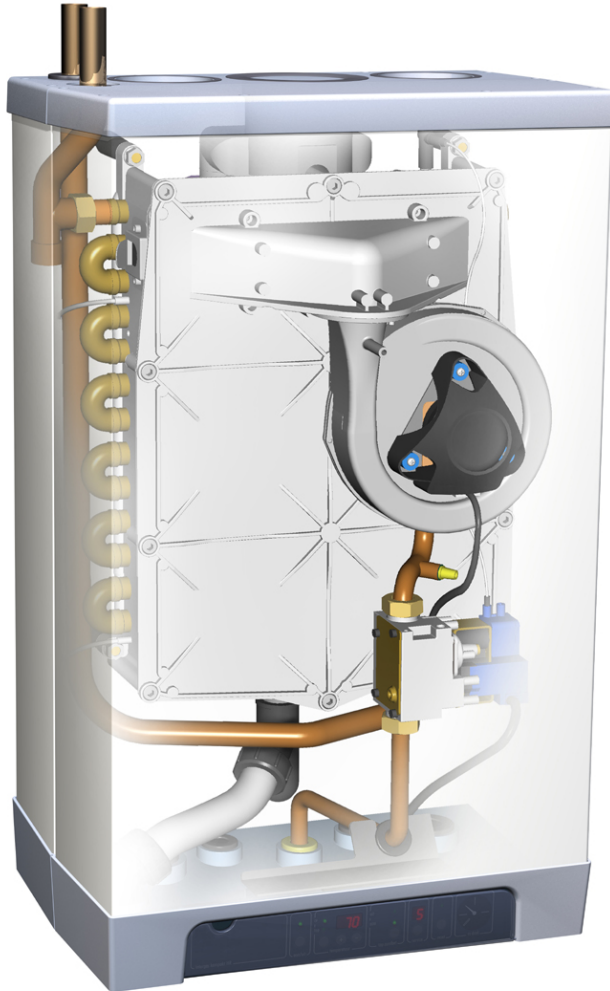


# Atmos InterOpen



## User Operating Instructions for HE22

(GC 41-249-06)

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The information provided applies to the product in the standard model. Atmos Heating Systems can therefore not be held liable for any damage resulting from the product specifications that deviate from the standard model.

The information provided has been compiled with the utmost care. However, Atmos Heating Systems cannot be held liable for any faults in the information nor for the consequences thereof.

Atmos Heating Systems cannot be held liable for any damage resulting from the activities carried out by third parties.

To be changed without prior notice

## Building Regulations and the Benchmark Checklist

*Atmos Heating Systems is a licensed member of the Benchmark Scheme which aims to improve the standards of installation and commissioning of domestic heating and hot water systems in the UK and to encourage regular servicing to optimise safety, efficiency and performance.*

*Benchmark is managed and promoted by the Heating and Hotwater Industry Council. For more information visit [www.centralheating.co.uk](http://www.centralheating.co.uk)*

*Please ensure that the installer has fully completed the Benchmark Checklist on the inside back pages of the installation instructions supplied with the product and that you have signed it to say that you have received a full and clear explanation of its operation. The installer is legally required to complete a commissioning checklist as a means of complying with the appropriate Building Regulations (England and Wales).*

*All installations must be notified to Local Area Building Control either directly or through a Competent Persons Scheme. A Building Regulations Compliance Certificate will then be issued to the customer who should, on receipt, write the Notification Number on the Benchmark Checklist.*

*This product should be serviced regularly to optimise its safety, efficiency and performance. The service engineer should complete the relevant Service Record on the Benchmark Checklist after each service. The Benchmark Checklist may be required in the event of any warranty work and as supporting documentation relating to home improvements in the optional documents section of the Home Information Pack.*

**IF YOU SMELL GAS, PLEASE CONTACT THE NATIONAL GAS EMERGENCY SERVICE ON TEL 0800 111999.**



# User Operating Instructions for Atmos InterOpen HE22 Condensing Boiler

First ask your installer to instruct you thoroughly about filling, de-aerating and general use of the appliance and the total installation.

## General operation

The Atmos InterOpen wall-mounted gas boiler is suitable for open vent systems with a header tank. The appliance is designed for delivering heat to the water of a central heating system and heating hot water via an indirect tank. The Atmos InterOpen wall-mounted gas appliance is a modulating high efficiency (Sedbuk B) boiler. This means that the power is adjusted to the heat demand.

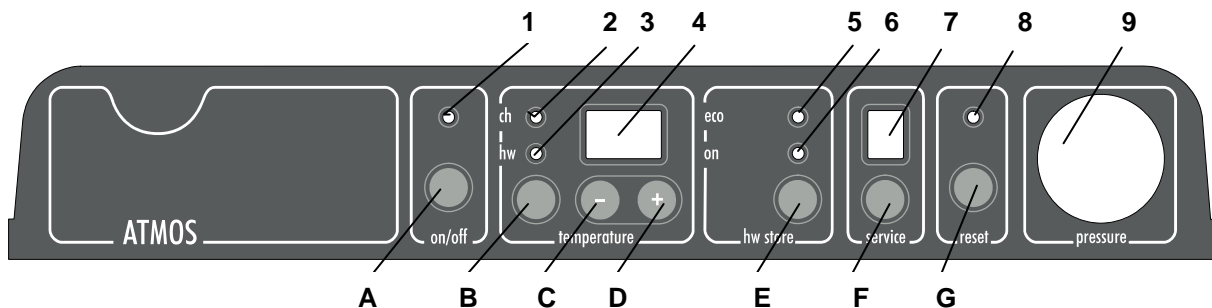
In the aluminium heat exchanger is an integrated copper circuit.

The appliance has been provided with an electronic burner controller that controls the fan with the heat demand, opens the gas valve and ignites the burner, continuously monitors the flame and controls it dependent on the power required.

## Central Heating (CH) operation & Tank (if applicable)

The controller adjusts the fan speed, and hence the heating power, according to the set CH supply water temperature, the latter being displayed on the temperature display.

The appliance has a pump output. If the external pump (not supplied as part of the HE22 appliance) is connected to this output, a pump overrun time of 1 minute is provided (factory setting, but can be adjusted) to dissipate the heat. Also, the pump will automatically run once every 24 hours to prevent it from getting stuck (if there is no heat demand).



## Displays

- |                        |                                |
|------------------------|--------------------------------|
| 1. On/Off LED          | 6. Keep hot On (contin) LED ** |
| 2. CH LED              | 7. Service display             |
| 3. Hot water LED **    | 8. Fault LED                   |
| 4. Temperature display | 9. CH pressure gauge **        |
| 5. Eco mode LED **     |                                |

## Controls

- |                             |                       |
|-----------------------------|-----------------------|
| A. On/Off button            | E. Keep hot button ** |
| B. CH/HW Temperature button | F. Service button     |
| C. - button                 | G. Reset button       |
| D. + button                 |                       |

## Operating conditions on the service display (7):

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Off (frost protection active)  | <input type="checkbox"/> 2 Self-test     | <input type="checkbox"/> 5 CH operation                           |
| <input type="checkbox"/> Stand-by                       | <input type="checkbox"/> 3 Fan           | <input type="checkbox"/> 6 Domestic hot water operation **        |
| <input type="checkbox"/> Pump overrun CH                | <input type="checkbox"/> 4 Ignite burner | <input type="checkbox"/> 7 Heating the appliance (heat exchanger) |
| <input type="checkbox"/> 7 Required temperature reached |  |   |

\*\*Note that controls and displays marked in this way are not applicable for the HE22 appliance.

When the red fault LED (above the Reset button) flashes on, the burner controller has detected a fault. In the Temperature display(4), a fault code appears.

### Adjustment of CH supply temperature

Press the *Temperature* button (B) for approx 2 secs until the LED CH and the display start to flash (the display shows the set temperature). Change the temperature using the "+" and "-" buttons, adjustable between 30°C and 90°C.

Press the *Reset* button to store the changes (or press the *On/Off* button to close the menu without storing the changes).

Note: After 30 seconds of no action, the changes will automatically be stored and the controller will return to normal.

Note: If an Open Therm thermostat is used, or if weather dependent control is used, the CH setting must not be adjusted manually.

### Commissioning

The appliance should be installed and commissioned by an authorised installer. Check the following:-

**Never connect the appliance to the mains voltage without filling and de-aerating the appliance and system.**

1. Confirm that the appliance and system have been filled and de-aerated.
2. Check that the electrical supply is switched on and the gas supply is on.
3. Set the room thermostat lower than the room temperature. Assuming that the appliance is in standby (horizontal mark on the *service* display and remaining functions are off), switch on the appliance with the *on/off* button on the display.
4. Set the room thermostat higher than the room temperature. The appliance will start CH operation (5 on the *service* display), heating the CH supply water to the set temperature (see CH operation).

### Frost protection

In order to avoid freezing of the condensate discharge pipe, the appliance should be installed in a frost-free room. In order to avoid freezing of the appliance (heat exchanger), it has an appliance frost protection. When the temperature of the heat exchanger drops to 5°C, the burner will be activated and the pump will start running until the temperature of the heat exchanger reaches 10°C. When the system (or a part of it) can freeze, a frost thermostat should be installed in the area to be protected. Connect this according to the wiring diagram (see also the Installation instructions).

#### Note!

The external frost thermostat is not active when the appliance has been switched off at the operating panel or when the mains voltage has been interrupted.

### Faults

If one of the following simple faults occur, they may be remedied as follows. In case of recurrence, or other faults, please contact your installer.

**The CH System does not reach the correct temperature:-**

- Increase the temperature on the room thermostat.
- Open the radiator valves.
- Increase the CH water temperature by means of the *Temperature* button (B) and the + and – button on the display (see Adjustment).
- De-aerate the system with the manual air vents on the radiators.

**The fault LED above the *Reset* button flashes on and the *Temperature* display shows fault code 1:-**

The boiler is getting too hot, due to insufficient circulation.

- De-aerate the system with the manual air vents on the radiators. After remedying the cause, press the *Reset* button for 5 secs and the appliance will start-up again.

### System Shutdown

**Drain the appliance and the system when the mains voltage has been disconnected and there is a chance of freezing.**

1. Drain the appliance using the drain valve.
2. Drain the system at the lowest point.

### Servicing the appliance

The appliance, the installation, the flue discharge and air supply should be serviced every year by a qualified Service Engineer. The appliance can be cleaned with a damp cloth. Do not use an aggressive or abrasive cleaner.

### Warranty

The warranty period for the heat exchanger is 10 years. The period for other parts is 2 years from the date of invoice or 12 months from installation, whichever has the later expiry date. The warranty covers the replacement of faulty parts and labour, excluding the ignition probe, ionisation pin, glass fuse and de-aerator. The execution of the Warranty is the responsibility of the installer from whom you purchased the appliance. See also the Warranty card. Note that part of it must be completed and returned.