



SCREENZONE

RECESSED AIR CURTAINS

RAC1306

RAC1309

RAC1312

RAC1509

RAC1512

RAC1514

RAC1516

INSTALLATION AND OPERATING MANUAL

All electrical appliances produced by the Company are guaranteed for one year against faulty materials or workmanship. This applies only if the appliance has been used for purposes in accordance with the instructions provided and has not been connected to an unsuitable electricity supply, or subject to misuse, neglect, damage or modified or repaired by any person not authorised by us. This guarantee is offered to you as an extra benefit and does not affect your legal rights.

The correct electricity supply voltage is shown on the rating label attached to the appliance.

Reasonable care has been taken to ensure that this guide is accurate at the time of printing. In the interest of progress the Company reserve the right to vary specifications from time to time without notice.

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1. General Information

1.1 Warnings

All installations must be in accordance with the regulations. 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. To ensure continued and safe operation it is recommended that the appliance is serviced annually. The air curtain outlet/inlet grilles must not be obstructed during use. Any modifications made to the unit not approved by Consort will void manufacturer's warranty and potentially create a hazard. The appliance is NOT intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience or knowledge unless they have been given instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance. Parts of the air curtain can become very hot when in operation and cause burns. The air curtain is not equipped with a room thermostat and should not be used in small rooms so as to avoid overheating.

1.2 Health and Safety

Please read this instructions thoroughly before installing the appliance. Sole liability rests with the installer to ensure that all site safety procedures are adhered to during installation. Sole liability rests with the installer to ensure that protective safety wear such as hand, eye, ear and head protection is used during installation of the product. Ensure that all anchoring points are suitable for the weight of the appliance.

1.3 Electrical Supply

This air curtain must be permanently connected to the electricity supply via an isolated switch. It must provide all-pole disconnection and have a 3mm gap on each pole.



THERE ARE NO EXCEPTIONS.



All units must be wired in accordance with I.E.E. regulations for the Electrical Equipment of Buildings.

BMS control, time switches and door interlocks can be installed at the discretion and responsibility of the installer.

1.4 Location

All units should be installed directly over the door opening. It is recommended that the air curtain is installed on the inside of the building.

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 cover the entire door width.

Units can be mounted adjacent to each other to cover the full door opening across wider entrances.

1.5 Clearance Distance

It is recommended that a minimum clearance of 50mm is allowed around the case. The clearance allows for cable entry and prevents combustible surfaces from overheating.

The minimum mounting height (floor to grille) is 2m. The maximum mounting height is 3.4m.

2. Introduction

2.1 Introduction

This instruction manual describes the ScreenZone Recessed range of air curtains. They are designed for discreet positioning above the doorways of retail or commercial premises up to 3.4m ceiling height.

The air curtains comprise multiple modular blower units 510mm or 615mm wide and with nominal maximum power output from 3kW to 8kW 3Ph 415V.

RAC1306 and RAC1309 can be internally modified to accept a single phase supply.

Models are available in 1.3m and 1.5m lengths, made up of 2 blower units. For wider doorways, up to 7 air curtains can be easily interconnected using CAT5/CAT6 RJ45 networking cable.

It is recommended that this control cable is run separately within its own trunking to avoid external interference.

The air curtain can be controlled by optional Touchscreen controller (not supplied with the air curtain), mechanical switches or BMS.



WARNING:

THIS AIR CURTAIN SHOULD NOT BE
INSTALLED WHERE THERE IS A
**CORROSIVE ATMOSPHERE OR
EXCESSIVE DUST.**

2.2 Mechanical switch Controller

Each air curtain is supplied with HE8408 mechanical switch. More details at section 5.5. This controller will provide 2 fan speed and 3 heat setting options.



2.3 Optional Colour Touchscreen Controller

Optional colour touch screen controller (not supplied with the air curtain) gives options for 8 fan and 8 heat settings can be mounted up to 50m from the air curtain. Optional BMS control, remote thermostats and door interlocks can be installed.

The electronic touch screen controller shown in the picture below allows the user to control either a single air curtain, or a network of up to 7 air curtains with the same settings.

The controller is designed to be mounted on a surface double gang back box, and is powered by the RJ45 connection.

The controller will not fit metal or dry lining back box.

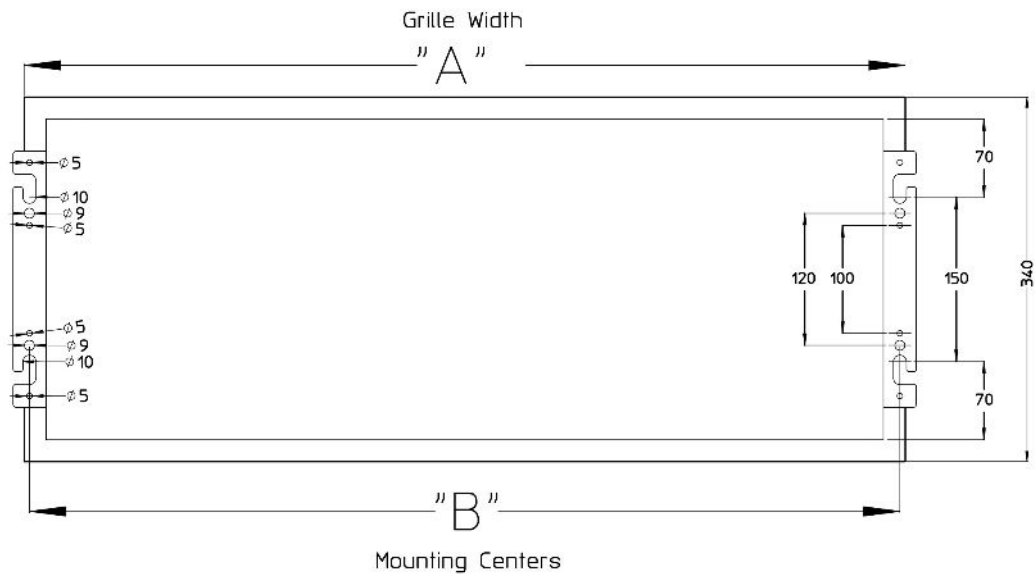
The cable length between the base unit and the controller can be up to 50 metres.



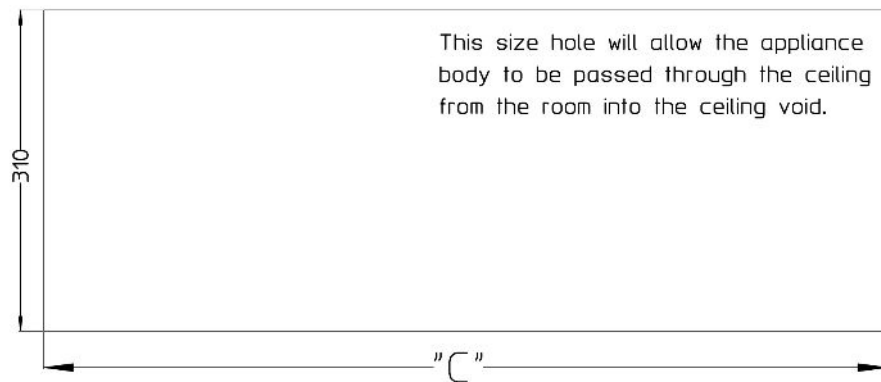
3. Dimensions & Fixing locations

3.1 Dimensions

Product Dimensions

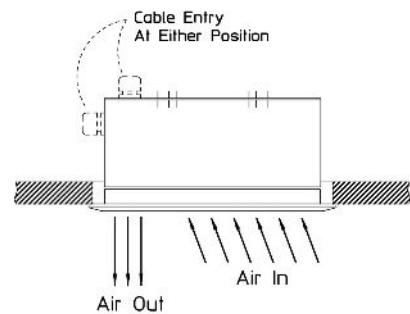
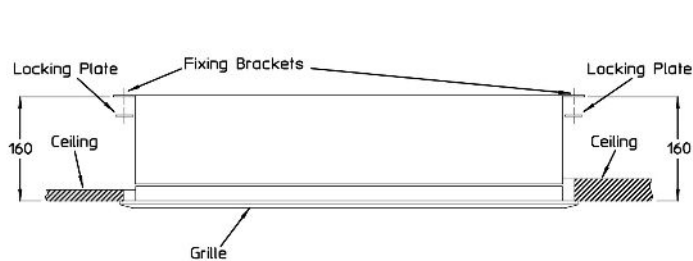


Ceiling Cutout Dimensions



	RAC13	RAC15
A	1350	1550
B	1340	1540
C	1330	1530

*ALL DIMENSIONS ARE IN MM



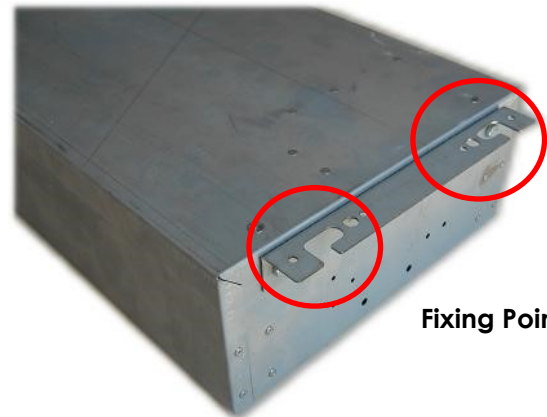
4. Installation Details

4.1 Mounting

All units should be installed horizontally directly over the door opening. Before fitting or wiring the air curtain, ensure the outlet is facing the doorway.

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 must cover the entire door width.

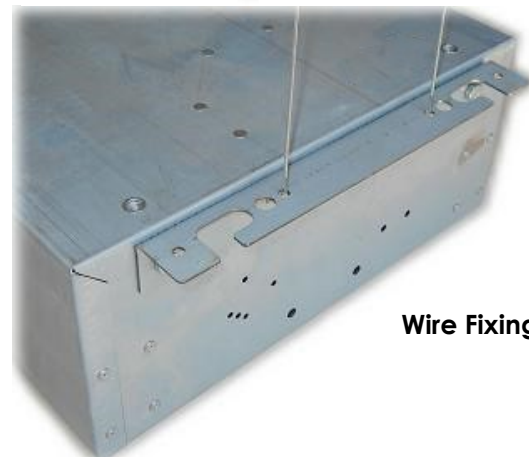
Units can be mounted adjacent to each other to cover the full door opening across wider entrances.



Fixing Points

4.2 Electrical Supply Entry

The cable entry is located in the middle of the heater. The top of the heater has 2 x 20mm holes and the side of the heater has 2 x 20mm holes. This should suit most installations.



Wire Fixing

4.3 Installation

It is the sole responsibility of the installer to ensure that the points of attachment to the building are sound. Consultation with the consultant/architect or owner of the building is recommended to ensure that a sound, mechanically stable installation is achieved.

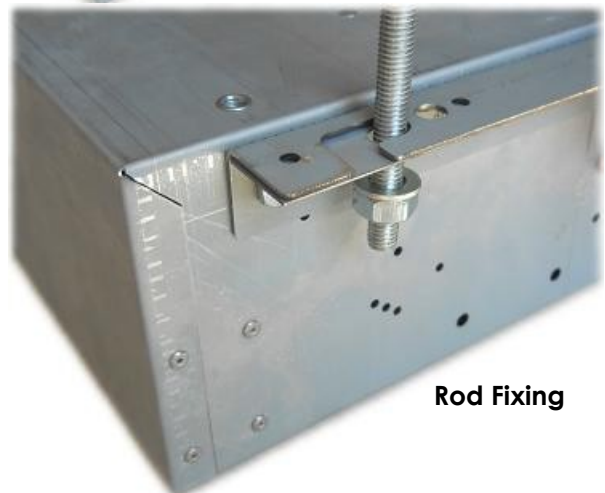
All attachments must be capable of supporting the weight of the product.

Each unit has 2 fixing brackets from which it is suspended. The brackets may be removed to assist in passing the air curtain through the recess then reattached when in-situ.

Either drop rods or catenary wire can be used to fasten the air curtain to the ceiling support structure.

The height between the ceiling face and the bottom of the air curtain case needs to be adjusted to circa 20mm to enable the grille assembly to fit flush with the ceiling. Adjust accordingly.

After fitting the product in the ceiling recess and adjusting the height to ensure that the grille sits flush to the ceiling (when re-fitted) take the grille assembly and refit using the screws removed.



Rod Fixing

4. Installation Details

4.4 Grille Removal

Step 2 - Loosen all screws on air inlet side. They are in keyhole slots and do not need to be fully removed.

Step 3 - An **EARTH** lead is connected to the lid from the unit body via a push-on connection at grille. When replacing the grille onto the unit ensure the **EARTH** lead is re-connected.

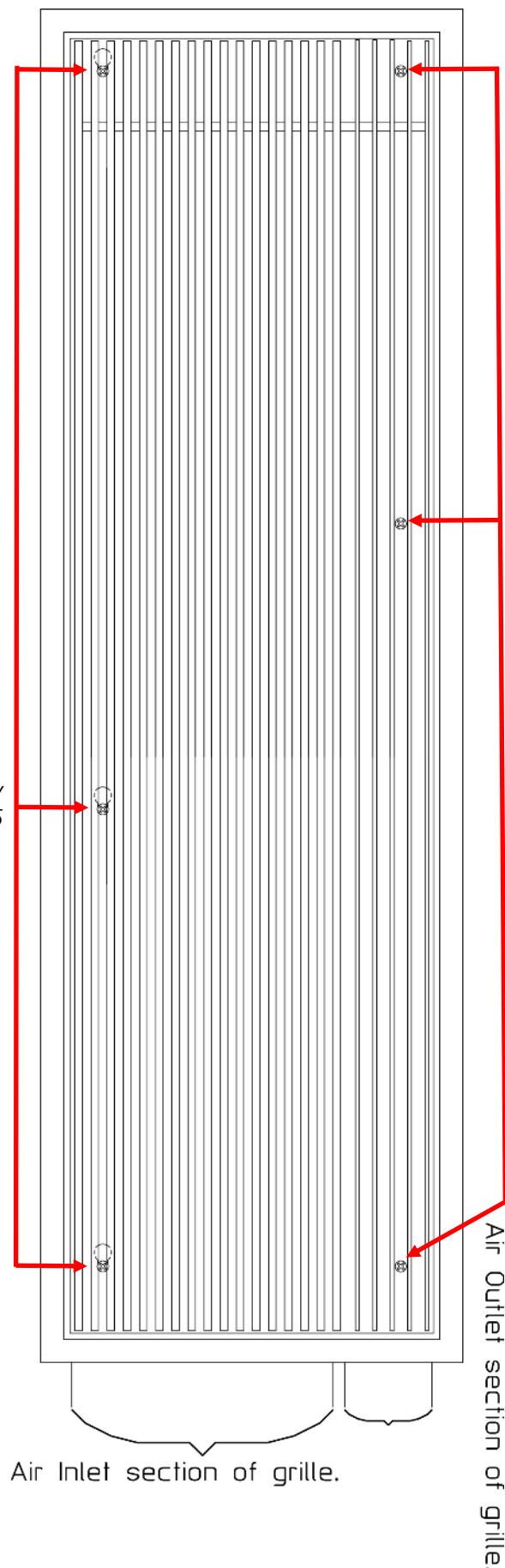
Step 1 - Remove all screws on air outlet side

* this screw is only on RAC15

* this screw is only on RAC15

Step 4 - Slide grille until the screw can pass through the larger section of the key hole slot.

Slide grille this way



5. Technical Specifications

3 Phase appliances

5.1 General Data			RAC1306	RAC1309	RAC1312
Maximum height		M	3.4		
Door width		M	1.3		
Heat medium			Electric heating element		
Heat output		kW	6	9	12
Fan type			2x EC Crossflow 100mm		
Fan control			Electronic fan speed control		
Heat switching			Solid state electronic control		
Weight		kg	19.5		
Electrical Data					
Supply voltage			415V 3ph 50Hz		
Total load		kW	6	9	12
Max current per phase		A/pha	8.3	13	16.5
Max motor power		W	2 x 48		
External fuse size amps		A/pha	10	16	20
Controller			Remote switch or Touch colour screen controller		
Controller wiring			4 core 1mm² or CAT5 / CAT6 with RJ45 connectors		
Cable terminal size			10mm ²Max		
Mains terminal block position			Centre of base unit. Terminals N; L1; L2 & L3		
Control terminal position			Centre of base unit		
Air Data					
Air volume	Max speed	m³/h	1600		
Air velocity	Max speed @ 0M	m/s	6.8		
	Max speed @ 1M	m/s	4.2		
	Max speed @ 2M	m/s	3		
	Max speed @ 3M	m/s	2		
Max Delta T @ 10°C	Auto speed	°C	19	29	39
Noise level @ 3m	Max speed	dBA	60		
	Min speed	dBA	50		
Dimensional Data					
Length		mm	1350		
Width		mm	340		
Height		mm	177		

Single Phase appliances after internal modification

5.1 General Data			RAC1306	RAC1309
Electrical Data				
Supply voltage			240V 50Hz	
Total load	kW		6	9
Max current	A		26	39
Max motor power	W		2 x 48	
External fuse size amps	A		32	40

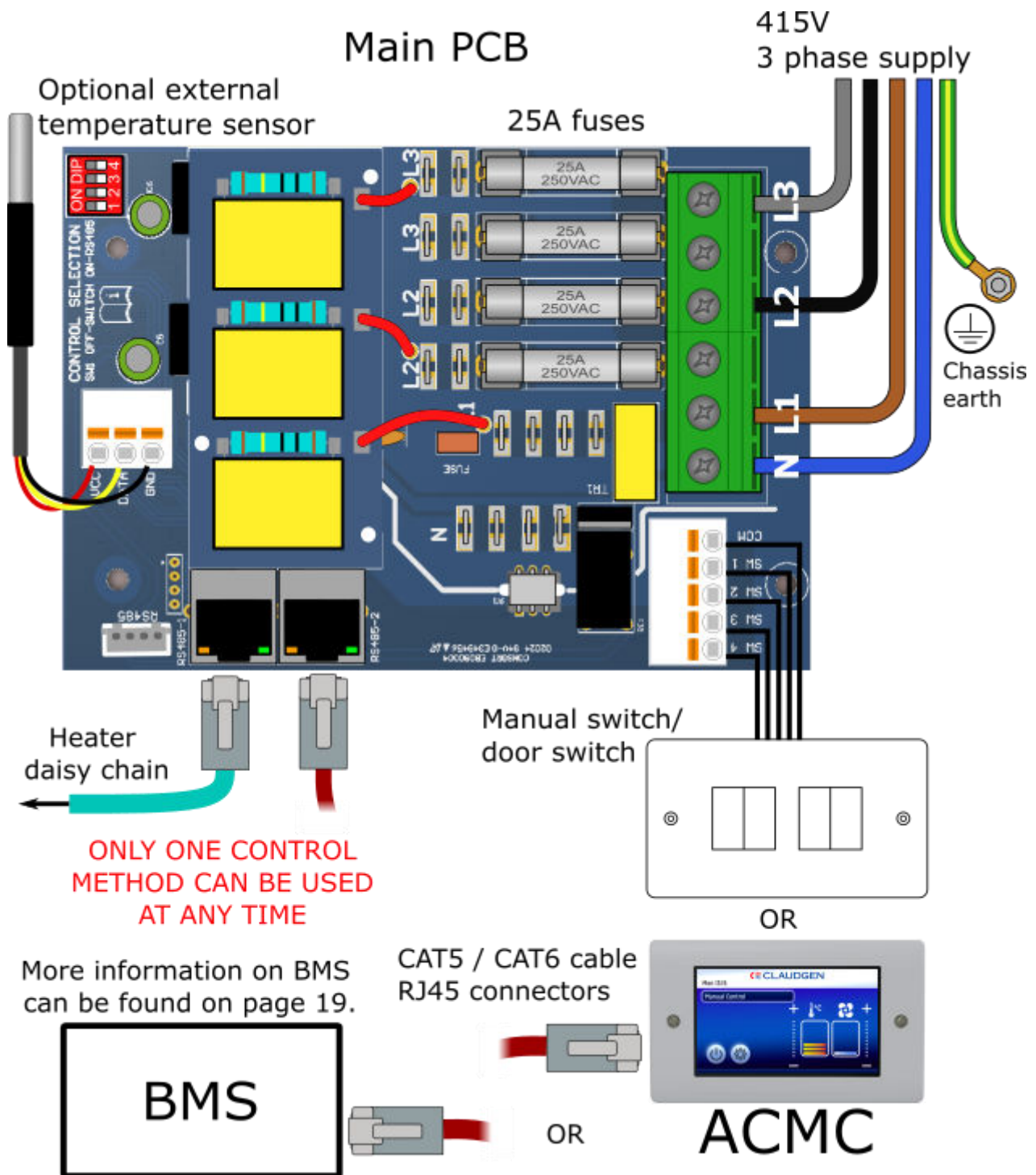
5. Technical Specifications

3 Phase appliances

5.1 General Data			RAC1509	RAC1512	RAC1514	RAC1516
Maximum height	M	3.4				
Door width	M	1.5				
Heat medium		Electric heating element				
Heat output	kW	9	12	14	16	
Fan type		2x EC Crossflow 100mm				
Fan control		Electronic fan speed control				
Switching type		Solid state electronic control				
Weight	kg	21				
Electrical Data						
Supply voltage		415V 3ph 50Hz				
Total load	kW	9	12	14	16	
Max current per phase	A/pha	13	16.5	19.5	22.5	
Max motor power	W	2 x 48				
External fuse size amps	A/pha	16	20	25	25	
Controller		Remote switch or Touchscreen colour controller				
Controller wiring		4 core 1mm² or CAT5 / CAT6 with RJ45 connectors				
Cable terminal size		10mm ²Max				
Mains terminal block position		Centre of base unit. Terminals N; L1; L2 & L3				
Control terminal position		Centre of base unit				
Air Data						
Air volume	Max speed	m³/h	1920			
Air velocity	Max speed @ 0M	m/s	6.8			
	Max speed @ 1M	m/s	4.2			
	Max speed @ 2M	m/s	3			
	Max speed @ 3M	m/s	2			
Max Delta T @ 10°C	Auto speed	°C	26	36	45	52
Noise level @ 3m	Max speed	dBA	60			
	Min speed	dBA	50			
Dimensional Data						
Length	mm	1550				
Width	mm	340				
Height	mm	177				

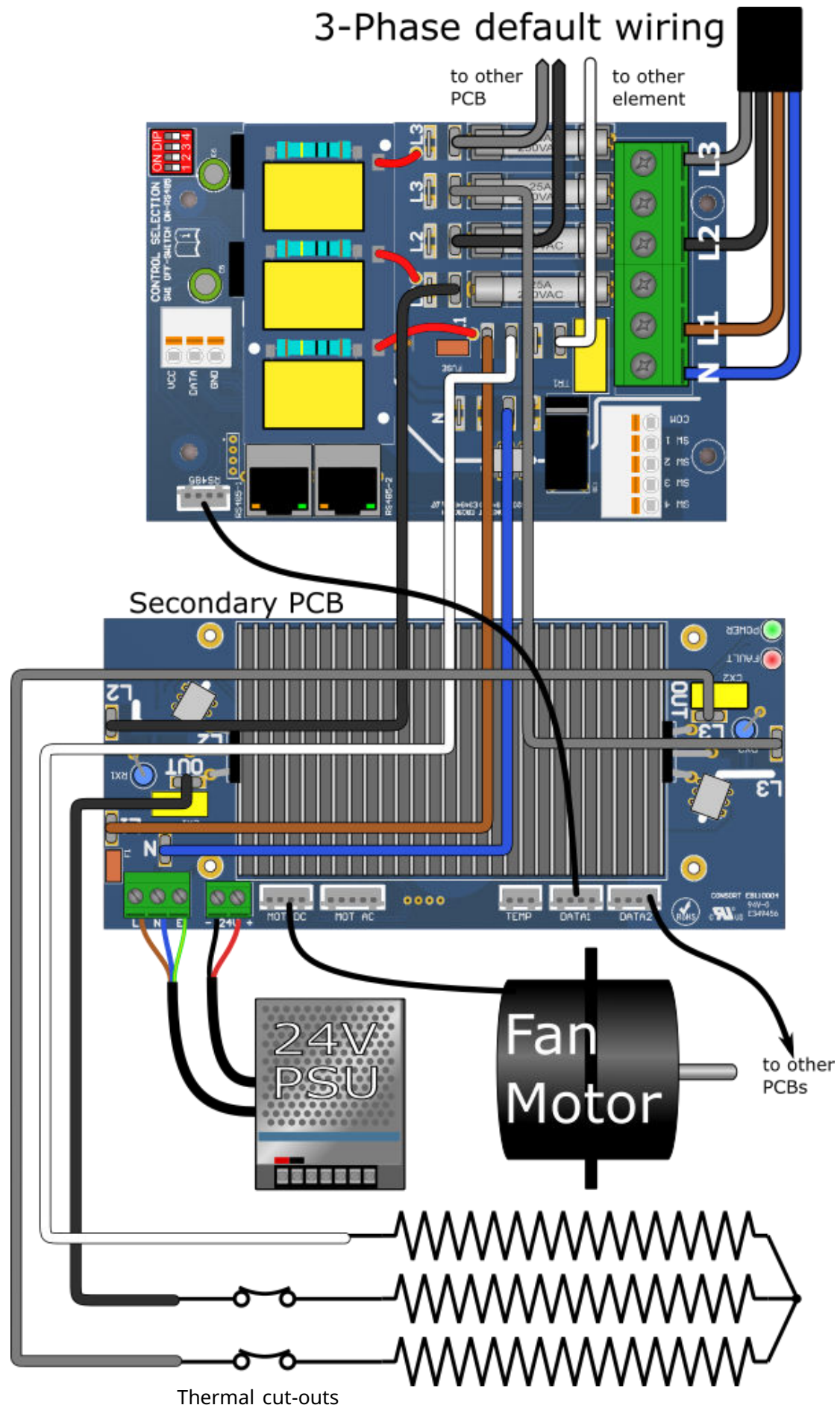
6. Wiring Details

6.1 Installer Wiring



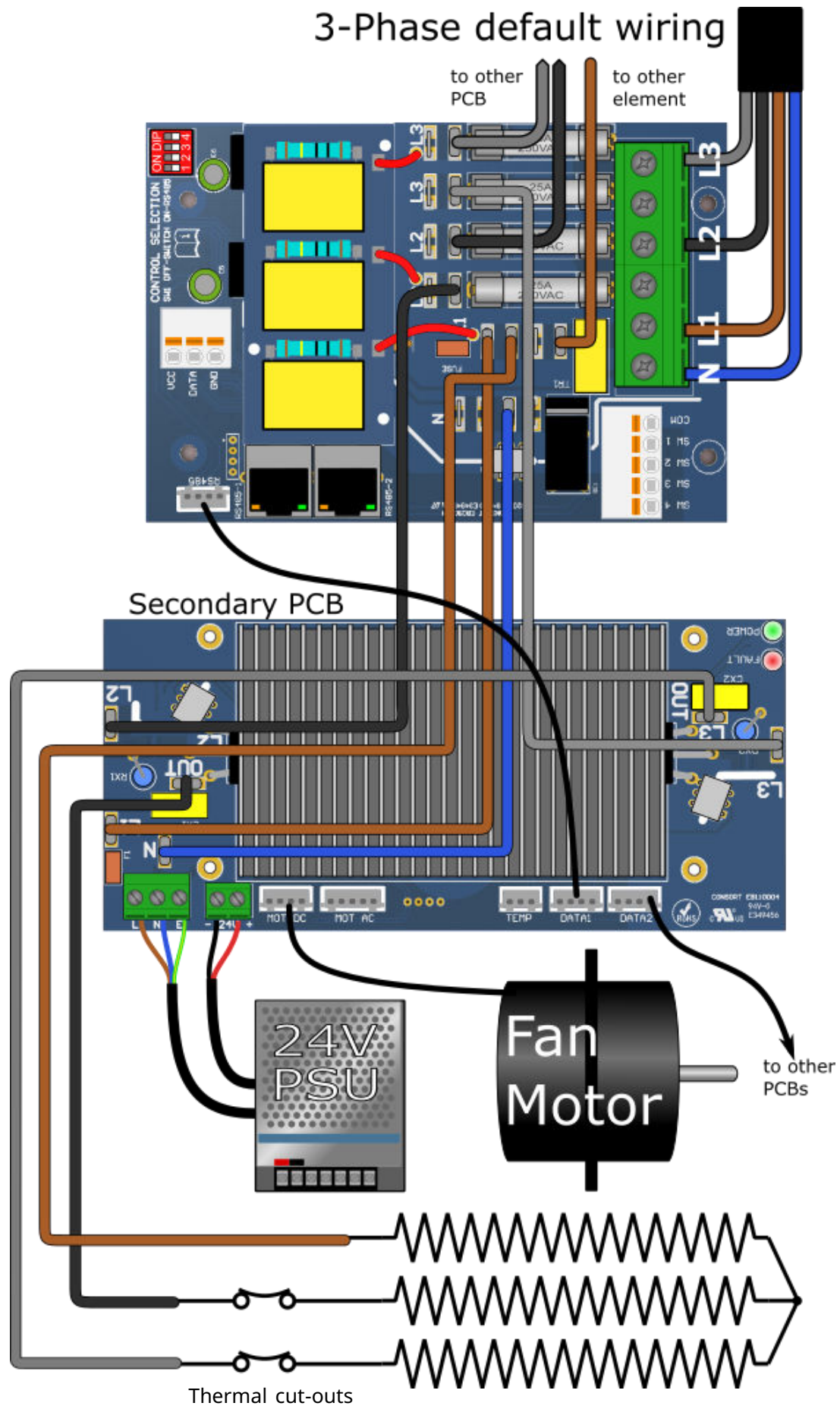
6. Wiring Details

6.2 Factory Wiring - RAC1306 & RAC1309



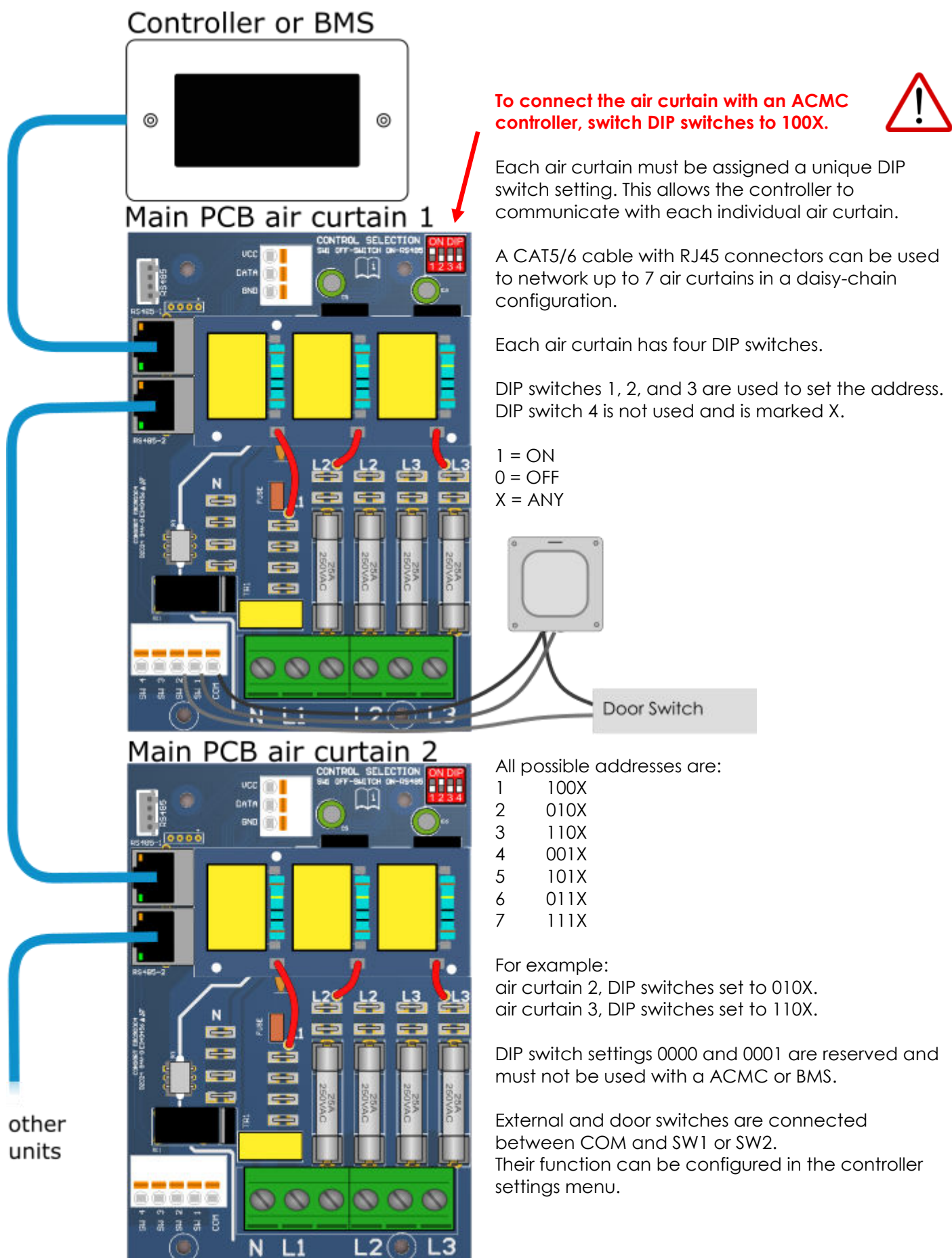
6. Wiring Details

6.3 Factory Wiring - RAC1312, RAC1509, RAC1512, RAC1514, RAC1516



6. Wiring Details

6.4 Network Wiring - Controller



6. Wiring Details

6.5 Network Wiring - Mechanical Switches

The air curtain can be controlled by mechanical switches.

To operate the air curtain by mechanical switches, the DIP switches on the main PCB need to be set to 000X.

The DIP switch 4 is used to select fan speed range.

For installation height of 2 - 3m, set the DIP switches to 0000.

For installation height of 3 - 4m, set the DIP switches to 0001.

1 = ON

0 = OFF

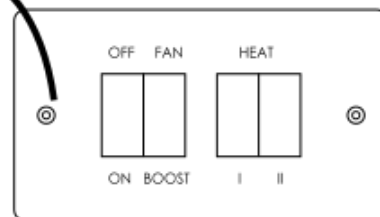
X = ANY

SW1 - on / off

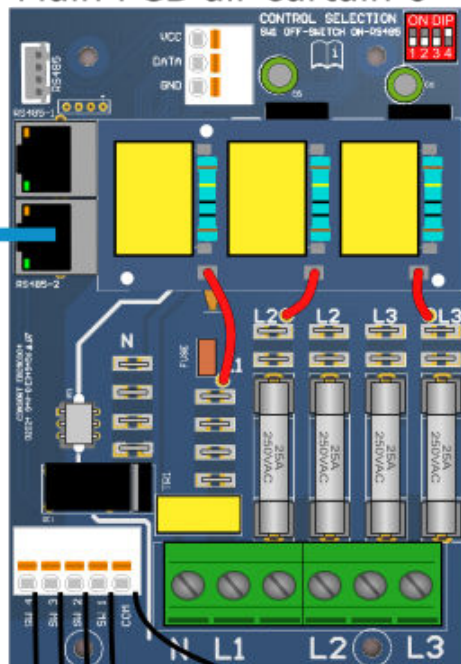
SW2 - low speed / high speed

SW3 - 1/3 heat output

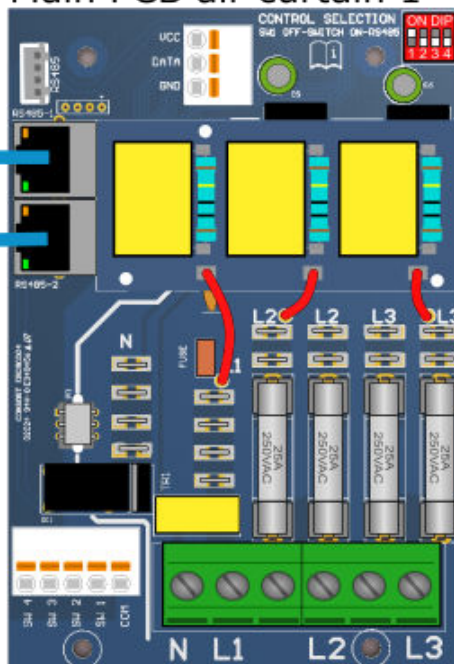
SW4 - 2/3 heat output



Main PCB air curtain 0



Main PCB air curtain 1



CAT5/6 cable with RJ45 connectors can be used to network up to 7 air curtains in a daisy-chain configuration.

The DIP switches on all daisy chained air curtains after the unit with mechanical switches must be set to unique DIP switch addresses.

All possible addresses are:

0	000X - unit with mechanical switches
1	100X
2	010X
3	110X
4	001X
5	101X
6	011X
7	111X

other units

7. Modification for use on single phase

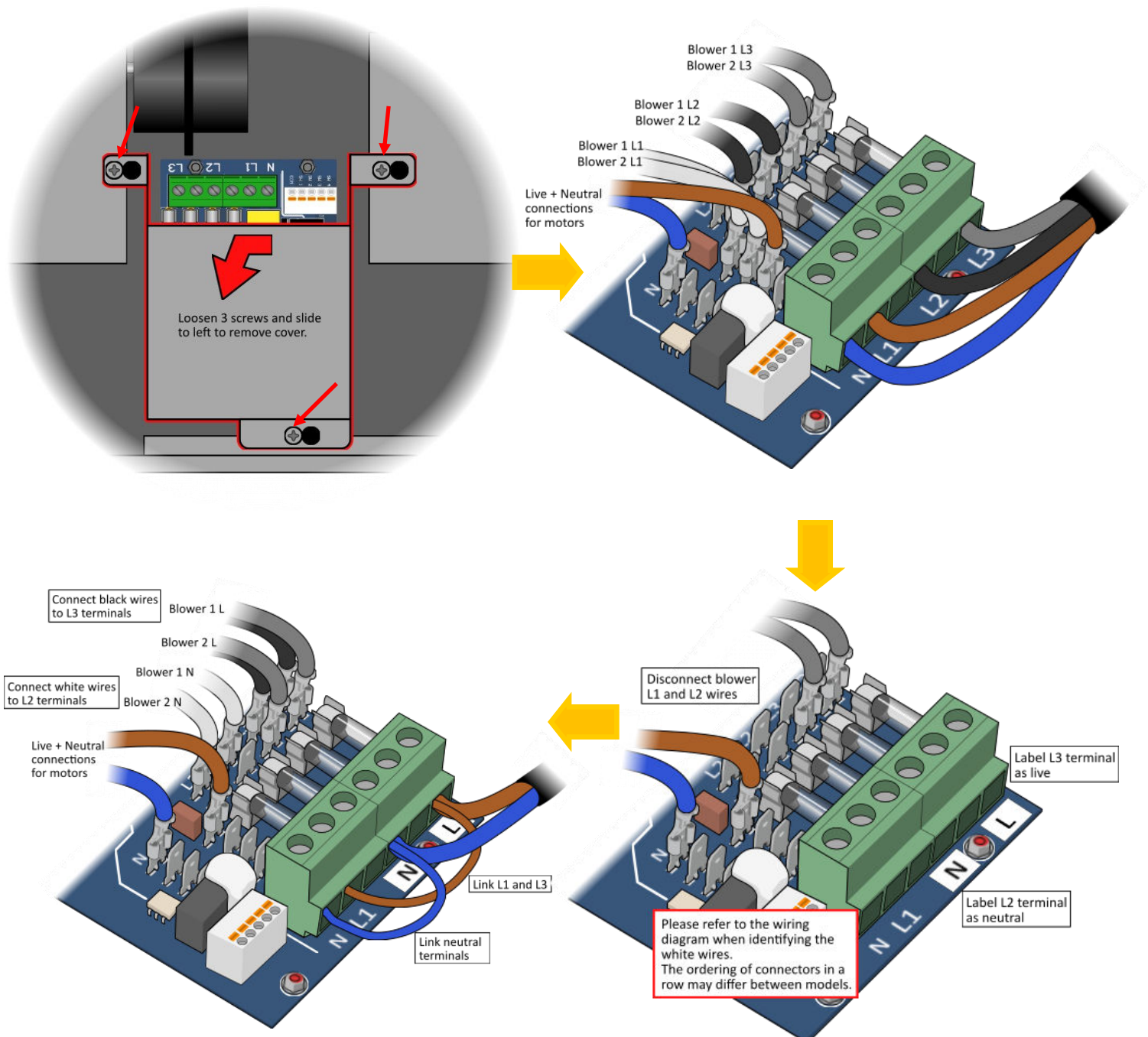
RAC1306 and RAC1309 are supplied as 3 phase only appliances. In order to use it with a single phase supply, the internal wiring has to be modified. The appliances are supplied with a single phase conversion kit. The pictures below describe how to change the internal wiring. After the internal wiring has been modified it is necessary to change labelling of the connector as shown on the picture below and also new rating label showing single phase supply must be used to cover the existing 3 phase operation rating label.



This has to be followed exactly.



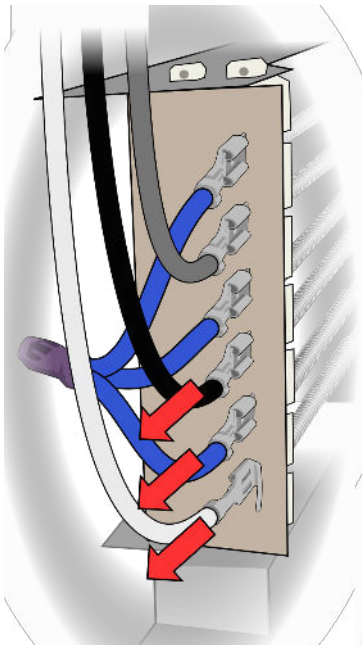
7.1 Internal Wiring modifications.



7. Modification for use on single phase

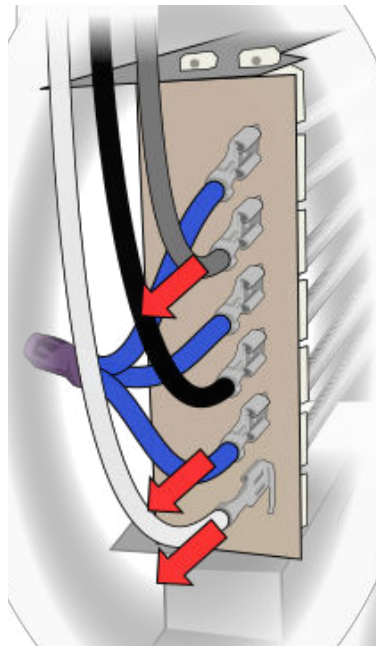
7.2 Modification of internal wiring of the heating element for single phase operation

Step L.1



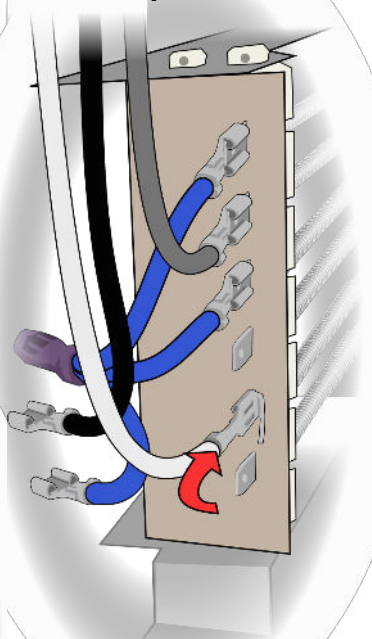
Left-Hand
Element

Step R.1

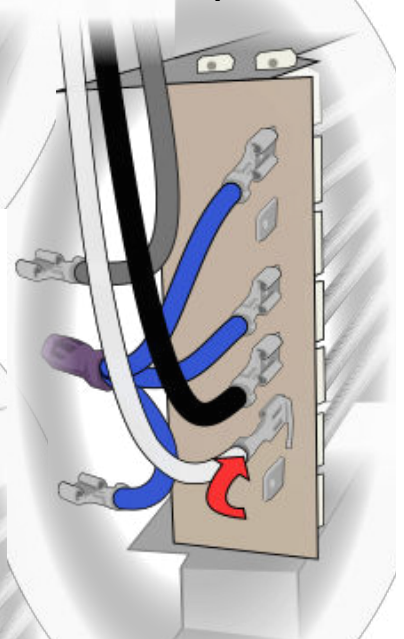


Right-Hand
Element

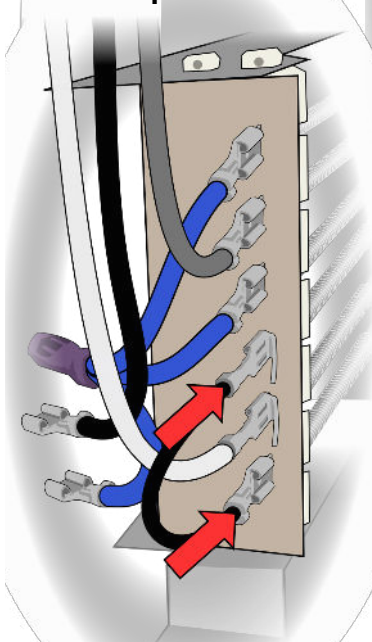
Step L.2



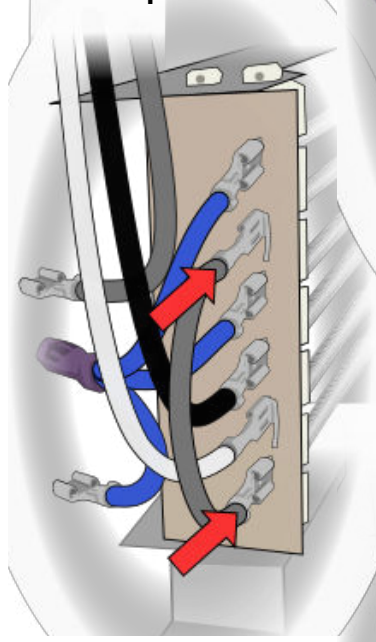
Step R.2



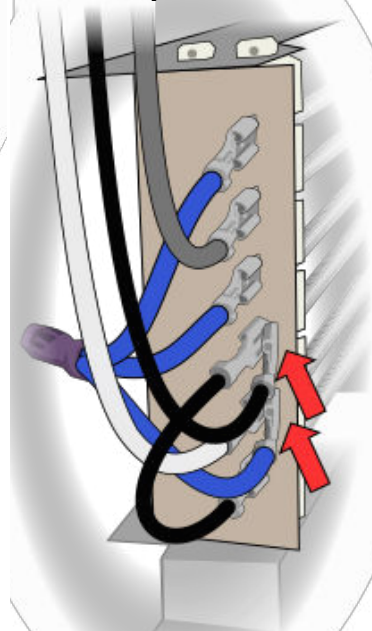
Step L.3



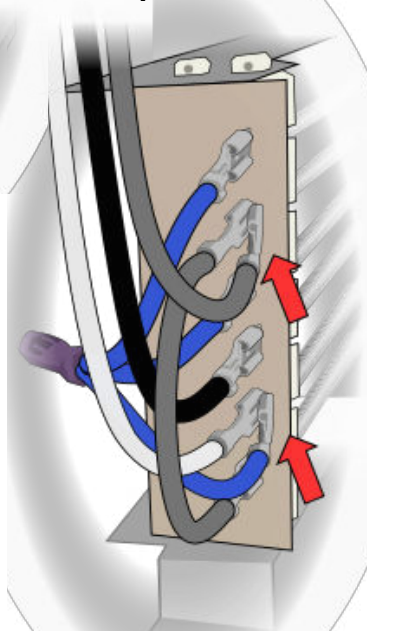
Step R.3



Step L.4

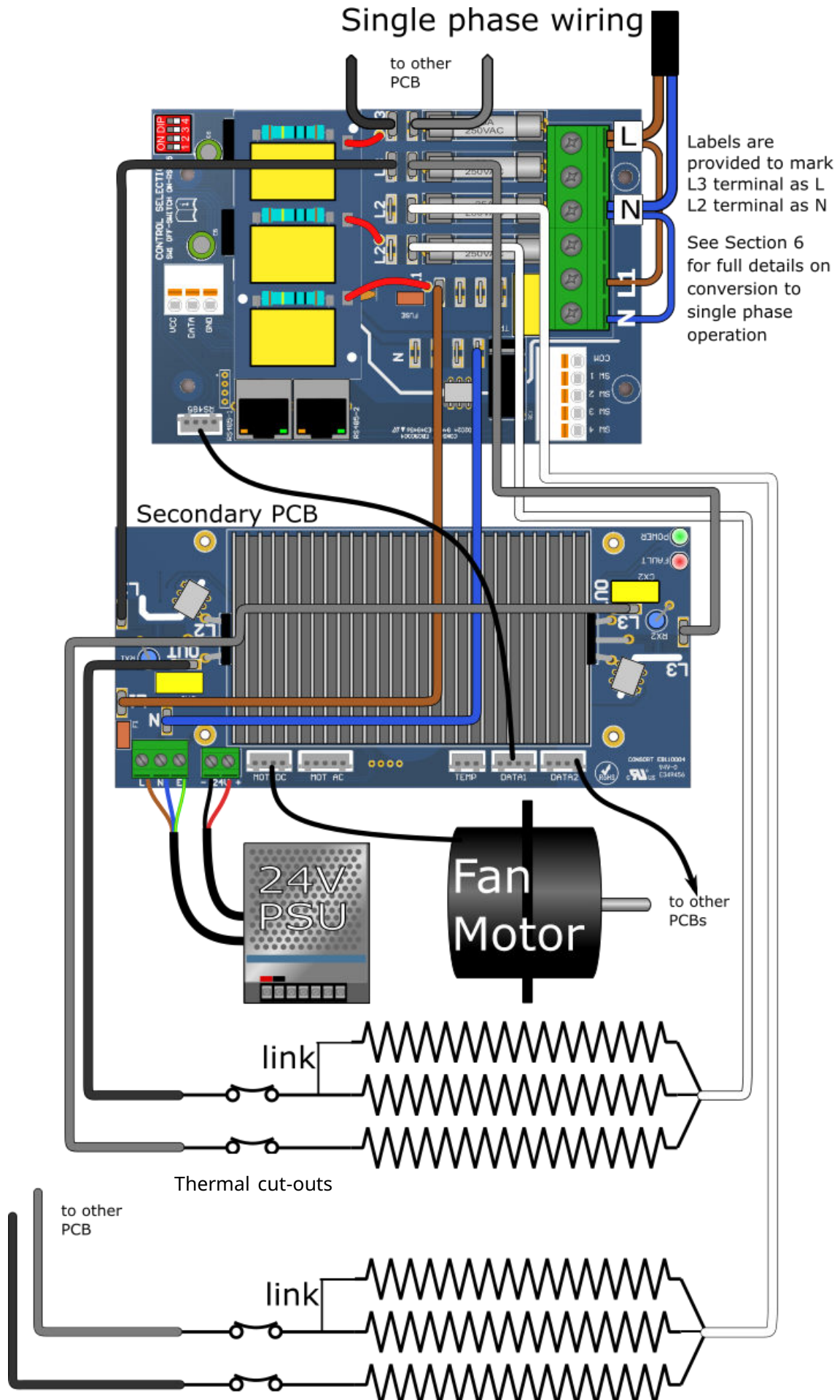


Step R.4



7. Modification for use on single phase

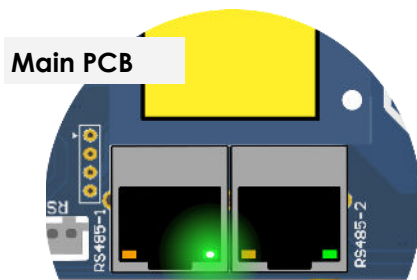
7.3 Modification for use on single phase (RAC1306 & RAC1309 only)



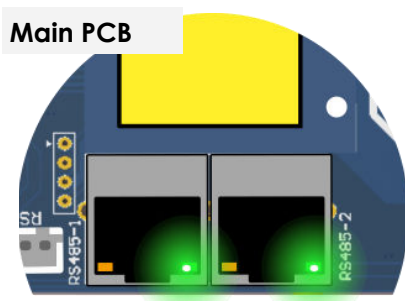
8. Fault detection and status lights

8.1 Fault detection

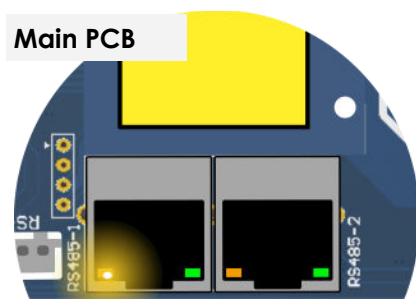
When the air curtains are powered up in standby mode, a green LED on the main board shows that the 12V power supply is working correctly:



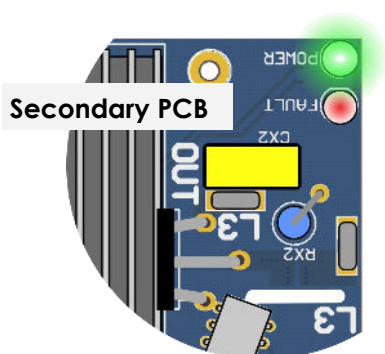
When heat or cold blow is demanded the secondary PCBs are powered. A second LED on the main PCB shows that the second 12V power supply is working correctly:



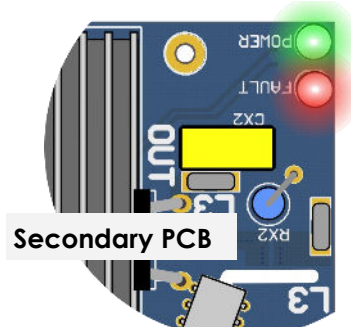
A fault with the auxiliary power is indicated by a flashing orange LED on the main PCB:



A green LED on the secondary PCBs shows that they are receiving 12V power:



The air curtain monitors the fan speed, power output and heatsink temperature. In the event of a fault the red LED on the secondary PCB flashes:



The red LED flashes a number of times and then pauses. The number of flashes indicates the fault.

Number of flashes	Fault
1	Power measurement when triacs switched off: Response: Auto run motor
2	Motor fault Response: Disable heating
3	Triac heatsink overheat: Response: Reduce heating
4	Low power measurement when triacs switched on: Causes: Thermal cut-out operated, blown fuse, missing phase

8.2 Overheat protection reset

The air curtain is equipped with electronic overheat protection and also over-temperature cut-outs. There are four cut-outs on each air curtain. They are located just in front of the element. In the unlikely event of electronic failure, the mechanical cut-outs will switch off power to the heating element. In order to reset cut-outs, isolate the air curtain from power, allow the air curtain to cool, remove the cover and carry out inspection. The cut-outs will reset automatically when unit has been isolated and cooled down.



THE CAUSE OF CUT-OUTS OPERATING SHOULD BE INVESTIGATED BEFORE RESETTING.



9. BMS Connection MODBUS Protocol

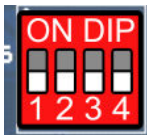
9.1 BMS Connection

The air curtain is compatible with BMS systems using MODBUS protocol. The connection to BMS system can be made using one of the RJ45 connectors. Only one means of control can be used at a time. If BMS is used to control the air curtain, the colour screen controller must not be used.

The BMS can control fan speed and heat output and also read and report the air curtain status. Speed can be set in the range of 600 - 1700RPM in 1RPM steps. If the speed is set below 600 RPM, the heating element is automatically disabled. Care has to be taken when selecting speed. The fan speed should be always correct for the selected heat output. If the speed is too low, the air curtain can overheat.

Heat output can be set in the range of 0 - 100% in 1% steps.

9.2 MODBUS Protocol



The DIP switches 1, 2 and 3 are used to configure each air curtain with a unique address.

RJ45 cable can be used to network up to 7 air curtains in a daisy-chain configuration.

DIP switch setting 000X is reserved for when a controller or BMS is not used.

All possible addresses:

1	100X
2	010X
3	110X
4	001X
5	101X
6	011X
7	111X

RS485 serial half-duplex interface
MODBUS RTU
9600 baud
8 bits
1 start bit
no parity + 2 stop bits
'mark' parity + 1 stop bit

Supported MODBUS function codes:

0x03 read multiple input registers
0x04 read multiple holding registers
0x06 write single holding register
0x10 write multiple holding registers

16 Bit Input Registers:

- 1 Status
- 2 Temp 1
- 3 Temp 2
- 4 Temp Heatsink
- 5 Temp External
- 6 External Switches

Temperatures are formatted as 16 bit signed integers. Units are sixteenths of a degrees Celsius, as used by DS18B20 temperature sensors. The hex value 0xF000 is used to denote an invalid reading.

The status register uses bits to indicate faults:

- Bit 0 - overheat
- Bit 1 - heatsink overheat
- Bit 2 - temp sensor 1
- Bit 3 - temp sensor 2
- Bit 4 - heatsink temp sensor
- Bit 5 - remote temp sensor
- Bit 6 - L2 on current low
- Bit 7 - L2 off current high
- Bit 8 - L3 on current low
- Bit 9 - L3 off current high
- Bit 10 - motor PSU
- Bit 11 - motor
- Bit 12 - MCU
- Bit 13 - connection
- Bit 14 - 12V auxiliary power
- Bit 15 - main PCB relay

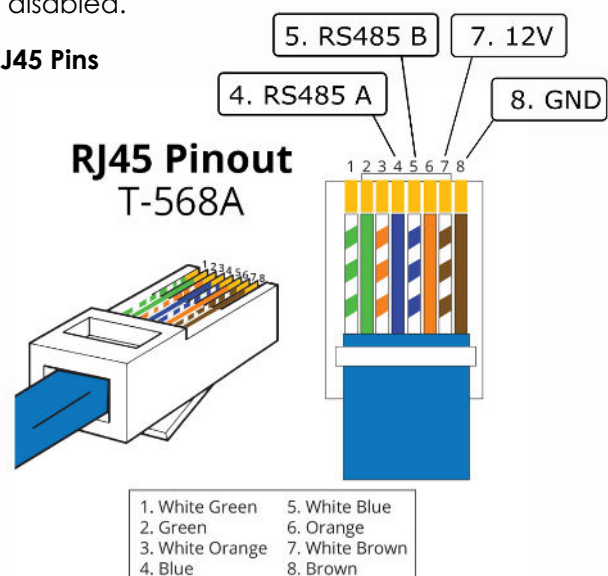
External switches register uses bits to show the state of switches:

- Bit 0 - Switch 1
- Bit 1 - Switch 2
- Bit 2 - Switch 3
- Bit 3 - Switch 4

16 Bit Holding Registers:

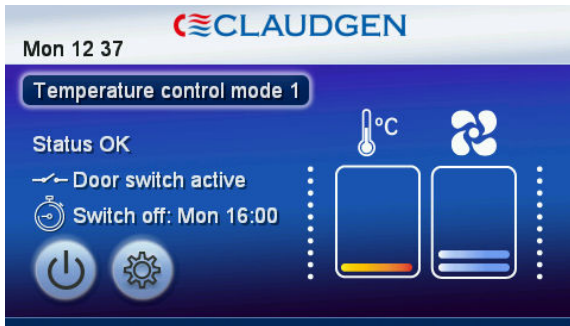
- 1 RPM (units revolutions per minute)
 - 2 Power (units percentage 0 -100)
- RPM must be set to at least 600, otherwise heating is disabled.

RJ45 Pins



10. Touchscreen Controller Operation

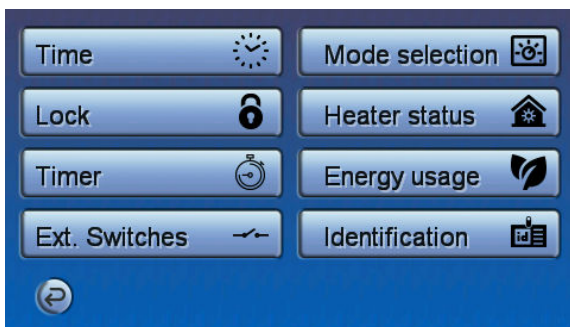
10.1 Home Screen



The home screen provides information about the air curtain status and all relevant functions.

- Time
- Operating mode
- Heater status
- Door switch status
- Timer status
- Heat output
- Fan speed
- ON / Stand-by button
- Settings menu button

10.2 Settings menu



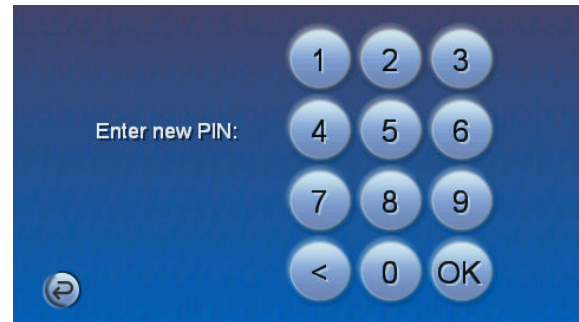
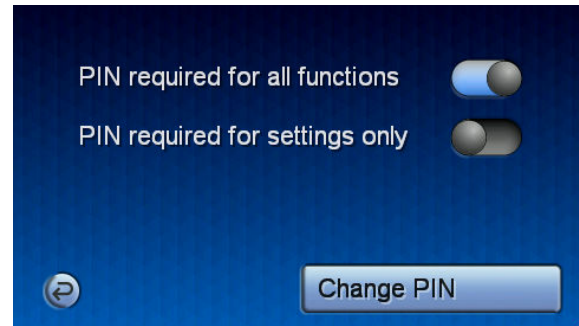
All functions and settings are available from this menu.

10.3 Time



The time can be set using the arrow buttons. A coin battery CR1220 maintains the time when power is interrupted. Time is displayed on the home screen and needs to be set to use the timer function.

10.4 Lock

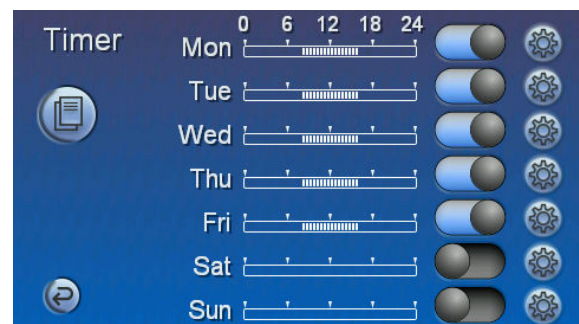


PIN function can be enabled to prevent unwanted operation of the air curtain or changing the settings.

The PIN can be completely disabled, enabled for settings only or all functions.

The default Pin is set as **1234**, but can be changed using the Change Pin button. If the PIN is forgotten contact Consort technical help.

10.5 Timer

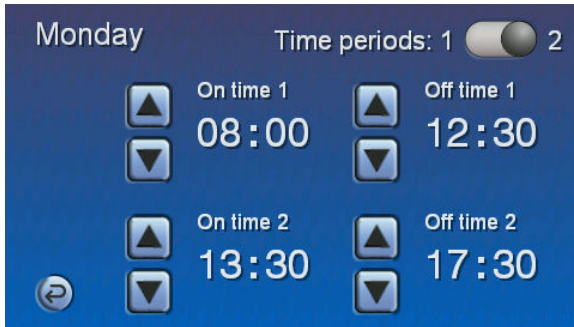


The 7 day timer function allows scheduling automatic switching between on and stand-by. Each day can be individually enabled or disabled. The timer allows up to two periods of operation per day. The white bars indicate when the air curtain is timed to switch on.

Use the settings buttons to set up the time for each day (see next page), and the copy button to copy settings from one day to another.

10. Touchscreen Controller Operation - cont.

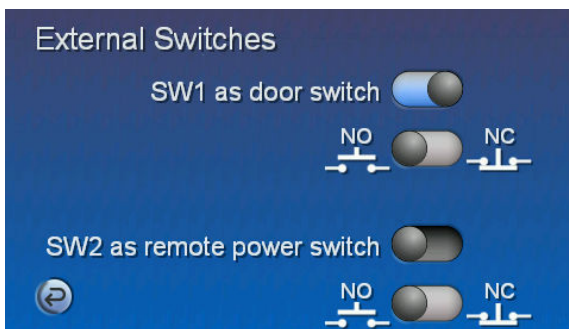
10.6 Timer - time schedule



There are 2 timer periods for each day available. Tapping the slider in the top right corner will change between 1 or 2 time periods.

The times for the first time periods are on the top of the screen, the times for the second timer period are on the bottom of the screen. Times can be adjusted in 15 minute intervals using the buttons. When the timer is active, an icon will appear on the home screen giving information about the next switch time.

10.7 External switches



There is a provision for 2 remote switches to be wired into the air curtain. The switches must be voltage free type, NO or NC configuration.

SW1 can be connected to a door switch or occupancy sensor installed in the door area. When the function is activated, the door switch will enable the air curtain when the door is open and disable it when the door is closed. The second slider is used to configure the system for the correct switch type. When the air curtain is disabled by the door switch, the air curtain will operate at a low fan speed. This will allow for a fast start-up when the door is opened. When SW1 is active, the home screen will show the status of the door switch.

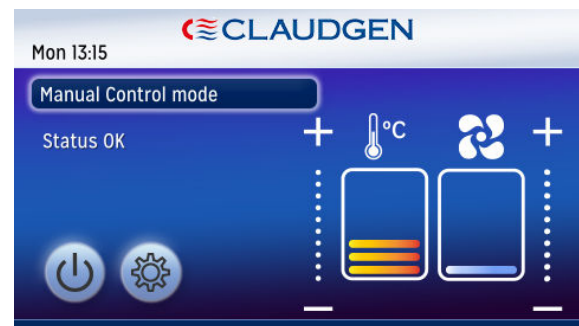
SW2 is intended for a remote switch to be used to disable the air curtain from a remote location. Usually this would be a simple BMS or external timer connection. Once disabled using remote switch, the air curtain can't be controlled by the touchscreen controller and will remain disabled until enabled remotely.

10.8 Operating Mode selection

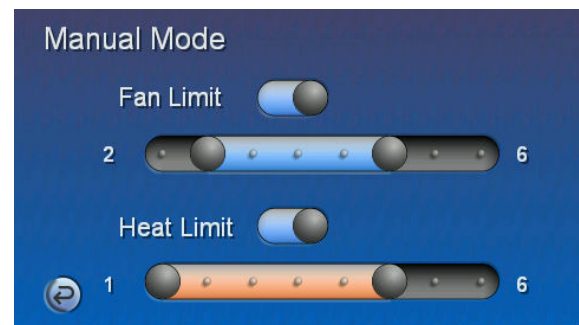


One of four operating modes can be selected. Each mode uses a different method for selecting heat and fan settings when the air curtain is not in stand-by mode. Use the settings button to configure each mode.

10.9 Manual Mode



In manual mode user can select required fan and heat output by tapping + or - symbols on the home screen next to the fan and heat bars.



There are 8 fan speeds and 8 heat settings available. It is possible to set maximum and minimum limits for fan speed and heat output. Once limits are set and functions activated, only limited fan speed and heat output will be available on the home screen when in manual mode.

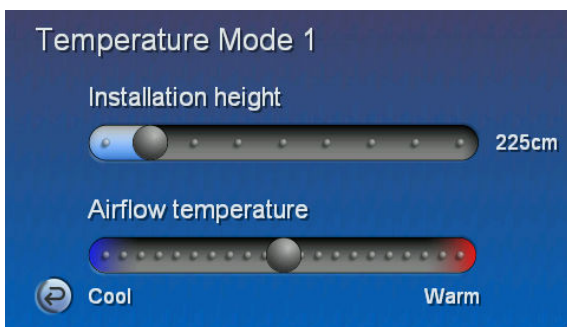
10. Touchscreen Controller Operation - cont.

10.10 Automatic Mode



Automatic Mode is the best choice for easy to set-up efficiency and comfort. Set the height by moving slider to the required position. The air curtain will run at optimum fan speed and heat output based on the inlet temperature.

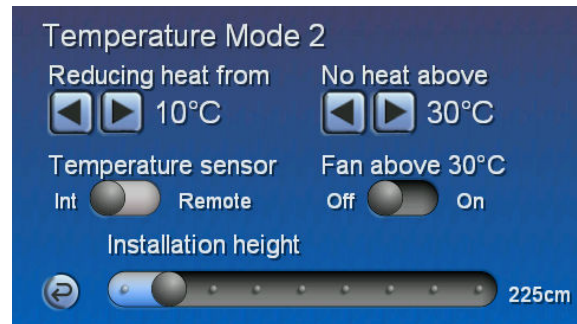
10.11 Temperature Mode 1



Temperature Mode 1 is very similar to Automatic Mode, with the additional option for adjusting the airflow temperature. With the airflow temperature set in the middle of the scale, this is equivalent to Automatic Mode.

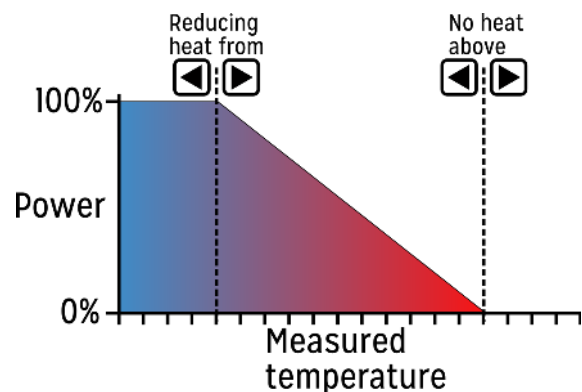
In certain situations, when required, airflow can be increased or decreased by increasing or decreasing the set installation height. Using a higher setting for the installation height will make the air curtain less energy efficient.

10.12 Temperature Mode 2



This operating mode is suitable for situations where the air curtain is used to maintain the room temperature or where the requirement is to adjust the heat output based on the indoor/outdoor temperature.

This operating mode can use either the internal or the optional external temperature sensor.



The temperature on the left defines the starting point below which the air curtain uses full power. The temperature on the right defines the point above which the air curtain doesn't produce any heat. As the measured temperature rises the heat output is gradually reduced until the air curtain doesn't produce any heat.

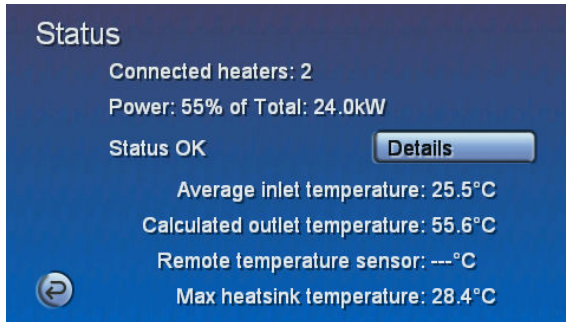
Using the internal temperature, this mode can be used to maintain room temperature.

With a remote sensor installed outside, this mode can be used to compensate for external temperature.

There is also an option to select fan function after the air curtain stops producing heat. Fan can be set to turn off after the air curtain stops producing heat or run all the time.

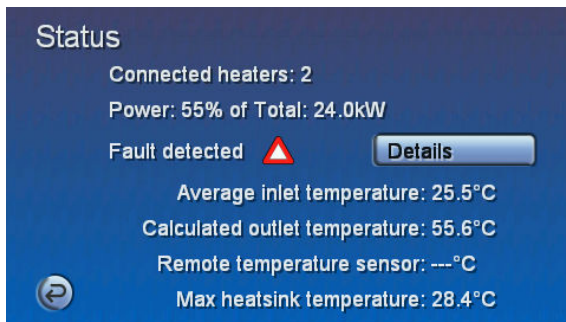
10. Touchscreen Controller Operation - cont.

10.13 Heater status

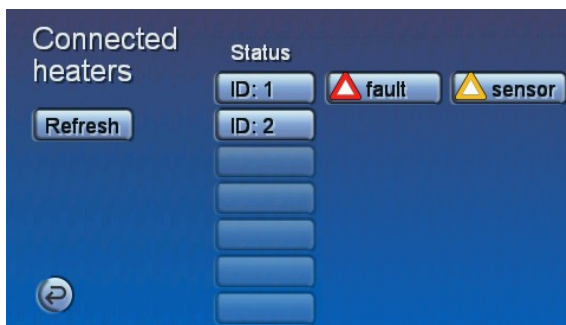


The Status screen provides an overview of values from all connected air curtains. The air curtains need to be run before some of the values can be calculated.

In the event of a fault a red warning triangle is displayed:



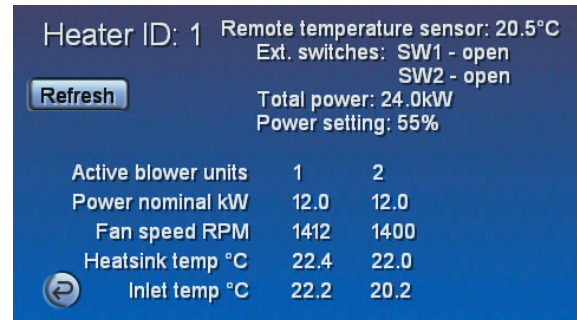
More details are available when tapping the details button. The detailed status screens are primarily for installers or engineers to help with installation or fault diagnostics.



The connected heaters screen shows all of the currently connected air curtains, in order of address ID. Air curtains are connected when the controller is first powered up. In order to connect to newly powered air curtains, press Refresh to search for them.

For each connected air curtain, up to 3 detailed status screens are available. These are general status, faults and sensor screens.

The links to the faults and sensor screens are hidden when no faults have been identified.



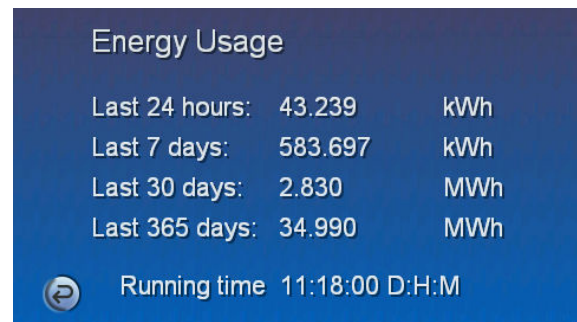
The general status screen shows details about the air curtain and all of the internal blower units.

The air curtain needs to be run before some of the values can be calculated.

The faults screen can provide detailed diagnostic of faults for each internal blower unit.

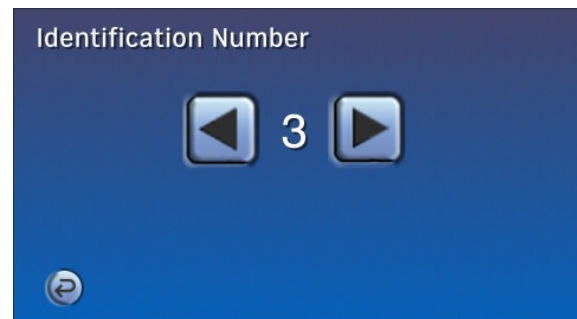
The sensor screen shows the status of the temperature sensors.

10.14 Energy usage



The energy usage screen provides information related to energy used from the day the air curtain was installed. The values are calculated based 3PH 400V and so will differ from actual energy usage when mains voltage is lower or higher.

10.15 Identification



User can set ID number for controller identification. This number is shown on the left hand corner of the home screen. This feature is useful in situations where there is more than one controller side by side.

Declaration Of Conformity

In accordance with UK Government Guidance.
WE HEREBY CERTIFY THAT THE APPLIANCES DETAILED HEREON HAVE BEEN
INSPECTED AND TESTED, AND CONFORM TO THE REQUIREMENTS OF THE
FOLLOWING UK STATUTORY INSTRUMENTS WHERE APPLICABLE:

Electrical Equipment (Safety) Regulations 2016 SI. 2016 1101

Electromagnetic Compatibility Regulations 2016 SI. 2016 No. 1091

Radio Equipment Regulations 2017 SI. 2017 No. 1206

The Ecodesign for Energy Related Products and Energy Information (Amendment) (EU Exit) Regulations 2019. SI. 2010 2617

The Restriction of use of Certain Hazardous Substances. SI. 2012 No. 3032

The Supply of Machinery (Safety) Regulations 2008 (SI 2008/1597)

The Waste Electrical and Electronic Equipment Regulations 2013. SI 2013 No. 3113

Security Requirements for 'Connectable Products' PTSI Act 2022

Transposed standards used:

- **BS EN 55014 (2006)**
- **BS EN 301489.1 & .3**
- **BS EN 300220.1 & .2**
- **BS EN 60730.2.9**
- **BS EN 60335.1 (2012)**
- **BS EN 60335.2.30 (2009)**
- **ETSI BS EN 303 645**

PART NUMBER AND DESCRIPTION OF APPLIANCE: **RAC1306, RAC1309, RAC1312,
RAC1509,RAC1512, RAC1514, RAC1516**

NAME OF RESPONSIBLE PERSON: **DAVID O'SULLIVAN**
POSITION: **OPERATIONS MANAGER**
DATE: **24/06/24**



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