairs: If faulty or defective, remove the plug from the socket immediately. Never use a damaged unit. Please note that the outside of the unit must not be sprayed with excessive amounts of water or other liquids.



Repairs must only be carried out by authorised specialist electricians or by our repair service.

Package Contents:

The package contains: 1 unit, 2 side rails, 1 set of operating instructions, 2 power cables (1x EU/1x CH). Check the package contents. If parts are missing return immediately to your supplier. The product has been supplied to you in cardboard packaging. Dispose of the packaging properly or return it to your supplier.

Damage in Transit

Check to unit for visible signs of damage. Do not use the unit if defective. Report the damage immediately to your supplier.

Placement Requirements:

The Hold-o-mat can be used in many different parts of the kitchen, preferably in a central location, not in a remote corner. Thanks to its ease of installation (no water, drainage or air extraction connections), the unit can be placed anywhere. Ensure, however, that the power supply is 230V/ 50 Hz. If the Hold-o-mat is built-in, sufficient cool air should be allowed to circulate.

The Hold-o-mat does not have to be tied to one location. It can be used in a variety of places such as the kitchen, lounge, and for parties etc.

If the unit is permanently installed in one place and cannot be disconnected from the mains by a switch, the plug on the power cable must remain accessible.



- Place the unit on sturdy surface.
- Ambient temperature + 10 ° C to + 40° C. Do not place the unit next to or on top of hot surfaces (radiators or hotplates): there is a danger of melting, fire or short circuit.
- Never bring the unit into contact with water or other liquids as there is a danger of short-circuiting
- To ensure adequate air circulation, all sides of the unit must be kept a minimum of 10 mm from walls and other objects.



Setting Up:

Customer service instructions

Do not allow magnetic data carriers such as diskettes, credit cards, cheque cards, ID cards with magnetic strips, magnetic tapes or watches to come within 0.5 m of the unit.

Warning: magnetic field



Customer service personnel with active physical aids (such as heart pacemakers) must observe a safety distance of at least 0.5 m from the unit. The customer service operator must ensure that all other persons with active physical aids (such as heart pacemakers) observe a safety distance of at least 0.5 m from the unit.

Rehinging the door

The door can be easily rehinged within 10 to 15 minutes. Because the unit casing has to be opened for this purpose, current-carrying parts will be exposed. The door may only be rehinged by specialist personnel (qualified electrician, service fitter, Hugentobler AG authorised sales person), and only in accordance with the customer service instruction provided for this purpose.

Withdraw the mains plug from the socket. Withdraw the plug from the equipment socket of the unit controller. Store the power cable where it is inaccessible to other persons for the duration of the customer service work. Remove the two lower hinge screws and unhinge the door. Remove the screw on the opposite side which holds the casing in place at the bottom front. At the rear of the unit, remove the six screws attaching the housing to the rear wall.

Slide the casing towards the rear and at the front of the unit press the main insulation slightly backwards in order to gain access to the two earth plates on which the four magnets are located. Dismantle the two earth plates and fit them on the opposite side. Slide the main insulation forwards again and slide the casing into the front panel.

Securely tighten all six screws on the rear panel. Securely tighten the screw which holds the casing in position at the bottom front. Unscrew the upper hinge pins and fit them on the opposite side. On the side of the door on which the door hinge sleeves are fitted, remove the cover caps located on the inside of the door. Remove the cover caps on the narrow side of the door. Lever the door hinge sleeves out of the holes using a suitable slotted screwdriver and fit them on the opposite side. Refit the cover caps on the narrow side and the inside of the door. The door must not be fitted upside down, as in this case the dehumidification vent would no longer be in the optimum position. Therefore, the door handle must also be repositioned. To do this, dismantle the door handle and fit it on the opposite side.

Rehinge the door on the upper door hinge pin and secure it by firmly tightening the lower door hinge.

Power connection

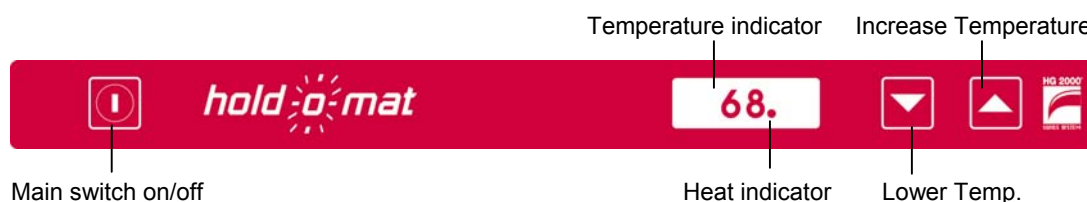
Connect the power cable to a socket with a 230 V/ 50 Hz supply.

Cleaning

Before using for the first time, it is imperative that the white protective film be removed. In addition, we recommend that the unit be dusted inside and out, with a damp cloth.



Controls:



Operation:



Improper operation can cause fire. For your own and other's safety, please follow the safety notices in these instructions precisely.

Switching on

Press the button.



Operating

Use the  or  buttons to set the desired temperature. The indicator always shows the actual temperature. By pushing an arrow button once, the desired temperature is displayed for two seconds. Then the indicator returns to showing the actual temperature. By pressing the buttons again while the desired temperature is displayed, the desired temperature can be increased or decreased.

Desired Temperature

Pressing both buttons together   automatically sets the **most important** temperature of 68 degrees.

The desired temperature is reached within 20 to 40 minutes, depending on what temperature has been chosen. The Hold-o-mat is designed to respond to this slowly, but this ensures that the desired temperature is maintained within a +/- 2° C tolerance.

The warming up time can be shortened by setting a higher temperature than actually required. Do not forget, however, to lower the temperature in time (about 6 –10°C below the desired temperature), otherwise the unit will get too warm. If the Hold-o-mat exceeds the desired temperature by 5° C or more, the indicator flashes thus warning kitchen staff. To cool the unit slowly, leave the door open slightly longer. (Thanks to its excellent insulation this takes somewhat longer than with other units.)



The desired temperature can be set to the degree in a range from 50°C to 120° C. The PT500 and excellent electronics which approach the desired temperature slowly step by step (a timing pulse system), guarantee +/- 2° C accuracy.

Switching off



After use the button is used to switch the Hold-o-mat off. Please do not forget to clean the unit after use as outlined in the section on «Cleaning and care».

Practical Tips:

General use

Thanks to very precise temperature control and the special dehumidification system the Hold-o-mat can keep food warm, especially meat and bakery products, over long periods in prime condition while improving quality. Naturally vegetables and other side dishes can also be kept warm.

Meat

The optimal temperature for keeping meat warm over a period of hours is about 5 –10 degrees above the desired core temperature (max. 5 hours). If different cuts of meats are to be get warm together such as red and white, large sides and small off cuts, set a temperature of between 68° to 72°C.

With every hour that the meat is kept warm in the Hold-o-mat it becomes more tender. Please note, however, that the meat should not be stored for too long, as this can adversely affects its taste. Best results are obtained from using relatively fresh meat kept warm for under five hours.

Ideally, meat should be inserted into the Hold-o-mat on grilles. Meat juices can be collected in a tray on the interior floor. This way, precise regular temperature is guaranteed and the meat does not lie in its own juices as on a tray. The dried-on residue on the tray is easier to remove than if a tray is used on every level.

Cook & Hold

Thanks to the 120°C setting, this cooking method is perfectly practicable with the Hold-o-mat. Keep to the following rules and obtain further information from a specialist.



	Searing: Sear the meat on the grill, or in the pan. Cook: Cook the meat at 120°C for at least 10 minutes in the pre-heated Hold-o-mat. Cook Through: Set the temperature 20°C higher than the desired core temperature. Hold: After reaching the desired core temperature, set the Hold-o-mat 5° C higher than the core temperature. The meat can now be kept for hours at the optimum holding temperature.
Dehumidifier	The humidity level inside the unit can be regulated precisely and visibly by means of the 3-stage dehumidifier on the door. Normally the dehumidifier is closed for vegetables and cooking au gratin, and completely open for bakery products, deep-fried and breaded foods (min. 80° C). The half-open setting for other foods, can be used as you see fit. Please direct all questions to your specialist.
Temperature regulation	Please note that opening the door frequently can lower the effective actual temperature, and thus the temperature of the food. (Due to the in-built time lag, the indicator does not react so quickly). If this reaction is noticed, increase the desired temperature a few degrees. If an over-warm product is put directly into the Hold-o-mat from a combi steamer, the actual temperature can rise dangerously depending on the product. (The indicator flashes, if the temperature is 5° C too high.) Please correct this normal occurrence by leaving the door open slightly longer, or preferably leave the meat to stand for a while outside the unit and put it in when it reaches the right temperature.
Accessories	It is best to warm up the Hold-o-mat with the requisite grilles and dishes to avoid large changes in temperature. Only load the unit with warm foods using grilles or trays on the rails supplied.
Cold or frozen food	Loading with cold or frozen food can lead trigger off the heat cutout.
Interior floor	Using the interior floor as a work surface can lead to the food overheating (use the lowest level).
Temperature sensor	Allowing food to touch the temperature sensor (set into the roof of the interior) can lead to false air temperature readings.
	
	
	
	
	
	



Always remember that your Hold-o-mat distributor is always there to answer any questions that may arise. As a last resort, do not hesitate to consult the developer and manufacturer whose details you will find on the identification plate and who provides a world-wide training network entitled «**Cooking Systems HG 3000®**».

Troubleshooting:

A few tips if the product does not turn out as desired:

Problem	Cause	Possible solution
The product over-cooks and becomes dry	Desired temperature too high above core temperature.	Set correct desired temperature or allow meat that is too hot to cool outside the oven first.
Although the product is good it is not warm enough	Desired temperature too low below core temperature.	Set the correct desired temperature or, if the door is opened frequently, deliberately adjust the desired temperature upwards.
The product is too dry or too damp.	The moisture content in the chamber is not correct.	Use the dehumidifier on the door to adjust the humidity to suit the product.
The taste, consistency or general quality of the product is not satisfactory.	Basic problem in preparation or incorrect conception of finished product after warming up.	Contact your nearest specialist and look for possible answers.



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In case of technical problems:

Problem

Possible solution

The unit does not switch on, or the indicator does not light

The power supply has been cut off. Please check the building's fusing, the fusing on the unit (below the power cable socket at the back of the unit) and both plugs on the power cable.

The actual temperature keeps falling, although it should rise.

A fault has occurred due to a power fluctuation and the control system is no longer sending signals to generate heat.
Isolate the unit from the power supply for a few minutes and then switch on again. If after switching on again the heating indicator is not visible after one minute, repeat the whole procedure.

The heating indicator lights but the actual temperature decreases or the unit remains cold.

The overheating cut out has been triggered (the unit has been loaded with cold or frozen food or the control system is defective).

Reset procedure:



1. Switch off the unit using the button and disconnect from the power supply.
2. Remove the plug near the heat cut off sticker on the rear end of the unit.
3. Push the reset button on the cut off with a screwdriver.
4. Replace the plug in the rear end.
5. Connect to the power supply and switch on.
6. If the overheating cut out engages again, consult your nearest service centre.

If none of these possible solutions has produced an improvement, consult your local service centre, electrician or specialist retailer.



Maintenance:

Cleaning



1. Switch off the unit with the button  and disconnect from the power supply.
2. Take the trays, grilles and dishes out of the Hold-o-mat and clean separately.
3. Also tilt the side rails downwards into the centre of the cooking area and pull out towards the front.
4. Clean the whole interior and exterior with a mild fat dissolver and leave to dry. Do not use irritating, abrasive or poisonous cleaning materials.
5. If required, clean the air inlet. If dirty, the dehumidifier built into the door can be removed by pulling it forwards, and washed separately.
If necessary, the door seal can also be removed, cleaned and reattached. (Important: **Never** use the unit without the door seal.)
6. After every thorough clean-up, heat the unit quickly to 120°C. This 120°C setting allows the unit to be sterilised and any microorganisms are killed off. Please ensure that the dehumidifier on the door is closed, as high humidity makes the sterilisation more effective .
7. Please note that the exterior of the unit must not be sprayed with water or other liquids. High-pressure cleaners or steamcleaners may not be used.



Maintenance

The Hold-o-mat has no special regular service requirements. However, please ensure that it is functioning properly and get in contact with the service centre promptly if any changes are noticed.

Overhaul and repair:

The technical side is problem-free, allowing any authorised electrician using original spare parts to carry out all repairs. Of course the specialist service centre is at your service, however, in some cases it may be cheaper if you first consider getting the repair done locally.



Guarantee:

We guarantee the Hold-o-mat for **one year**

We do not accept responsibility for damage caused by:

- incorrect operation
- using the product for the wrong purposes
- improper repairs
- or if spare parts or accessories not supplied by the manufacturer are used or built in.

In all these cases, the guarantee is void.

The Guarantee is only valid if original spare parts are used.

Unit Information:

Model:	Hold-o-mat
Product No.:	673
Power supply:	230 V, 50 Hz, 1050W
Fuse:	10 A
Storage Temp.:	0° C - +50°C
Ambient Temp.:	+10° C - +40°C
Temperature range:	+20°C - +120°C
Size:	H 343 x W 415 x D 675 mm
Weight:	24 kg
Average power consumption:	ca. 300 W/h
Equivalent noise level:	70 dB(A)

Safety gap from walls and other equipment at least 10 mm.

Please fill in the missing information:

Model:

Year of manufact.:

Serial No.:

Power supply: 230V, 50 Hz, 1050W

Keep these instruction safely. Pass them on to any other users with the unit.



Disposal:

At the end of its life the unit should be disposed of, in accordance with national legislation. It is recommended that a specialist disposal firm be contacted.

Supplement:

Circuit diagram:

Fuse:



Sicherung
fusible
fusibile
fuse

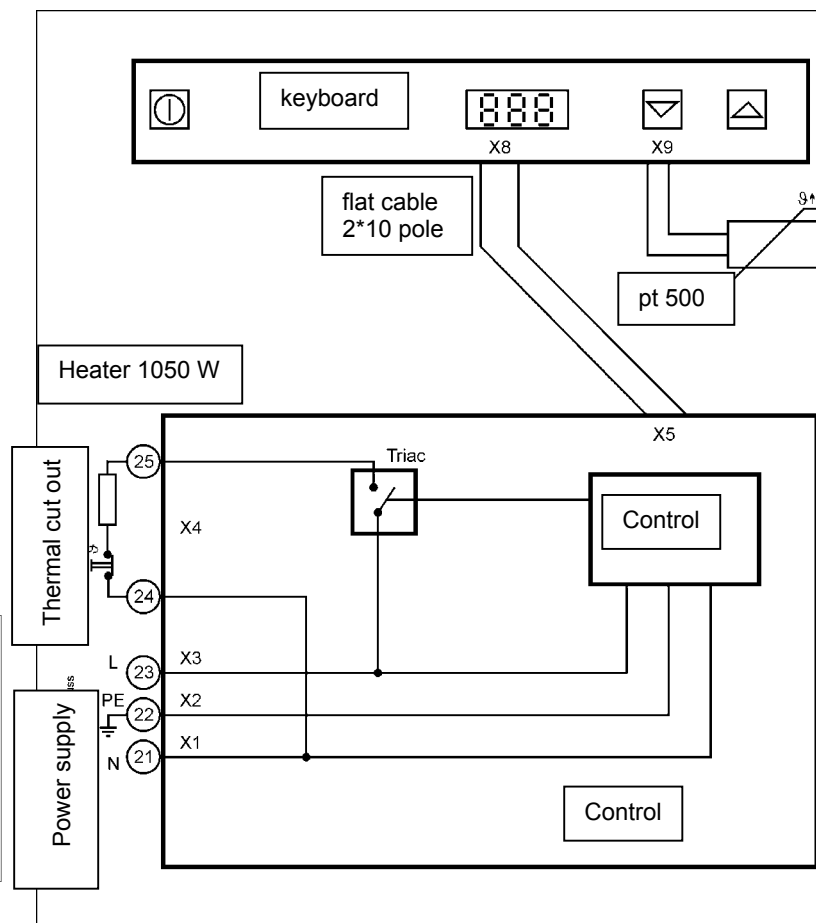
60-20-383

Thermal cut out:



Thermo Schalter
interrupteur thermique
interruttore termico
thermal switch

60-20-384



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