

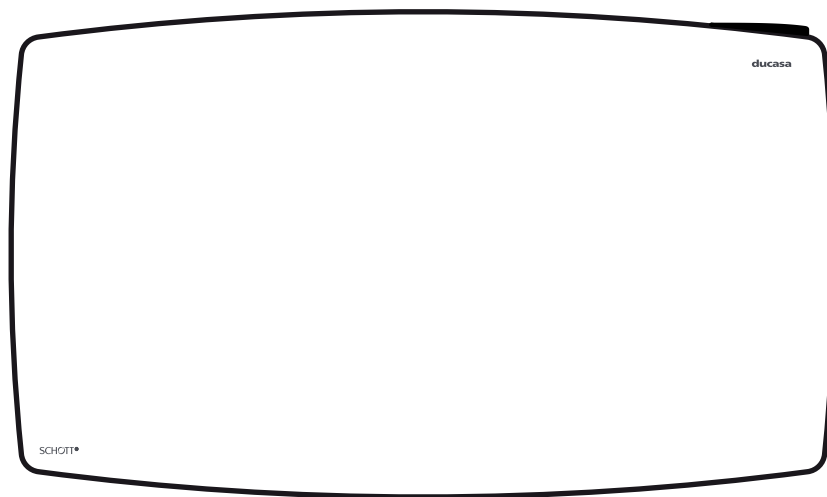
ducasa

The Vitro

Radiant / Convector Combination Heater

Instructions for Operation and Installation

(Read these instructions carefully and retain for further reference.)



Models:

VITRO 750 Black

VITRO 1200 Black

VITRO 1600 Black

VITRO 750 White

VITRO 1200 White

VITRO 1600 White

NOTE:

A qualified electrician must carry out the electrical installation of this radiator. The Electrical installation must comply with current UK regulations. Any claim on the warranty could be invalid if these requirements have not been met.

GENERAL INFORMATION

The Ducasa Vitro glass fronted designer heater provides a combination of radiant and convected heat and will grace any home. With touch sensitive adjustment and LCD display the Vitro can be used as a stand alone heater, as a part of a zoned pilot wire system (optional) or programmed via the Ducasa remote controller (optional).

Luxurious design with glass front panel (Black or White)

Double heating circuit: aluminium heater for convection heating and heating circuit on glass for radiant heat.

Designed and fabricated in accordance with EN60335-1 and EN 60335-2-30

NEC Class II

The radiator requires a 230/240V 50Hz power supply and is a double insulated product so does not require an earth cable.

Wall mounted (by quick fixing system)

On-off main switch

Electronic digital thermostat with LCD screen

Standby, Comfort and Anti-frost settings

2 Hour Turbo Mode

Keypad locking (anti-tamper) facility

Overheat protection

Connectable to a central programming system by pilot wire if required

Programmable by infrared control (Ducasa Remote) - optional

1. IMPORTANT INFORMATION

See Section "Installation Instructions – Location of Heater" for important notes regarding the siting of the appliance.

Due to the surfaces of the heater becoming hot, it must not be positioned directly against or below infammable surfaces.

Do not dry clothes or towels on the heater nor leave fabrics, magazines, spray cans, volatile substances or similar objects within 250mm of the heater.

In case of breakdown or damage turn off the appliance at the main On/Off switch and notify the supplier.

If the electricity cable gets damaged it must only be replaced by a technician appointed by the supplier. This will avoid possible risks and ensure that special tools are available if needed.

This appliance is not intended to be used by persons (incl. children) with limited physical, sensory or mental capabilities, or who lack experience, except for those under supervision or have received instruction in the use of the appliance from a person responsible for their security.

Children must be supervised in order to ensure that they do not play with the appliance.



WARNING: In order to prevent overheating, do not cover this appliance. There has to be free movement of air around all surfaces of the appliance.

This symbol "DO NOT COVER", is placed on the heater as a reminder to the user.

2. TECHNICAL DATA

MODEL	Vitro 750	Vitro 1200	Vitro 1600
Power (w)	750	1200	1600
Voltage	230V /1Ph /50Hz		
Dimensions WxHxD(mm.)	670x500x110	840x500x110	1000x500x110
CLASS	II	II	II

3. INSTALLATION INSTRUCTIONS

ELECTRICAL CONNECTION

A qualified electrician must carry out the electrical installation of this radiator. The electrical installation must comply with the current UK regulations. Any claim on the warranty could be invalid if these requirements have not been met.

The radiator requires a 230/240V 50Hz power supply and is a double insulated product so does not require an earth cable.

CONNECTING WIRES

- L = Live → Brown
- N = Neutral → Blue
- FP = Pilot Wire → Black (if required for external programmer)

IF PILOT WIRE IS NOT REQUIRED INSULATE BLACK CABLE TO ENSURE IT DOES NOT COME INTO CONTACT WITH ANY OTHERS WIRES OR TERMINALS.

The connecting wires must be of the appropriate section, in regards to the length of cable, type of cable and power rating of the apparatus.

The apparatus must be connected into a connecting box.

We recommend that the connecting box is positioned 10cm to the right of the apparatus and at 15cm above the floor.

According to regulations, the apparatus must be connected to the power supply by means of an all-pole circuit breaker with a contact gap of at least 3mm or by a thermal-magnetic circuit breaker.

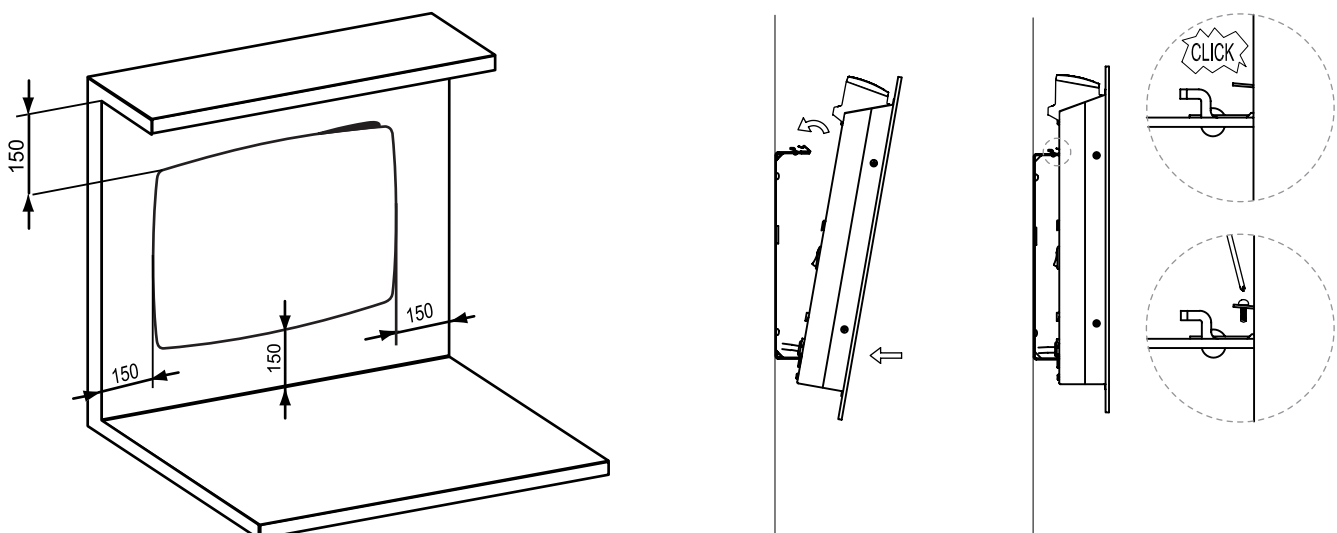
LOCATION

The ideal place to site the Ducasa radiator is as close as possible to coolest wall in the room but it is not recommended to site the radiator on un-insulated exterior walls, in this case, the part of the wall behind the radiator should be insulated. In bathrooms, the radiators must not be sited inside the protected area. The control unit switches must not be reachable, directly or indirectly, by a person in the bath or shower.

The radiator, under no circumstances, should be installed below an electric power point.

Choose the location of the radiator in respect of the minimum distances that are indicated below.

figure 2



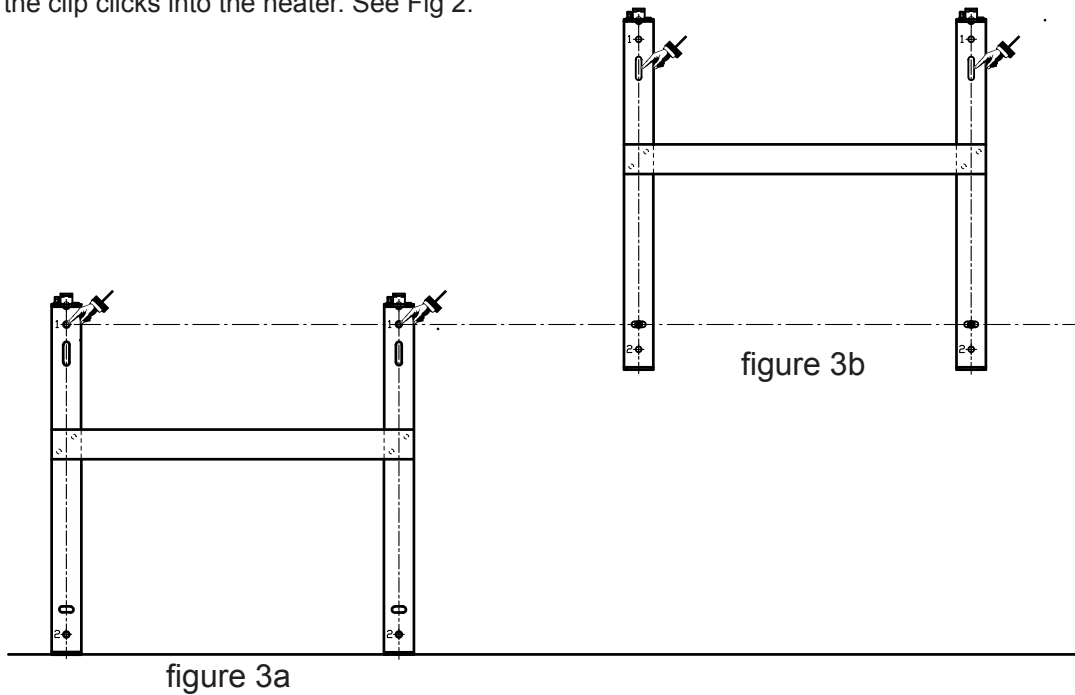
Mounting the Heater

In order to mount the appliance on a wall, it is necessary to first secure the support frame supplied with the appliance to the wall.

Remove the support frame attached to the rear part of the appliance. To do this first press the two upper clips of the support frame in order to release the frame from the upper rear part of the appliance and then withdraw the lower part of the support frame. See Figure 2.

Place the support frame in a horizontal position against the wall and mark the location of the screw holes, as detailed below and shown in the Figures 3a and 3b below.

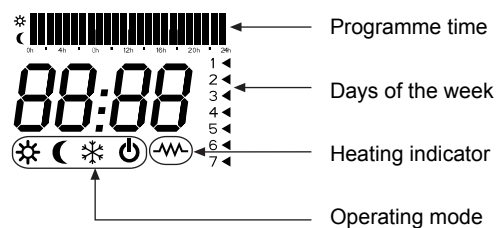
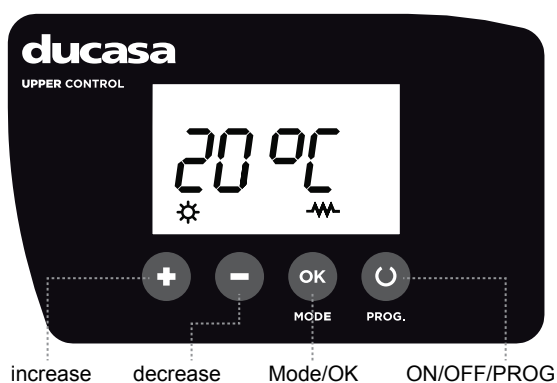
1. Stand the support frame on the floor, lean it against the wall and mark through the top holes, as shown in Figure 3a. Remove the support frame and drill and plug the wall for the fixing screws.
2. Attach the support frame to the wall by means of screws in the lower slotted holes and mark through the upper slotted holes for the top fixing screws. See Figure 3b. Drill and plug for these screws. In this manner the Vitro heater will be mounted on the wall with 205mm between the floor and the bottom of the appliance.
3. When the support frame is fixed to the wall mount the heater by first attaching the lower bracket and then the top ensuring the clip clicks into the heater. See Fig 2.



4. OPERATING INSTRUCTIONS

Switching on

Once the appliance has been mounted on the wall and correctly connected to the electrical supply network, switch on the heater by pressing the ON/OFF button, situated at the rear of the appliance.




SWITCHING ON

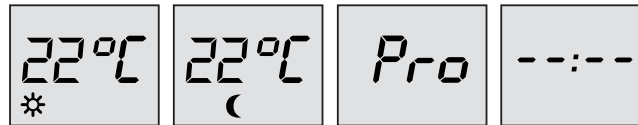
Once the radiator has been mounted on the wall and connected to the main electricity power supply, press the main On-Off switch.

Now press the ON/OFF/PROG switch on the control panel.

When you switch on the radiator the microprocessor reads the memory in the control unit in order to load the last selected mode. When switched on for the first time the memory is empty and the display will flash constantly until you set the Comfort temperature.

During use, the control panel will display the temperature and the current operating mode set by the user.

The symbol  will indicate that the heating element is in operation.



Setting The Comfort and Economy Temperature

To set the comfort or economy temperatures the heater must be in the relevant mode i.e. select economy mode to set economy temperature and comfort mode for comfort temperature.

When the mode is selected, pressing the + and – buttons will increase/decrease the comfort temperature in increments of 1°C. Pressing and holding down either button will rapidly change the setting in increments of 1°C; release the button when the desired temperature is reached. Once the required temperature has been entered and there is no further use of the + and – buttons, the control unit will automatically memorise the selected temperature.


Selection Of Mode

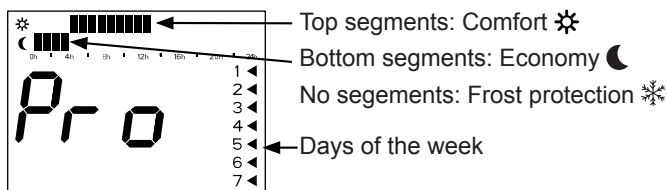
Press the Mode/OK button to select the operating mode.

By each press of the button the thermostat moves from one mode to another mode, Comfort ☀, Economy ☾ and Programming *Pro*. In order to access the frost protection mode press and hold down the button Mode/OK until the corresponding icon is displayed on the screen.

MODE	DESCRIPTION
COMFORT	Select comfort temperature with the button (+), (-) Radiator will heat room to required comfort temperature until manually switched off
ECONOMY	Select economy temperature with the button (+),(-). Radiator will heat room to required economy temperature until manually switched off.
PROGRAMME	Heater will operate at the times and modes set in the programme (see Programming instructions or use optional Ducasa handheld controller) i.e. comfort, economy or frost protection.
FROST PROTECTION	Radiator operates when temperature is less than 7°C
OFF	Radiator switched off










Programming

- Start with the screen displaying the --:-- symbol or clock (hour : minutes) (OFF mode)
- Press and hold down (min. 5secs.) the ON/OFF/PROG  button in order to go to the manual Programming mode *Pro*
- Select the operating mode hour by hour by pressing the + button and then the Mode/OK button to validate.



- Repeat the operation for each hour of each day of the week. At the end of programming day 7, the parameters are automatically saved and the display changes to the hour adjustment mode to make sure that the time is valid. Adjust the time if necessary or validate to return to the OFF mode.
- To move the programming timetables use the - (decrease) button. This enables you to move the time usage without changing the programming. Pressing and holding down this button accelerates the process.
- To return to the Comfort or Economy modes press the Mode/OK button.

Setting The Time

- Make sure that the thermostat is in the shutdown position or press ON/OFF/PROG  in order to go to the shutdown position.
- Press and hold down (min. 5secs.) the ON/OFF/PROG  button in order to go to the manual Programming mode (PRO) *Pro*
- Press the ON/OFF/PROG  button .
- Select the day by using the  and  buttons and press the  button to validate.
- Adjust the time by using the  and  buttons and press the  button to validate






The validation causes the heater to return to the shutdown position.

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Temperature Compensation

Due to the characteristics of the radiator, the control unit has to read the temperature measurement from the lower part of the apparatus, but it is automatically adjusted in relation to the comfort temperature setting. However it is possible to manually adjust this "Thermic Compensation".




Room temperature, recorded by an ambient thermometer minus Comfort setting (temperature) displayed on the control panel screen = compensation value.

- Put the thermostat in the OFF mode by pressing the ON/OFF/PROG  button..
- Press and hold down the  button until the 0.0 is displayed on the screen.
- Press the  and  buttons to enter the adjustment in increments of 0.1°C.
- Press the  button to return to the OFF mode.
- Reset the radiator to the mode required.

Example

- A temperature 22°C is measured in a room with a thermometer while the value of the required Comfort temperature on the thermostat 20°C.
- The setting for the compensation is therefore:
 $22 - 20 = 2^{\circ}\text{C}$.
- In the temperature compensation mode, the user should put in: +2°C.

Keypad Locking (Anti-Tamper)

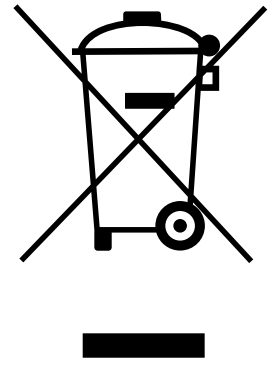
The keypad can be locked to prevent any unauthorised person (children, people in public places, nurseries, offices, hotels etc.) altering the settings and programming in the control unit. To lock the keypad depress and hold the  and  buttons at the same time. The screen will flash; now validate by pressing .

(Waste Electrical & Electronic Equipment) (Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed of with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.



MAINTENANCE AND CARE

Ducasa radiators require very little maintenance.

The surfaces of the radiator must not be cleaned with an abrasive product or those containing granular substances.

We recommend regular cleaning with PH neutral products.

In order to clean the radiator, it is recommended that the electric power is switched off.

GUARANTEE

Your appliance is guaranteed for two years from the date of purchase – during this period we will repair or exchange, at our discretion, any faulty or defective parts providing the appliance has been used in accordance with the operating & installation instructions and has not been misused or mistreated in any way.

Any unauthorised repair or attempted repair will invalidate the guarantee.

This guarantee is additional to your statutory rights.

In the unlikely event of a problem with your appliance please contact your supplier.



UK Distributor of Ducasa Products:

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