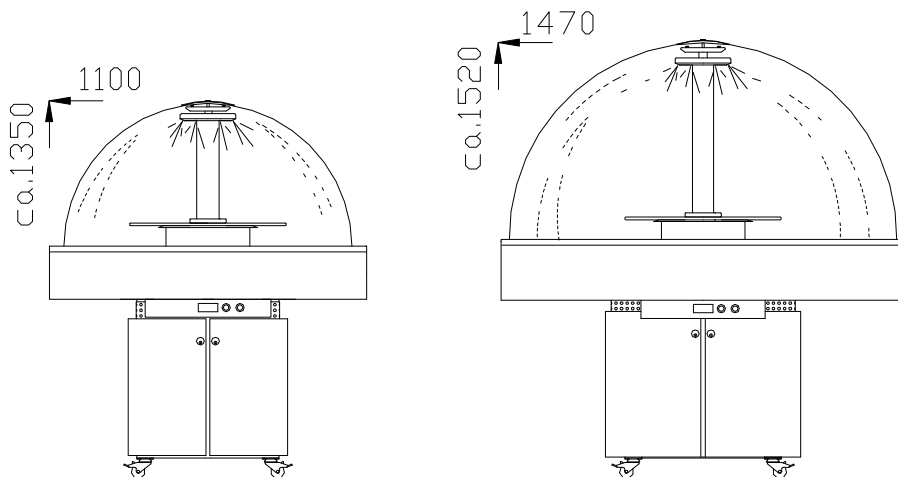


Operating manual model G111/G147

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<u>Contents</u>	<u>Page</u>
1. Introduction	2
2. Import instructions	2-3
3. Delivery volume	4
4. Assembly instruction	4
5. Operation	4-6
6. Disassembly and assembly	6-8
7. List of parts	9
8. Wiring diagram	10-11
10. Technical specifications	12
11. Defects/notification of faults	12-13

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1. Introduction

Congratulations on your new **ShowMaster!** You have chosen an exceptional and versatile appliance which will give you a lot of pleasure. Please pay attention to the information and instructions in this brochure.

The **ShowMaster** is ready to plug in (230V/50 Hz or 110V/60 Hz) and designed for many years of perfect, continuous operation. All refrigerating and electrical parts are made of proven low-maintenance or maintenance-free components. Local electricians can usually carry out the work on these parts. If you should have any special requirement or queries, please contact your retailer. Please quote the serial number of your **ShowMaster**. The serial number is located on the side in the operating and display panel, as well as on the hoisting motor.

2. Important instructions

Safety hints

The **ShowMaster** complies with the appropriate safety regulations and is intended for use in indoor areas.

For transporting the **ShowMaster** over large distances if possible use the original packaging or comparable packaging to give protection against shock, knocks and shaking motion (chafe marks). Ensure that the doors are firmly closed and loose parts are fixed in the appliance interior.

If the **ShowMaster** is brought into the operating area from a cold ambient temperature, condensation can occur. Do not start the **ShowMaster** until it has reached room temperature and is totally dry.

The **ShowMaster** is designed to run on mains voltage of 230V/50Hz (110V/60Hz). Check that the local supply does not fall below or above this voltage.

Install the existing wiring so that there is no source of danger (risk of tripping) and no risk of damage. In case of damages at the wiring, this shall only be replaced by a qualified electrical skilled worker, to avoid dangerous situations.

The ON/OFF switches do not disconnect the **ShowMaster** from the mains voltage. Remove the plug from the socket outlet for total disconnection.

The plug must be disconnected from the socket outlet for disassembly of the **ShowMaster** or before

work on the electrical equipment or the refrigerating plant.

The underside of the display plate (10), the switching satellite (29) and the interior of the lower stand must be protected from splashed water.

Running water must not be used to clean the **ShowMaster** stainless steel tank and its parts (risk of splashed water to electrical installations, overflow risk of condensation water container). Only use damp cloths for cleaning. Special care is needed when cleaning the underside of the display plate.

The acrylic glass hood must only be closed after checking that no one is reaching into the interior of the **ShowMaster** (risk of being squashed). The hood is only to be moved by motor using the key-operated switch or remote control. Never lift the hood manually! (Risk of damaging hoisting mechanism).

For optimal refrigeration the sheet metal insert should always be inserted in the **ShowMaster** stainless steel tank. These are part of the no-frost system. The effect of the no-frost system is greatly reduced without the sheet metal insert.

Ice can form on the tank depending on the temperature setting and humidity. Formation of ice reduces the refrigerating capacity of the appliance.

It is essential to close the stop valve of the tank outlet when filling the stainless steel tank with crushed ice, to prevent the condensation water container overflowing. Maximum filling height for crushed ice: 5 cm below edge of the tank. Ideally there should be a permanent drainage.

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Instructions for care

Only clean stainless steel parts and acrylic glass dome with the cleaning agent supplied (or similar). Clean all other surfaces (for instance, rubber parts, plastic parts, painted surfaces etc) with commercial, non-abrasive cleaning agents. Clean all stainless steel parts frequently and carefully. Instead of special cleaning agents you can also use soap and water without abrasive additives. Always rinse adequately afterwards with clean water and please dry carefully. A clean, stainless steel surface forms a protective oxide coating which prevents corrosion.

Only clean the acrylic glass hood with a soft (leather) cloth. Never use abrasive cleaning agents! Remove small scratches in the dome with the supplied paste (or similar) and use a soft cloth with a circular action. Rub out deeper scratches carefully with the finest emery paper (grit 500-600), then polish as above. The processes described can also be carried out using hand-held machines.

A paintbrush should be used to remove the dust from the refrigerating webs of the refrigerating machine/condenser (in front of the fan) every 3 months, prior to this switch the electricity off. Never use a water jet to clean the appliance, as there is the risk of damaging internal parts and fittings. This can pose risks for your safety in the case of electrically operated appliances.

Empty and wash the condensation water container regularly, at least once a week. Remove the plug before any work in the interior of the lower part!

Guarantee

A guarantee period of 24 months from delivery date is provided for material and processing defects. Damage caused during transport and damage caused by operating errors are not included.

Warning: The acrylic glass dome of the **ShowMaster** has been manufactured in a single - very expensive - work cycle. Despite the most modern manufacturing methods small flaws on the surface, possibly leading to visual impairment, cannot be avoided. They must be accepted and provide no reason for complaint.

Attention:

Do not fix any advertising material or labels outside the display ring of the ShowMaster by using screws, because the refrigerating tubes are behind the display ring and may be destroyed by boring into the ring.

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3. Delivery volume

The **ShowMaster** is delivered in a disposable wooden crate. This can be re-used for further transport of the **ShowMaster**, if necessary.

The **ShowMaster** is delivered fully assembled ready to be plugged in (without external accessories). All fittings for the standard design are enclosed with the appliance.

Information on accessories:

The following parts are enclosed with your **ShowMaster**:

- 2 operating keys
- Inbus key (hexagonal key) 5 mm
- Inbus key 2 mm
- Inbus key 2.5 mm
- Cleaning and care set
- Operating manual

Accessories and special fittings such as bowls, tray slides, attached and additional fittings, remote control etc. are delivered in the crate or follow as separate packing unit.

4. Assembly instructions

The **ShowMaster** is delivered ready to be plugged in.

Please note:

For operation of the appliance mains voltage 230V/50 Hz (110V/60 Hz) monophasic alternating current ($\pm 10\%$ tolerance) is required.

Ensure supply cable of large enough cross-section to cause no voltage drop greater than 5 volts when the compressor is running. If necessary check with the appropriate tool. If this is the case increase the cross-section of the supply cable.

The compressor is located within the lower part (34) and is easily accessible after the doors are opened.

Warning: disconnect power supply before opening the doors!

The **ShowMaster** is fitted with 4 steering castors. Only roll the **ShowMaster** over even ground to avoid damage to the castors. The rollers have an immobilizing brake. This should be operated on site to prevent unintentional shifting.

The **ShowMaster** should be installed in well-ventilated rooms at the required distance from sources of heat. There must always be a clearance of at least 40mm between the floor and the base of the appliance, to ensure good circulation of air for good refrigerating capacity.

Install the **ShowMaster** so it is level. Level out uneven surfaces. This is essential to ensure perfect closing of the acrylic glass hood and the doors fitted to the lower stand as well as for the drainage of condensation water in the tank floor.

If the **ShowMaster** does not fit through a doorway, it can be disassembled and tilted. Please follow the instructions on pages 6 - 8.

5. Operation

Connect power supply, the digital display (47) shows the inside temperature of the tank at the metering point.

All operating and display element are summarized in the switching satellite (29).

Acrylic glass hood

The key-operated switch (50) or a remote control operates hood lifting and lowering. The position of the hood is infinitely variable; the maximum height is 50 cm for G147 and 38 cm for G111. The hood motor cuts out automatically at the maximum terminal height.

Turn to right = lift
Turn to left = lower

Lifting and lowering carried out too frequently in succession activates the overheating protection of the hood motor. After approx. 5-10 minutes the hood can be operated again.

The hood rod of the **ShowMaster** is fitted with a spring for safety reasons. The hood of the **ShowMaster** must never be raised manually as this would damage the spring mechanism and the performance of the appliance.

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Lighting

max. 35 Volt DC LED-lighting

The light is switched off/on using the rotary type switch (49). The lighting equipment of the ShowMaster is operated by an electronic safety transformer.

Primary circuit: 110-240 V/50-60 Hz
Secondary circuit: konst. 350 mA/ max. 35 V DC
Capacity: 1-9 W

Possible reasons for failing of light:

1. plug not plugged into socket
2. loose cable inside the switch panel
3. power supply switched off by electronic safety transformer when the integrated overload protection is released. After a short while the transformer will be automatically switched on (Auto-Reset). Do not exceed the capacity of the transformer.
4. Emitting diode is damaged. The complete lighting unit consists of 9 LED. To check the LED lighting disassemble the acrylic glass hood (see pict. 3, page 7): Raise acrylic glass hood (3) approx. 5 cm with the motor and loosen hexagon cap nut (1) with the Inbus key supplied. Remove sealing cap (2). Two people lift off the acrylic glass hood (3) and store it on soft base. Bring the lifting mechanism to the upper final position. Loosen the cover of the lighting unit. There are 8 pcs. short circuit plugs inside the unit. Unplug all 9 LED diodes and instead of this put 8 short circuit plugs into the distributor. Plug in the single LED diodes one after the other, this will identify the damaged diode. The damaged one may be pressed out by a screw driver.
5. The transformer is damaged in case that no LED diode is illuminated.

Testing and exchange of LED diodes may be easily carried out, but a transformer can only be exchanged by trained specialists.

Refrigeration

The compressor and thus the refrigerating process are switched on (area refrigeration) by operation of the switch (55). The refrigerating temperature is displayed by the digital display (47). The metering point is in the refrigerating tank in the central section.

The circulating air is switched on by the switch (54). The temperature metering point is in the cooling flow below the fans.

Adjusting the thermostat (s. picture 7)

The thermostat is displaying the actual temperature when the unit is switched on. "Set" will appear after pressing the set-key (61). Pressing the set-key (61) again will show the adjusted temperature. The temperature can be changed by the keys plus (57) or minus (58). Not pressing the key for 10 sec. the value will be stored and the actual temperature will be displayed.

Note: If the temperature is adjusted to 0°C or lower the compressor runs continuously. The displayed temperature shows the ambient temperature of the thermostat probe. Given cold interior air mixes with warm ambient air when the hood is open, the refrigerating air in the tank area can be higher than displayed. If appropriate, readjust thermostat.

Changes to the adjustment parameters of the thermostat control system should always be carried out in agreement with an expert.

Automatic defrost: the automatic defrost is preset during manufacture for model G111 to 4 hours and model G147 to 8 hours intervals. The defrost stage lasts approx. 30 min. for model G111 and 10 min. for model G147. If necessary, a manual defrost process can be triggered by pressing the key (62) 5 seconds. This does not affect presetting.

It is recommended that you switch off the refrigerating unit before cleaning and disconnect from the socket outlet. **The display plate (10) is outside the refrigerating area. It should only be stocked with goods not requiring refrigeration!**

Condensation water outlet of the stainless steel tank:

Condensation water passes into the canister (36) via the stop valve (24) by tube (25). Please check level and carry out emptying/cleaning on a regular basis (once a week). Clean the ice and dirt from the stainless steel tank regularly, at least every 3 days. If necessary, close stop valve (24). If the red tap is vertical, the valve is open. If the red tap is horizontal the valve is closed.

Very important: only fill crushed ice up to 5 cm below the tank edge so that no condensation water can get into the interior of the appliance in the central section. Since the canister volume is very restricted, if appropriate a permanent water outlet should be fitted.

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Infrared remote control

An infrared remote control is installed which requires visual contact with the **ShowMaster** for perfect operation.

WARNING: Only use the remote control when you can see that no one is reaching into the interior of the appliance!

The handset must be carefully pointed at the operating and display panel (29) of the **ShowMaster**, as this is where the receiver is located. The distance from the **ShowMaster** can be a maximum 7 - 10 m (diagram 1).

Function of the handset:

The handset has two push buttons. The left button raises the hood, the right lowers it. Continuous pressing starts the process. If the push button is released the raising or lowering process is interrupted. When the terminal positions are reached the lifting or lowering process cuts out automatically.

WARNING, DANGER: The receiver (ZF) in the switching satellite (29) is supplied with 230 volts mains current.

The plug must be disconnected from the socket outlet before opening the switch box!

The batteries are special waste and have to be separated

If the remote control does not work:

1. Check power supply to **ShowMaster**
2. Check battery in handset

6. Disassembly and installation

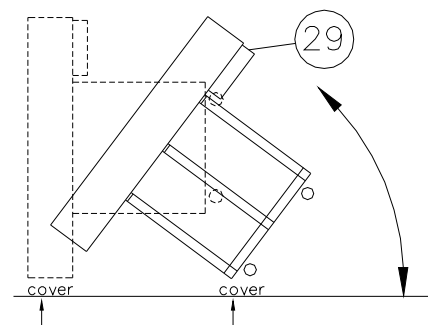
In order to get the **ShowMaster** through doorways, which are too narrow, if necessary, it can be dismantled and tilted. A base which can be rolled must be used to transport it when tilted to avoid damage to the frame.

Warning:

The doors of the ShowMaster must be removed before it is tilted. The transport lockers on the holding straps must be loosened and the door must then be taken off from the hinge pins. After transport during which the ShowMaster is tilted it must stand horizontally for at least 1 hour, before the refrigerating unit is switched on. Damage to the refrigerating set can result if this instruction is not complied with.

The **ShowMaster** must only be tilted over the rear axis of the door joint. It has been found helpful to use a blanket as a base at the point of support. The switching satellite (29) must point upwards for this (see diagram 2).

It is essential to empty the condensation water canister (36) beforehand.



Pic. 1

Pic. 2

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Disassembly and assembly instructions

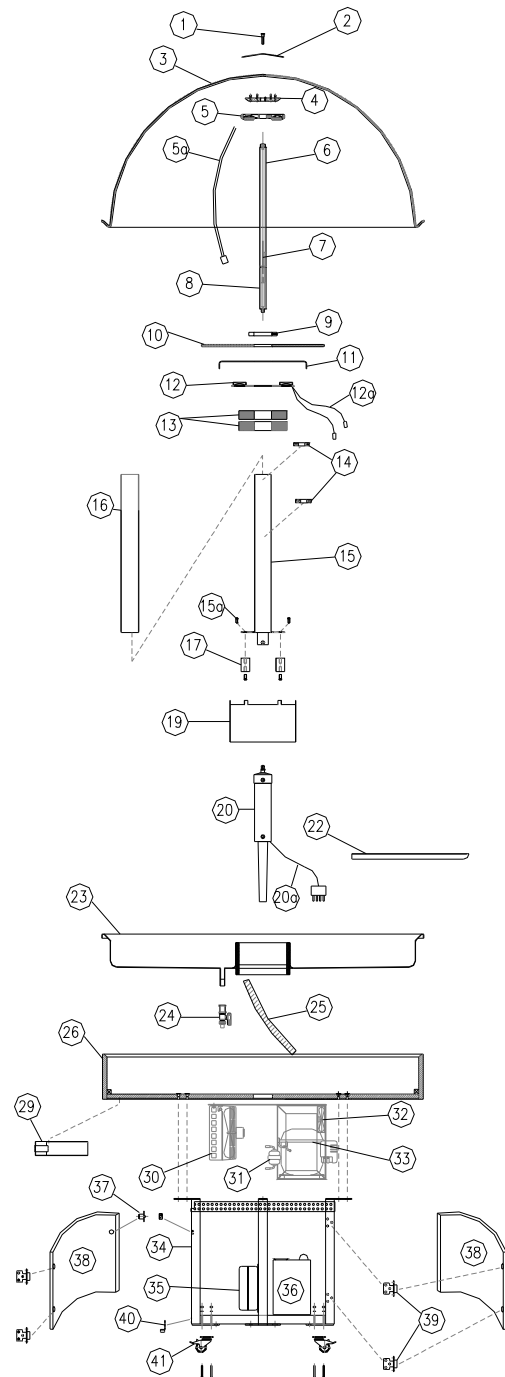
1. Raise acrylic glass hood (3) approx. 5 cm with the motor and loosen hexagon cap nut (1) with the Inbus key supplied.
2. Disconnect plug from socket outlet.
3. Remove sealing cap (2). Two people lift off acrylic glass hood (3) and store it on soft base.
4. Remove fixing device screw (4a) of the support plate (4) and turn support plate to the left. (See pict. 4)
5. Remove the cover of the lighting unit. Unplug the cable from the LED distributor. Secure the cable. Remove the 2 screws and the lighting unit itself.
6. Open doors (38) and dismantle by loosen the screws (in the back)
7. Loosen following plug connections:
 - hoisting motor 230 V- 4-pin plug (20a)
 - fan motors 12 V 2-pin plug (12a)
 - LED lighting 35 V DC – plug inside the switch panel
8. Push the display plate (10), circulation cooling guidance (11) and ventilator plate (12) approx. 20-25 cms to above over the cover of the middle section (16)
9. Remove foam material rings (13)
10. Loosen screws (15a) and take out complete centre branch (20).
11. Take out the reference cylinder (19)

As required, the castors or the complete lower stand can be dismantled.

Please pay attention to the instructions on page 6 and diagram 2 to tilt the **ShowMaster**. During transport, please take care that no machine parts are placed under stress or are damaged.

Assembly occurs in reverse order. Please ensure that the foam material rings (13) lie below on the motor support, are not pushed through laterally too deeply and lie uniformly on the inner edge of the cylinder.

Warning: After tilting the unit the refrigerating set must stand for one hour before it is switched on. Failure to comply with this instruction can lead to damage of the refrigerating set.



Pic. 3

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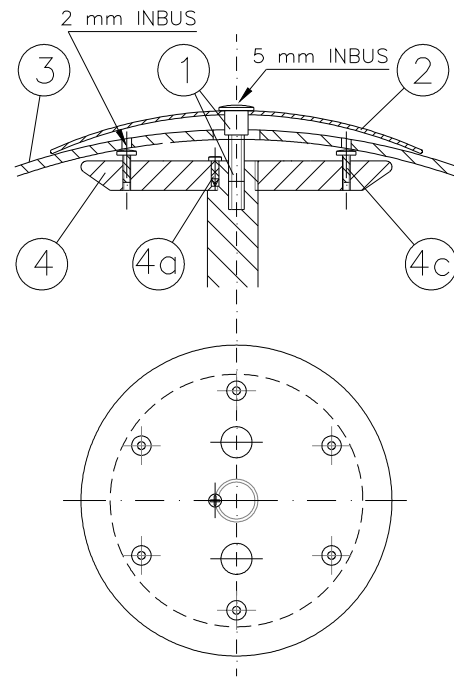
Levelling out acrylic glass hood after assembly

The acrylic glass dome has been precision-adjusted in the factory. If you have disassembled the **ShowMaster** e.g. for assembly, possibly it is necessary to level the acrylic glass hood again.

1. Install the centre branch completely.
2. Turn base plate (4) on the hoisting rod, screw in fixing screw (4a) tightly from above into the hole provided. In the base plate there are (screwed in from above): 6 levelling pins (M4) with white plastic caps (4c)
3. Bring up hoisting motor approx. 10 cm and lie acrylic glass hood on the base plate (4) so that the coloured marks correspond to each other.
4. Lower hood (3) to approx. 5 cm above the refrigerating tank (23) and check parallelism to base surface. If the hood is too low on the left undo the left levelling pins (4c) or tighten the right pins (4c) a little or the reverse.

Levelling is carried out from above with a 2 mm Inbus key through holes in the hood. Please ensure by means of **perfect** levelling that the hood is placed fully on the base edge at the same time.

5. Finally place sealing cap (2) on the acrylic glass hood (3) and do up the sealing plug (1) tightly with a 5 mm Inbus key.



Pic. 4

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7. List of Parts

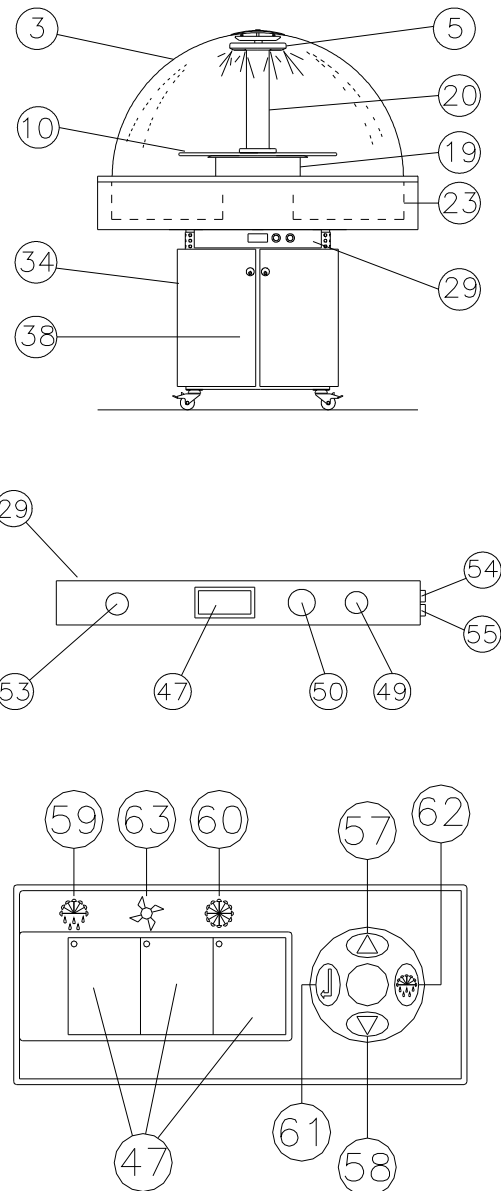
Pic. 3-7, 9

- 1 Hexagon cup nut
- 2 Sealing cap
- 3 Acrylic glass hood
- 4 Base plate
- 4a Fixing screw base plate
- 4c Levelling pin with plastic cap
- 5 LED lighting unit
- 5a lighting cable LED/transformer
- 6 Lift rod – Upper part
- 7 Key for lift rod
- 8 Lift rod – Lower part
- 9 Clamping ring
- 10 Display plate
- 11 Circulation cooling guidance
- 12 Fan base
- 12a Plug for fan motors 12V DC
- 13 Insulating ring
- 14 Lift rod bearing
- 15 Motor bracket
- 15a Centre branch fixing screws
- 16 Stainless steel pipe
- 17 Sheathing centre branch
- 19 Reference cylinder
- 20 Hoisting motor
- 20a Plug-and-socket connector for hoisting motor, 4-pin
- 22 Shelves stainless steel
- 23 Refrigerating well
- 24 Stop valve
- 25 Tube
- 26 Frame
- 29 Switching satellite
- 30 Condenser
- 31 Dryer
- 32 Cooling fan (for G147)
- 33 Compressor
- 34 Lower Stand
- 35 E- equipment refrigeration plant
- 36 Containers (G111=1 ltr. G147=5 ltrs.)
- 37 Lock
- 38 Doors
- 39 Hinges
- 40 Door stop
- 41 Castor

Switch panel

- 43 Terminal strip
- 44 Transformer 110-230V/35V DC (lighting)
- 45 Transformer 230/12V, 3 VA (refrigeration controller)
- 46 Transformer 230/12V, 10 VA (forced air cooling)
- 47 Thermostat R 34-12
- 48 Current redresser
- 49 On/off switch for lighting
- 50 Key-operated switch for hood operation
- 51 Resistor

- 52 Infrared remote control receiver
- 53 Welch plug for changing remote control
- 54 Switch for circulating fan
- 55 switch for Compressor
- 56 Infrared remote control transmitter
- 57 Key to increase temperature
- 58 Key to decrease temperature
- 59 LED to display defrosting process
- 60 LED to display refrigerating process
- 61 SET key
- 62 Manual defrost key

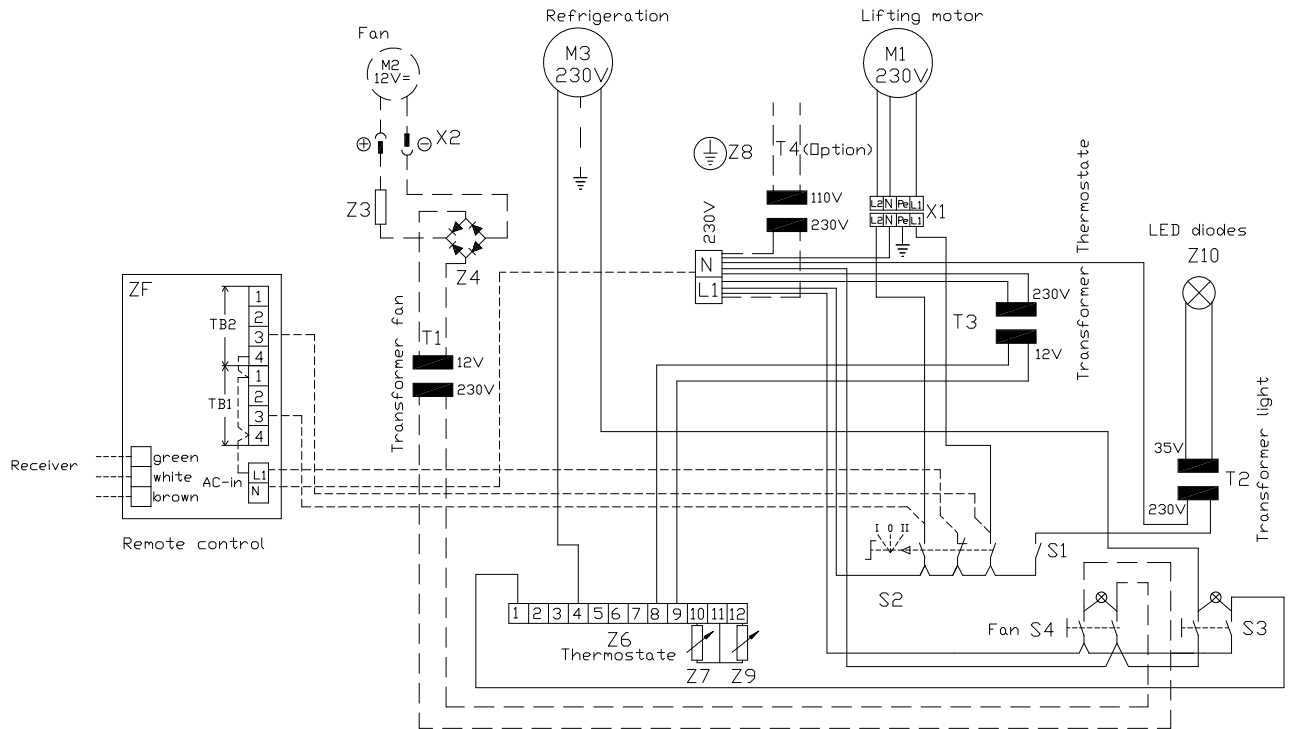


Pic. 5-7

Operating manual model G111/G147

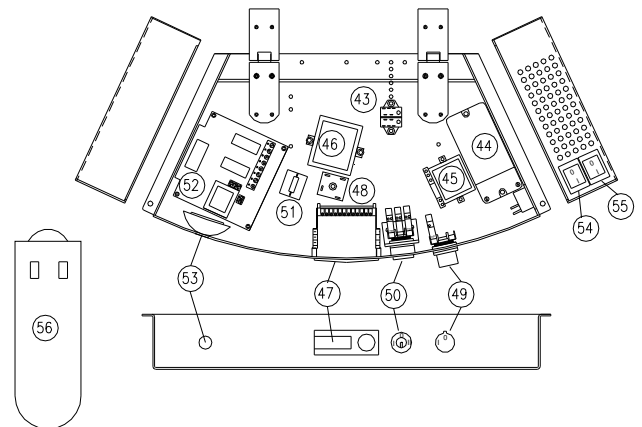
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8. Switch plan G111



Pic. 8

- M1 Lifting motor
- M2 Fan motors 4 pcs.
- M3 Refrigeration machine
- S1 Light switch
- S2 Key switch lifting motor
- S3 Switch refrigerating unit
- S4 Switch fan motors
- T1 Transformer 230/12V, 10 VA
- T2 Transformer 110-230/35V DC, 10 VA
- T3 Transformer 230/12V, 3 VA
- T4 Transformer 110/230 V, 1300 VA
- X1 Plug and socket connector 4 pins
- X2 Plug and socket connector 2 pins
- X7 Terminal strip 2x2 poles
- Z3 Resistor 33 ohm
- Z4 Current redresser
- Z6 Thermostat R34-12
- Z7 Temperature probe vaporizer
- Z8 Housing earth
- Z9 Thermostat probe
- Z10 LED diodes each 1 W (9 pcs.)
- ZF Remote control



Pic. 9

Operating manual model G111/G147

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9. Technical specifications

G111

- Measurements: 1110x1340 heights
- Weight approx. 121 kg
- packed weight approx. 193 kg
- Capacity: height 115 mm: 90 litres
- Volume capacity of condensation water container: 1 litre
- LED diodes each 1 W, 9 pcs.
- Temperature of display plate: approx. ambient temperature
- Refrigerating capacity: 690W
- Rated capacity in total 905 W
- Voltage/frequency: 230V-50/60 Hz or 110V-50/60 Hz
- Strength of current: 5,5 A
- Average temperature in refrigerating area at 7 cm height from base tank:
 - a. hood closed: + 06-08° C
 - b. hood open: + 08-13° C
- Refrigerant: R404a

9. Technical specifications

G147

- Measurements: 1480x1540 heights
- Weight approx. 182 kg
- packed weight approx. 252 kg
- Capacity: height 115 mm: 230 litres
- Volume capacity of condensation water container: 5 litres
- LED diodes each 1 W, 9 pcs.
- Temperature of display plate: approx. ambient temperature
- Refrigerating capacity: 714 W
- Rated capacity in total 940 W
- Voltage/frequency: 230V-50/60 Hz or 110V-50/60 Hz
- Strength of current: 5,9 A
- Average temperature in refrigerating area at 7 cm height from base tank:
 - a. hood closed: + 06-08° C
 - b. hood open: + 08-13° C
- Refrigerant: R404a

Climatic class 3 acc. to EN 60335-2-89
 Refrigerating data determined at 25° C ambient temperature, without direct sunlight, without draught.

10. Faults/Notification of defects

Fault

Refrigeration:

Notification- thermostat control

HIT selected temperature is higher than the adjusted value
 LOT selected temperature is lower than adjusted value
 PF1 broken probe in thermostat probe
 PF2 broken probe of vaporizer probe
 EEP EEPROM fault = loss of data

Cause + Remedy

- check limits and possibly adjust
- check values and possibly adjust
- replace thermostat probe
- replace vaporizer probe
- store all parameters again

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Fault

Cause + Remedy

Refrigerating unit is not working

- check mains connection (plug, mains fuse)
- Switch (44), not switched on
- Loose cable connection in the refrigerating machine
- Thermostat is adjusted too high
- Thermostat does not give current to the refrigeration machine
- Faulty refrigerating machine (replace)

Ventilation system is not working

- switch (54) not switched on
- Loose fan plug-and-socket connector (12a)
- check fan transformer connection/possible faulty (replace)

Inadequate refrigerating capacity

- possibly remove dust from condenser unit
- check control point (see page 6)
- Appliance is possibly in defrost mode (30 min)
- Stainless steel well covered with too much ice (Let it defrost)
- Not enough refrigerant agents (check and fill)

Lighting

LED diodes do not work

- check mains connection
- loose cable connection in switch panel
- power supply switched off by electronic transformer when the integrated overload protection is released. (Switches on after a while)
- LED diode damaged (see chapt. 5)
- electronic safety transformer damaged (needs exchange)

Hoisting motor

Hood does not lift / lower

- check plug type connector (20a)
- check cabling in switch box (29)
- overheating protection activated, wait 5 minutes
- carry out electrical check on hoisting motor/ possibly faulty (replace)

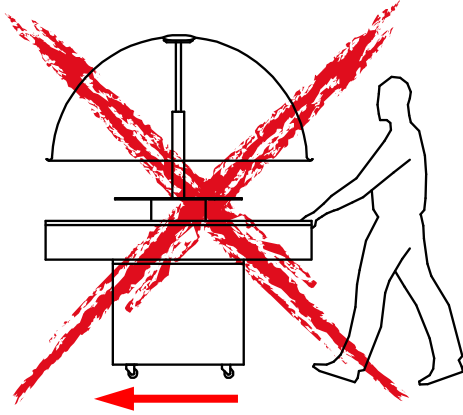
Remote control

Hood cannot be raised / lowered

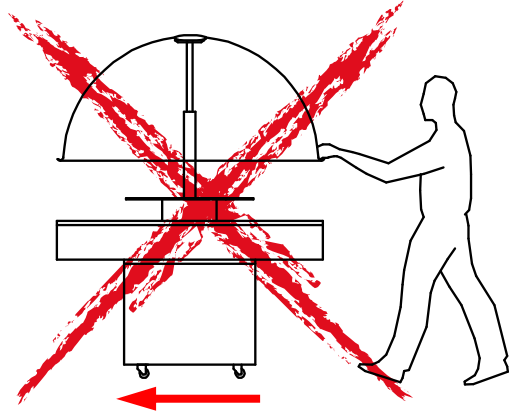
- check hoisting motor with key
- check motor connection in switch box
- Check mains connection - (fuse)
- Faulty handset / receiver board (replace)
- Battery in handset run out
- Transmission channels shifted
- Distance to appliance/receiver too great

Operating manual model G111/G147

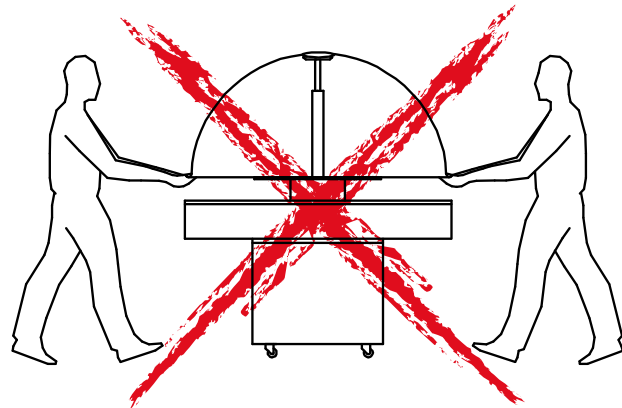
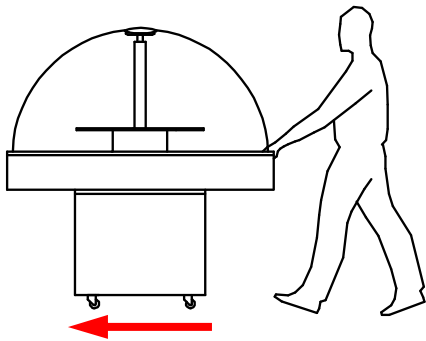
ShowMaster®
Vertriebs GmbH
Speckenbeker Weg 130e
D-24113 Kiel / Germany
Tel.: +49 +431-6 48 06 21
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e-mail: info@show-master.de
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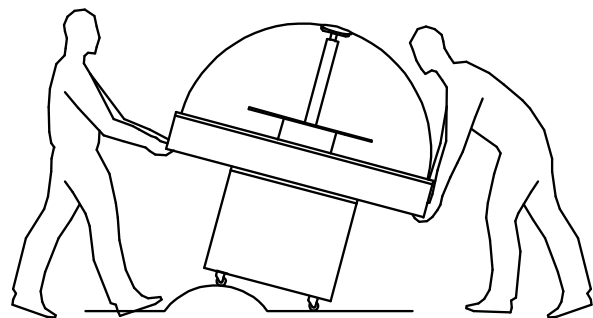
Don't push with open dome.



Don't push the dome.



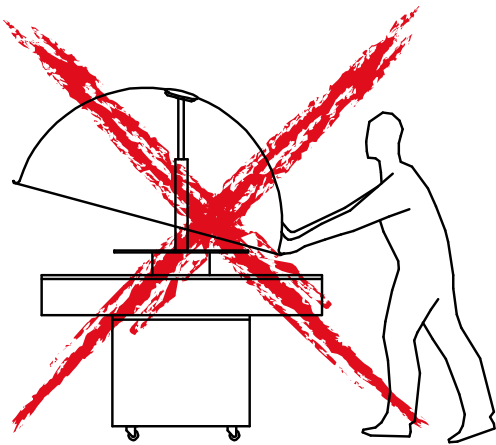
Don't push the Showmaster over stairs.



Lift the Showmaster over stairs always with min 2 persons.

Operating manual model G111/G147

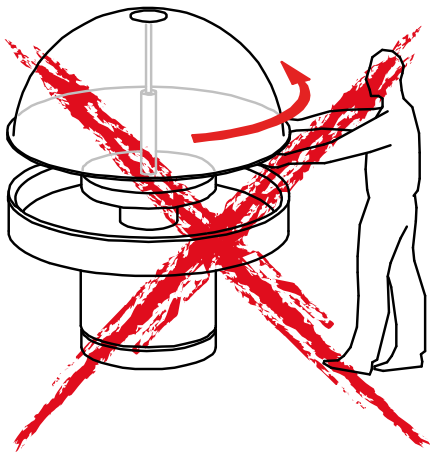
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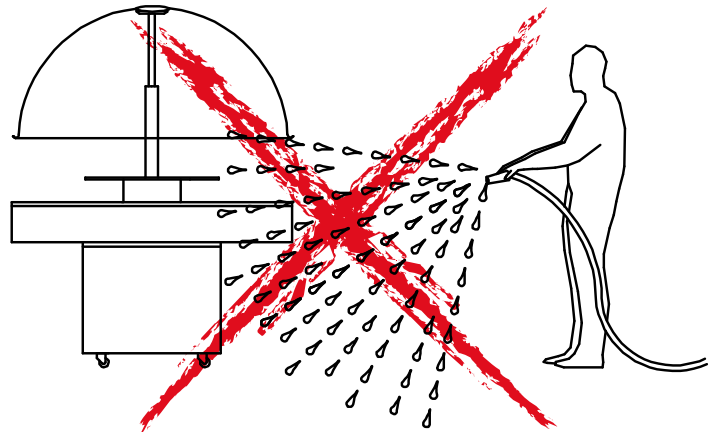
Don't hold yourself or push against the dome.



Never let the ShowMaster Stand in the rain.



Don't turn the dome nor turn the Showmaster by holding the dome.



Don't clean the Showmaster with a water hose nor with a steam cleaner.