Manuals+ — User Manuals Simplified.

**180 EC Series
Fan Convectors
Caspian® EC
Variants with
Smart Controls**

Smith s 180 EC Series Fan Convectors Caspian® EC Variants with Smart Controls User Manual

Contents

Smith s 180 EC Series Fan Convectors Caspian® EC Variants with Smart Controls

Product Information

The 60 | 90 | 120 | 150 | 180 EC Series Fan Convectors are designed for efficient heating solutions. They come with smart controls for easy operation and enhanced energy efficiency. The product is certified to comply with European Union directives for safety and performance standards.

Specifications:

- **Product Name:** Caspian
- **Product Range:** Caspian Smart Control Range – Caspian UV, Caspian FF, Caspian EXT, Caspian SL, Caspian TT, Caspian UVC sizes 60, 90, 120, 150 & 180

Product Usage Instructions

- **Installation:**
    - Ensure installation is not in wet rooms or high-humidity areas.
    - Connect pipe connections of 22mm for maximum efficiency.
    - Observe flow direction when mounting the zone valve.
    - Use a 3A fused spur for electrical connection.
    - Mount the units on a flat even surface to avoid vibration.
- **Commissioning:**

    Follow the guidelines provided in the manual for commissioning the fan convectors.
- **User Guide for Wi-Fi Thermostat:**

    Refer to the user guide for detailed instructions on programming the Wi-Fi thermostat for controlling the fan connectors remotely.
- **Maintenance:**

    Regular maintenance is essential for optimal performance. Refer to the manual for maintenance instructions.
- **Fault Finding:**

    In case of any issues, refer to the fault-finding section of the manual for troubleshooting steps.

FAQ:

Q: Can I use a 15mm pipe for heating capacities of up to 12kW?
A: Yes, you may use a 15mm pipe subject to compliance with CIBSE recommendations.

Introduction

- These heaters must not be installed in wet rooms or other high-humidity areas.
- These heaters are designed for use on standard two-pipe pumped central heating systems with a maximum water temperature of 86°C and a maximum pressure of 6 bar (88lbs/in.).
- Pipe connections are 22mm, to obtain maximum efficiency and output the flow should be connected to the header tube which is nearest the exiting air side of the heat exchanger.
- When mounting the zone valve to the system pipework the arrows indicating flow direction must be observed and respected.
- These heaters are classified as a fixed appliance and the electrical connection should be via a 3A fused spur. The fused spur must not be directly below the heater but should be accessible after the completion of the installation. All heaters must be earthed.
- To avoid the possibility of vibration these units must be fitted to a flat even surface.
- Please note that the guarantee may be invalidated if this product is not installed and used by these instructions.
- **Note:** A 15mm pipe may be used for heating capacities of up to 12kW. (This is subject to compliance with CIBSE recommendations)

Declaration of conformity

EC Declaration of Conformity
We, Smith's Environmental Products Limited 1-2 Blackall Industrial Estate South Woodham Ferrers Chelmsford Essex CM3 5UW

- Tel: 01245 324900 Fax: 01245 324422
- Declare under sole responsibility that the products:
    - **Product name:**

      Caspian
- **Product range:**

  Caspian Smart Control Range – Caspian UV, Caspian FF, Caspian EXT, Caspian SL, Caspian TT, Caspian UVC sizes 60, 90, 120, 150 & 180

Conform to the following European Union directives:

- Low Voltage Directive 2014/35/EU
- Safety of household electrical appliances:
    - EN 60335-2-80:2003, +A1:04 +A2:09
    - EN 60335-1:2012 +A11:14 +A13:17 +A14:19 +A1:19 +A2:19

Electromagnetic compatibility (EMC)

- EN 55014-1:2017
- ETSI EN300 328: V2.1.1:2016
- EN55014-2:2015

This Declaration is made on behalf of Smith's Environmental Products Limited.

Salus controller
The Salus controller independently complies with the essential requirements and other relevant provisions of Directives 2014/30/EU, 2014/35/EU, 2014/53/ EU and 2011/65/EU. The full text of the EU Declaration of Conformity is available at the following internet address: **www.saluslegal.com**.

Symbols

This manual contains information and prescriptions marked by the following symbols.

⚠	Ignoring these safety provisions marked by the symbol "caution: hazard" may endanger the safety of people.
⚡	Ignoring these safety provisions marked by the symbol "caution: electricity" may endanger the safety of people, as well as the integrity of things.
♨	The removal of the screws can cause the output of hot fluids under high pressure from heating system. Drain the system or close the isolating valves.
♨	High temperature surface. Take utmost care to prevent people from getting in contact with the hot surfaces of the appliance.

Important safety and installation instructions

Before installation, read these installation and operating instructions. The installation and operation should also be by national regulations and accepted codes of good practice.

This appliance can be used by children aged 8 years and above and persons with reduced physical, sensory, or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning the use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be done by children without supervision.

To guard against injury, basic safety precautions should be observed, including the following:

1. Read and follow all safety instructions and all the important notices on the appliance before installing, using, and maintaining the appliance. Failure to do so may cause personal injury or damage to the appliance or installation.
2. Always disconnect the electrical supply before putting on or taking off parts and whilst the equipment is being installed, maintained, or handled. Never work with bare feet and/or with wet hands.
3. A risk assessment should always be carried out before work, Correct PPE should be worn.
4. To avoid possible electric shock, special care should be taken since water is used with electrical equipment. Carefully examine the appliance before and after installation. Do not operate the appliance if it has a damaged supply cord or enclosure, or if it is malfunctioning or it is dropped or damaged in any manner. Inspect the appliance according to the manufacturer's instructions.
   The appliance should not be electrically supplied if there is water on parts not intended to be wet.
5. Risk of scalding. To avoid injury before any servicing operation wait until the water has cooled inside the appliance. Do not touch the fluid or the appliance when the temperature is higher than 60°C.
6. Improper use.
   This is an appliance to be used in heating systems with clean water without abrasive particles.
   Do not use this appliance:
   - With liquids other than water (e.g. flammable liquids, etc.) (EN60335-2-51);
   - In locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapor or gas) (EN60335-2-51);
   - For other than intended use.
7. **Installation.**
   The appliance must be mounted in a stable/fixed position in a dry, well-ventilated, frost-free, waterproof, and protected place, with sufficient ventilation around it. Make sure that the appliance is securely and correctly installed before operating it and that there is enough room around it for maintenance operations, dismantling, and checking for free inspection.
   The maximum ambient temperature at which the appliance is to be used is 40°C (EN60335-2-51).
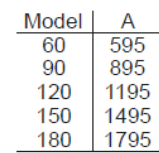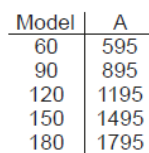8. **Electrical connection**
   Important: Connection to the power supply must be effected through a fixed power cable via a two-pole isolating switch (fused spur) with a minimum contact opening of 3mm.
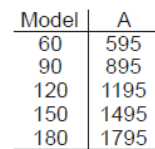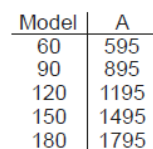   - The fused spur must not be directly below the heater but should be accessible after the completion of the installation. All heaters must be earthed.
   - Electrical connection must be carried out by a qualified electrician and under local regulations and both data on the nameplate and the appropriate diagram inside the terminal box cover.
   - Follow all safety standards.
9. All electrical work should be carried out under current IEEE regulations; we recommend the appliance is protected by a Residual Current Device (RCD or Ground-Fault Circuit-Interrupter) with a rated residual operating current not exceeding 30mA.
10. Before any modification is made to the equipment, it must be agreed upon and authorized by the manufacturer. Original spare parts and accessories authorized by the manufacturer are integral parts contributing to the safety of the equipment and the appliance. The use of non-original components or accessories may endanger the safety and cause the termination of the warranty. Safe operation is only assured for the applications and conditions described in the Application of this manual.

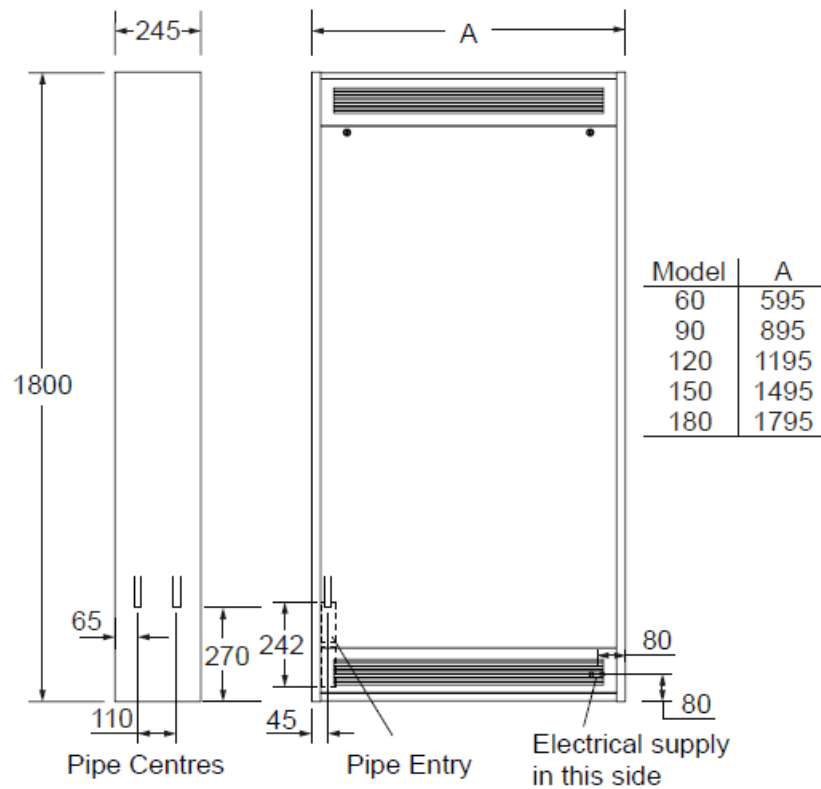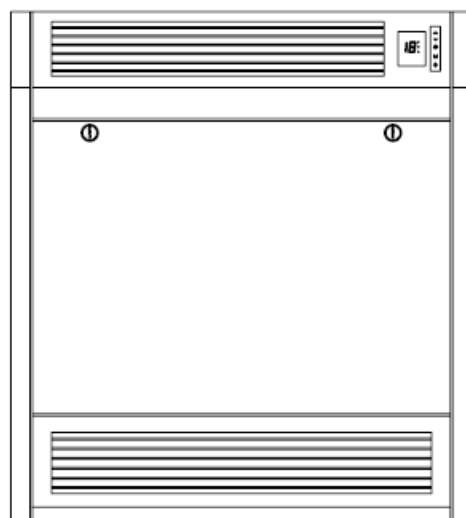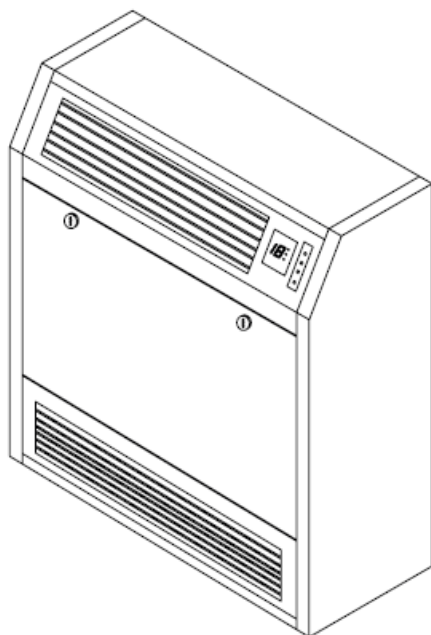Non-observance of the safety instructions results in the loss of any claims for damages. The indicated limit values are binding and cannot be exceeded for any reason whatsoever. KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE.

Product Dimensions

Caspian UV

Model	A
60	595
90	895
120	1195
150	1495
180	1795

Caspian SL

Model	A
60	595
90	895
120	1195
150	1495
180	1795

Caspian FF

Model	A
60	595
90	895
120	1195
150	1495
180	1795

Caspian TT

Model	A
60	595
90	895
120	1195
150	1495
180	1795

Caspian EXT

Model	A
60	595
90	895
120	1195
150	1495
180	1795

245

1800

A

65

270 242

80

80

110

45
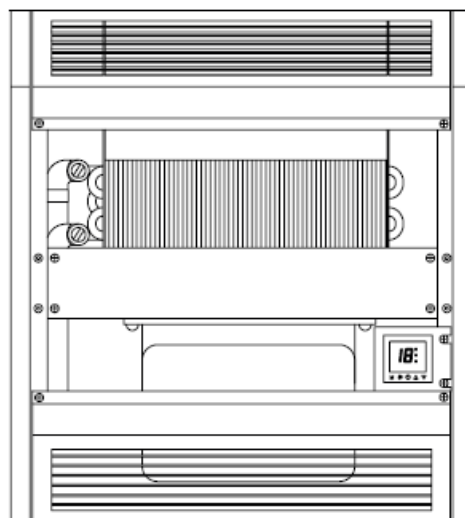
Pipe Centres

Pipe Entry

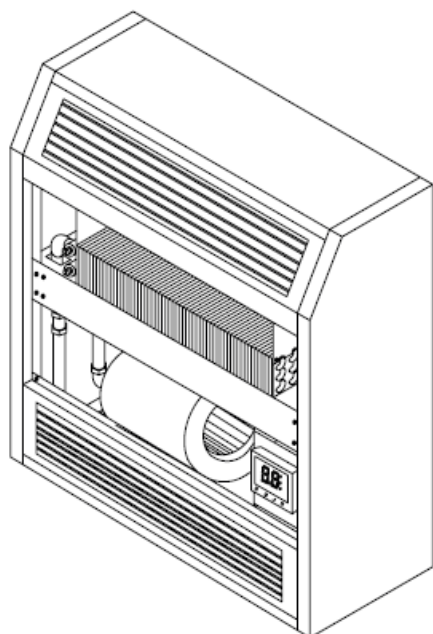Electrical supply
in this side

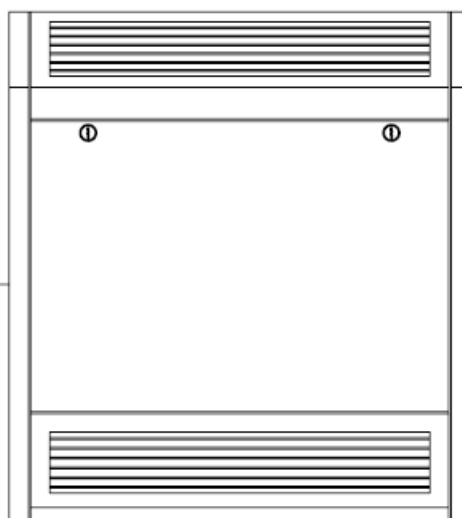## Control mounting options/configurations

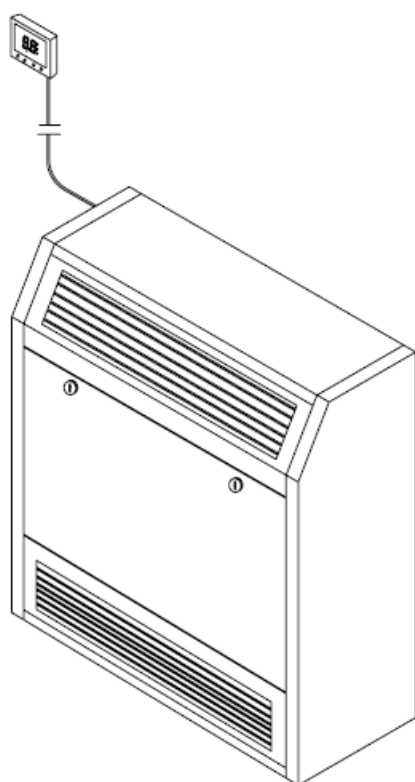**Predetermined at the time of order**

Flush mounted

Internally mounted
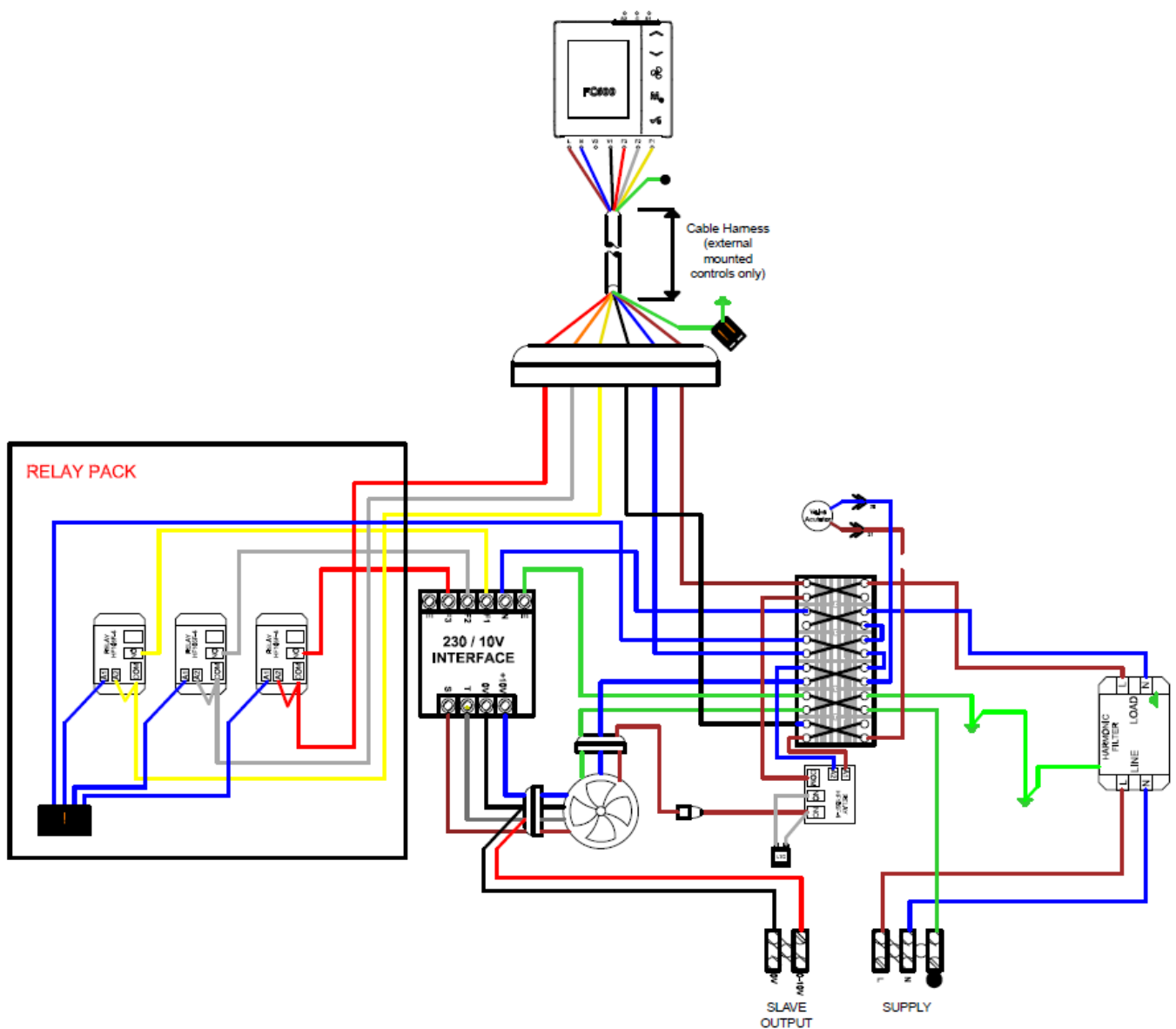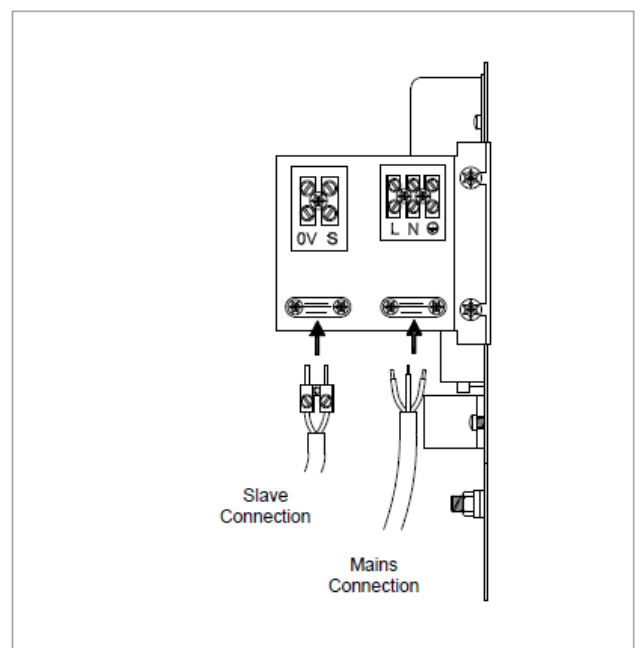(tamper proof)
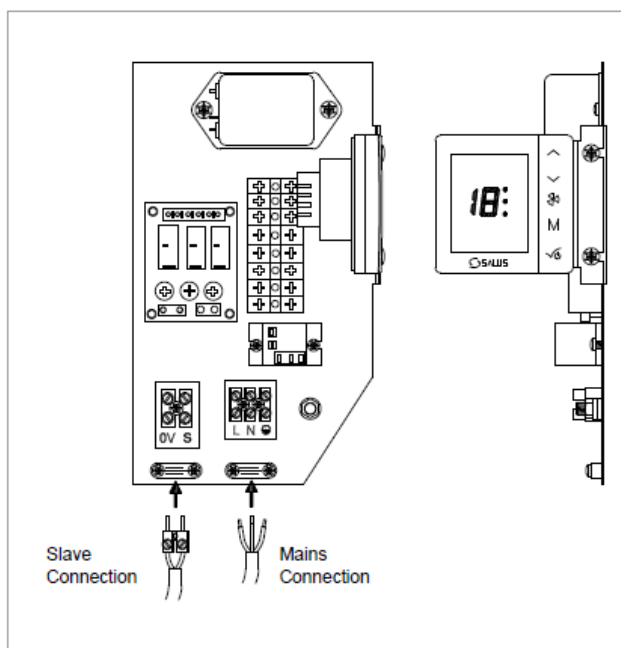
Wall mounted
(remote)

Wiring diagram

Standard

Wiring diagram – Master Slave

- Internal control option (control adjacent to wiring panel)
- Remote/flush control options (electrical connection moved adjacent to wiring panel)

Product performance

Heat output – EC

Model Reference	Fan Speed	Control Voltage VDC	40°C MWT	45°C MWT	50°C MWT	55°C MWT	60°C MWT	65°C MWT	70°C MWT	75°C MWT	80°C MWT
	Low	3.8	0.85	1.20	1.55	1.96	2.37	2.78	3.19	3.61	4.02
EC 60	Mid	4.9	1.13	1.62	2.10	2.58	3.06	3.55	4.03	4.51	5.00
	High	6.4	1.47	2.05	2.63	3.21	3.79	4.36	4.94	5.52	6.10
	Low	3.2	1.98	2.55	3.11	3.67	4.24	4.80	5.37	5.93	6.50
EC 90	Mid	4.6	2.80	3.58	4.36	5.14	5.91	6.69	7.47	8.25	9.03
	High	6.1	3.68	4.65	5.62	6.59	7.55	8.52	9.49	10.46	11.42
	Low	3.1	3.03	3.61	4.19	4.78	5.36	5.94	6.53	7.11	7.69
EC 120	Mid	4.3	3.91	4.87	5.82	6.78	7.74	8.70	9.65	10.61	11.57
	High	5.5	4.84	6.00	7.17	8.33	9.49	10.66	11.82	12.99	14.15
	Low	2.9	3.59	4.57	5.55	6.53	7.51	8.49	9.47	10.45	11.44
EC 150	Mid	4.0	4.77	6.10	7.43	8.76	10.08	11.41	12.74	14.07	15.39
	High	5.1	6.47	7.71	8.96	10.21	11.45	12.70	13.94	15.19	16.43
	Low	2.8	4.69	5.92	7.15	8.39	9.62	10.85	12.08	13.31	14.55
EC 180	Mid	3.9	4.93	7.15	9.38	11.60	13.82	16.05	18.27	20.49	22.72
	High	4.9	7.90	9.74	11.58	13.42	15.27	17.11	18.95	20.79	22.63

Model Reference	Fan Speed	Air Volume (m3/h)	Air Volume (l/s)	Specific Fan Power w/ls	Power Consumption (W)	NR in the typical room*
	Low	201.00	55.90	0.14	8.00	34.00
EC 60	Mid	290.50	80.75	0.26	21.00	41.50
	High	380.00	105.60	0.32	34.00	49.50
	Low	297.00	80.75	0.20	16.00	34.00
EC 90	Mid	450.50	124.38	0.34	42.00	41.50
	High	604.00	168.00	0.40	68.00	49.97
	Low	419.30	116.50	0.14	16.00	34.00
EC 120	Mid	549.65	152.68	0.26	40.00	42.00
	High	680.00	188.89	0.34	64.00	49.96
	Low	459.80	127.72	0.17	22.00	34.70
EC 150	Mid	598.10	166.14	0.35	59.00	41.50
	High	736.40	205.56	0.47	96.00	49.38
	Low	542.00	150.56	0.19	29.00	34.90
EC 180	Mid	690.00	191.67	0.40	78.50	41.50
	High	838.00	232.78	0.55	128.00	49.00

*a typical room is taken as a room with a volume of 173m3 and a reverberation time of 0.8 seconds at 500 Hz with one unit installed, situated against a wall or ceiling (radiating noise in a quarter sphere). No allowance is made for attenuation provided by ceilings, enclosures, or ductwork. Outputs based upon testing at EN442: 2014 using mean water temperature and an entering air temperature of 20°C with a 10°C temperature drop between flow and return.

Model Reference	Fan Speed	Hydraulic Resistance (KPA)	Nominal Weight (KG)	Water Capacity (L)
	Low	1.38		
EC 60	Mid	1.69	23.00	0.92
	High	2.00		
	Low	4.70		
EC 90	Mid	5.85	36.00	1.50
	High	7.00		
	Low	17.78		
EC 120	Mid	20.59	45.00	2.08
	High	23.40		
	Low	22.23		
EC 150	Mid	29.46	60.00	2.58
	High	36.69		
	Low	47.83		
EC 180	Mid	60.76	78.00	3.18
	High	73.70		

Correction factors

Mean Water Temp °C					45 – 80	
Water Temperature drop °C		5	10	15	20
Entering Air Temperature °C	15	1.13	1.10	1.07	1.05
	18	1.08	1.05	1.02	0.99
	20	1.04	1.00	0.95	0.89
	25	0.93	0.91	0.89	0.86

Factors are approximate data based upon a standard coil.

How to calculate Mean Water Temperature (ΔT)

$$\text{Mean water temperature } (\Delta T) = \left[\frac{\text{Flow temperature + Return temperature}}{2} \right] - \text{Ambient Temperature}$$
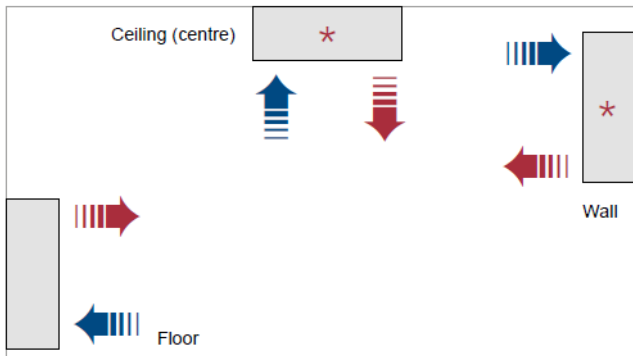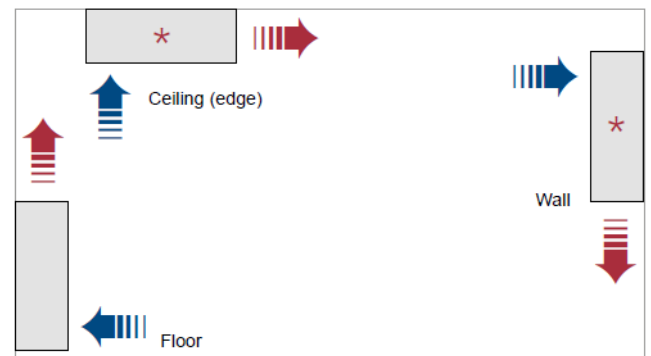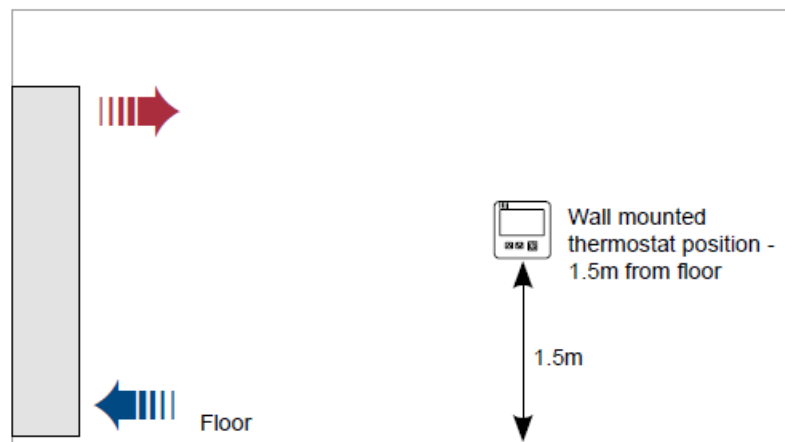
Mounting options

Caspian UV

Caspian SL

Caspian FF

Caspian TT

Caspian EXT

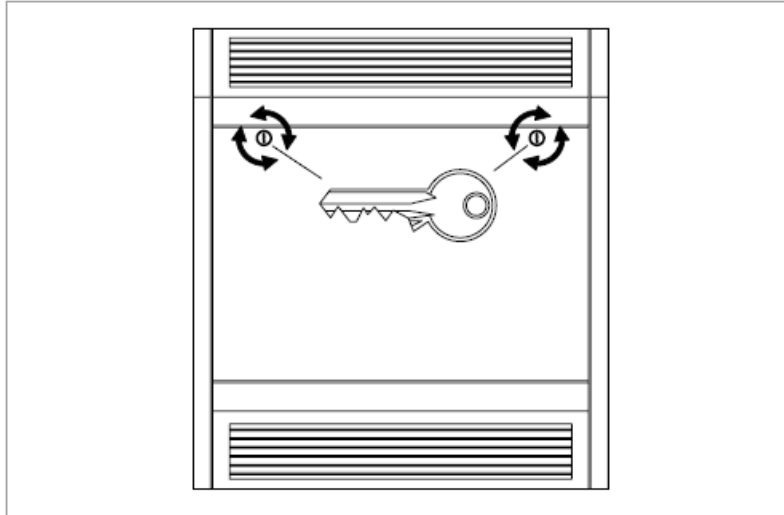Wall mounted thermostat position - 1.5m from floor

1.5m

- Control options depend upon the product location.
- Flush-mounted and Internal-mounted control options are suitable for floor standing and other low applications.
- Wall-mounted remote control option should be used for * wall and ceiling-mounted applications.
- It is possible to have reverse airflow on low-level units (Entering air in via the upper grille top and exiting air out via the lower grille) a wall-mounted remote control option should be used in this instance.
- Wall-mounted remote controllers should be positioned 1.5metres from the floor without direct solar radiation or other heat or refrigeration sources

Installation

1. **Unlock the front access panel**
   Unlock and lower the front access panel using the keys supplied. The keys come cable tied to the back of the
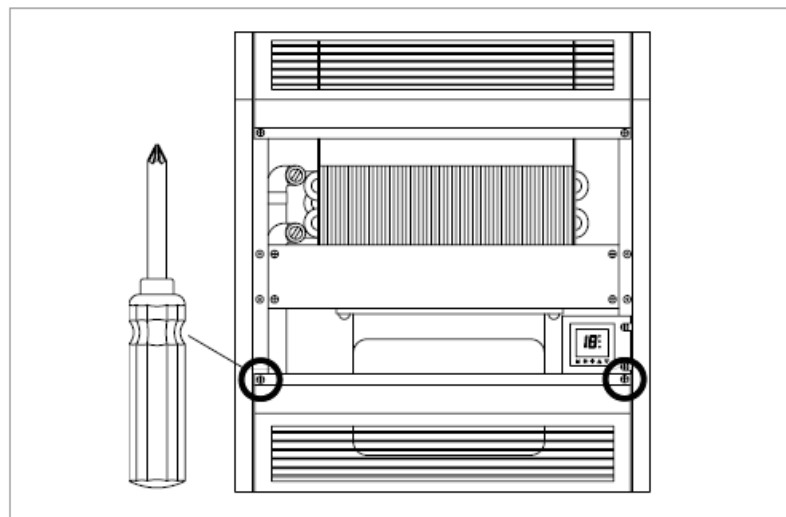
heater.

2. **Fix unit to wall or ceiling**

   Fix the unit to the ceiling or wall via suitable fixings. If fitted to suspended ceilings or similar then suitable means of support such as threaded rods or chains must be used.
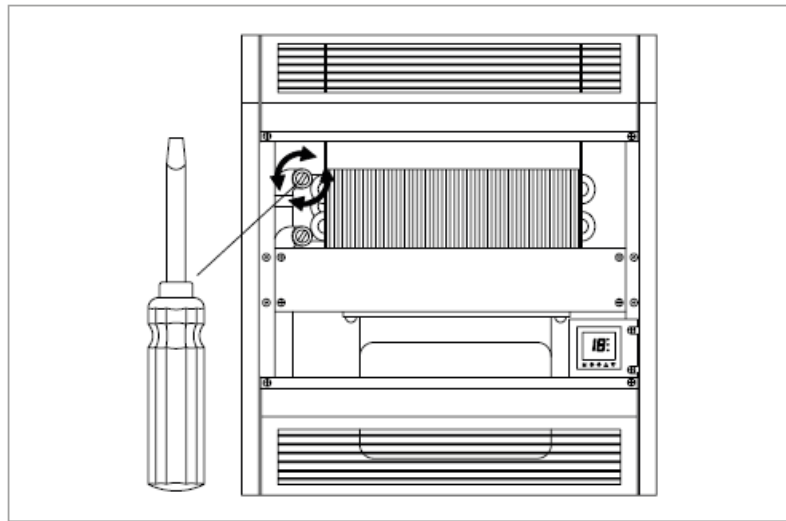
3. **Connect the pipes**

   - Connect the heating system flow and return pipes to the heater pipe work. Pipe entry/exit can be made through either the back of the unit or by using the pipe knockouts on the bottom of the unit. Do not use soldered fittings to connect the heater pipe work as the heat generated may cause damage to internal wiring and components. Compression fittings should be used. Pipework must only enter in intended cutouts or knockouts on the header connection side of the heater.

   - **Note:** 15mm pipework suitable for heating outputs up to 12kW, 22mm should be used where output exceeds 12kW (this is subject to compliance with CIBSE recommendations).

   - **Note:** The system must be flushed before fitting this heater. Failure to comply with this may affect the warranty.

   - Isolating valves must be fitted. We recommend the use of full-flow service valves. The valves should be accessible after completion of the installation. We also advise the fitting of an air vent at the highest point on either the flow or return pipe to remove any air trapped within the system. Valves must have the ability to regulate flow for balancing.
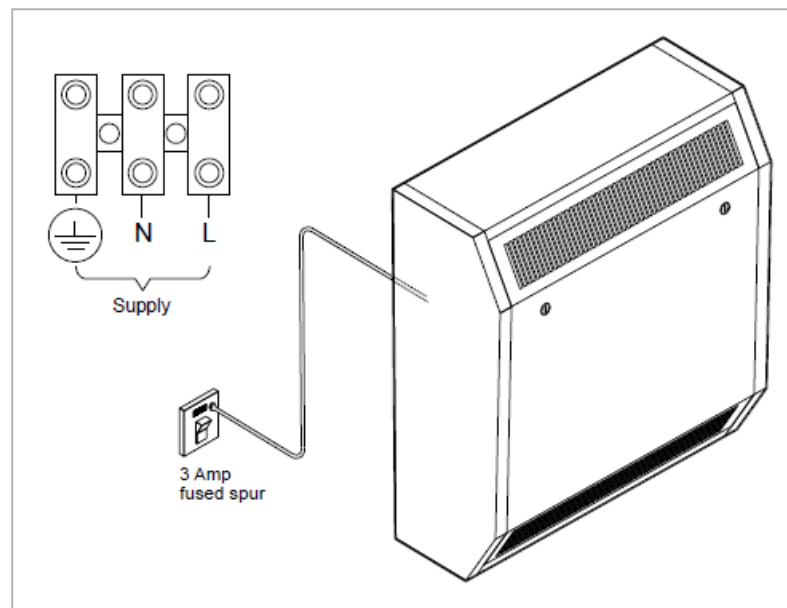
4. **Open the service valves**

   Having filled the heating system with water, open the full flow service valves and check for water leaks. Remove any trapped air from the unit via the built-in bleed screws as shown in the diagram below.

5. **Electrical supply and electrical connection**
    1. The electrical supply to the unit must be nominal 230VAC 50~Hz.
    2. Electrical connection to the product is via a 3-way terminal block inside the product (L, N, E), on the electrical panel.
    3. Connect the power supply from the fused spur (3 Amp) to the heater terminal block marked Supply E N L via the cable entry hole in the top chassis of the heater.
    4. The fused spur must not be directly below the heater and must be accessible after the installation is complete.
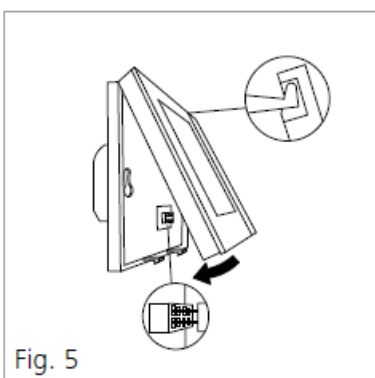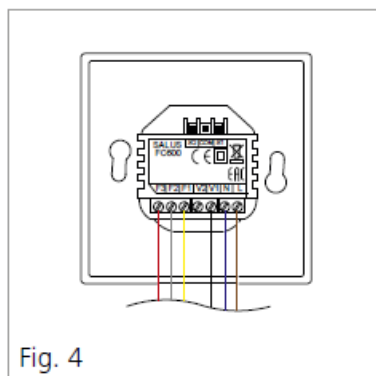   5. All electrical work should be carried out per current IEEE regulations.
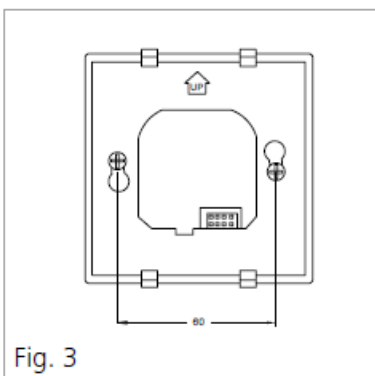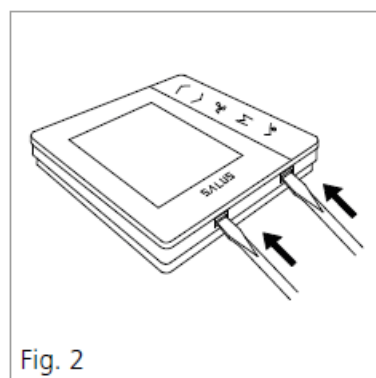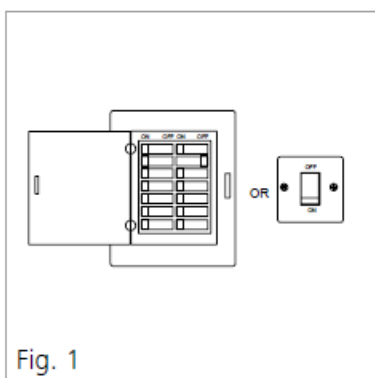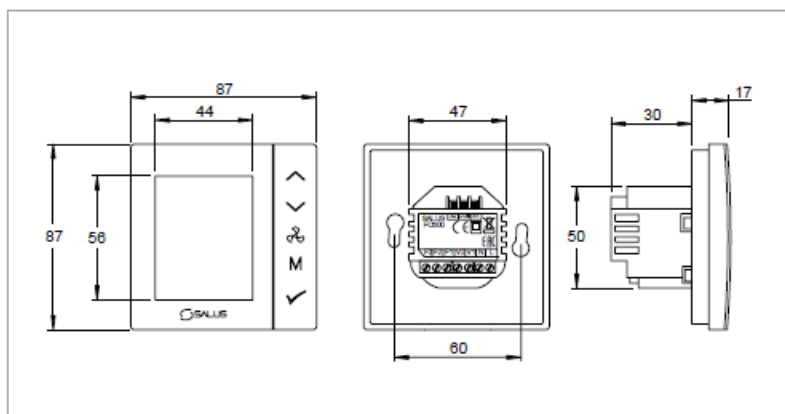

Installation – Remote smart controller
For Smart flush and integral control models.

1. Ensure the power supply is switched off
2. Remove the mounting plate from the controller by inserting a small screwdriver into the slots at the base of the controller. See Fig 2.
3. Fix the mounting plate to the wall using either a recessed or surface-mounted back box using the screws provided. See Fig 3.
4. Connect the power supply, and connect wires to the appropriate terminals on the controller. See Fig 4.
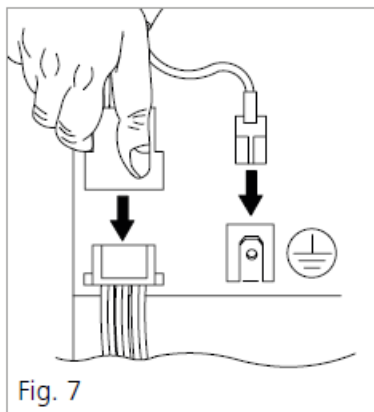5. Fasten the body of the thermostat and the mounting plate. See Fig 5.

6. When using an external pattress box assemble as shown. See Fig 6.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Connecting the remote smart controller to the heater

1. Feed the connector end of the wire harness through the cutouts in the back or underside of the unit.
2. Plug in the wire harness connector block to the female connector block situated on the heater electrical; panel as shown in Fig 7.
3. Connect the earth connector to the earth tag on the wiring panel adjacent to the connector block as shown in

Fig 7.

Fig. 7

Remote sensor wiring
A remote sensor may be used where the thermostat will remain internally in the unit. See wiring diagram S2 and C connections.

Master/slave wiring, hard wire
Some units may be controlled by one thermostat. For connection details please see the wiring diagram.

Note:

- Maximum units: 4
- Maximum total distance (Cable): 40 meters

Commissioning

1. Turn on the electrical supply at the fused spur.
2. Set the thermostat to maximum using the increase button on the controller.
3. Turn on the central heating system.
4. Balance the central heating system to ensure the correct system flow rate is achieved.
5. If the installation is working correctly remember to reset the thermostat control to its normal setting.
6. Set the fan speed control to the desired setting (low, medium, or high) using the fan speed button on the controller.
7. Internal mounted (tamper proof) models only. Close the front access panel, and ensure this is secure and locked in place with the keys provided.
8. This Installation and User Guide must be left with the user for future reference.
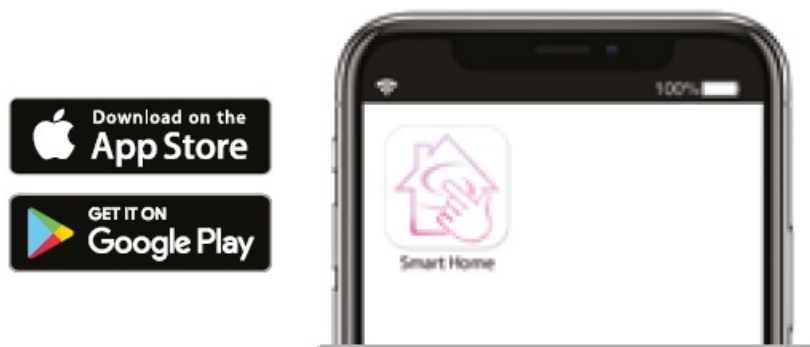
Heating operation

- Ensure the central heating system is ON. Switch on the power supply to the unit. Set the thermostat control to the desired temperature.
- Providing the water temperature in the central heating system is more than 38°C (Standard LTC only) and the thermostat is calling for heat the product will switch on.

Quick user guide for Wi-Fi Thermostat

A SALUS FC600 is a device suitable for controlling your Caspian unit in 2 pipe systems and for managing the temperature in your home and/or working environment. For an internet connection (Online Mode), this product must be used with the SALUS Universal Gateway Hub (UG600/UGE600) – available as an accessory product code: HACA33130 and SALUS Smart Home App

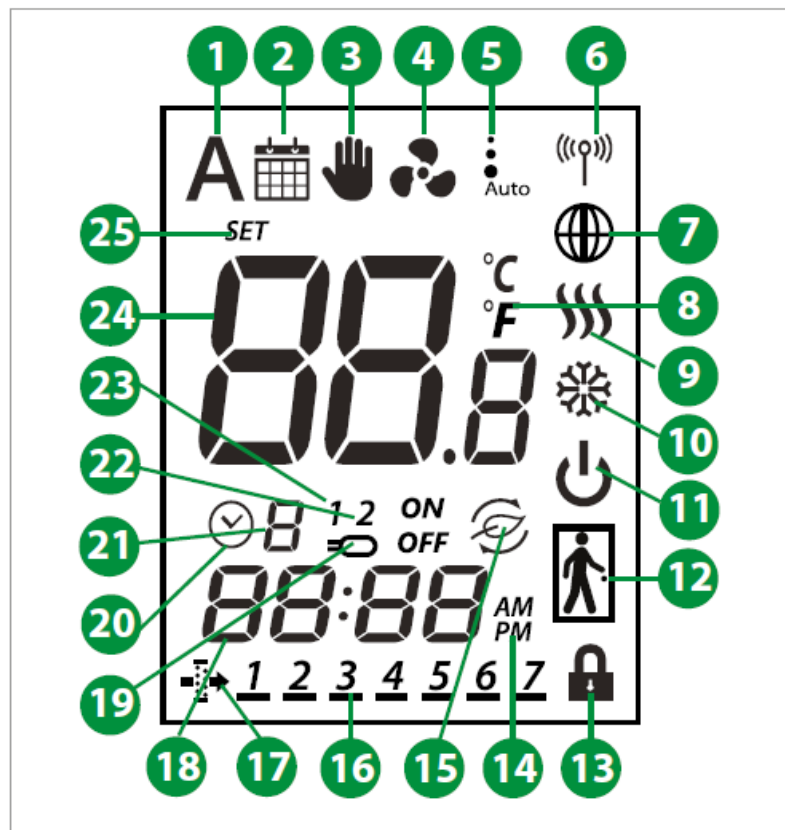You can also use the SALUS FC600 without an internet connection (offline mode). Go to **https://salus-controls.com/uk/product/fc600/#downloads** for the full PDF version of the manual.

Button functions

Key	Function			
⌃	Increase Button			
⌄	Decrease Button			
⚙	Fan Speed Low, Medium, High, Auto, Off			
M⊙	Mode Button		Short press	Long press (2sec)
		Digital	Heat/Cool/Eco selection	Offset, Time
		Program-mable	Permanent override AUTO Heat/Cool/Eco selection	Programmable schedule Offset Time&Date
✓⏻	Short press: Confirm function Long press (2 sec): Activate/deactivate standby mode			

Complete setup instructions for the control can be found at: **https://salus-controls.com/uk/product/fc600/#downloads**.

LCD Icon descriptions

1. Auto heat/cool selection
2. Schedule icon
3. Permanent/temporary override
4. The fan is running (the icon is animated)
5. Fan speed (low, medium, high, Auto, OFF)
6. Wireless communication with the Universal Gateway
7. FC600 is connected to the Universal Gateway and Internet
8. Temperature unit
9. Heating Mode ON
10. Cooling Mode ON
11. Standby mode
12. Occupancy/vacancy sensor
13. Lock function
14. AM/PM
15. Eco Mode
16. Current day of the program
17. The filter needs to be replaced
18. Current time
19. Sensor indicators
20. Timer icon
21. Program number
22. Sensor indicators
23. Sensor indicators
24. Room/setpoint temperature
25. Setpoint temperature indicator

Schedule Mode | Temporary Override | Permanent Override

Getting started

All units are factory configured in off-line stand-alone mode and tested for function when built. Should your unit require setup from storage or reconfiguration to "Smart Home" App control follow the steps below to ensure successful setup and operation.
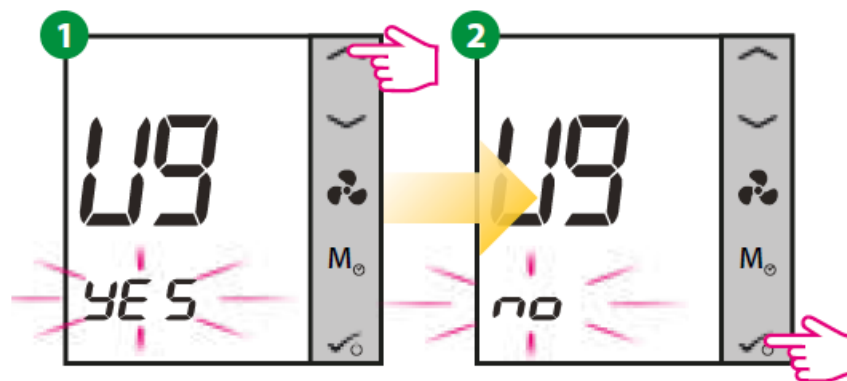
1. Setup as stand-alone control (Confirm unit function)
2. Connect to the "Smart Home" App Requires Universal Gateway Hub (UG600) available as an accessory product code: HACA33130
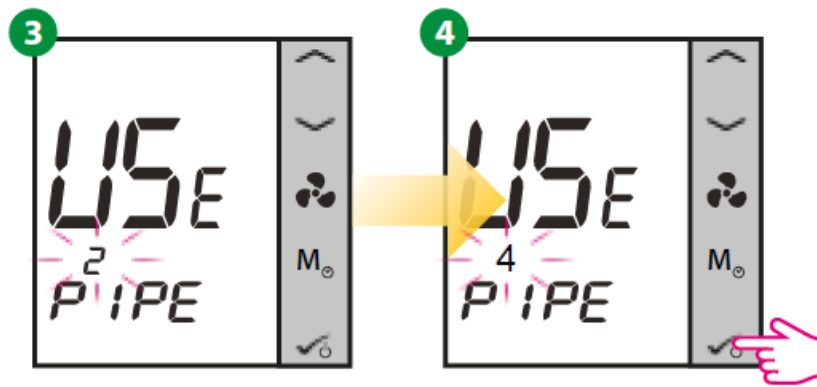
Note:
These instructions demonstrate the settings and setup required to work with our appliance. Complete setup instructions for the control can be found at: **https://salus-controls.com/uk/product/fc600/#downloads** or use the QR code below:

1. When powered for the first time the control will boot (The software version will appear) after a short time the display will change to show "U9 – Yes"
2. This should be "U9 – No" by pressing the up arrow, followed by the tick/confirm button. See images 1 and 2.
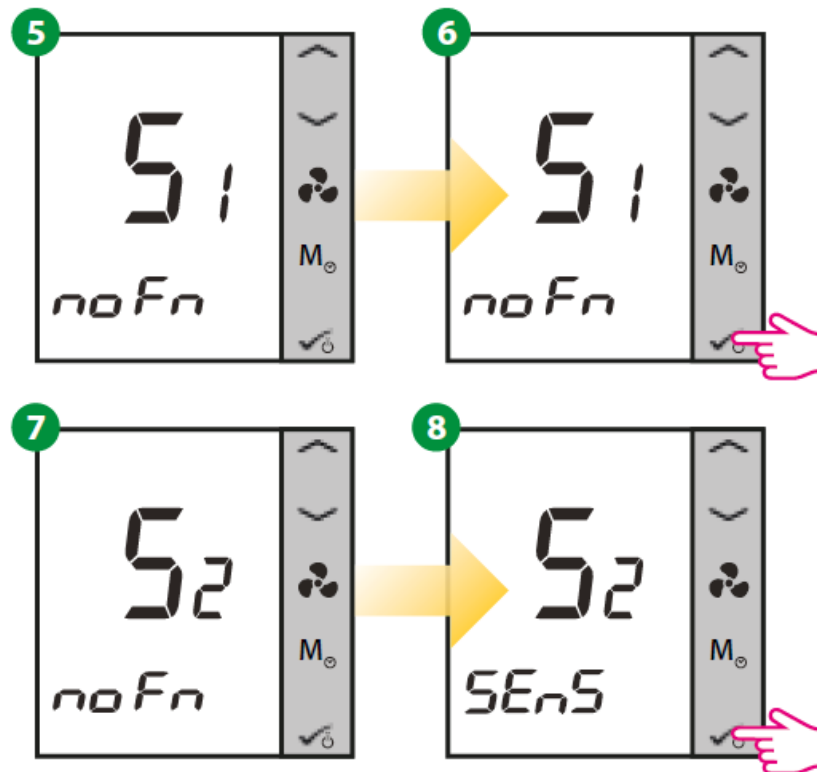

3. The next screen display "USE – 2 Pipe" Change this to "4 Pipe" and confirm parameters (Note: 4 Pipe setting is required to allow fan-only function). See images 3 and 4.
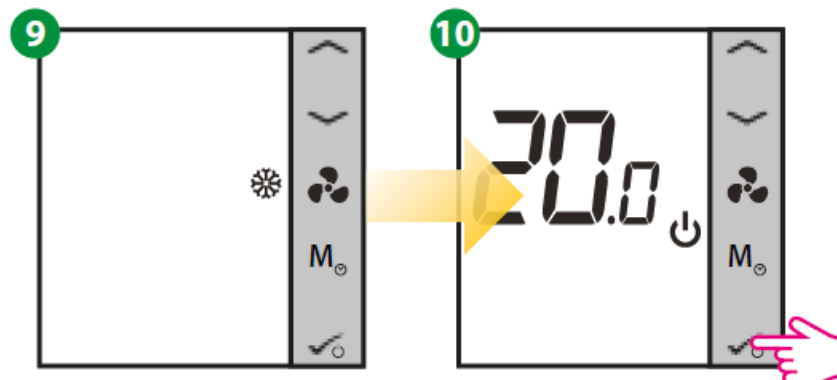
4. Set the S1 and S2 parameters as shown:
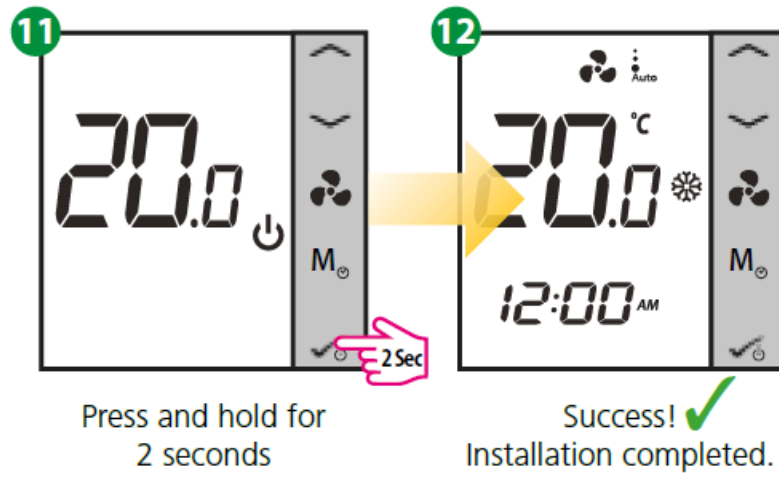
   - S1 – noFN (No Function)
   - S2 – S2sens (External Temperature Sensor)

5. Select the thermostat mode, although this unit is heating only by setting heating and cooling 〰️ ❄️ allows the use of fan only/ventilation if required. See images 9 and 10.
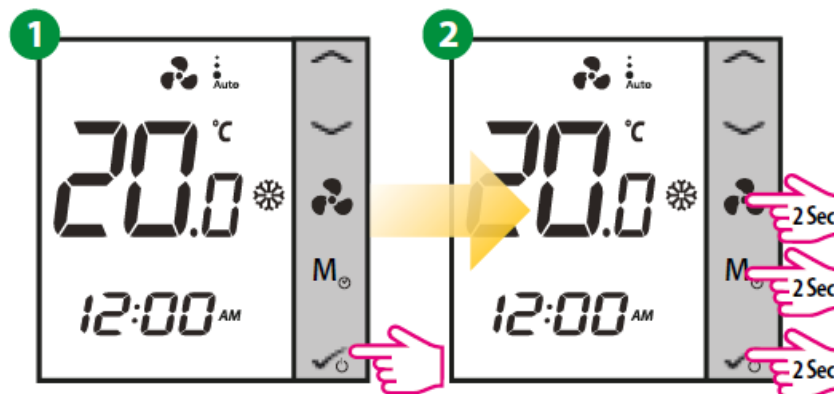

   - Press UP/DOWN to select the operating mode 〰️ ❄️.
   - Press ✓ to confirm.
   - You are now in Standby Mode.

Press and hold for
2 seconds

Success! ✔
Installation completed.

Changing from offline mode to online mode
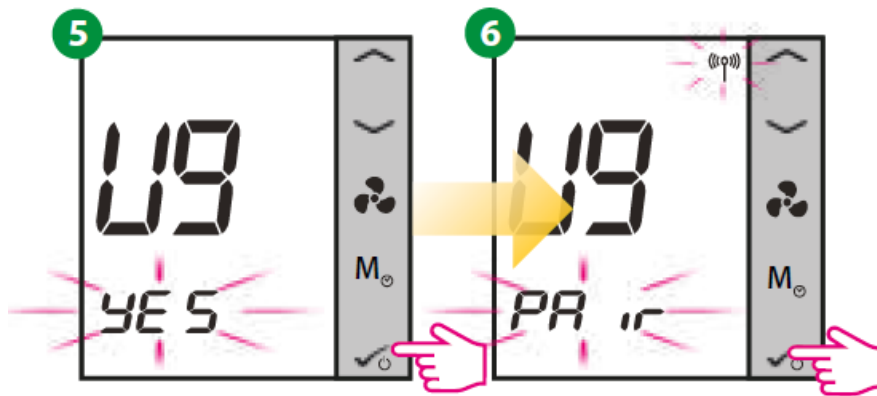If you want to use the internet App and the Universal Gateway Hub UG600 (available as an accessory product code: HACA33130), you need to change your thermostat settings from offline mode to online mode. For that please follow the steps below:

Press OK once then press and hold 3 buttons for 2 seconds.

The digits on the screen will flash. Using the up/down keys enter pass 55 then click OK.

- Press Ok and then short press the button to confirm pairing.

- Press **Scan for equipment** from the App and follow the on-screen instructions.

Set up your device on the App.

You're now in Standby Mode.

Note:
To view details of setup, operation, and parameters, please consult the full manual at: **https://salus-controls.com/uk/product/fc600/#downloads**.

Temporary override
To temporarily override and cause the heater to function follow steps 1-5. This should be used during the commissioning process.

Note: The temporary override will be active until the next program starts. You can cancel the temporary Override

by pressing **M** .

Factory reset

If you have made an error or need to change your system parameters, or want to return to the factory settings, please follow the steps below. By performing this action you will lose all your settings. Factory reset will only take effect on the thermostat you are working on.

1 20.0 °C ❄ 12:00 AM | 2 Sec 2 Sec 2 Sec

2 00 PS uu

3 47 PS uu

4 98.8 °C/°F ☉8 ON OFF 88:88 AM PM 1 2 3 4 5 6 7

5 0.1

6 98.8 °C/°F ☉8 ON OFF 88:88 AM PM 1 2 3 4 5 6 7

7 0.3

8 U9 YES

User Guide

For further information and to view details of set up, operation, and parameters, please consult the full manual at:
https://salus-controls.com/uk/product/fc600/#downloads.

SALUS Smart Home App

You can also access the web version at: **http://eu.salusconnect.io/**.

Youtube
https://www.youtube.com/user/SalusControls.

Maintenance

Warning!
Isolate from the electrical supply before performing any work on the unit.

- The internal air filter is removable for servicing. To gain access to the filter unlock and lower the front access

  panel, remove the 2 screws from the filter enclosure panel, and lift out. Carefully lift out and remove the filter.

The filter should be gently tapped to remove any accumulated dust and vacuumed if necessary (approx. every 6 months). We recommend replacing the filters with approx. every 2 years depending on environmental conditions.

- The coil fins are delicate so take care and only use a soft brush or vacuum cleaner to remove any dust that may have accumulated.
- The fan(s) and motors should not require servicing. Please contact your supplier if damaged.
- To replace the filter use reverse the removal instructions and ensure the lower front access panel is securely locked.
- Please note in the event of an engineer's visit, Smith's Environmental Products Ltd reserves the right to apply a call-out charge should the fault prove to be with the system or installation and not the heater appliance.

Fault finding

- Providing the power supply is switched on and the thermostat control is calling for heat the heater will switch on and off automatically with the central heating system.
- In the event of any difficulty, please contact us at +44 (0) 1245 324560.
- It will be helpful if you do not disconnect the heater from the central heating system.

Fault	Checking/Solution
The fan does not run on any speed setting	Check the power supply is switched ON Check the fuse in the fused spur Check the wiring at the fused spur Check the controller is switched on and calling for heat Check the central heating is switched ON Vent any trapped air from the system (with the heating system turned OFF)
No heat output	Check flow and return pipes are hot Vent any trapped air from the system (with the heating system turned OFF) Check the controller is switched on and calling for heat If a thermostat is fitted ensure it is calling for heat Balance the central heating system if installed on the same circuit as panel radiators and increase the circulating pump speed if required Increase the boiler water temperature

Accessories

- Air inlet filters for all models
- Universal Gateway Hub UG600 for use with internet App control

- For accessories or spares please refer to our price list, contact your supplier or Smith's Environmental Products Ltd.

Registering your product

- Thank you for purchasing a Smith's product. It has been designed and manufactured to the highest quality standards to ensure it gives you efficient and trouble-free service for many years. We are committed to achieving the highest standards and our faith is supported by a free parts and labor guarantee with every product.
- For more information on the warranty period for this product please visit our website **smithsep.co.uk/product-registration/**.
- This gives you the peace of mind that in the unlikely event of product failure, we will repair or replace the product completely free of charge provided the product has been installed, used, and maintained under the instructions. Your statutory rights are not affected by this warranty.
- It is important to register as soon as possible online at: **smithsep.co.uk/product-registration/**. This will ensure you will receive prompt and efficient service if your product requires attention within the warranty period. If you do not register your product, you will be required to produce proof of purchase before receiving service.
- For more details please visit our website: **SmithsEP.co.uk**.

SCAN HERE TO REGISTER YOUR PRODUCT

Disposal
As part of the policy of continuous product improvement, Smith's Environmental Products LTD reserves the right to alter specifications without prior notice. Products with this symbol (crossed out wheelie bin) cannot be disposed of as household waste. Old electrical and electronic equipment must be recycled at a facility capable of handling these products and their waste by-products. If you are purchasing replacement equipment your retailer may offer a 'take back' scheme or will be able to give details of the nearest approved authorized treatment facility. Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

- **WEEE Registered Code:** WEE/ED0093VW

After-sales and spares

- If you experience any problems with the use of your product, please contact our after-sales office at +44 (0) 1245 324560.
- For product information, customer services, or sales support call us at +44 (0) 1245 324900
- For the Republic of Ireland, contact MT Agencies on 01 864 3363
- **Sales: sales@SmithsEP.co.uk**
- **General information: info@SmithsEP.co.uk**
- **Smith's Environmental Products Ltd**

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- **SmithsEP.co.uk**
- @SmithsEP_UK
- #ThinkSmiths

Happy to help
Smith's Environmental Products Ltd is one of the leading manufacturers of heating and cooling products in the UK. We are committed to achieving the highest standards and our faith is supported by a free parts and labor guarantee with every product (see our website for more information). Our customer service is second to none and we are happy to offer any help and guidance that you might need.

Stockists
All products are available nationally from Builders' Merchants, Plumbers' Merchants, Heating Equipment Distributors and Kitchen Equipment Distributors. In the event of difficulty, please contact us or visit our website **SmithsEP.co.uk** for details of your nearest stockist.

Information and advice

- Full technical specifications and list prices are available to download from our website or in hard copy from our office. Also available on our website are price lists, individual product data sheets, installation & user guides, where to buy, who to contact, and a media center.
- Alternatively, contact our office from 9.00 am to 5.00 pm Monday to Friday.

As part of our commitment to continuous improvement, Smith's Environmental Products may change the specifications of its products without prior notification or public announcement. All descriptions, illustrations, drawings, and specifications in this publication present only general particulars and shall not form part of any contract. All dimensions are in mm unless otherwise stated. Please visit the website for the most up-to-date information.

- To view the full product information download the datasheet at: **www.SmithsEP.co.uk**.

- For product information, customer services, or sales support call us at +44 (0) 1245 324900

- For the Republic of Ireland, contact MT Agencies on 01 864 3363

- **Sales: sales@SmithsEP.co.uk**

- **General information: info@SmithsEP.co.uk**

- **Smith's Environmental Products Ltd**

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- **SmithsEP.co.uk**

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Documents / Resources

Caspian® - EC Variants with Smart Controls ⓢmith's Installation, commissioning and user manual 60 | 90 | 120 | 150 | 180 EC Series Fan Convectors UM | FF | SL | TT | EXT	**Smith s 180 EC Series Fan Convectors Caspian® EC Variants with Smart Controls** [pdf] User Manual 60, 90, 120, 150, 180 EC Series Fan Convectors, 180 EC Series Fan Convectors Caspian EC Variants with Smart Controls, 180 EC Series Fan Convectors, Caspian EC Variants with Smart Controls, EC Variants with Smart Controls, Variants with Smart Controls, with Smart Controls, Smart Controls, Controls

References

- ⟳ **Connected-Solution**

- 🌐 **saluslegal.com**

- **User Manual**