

**RAVENHEAT**

*Innovating new technology into gas boilers*



**CSI 120 (T)  
HE 42 (T)  
Low Nox**

**HIGH EFFICIENCY  
CONDENSING BOILERS**



**High domestic hot water flow rate**



## Introducing the CSI 120 & HE 42

The CSI Low Nox condensing range of combi boilers have been designed not just for your central heating needs, they also offer high domestic hot water flow rates. There are 2 models namely: CSI 120 (T) Low Nox with an output from 5kW to 32kW domestic hot water flow rate of 13.2 litres a minute @ 35° rise, or the more powerful HE 42 (T) Low Nox with an output of 8kW to 42kW, and a domestic flow rate of 17.3 litres a minute at 35° rise. By buying the CSI Low Nox model boiler you are choosing a product with extremely low levels of Nox well below UK standards. We believe this is one of the smallest most competitive boilers on the market. It measures only 700 x 400 x 300mm, offers a high output and not only that, it comes with a 3 year guarantee.

These premix boilers feature a fully modulating burner and fan, along with the standard Ravenheat neat integral isolation valves and a cylindrical heat exchanger. At over 90% efficiency they have a SEDBUK Band A rating.

### Key Features

- 90.6% efficiency – Sedbuk Band A rating
- Small and compact
- Easy to install
- 3 Year guarantee
- Fully modulating burner and fan
- Standard neat valve connections
- Cylindrical Low Nox heat exchanger
- Available in timer and non-timer versions
- Valves more compact and colour coded
- Easy access to all major components for servicing

### Optional External Controls Multi-fit Wireless Timer / Thermostat

The RHVT 1 and RVHT 2 wireless 7 day programmable room timer/thermostats compliment our boiler range. Easy to install, they have 7 day programmable settings and a digital display and will enhance any domestic gas boiler through controlling the temperature more economically.

2 Models are available: RVHT 1 for the installation of receiver close to boiler, or RVHT 2 for integrated receiver in the boiler. Both models receivers come with built in manual override and LED display. The RVHT 2 easily integrates into almost any manufacturers' combi boiler and is the same size as a standard boiler time clock.

Both models are available from your local plumbing and heating merchant. For more information or a stockist please visit our website or request a brochure by e-mail: [sales@ravenheat.co.uk](mailto:sales@ravenheat.co.uk)

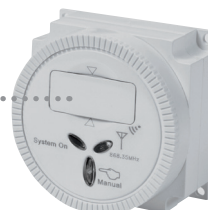
(T) Timer Model



Non timer control panel



Integral RVHT 2 Set (Optional)



Receiver



Transmitter

Wall Mounted RVHT 1 Set



Receiver



Transmitter

## Flue Options

The new CSI 120 & HE 42 Low Nox can be fitted with either a 100mm standard (concentric), a 125mm flue duct or a twin (eccentric) flue duct, which can be installed either vertical or horizontal, depending on the customer's requirements.

A one metre standard horizontal flue kit is supplied separately; this can extend to 8 metres if required, or 13 metres vertical (maximum without bends). Alternatively there is a 125mm (concentric) flue system that allows greater flexibility (26 metres). Eccentric flue ducting is ideal for covering long distances and when used with a special Ravenheat connector this can be extended up to 43 metres air intake / exhaust.



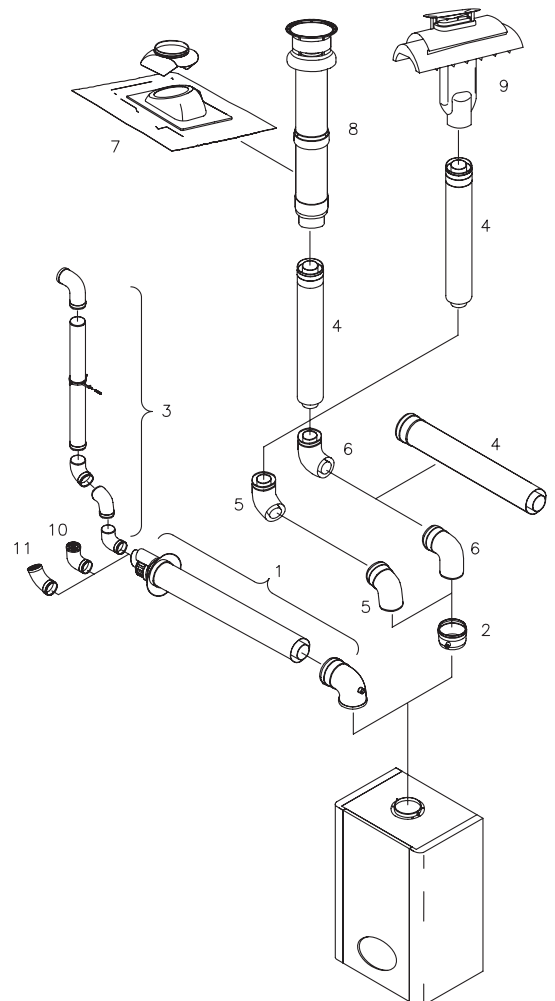
Part	Description Flue 60/100	WH Part No
1	1 metre horizontal flue kit	PR5023016
2	Straight flue header/Sample Point	PR5094110A
3	1 metre high plume kit	TER110101
4	1 metre flue extension	PRFE
5	45° in line flue bend	PR45FBI
6	90° in line flue bend	PR90FBI
7	Flashing sleeve/plate	TEG060050
8	1 metre vertical terminal	TER110200
9	Combi ridge terminal kit	TER090100
10	90° flue exhaust deflection bend	CUR110100
11	45° flue exhaust deflection bend	CUR110050

### Installer Benefits:

- Easy to install
- Easily accessible controls under lift up flap
- Easy to access all major components for servicing
- Valves are more compact & sit close to the wall
- Valves colour coded for quick and easy installation
- All plastic push fit flue

### Householder Benefits:

- 3 Year guarantee
- Over 90% Sedbuk efficiency
- Low cost hot water
- 100% Function tested
- Reduced heating bills by up to 35%
- Built in automatic bypass
- Frost protection
- Optional Digital timer 7 day programmer
- Available in Nat gas or LPG (LPG at extra cost)



Alternative systems (twin or 125mm) are available for longer flue distance.

## Technical Specification



MODEL:			CSI 120 Low Nox (T)	HE 42 Low Nox (T)
<b>CENTRAL HEATING MAX-MIN NETT</b>				
OUTPUT MAX-MIN				
ADJUSTABLE	Condensing Mode	kW	28.8 – 5.7	35.5 – 7.9
<b>DOMESTIC HOT WATER</b>				
OUTPUT MAX-MIN				
ADJUSTABLE	Condensing Mode	kW	32.2 – 5.0	41.5 – 7.9
<b>DOMESTIC HOT WATER</b>				
FLOW RATE RAISED	30°C	l/Min	15.4	20.1
6 °C INLET TEMPERATURE	35°C	l/Min	13.2	17.3
MAX NET EFFICIENCY			115%	115%
EXPANSION VESSEL			1	8/1
MAXIMUM CENTRAL HEATING TEMPERATURE			°C	80°
<b>CONNECTION</b>				
HEATING FLOW & RETURN COMPRESSION			mm	22
GAS CONNECTION COMPRESSION			mm	15
DOMESTIC SUPPLY (COLD) COMPRESSION			mm	15
DOMESTIC SUPPLY (HOT) COMPRESSION			mm	15
CONDENSING PIPE ¾ PUSH FIT OVERFLOW PIPE				
FLUE SIZE			mm	100
ELECTRICAL MAINS SUPPLY				230V 50Hz FUSED 3amp
SEDBUK	Nat Gas	<b>A</b>	BAND A	%
	LPG	<b>A</b>	BAND A	%
				90.6
				92.6
NOX CLASS (Lowest possible level)			5	5
AVAILABLE WITH OR WITHOUT TIMER				

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## Technical After Sales Service

Ravenheat have a technical helpline at its central headquarters in Leeds. Service engineers or their customers have the satisfaction of knowing they will receive advice, and the knowledge that one of Ravenheat's own technicians is on hand should an on-site visit be required. Ravenheat only used their own highly qualified technicians thereby ensuring the highest quality and most reliable customer care.

### Conditions of 3 Year Warranty:

Boiler must be correctly installed. Boiler must be commissioned by a Gas Safe Registered Engineer. Boiler must be registered with Ravenheat upon purchase (so 3 year warranty can be activated, Band A models only). Boiler must be correctly maintained and serviced by a qualified, competent person. For any other information please refer to user guide and installation instructions.



**RAVENHEAT**



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