

SERIES 14

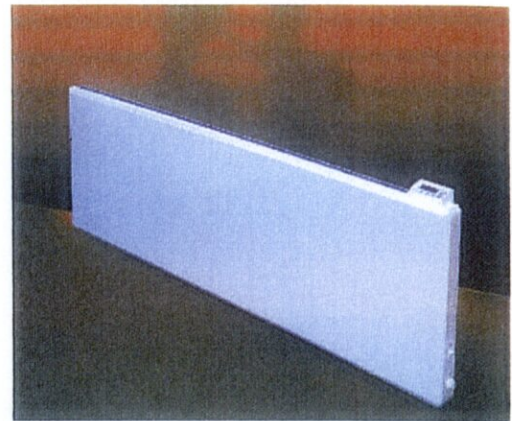
Practical, versatile & with Designer appeal

The Series 14 range replaces the previous Series 9 range and offers a host of new technical and design features.

Available in three models, the E4EN, E4EU and E4E-GB and 6 output ratings between 500 Watt and 2000 Watt, the Series 14 is classified as splash proof to IP24, incorporates as standard overheat safety cut-out, top air outlets and safety conscious smooth rounded corner profiles.

The Models E4EN and E4EU are low capital investment products that are centred on reducing costs and improving quality.

The Model E4E - GB has been designed to satisfy the needs of the most sophisticated interior requirement. It is fully compatible with the Multi-zone Orion 700 RF digital programmer and utilises the full range of the celebrated Series 8 plug-in thermostats.



Features:

Model E4EU

- Fully programmable 24 hour and 7 day digital timer with Auto On, Auto Off and manual mode
- Programme override control
- Power failure memory backup of 150 hours using internal rechargeable Ni-cd battery
- Summer/Wintertime quick changeover facility
- Temperature control uses fully electronic totally silent thermostat
- Variable temperature control from 5 to 30°C
- Easy read thermostat control
- Tamperproof covers available for the on/off switch and thermostat control
- Low Capital Cost

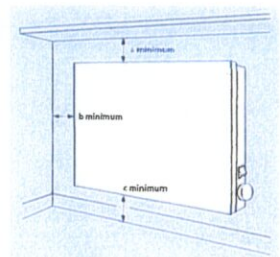
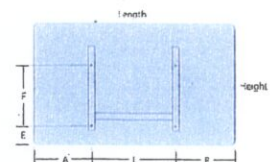
All the models share these characteristics:

- Classified as splash proof to IP24
- Overheat safety cut-out
- Easy cleaning with hinged wall brackets
- Finished in elegant White to RAL 9010
- Available in 500, 750, 1000, 1250, 1500 and 2000 Watt outputs
- Safety conscious smooth rounded corner profiles
- Top air outlet

Model	Rating Watt	Length mm	Height mm	Depth from wall mm	A mm	L mm	B mm	E mm	F mm	Weight kg
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Series 14 - E4EU

E4EU 0500	500	475	400	71	137.5	200	137.5	70	200	3.4
E4EU 0750	750	625	400	71	162.5	300	162.5	70	200	4.3
E4EU 1000	1000	775	400	71	187.5	400	187.5	70	200	5.2
E4EU 1250	1250	975	400	71	187.5	600	187.5	70	200	6.4
E4EU 1500	1500	1125	400	71	262.5	600	262.5	70	200	7.5
E4EU2000	2000	1525	400	71	262.5	1000	262.5	70	200	9.9



Clearance dimensions (mm)

	a	b	c
Series 14	100	10	70

NOBO Heating UK Limited

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Regional Offices:

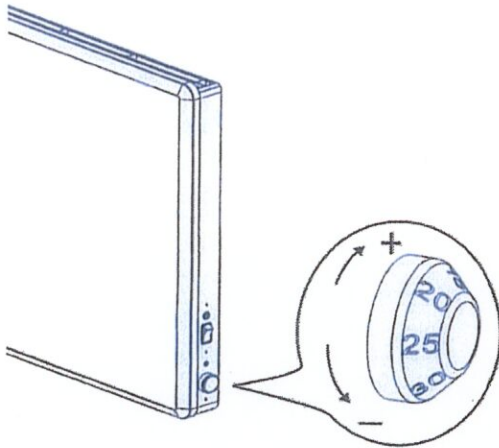
London & South East
South West
North West
Midlands
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NOBO PANEL RADIATORS

SERIES '14' OPERATING INSTRUCTIONS



OPERATING INSTRUCTIONS

Switch the heater on On / Off switch, 1 = On, 0 = Off.

Set required temperature with control knob.

Rotate clockwise to increase the temperature setting or anticlockwise to reduce the temperature setting.

Min = 5°C - Max = 30°C

The temperature setting of the heater/s should be adjusted to provide the required room temperature.

Turning the control to its maximum setting and allowing the heater to run flat-out for long periods is not recommended because this produces high air leaving temperatures which can lead to discolouration.

A heater will have to work much harder if adjacent rooms are unheated, if the Hall, for example is left unheated and the door is open.

It is far better to use all of the heaters together.

Where a room has more than one heater, all of the heaters should be used together and the control settings should be balanced so that they all operate at the same temperature. It is not considered to be good practice to have one heater operating at a higher temperature than another or for one heater to be switched off leaving the other to do all of the work.



Discolouration may occur in rooms where there is smoke or air pollution, the burning of candles or combustion of any carbon based material will produce soot deposits.

The convection current created by warm air leaving the heater will circulate the air within a room and any fumes or pollution in the air will also be circulated through the heater.

NOTE

A minimum clearance of 50mm around all surfaces should be maintained with 100mm clear above the heater.

The heater must not be covered or things be placed on top of, over, or against the heater. Covering the heater could cause a fire.

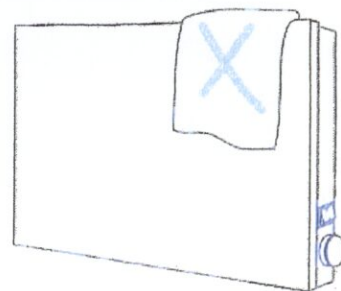
The heater is fitted with an over-temperature cut-out which will switch off the heating element in the event of the heater becoming too hot. The element will not be switched back on again until the heater has cooled.

CLEANING

The heater may be cleaned with a damp cloth and mild detergent.

The heater may be tilted forwards on its mounting bracket for cleaning and decorating behind the heater.

Pressing the clips downward at the back of the heater will release the heater from the mounting bracket.



NOBO PANEL RADIATORS

SERIES '14' OPERATING INSTRUCTIONS

E4EU Panel heaters with an integral timer should be left switched on all the time. The switch on the side of the panel heater should be in the position 'I' and the supply switch on the wall should remain 'on'. A supply of power is necessary to maintain the clock operation, although there is an integral battery for programme backup purposes a continuous power supply is needed.



When the heater is first switched on several minutes should be allowed while the timer battery charges up. This can take upto 24 hours for a full charge to happen and the display may not be fully established at first. It may also be necessary to start the timer and set the time, if the colon is not flashing, the 'TIME' button must be pressed to start the timer, **none of the functions will work until the colon is flashing.**

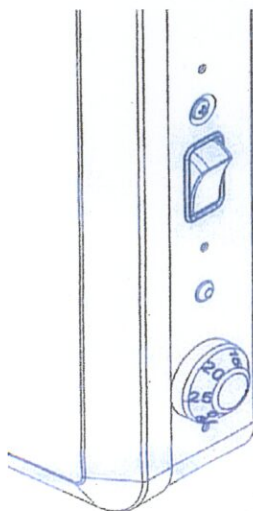
If the timer display shows an incomprehensible jumble, press the 'RST' to clear the screen and start again by setting the time.

The 'HAND' button should be used to select one of four operational modes.

'ON'	Manual Continuous Operation:	Heater is 'ON'
'AUTO ON'	Auto Operation:	Is 'ON' but will go 'OFF' if the programme instructs it to do so.
'OFF'	Manual Continuous Operation:	Heater is 'OFF'
'AUTO OFF'	Auto Operation:	Is 'OFF' but will come 'ON' if the programme instructs it to do so.

Please note:

Even if you do not use the programme part of the timer, you should leave the heater switched on all of the time, as mentioned above, using the 'HAND' button to select either 'ON' or 'OFF' as you require.



If the power supply is switched off and the rechargeable battery is allowed to go flat, when you switch the heater on again you may find that it will not work until the battery has charged and the timer has been set.

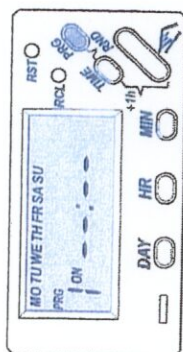
On / Off switch - shown in the 'ON' position

Operational light - Red LED shows when the heater is calling for heat, This light goes off intermittently when the set temperature is achieved.

Temperature adjustment control - shown with a setting of approx. 18°C.

3 PROGRAMMING (PRG)

The timer allows you to program 6 ON/OFF time periods. To enter the program mode push the PRG button (do not hold it down). The display will look as follows:



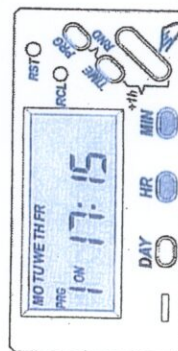
The timer is waiting for the first programmed ON instructions. Set the day(s) you require by pressing the DAY button. Each push of the DAY button will cycle through the following options:

1. All 7 days of the week
2. Each separate day
3. Week-days only
4. Weekend
5. Monday to Saturday
6. Monday, Wednesday, Friday
7. Tuesday, Thursday, Saturday

NOTE: Setting the heater to turn ON and OFF for one of the above options uses only one of the six ON/OFF program time periods available.

The day(s) that the timer will come on will be shown at the top of the display. Keep pushing the DAY button until you have selected the setting that you wish to use.

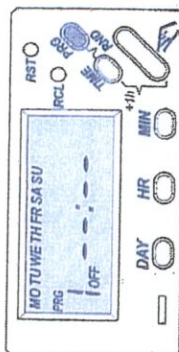
Next, set the time you wish the timer to switch on by pushing the HR and MIN buttons. This timer has a 24 Hour display. Remember, 13:00 corresponds to 1:00PM in the afternoon.



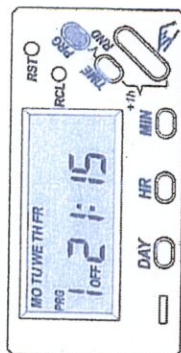
In the above example, the timer is set to switch on at 5:15pm every weekday.

Once you have set the time for the timer to switch ON, you must then set the time for it to switch OFF. Press the PRG button.

The display will now look as follows:



The timer is now waiting for the time that you want it to be switched off to be set. Set the OFF time in the same manner in which you set the ON cycle.
IMPORTANT: Ensure the day(s) for the 'OFF' cycle are the same as for the 'ON' cycle.



The above example shows the timer set to switch off 4 hours after it switched on every week-day.

Once you have set the OFF time, you can continue to cycle through the remaining ON/OFF programs by pushing the PRG button. The number of the Program (1-6) and ON or OFF times will be displayed on the screen. Set the times for other programs in the same way as described above. Push the TIME button once you have completed programming all the desired ON/OFF times. It is not necessary to set all 6 programs.

If you wish to clear a program setting, push the RCL button using a ballpoint pen or sharp pencil. Pushing the RCL button again will reinstate the setting. Only the displayed setting will be affected.

4. OVERRIDE

Press the Override button to set the timer to your desired operation mode. Each push of the button will cycle through the following settings which are shown on the display:

ON: Overrides all programming and switches the timer permanently on.

AUTO ON: The timer is switched ON and will be switched OFF at the next programmed OFF time.

OFF: All programming is overridden and the timer is switched permanently off.

AUTO OFF: The timer is switched off and will switch on at next programmed ON time.

NOTE: Heater can only be immediately manually turned on when the **OVERRIDE** button is in the **ON** position and not in any other position. The red indicator button located near the **DAY** button will be illuminated when the timer is operating. The light near the thermostat wheel will also be illuminated when the heating element is energised.

5 DAYLIGHT SAVING

The Daylight saving function allows you to reset the time when daylight saving begins. To change to daylight saving mode push and hold down the time button and the  button simultaneously. The time will forward by one hour and a small "+1h" symbol will be displayed in the top right corner of the display. Repeat the above procedure to return to normal time. The "+1h" symbol will disappear.

6 RANDOM (RND) FUNCTION

This function is to be used in case of several heaters running on the same supply-course to prevent overload situations at programs with coincident ON-time settings.

Press the **TIME**- and **PRG**-buttons simultaneously to activate the function. Repeat the operation to deactivate the function.

NOTE: For this function to work properly, the interval between On-Off-times should be minimum 33 minutes.

7 SKIP (RCL) FUNCTION

This function provides the possibility of overriding the programs in such a way that their ON or OFF time settings will not be affected. For example one or more programs may be overridden and all other programs left intact.

7.1 Press the **PRG** button several times to select the desirable program. Choose either **ON** or **OFF** times for each program or a mixture of both.

7.2 Press the **RCL** button for each program (**ON** or **OFF** time) that you wish to override. If the **OFF** time is overridden (skipped) the **ON** status will remain until the next program's **OFF** time is reached

7.3 Press the **TIME** button to return to normal operation mode.

Repeat the above steps to restore the original program times.

8 UNIT FAILURE

Contact your **NOBO** dealer for heater or timer replacement if the display remains blank after charging (after 5 minutes of turning on power to the heater), or fails to operate in any other way.

Distributor GB:

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Head office:
Unit 15, Gravelly Industrial Park
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Distributor AUS:

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TIMER OPERATION OF N4EU AND E4EU NOBO PANEL HEATERS

1 INITIAL OPERATION

1.1 The timer uses rechargeable batteries that need charging before the timer functions can work. Before attempting any programming and before the heater can be operated, plug it into a power point and turn it on using the **O/I** switch on the side (**I** is on, **O** is Off). Allow around 5 minutes for the initial charge.

1.2 Use a pointed object, such as a pen or pencil, to clear the memory by pushing the **RST** (**RESET**) button.

NOTE: The **TIME** button must be pressed to start the clock and the **OVERRIDE** button  switched to the **ON** mode before the heater will operate. The flashing two dots in the middle of the time display indicates clock is operating – none of the functions will work until the two dots are flashing. The red light situated next to the **DAY** button, when illuminated, indicates timer is operating. The light near the thermostat wheel will also be illuminated when the heating element is energised i.e. producing heat.

2 TIME SETTING

Before attempting to program the timer, ensure that the correct time is set as follows. Please note that a 24hr timer is fitted to the heater. Thus 15:00 corresponds to 3:00 PM in the afternoon. Press and hold down the **TIME** button during the time setting procedure.

2.1 DAY

Press and hold down the **TIME** button and press the **DAY** button simultaneously to set the correct day. The day value increases by one by each push of the **DAY** button.

2.2 HOUR (HR)

Press and hold down the **TIME** button and press the **HR** button simultaneously to set the correct hour. The hour value increases by one by each push of the **HR** button.

2.3 MINUTE (MIN)

Press and hold down the **TIME** button and press the **MIN** button simultaneously. The minute value increases by one by each push of the **MIN** button.

Once the correct time settings are made, stop pressing the time button.

NOTE: Holding down the **DAY/HR/MIN** buttons for more than two seconds will give a fast run through.

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