



2531-19

PIN CODE: 2531CT-0031

EN

INFRARED GAS HEATER

Hanna green

Hanna silver

Hanna red



This product is not suitable for primary heating purposes.

INSTALLATION AND USE INSTRUCTIONS

Read carefully the instructions before switch on and use the heater.

Installation must be done according to the standards of the country of destination.

Take care of safety instruction; the missing care on safety can be a source of accident and damages.

Take care of this manual for future reference.

PLEASE USE THE HEATER ONLY IN A GOOD AIR FLOW ROOM.

DO NOT USE ON ROULOTTE, CAMPERS AND BOAT.

AFTER THE USE, CLOSE THE SWITCH OF THE LPG CYLINDER VALVE.

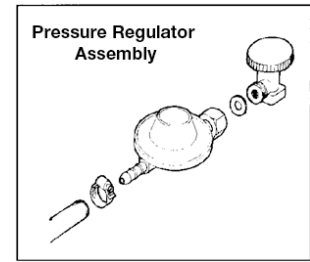
THIS APPLIANCE REQUIRES A HOSE AND REGULATOR, CHECK WITH YOUR GAS SUPPLIER.

TECHNICAL FEATURES

Gas Category	I 3+ (28-30 / 37)
Gas type	G30 / G31
Pressure	28-30 / 37 mbar
Orifice marked	0.58 mm
Destination Country	IT
Max. gas input	4.1 kW (298g/h)

INSTALLATION

- Installation must be made accordingly to the standards of the country of destination.
- The stove gives off its combustion residues in the environment: the latter to ensure adequate ventilation.
- It must be installed in rooms where gas appliances can flow at least as much air than is required by the regular burning of the gas consumed by various appliances. The replacement must be a minimum of 105 cm² divided equally between the top and bottom.
- For proper operation, the infrared heater must be powered by gas cylinders containing liquid mixture of propane-butane in the relations established by the standards of the destination countries. It's always convenient to consult authorized dealers. The gas supply pressure is 30 mbar for Butane, 37 mbar for Propane.
- The minimum ventilation surface must be greater than 105 cm².
- The minimum size of the local use of the device must be 84 m³ for rooms where you stay and 42 m³ for other rooms. - Do not use the device in high-rise buildings, in rooms under the ground level, bathrooms or bedrooms, caravans and campers. The guard on this appliance is to prevent risk of fire or injury from burns and no part of it should be permanently removed. Anyway, **IT DOESN'T GIVE FULL PROTECTION FOR YOUNG CHILDREN OR THE INFIRM.**
- Please read the instructions before use.



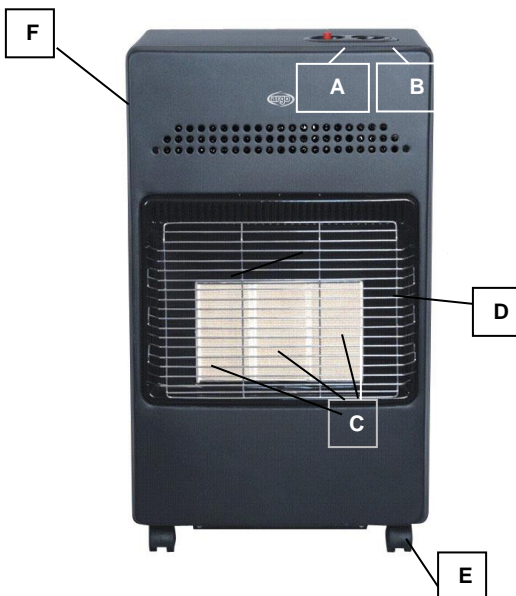
IMPORTANT

Operations maintenance, adjustment, etc.. must always be performed by qualified people.

INSTALLATION AND CONNECTION TO CYLINDER

- Detach from the back of the stove the pressure regulator already connected to the gas hose and to the heater. Install the wheels firmly if not mounted.
- **If not provided, gas pressure regulator must be compliant with standard EN16129 (flow rate: max 1 kg/h) and gas hose with applicable national standard. For the details of the gas pressure, please refer to the technical features.**
- Screw the bolt connection of the regulator to the cylinder of up to 15 kg. (Recommended size: Diameter 320 mm x Height 620 mm for 15 kg cylinder), taking care not to forget the seal between regulator and attack.
- Insert the cylinder into the slot and snap back
- Cylinders should be introduced or removed from the compartment of the stove keeping them in vertical or nearly vertical. This is to avoid the transfer of gas (even at liquid) from the cylinder to the stove.
- **Avoid absolutely to flip the cylinder to fully exploit the content.** This operation would cause the leakage of liquid waste from the bottom of the cylinder, which would damage irremediably the stove and could be a source of danger.
- **The replacement of the cylinder should be done away from any flame or heat source.**

PARTS DESCRIPTION



A. Button piezo-ignition

B. Power selection knob

- ★ = IGNITION
- 1 = 1,5 kW (minimum)
- 2 = 2,8 kW (average)
- 3 = 4,1 kW (maximum)

C. Ceramic burner divided into 3 panels

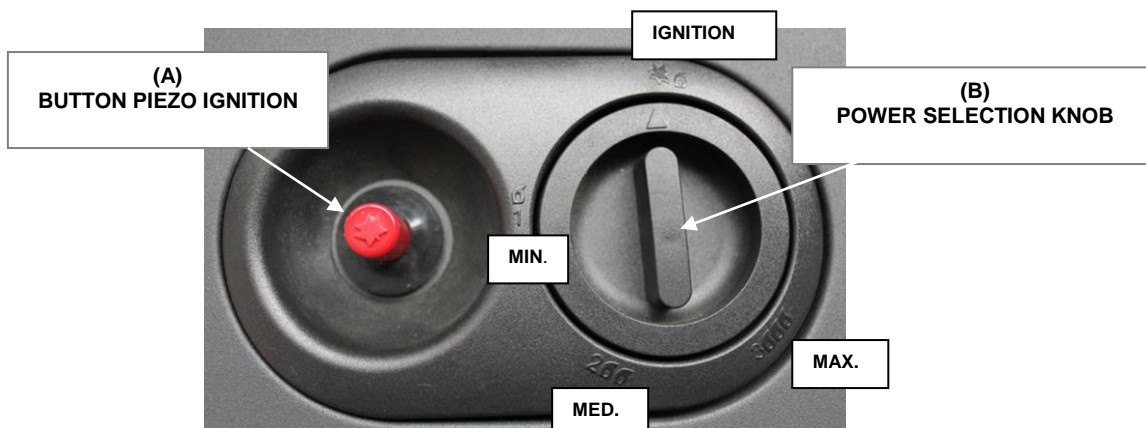
- 1 Panel on = (minimum heat)
- 2 Panels on = (medium heat)
- 3 Panels on = (maximum heat)

D. Protection Grid

E. Wheels (2 with stoppers)

F. Carrying handler

SWITCH ON AND USE



1. Open the tank valve.
2. **Push and turn the control knob to position MIN.** and hold for 10-15 seconds. The gas flows into the burner.
3. At the same time repeatedly press the power button piezo-electric (A) (it clicks), until the pilot lights on the bottom of the burner.
4. Continue to hold the control knob for 10-15 seconds until the flame is established stably. If the pilot flame extinguished, repeat step 2-3-4 until the pilot flame stays on permanently, heating power can be regulated, changing position of the power control knob by turning lightly on the desired heat level.
5. From the minimum position (MIN), with only 1 of the 3 panels on the burner lighted, heating power can be regulated changing position of the power control knob by pressing lightly on the desired heat level: medium (Med - 2 panels on) and maximum (MAX - 3 panels on).
6. By turning the knob back on MED., 2 panels will remain lit, to MIN. 1 single panel will remain lit. Moving the knob to OFF, 1 panel and the pilot light will remain lit.
7. To completely turn off the appliance, close the cylinder valve, wait until the pilot turns off, then turn the control knob to the lighting position. Disconnect the regulator from the cylinder.

WARNING!

ONLY CLOSING THE CYLINDER VALVE THE HEATER IS COMPLETELY OFF AND YOU HAVE THE MAXIMUM SAFETY.

NOTE

TO TURN ON THE HEATER, MOVE THE CONTROL KNOB FROM IGNITION TO POSITION MIN. WITH A STRONG PRESSURE: TO MOVE THE CONTROL KNOB TO MEDIUM AND MAXIMUM POSITION A LIGHT PRESSURE IS ENOUGH.

WARNING!

BEFORE USING THE HEATER FOR THE FIRST TIME, PLEASE PRESS ALL CONTROL BUTTONS WITH STRONG PRESSURE FOR MORE TIME, TO FAVOURITE THE GAS FLOW TO THE PILOT. THIS ACTION MUST BE DONE EVERY TIME THAT THE DEVICE IS NOT USED FOR A LONG PERIOD. BEFORE LIGHTING ON AGAIN THE HEATER, WAIT AT LEAST 10 MINUTES FROM THE SWITCHING OFF.

IMPORTANT NOTICES for use and storage

- **DURING THE OPERATION ALL PARTS OF THE APPLIANCE CAN REACH HIGH TEMPERATURES.**
- **CHILDREN SHOULD NOT STAY CLOSE TO THE HEATER.**
- **LET THE HEATER COOLING AT THE END OF WORKING BEFORE MAKING ANY OPERATION.**
- To avoid all risks of fire, position the heater so that the radiant surface (in front of the heater) is not directed toward the walls (especially if they are covered with tapestry or other), the furniture in general or flammable objects. Because of the high heating capacity of the appliance, always place it so that during operation there will always be **at least 120 cm away** from flammable objects. In case of bad smell or gas leakages, immediately close the gas valve located on the cylinder, open doors and windows to ventilate the room as quickly as possible and do not turn on electrical devices that may cause fire or explosion.
- Don't move the appliance when operating, shocks and bumps may activate the safety device.
- Please use only in a well ventilated area. Do not use in leisure vehicles such as caravans and auto caravans.
- Don't cover in any case the heater during operation, as this could cause a substantial increase of the temperature.
- Never use the heater without the grid.
- The front grille protects against contact with incandescent, but it becomes very hot during operation too.
- If the heater is not used, cylinder valve must be well closed at all times.
- At the end of the season the heater, after taking out the cylinder, must be protected with a sheet of polyethylene, to avoid dust or other substances.
- The container should be charged in accordance with instructions provided.
- If the heater is not to be used for a period of time, disconnect regulator from the cylinder and replace any valve

protection plug and cover.

- The hose must not be bent. Before starting using the heater, each season, check the tightness of the hose and gas connections and the date of expiry of the hose: in case of replacement, use only hose certified according to applicable EN-standard, length 50 cm.
- **If not provided, gas pressure regulator must be compliant with standard EN16129 (flowrate: max 1kg/h) and gas hose with applicable EN-standard.**

SAFETY DEVICES

The heater is equipped with triple safety device:

1. ODS : turns off the unit when the % of CO₂ in the atmosphere exceeds the permitted limits;
2. PPF : automatically stops the gas supply if the pilot light off;
3. Anti-tilt: automatically blocks the gas supply in case of shock with reversal risk.

The heater turns off if there is not enough ventilation in the room: in this case, ventilate well the room and wait 10 minutes before trying to turn it on again.

MAINTENANCE

To grant economical and smooth operation over time, we have prepared the following table for simple interventions, before contacting after sales service.

<i>Malfunction</i>	<i>Possible cause</i>	<i>Suggested Actions</i>
a) The heater provides just a little heat.	<ul style="list-style-type: none"> - Check that the hose is not kinked. - Make sure the pressure regulator delivers pressure of 30 mbar for G30 (Butane) and 37 mbar for G31 (Propane). - Check if the gas in cylinder is finishing. - None of these causes. 	<ul style="list-style-type: none"> - Replace the pressure regulator 30 mbar for G30 (Butane) and 37 mbar for G31 (Propane). - Change the cylinder. - Contact After Sales Service.
b) The heater provides too much heat.	<ul style="list-style-type: none"> - Check if the pressure regulator delivers a pressure higher than 30 mbar for G30 (Butane) and 37 mbar for G31 (Propane). 	<ul style="list-style-type: none"> - Replace the pressure regulator 30 mbar for G30 (Butane) and 37 mbar for G31 (Propane).
c) The heater emits odours.	<ul style="list-style-type: none"> - Gas leakages on various connections or hose, regulator without gasket. - The gas in cylinder is finishing. - The cylinder contains too many acids. - None of these causes. - In the room there is more than 1,2% by volume of carbon dioxide. 	<ul style="list-style-type: none"> - Sprinkle with a brush and soapy water all the connecting joints for leaks. - Replace the cylinder. - Replace the cylinder. - Contact After Sales Service. - Ventilate the room for a few minutes, then turn on again.
d) The pilot goes out during operation and turn off the heater.	<ul style="list-style-type: none"> - You are high on the mountains. - The pressure regulator provides pressure above 30 mbar for G30 (Butane) and 37 mbar for G31 (Propane). - The nozzle of the pilot is dirty. 	<ul style="list-style-type: none"> - Contact After Sales Service. - Replace the regulator. - Contact After Sales Service.
e) The pilot doesn't turn on by the piezo-electric.	<ul style="list-style-type: none"> - The ignition electrode is not positioned correctly. - Cable disconnected from the button or from the candle. - None of these causes. 	<ul style="list-style-type: none"> - Bring the electrode above the pilot mouth at a distance from the bulb of the thermocouple of 3 / 4 mm, so that the spark ignites the gas of the pilot. - Reconnect the cable or turn on the pilot with a match and contact After Sales Service. - Contact After Sales Service.

The heater requires minimal maintenance. Occasionally clean it with a soft, dry cloth. Never use abrasive powders or solvents. Wait until the unit is cold. It is recommended that the heater be serviced every year by a competent person in accordance with the Gas Safety (installation and use) Regulations.

INFORMATION REQUIREMENTS FOR GASEOUS/ LIQUID FUEL LOCAL SPACE HEATERS

Table 1- Annex II - COMMISSION REGULATION (EU) 2015/1188 of 28 April 2015 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for local space heaters

Model identifier(s): HANNA GREEN / HANNA SILVER / HANNA RED								
Indirect heating functionality: [no]								
Direct heat output: 4.1 (kW)								
Indirect heat output: N/A (kW)								
Fuel						Space heating emissions (*)		
						NOx = nitrogen oxides		
Select fuel type			[gaseous]			[specify]		
						33 [mg/ kWh _{input}] (GCV)		
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Heat output				Useful efficiency (NCV)				
Nominal heat output	P _{nom}	4.1	kW		Useful efficiency at nominal heat output	η _{th, nom}	100	%
Minimum heat output (indicative)	P _{min}	N/A	kW		Useful efficiency at minimum heat output (indicative)	η _{th, min}	N/A	%
Auxiliary electricity consumption				Type of heat output/room temperature control (select one)				
At nominal heat output	e _{lmax}	N/A	kW		Single stage heat output, no room temperature control	[no]		
At minimum heat output	e _{lmin}	N/A	kW		two or more manual stages, no room temperature control	[yes]		
In standby mode	e _{lSB}	N/A	kW		with mechanic thermostat room temperature control	[no]		
				with electronic room temperature control				
				with electronic room temperature control plus day timer				
				with electronic room temperature control plus week timer				
				Other control options (multiple selections possible)				
				room temperature control, with presence detection				
				Room temperature control, with open window detection				
				with distance control option				
				with adaptive start control				
				with working time limitation				
				with black bulb sensor				
Permanent pilot flame power requirement								
Pilot flame power requirement (if applicable)	P _{pilot}	0.20	kW					
Contact details	ARGOCLIMA SPA - Via A. Varo,35 - Alfianello (BS) - ITALY - www.argoclima.com							

PRODUCT FICHE

ANNEX IV - COMMISSION DELEGATED REGULATION (EU) 2015/1186 of 24 April 2015 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to the energy labelling of local space heaters

Brand: ARGO

Model: HANNA GREEN - HANNA SILVER – HANNA RED

This product is not suitable for primary heating purposes

The energy efficiency class: Class A

The direct heat output: 4.1kW

The energy efficiency index: EEL=89%,

Please refer to the instruction manual for the assembly, installation, maintenance, disassembly, recycling and/ or disposal at end-of-life.



The gas heaters, models:

HANNA GREEN / HANNA SILVER / HANNA RED

are in conformity with following EC directive and Regulations

- Gas Appliances Regulation (EU) 2016/426 (GAR)
- Commission Delegated Regulation (EU) 2015//1186 and 2015/1188

and that the following harmonised standards have been applied:

- EN449:2002 + A1:2007

Regularly check the state of the rubber pipe and replace it in any case every 5 years.
The check on the state of repair must be carried out every 2 or 3 years.

IMPORTED AND DISTRIBUTED BY:

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