INSTRUCTION MANUAL







CALMA 40x39 / CALMA 43x40

Manufacturer:

The Hitze brand is owned by STALKO Spółka z ograniczoną odpowiedzialnością sp. k. ul. Solec 24/253, 00-403 Warsaw

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Keep this manual together with the device. The document contains all the information necessary for proper installation and use of the device described in it. The manual has a warranty card and installation and inspection protocols. To install, proceed after fully understanding the contents of the manual.

www.hitze.pl

INSTALLATION AND OPERATING INSTRUCTIONS FOR CONVECTION SPACE HEATER GAS CALMA

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ATTENTION

The manual contains all the necessary information on the proper connection, commissioning and operation of gas appliances of the CALMA series. Both the installer and the user of the appliance should familiarize themselves with all the information contained in the manual. The manufacturer is not responsible for damages and malfunctions of the appliance caused by failure to follow the guidelines contained in this manual.

Installation, leakage control, inspection and maintenance, may only be carried out by a qualified person possessing the relevant authorizations in force in the country and region where the heater is installed. Connection to chimney flues, wall and roof penetrations, and all kinds of components used for fireplace installation should be carried out in accordance with applicable building code standards.

The installer of the device is responsible for:

- Verification of local gas distribution conditions.
- Verify the heater settings.
- Checking the completeness of the device and detecting any damage caused during transport of the heater.
- Proper placement of the heater.
- Preparing the chimney installation and connecting the heater under it.
- Connecting to the gas system, venting and starting the heater.
- Checking the tightness of all connections included in the internal gas installation of the appliance and the connection made.
- Familiarize the user with the basic functions of the fireplace.
- Filling in the table with the type of gas and destination countries.
- Completion and signing of the device installation protocol.

The user (purchaser) of the device is responsible for:

- Obtain information and inform the installer about local gas distribution conditions.
- Making a gas connection at the location designated by the installer.
- Familiarize yourself with the safety rules when operating a gas fireplace.
- Getting acquainted with how to control a gas fireplace.
- Keep the instructions and documentation provided with the fireplace.
- Order periodic inspections of both the installed device and the associated air and combustion system.
- Training in operation and safety rules, other potential users of the device.

ATTENTION

Before installation, check the local distribution conditions (identify the type of gas and its pressure) and whether the current setting of the heater is correct.

CALMA brand gas heaters are CE marked and have been tested for compliance with EN 613 Convectional gas-fired space heaters by KIWA Netherlands (NB0063). All gas appliances sold under the Hitze brand and the components used in them meet the requirements of Regulation (EU) 2016/426 of the European Parliament and of the Council (GAR) of March 19, 2016 and are authorized for sale throughout the European Union. The heaters meet the requirements contained in Directives 2014/35/EU (LVD) of February 26, 2014 and 2014/30/EU (EMC) of February 26, 2014.

The devices listed in this manual meet the requirements of Commission Regulation (EU) 2015/1188 of April 28, 2015 implementing Directive 2009/125/EC of the European Parliament and of the Council (Ecodesign). All Hitze brand heaters have a seasonal energy efficiency greater than 72%, while their emissions of nitrogen oxides converted on the basis of GCV do not exceed 130

mg/kWhinput*

CALMA series gas heaters have been adapted to work with a concentric air and flue gas system, which makes the devices suitable for successful use in houses with recuperation.

UWAGA

If you smell gas while operating the appliance, immediately turn off the fireplace, cut off the fuel supply to the appliance, disconnect the power supply to the electrical circuit, ventilate the room and contact the service department.

READ THE FOLLOWING SAFETY INFORMATION CAREFULLY, AS FAILURE TO FOLLOW IT MAY RESULT IN SERIOUS INJURY OR EVEN DEATH:

- Any modifications beyond those specified in the manual are strictly prohibited.
- The device works only with the gas for which it was factory-adapted.
- Heaters working with propane gas or propane-butane gas mixtures (heavier-than-air gases) must not be installed in rooms below ground level.
- If the appliance malfunctions, cut off the gas supply, disconnect the power supply and contact the service center.
- Children and other unconscious persons, the infirm and other persons requiring special attention should remain under special supervision when using the heater.
- All parts of the device including its glazing are working surfaces. It is forbidden to touch the working device, as it heats up to high temperatures. The device is operated from a wireless remote control.
- The device cannot be operated without the glazing installed. In case of any damage to the glazing, it must be replaced immediately.
- Automation components should not be exposed to moisture and dust.
- When servicing the device, use only materials and components supplied by the manufacturer.
- Only decorative elements supplied by the manufacturer can be installed in the device. How to install the elements is shown in this manual.
- The ceramic billets used in the appliance are components of the gas burner. It is forbidden to make modifications in their arrangement.
- There must be no combustible materials in the vicinity of the working device.
- Curtains and other flammable materials must not be placed directly above the device and at a distance of at least 2 m.
- If the control flame goes out during operation, wait a minimum of 10 minutes before restarting the device.
- If the device does not turn on after 5 attempts during the first startup, wait 5 minutes before carrying out another firing procedure.
- If the heater will not be used for a long time, the gas supply should be shut off.

DESCRIPTION OF DEVICE

CALMA series gas heaters are modern, compact devices that can work with G20 (high cometane natural gas), G27 (nitrogenated natural gas), G30 (propane-butane gas mixture) or G31 (propane gas). The heaters are operated remotely by remote control. The gas installation installed in the cassettes of the CALMA series is complete and requires the installer only to connect the gas. The heaters are adapted for cooperation with a concentric system based on two coaxial pipes with a circular cross-section, the outer of which supplies air to the combustion chamber, and the inner of which is responsible for the discharge of flue gases. The body of the appliance is made of high-quality boiler plate, 2 mm thick. The back wall of the combustion chamber can be lined with steel or decorative glass elements. The devices have in their construction an innovative door closing system, which is also an anti-explosion protection, which, combined with the anti-explosion protection in the form of a control burner module, makes them fully safe, even in the case of unforeseen random events.

Gas heaters can be delivered to the customer complete with a dedicated housing, providing simple installation and the required expansion joints necessary for the proper operation of the fireplace.

TYPES OF GAS AND COUNTRIES DESTINATIONS

Device model	Category	Pressure and type of gas	Pressure and type of gas					
CALMA 40x39	2E	20 mbar, G20		А				
CALMA 43x40	2Н	20 mbar, G20		В				
	2Lw	20 mbar, G27		С				
	3B/P	30 mbar, G30		D				
	ЗР	37 mbar, G30		E				
		50 mbar, G30		F				
		30 mbar, G31		G				
		37 mbar, G31		н				

Α	DE, PL, RO
в	AT, CH, CY, CZ, DK, DE, EE, ES, FI, GB, GR, HR, IE, IT, LT, LU, LV, NO, PT, RO, SE, SI, SK, TR
с	EN
D	BE, CY, DK, EE, FR, GB, GR, HU, HR, IT, LT, NL, NO, RO, SE, SI, SK, TR
E	EN
F	AT, CH, DE, SK
G	FI, NL, RO
н	BE, CH, CZ, ES, FR, GB, GR, HR, IE, IT, LT, NL, PL, PT, SI, SK

PARAMETERS AND SETTINGS

CALMA 40x39 / CALMA 43x40

		Reference gas												
Parameter	Unit	G20	G27	G30	G31									
Рр	mbar	20	20	29/37/50	29/37/50									
P reg Qn	mbar	12,5	17,0	8,6	11,6									
P reg Qm	mbar	5,6	7,5	3,5	5,0									
Qn/Qm	kW	4,6/3,0	4,2/2,7	4,3/2,7	4,3/2,8									
V Pn/V Pm	m3/h	0,486/0,319	0,535/0,353	0,130/0,083	0,174/0,112									
η	%	85,1	85,1	86,5	87,3									
EEI	-	84,4	84,4	85,8	86,6									
NOx class*	-	4	4	5	5									
Weight**	kg		5	60										

* nitrogen oxides emission level according to EN 613. ** unbuilt insert

Pp - nominal connection pressure

P reg Qn - pressure after regulator for nominal power P

reg Q m - pressure after regulator for minimum power

Qn - nominal power according to Hi

Qm - minimum power according to Hi

V~Pn - stream of consumed gas for nominal power V Pm - stream of consumed gas for minimum power η - efficiency of the device EEI - energy efficiency index

- <i>(</i>	Marking and position of t	he nozzle in the dispenser
Type of gas	Left	Rights
G20/G27	16	16
G30/G31	12	1

INSTRUCTIONS INSTALLATION

ATTENTION

Installation of the gas fireplace heater, may only be carried out by a qualified person with the appropriate authorization. The connection to the gas system, the connection of the flue pipe, wall and roof penetrations, and all kinds of elements used for the installation of the fireplace should be made in accordance with the standards of the construction law in force in the country and region where the heater is installed.

■ LOCATION OF DEVICE

Gas heaters of the CALMApowers series should be installed on a stable, non-combustible surface that has the required notability. The device should be placed a minimum of 1.2 meters from combustible materials. The location of the heater should provide the least number of bends of the coaxial system that works with it, and ensure the easiest possible routing of the gas supply line. The fireplace should be located a minimum of 30 mm from noncombustible walls. The increase in the temperature of the walls exposed directly to the fireplace should not exceed the ambient temperature by more than 80

°C. The heater is equipped with feet with infinitely adjustable height in the range of 0-25 mm. The use of feet allows you to level the cartridge without problems.

CALMAmog heaters can be delivered to the customer complete with a dedicated housing, providing simple installation and the required expansion joints necessary for proper operation of the fireplace. The enclosure, together with the appliance, should be installed on a non-combustible surface. The appliance, including the enclosure, should be placed a minimum of 1.2 meters from combustible materials. Between the rear wall of the enclosure and the noncombustible wall on which the set is installed, a gap of at least 20 mm should be maintained.

ATTENTION

Gas heaters that work with heavier-than-air gases may not be installed in rooms below ground level, as well as in rooms with ventilation ducts, the termination of which is located in a place where gas can accumulate without the possibility of drainage.

■ INSTALLATION CHIMNEY

CALMA series gas heaters have been adapted for cooperation with concentric air and flue gas systems from POUJOULAT, model BI-GAS and DUO-GAS in sizes 150/100. These systems work in negative pressure, which eliminates the need to stand additional seals. The individual elements are connected to each other using a dedicated clamp. The system is made of acid-resistant steel and can be used in solutions where the temperature of flue gases in the heater does not exceed 600 °C. The systems can be purchased directly from the appliance manufacturer, from online stores or from local stores listed at www.poujoulat.pl. The chimney systems used for Hitze gas appliances can be routed out through the side wall of the building (**type C11** system), through the roof (**type C31** system), or use an existing co- min (**type C91**). Connection under the chimney system, system routing, distances from combustible materials, roof and wall penetrations, sealing and insulation should be made in accordance with the relevant regulations of the country or region where the appliance is installed. When designing the chimney system, all impediments related to wind pressure on the terminal should be taken into account.

The cable exit through the wall - type C11.

- CALMA heater (the connection of the concentric system is located on top of the appliance) in this type of solution chimney sys- tem, you need to start with a component with a minimum length of 1 meter. Leading the chimney through the side wall, only one 90° elbow can be used, and the length of the horizontal section must not exceed 3 meters. The termination of the concentric system should be made using a dedicated horizontal terminal. In order not to disturb the air flow, the horizontal section should be leveled.
- CALMA heater with a dedicated housing (the connection of the concentric system is located on the rear wall of the device). the air and flue system can be routed out without the need for 90° elbows, directly through the building wall by means of a horizontal section. This type of solution is allowed if the CALMA heater is installed so that its horizontal terminal is 2.5 meters above ground level. In this case, use a horizontal section with a maximum length of 2 meters.

The cable outlet through the roof - type C31.

The recommended length of the flue pipe leading through the roof is a maximum of 10 meters and depends on the number of elbows used. It is assumed that the use of a 45° elbow shortens the permissible length of the flue by 1 meter, and a 90° elbow by 2 meters. Each section routed horizontally is treated as 2 meters. If the c h i m n e y is routed in a C31 system, the first vertical section of 0.5 to 1 meter is allowed. At the end of the chimney system, a vertical terminal must be used.



Fig. 1. Basic variants of the air and flue gas system cooperating with heaters of the CALMA series (from left: type C11, C31, C91)

Exit duct using the existing chimney - type C91.

- CALMA heater (the connection of the concentric system is located on top of the device) in this solution, the chimney installation is led out vertically as in the case of C31. A vertical section of 0.5 to 1 meter is mounted on the heater, and then, using a 45° or 90° elbow and a horizontal element, the concentric system is inserted into the existing chimney. Then only the internal flue pipe is run through the entire length of the chimney. At the end of the chimney, the concentric element should again be used in the form of a vertical terminal.
- CALMA heater with a dedicated housing (the connection of the concentric system is located on the rear wall of the device). In this solution, the chimney installation is brought out vertically as in the case of C31. Using a horizontal element, the concentric system is inserted into the existing chimney. Then only the internal flue pipe is routed through the entire length of the chimney. At the end of the chimney, use the concentric element again in the form of a vertical terminal.

The connection between the chimney and the concentric system should be tight on both sides of the installation. The chimney used must be clean, tight and unobstructed. The minimum diameter of the chimney used is 150 mm. For chimneys with a rectangular cross-section, their cross-flow area must not be less than 225 cm2. The recommended maximum length of the section of the concentric system run inside the chimney is 7 meters.

■ FLOW RESTRICTOR SETTINGS FLUE GAS

CALMA series gas heaters have been adapted to work with the widest possible configuration of chimney systems, for this reason, in the construction of their deflectors, removable diaphragms are used, the flow cross-section of which is adapted to the way the air and flue gas system is routed. In the case of a system terminated with a horizontal terminal, the diaphragm must be removed from the deflector. The installation must ensure a chimney draught of at least 6 Pa.



Fig. 2. Removal of the aperture in the deflector

■ GAS INSTALLATION AND CONNECTION FOR GAS CONNECTION

CALMA series gas heaters are factory-adapted to work with a particular type of gas and at a particular pressure. Gas fittings and pressure settings are set by the manufacturer and it is forbidden to make any modifications. **The device works only with the gas for which it was factory-adapted.** All necessary information on the heater settings can be found on the appliance rating plate. **Connecting to the device gas with pressure higher than 50 mbar will cause damage to its automatics.**

ATTENTION

Make sure that the gas system has the right gas at the right pressure. During the installation of gas space heaters, the use of open flames is prohibited. All installation and service work should be carried out with the gas supply cut off and the power source disconnected. It is forbidden to make any changes in the construction of the device. Extension/shortening of gas lines, spark gap and thermocouple cable is strictly prohibited. All unused connections in the gas in- stalation should be tightly plugged. It is forbidden to use the screws located in the controller housing. Failure to follow the guidelines may result in explosion, fire, injury or even death.

Appliances manufactured under the Hitze brand are equipped with high-end gas automation. The automation used meets the requirements of the GAR 2016/426 regulation and is designed to work with gases of the II and III family according to PN-EN 437:2003+A1:2009 and the subject standard EN 613:2000+A1:2004. The gas installation, with which the heaters are equipped, is completely and requires the installer only to connect the fireplace to the power supply. Connecting the main gas inlet requires a gas connection located as close as possible to the appliance being installed. The connection should be equipped with a gas filter and a manual shut-off valve. The gas should be brought to the appliance by means of a flexible pipe with a 1/2-inch female thread. The pipe used should be free of impurities and should have the appropriate marking allowing it to work with the appropriate gas fuels. The connection should be sealed using a dedicated gasket to be supplied with the cable, or packing material together with sealing paste. Components of gas automation installed outside the heater body must not be exposed to temperatures higher than 50°C.



Fig. 3 Location of the gas connection in the control module

■ INSTALLATION ELECTRICAL

ATTENTION

The power supply can be connected only after the appliance is connected to the air and combustion system and the gas is connected. It is forbidden to make any modifications to the electrical system. When replacing, use only alkaline batteries.

The electrical system used in CALMA series heaters is complete and requires the installer to connect only the power source. In the remote control and the module responsible for controlling the fireplace, the appropriate batteries must be installed:

- Remote control 2 batteries of 1.5 V type AA
- Control module 3 batteries of 1.5 V type AA

Replacement of batteries in the devices does not necessitate a re-synchronization of the remote control with the ste- ing module. Batteries should be placed in the devices, following the markings marked in the place of their installation. New batteries should last for one heating season. Batteries should be replaced at least once a year. It is forbidden to use batteries of different types and those that have been exposed to moisture or high temperatures. When replacing batteries, do not use instruments that can cause a short circuit. It is forbidden to start the heater without the battery cover installed in both the remote control and the control module. Remove the batteries if the device will not be used for a long time.

All devices indicate the need to replace batteries. In the remotes, the symbols "**RC**" and "**FC**" are alternately displayed next to the battery indicator. "**RC**" indicates the level of battery charge in the remote control, while "**FC**" indicates the level of battery charge in the control module. If the battery in the control module is completely discharged, the display may show random error codes.

■ ARRANGEMENT OF DECORATIVE ELEMENTS

CALMA series gas appliances come with a dedicated set of ceramic billets. The billets are an integral part of the burner, so it is very important to arrange them. Elements installed on the profiles have a cavity at the bottom to facilitate the installation of billets. In the combustion chamber of the heater it is allowed to use additional decorative materials provided by the manufacturer and available in its current sales offer. The billets are arranged according to the following scheme.

Ceramic burner lining elements:







Fig. 4 Arrangement of decorative elements

■ INITIAL LAUNCH

The heater can be started only after connecting the chimney system, gas, and after the installation of ceramic logs and other decorative materials. The first start-up, should be done with the door open. The gas installation of the heater, should be vented several times by carrying out the firing procedure. If no flame appears on the control burner during kindling, the procedure will be repeated automatically two more times. A failed kindling procedure will cause an error to be displayed on the remote control, which must be reset.

Once the firing procedure is started, the control module will begin to generate a spark on the control burner periodically. Once the gas system is vented, a flame will appear on the control burner. Subsequently, the flame of the control burner will heat up the thermocouple, which will cause, the opening of the gas supply valve to the main burner. During the first start-up, the insta- lator is required to check the tightness of the gas installation of the heater, as well as the tightness of the made connection. After checking the tightness of the gas installation, extinguish the furnace, wait until the heated elements of the device reach ambient temperature, and then close the door.

Next, start the heater and make sure it is working properly. Perform the procedure of extinguishing and restarting the heater, increasing and decreasing the flame of the main burner in succession. The flame of the main burner will reach the optimal color and height when the device is completely extinguished.

During the first few hours of smoking, smoke may come out of the body of the device, accompanied by a characteristic odor. This is due to the phenomenon of the final curing of the paint. The first burning in the heater, should be done with a well-ventilated room.



ATTENTION

The enclosure should be made only after the gas heater is connected and put into trial operation. The casing should be made in accordance with the building regulations in force in the place of installation of the device. The casing must have inspection openings necessary for servicing the heater. During construction, the external elements of the heater's automatics must be protected from contamination.

The housing of the CALMA series gas heater must be made of non-combustible materials and should be a self-supporting structure. No part of the housing may be connected to the elements of the gas heater. The design of the housing must enable its disassembly without the possibility of damaging the heater installed in it. Walls of the casing should be distanced from the heater in such a way as to allow free air flow along its body. In the casing, holes should be provided in which grilles necessary for proper air circulation will be installed. The mounting system of the grilles should ensure their trouble-free removal. In the case of inadequate ventilation of the casing, the automation elements with which the heater is equipped will be exposed to overheating, which poses a danger to the user and may cause malfunction of the device. Control automatics used in CALMA series gas heaters must not be exposed to temperatures higher than 50°C (alkaline battery resistance). It is recommended that the opening for the inlet grille should have dimensions close to a square with a side of 18 cm. When selecting an outlet ventilation grille, it should be assumed that its flow area must not be less than 300 cm2. The **hole for the inlet grille, should be located in such a place that when the grille is removed, it can be used as a revision in case of servicing the device (checking for leaks, replacing the battery).** Heaters intended for independent housing are delivered to the customer with a dedicated blind, which should be installed after the construction.



Fig. 5 Diagram of an example development



Fig. 6 Installation of the grille in heaters of the CALMA series

CALMA series gas heaters can also be delivered to the customer with a dedicated housing. Depending on the version of the housing, it can be assembled as a whole, or delivered in separate modules. The housing supplied by the manufacturer posesses all the necessary expansion joints and revisions necessary for trouble-free servicing of the device.

installation of additional modules - CALMA 43x40

CALMA 43x40 is a free-standing gas fireplace, which does not require traditional installation. The installation of the fireplace, as well as all accompanying operations, should be carried out based on the information contained in the other sections of this manual. The fireplace housing has four adjustable feet, holes for gas connection and dedicated holes to ensure proper air circulation along the entire body of the heater. The heater, depending on the individual preferences of the user, can be expanded with additional modules.



Fig. 7 CALMA 43x40 - example configurations

Additional modules are available at www.hitze.pl. The fireplace can be expanded to include an alcove for storing wood, or imitation wood. The additional module consists of a frame, a rear bezel and a front cover. To install the module below the firebox, first unscrew the four adjusting feet. Then, in place of the adjusting feet, screw the frame of the module, to which the rear bezel is screwed in a further step. The front bezel cover should be inserted into the structure thus prepared. Depending on your needs, the enclosure can be expanded with another module following the same procedure, or a wood recess can be installed. It should be remembered that the previously de- assembled adjusting feet should be screwed into the last element.

To expand the heater with another upper module, remove the top cover of the fireplace and in its place screw the module frame, to which the rear bezel is screwed and the front cover is inserted. The module frame installed above the combustion chamber is screwed on inversely to the frame screwed below the combustion chamber. After installing the last module above the combustion chamber, install the top cover of the heater.





Fig.10. CALMA 43x40 - installation of the recess on the wood module



Fig.11. CALMA 43x40 - installation of the module above the combustion chamber

Wall mounting - CALMA 43x40

The structure of the CALMA 43x40 heater as standard is adapted for hanging it on the wall. The wall on which the fireplace is to be installed should be non-combustible and have adequate load-bearing capacity. In order to be able to hang the fireplace on the wall, first of all you need to remove its rear bezel, which is used as a fastening element.

First, remove the top cover of the fireplace and unscrew its adjusting feet. Next, remove the rear fireplace bezel by unscrewing its upper and lower mounting screws, and then remove the lower and upper front cover of the fireplace. The removal of the rear fireplace bezel is shown in Figure 13. The rear fireplace bezel should be leveled and screwed to the wall using four wall plugs.

To install the fireplace on the wall, tilt it as shown in Figure 16 and insert it from the bottom into the bezel installed on the wall. After that, lift the fireplace up as much as possible and place it parallel to the wall, then lower it onto the top of the bezel. In this position, screw the lower and upper screws securing the heater to its rear bezel. Level the fireplace during this step. The two outer top mounting screws are used to level the fireplace up and down.



Fig. 12. CALMA 43x40 - removal of the lower and upper screws securing the rear bezel



Fig. 13. CALMA 43x40 - removal of the rear grille



Fig. 14 CALMA 43x40 - removal of fireplace covers



Fig. 15. CALMA 43x40 - installation of the rear bezel on the wall



Fig. 16. CALMA 43x40 - mounting the fireplace on the wall



Fig. 17. CALMA 43x40 - mounting the fireplace on the wall



Fig. 18. CALMA 43x40 - mounting the fireplace on the wall

CHANGE OF SETTINGS HEATER

The manufacturer allows adjusting the heater to work with other gas than the gas specified on the label. **Changing the settings** of the device is chargeable and can be performed only by an authorized service of the manufacturer. After the operations, the service prepares an appropriate protocol in two copies for each party. The end user receives a new rating label from the manufacturer, which he places on the device in place of the previous one.



ATTENTION

It is forbidden to manually change the position of the dials on the controls. The control of the fireplace is done automatically. If the control flame goes out during a firing test, wait a minimum of 5 minutes before trying again. If the flame on the control burner does not appear after four consecutive attempts, cut off the gas supply to the appliance and contact service. This procedure applies to previously vented appliances. After extinguishing a heated appliance, wait a minimum of 5 minutes before reigniting it.

CALMA series gas heaters are controlled by a wireless remote control. The remote control acts as a thermometer and is used in thermostat mode, so it should be stored in a shaded place to eliminate errors associated with sunlight.

■ REMOTE CONTROL PAIRING

The remote control supplied with the device is already paired with the device at the factory. In case the automation does not respond to commands issued via the remote control, make sure that the batteries in the remote control and control module are not dead. If the batteries in the remote control are replaced, it is not necessary to enter a new transmission code. During pairing, the remote control should be as close as possible to the control module (not more than 1 meter).

Unlock the remote control and make sure the switch on the control module at the heater is in the ON (I) position. Press the and \bigcirc buttons on the mo- dule simultaneously . The red light on the module should start flashing rapidly. Release the buttons and press the On/Off button below within one second. If the above steps have been carried out correctly, the remote control will confirm with a beep, the green light on the remote control will start flashing, and the - symbol will appear on its display. To accept the pairing, press and hold the **SET** button for a few seconds. Confirmation of the correct synchronization of the remote control with the control module is a beep and the display of $\widehat{}$. After that, unlock the remote control and perform its configuration. Press the **SET** button to proceed to further settings, and press the **MODE** button to return to the previous option. To change the settings in an option, use the \bigoplus and \bigcirc buttons . After setting the time, temperature unit and display backlight, complete the setup by pressing and holding **SET**. **Do not perform the pairing procedure again if the remote control has already been synchronized correctly.**

To reset the connection between the remote control and the control module, unlock the remote control and enter the SETUP menu. Then, by pressing **SET**, go to the **"CAO"** setting. Changing the parameter value to **"CA1"** and confirming with the **SET** button will reset the connection between the remote control and the control module.

■ CONTROL WITH REMOTE CONTROL FB 868D (TESC)

To be able to control a heater equipped with TESC automation, make sure that the switch on the control module is in the ON (I) position. The remote control is within range of the control module if the display s h o w s the symbol .



- 1. Day of the week
- 2. Heater status
- 3. Battery indicator
- 4. Light sensor
- 5. Mode selection
- 6. Reducing the flame
- 7. Current mode
- 8. Field of hours and minutes
- 9. Connections to the heater
- 10. Ambient temperature
- 11. Pilot lock signaler
- 12. Making settings
- 13. Increase the flame
- 14. On/off

Fig. 19. FB 868D type remote control (TESC)

The remote control has an automatic safety feature. To unlock the device, place the remote control in your hand in such a way as to simultaneously activate the sensors located on both sides of the remote control. Unlocking the remote control is indicated by the green LED located above the SET button. To control the heater, the remote control must be unlocked.

■ TIME SETTINGS, TEMPERATURE UNIT, REMOTE CONTROL

Press and hold **SET** until you hear a beep. Release the button. The display will show a flashing thermometer symbol. Press **MODE** several times until the display in the upper right corner shows a flashing "**SETUP**". Press **SET** to be able to make new settings. In the menu, you can set the clock format, day of the week, current time, temperature unit, display backlight.

Use \bigoplus or \bigoplus to enter the settings for each parameter. To confirm your changes and move to the next parameter press **SET**. To return to the previous parameter press **MODE**.

Clock Format. Follow the instructions above. The **"H"** symbol displayed on the remote control indicates that you need to enter settings for the clock format. Using \bigoplus or \bigoplus or enter the time display format (12 or 24 hours) and confirm by pressing **SET**. The device will proceed to the days of the week settings.

Weekday settings. Using \bigoplus or \bigoplus or enter the current day of the week (Mo - Monday, Tu - Tuesday, We - Wednesday, Th - Thursday, Fr - Friday, Sa - Saturday, Su - Sunday). Confirm by pressing **SET**. The device will go to the time settings.

Time settings. Use \bigoplus or \bigoplus or to set the time and confirm **SET**. The device will proceed to the minutes settings. Repeat the procedure setting the minutes. The unit will go to the temperature unit settings.

Set the temperature unit. Use \bigoplus or \bigoplus or to set the temperature unit (Celsius or Fahrenheit) and confirm by pressing **SET**. The unit will proceed to the display backlight settings.

Backlight settings. Use \bigoplus or \bigoplus or to set the display backlight mode (L-0 - no backlight, L-1 - continuous backlight, L-A - automatic backlight). No further configuration is required. To complete the configuration press and hold *SET*. After this operation, the display will show the default screen with the settings entered.

■ ACTIVATION OF THE DEVICE (MANUAL MODE)

Press and hold O, until you hear a short beep. Release the button. The heater will start the firing procedure and the display will show "**PILOT**". After firing up, the display will show "**ON**" and the device will automa- tically set the maximum flame height.

If the device does not start, the procedure will be repeated automatically two more times. If the heater does not start, the display will show **"E00"**. Disconnect the gas supply to the appliance and contact service.

MINIMUM AND MAXIMUM FLAME HEIGHT/STANDBY (MANUAL MODE)

With the heater in operation.

Increasing flame height. Press

Reducing flame height. Press

The heater, controlled using TESC automation, has seven stages of main burner flame height adjustment.

■ EXTINGUISHING THE DEVICE (MANUAL MODE)

With the heater running, press \bigcirc . When the extinguishing procedure is complete, the display will show "**OFF**". If the device is e x t i n g u i s h e d , wait 5 minutes before attempting to fire it up again.

■ TIMER (MANUAL MODE, THERMOSTAT)

This mode allows you to turn off the burning heater after a certain period of time. The function is available both in manual mode and in thermostat mode.

Switching on. Press MODE several times until the display shows the flashing symbols "MAN" and "Zzz", or the thermometer symbol and "Zzz", then confirm by pressing SET.

Switching off. Press **MODE** several times until the display shows **"MAN"** flashing, then confirm by pressing **SET**. The device will start operating in manual mode.

Countdown time settings. Press and hold **SET** until you hear a beep. Release the button. The display will show a flashing thermometer symbol. Press the **MODE** button. A flashing "Zzz" symbol will appear on the display at the top of the display. Press SET to go to the countdown time setting. The default countdown time is set to 1 hour. At this momen- tion, using \bigcirc or \bigcirc , it is possible to change the time after which the burning heater will turn off. The maximum countdown time is 4 hours. After setting the time, confirm by pressing SET, or wait a few seconds for the device to do it automatically.

In timer mode in conjunction with manual mode, pressing SET displays the time remaining until the countdown ends. If the heater is operating in timer mode in conjunction with thermostat mode, pressing SET several times allows both the remaining time remaining and the set temperature to be displayed alternately.

THERMOSTAT MODE

The ambient temperature is continuously compared with the temperature set by the user. The temperature sensor is located in the remote control. The flame height is automatically adjusted to reach the set temperature. When the thermostat mode is on, the heater adjusts the flame height according to the set temperature. If the set temperature is reached, the flame height of the main burner will be reduced every minute until it is completely extinguished (only the control burner burns). The control burner will be turned off after 30 minutes if the ambient temperature does not drop below the temperature set in the thermostat mode.

Switching on. Press *MODE* several times until the flashing thermometer symbol appears on the display, then confirm by pressing *SET*.

Shutdown. Press *MODE* several times until the display shows a flashing "MAN" symbol, then confirm by pressing *SET*. The unit will begin to operate in manual mode.

Temperature settings. Press and hold **SET** until you hear a beep. Release the button. The display will show a flashing thermometer symbol. Press **SET** to set the temperature values. Individual temperature settings can be adjusted using \bigoplus or \bigoplus . New settings, confirm with **SET**.

In thermostat mode, the set temperature can be set for three variations:

- Daytime variant the display shows the sun symbol. The default temperature for this variant is 24 °C.
- Night variant the display shows a crescent symbol. The default temperature for this variant is 18 °C.
- Minimum temperature variant the display shows a snowball symbol. The default temperature for this v a r i a n t is 5 °C.

In thermostat mode, the display shows the symbol corresponding to the temperature variant, and pressing **SET** causes the display of the set temperature. In the case of the CALMA series , only the daytime variant remains active.

ENVIRONMENTAL PROTECTION AND RECYCLING

Hitze brand gas heaters are equipped with automatic control with an electric circuit, therefore they are subject to Directive 2012/19/EU of the European Parliament and the Council of July 4, 2012. This is confirmed by the marking of Annex IX of the aforementioned Directive on the label of the device. The packaging in which the heater was delivered should be disposed of in a manner appropriate for it. After the period of operation, the user should hand over the used heater together with its accessories to an appropriate institution dealing with the disposal of such equipment. Electronic accessories in the form of the controller, ste- ring module, remote control and all other electronic components should be removed from the device and subjected to selective collection of waste electrical and electronic equipment. From the heater, the glazing made of heat-resistant ceramics should be removed. The steel body of the device should be disassembled and cleaned of silicone gaskets. If the device is equipped with an accumulation lining, it should also be dismantled. All materials received, should be segregated and recycled.

Used batteries contained in the receiver and remote control, should be placed in special containers for this type of waste. Containers are located in places specified by the relevant city or municipal services.

ERROR CODES AND THEIR RESET

All gas heaters of the CALMA series are equipped with a remote control. In the event of a malfunction of the device, the remote control display shows a message with an error number. To reset the error, press and hold for a moment the button responsible for starting the heater. If the error appears on the display, read the description of the error, take the suggested actions and try to restart the heater. If the error reappears, cut off the gas supply and contact service. If an error other than the one shown in the tables below appears, cut off the gas supply and contact service.

ERROR CODE	MARK	CAUSE
E00	Failure to fire up after completing 3 cycles.	Lack of gas. Aerated gas system. No spark. Thermocouple does not detect f I a m e . Make sure that the heater has a gas supply and that a spark appears on the control burner during the firing procedure. If the above does not occur cut off the gas supply and contact service.
E01	The heater shuts down.	Weak or inadequate flame on control burner. Clean the control burner. Check that decorative elements do not interfere with the control burner.
E02	The heater shuts down.	The temperature of the control module has reached 72 °C. Poorly executed heater installation
E06, E07	The device does not start.	Completely discharged batteries in the control module. In this case, random error codes may be displayed. Replace the batteries in the control module.

SERVICE AND MAINTENANCE

ATTENTION

Servicing operations that require opening the door, should be performed on a cooled fireplace and with the gas supply cut off. Servicing of the appliance can only be performed by a qualified serviceman with the appropriate authorization. After the service technician completes the inspection protocol. The scope of work performed, should be noted in the Notes field.

The appliance together with the chimney system should be periodically inspected at least once a year. The chimney system should be periodically inspected at least twice a year. In order to have access to the automation elements installed outside the body of the heater, it is necessary to remove the inlet grille installed in the body of the device. All consumables and cleaning agents are available from the manufacturer. During the inspection, the service technician is required to:

- Replacing batteries in the remote control and control module.
- Inspect the windshield for damage. Glass that has deep scratches and/or cracks requires immediate replacement.
- Check the condition of the windshield seal. Damaged seals, replace with new ones.
- Check the condition of the ceramic components of the burner. Replace cracked ceramic billets with new ones.
- Remove the ceramic burner elements and other decorative materials to clean the combustion chamber. Wipe the combustion chamber with a damp cloth. Do not clean the fireplace with caustic agents. After the operations performed, the removed components should be reinstalled.
- Clean the control burner module from any soot deposits.
- Inspect the air and flue system. If the chimney system needs to be unblocked/cleaned, go through the required steps.
- Check for leaks in the heater's gas system and gas connection.
- Inspect the electrical system of the automatic gas control system. Damaged electrical wiring and/or having signs of corrosion, should be replaced immediately.
- Cleaning the windshield To clean the windshield, do not use abrasive materials or chemicals not intended for such materials. Most of the dirt can be removed with a dry cloth. More difficult stains should be removed using agents designed for cleaning heat-resistant ceramics.

DOOR REMOVAL

CALMA series gas heaters are equipped with a hinged door, opening "upwards". In order to access the combustion chamber, the door must be lifted as shown in Figure 8. The pressure of the door on the body is realized by means of dedicated neo-smoke magnets. The plane between the door and the body of the device is sealed using a high-temperature foam gasket.

ATTENTION

When lowering the door, control its movement at all times. Lowering the door too abruptly can cause damage to the door. Pay special attention to whether the tightness of the heater chamber is maintained after closing the door.



Fig. 20 Opening the door on CALMA series heaters

CALMA 43x40 - door removal

The door of the CALMA 43x40 is equipped with an additional closing and locking system. To open the door of the heater, first you need to slide out the lower and upper cover of the fireplace. In the lower part of the door there is a handle, which should be pulled towards you, and then lift the door to its extreme upper position. In the next step, lower the door slightly, which will lock the door.

To close the heater door, lift it to its extreme upper position and release the lock located on both sides of the door (Fig. 22). Before closing the door, pull the handle towards you, which will allow the door to be fully closed and locked.



Fig. 21. CALMA 43x40 - release of the lower locking mechanism



Fig. 22. CALMA 43x40 - how to release the locking mechanism



Fig. 23. CALMA 43x40 - door closure

DISMANTLING THE MAIN BURNER

CALMA series gas heaters have a multi-module burner, where its first part (lower), mounted below the combustion chamber, is a collector with multipoint gas distribution, in which nozzles responsible for supplying the correct amount of fuel to the main burner are installed. The second part of the burner (top) is also the base of the combustion chamber of the device and rests on brackets bolted to the body of the heater. Profiles with outlet nozzles are mounted to the base, on which dedicated ceramic elements imitating wooden logs are applied.

CALMA series devices are equipped with anti-explosion protection, which makes them fully safe, even in case of unforeseen random events. In the event of an explosion inside the heater, its door will automatically swing open which will reduce the pressure in its combustion chamber, preventing damage to the structure of the device.



Fig. 24 Removal of the main burner

■ CHECK FOR LEAKS IN THE GAS INSTALLATION OF THE HEATER

Leakage control should be carried out during the first commissioning of the heater at the target site. The inspection should be carried out on all gas connections included in the internal installation of the appliance, as well as the completed connection to the gas system of the building. The inspection should be carried out using a hand-held gas detector with a valid inspection and/or calibration certificate. The **inspection can only be carried out by a person with the necessary qualifications confirmed by the appropriate authorizations.**



ATTENTION

The condition for obtaining a warranty is the possession of a completed Warranty Card, proof of purchase, a record of installation of the device and a record of periodic inspections of the heater. The device automatically loses the warranty if it has been installed or operated contrary to the guidelines contained in this manual.

To make a claim, the Buyer should send a request to reklamacje@hitze.pl. All information regarding the warranty terms and conditions and how to report a claim is available in the Warranty Card provided with the device.

REPORT ON THE INSTALLATION OF THE GAS HEATER

	GAS HEATER INST	ALLATION REPORT	
Name of the heater		Type of gas in the installation	
Heater code		Gas pressure in the system	
Serial number		Installation date	
Authorization number		Legible signature	
Assembly address			

INSPECTION REPORT OF THE GAS HEATER

	REPORT O	N THE INSPECTION OF THE GAS HEATER WITH THE CHIMNEY	SYSTEM
Date	Authorization number	Comments	Legible signature

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