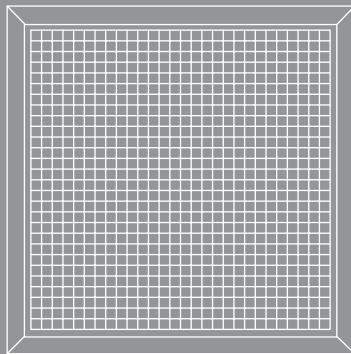


Caspian® Skyline CT60



Installation, commissioning
and user manual



Ceiling Level Fan Convector

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Introduction

This heater is designed to be installed into suspended T-bar and plasterboard ceilings (The minimum height of the void into which the unit will be installed should be a minimum of 250mm). The weight of the heater is 19Kg. The fixing means for attachment to the ceiling such as hooks or other devices shall be fixed with sufficient strength to withstand 4 times the weight of the ceiling heater.

User Information

This heater must not be installed in wet rooms or other high humidity areas.

This heater is 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/in²).

Pipe connections are 22mm and either pipe may be used as flow or return.

This heater is 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 completion of the installation. This heater must be earthed.

It is recommended that this heater is wired via a remote room thermostat.

To avoid the possibility of vibration this heater must be fitted to a flat even surface.

This heater is fitted with a 35°C Low Limit Stat (L.T.C.).

To conform to Building Regulations Part L (Part J in Scotland), a remote room thermostat can be used in conjunction with this heater. Refer to the instructions supplied with the thermostat.

Please note the guarantee may be invalidated if this product is not installed and used in accordance with these instructions.

For further details please contact our Technical Support on 01245 324560.

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 Skyline CT60 EC

Product:
Ceiling mounted fan convector

Conform to the following directives:
Low Voltage Directive 2014/35/EU / Electrical Equipment (Safety) Regulations 2016
Safety of household electrical appliances:
EN 60335-2-80:2003, +A1:04+A2:09
EN 60335-1:2012/AC:14+A11:14

Electromagnetic compatibility (EMC) / Electromagnetic Compatibility Regulations 2016
EN 55014-1:2006 inc.A1:2009 & A2:2011
EN61000-6-3 :2007
EN61000-3-2:2014
EN61000-3-3:2013

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

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

Prior to installation, read these installation and operating instructions. The installation and operation should also be in accordance with national regulations and accepted codes of good practice.



This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or 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.

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 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. 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 periodically.

The appliance should not be electrically supplied if there is water on parts not intended to be wet.



4. 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 temperature is higher than 60°C.



5. 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, vapour or gas) (EN60335-2-51);
- For other than intended use.

6. 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, checking for free inspection.

The maximum ambient temperature at which the appliance is to be used is 40°C (EN60335-2-51).



7. Electric connection

IMPORTANT: Connection to the power supply must be effected by means of a fixed power cable which is fitted with a plug-type connection or a two pole isolating switch with a minimum contact opening of 3 mm.

Electrical connection must be carried out by a qualified electrician and in accordance with local regulations and both data on the name-plate and the appropriate diagram inside the terminal box cover.

Follow all safety standards.

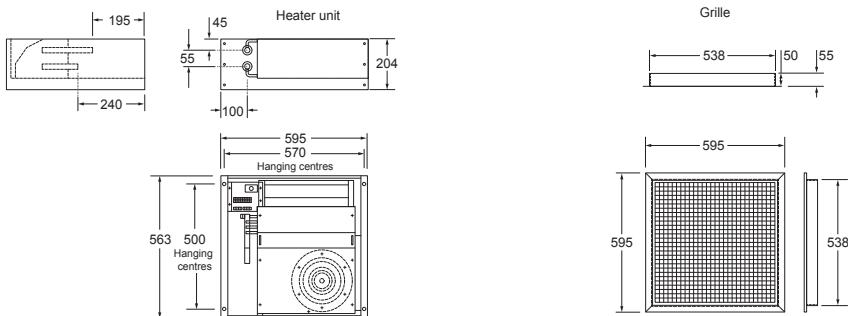
8. All electrical work should be carried out in accordance with current IEEE regulations; we recommend the appliance is protected by a Residual Current Device (RCD or Ground-Fault Circuit-Interrupter) with a rated residual operating current not exceeding 30mA.
9. Prior to any modification being made to the equipment, it must be agreed with and authorised by the manufacturer. Original spare parts and accessories authorised by the manufacturer are integral part contributing to the safety of the equipment and of the machines. The use of non original components or accessories may endanger the safety and causes the termination of the warranty. Safe operation is only assured for the applications and conditions described in Application of this manual.

Non-observance of the safety instructions results in the loss of any claims to damages.

The indicated limit values are binding and cannot be exceeded for any reason whatsoever.

KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE.

Product dimensions

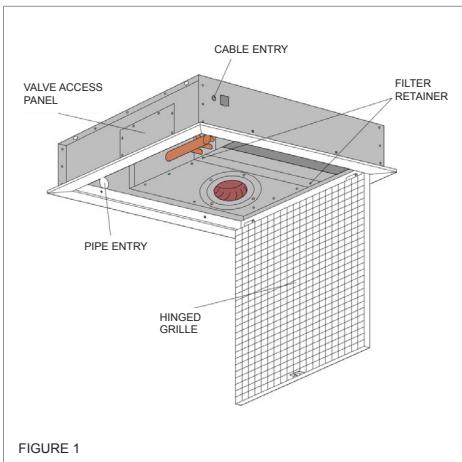


Product performance

Heat output

Heat Output at 80°			Heat Output at 75°			Heat Output at 70°		
Low (kW)	Medium (kW)	High (kW)	Low (kW)	Medium (kW)	High (kW)	Low (kW)	Medium (kW)	High (kW)
3.1	4.1	5.1	2.7	3.7	4.6	2.3	3.2	4.1
Heat Output at 65°			Heat Output at 60°			Heat Output at 55°		
Low (kW)	Medium (kW)	High (kW)	Low (kW)	Medium (kW)	High (kW)	Low (kW)	Medium (kW)	High (kW)
2.3	2.9	3.6	2.2	2.6	3.1	1.5	2.0	2.6
Heat Output at 50°			Heat Output at 45°			Heat Output at 40°		
Low (kW)	Medium (kW)	High (kW)	Low (kW)	Medium (kW)	High (kW)	Low (kW)	Medium (kW)	High (kW)
0.8	1.4	2.1	0.5	0.9	1.3	0.2	0.4	0.5
Flow & return connections		Total Power Consumption				Sound Levels		
Flow & return connections	Fused spur	Low (Watts)	Medium (Watts)	High (Watts)	Water Capacity (Litres)	High (dBA)	Medium (dBA)	Low (dBA)
22mm	3A	8	24	40	0.75	48	40	34

Preparation



The following items should be included in the carton:

- Caspian Skyline CT60 EC unit.
- Grille.
- Installation & User Guide.
- X4 No 8 Screws.

Other items required for a successful installation:

- Three core mains cable.
- Isolating valves (Failure to fit isolating valves may mean that the product is not serviceable in the event of failure).
- Air Vent/ Bleed valve.
- Suitable mounting hardware (Such as chains, threaded rod etc).

Accessories including replacement air filters are available (See page 10).

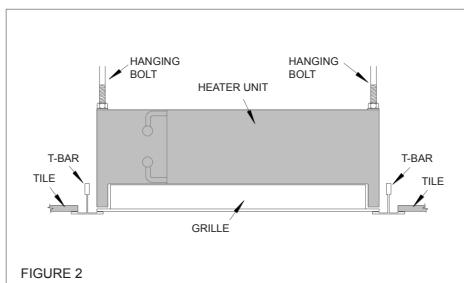
In the event of any items missing or visible damage, please contact us on 01245 324560, before continuing with the installation.

Installation

This heater should be mounted at a minimum height of 1.8m (To the underside of the grille) and a maximum height 4m.

1. Installation into a suspended T Bar ceiling

1. Choose the position in the ceiling grid that the heater is to be installed and remove the chosen ceiling tile, as well as any surrounding tiles to provide adequate access during installation.
2. Ensure suitable means of support such as threaded rods or chains are used and fixed into place directly above the chosen grid position.
3. Lift the heater through the T bar grid into the void and securely attach the supports to the heater.
4. Lift the grille into the grid and adjust the heater so that they meet together.
5. Drill four holes (two in each side) 3mm (1/8") holes and secure with the provided screws (See fig. 4). Once secured the grille can be opened and closed by pushing against the grille on the side with the closure (Once to open, Once again to close), care should be taken not to bend the grille.
- 6) Proceed to page 8 for plumbing and electrical connection.



2. Installation into a plasterboard ceiling

Note: Access to the ceiling void, other than the heater cut-out must be available for installation for plumbing, electrical connection and maintenance.

1. Cut a square hole 575mm x 575mm into the plasterboard and ensure that any obstructions are a minimum of 210mm away from the heater.
2. Ensure suitable means of support such as threaded rods or chains are used and fixed into place directly above the chosen installation cut-out.
- 3) Lift the heater through the cut-out into the void and securely attach the supports to the heater.
- 4) Lift the grille into the cut-out and adjust the heater so that they meet together.
- 5) Drill four holes 3mm (1/8") holes (two in each side) and secure with the provided screws (see figure 4). Once secured the grille can be open and closed by pushing against the grille on the side with the closure (Once to open, Once again to close), care should be taken not to bend the grille.
- 6) Proceed to page 8 for plumbing and electrical connection.

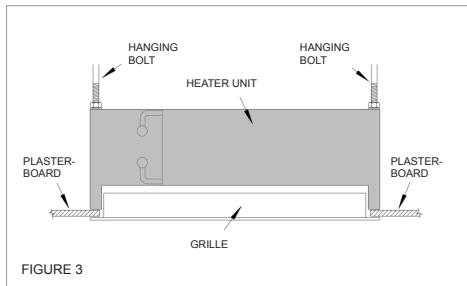


FIGURE 3

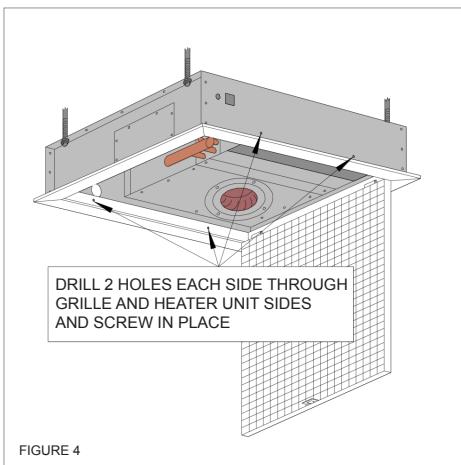


FIGURE 4

3. Plumbing Connection

Pipe connections to the heat exchanger should be made using 22mm pipe and fittings, Isolating valves should be fitted to ensure the product is serviceable in the future. It is advisable to use flexible hoses to reduce vibration (available as an accessory, see page 10). An air vent must also be fitted to the system pipework above the highest point of the product.

Pipe entry should be made through the entry holes in the end of the heater (shown in fig 1). Isolating/Service valves may be installed within the heater casing, a removable panel in the side of the heater allows valves to be adjusted however additional access to the void space must be available (in a T-Bar ceiling an adjacent removable tile would suffice however in plasterboard ceiling access would have to be considered before installation).

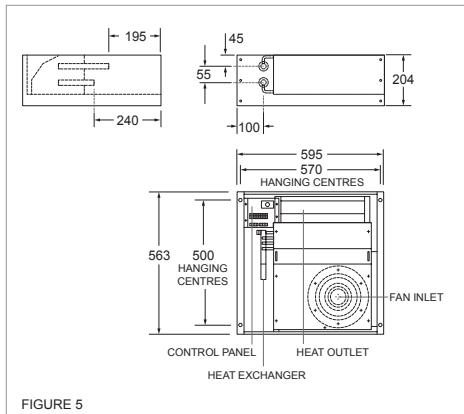
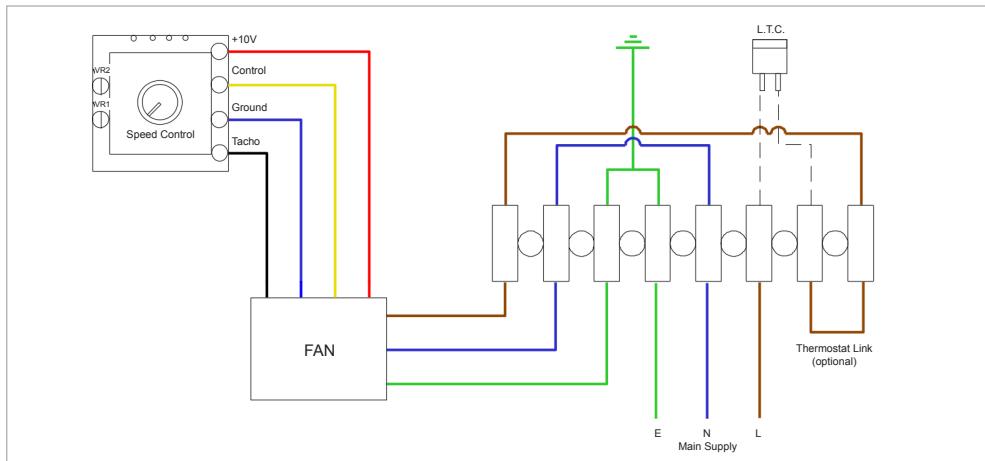


FIGURE 5

4. Electrical Connection

Unscrew and remove the electrical panel, connect the fused spur to the terminal block in the unit using suitable 3 core cable (see wiring diagram below).



Commissioning

Ensure the central heating system is ON. Providing the water temperature in the central heating system is more than 35°C and the thermostat (if fitted) is calling for heat the product will switch on.

1. Turn on the electrical supply to the unit at the fused spur.
2. Turn on the central heating system.
3. Turn the thermostat control (if fitted) to the maximum.
4. If the heater is installed on the same circuit as panel radiators balance the central heating system.
5. Adjust the fan speed to the preferred setting by adjusting the controller (turn left to reduce speed and right to increase)
6. If the installation is working correctly remember to reset the thermostat control (if fitted) to its normal setting.

If your heater does not operate refer to "Fault Finding" on page 10.

Maintenance

Warning! Isolate from the electrical supply before servicing.

The heater is fitted with a replaceable air filter. To remove the filter, lower the hinged grille, loosen the two screws securing the filter retainer (See Figure 1), slide the across to give access and remove the filter, replacing the air filter is the reverse of removing it.

The filter can be gently tapped or vacuumed to remove any accumulated dust if necessary (approx. every 6 months).

We recommend replacing the filters approx. every 2 years depending on environmental condition.

The filter is not covered by Smith's 5 Year Guarantee.

The heat exchanger should be cleaned with a soft brush or vacuum to remove any dust that may have accumulated, care must be taken not to damage the delicate heat exchanger fins.

The fan(s) and motors should not require servicing. Please contact your supplier if damaged.

Please note in the event of an engineer's visit, Smith's Environmental Products Ltd reserve the rights to apply a call-out charge should the fault prove to be with the system or installation and not the heater appliance.

Fault finding

In the event of any difficulty, please contact us on +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	<p>Check the power supply is switched ON</p> <p>Check the fuse in the fused spur</p> <p>Check the wiring at the fused spur</p>
No heat output	<p>Vent any trapped air from the system (with the heating system turned OFF)</p> <p>Check the central heating is switched ON</p> <p>Vent any trapped air from the system (with the heating system turned OFF)</p> <p>If a thermostat is fitted ensure it is calling for heat</p> <p>Balance the central heating system if installed on the same circuit as panel radiators and increase the circulating pump speed if required</p> <p>Increase the boiler water temperature</p>

Optional Accessories

Optional accessories are available to offer additional control or functionally not offered by the heater in its standard configuration.

Electrical Accessories	
External Control Harness Allows for the standard unit controller to be relocated externally from the heater.	EXTCH
Adjustable low temperature cut-out This enables the end user to precisely select the temperature at which the fans will switch on when combined with different heat sources.	UVCALTC T3
Miscellaneous Accessories	
Caspian 22mm Flexible Hoses	CAS22FH
Replacement air filters	

For accessories or spares please contact either 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 labour 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 providing the product has been installed, used and maintained in accordance with 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 prior to receiving service.

For more details please visit our website: SmithsEP.co.uk

Disposal

As part of the policy of continuous product improvement, Smith's Environmental Products LTD reserves the right to alter specification without prior notice.

Products with this symbol (crossed out wheelie bin) cannot be disposed 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 authorised 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



Approved CQS ISO 9001:2015



ISO 14001

After sales

If you experience any problems with the use of your product, please contact our after-sales office +44 (0) 1245 324560.

For product information, customer services or sales support call us on +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
Blackall Industrial Estate, South Woodham Ferrers,
Chelmsford, Essex CM3 5UW

SmithsEP.co.uk

@SmithsEP_UK

#ThinkSmiths

SCAN HERE TO REGISTER
YOUR PRODUCT





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 labour 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 centre.

Alternatively contact our office 9.00am to 5.00pm 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 on **+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

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Issue 001 | 85-0078 | December 2025