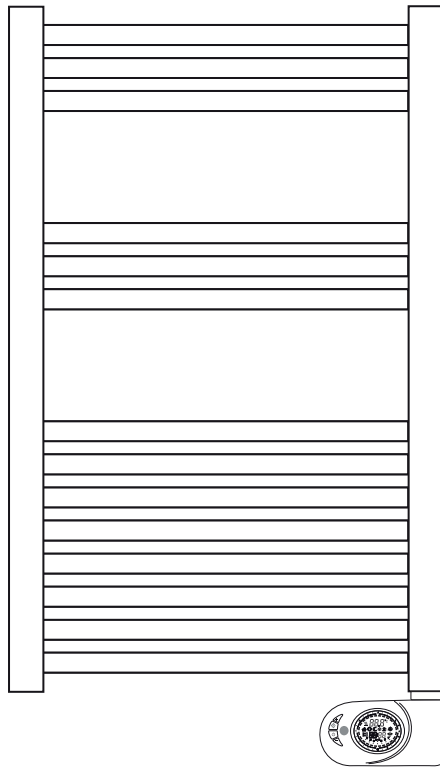# ducasa

Colorado MCR / TCR

Electric Towel Radiator
Instructions for Operating and Installation

(Read these instructions carefully and retain for future reference)

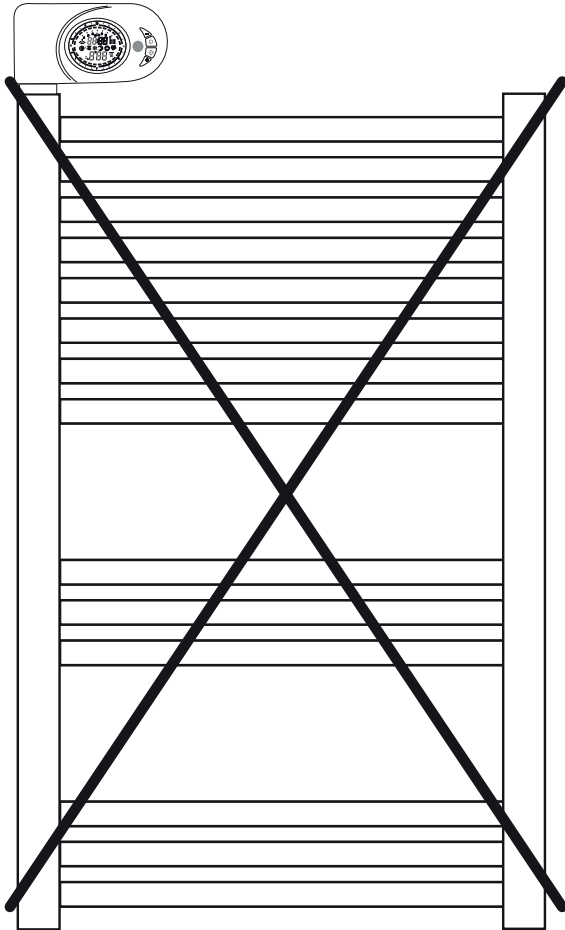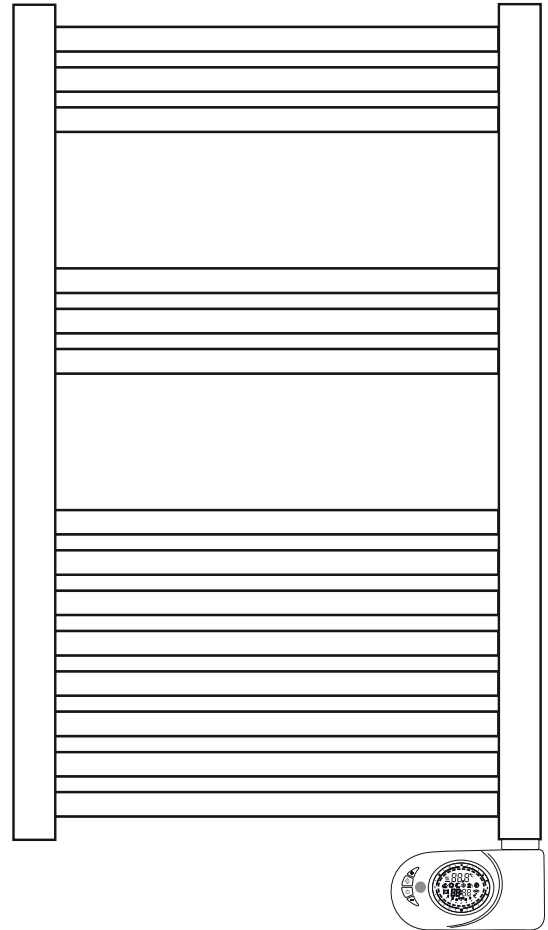| *Models* |
| :---: |
| MCR 40/120   White |
| MCR 40/140   White |
| |
| TCR 140   Chrome |

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.

CONTENTS

INCORRECT

CORRECT

GENERAL INFORMATION

Manufactured in steel, with a white or chrome finish, the Colorado towel radiator is simple to fit and maintenance-free.

Fast to heat up and fully programmable either directly into the towel rail or by using the optional remote control.

- Designed and fabricated in accordance with EN 60335-1, EN 60335-2- 43 and EN 55014 (regulations for domestic appliances)
- Standard colour White (RAL 9016) or Chrome
- NEC Class II and IP44 Rated
- 230V A.C.
- Wall mounted
- On-off main switch
- Regulation by electronic thermostat
- Comfort, Economy, Program, 2-Hour Boost, Open Window Detection and Frost Protection settings
- Overheat protection with safety cut-out
- Large backlit display.
- Programmable by infrared remote control (Ducasa Remote) – optional
- Fitted with connecting power cable 1200mm long (without a plug)

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MODEL	MCR 40/120	MCR 40/140	TCR 140
Wattage (W)	450	750	450
Power	230V/1/50Hz.	230V/1/50Hz.	230V/1/50Hz.
Weight (Kg.)	13	18	18
Dimensions (mm)	500 x 940 x 70	500 x 1400 x 70	500 x 1400 x 70
Class	II	II	II
IP Rating	44	44	44
Cable (mm)	1200	1200	1200

IMPORTANT INFORMATION

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

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

This appliance is only intended for the drying of damp towels or clothes. Do not place flammable objects (e.g. paper, magazines, spray cans, volatile substances or similar objects) near or on the appliance.

WARNING: To avoid risks to very young children this appliance must be installed with the lowest heated rail at least 600mm above the floor.

In case of breakdown or damage turn off the radiator 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 manufacturer. This will avoid possible risks and ensure that special tools are available if needed.

The radiator is filled with a precise amount of oil and in the event of leakage it must only be opened, if needed, by the manufacturer or by the authorised after sales service.

Children of less than 3 years should be kept away unless continuously supervised.

Children aged from 3 years and less than 8 years should only switch on/off the appliance provided that it has been placed or installed in its intended normal operating position and they have been given supervision or instruction concerning use of the applince in a safe way and understand the hazards involved.

Children aged from 3 years and less than 8 years should not plug in, regulate and clean the appliance or perform user maintenance.

CAUTION — Some parts of this product can become very hot and cause burns. Particular attention has to be given where children and vulnerable people are present.

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ELECTRICAL POWER SUPPLY

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.

The radiator requires a 230V 50Hz power supply.

Connecting wires:
      Brown: Live
      Blue (or grey):   Neutral
      Black: Pilot wire (if required for external programmer)

NOTE: The towel rail does not require an earth wire.

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. 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 OF TOWEL RADIATOR

WARNING: To avoid risks to very young children this appliance must be installed with the lowest heated rail at least 600mm above the floor.
It is essential to mount the towel radiator with the control box on the lower right hand side.
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.

MOUNTING THE TOWEL RADIATOR

The components for fastening the Towel Radiator to a wall are supplied in a bag together with the appliance. There are four support assemblies, each consisting of the following components:

(A) 1 plastic tube Ø31 x 51mm + screw Ø3(F)
(B) 1 plastic tube Ø22 x 51mm with threaded inserts
(C) 1 screw M6
(D) 1 plastic retainer (conic 15º)
(E) 1 plastic cap
(F) 1 screw Ø3 x 10mm
(G) 1 screw Ø6 x 50mm
(H) 1 nylon stopper Ø10mm

The towel radiator is fixed to the wall by four support assemblies. Two support assemblies should be positioned between the 2nd and 3rd horizontal tubes from the top and two between the 2nd and 3rd horizontal tubes from the bottom. At each level the supports should be spaced so that they are next to the vertical tubes at each end.

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STEP 1
First position the four support assemblies on the towel rail. Locate component (B) in a support position between the tubes from the back of the towel radiator and hold it in position by attaching the retaining component (D) from the front using screw (C). Repeat this in all four support positions.

STEP 2
Now lift the towel radiator onto the wall in the desired location and press against the wall, check that it is level and then mark the position of the four supports. Remove the towel radiator and then drill and plug the wall for the Ø6 (G) fixing screws.

STEP 3
Screw all four components (A) to the wall. Then insert components (B) into components (A) and insert the screws (F). Do not tighten these screws at this stage.

STEP 4
Lift towel radiator onto the supports and secure it there by screwing the retaining components (D) back onto components (B) using screws (C). Now push the plastic caps (E) onto components (D)

Check that the towel radiator is in a perfectly vertical position and tighten the screws (F).

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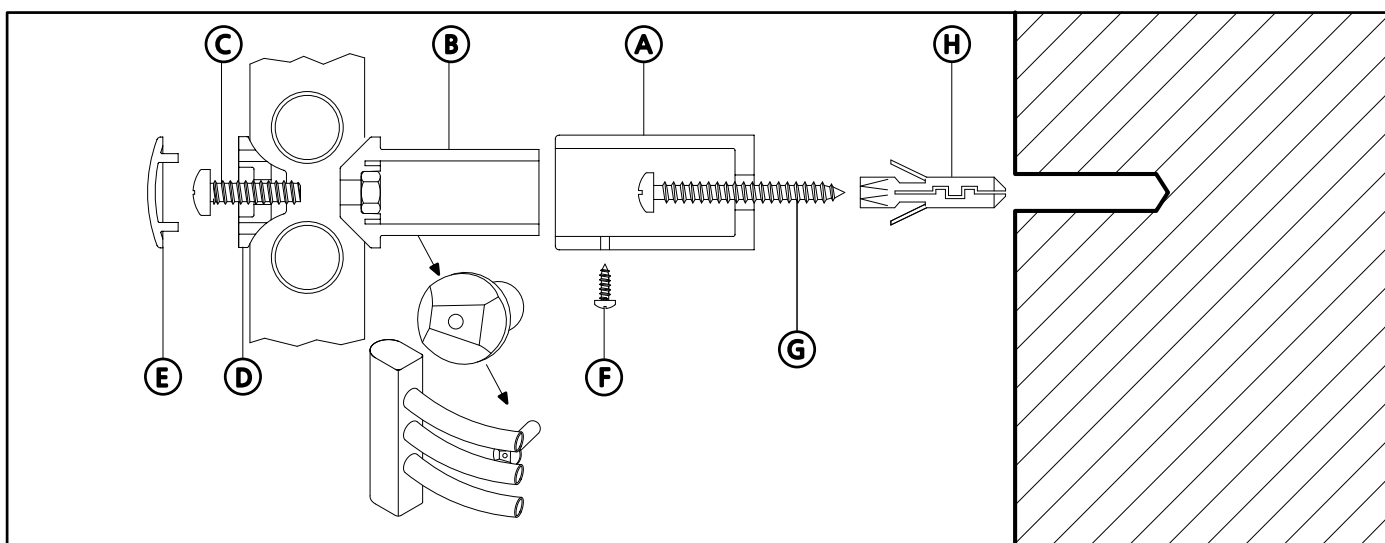
The room temperature is controlled by the electronic thermostat in the control end on the right side of the appliance. The thermostat is precise to ±0.3ºC.

IR receiver:
Allows full remote control of the device through the dedicated remote control.

[+] Button

[Mode] Button

[ON/ stand-by] Button

[-] Button

Plastic cover:
The part connecting to the heating element is kept hidden by this special layout, so that the thermostat fits perfectly to the towel radiator.

Backlit Display:
Displays all device related information

Indicator of active heating element

Comfort/Economy bar (Programme mode)

Operating mode icons:
-Economy
-Frost Protection
-Programme
-2hr Boost
-Pilot Wire
-Comfort

Function:
Open Window Detection

Day of the week

Configured temperature

24h Indicator

IR receiver indicator

Clock

Key-lock icon

Switching On
Once power has been supplied to the radiator it will initially be in the standby mode.

Example in "Comfort" mode.

20.5 °C

12:00

Example in "Stand-by" mode.

Stb

12:00
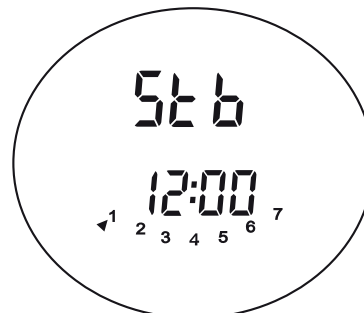
NOTE: When the device goes into "Stand-by" mode it beeps twice for 0.5s.
When the device is activated it beeps once for 1s.

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Setting the Clock

1. In the Stand-by mode press and hold the - button for more than 3 seconds to enter the "Set" menu.
2. Press the + button until "tEd" is shown and then press the Mode button.
3. Use the +/- buttons to select the day of the week (1 = Monday) and confirm by pressing the Mode button.
4. Repeat the use of the +/- buttons and the confirming using mode for both the hours and minutes.
5. Once the minutes have been set the device will return to the stand-by screen.

Function Modes:

Press the Mode button to change between the mode screens shown below:

🏠	☀	🌙	❄	2h	🕐
Pilot Wire	Comfort	Economy	Frost Protection	2hr Boost	Programme

Pilot Wire

When in the pilot wire mode, if the heater is connected to a pilot wire controller the appliance can receive four type of control signal:

1. Comfort (required temperature set by the user)
2. Economy (fixed at 3.5ºC less than comfort)
3. Frost Protection (7ºC)
4. Stand-by

Comfort Mode

Press the Mode button until comfort is selected, then press the + or - to adjust the temperature.
Pressing and holding either button will change the temperature rapidly.
The temperature ranges between 7ºC and 32ºC.

Economy Temperature Mode

Press the Mode button until economy is selected, then press the + or - to adjust the temperature.
Pressing and holding either button will change the temperature rapidly.

Frost Protection Mode

Press the Mode button until frost protection is selected. This will maintain the room temperature at 7ºC.

2-Hour Boost

This mode will force continued heating for 2 hours independent of the room temperature (It will heat the room to a maximum temperature of 32 ºC), after this time the radiator will return to the previously operated mode.

Programme Mode

This operating mode will run the user created 24 hour 7 days a week program.
To create your program follow the steps below

1. In the Stand-by mode press and hold the - button for more than 3 seconds to enter the "Set" menu.
2. Press the + button until "Prog" is shown and then press the Mode button.
3. Use the + or - buttons to programme whether the radiator is programmed as either comfort or economy respectively for each hour.
4. Press the Mode button to move to the next day until the whole week is completed at which point it will return to the stand-by mode.

Keypad Lock

To lock the buttons (Except the On/Standby button) press the Mode button for 3 seconds. A key symbol will appear on the screen to signify it being locked. To unlock, press the Mode button for 3 seconds again – the key symbol will disappear.

Stb
12:00
1 2 3 4 5 6 7
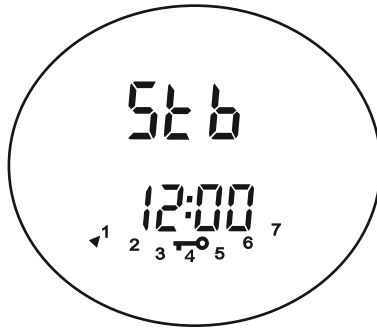
OpenWindow Detection

When the Open Window Detection function is enabled, the device is able to sense an open window by registering a sudden decrease of the temperature in the room. In such a case, the device deactivates the heating element for a maximum of 30 minutes or until an increase of the room temperature reveals that the window has been closed.

To activate this function:
1. Enter the Stand-by mode
2. Press the + button for 3 seconds
3. Press the + button to activate/deactivate the function, then press the mode button to confirm and return to the standby screen.

SEt
on

SEt
oFF
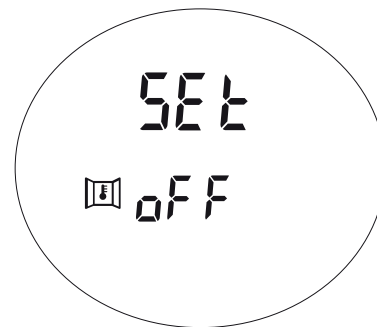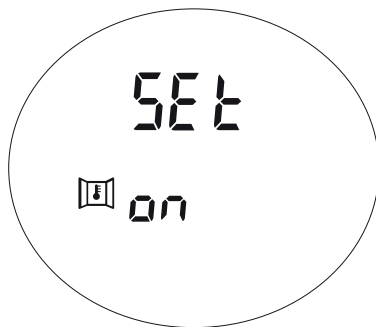
When this function is enabled, the "Open Window" icon is shown on the display.
When the device detects that the window is open, the "Open Window" icon starts blinking.
When the function is disabled the "Open Window" icon is not shown on the display.

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The Remote Control (Optional)

General Description

The remote control communicates with the radiator using infra-red signal from a maximum distance of 10m from the appliance and requires 2x AAA batteries.
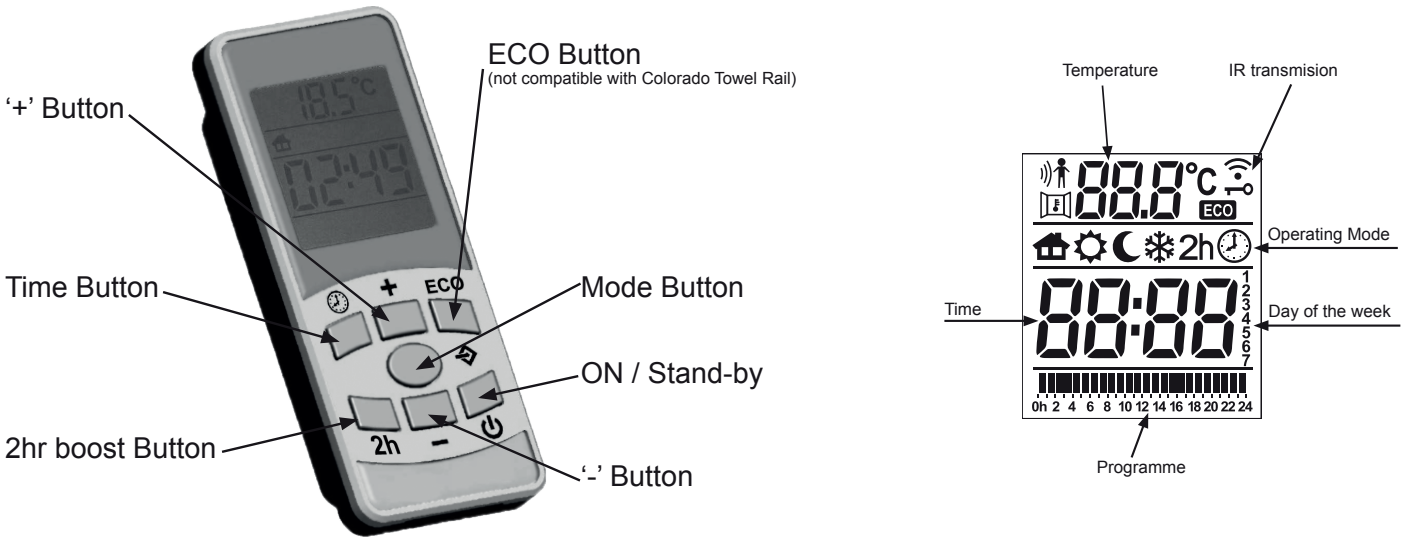
Setting the Time

Once the batteries have been installed the LCD screen will display all symbols for 3 second after which the date and time need to be set.

1. Set the day using the + or – button and press the mode button to accept.
2. Next set the hour using the + or – button and the mode button to accept again.
3. Set the minutes with the + or – button at which point pressing the mode button will accept the final change and the remote will go into stand-by mode.

Selecting the Operation Mode

The operation mode can be selected using the mode button; these are the same as those on the radiator and have the same function unless specified below.

Comfort and Economy Temperature Setting

To set the temperature for both the comfort and economy modes; select the desired mode using the mode button and set the temperature using the + or – buttons. The economy temperature can never be set higher than the comfort temperature.

Programme Mode

To set the user programme press the time button and the current day will flash. Accept the day, hour and minutes using the mode button, after which the user programme can be selected in the same method as completed on the radiator control end.

IR Transmission

Any alterations made using the remote control will be sent to the radiator via an IR signal after 1 second of inactivity. This can be seen by the IR transmission symbol flashing in the top right hand corner.

Keypad lock

This function allows the user to lock the keypad on the remote to avoid inadvertent changes. It also locks all the buttons apart from the standby button. To enable the Keypad lock function, press both the mode and + buttons together for 3 seconds. To disable the function, repeat the same procedure.

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OPEN WINDOW DETECTION FUNCTION

To enable the "open window detection" function, press both the ECO and - buttons together for 3 seconds.

To disable the function, repeat the same procedure.

2-Hour Boost

This mode will force continued heating for 2 hours independent of room temperature, after this time the Colorado the radiator will return to the previously operated mode.

To select this press the 2-Hour Boost button. To cancel it at any time within the 2 hour time period press the button again.

Low Battery Warning

When the battery is running low the display will periodically display 'bAtt' at which point the batteries should be changed.
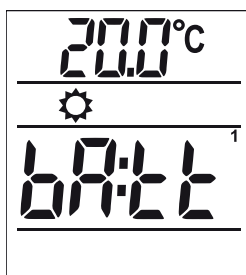
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Ducasa Single Zone Remote Programming Quick View Instructions

Make sure remote shows a symbol in between the 2 lines, above the clock. If not press ⏻

↓

First set the date and time by pressing 🕐

↓

Use +/- to select the day (1=Monday, 7=Sunday) then press ⇒

↓

Use +/- to select the hour then press ⇒

↓

Use +/- to select minute then press ⇒

To change Comfort and Economy temperatures

↓

Press ⇒ until Comfort (✲) is shown & then set temperature using +/- then press ⇒

↓

Set Economy (☽) temperature using +/- then press ⇒ until 🕐 is shown on remote.

↓

Sending program to heater

↓

Press ⏻ to turn remote to Standby.

↓

Point remote at the heater & then press ⏻

↓

Once the screen flashes, your program has been transmitted to heater & heater running program

To change a program

↓

Press 🕐 and then press ⇒ 3 times

To create a program

↓

You select the mode required for each hour of the day starting from midnight Monday

↓

You will choose from either Comfort (✲) by pressing + or Economy (☽) by pressing –

↓

Repeat for every hour of the day

↓

Once satisfied with programme for day 1 press ⇒

↓

Repeat previous 4 steps for the next 6 days

⏻	Standby
🕐	Time/Program
✲	Comfort
☽	Economy
⇒	Mode/OK

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LoT 20 Table

Models	MCR 40/120	MCR 40/140	TCR 140
Heat output			
Nominal heat output (P_{nom})	0.45kW	0.75kW	0.45kW
Maximum continuous heat output ($P_{max,c}$)	0.45kW	0.75kW	0.45kW
Auxiliary electricity consumption			
At nominal heat output (el_{max})	0.00044 kW	0.00044 kW	0.00044 kW
At minimum heat output (el_{min})	N/A	N/A	N/A
In standby mode (el_{SB})	0.00037 kW	0.00037 kW	0.00037 kW
Type of heat output/room temperature control:	Electronic room temperature control plus week timer		
Other control options:	Room temperature control, with open window detection With adaptive start control, With working time limitation.		
Heattend Products Ltd, **https://www.heattend.co.uk/** Email: enquiries@heattend.co.uk			

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Installation Notes:

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Installation Notes:

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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 10 years against leakage and 2 years on electric and electronic components 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.

Correct Disposal of This Product

(**W**aste **E**lectrical & **E**lectronic **E**quipment)
(Applicable in the European Union and other European countries with separate collection systems)
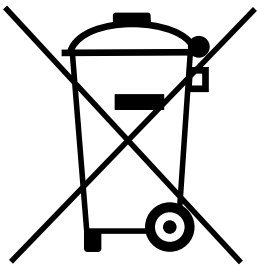
This marking shown on the product or its literature, indicates that it should not be disposed of with other household wastes at the end of its working life.

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.

EcoDesign
Lot 20: Energy Related Products
COMPLIANT

ADVANCED ELECTRIC HEATING

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UK Distributor of Ducasa Products:

Heattend Products Ltd

Web: www.heattend.co.uk

Email: enquiries@heattend.co.uk