WONDERWALL SMART

Infrared Heater

10049164 10049165 10049166

KLARSTEIN

www.klarstein.com

Rev: 06/26

Note: This product is only suitable for well-insulated spaces or occasional use.

Dear Customer,

Thank you for purchasing this appliance. Please read this manual carefully and follow the instructions below to prevent damage. The manufacturer accepts no liability for damage resulting from improper use or failure to follow these instructions. Scan the QR code to get access to the latest user manual and other information about the product.

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TECHNICAL DATA

Item number	10049164	10049165,	10049166
Power supply	220-240 V ~ 50/60 Hz		
Power	720 W	600 W	300 W
Dimensions (W x H x D)	120 x 60 x 5 cm	100 x 60 x 5 cm	100 x 30 x 5 cm
Weight	5.96 kg	5.1 kg	3.10 kg
Indicative area	7-14 m²	6-12 m²	3-7 m²
Protection class	IP24		
Wi-Fi standard	802.11 b/g/n		
Wi-Fi frequency	2.4 GHz		
Wi-Fi radio-frequency power (max.)	20 dBm		

PRODUCT DATA SHEETS

Model identifier(s):	**10049164**					
Item	**Symbol**	**Value**	**Unit**		**Item**	**Unit**
Heat output					**Type of heat output/room temperature control**	
Nominal heat output	P_{nom}	0.72	kW		single stage heat output and no room temperature control	no
Minimum heat output (indicative)	P_{min}	0.72	kW		Two or more manual stages, no room temperature control	no
Maximum continuous heat output	$P_{max,c}$	0.72	kW		With mechanical thermostat room-temperature control	no
Power consumption					With electronic room temperature control	no
In off mode	Po	0.00	W		Electronic room temperature control plus day timer	no
In standby mode	Psm	0.35	W		electronic room temperature control plus week timer	yes
In idle mode	Pidle	0.83	W		**Other control options (multiple selections possible)**	
In network standby	Pnsm	0.79	W		room temperature control, with presence detection	no
Standby mode with display of information or status			yes		Room temperature control, with open window detection	yes
Seasonal space-heating energy efficiency in active mode	$n_{S, on}$	94	%		Remote-control option	yes
					Adaptive start control	no
					Working time limitation	yes
					Black bulb sensor	no
					Self-learning functionality	no
					Control accuracy	no
Contact details	Chal-Tec GmbH, Mühlenstraße 25, 10243, Berlin, Germany					

Model identifier(s):	**10049165**					
Item	**Symbol**	**Value**	**Unit**		**Item**	**Unit**
Heat output					**Type of heat output/room temperature control**	
Nominal heat output	P_{nom}	0.6	kW		single stage heat output and no room temperature control	no
Minimum heat output (indicative)	P_{min}	0.6	kW		Two or more manual stages, no room temperature control	no
Maximum continuous heat output	$P_{max,c}$	0.6	kW		With mechanical thermostat room-temperature control	no
Power consumption					With electronic room temperature control	no
In off mode	Po	0.00	W		Electronic room temperature control plus day timer	no
In standby mode	Psm	0.35	W		electronic room temperature control plus week timer	yes
In idle mode	Pidle	0.83	W		**Other control options (multiple selections possible)**	
In network standby	Pnsm	0.79	W		room temperature control, with presence detection	no
Standby mode with display of information or status			yes		Room temperature control, with open window detection	yes
Seasonal space-heating energy efficiency in active mode	$n_{S, on}$	94	%		Remote-control option	yes
					Adaptive start control	no
					Working time limitation	yes
					Black bulb sensor	no
					Self-learning functionality	no
					Control accuracy	no
Contact details	Chal-Tec GmbH, Mühlenstraße 25, 10243, Berlin, Germany					

Model identifier(s): 10049166					
Item	Symbol	Value	Unit	Item	
Heat output				**Type of heat output/room temperature control (select one)**	
Nominal heat output	Pnom	0.3	kW	Single stage heat output and no room temperature control	No
Minimum heat output (indicative)	Pmin	0.3	kW	Two or more manual stages, no room temperature control	No
Maximum continuous heat output	Pmax,c	0.3	kW	With mechanical thermostat room-temperature control	No
Power consumption				Electronic room temperature control plus day timer.	No
In off mode	Po	0.00	W	Electronic room temperature control plus week timer	Yes
In standby mode	Psm	0.35	W	**Other control options (multiple selections possible)**	
In idle mode	Pidle	0.83	W	Room temperature control, with presence detection	No
In network standby	Pnsm	0.79	W	Room temperature control, with open window detection	Yes
Standby mode with display of information or status			Yes	Remote-control option	Yes
Seasonal space-heating energy efficiency in active mode	$\eta_{s,on}$	94	%	Adaptive start control	No
				Working time limitation	Yes
				Black bulb sensor	No
				Self-learning functionality	No
				Control accuracy	No
Contact details	Chal-Tec GmbH, Mühlenstraße 25, 10243 Berlin, Germany				

SAFETY INSTRUCTIONS

Read these instructions carefully before installing or using the appliance. Retain the manual for future reference and pass it on to any subsequent owner.

Symbol	Explanation
	**WARNING:** Indicates a hazardous situation which, if not avoided, could result in serious injury or death.
	**CAUTION:** Indicates a potentially hazardous situation which may result in minor injury or damage to the appliance.
	**WARNING:** Risk of electric shock.
	**WARNING:** Risk of fire.
	**Note:** Offers helpful tips and information for using your appliance.
	**WARNING**: Beware of hot surfaces.
	**WARNING:** This appliance must not be used by children.

General safety

- This appliance is intended for indoor household use only. Do not use it for commercial, industrial or outdoor purposes.
- Use the appliance only for heating indoor spaces and only as described in this manual.
- Do not use the appliance until it has been correctly and securely installed in accordance with the installation instructions.
- Before connecting the appliance, check that the voltage and frequency stated on the rating plate correspond to the local mains supply.
- Do not operate the appliance if it, the mains cable or the plug is visibly damaged, if it has malfunctioned or if it has been dropped or otherwise damaged.
- Do not modify, dismantle or attempt to repair the appliance yourself. There are no user-serviceable parts inside.
- Repairs must be carried out by the manufacturer, its authorised service agent or a similarly qualified person.
- Do not leave the appliance unattended while it is operating.
- Switch off and disconnect the appliance from the mains supply when it is not in use, before cleaning and before carrying out any maintenance.
- Always allow the appliance to cool completely before touching, cleaning or storing it.
- Never immerse the appliance, mains cable or plug in water or any other liquid.
- Do not operate the appliance with wet hands.
- Do not insert fingers or objects into any opening in the appliance.
- Do not use the appliance in areas containing explosive or flammable vapours, dust or substances.
- Do not use the appliance to dry clothes, towels or other items.

Electrical safety

- Connect the appliance only to a properly installed and easily accessible socket.
- If the appliance is supplied with a UK plug, it must be a compliant BS 1363 plug fitted with a correctly rated BS 1362 fuse.
- Never replace the fuse with one of a higher rating. The correct fuse rating is marked on the plug or specified in the technical data.
- Do not use the appliance with an extension lead, multi-socket adaptor or portable power strip.
- Never pull the mains cable to disconnect the appliance. Switch off the socket and pull the plug itself.
- Do not route the mains cable under carpets, rugs or furniture.
- Protect the mains cable from sharp edges, hot surfaces, crushing and other damage.
- Position the cable so that it cannot be pulled, trapped or create a tripping hazard.
- Do not allow the mains cable to touch the hot surfaces of the heater.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or a similarly qualified person in order to avoid a hazard.
- Where the appliance is permanently connected to the electrical installation, the connection must be made by a competent electrician in accordance with the current edition of BS 7671 and the applicable national Building Regulations.
- A permanently connected appliance must be provided with a suitable means of disconnection from the mains supply in accordance with the applicable wiring regulations.
- For Class I appliances, the appliance must be connected to a protective earth.
- The plug or electrical isolation device must remain accessible after installation.

Installation and positioning

- Install the heater only in the position and orientation specified in this manual.
- Before drilling, check the installation area for concealed electrical cables, water pipes and other services.
- Ensure that the wall and mounting hardware are suitable for the weight of the appliance.
- Use only the mounting components supplied or expressly recommended by the manufacturer.
- Do not install the appliance on a combustible, unstable or heat-sensitive surface.
- Do not install the heater directly below or in front of a socket outlet.
- Do not install the appliance on a ceiling unless it is expressly designed and approved for ceiling installation.
- Observe all minimum installation distances specified in this manual.
- Keep furniture, curtains, bedding, paper, clothing and other combustible materials at least 1 metre away from the heat-emitting surface.
- Do not install or operate the appliance behind curtains, doors or furniture or inside cupboards or other enclosed spaces.
- Ensure that air can circulate freely around the appliance. Never block any ventilation openings.
- Do not use the heater with an external switching device, such as a timer, programmable plug or third-party remote-control system, or connect it to a circuit that is regularly switched on and off. This could unintentionally reset the thermal cut-out and create a fire hazard. This restriction does not apply to controls supplied or expressly approved by the manufacturer.



WARNING: Do not cover!
To prevent overheating and the risk of fire, do not cover the heater. Do not place clothing, towels or other objects on the appliance.

Use in bathrooms and wet areas

- Do not install or use the appliance in areas where there is a risk of it coming into contact with water, such as near a bath, shower or swimming pool, unless the appliance is expressly approved and marked for such use.
- If installing the appliance in a room containing a bath or shower, ensure that it complies with the required bathroom zones, IP rating and RCD protection specified by the current edition of BS 7671.
- The heater must be installed in such a way that the switches, controls and electrical connections cannot be touched by someone in the bath or shower.
- Installation in bathrooms and electrical connection must be carried out by a competent electrician.

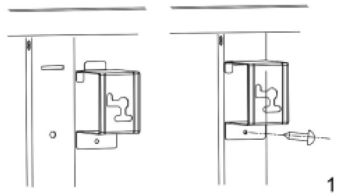
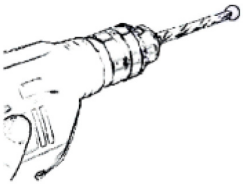
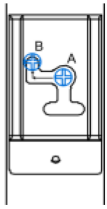
Children and vulnerable persons

- Children under 3 years of age must be kept away from the appliance unless they are continuously supervised.
- Children aged from 3 years and under 8 years may switch the appliance on or off only if it has been installed in its intended normal operating position and they have been supervised or instructed in its safe use and understand the hazards involved.
- Children aged from 3 years and under 8 years must not connect the appliance to the mains supply, adjust or clean it, or carry out user maintenance.
- This appliance may be used by children aged 8 years and above and by persons with reduced physical, sensory or mental capabilities or a lack of experience and knowledge only if they have been supervised or instructed in its safe use and understand the hazards involved.
- Children must not play with the appliance.
- Cleaning and user maintenance must not be carried out by children without supervision.
- Keep packaging materials away from children. There is a risk of suffocation.
- Do not use the heater in a small room occupied by persons who are unable to leave the room independently unless constant supervision is provided.
- Do not touch the heat-emitting surface during operation or immediately after use. If overheating, an unusual smell, smoke or abnormal noise occurs, switch off the appliance, disconnect it from the mains supply and contact an authorised service centre.

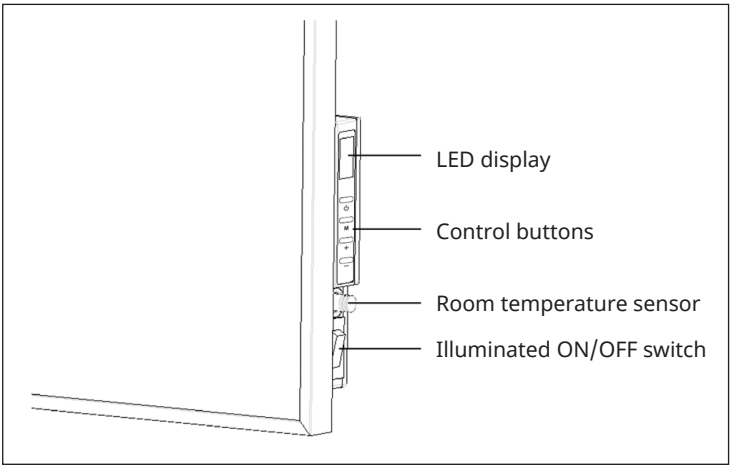


WARNING: Risk of burns!
Some parts of this appliance can become very hot and cause burns. Particular attention must be paid where children and vulnerable persons are present.

WALL MOUNTING INSTRUCTIONS

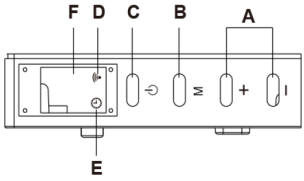
 1	Remove the four mounting brackets and their screws from the packaging. Secure the brackets to the rear of the heater as shown.
 2	Mark the four hole positions on the wall, then drill the holes using a bit suitable for the wall plugs and wall material.
 3	Insert the wall plugs into the holes.
 4	Insert the metal screws into the wall plugs..
 5	Align the four keyhole slots with the screw heads, engage the screws and slide the heater into the locked position B.

PRODUCT OVERVIEW



CONTROL PANEL

A	Increase/Decrease button
B	Timer and Wi-Fi button
C	Power button
D	Wi-Fi light
E	Timer light
F	Display



OPERATION

Getting Started

1. Check the heater to be sure it is not damaged.
2. Insert the plug into a suitable socket outlet.
3. Turn the main switch on: the light will turn on and the heater is in standby mode
4. Now press the ON/OFF switch: the heater will start working. The display will show the room temperature.
5. Press the ON/OFF button first in order to switch the device off. The heater is now in standby mode. Now switch the main switch off (O); the lamp will go out. Finally remove the plug from the socket.

Thermostat

1. If you press the + or - key, the temperature setting flashes five times on the display.
2. You can adjust the temperature setting by pressing the + or - key while it is flashing. With each key press, the temperature will be increased (+) or decreased (-) by one degree.
3. The device will retain the temperature setting by switching itself on and off automatically.

Timer

- Briefly pressing once on the M button will switch the timer on. The timer indicator lights up and the display will blink.
- You can set the time when the heater is to switch itself off by pressing the [+] or [-] buttons: with each press the setting increases or decreases by one hour. The setting is saved after the display has flashed five times without further input.
- The display will now alternately show the room temperature and the set number of hours. The display will then go off.
- The heater will switch itself off after the set number of hours.

Wi-Fi setup

Pairing mode

When the heater is powered on, the Wi-Fi symbol will not flash automatically. To enter pairing mode, press and hold the "M" button for approximately 3 seconds until you hear a beep. The blue Wi-Fi symbol will then flash rapidly (twice per second), indicating that the heater is in pairing mode. You can now connect the heater to your smartphone via Wi-Fi.

Reset Wi-Fi setting

When you power on the machine, the Wi-Fi symbol will not flash automatically. You need to press and hold the M button for around three seconds until you hear a beep. This will reset the Wi-Fi settings and the blue light will flash rapidly (twice per second). The maximum time for network configuration is 180 seconds. After this, pairing mode will need to be reactivated. Hold the Wi-Fi button for three seconds.

APPLIANCE CONTROL BY SMARTPHONE

If you integrate the heater into your home Wi-Fi, you can conveniently operate it via the associated Klarstein app. The app not only allows you to remotely control the heater via your smartphone, but also gives you access to recipes and additional information.

Follow these steps to connect your smartphone to your Klarstein appliance:

1 Download the Klarstein app first by scanning the QR code with your smartphone (see below), or download it directly from the Apple App Store or Google Play.
2 Make sure your smartphone is connected to the same Wi-Fi network that your Klarstein appliance is to be connected to.
3 Open the Klarstein app.
4 Sign in to your account. If you do not have an account, sign up in the Klarstein app.
5 Follow the instructions from the app.

App Download

Use the scan function of your smartphone to scan the QR code and save the app on your smartphone.

Note: The app provides further information on how to use the app and help on how to connect to your heater as soon as you open it for the first time.

iOS	Android

Troubleshooting connection problems

If your Klarstein device cannot be found in the Wi-Fi, check the following:

1 The device is not plugged in. Make sure that your device is plugged into an electric socket.

2 The device is not in pairing mode. Make sure that the Wi-Fi indicator (LED) on the smart device control panel is blinking as described in the 'Reset Wi-Fi settings' instruction of your smart device (instructions are usually available on device connection process).

3 The Wi-Fi access point does not operate on 5 GHz. Make sure that your access point operates on 2.4 GHz band and you have a separate SSID on 2.4 GHz band. If you are not sure about the operating band of your access point, please contact your internet service provider.

Important: please note that if your Wi-Fi router is dual band - operating on both 2.4 GHz and 5 GHz band - you need to separate the SSIDs for each band and use the 2.4 GHz SSID for connection.

4 Firewall settings of your Wi-Fi network; the firewall setting of your Wi-Fi network may not allow the Klarstein app to configure the Wi-Fi settings on your smart device. Please make sure that you are not using a public Wi-Fi network, e.g. airports, dormitories, companies, etc.

5 Different credentials used in smartphone and the app. Make sure that the Wi-Fi credentials entered in the Klarstein app are the same as the ones that your smartphone is connected to.

If the problem persists after completing these checks, contact Klarstein support at: appsupport@klarstein.com

CLEANING AND CARE

- Turn the appliance off and disconnect it from the mains supply and allow it to cool completely before cleaning.
- Do not spray water or cleaning agents directly onto the appliance.
- Do not use abrasive cleaners, solvents, scouring pads or sharp objects.
- Keep ventilation openings free from dust and obstruction.
- Inspect the appliance, plug and mains cable regularly for signs of damage. Do not continue using the appliance if damage is found.
- The outside can be cleaned by wiping it over with a soft damp cloth and then dried.
- Do not use abrasive cleaning powders or furniture polish, as this can damage the surface finish.
- To release the heater from the wall, for cleaning or redecoration, follow the removal procedure in the Installation section. Support the heater while releasing it from the wall brackets.
- For storage, disconnect the heater, allow it to cool completely and keep it in a clean, dry place. Protect it from dust only after it has been disconnected and has cooled completely. Never cover the heater during operation.

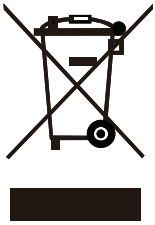
TROUBLESHOOTING

If your heater fails to operate, please follow these instructions:

- Ensure that your circuit breaker or fuse is working properly.
- Be sure the heater is plugged in and that the socket outlet is working properly.
- If the ON/OFF switch does not illuminate when in the ON position, stop using the heater and contact an authorised service centre for repair.

Note: If you experience a problem with your heater, please see the warranty information for instructions. Please do not attempt to open or repair the heater yourself. Doing so may void the warranty and could cause damage or personal injury. If the problem still persists, please contact the distributor.

DISPOSAL CONSIDERATIONS



If there is a legal regulation for the disposal of electrical and electronic devices in your country, this symbol on the product or on the packaging indicates that this product must not be disposed of with household waste. Instead, it must be taken to a collection point for the recycling of electrical and electronic appliances. By disposing of it in accordance with the rules, you are protecting the environment and the health of your human health from negative consequences. For information about the recycling and disposal of this product, please contact your local authority or your household waste disposal service.

DECLARATION OF CONFORMITY

CE

Manufacturer & Importer for Great Britain:
Chal-Tec GmbH, Mühlenstraße 25, 10243 Berlin, Germany.

Contact: info@klarstein.com

Hereby, Chal-Tec GmbH declares that the radio equipment type Wonderwall Smart is in compliance with the relevant statutory requirements. The full text of the declaration of conformity is available at the following internet address: use.berlin/10049164

