

USER INSTRUCTIONS

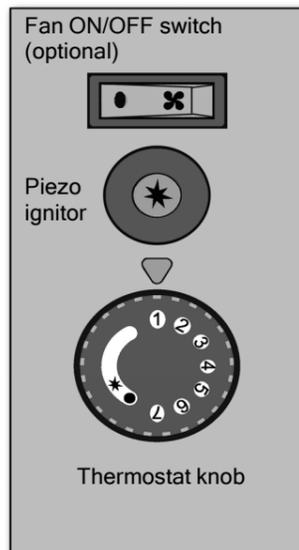
Control panel: The sketch on the right side shows the control panel of the heater. You can reach the control panel by unlocking the button on the plastic cover on the front panel. During operation, this cover is recommended to be kept locked.

The markings on the thermostat knob refer to the following information:

- Off position
- ★ Ignition and pilot flame
- 1...3 Minimum setting of gas valve
- 4...6 intermediate warming
- 7 Maximum warming

The working range of thermostat is from 13 to 38°C room temperature. The adjustment of thermostat knob refers approximately to the following room temperatures;

Knob setting	1...2	3	4	5	6	7
Room temp. (°C)	13...17	21	25	30	34	38



Turning the appliance ON: Starting from OFF (●) position, turn the knob to the pilot position (★). Push the knob and ignite the pilot flame keeping the knob pressed for several seconds. Release the knob after kept pressed for 10 seconds, check that the pilot flame remains alight. If it goes out repeat the ignition operation.

Room temperature setting: Turn "thermostat knob" to set the main burner gas flow

Stand-by: To keep the main burner of the stove closed and the pilot flame alight, turn the knob from the selected temperature position to the pilot position (★).

Shut off the appliance: Turn the knob to OFF position. For seasonal shutdowns, it is recommended to cut the gas supply to the appliance.

Switching fan on/off (OPTIONAL): If your heater has an integrated convection fan, you can either switch it on or off, according to your desire. Convection fan speeds the warming time up when in use, increasing the efficiency of the heater at around 1 - 2%.

When the thermocouple (thermoelectric safety device) has cooled sufficiently, pilot lighting procedure may be repeated. After the appliance has been completely shut-off, re-ignition is possible after about 1 minute (to allow the thermocouple to cool). If thermoelectric safety device actuating the flame is extinguished either intentionally or unintentionally, no attempt should be made to relight the gas until at least 3 minutes have elapsed for safety reasons. If the appliance goes off by any cause, or stopped by turning main gate valve or governor off, first set the thermostat knob to OFF position, and wait for 5 minutes prior to re-start.

Maintenance and cleaning: Your heater has no user-servicable parts. At the beginning of each heating season we would recommend to call for a service agent and request the following controls:

1. Check of adequate gas supply from the net, gas and combustion circuit soundness, flue outlet terminal
2. Replacement of any material damaged

If needed you can clean the outer jacket of the convector with a piece of smooth cloth. Never use sharp materials and cleaning solvents to clean the appliance.

Conversion to different gases: Your appliance is adjusted at the factory for the local distributed natural gas at your location. If needed, the exchange from natural gas to LPG can only be carried out by registered service agent or authorised people from your local dealer. Never interfere the setting of the appliance on your own.

Manufacturer's declaration of conformity

We, "Adarad Dokum Urunleri Sanayi ve Ticaret AS" located at "Organize Sanayi Bolgesi 16400 Inegol, Bursa, Turkey (TR)", declare under our sole responsibility that the "Gas-fired independent balanced flue space heater" models, Adarad AC2 / AC3 / AC4 / AC5 / AC2 F / AC3 F / AC4 F / AC5 F

to which this declaration relates is in conformity with the following standard(s) and normative document(s):

Council Directive 90/396/EEC on the approximation of the laws of the Member States relating to appliances burning ① gaseous fuels

Harmonized normative EN 613:2000 on Independent gas-fired convection heaters ②

We declare that we have taken all necessary measures to ensure that the manufacturing process including final product inspection and testing, results in homogeneity of production and conformity of the appliance with the type as described in the EC-type examination certificate and with the requirements of above Directive with the type as described in the EC-type examination certificate and with the requirements of above Directive

Adarad Dokum Urunleri Sanayi ve Ticaret AS

Rev. November.2010



Gas Fired Balanced Flue Heater

Models

AC2 / AC2 F

AC3 / AC3 F

AC4 / AC4 F

AC5 / AC5 F

Installation and User Manual

CE

Distributor: CALOR SRL
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www.calorserv.ro - www.calor.ro

Thank you for purchasing Adarad convector. Please read this manual carefully before installation and operation of your appliance, and keep it during the whole operation life. Do not touch or interfere any part of the appliance other than those allowed. The installation and service of this heater requires authorised and skilled staff. For the installation of the heater and proper room selection, this manual and mandatory regulations must be considered.

Adarad AC convector is a gas fired balanced flue room heater for independent use. The heater must always be used with supplied telescopic flue kit in accordance with the instructions given in this manual. As it does not use the air of your living room for the combustion, a safe operation is ensured. Thanks to its cast iron design your heater will perform a very long operation life with a silent combustion and high efficiency. Some models are equipped with a convection fan which helps warm faster. Convection fan is either switched on or off using the fan button on the control panel.

Adarad AC convector has an integrated multifunctional gas valve which modulates the gas flow according to desired room temperature between 13 and 38 oC. The desired room temperature is set by a thermostat knob on the control panel. When desired room temperature is reached the main burner flame goes off, but pilot flame stands alight. No external power supply is needed to control of pilot flame, main flame, and thermoelectric safety features.

Model		AC2 / AC2 F	AC3 / AC3 F	AC4 / AC4 F	AC5 / AC5 F
Type		C ₁			
Category		II 2H3+			
Reference gas		G20	G30/G31	G20	G30/G31
Nominal inlet pressure	mbar	20	28-30/37	20	28-30/37
Burner pressure at maximum load	mbar	11	-	12	-
Heat input at maximum load	kW	2.2	3.0	4.0	4.9
Burner pressure at minimum load	mbar	3	-	5	-
Heat input at minimum load	kW	1.2	2.1	2.8	3.5
Net efficiency at max load	%	86.8	87	86.2	86.9
NOx class		1			
Nozzle diameter (main burner)	mm	1.4	0.75	1.6	1
Nozzle diameter (pilot burner)	mm	0.41	0.3	0.41	0.3
Gas consumption at max load	m ³ /h	0.241	0.067	0.322	0.093
Flue gas temperature at max load	°C	183	162	240	225
Flue outlet/air suction diameter	mm	80 / 150			
Gas inlet size	R	1/2"			
Net Weight	kg	22 (23.5 with fan)		30 (31.5 with fan)	
Height / Depth	mm	630 / 220			
Width	mm	455		605	
Convection fan		Available only for F models			
Electrical properties		230 V / 50 Hz (Only for F models)			
Power consumption	W	18 (Only for F models)			

Delivery term

Your heater is delivered in 2 packages

1. Heater pack which holds the Adarad convector, this manual, and wall fixing elements
2. Balanced flue kit pack

Safety warnings



* Before installation, ensure that the local distribution conditions (identification of the type of gas and pressure) and the adjustment of the appliance are compatible.

* Working surfaces of the convector are shown in the sketch on the right side. As these surfaces become too hot during operation, they must not be touched by hand.

* Do not use the appliance if the flame inspection glass is damaged.

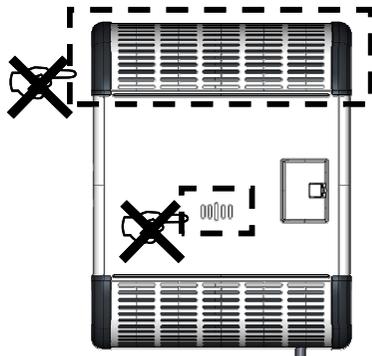
* Do not use the convector without having the flue kit properly installed or if there is leakage on the flue system.

* If balanced flue terminal outside neighbors a window, please keep this window closed any time your heater is in operation.

* If you feel gas leakage, first turn the main gas valve in front of the heater off. Do not switch any light and electrical appliance on or off. Allow more fresh air circulation in the room, call for service agent or local gas company.

* Your heater should not be fired with any source other than installed pilot ignition system.

* The terminal of the flue will reach excessive temperatures and then not be touched. For this reason the flue outlet should not be positioned to the walls in reach of people, or should be protected.



INSTALLATION INSTRUCTIONS

Room arrangement: Refer to the followings to find the proper place for heater installation:

1. The hermetic flue kit of the heater must be installed through a wall next to outside where there is enough air circulation for combustion. The flue terminal can not be routed to balconies, ventilation or lighting clearances, other rooms
2. If the heater is to be installed onto a combustible material (such as wall paper), his material should be insulated from the appliance. Following clearances around heater must be ensured if surroundings are of combustible material:
 - Minimum distance from heater to side walls and upper items : 30 cm.
 - Minimum distance from heater to the floor: 7 cm.
3. Curtains should not be kept closer than the minimum clearances specified above to the heater.
4. Heater should not be positioned just between two side walls preventing warm air circulation around the heater

Installation: Follow the procedure step by step:

1. Drill a hole whose diameter not smaller than 150 mm for balanced flue kit. To fix the heater, drill four holes regarding the references on the sketch on the right. Fit the plastic anchors supplied in the heater pack into these four holes.

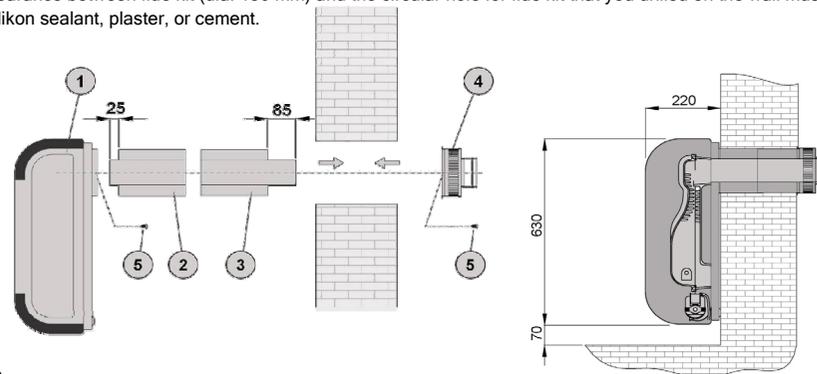
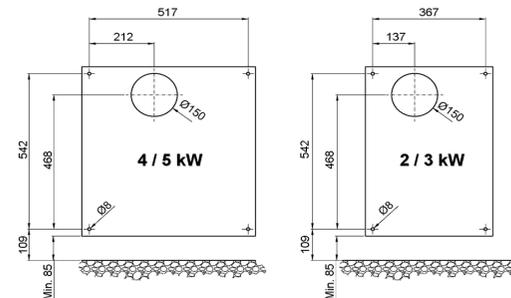
2. Flue kit is of telescopic design, and you can adjust the total length of the flue in respect with thickness of the wall where the heater is installed.

3. Fix pos. 2 of flue kit on corresponding holes on the heater air inlet chamber via pos. 5 self tapping screws supplied in the heater pack. After this attachment, ensure that flue outlet ring (dia. 80 mm) on the heater firmly and squarely fits into the internal pipe of the flue kit to prevent burnt gas leakage to fresh air side. If you do not manage, bad emissions during combustion will rise from the flue terminal to outside.

4. Fit the heater onto wall, fixing it via four pieces of anchor screws supplied in the heater pack, driving the attached flue kit through the hole on the wall.

5. Fix the flue terminal (pos.4) onto the other end of the external pipe of flue kit via three self tapping screws supplied in the flue kit pack, in such a way that, when you finish the installation, the flue terminal (pos.4) should be levelled off with the outside wall surface. You can adjust the total length of flue kit respectively during this stage as well.

6. When you finish the installation you should have the same view of the system as seen in the sketch on the right hand side below. The space between the flue terminal (pos.4) and outside wall surface must be sealed with silicon sealant. The clearance between flue kit (dia. 150 mm) and the circular hole for flue kit that you drilled on the wall must be sealed with silikon sealant, plaster, or cement.



If flue terminal is not arranged properly, the performance of the heater may be affected in strong wind and rain

Electrical installation (only for versions with convection fan): The versions supplied with convection fan should be connected to the mains with supplied original plug. Please be sure that the supply you use for the heater matches with the electrical properties of the appliance. This appliance must be earthed. Check before starting the heater if there is proper earthing on the mains.

Gas supply: The design and installation of gas circuit to the appliance should be carried out by authorized staff licenced by local gas authority and in accordance with mandatory regulations. The local gas supply company should always be contacted at the design stage to ensure an adequate supply is available. Do not let unauthorised people to interfere the existing gas supply setup in case of operation or gas pressure problems. First consult your dealer or its contracted service agent. If no problem on the appliance is found, refer to local gas supply authority.