

REZNOR

COMMERCIAL AIR CURTAIN AC, ACR & ACT MINI SERIES



INSTALLATION/ COMMISSIONING/SERVICING



BS EN ISO 12100:2010 Safety of machinery.

BS EN 60204-1:2018 Safety of machinery. Electrical equipment of machines.

BS EN 55014-1:2017 Electromagnetic compatibility.

BS EN 60335-2-30:2009+A11:2012 Safety.

Electrical Equipment (Safety) Regulations 2016

Electromagnetic Compatibility Regulations 2016

Please read this document carefully before commencing installation, commissioning and/or servicing.
Leave it with the end user/site agent to be placed in their premises technical file after installation.

WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death.
All work must be carried out by appropriately qualified persons.

The manufacturer does not take any responsibility in the event of non-observance of the regulations concerning the connection of the apparatus causing a dangerous operation possibly resulting in damage to the apparatus and/or environment in which the unit is installed.

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AC / ACR / ACT Mini Range

The AC / ACR / ACT Mini series are commercial / retail air curtains designed for use over doors.

AC models are designed for mounting on walls or ceilings.

ACR models allow positioning in a suspended ceiling or bulkhead above doorways where low visual impact is required.

ACT models are designed for mounting in a tiled ceiling.

All models include electric heating as standard. The heaters will fit a recess as shallow as 195mm.

The heaters are designed for discreet positioning in a suspended ceiling or bulkhead in the doorways of retail or commercial premises. Overall energy saving is likely when the heater is sited above a frequently opened external door as the air stream can prevent heat loss.

Models

There are three models available in the range:-

- 622mm long rated at 3.0kW
- 800mm long rated at 4.5kW
- 1000mm long rated at 6.0 kW

Mounting

The unit should be positioned so that the airflow is not obstructed by any part of the door frame. When installed the top of the heater case should be a minimum of 200mm from the ceiling.

Installation

All installations must be in accordance with the regulations in force in the country of use.

These instructions must be handed to the user on completion of the installation.

Installers and service engineers must be able to demonstrate competence and be suitably qualified in accordance with the regulations in force in the country of use.

To ensure continued and safe operation it is recommended that the appliance is serviced annually.

Location

The units should be installed horizontally directly over the door opening. It is recommended that the air curtain is installed on the inside of the building, within the open room space against a wall or ceiling. Care must be taken to allow complete free air movement into the inlet grilles of the unit to ensure correct operation. The discharge opening should be as close to the top of the door as possible and cover the entire door width.

When mounted over a standard shop doorway the unit should be less than 2.5 metres from ground level. A single MINI 600SE3 will provide reasonable coverage for an internal doorway; a single MINI 800SE4-5 unit will provide coverage for a disabled entrance doorway width up to 800mm; and a MINI 1000SE6 unit is suitable for door widths up to 1m wide. Units can be interlinked across wider entrances.

The unit should be mounted so that the airflow is not obstructed by any part of the door frame. The minimum clearance distance to the ceiling is 300mm.

These units are designed for surface mounting and should not be placed into a ceiling void, due to possible obstruction of airflow and difficulty in routine cleaning and maintenance.

Warranty

This equipment comes as standard with a manufacturer's 12 month warranty from the date of purchase unless otherwise agreed with the distribution partner. The warranty is void if:

1. The installation is not in accordance with these instructions.
2. Wiring is not in accordance with the diagrams included in this manual.
3. The unit is installed without proper clearances wherever clearances are required.
4. The unit has not been serviced and maintained in accordance with the information contained within these instructions.

Technical Data

Model	Heat input kW	Window/door width mm	Door height mm	AIRFLOW m ³ /h
AC Mini 600SE3-RX	3	600	2300	180
AC Mini 800SE4-5-RX	4.5	600	2500	216
AC Mini 1000SE6-RX	6	900	2500	432

Table 1 data overview

Model	A	B	C	D	E
AC Mini 600SE3-RX	606	510	70	230	250
AC Mini 800SE4-5-RX	806	710	100	300	450
AC Mini 1000SE6-RX	996	900	95	400	640

Table 2 dimensions

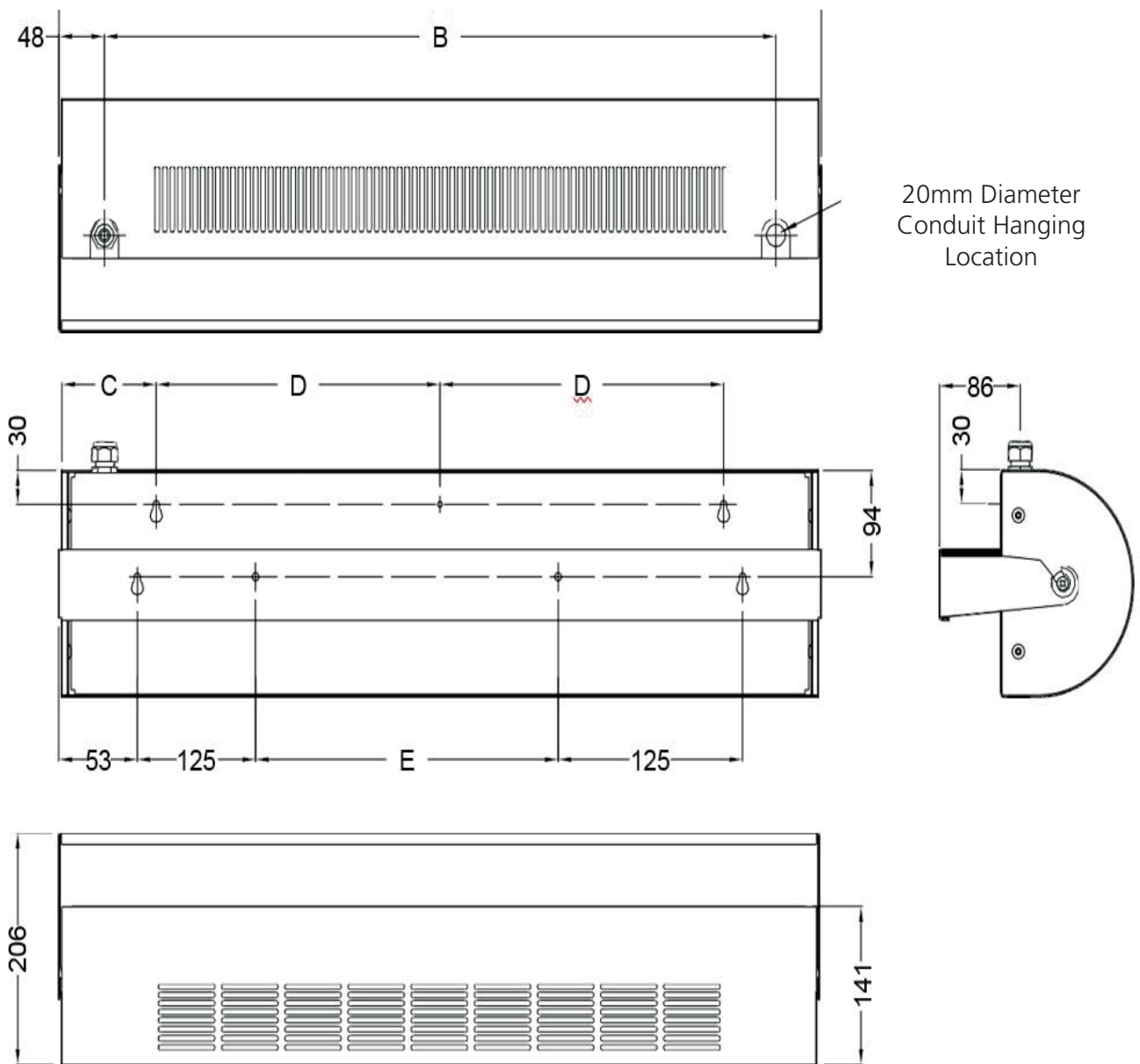


Figure 1 dimensions

General Data		AC Mini 600SE3-RX	AC Mini 800SE4-5-RX	AC Mini 1000SE6-RX
Maximum height	M	2.3	2.5	
Door width	mm	600	800	1000
Heat medium		Electric heated		
Maximum heat capacity	kW	3.0	4.5	6.0
Heat setting (switch box versions)		3	2	3
Heat setting power (switch box versions)	kW	1 / 2 / 3	2.25 / 4.5	2 / 4 / 6
Heat setting power (wireless versions)		Variable		
Fan type		Crossflow		
Fan diameter	mm	60		
Fan settings		1		
Air outlet		Fixed vent		
Switching type		Front switches / Hard wired remote controller	Remote switch box / Hard wired remote controller	
Weight	kg	5.1	5.1	8.8
Electrical Data				
Maximum heat capacity	kW	3.0	4.5	6.0
Supply voltage		230V 1ph 50Hz		
Total load	amps	13	20	26
Cable size		2.5mm ²	4.0mm ²	6.0mm ²
External fuse size amps	amps	13.0	25.0	32.0
Switch box wiring		n/a	4 x 4.0mm ² + E	4 x 6.0mm ² + E
Mains terminal block position		On Switch box		
Control terminal block position		Front right of centre		
Air Data				
Fan setting		2		
Air volume High speed	m ³ /h	273		382
Delta T	°C	35		49
Noise level @ 3M Free field	dBA	46		49
Dims Data				
Length	mm	600	800	1000
Depth (width) including swivel bracket	mm	205		
Depth wall mounted	mm	140		
Height	mm	200		
Swivel bracket centres on length	mm	500	700	890
Wall mounting bottom to centres	mm	170		
Wall mounting centres on length	mm	460	600	800

Table 3 full technical data

AC Mini surface mounted

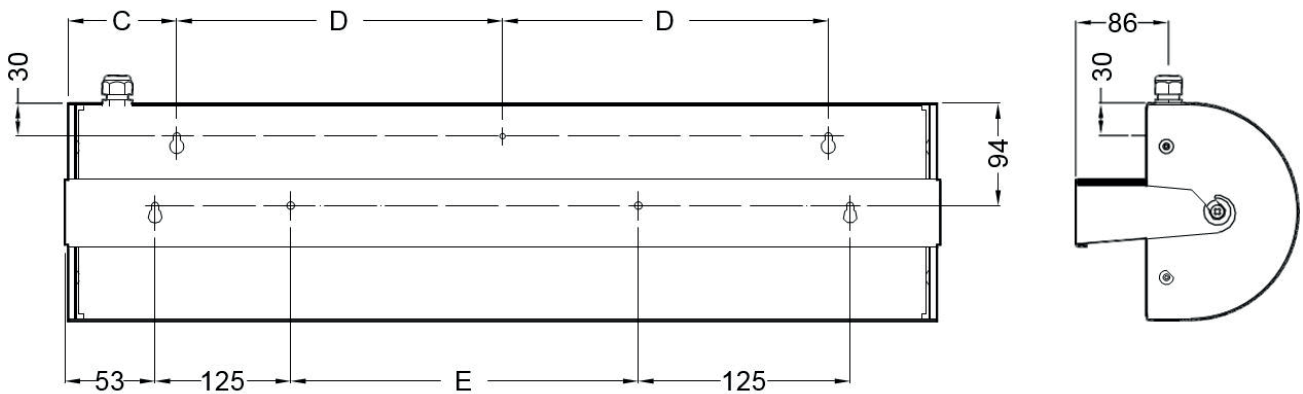


Figure 2 AC Mini fixing centres

Model	C	D	E
AC Mini 600SE3-RX	70	230	250
AC Mini 800SE4-5-RX	100	300	450
AC Mini 1000SE6-RX	95	400	640

Table 4 Fixing centres dimensions

The units should be installed horizontally directly over the door opening. It is recommended that the air curtain is installed on the inside of the building, within the open room space against a wall or ceiling.

Care must be taken to allow complete free air movement into the inlet grilles of the unit to ensure correct working operation of the air curtain.

The discharge opening should be as close to the top of the door as possible and to cover the entire door width.

When mounted over a standard shop doorway the unit should be fitted as low as possible and not more than 2.5 meters or from ground level.

A single unit MINI 600SE3 will provide reasonable coverage for an internal doorway, a single MINI 800SE4-5 unit will provide coverage for an invalid doorway width up to 800mm, and a MINI 1000SE6 unit is suitable for door widths up to 1m wide. Units can be interlinked across wider entrances.

The unit must be mounted so that the airflow is not obstructed by any part of the door frame. With a minimum clearance distance to ceiling of 300mm.

These units are designed for surface mounting and should not be placed into a ceiling void, due to possible obstruction of airflow and difficulty in routine cleaning and maintenance.

The heater may be mounted in three alternative ways:

- Direct to a suitable wall or bearer with appropriate fixings either using the holes in the swivel mounting bracket, or the key hole slots in the back plate of the product. See Figure 1 for mounting centres.
- Suspended by 10mm drop rods through the holes provided in the top of the swivel mounting bracket.
- For use as an air curtain, the air outlet should be directed towards the floor. For use as a heater the air outlet should point into the room.

ACR Recessed mounted



Figure 3 ACR

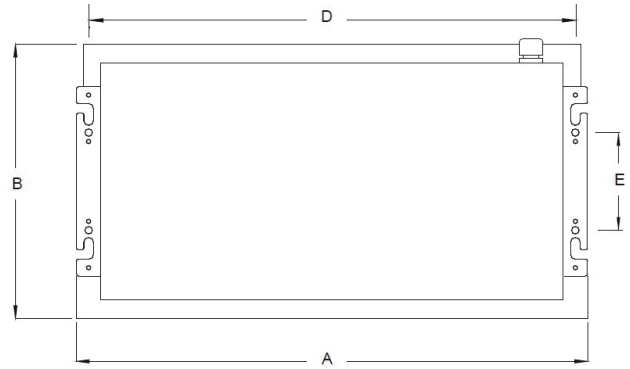


Figure 4 ACR fixing dimensions

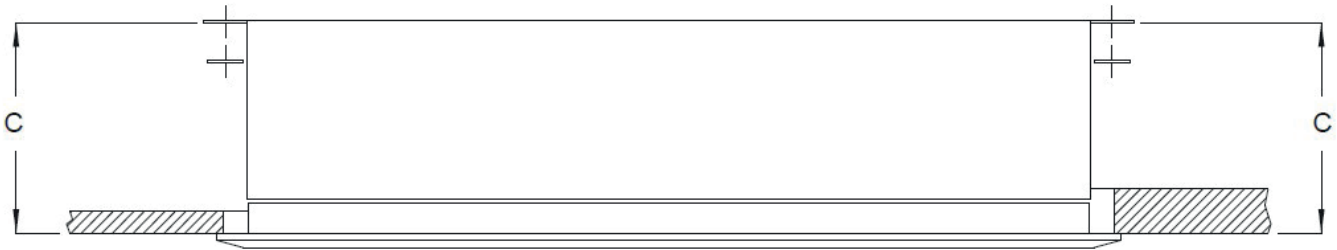


Figure 5 ACR fixing dimensions

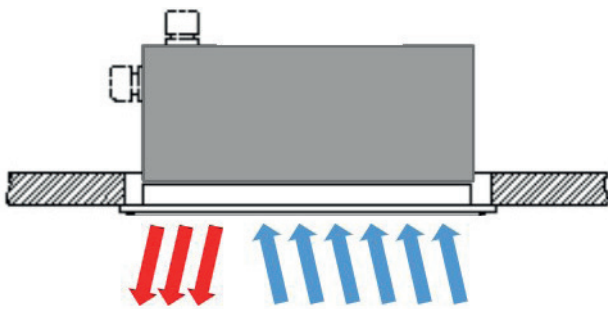


Figure 6 ACR airflow

Model		ACR MINI3	ACR MINI4.5	ACR MINI6
Maximum window width	mm	600	600	900
Maximum mounting height	mm	2800	2800	2800
Maximum air volume	m ³ /h	1646	2085	2851
Approximate weight	kg	9.5	9.5	14
Maximum heating capacity	kW	3	4.5	6
Electrical supply	230/240 volt 3 phase 50Hz			

Table 5 ACR technical details

Model	Dimensions		ACRMINI3	ACRMINI4.5	ACRMINI6
A	Overall Length	mm	618	618	930
B	Overall Width	mm	340	340	340
C	Unit Depth	mm	140	140	140
D	Fixing Bracket Length	mm	605	605	920
E	Fixing Bracket Width	mm	150	150	150

Table 6 ACR dimensions

ACT Recessed ceiling tile heater



Figure 7 ACT recess mounted



Figure 8 ACT surface mounted

Model		Recessed mounted			Surface mounted		
		ACT 03-1 R	ACT 04-1 R	ACT 6-1 R	ACT 03-1 S	ACT 04-1 S	ACT 06-1 S
Maximum heating capacity	kW	3	4.5	6	3	4.5	6
Electrical supply		230 volt 1 phase 50Hz					
Total electrical load	Amps	13	20	27	13	20	27
Dimensions	mm	600H x 600W x 175H			600H x 600W x 187H		
Mounting height minimum - maximum	mm	2200-3000	2200-3000	2500-3500	2200-3000	2200-3000	2500-3500
Mounting height recommended	mm	2500	2500	3000	2500	2500	3000
Approximate weight	kg	7	7	10	10	10	16

Table 7 ACT technical data and dimensions

Electrical Connections

These units are suitable for connection to a 230 V 50Hz single phase AC supply. The heaters consume 3.0kW, 4.5kW & 6kW respectively at 230V when switched to the full heat position.

The appliance should be connected to the supply via a 2 pole fused isolator.

For connection to the mains supply it will be necessary to remove the outer cover from the unit to reveal the mains terminal block. The mains supply and the lead from the remote switch box should then be installed prior to refitting the cover. Wiring should be carried out in accordance with the appropriate diagram given in Figures 9 to 16 following.

For safety reasons, a sound earth connection must ALWAYS be made to the unit. The unit should be wired in accordance with the current IEE Regulations for the Electrical Equipment of Buildings. Refit the cover and test for correct operation.

Wiring diagrams

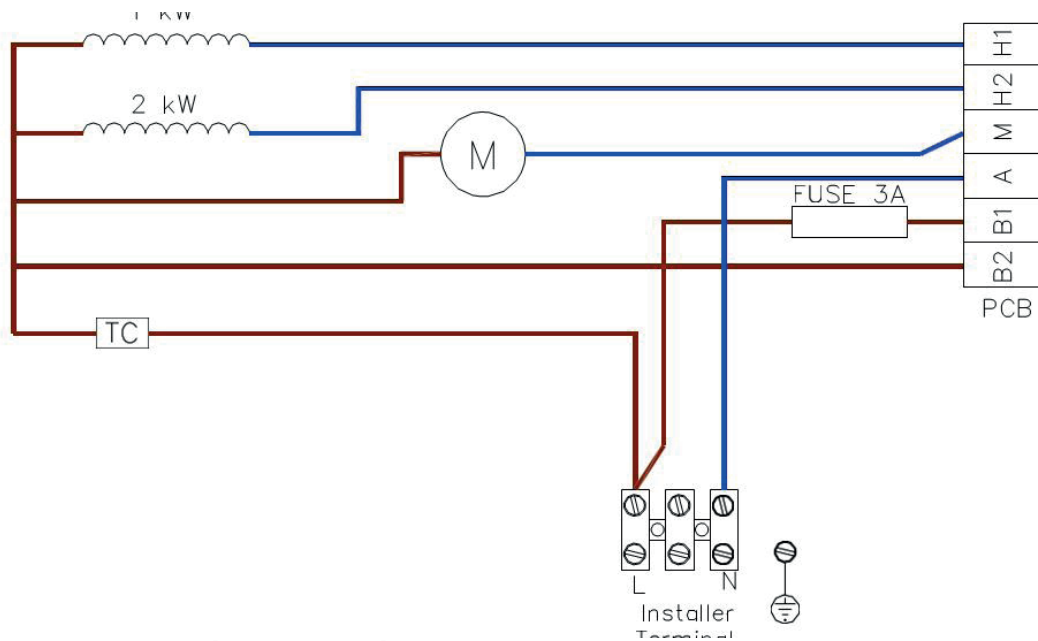


Figure 9 MINI 600SE3 3.0kW internal wiring.

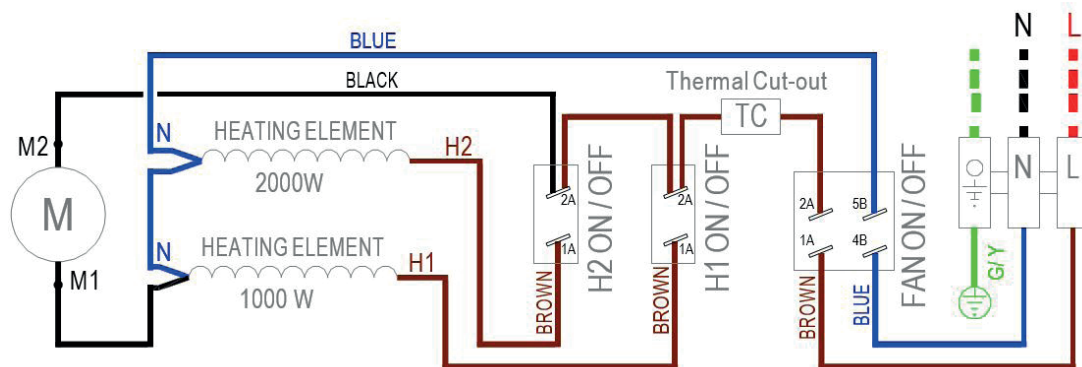


Figure 10 MINI 800SE4-5 4.5kW internal wiring

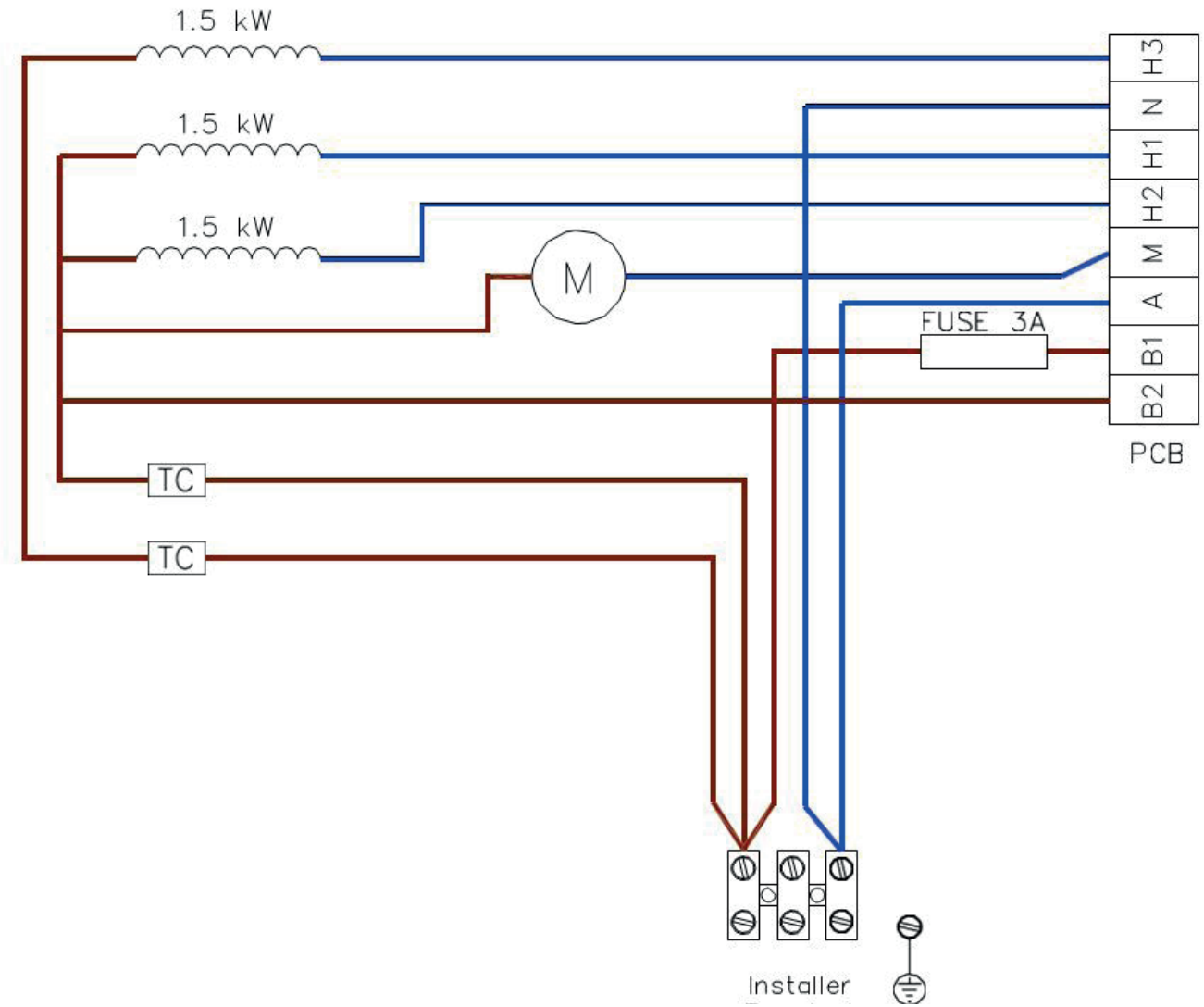


Figure 11 MINI 1000SE6 6.0kW internal wiring

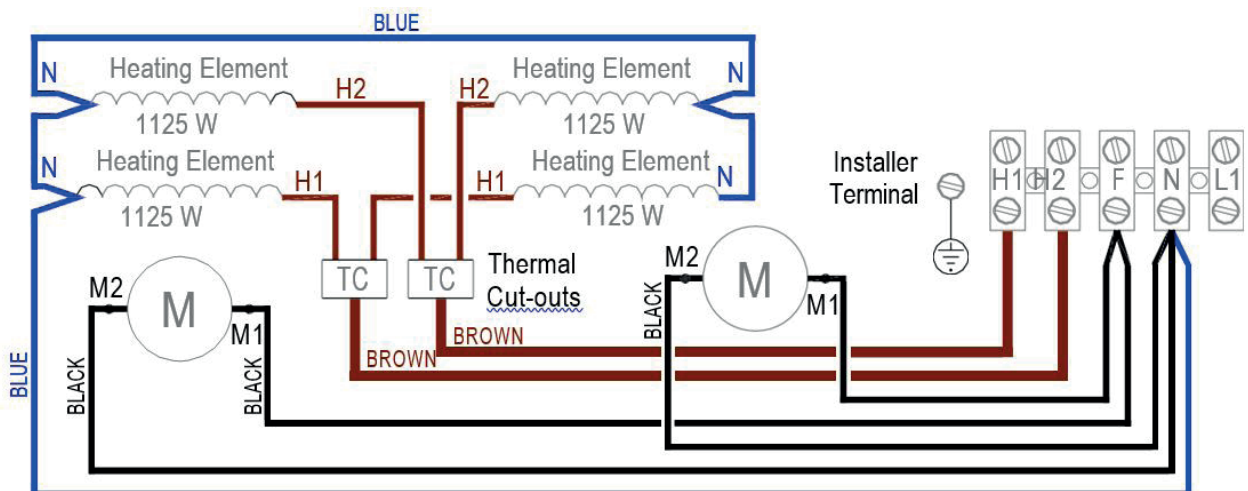


Figure 12 MINI 600SE3 3.0kW internal wiring.

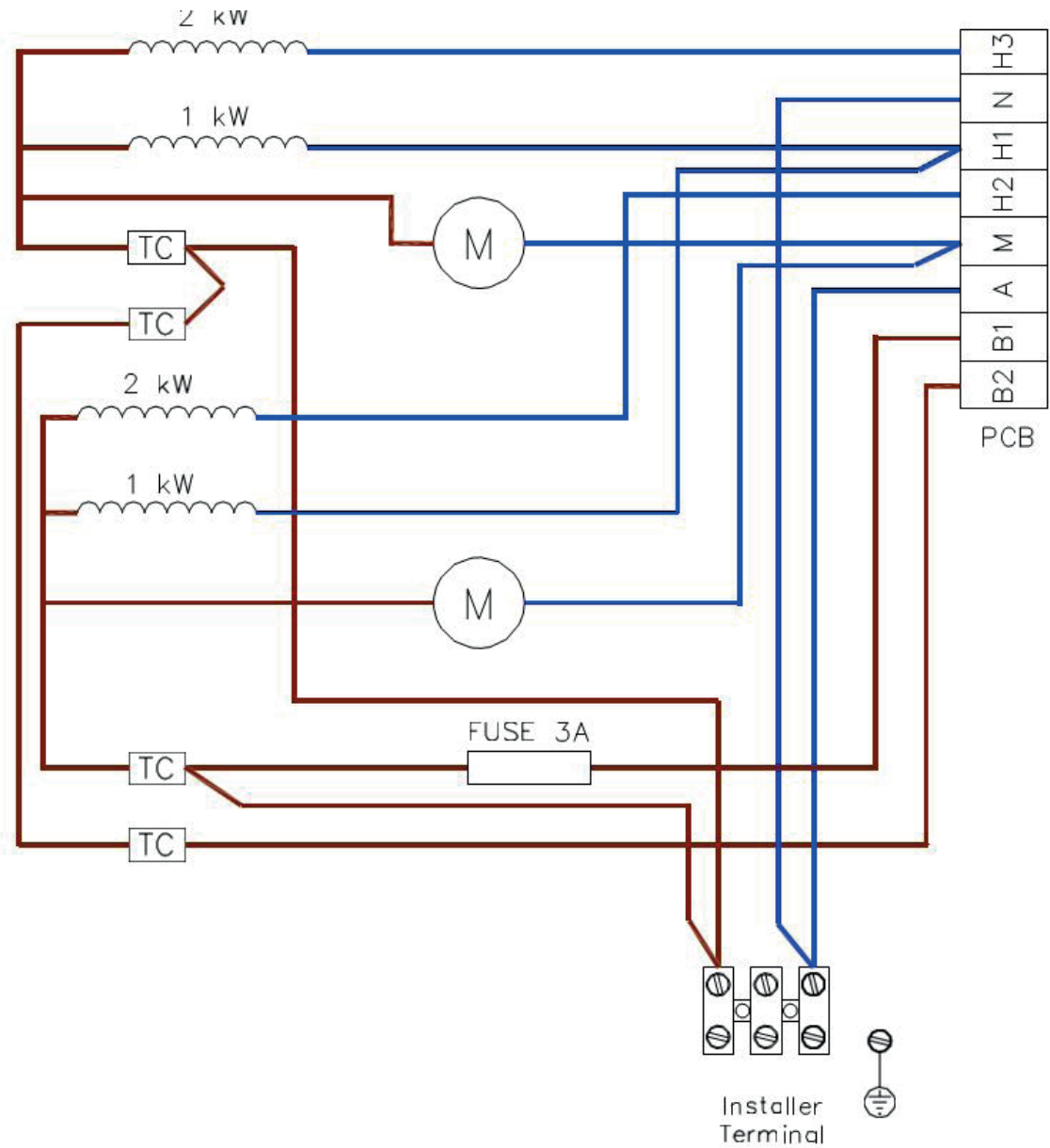


Figure 13 MINI 800SE4-5 4.5kW internal wiring

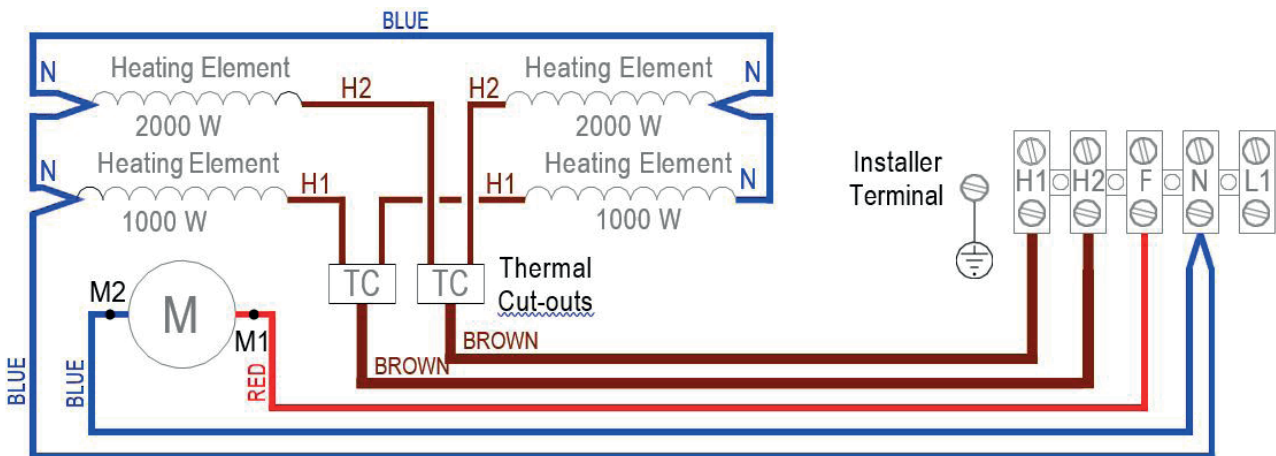


Figure 14 MINI 1000SE6 6.0kW internal wiring

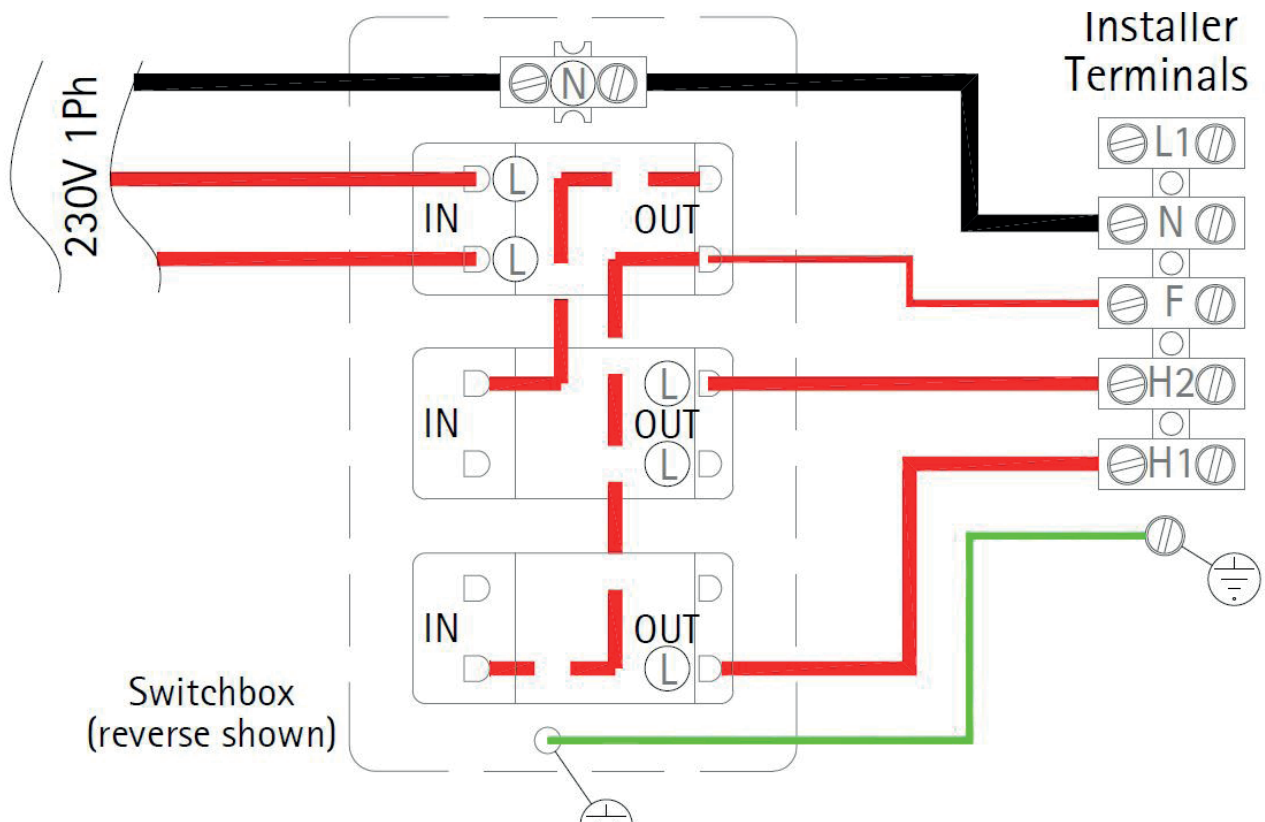


Figure 15 MINI 800SE4-5 4.5kW & MINI 1000SE6 6kW Switch box Interconnecting Wiring

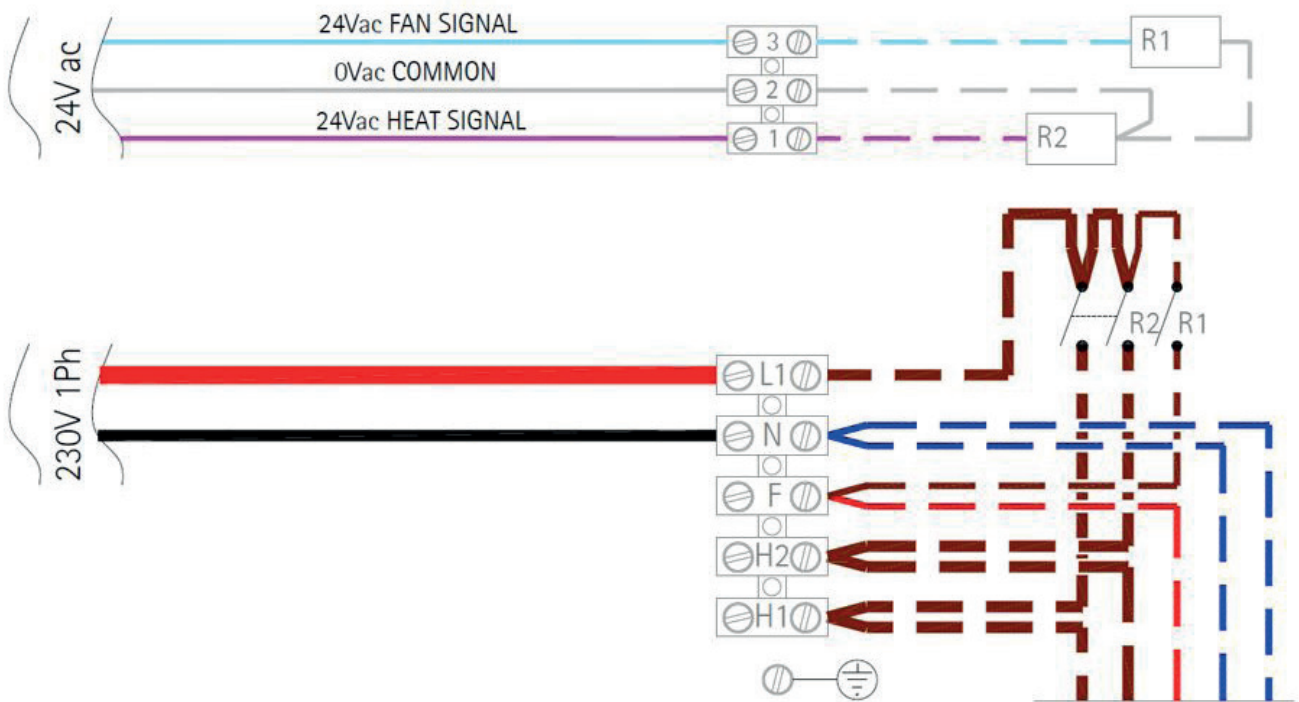


Figure 16 Special application 24Vac switching. Internal and external installer wiring.

Commissioning

The MINI 600SE3

Air curtain is supplied with rocker switches attached to the underside of the front face, or an optional wireless remote controller.



Figure 17 Rocker switches on the AC Mini 600 SE3

The red right hand switch switches the blower on to give ambient airflow. With the right hand switch in the ON position the heat controls can be selected.

When the centre switch (marked with a single black line) is depressed the heat output is 1kW.

When the left hand switch (marked with two black lines) is depressed the heat output is 2kW.

When both switches are depressed the heat output is 3kW.

The MINI 800SE4.5 and MINI 1000SE6

Air curtains are supplied with 3 way switch boxes, or an optional wireless remote controller.



Figure 18 Mini 800/1000 box switches

The switch box houses 3 switches, and gives

the following functions:-

- Switch Fan On: fan only to provide circulation of room air.
- Switch I on: half heat
- Switch II on: full heat.

Remote control

The controller is a wireless thermostat giving high precision room temperature control. It is also a seven day programmer with up to six temperature settings per day. Each controller can control any number of heaters.

The controller should be positioned on a wall in the same room as the heater. Avoid mounting in the following places:-

- Draughty areas near windows and doors.
- Near the heater itself, any other heat sources or in direct sunlight.
- Where moisture is present.
- Where it could be hit by a door.



Figure 19 Wireless controller

Pairing the controller with heaters

This must be carried out otherwise the heater will not work.

- Ensure power to the heater is OFF.
- Turn power to the heater ON.
- Within 20 seconds, press and hold the 'MENU/MODE' and '+' buttons on the controller until the display shows 'PAIR'
- The heating will switch on. If the heating is set to off, after 4 seconds the heating will turn off.
- The heating is now ready to be used.

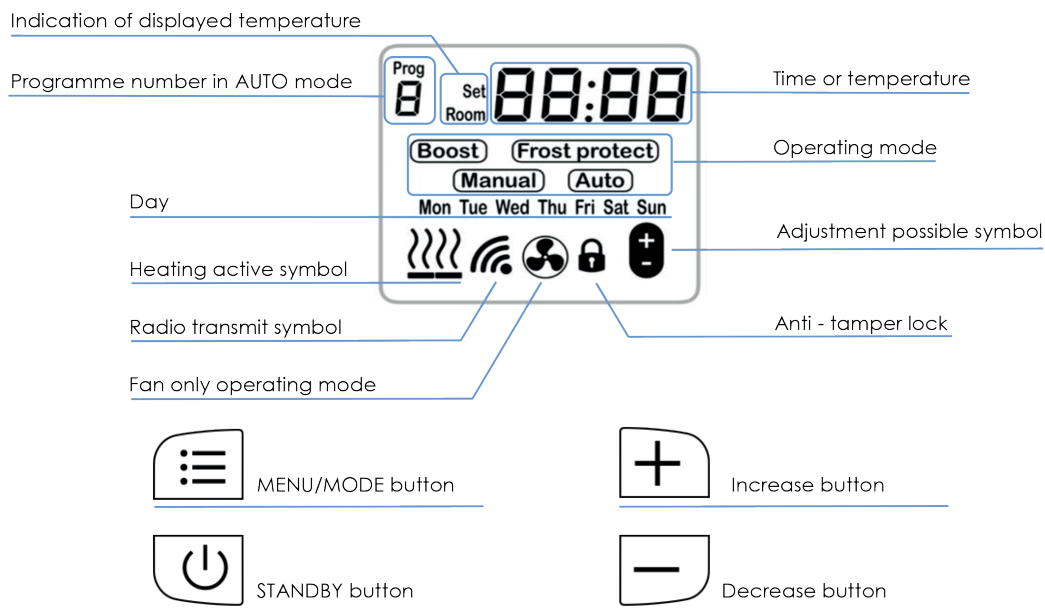


Figure 20 Controller layout

Basic Operation

The controller has five standard operating modes:-

- BOOST
- MANUAL
- FROST PROTECT
- AUTO
- FAN

Each mode can be selected by short pressing the MENU/MODE button to cycle through the options. The cycle sequence will always follow the list above.

The FAN mode is only available if there is no demand for heating. If the controller shows heating symbol the FAN mode isn't available. FAN mode only works with compatible heaters.

The controller also has a STANDBY MODE. To enter/exit this mode, press the standby button. In STANDBY MODE, the heating will not be activated and the display will show time and day.

To adjust temperature in any heating mode use the 'PLUS' or 'MINUS' buttons.

The controller has a battery backup which will keep the correct time and allows for the change of hour associated with British Summer Time.

The controller will also remember all time schedules and settings even if the power supply is interrupted.

Boost Mode

The boost feature increases the room temperature for 15 minutes. To amend the set temperature when in BOOST mode, use the + and - buttons to change the temperature. Once the temperature is set, you can leave the display to return to the main screen and the settings will be saved. After 15 minutes, the controller will return to the previous operating mode.

Manual Mode

In MANUAL mode, the heater maintains a chosen set temperature between 15°C and 35°C. To amend the set temperature when in MANUAL mode, use the + and - buttons. Once the temperature is set, you can leave the display to return to the main screen and the settings will be saved. When the room temperature reaches the set temperature, the heating will be deactivated.

Frost Protect Mode

In FROST PROTECT mode, the heater maintains a chosen set temperature between 4°C and 15°C. To amend the set temperature when in FROST PROTECT mode, use the + and - buttons. Once the temperature is set, you can leave the

display to return to the main screen and the settings will be saved.

Auto Mode

In this mode, the heater will follow the week's time / temperature program. The temperature can be temporarily overridden in AUTO mode by using the + and - buttons to set the new temperature. The new set temperature will be then maintained until the next program step.

Fan Mode

The FAN mode is only available if there is no demand for heating. If the controller shows the heating symbol the FAN mode isn't available. FAN mode only works with compatible heaters.

Heat Symbol

Every time there is a demand for heat, the display will show the heat icon. The symbols shown below are used to represent full heat and half heat. The half heat only works with 'RX' heaters. The controller will set heating to half heat automatically when the room is almost at the required temperature. This will stop temperature overshooting.

Key Locking

Press and hold the + and - buttons together for 5 seconds. The display will show the symbol. Repeat the step to unlock.

Open Door / Window Detection

Ensuring you don't waste energy by heating the outside world, the heater is equipped with optional open / closed window detection. The heater recognises sudden drops in temperature when a window or a door is opened and turns the heating off.

When the window is closed, the heater will automatically detect a temperature rise, and switch itself back on. Once enabled in the setup menu, the open window detection is fully automatic and does not require any human intervention to be activated. When open window detection has been triggered, the heat symbol will flash on/off as shown above. The system has been factory set to default time and temperature values. If necessary, all values can be adjusted. When the heating is on, the open

window detection sensor will automatically switch the heater off when it detects a fall in temperature of 2°C in less than 10 minutes (the temperature can be changed in menu 8 and time in menu 7). If a temperature rise of 2°C in less than 30 seconds is detected, the heater will switch itself back on (the temperature can be changed in menu A and the time in menu 9).

Time and Day Setting

The controller is factory set with the correct time and day. It has an internal battery back up that can remember the settings. It will automatically change the clock to adjust the British summer time.

Should you need to alter the time, see "setup menu" below.

Setup Menu

1. Press and hold 'MENU' and '-' together for 5 seconds
2. The display will enter the setup menu
3. Use the '+' and '-' buttons to change a value.
4. Use 'MENU' to scroll between the settings
5. Use 'STANDBY' to exit the setup menu.

The setup menu gives access to the following settings:-

1 - temperature calibration. The temperature reading is factory calibrated but if for any reason it needs adjusting (better accuracy required, to suit particular position in the room etc.), the reading can be recalibrated in 0.5 degree steps.

2 - Celsius / Fahrenheit selection

3 - adjust fan speed

4 - set minimum temperature

5 - set maximum temperature

6 - enable / disable open window detection

7 - open window detection time

8 - temperature drop in open window detection time

9 - closed window detection time

A - temperature rise in closed window detection time

B - program mode select. Choose between a 7-day, 5-day 2-day or a 24 hour timer.

C - select operating mode. 1 = temperature control 2 = manual control 3 = local temperature control

D - time and date setting. The year is shown first, use + and - to change, then press menu to change date and time.

E - backlight setting. If this is OFF the backlight will turn off after 15 seconds. The display must be activated before using the controls. If this is ON the back light will be permanently on when the heater is active.

Setting the Automatic Program Schedule

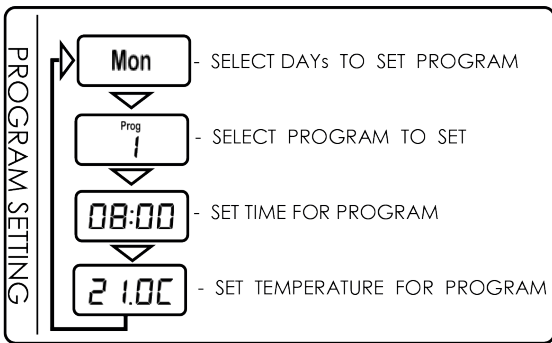


Figure 21 program setting

The timer is set to 5 days and 2 days as default. This section provides an example of how to set the program for Monday to Friday. The example will program the timer to maintain 21°C from 08:00 until 16:00. It will maintain 4°C from 16:00 onwards. It does this by setting the programs as follows;

Prog 1 - Set to 08:00 and 21°C

Prog 2 - Set to 16:00 and 4°C

Prog 3, 4, 5, 6 - Set to inactive

The steps to program this are shown below

Step 1 - Heater must be ON. Press and hold the MENU button. Monday to Friday should flash.

Step 2 - Press the MENU button. Prog 1 in the top left of the display should flash. This represents the program number. Each day has 6 programs.

Step 3 - Press the MENU button. The time should flash. Use the + and - buttons to set the time you want the heating to switch on.

Step 4 - Press the MENU button. The temperature should flash. Use the + and - buttons to set the temperature you want to maintain.

Step 5 - Press the MENU button. Monday should flash again.

Step 6 - Press the MENU button. Prog 1 in the top left of the display should flash. Use the + button to increment this to Prog 2. (Note: you can cycle between the different programs using the + and - buttons)

Step 7 - Press the MENU button. The time should flash. Use the + and - buttons to select the time you want the heating to switch off.

Step 8 - Press the MENU button. The temperature should flash. Use the + and - buttons to select a frost protection temperature.

Step 9 - Repeat these steps for programs 3-6 if additional time periods are required. Any programs not being utilized must be deactivated. To do this, simply select the program in question as per step 6 and press the STANDBY button. The time should change to dashes. To reactivate the program, simply press the STANDBY button again.

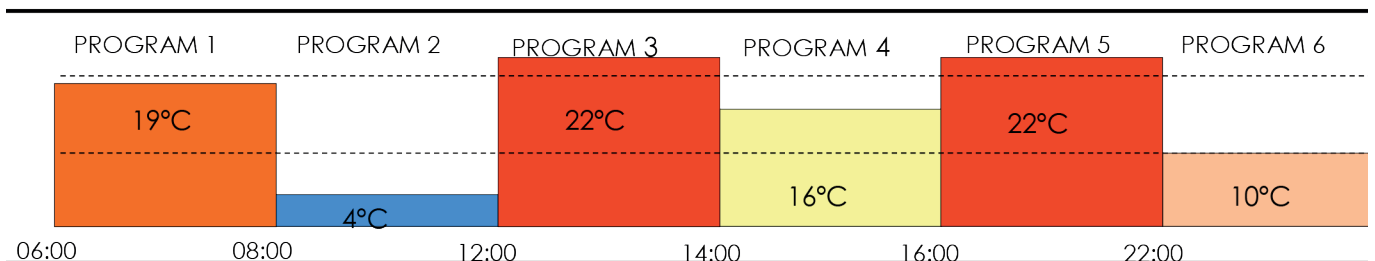


Figure 22 program example

Auto Mode

The controller has a 7-day, 5-day + 2-day and a 24 hour timer available. These can be chosen in the setup menu. Up to 6 programming steps are available for each day. In the programming you can set a start time and a temperature for each program.

1. Press and hold MENU for 5 seconds to enter the program settings.
2. The day will flash. Use + and - to navigate day. Press MENU to select day.
3. PROG 1 will flash. Use + and - to navigate program. Press MENU to select program.
4. The time will flash. Use + and - to select time. Press MENU to set time.
5. The temperature will flash. Use + and - to change temperature. Press MENU to set temperature.

Setting Program Inactive

If you do not require the use of all 6 programs they can be deactivated. When in programming mode select the program you want to make inactive and press the STANDBY button. To activate the program again, press the STANDBY button.

Copy Day Function

If you require the same set of programs throughout the week, a 24 hour timer is available. This will use the same program every day. A 5-day + 2-day timer is also available. This will use the same programs Monday-Friday, and separate programs Saturday and Sunday. These modes are enabled in the setup menu, as explained in the "setup menu" section.

When the timer is set in setup menu as 7 day, it is possible to copy a program from one day to another.

To do this, follow the steps below;

Step 1 - Press and hold MENU for 5 seconds to enter the program setting.

Step 2 - Press and hold STANDBY for 5 seconds to enter the copy day setting.

Step 3 - Use the MENU button to select the day to copy the programs from. 1= Monday, 2 =

Tuesday and so on.

Step 4 - Use the + and - buttons to select the day to copy the programs to.

Step 5 - Press the STANDBY button to copy the programs. The 'TO' will flash to confirm the programs have been copied.

Manual Control Mode

Manual control mode allows the heat and fan settings to be selected manually regardless of the room temperature.

To operate manual control mode, activate the display and press the MENU/MODE button. The fan speed can now be set using the + and - buttons. Press the MENU/MODE button again. The heat setting can now be set using the + and - buttons.

Manual control mode has 3 fan speeds and 3 heat settings available, it should be noted that the heater only has 2 fan settings.

Refer to section 'set-up menu' for information on how to access manual control mode.

Servicing & Maintenance

Maintenance



ALWAYS ENSURE THAT THE MAIN ELECTRICITY SUPPLY IS SWITCHED OFF BEFORE COMMENCING ANY MAINTENANCE ON THIS HEATER.

To obtain the best results from the heater, it is essential to avoid the accumulation of dust and dirt within the unit on the air inlet and discharge grilles.

To obtain the best results from the heater, it is essential to avoid the accumulation of dust and dirt within the unit, especially on the air inlet and discharge grilles.

For this reason regular cleaning is necessary, paying particular attention to the removal of dirt build up on the rotor blades. Cleaning of the fan is best carried out with a soft brush.

A single drop of light oil should be applied to the motor bearing from time to time.

The product should be serviced annually. Servicing shall be undertaken by a competent person.

General

If the air curtain does not operate after switching on, then a suitably competent service engineer should be called to identify the nature of the fault.

All Air Curtains are fitted thermal cut-outs and motor thermal protection.

Other faults in relation to the element, motor and wiring should be identified using conventional fault finding techniques.

In the event that electrical components are replaced, please ensure that electrical safety checks in accordance with the regulations in force in the country of use are undertaken.

Thermal and fault protection

The units are protected from overheating in the event of fan failure or an obstruction of the free airflow by thermal cut-outs.

If this happens, the thermal cut-outs effectively switch off the appliance by disconnecting power to the control circuit.

The appliance will not operate until the thermal cut-outs are manually reset. This should be done by a competent electrician.

The heaters are also protected by thermal fuses to prevent catastrophic failure. The thermal fuse will trip and disconnect power to the affected heater.

Thermal fuses are not resettable.

Fault Conditions

If the heater will not operate, disconnect it from the mains and arrange for a certified electrician to attend to investigate the reason.

Replacing Fan Heater Assembly

- Isolate the unit from the electric supply.
- Remove the outer cover after disconnecting from the swivel mounting bracket where fitted.
- Disconnect the internal wiring from the main terminal block and earth stud.
- Release the fixings and wiring that secure the fan assembly to the rear panel.
- Remove the four nuts and washers fixing the fan heater assembly to the back of the case.
- The fan heater assembly can now be eased forward and removed from the heater case.
- Fit replacement fan heater and re-assemble in reverse order.

To Replace A Switch

- Isolate the unit from the electric supply.
- Remove the top cover.
- Release the three fixings which secure the switch bracket to the right hand side of the main case.
- Remove the push-on connectors, noting their position.

- Remove by compressing the plastic retaining tabs, and lifting out the switch.
- Insert the new switch, refit and push on connectors in the correct order, test and reassemble.

Cleaning the Controller

Clean the controller with a soft lint-free cloth. Avoid getting moisture on the buttons or openings. Do not use sprays, liquids or abrasives.

MINI 800SE4-5 & MINI 1000SE06 Only

To Replace The Fan Heater Assembly

- Isolate the unit from the electric supply.
- Remove the outer cover after disconnecting from the swivel mounting bracket where fitted.
- Disconnect the internal wiring from the main terminal block and earth stud.
- Release the fixings and wiring that secure the fan assembly to the rear panel.
- Fit replacement fan heater and reassemble in reverse order.
- Test product for correct operation.

To Replace A Switch In The Control

- Switch off the mains supply.
- Remove the switch box cover.
- Disconnect the wiring to the switch.
- Remove the appropriate fixing screw(s) and push out the switch.
- Fit the replacement switch, reconnect the wiring and replace the cover.

Fault finding

Protection (Thermal cut-out)

The units are protected from overheating in the event of fan failure or an obstruction of the free airflow, by auto resetting thermal cut outs. If this happens, the thermal cut outs switch off the appliance. The appliance will not operate until it has cooled down. If this fault re-occurs, refer to 'fault conditions' below.

NOTE: DO NOT COVER the air inlet or outlet grilles, at any time.

To reset the self hold cut-out

- The cut-out is reset by switching OFF mains power to the appliance.
- Allow the appliance to cool for 20 minutes.
- Switch ON the appliance. If the cut-out trips again, a qualified electrician should be consulted.

Fault Conditions

If the heater will not operate, disconnect it from the mains and arrange for a qualified electrician to attend and investigate the reason for the failure.

Spares

- It is essential when ordering spares or replacement parts to state the model number and the serial number on the rating plate fixed to the top of the unit.



This heater should not be installed where there is a Corrosive atmosphere.



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