

ETHERMA LAVA BASIC-DM 740 Infrared Heating Instruction Manual

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ETHERMA

ETHERMA LAVA BASIC-DM 740 Infrared Heating



GENERAL

ETHERMA LAVA® design infrared heaters are versatile direct heating devices. They are characterised, in particular, by their elegant design, ease of installation and operation, high reliability and maximum radiation power with minimal convection.

These instructions provide important information on safety, installation, use and maintenance of the device. Please read the information provided in these instructions carefully and keep for reference in case you will have questions at a later occasion.

The manufacturer shall not be held liable if these instructions are not complied with. Devices may not be used improperly, i.e. for purposes other than the intended use.

The packaging of your high-quality LAVA® design infrared heater is made from recyclable materials.

THESE INSTRUCTIONS MUST

- be given to the operator following installation. The operator must also be instructed in the infrared heater's functionality.
- be kept safe and transferred to the new owner in case of a change in ownership.
- **WARNING:** Covering the surface creates a danger of overheating. Overheating may occur and the heating element may be damaged by covering the front of the device, e.g. with a hand towel.
- **WARNING:** The infrared heating may not be used if the front of the device is damaged.

OVERHEATING AND OVERLOAD PROTECTION

All heaters have overheating protection which is activated in the event of overheating. The device only resumes operation automatically again after having cooled down to below 45 °C.

- **ATTENTION:** Hot surfaces on the device may cause burn injuries. Switch off the device and let it cool down before carrying out maintenance and service works.
- **ATTENTION:** On the surface of the LAVA® BASIC-DM infrared heating environmental influences such as direct sunlight, heavy smoke, open fires, etc. may cause discoloration of the hue.
- This heating device is not intended for the use by persons (including children) with a limited physical, sensory

or mental capacity or with a lack of experience and knowledge. Such individuals must be supervised by a person responsible for their safety or instructed on use of the device. Children should be supervised in order to ensure that they do not play with the device.

- This device can be used by children of 8 years and older and by persons with reduced physical, sensory or mental abilities and with a lack of experience or knowledge if they are supervised or have been instructed on safe use of the device and understand the resulting risks. Children may not play with the device. Children may not clean the device or perform maintenance on it without supervision.
- Children under the age of 3 should be kept away unless under constant supervision. Children between the ages of 3 and 8 may only switch the device on and off if they are supervised or have been instructed regarding safe use of the device and understand the resulting risks, as long as the device is placed or installed at its intended place of use.
- Children between the ages of 3 and 8 must not plug in the device, control the device, clean it and/or carry out maintenance.
- The device may only be operated once installed. This heater may not be used in the immediate vicinity of a bath, shower or swimming pool. When installing the device in a bathroom, the device must be mounted so that switches or other regulators cannot be touched by persons in a bathtub or shower. The heater may not be used in small rooms occupied by persons who cannot leave the room independently, except where constant supervision is guaranteed.

Some product parts can become very hot and cause burns. Particular caution is required when children or vulnerable persons are present.

- **ATTENTION:** Strain of any kind on the surface, whether from persons or objects leaning against it or from other forces, must be avoided!

OVERVIEW OF TYPES AND VERSIONS

LAVA® BASIC-DM

The LAVA® BASIC-DM is an infrared heating device with a high intensity of radiation. The device is characterized by its homogeneous temperature distribution and its fast heating response. Due to its internal insulation, it heats the room with a maximum radiation intensity. As a standard, the LAVA® BASIC-DM comes with only one connecting cable.

ET-111A RADIO RECEIVER

The radio receiver is fixed to the rear side of the LAVA® BASIC-DM. In connection with an ET-14A, the ET-111A radio receiver provides for easy switching of up to 10 LAVA® Design infrared heaters.

ET-14A RADIO-CONTROLLED ROOM THERMOSTAT

ET-14A is a radio-controlled room thermostat which is provided with a clock for measuring the temperature in living spaces and office spaces and in hotel rooms. Elaborate elevation and plaster work for cable routing is avoided which allows an easy installation. The thermostat can be mounted on a flush box or surface-mounted box on the wall.

WIRED ROOM THERMOSTATS:

Ideal for new buildings and renovation, for example when old night storage heaters, which were controlled by thermostat, are replaced.

SCOPE OF DELIVERY

PACKAGING

- The LAVA® infrared heating must be mounted exclusively using the fixing components included in the scope

of delivery.

- Screws and dowels (not included in the scope of delivery) must correspond to the construction material of the ceiling (masonry, concrete, plasterboard, etc.). The surface of the ceiling and wall must be even.

STANDARD SCOPE OF DELIVERY FOR CEILING INSTALLATION & WALL MOUNTING:



- LAVA® BASIC-DM 700 W
- 1 x mounting rail
- 2 x safety pin
- 2 x cover panels

NOTES

- LAVA® infrared heating devices comply with the relevant safety requirements.
- Installation and initial start-up, as well as repairs and servicing, may be carried out by a licensed specialist or qualified individual only. All safety regulations must be observed. This person must verify first whether the electrical in-house system complies with the relevant standards. The responsibility of the manufacturer is limited to supply of the device.
- Comply with country-specific safety regulations.
- Comply with local safety precautions.
- The devices are suitable for the installation on walls and on ceilings.
- Protective areas must be observed in accordance with DIN VDE 0100, part 701, when installing the device in bathrooms.
- Minimum distances must be adhered to.

- **NOTE**

In case of a ceiling installation, the device must be mounted at least 1.8 m above the floor.

- **NOTE**

In bathrooms, the device must be mounted so that switches or other regulators cannot be touched by persons in a bathtub or shower.

- **NOTE**

Due to the low surface temperature at the rear side (up to 40 °C) the infrared heating may also be mounted on

wooden panelling.

- **NOTE**

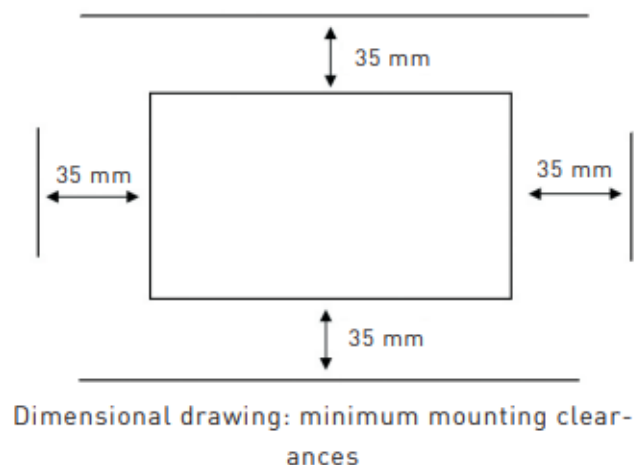
The device is not intended for the use in wardrobes and beneath church benches.

CLEARANCES

INSTALLATION AND MINIMUM DISTANCES:

LAVA® infrared heating devices have to be mounted so that flammable objects cannot catch fire. Be absolutely sure to comply with minimum clearances, in particular to highly combustible objects such as curtains, upholstered furniture, etc. Please also make sure that the infrared heater can radiate freely into the room.

ATTENTION: Strain of any kind on the surface, whether from persons or objects leaning against it or from other forces, must be avoided!



CEILING INSTALLATION

1. Hold the mounting rail to the desired position where the LAVA® should later hang and mark the holes.



2. After you have drilled the holes and plugged in dowels screw the mounting rail to the ceiling.



3. Hang the LAVA® one-sided in the provided suspension and make sure that the LAVA® is correctly locked in

place.



4. If the LAVA® is safe, you can Connect the device to the circuit



5. Hold the LAVA® firmly in the suspension and push the other side of the device up to the mounting rail.



6. Press the LAVA® slightly upwards and insert the two secu-ring pins to fix the device in the mounting rail.



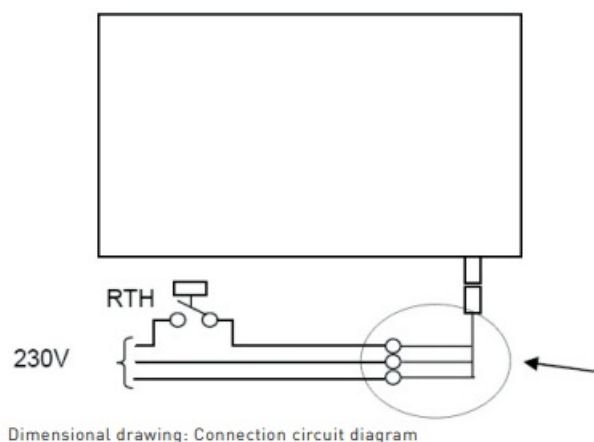
7. Finally you bring the screens through easy to press on the sides.



ATTENTION:

The LAVA® can also be mounted on the wall. Please make sure that you mount the mounting rail in such a way that the LAVA® is to be clipped in at the bottom and the safety ridges are at the top!

ELECTRICAL CONNECTION



The heater is intended for the fixed connection to a ceiling or wall socket.

The device is connected to the AC mains system with a power cord connected and a connection socket on the installation side.

NOTE

The connecting cable can be extended using a cable of the SIHF-J3G1.5 mm² type. A direct connection to the device cannot be implemented. The length of the connecting cable must be between 1.0 and 1.9 m.

An all-pole disconnecting device with a minimum contact opening width of 3 mm has to be mounted into the fixed electrical installation in compliance with the installation regulations.

HEATING MODE

The heater is operated by means of direct connection via switch, via an external room thermostat (eTOUCH eco), or via a radio receiver (ET-111A) in connection with a radio-controlled room thermostat (ET-14A). These items can be ordered as accessories. Please observe the operating instructions of the respective product.

ATTENTION: If the main cable to the device is damaged, it must be replaced immediately by a specialist.

USER MANUAL

HEATING MODE

Depending on the thermal insulation standard, you require a heating power between 30 and 200 W/m² living space. The LAVA® infrared heating has a very large radiation component and a very small convective component of the heating power. For reasons of safety, the surface temperature is max. approx. 120 °C, therefore the total power of the devices is limited. This is the reason why these devices can only be applied as an exclusive heating in houses with a very good heat insulation.

The LAVA® infrared heating by ETHERMA mainly heats solid objects and, only to a lesser extent, directly heats the room air. Therefore, these devices are ideal for additional temperature control. In order to achieve the same feeling of comfort as with a convection heating, the room air temperature can be reduced by approx. 2–3 °K. Each

degree that the heating is reduced can save up to approx. 6 % of the heating costs, depending on the heating performance and thermal insulation standard.

Only if the room is actually used, the LAVA® infrared heating is additionally switched on and the radiation takes over the task of heating the persons. Depending on the size of the device, the LAVA® infrared heating requires a certain time until the operating temperature is reached. Only then the radiation can take its full effect.

MAINTENANCE AND CARE

The LAVA® infrared heating is designed so that it gives off its heat via the surface in the form of radiation. The device does not contain any parts requiring special maintenance. In order to service your infrared heater, we recommend using a damp cloth. Please do not use any scouring agents, since they may leave scratch marks on the surface.

ATTENTION: When you want to clean the LAVA® infrared heating, the heating device must be cold!

TECHNICAL DATA LAVA® BASIC-DM 700 W

- **Rated voltage:** 230 V
- **Output:** 700 W
- **Surface temperature:** max. 120 °C
- **Surface:** Structured surfaces
- **Frame:** Steel housing, white RAL 9016
- **Device/Installation depth:** 22/52 mm
- **Protection rating:** IP 21
- **Connection line:** 1 m, 3 x 1.5 mm² without plug
- **Factory warranty:** 5 years
- **Type** Art. no. Control system Power output (W) Length (mm) Height (mm) Weight (kg)
- **LAVA-BASIC-740DM** 40755 none 700 900 900 17

INFORMATION ON ENERGY CONSUMPTION

In combination with an Ecodesign-compliant thermostat, the product data complies with the EU regulations on the Ecodesign Directive (2009/125/EC) for energy-related products (ErP).

- Faults
 - **The device does not heat:**
- Has the fuse been triggered or is it defective?
- Is the external switch in the supply line switched off?
- Is the setpoint temperature of the room temperature controller set lower than the actual temperature of the room?

Radiation heat too low:

- Is the distance between the radiation heater and the person too long?
- Has the device size been selected too small?
- Are there objects placed between the radiation heater and the person?
- **Device rating plates:** The rating plate contains the type-specific technical data. Depending on the arrangement, the rating plate of the device is placed vertically or horizontally, at the top or on the left on the device.

- Exemplary nameplate: Nameplate LAVA® BASIC-DM 700 W

GENERAL WARRANTY CONDITIONS

Dear customer,


please observe our general terms and conditions. Country-specific legal entitlements apply to warranty claims; please assert such rights directly through your distributor.

ATTENTION: Many old electrical and electronic devices contain valuable materials. However, they can also contain harmful substances which were required for their operation and safety. Such substances may damage the environment if disposed of in residual waste or handled incorrectly. Please help us to protect the environment. Do not place your old devices in the residual refuse. Dispose of your old device in accordance with applicable local regulations. Properly dispose of packaging material, future replaced parts and/or components.

RESERVATION: We reserve the right to make technical changes. Modifications, errors and misprints shall not constitute grounds for damages.

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Documents / Resources

 <p>LAVA® BASIC-DM 740 Infrared Heating</p> <p>ETHERMA®</p>	<p>ETHERMA LAVA BASIC-DM 740 Infrared Heating [pdf] Instruction Manual LAVA BASIC-DM 740 Infrared Heating, LAVA, LAVA Infrared Heating, BASIC-DM 740, BASIC-DM 740 Infrared Heating, Infrared Heating, Heating</p>
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References

-  [ETHERMA - Electric heating & infrared heating](#)