

Heating Hot water Renewables



GAS BOILERS

CLAS HE

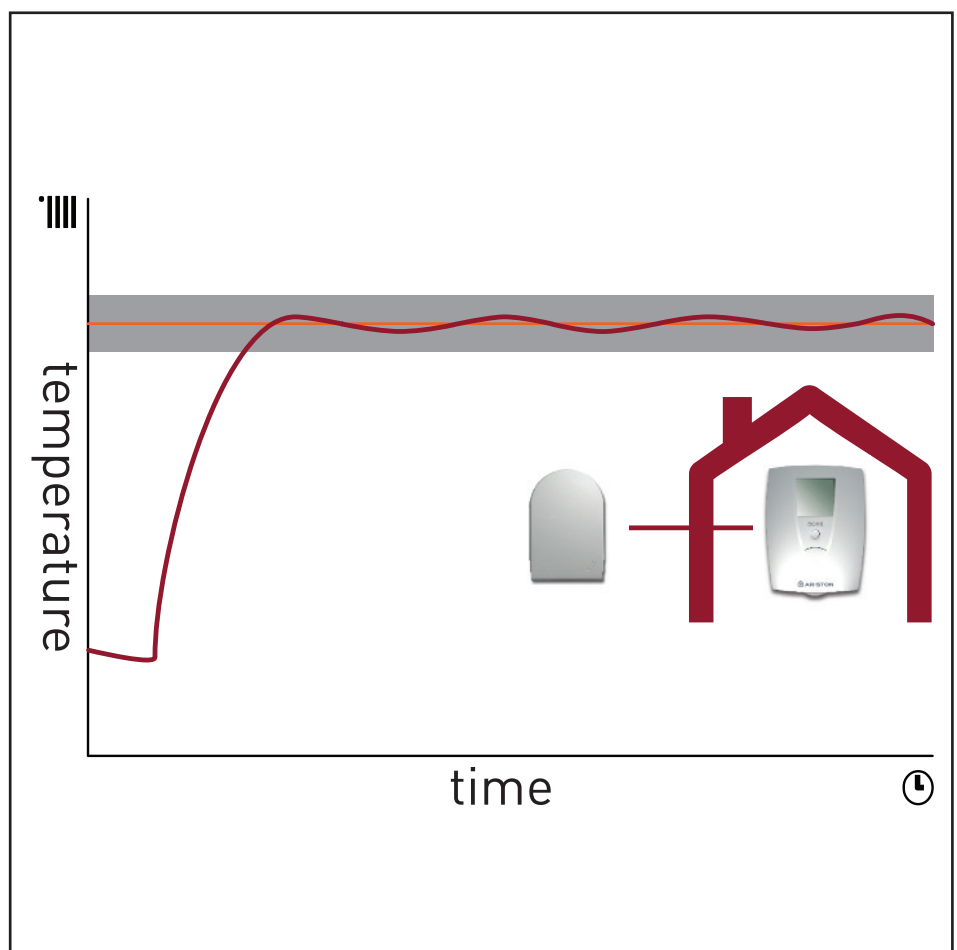
WALL-HUNG HIGH EFFICIENCY
GAS BOILERS



Weather Compensation -



Download a QR Code scanner for your smart phone and scan the code below to discover more about Ariston's range of intelligent controls.



Intelligent controls

The advanced **AUTO** function ensures intelligent management of the room temperature whilst guaranteeing maximum energy efficiency and offering energy savings.

By pressing the **AUTO** button on the **CLAS HE** control panel, the boiler will automatically choose the ideal temperature for the central heating circuit by gradually increasing the temperature of the system water until the room reaches the set temperature, whilst guaranteeing no excessive peaks in the flow temperature.

When used in conjunction with the extensive range of controls, the AUTO function ensures greater levels of comfort and savings are achieved.

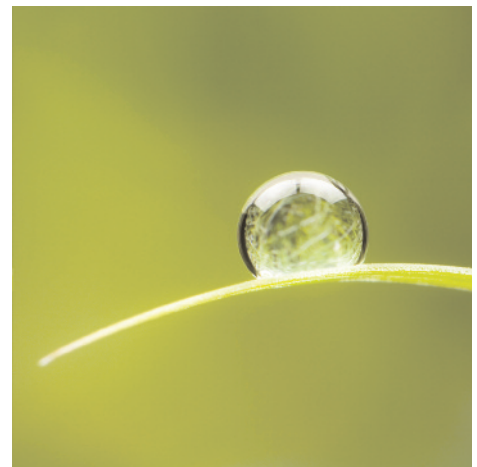
With the **AUTO** function activated and by fitting an outdoor sensor, with the modulating room sensor, **savings in excess of 10%** can be achieved over a standard condensing boiler without similar controls.

As Easy as **Ariston Boiler & Controls**

Simple controls

There is an extensive selection of easy to use controls available for the CLAS HE range. The controls are available as both wired and wireless (allowing installation without the need for a qualified electrician).

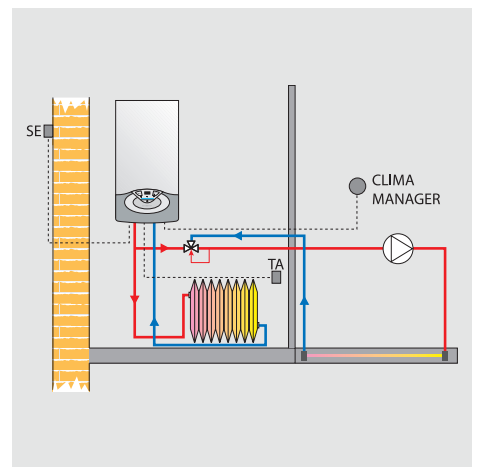
These, in conjunction with the AUTO function, will enable the boiler to work at its most efficient to achieve the desired room temperature.



Multi-Zone Systems

With CLAS HE and the range of temperature controls available, Ariston make it easy to manage two temperature zones independently.

For example, should the heating system consist of an underfloor installation (low temperature) and a traditional radiator-type installation (high temperature) it is possible to control both zones independently with a Clima Manager and a room sensor.



Modulating Room Sensor



Clima Manager



Programmable Room Thermostat



Room Thermostat



Outdoor Sensor





WALL HUNG HIGH EFFICIENCY GAS COMBINATION BOILERS

- LOW NO_x
- AVAILABLE IN THREE OUTPUTS
- HIGH HOT WATER FLOW RATES
- SIMPLE MAINTENANCE WITH ACCESS FROM THE FRONT OF THE APPLIANCE
- COMPREHENSIVE RANGE OF WIRED AND WIRELESS CONTROLS
- UNIQUE 'AUTO' FUNCTION OPTIMISES EFFICIENCY OF BOILER AND SYSTEM
- AUTO-DIAGNOSTIC SYSTEM
- BUILT-IN MECHANICAL TIME CLOCK
- BUILT-IN AUTOMATIC BY-PASS
- COMFORT SWITCH (PRE-HEAT HOT WATER FUNCTION)
- INCLUDES CONNECTION KIT AND FILLING LOOP



COMPACT DIMENSIONS



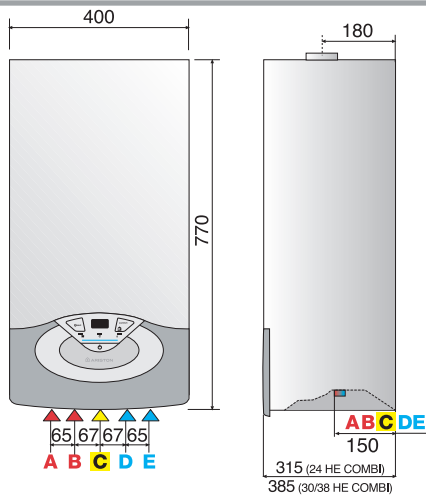
QUIET OPERATION



ENERGY EFFICIENT



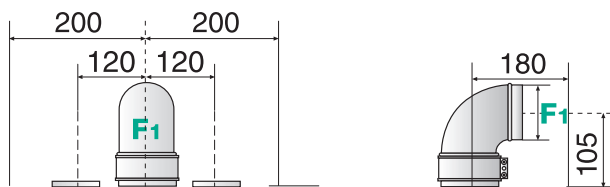
AUTO FUNCTION



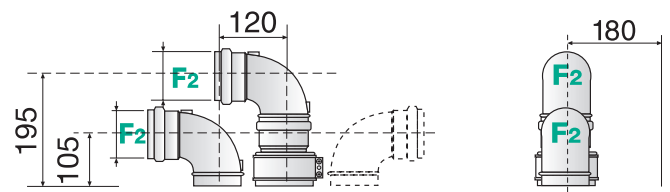
LEGEND

- A: Central heating flow 22mm compression
- B: Domestic hot water outlet 15mm compression
- C: Gas inlet 15mm compression (24 & 30FF)
22mm compression (38FF)
- D: Domestic hot water inlet 15mm compression
- E: Central heating return 22mm compression
- F: Flue (Ø mm)
F1: 60/100
F2: 80

Coaxial exhaust



Twin pipe exhaust





WALL HUNG HIGH EFFICIENCY GAS SYSTEM BOILERS

- LOW NO_x
- AVAILABLE IN THREE OUTPUTS
- AUTO-DIAGNOSTIC SYSTEM
- FAMILIAR LCD DISPLAY
- SIMPLE MAINTENANCE WITH ACCESS FROM THE FRONT OF THE APPLIANCE
- UNIQUE 'AUTO' FUNCTION OPTIMISES EFFICIENCY OF BOILER AND SYSTEM
- ANTI-FROST DEVICE
- BUILT IN AUTOMATIC BY-PASS
- RANGE OF WIRED AND WIRELESS CONTROLS
- LPG CONVERSION KIT AVAILABLE ON REQUEST



COMPACT DIMENSIONS



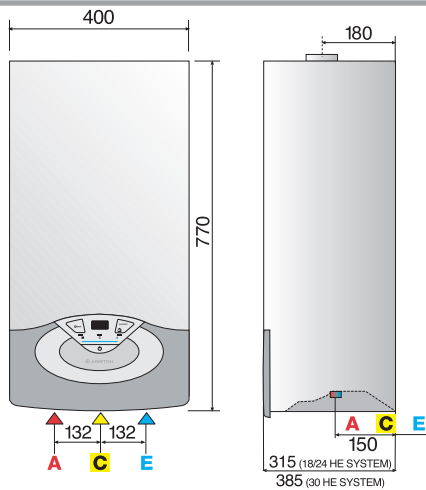
QUIET OPERATION



ENERGY EFFICIENT



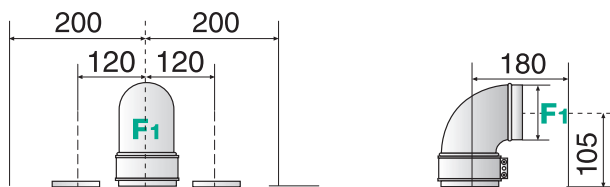
AUTO FUNCTION



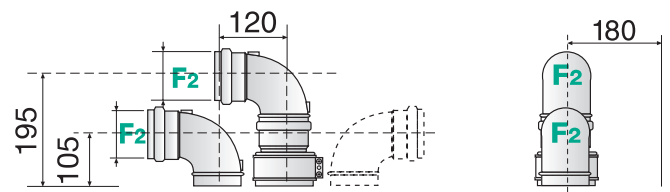
LEGEND

- A: Central heating flow 22mm compression
- C: Gas inlet 15mm compression
- D: Domestic hot water inlet 15mm compression
- E: Central heating return 22mm compression
- F: Flue (Ø mm)
- F1: 60/100
- F2: 80

Coaxial exhaust



Twin pipe exhaust





WALL HUNG HIGH EFFICIENCY GAS REGULAR BOILERS

- LOW NO_x
- AVAILABLE IN THREE OUTPUTS
- AUTO-DIAGNOSTIC SYSTEM
- FAMILIAR LCD DISPLAY
- SIMPLE MAINTENANCE WITH ACCESS FROM THE FRONT OF THE APPLIANCE
- TWO ZONE TEMPERATURE MANAGEMENT ALLOWS OPTIMISATION & EASY UPGRADE OF STANDARD SYSTEMS
- 240V SWITCHING
- ANTI-FROST DEVICE
- BUILT IN AUTOMATIC BY-PASS
- RANGE OF WIRED AND WIRELESS CONTROLS
- LPG CONVERSION KIT AVAILABLE ON REQUEST



COMPACT DIMENSIONS



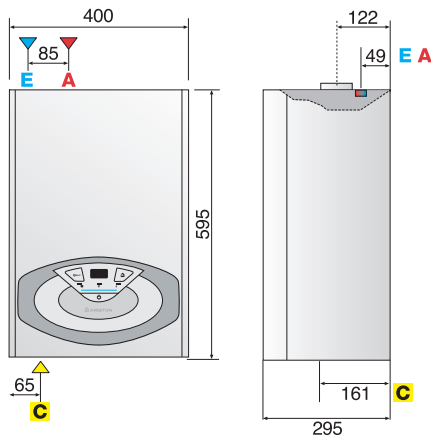
QUIET OPERATION



ENERGY EFFICIENT



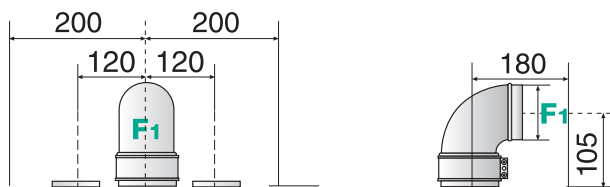
AUTO FUNCTION



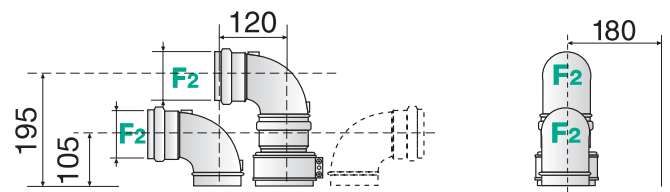
LEGEND

- A: Central heating flow 22mm compression
- C: Gas inlet 15mm compression
- D: Domestic hot water inlet 15mm compression
- E: Central heating return 22mm compression
- F: Flue (Ø mm)
- F1: 60/100
- F2: 80

Coaxial exhaust



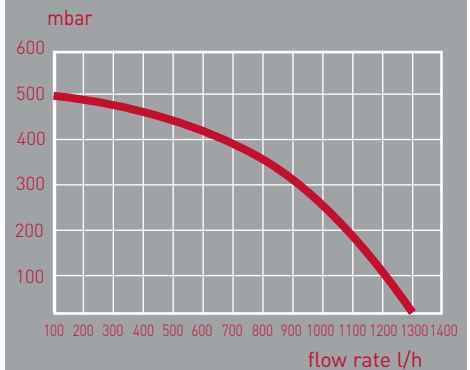
Twin pipe exhaust



Technical Data

		CLAS HE R 12 FF	CLAS HE R 18 FF	CLAS HE R 24 FF
EFFICIENCY				
SEDBUK Rating	Band	A	A	A
SAP efficiency (2005) Seasonal	%	90.2	90.4	90.4
SAP efficiency (2009) Annual	%	89.1	89.3	89.0
POWER & PERFORMANCE				
Heat input max.	kW-Btu/h	12.0 - 40,900	20.0 - 68,200	22.0 - 75,000
Heat input min.	kW-Btu/h	3.0 - 10,200	5.0 - 17,000	5.5 - 18,800
Heat output max. (C.H.)	kW-Btu/h	11.7 - 40,000	17.6 - 60,000	21.6 - 73,700
Heat output min.	kW-Btu/h	2.8 - 9,500	4.2 - 14,300	5.2 - 17,700
Central heating temp. max. (high temp.)	°C	82	82	82
Central heating temp. min. (high temp.)	°C	35	35	35
Central heating temp. max. (low temp.)	°C	45	45	45
Central heating temp. min. (low temp.)	°C	20	20	20
CHARACTERISTICS				
Minimum ambient temperature	°C	5	5	5
Servicing clearances - top/front/bottom	mm	250/450/300	250/450/300	250/450/300
Servicing clearances - left/right	mm	5/5	5/5	5/5
Zero compartment ventilation		Yes	Yes	Yes
Weight	kg	23	23	23
NOx	mg/kWh	30	23	28
ELECTRICAL DATA				
Electrical supply	V/Hz	230/50	230/50	230/50
Power consumption	W	87	105	114
Protection grade of electrical system	IP	X5D	X5D	X5D
Internal fuse rating		2A Fast Fuse	2A Fast Fuse	2A Fast Fuse
MODEL		12 FF	18 FF	24 FF
PRODUCT CODE		3665086	3665087	3665088

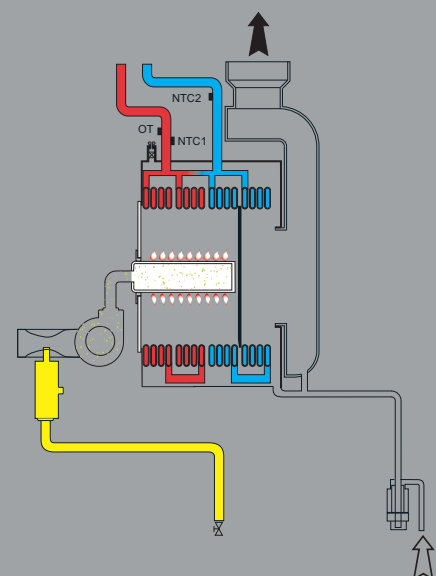
Graph of boiler residual head $\Delta T 20^{\circ}\text{C}$



**SEDBUK
Band A**

**NOx
Class 5**

ROOM SEALED FAN FLUE



Accessories

	Code
HYDRAULIC ACCESSORIES	
Sealed System Kit	3678458
WIRED ACCESSORIES	
On/Off Room Thermostat	3318238
Outdoor Sensor	3318232
WIRELESS ACCESSORIES	
Twin Channel Digital Programmer	3318413

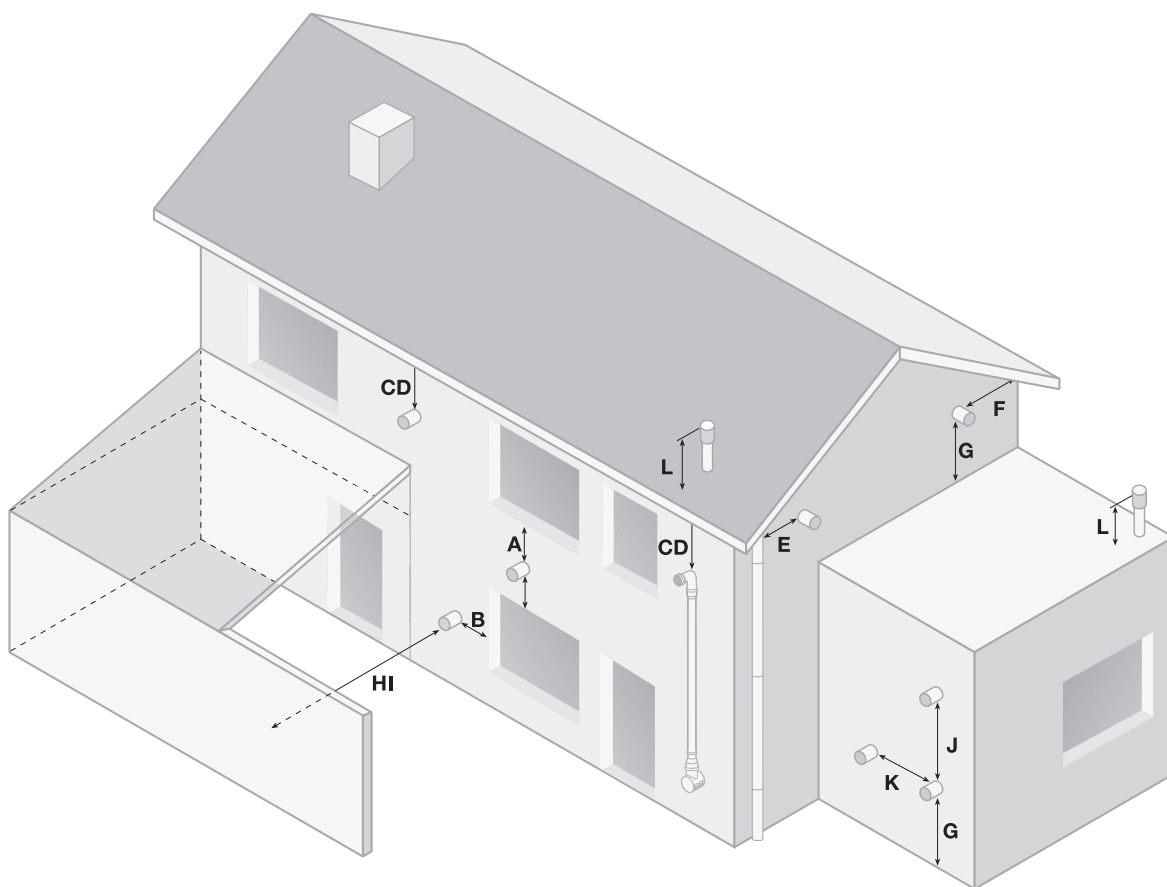
Flue pipe accessories-

Easy installation with unrivaled flexibility

Ariston boilers are designed to be completely adaptable to every possible flue situation that may be encountered during installation.

The need for alteration to flue components is almost completely eliminated, making installation of the boiler quick and easy.

It is possible to site flue terminals in a variety of positions in accordance with BS5440-1:2008.



TERMINAL POSITION

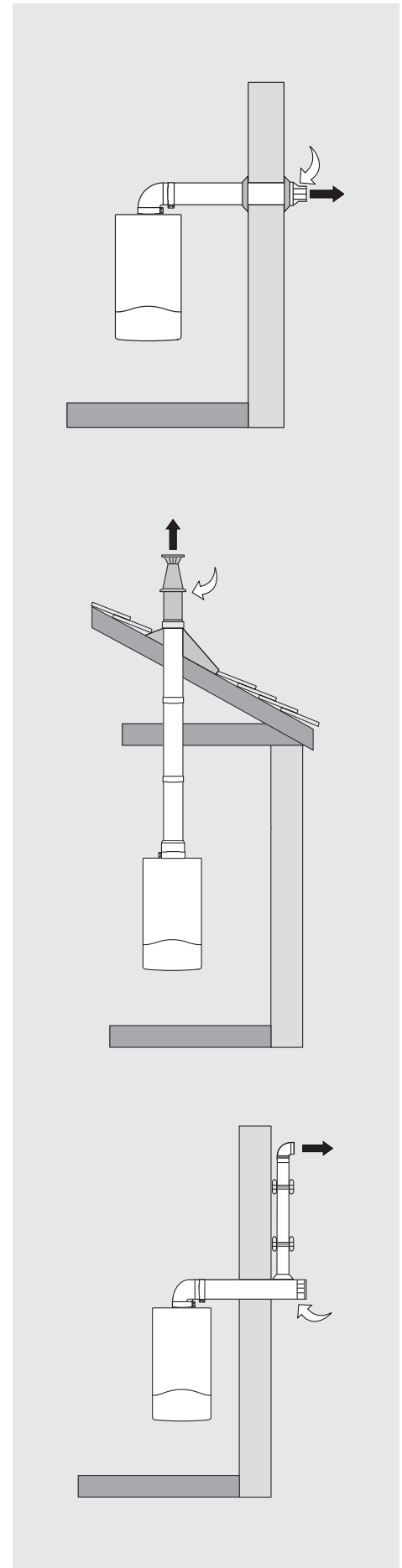
TERMINAL POSITION	mm	
A	Directly above/below an opening, air brick, opening windows, etc	300
B	Horizontally to an opening, air brick, opening windows, etc	300
C	Below gutters, soil pipes or drain pipes	75
D	Below eaves	200
E	From vertical drain or soil pipe	75
F	From an internal or external corner	300
G	Above ground roof or balcony level	300
H	From a surface facing the terminal	600
I	From a terminal facing the terminal	1200
J	Vertically from a terminal on the same wall	1500
K	Horizontally from a terminal in the same wall	300
L	Fixed by use of terminal and matched flashing plate	-

NOTE

- Do not install in a place likely to cause a nuisance/damage/discolouration
- Carport installations are not acceptable with HE appliances
- Products should not cross property boundaries (2.5 metres)

Flue Accessories

Description	Code
COAXIAL SYSTEMS 60/100	
Horizontal Coaxial Kit - 1000mm	3318073
Horizontal Coaxial Kit + Vertical Starter	3318074
90° Coaxial Elbow	3318075
45° Coaxial Elbow (Pack of 2)	3318076
Coaxial Extension - 2000mm	3318465
Coaxial Extension - 1000mm	3318077
Coaxial Extension - 500mm	3318078
Vertical Starter	3318079
Vertical Flue with Black Terminal	3318080
Vertical Flue with Red Terminal	3318081
Plume Kit (inc. 1000mm Horizontal Terminal)	3318329
Plume Extension (Ø60mm) - 1000mm	3318105
Plume 45° MF Elbow (Ø60mm) (Pack of 2)	3318106
COAXIAL SYSTEMS 80/125	
Horizontal Coaxial Kit + Adaptor (Ø80/125)	3318090
90° Coaxial Elbow (Ø80/125)	3318091
45° Coaxial Elbow (Ø80/125)	3318092
Coaxial Extension - 1000mm (Ø80/125)	3318093
Coaxial Extension - 500mm (Ø80/125)	3318094
Adaptor/Vertical Starter (Ø60/100 - Ø80/125)	3318095
Vertical Flue with Black Terminal	3318080
Vertical Flue with Red Terminal	3318081
Adaptor (Ø80/125 - Ø60/100)	3318200
TWIN PIPE SYSTEMS Ø80/80	
Adaptor (Ø60/80) for Twin Pipe Systems	3318369
Horizontal Twin Pipe (Ø80) Flue Kit	3318370
90° MF Elbow (Ø80)	3318084
45° MF Elbow (Ø80) (Pack of 2)	3318085
Extension - 1000mm (Ø80)	3318086
Extension - 500mm (Ø80)	3318087
Adaptor Ø80/125 - Ø80 for Vertical Termination	3318088
Adaptor Ø80/125 - Ø80 for Vertical Termination	3318089
Vertical Flue with Black Terminal	3318080
Vertical Flue with Red Terminal	3318081
Stainless Steel Exhaust Cap Adaptor (Ø80)	3318027
Intake Vent Cap (Ø80)	3318028
SUNDRY ITEMS	
Black Flexible Flashing Base Cap (12-40°)	3318009
Red Flexible Flashing Base Cap (12-40°)	3318010
Black Vent Cap Base for Flat Roof	3318011
Red Vent Cap Base for Flat Roof	3318012
Wall Bracket Kit (Ø80-Ø125) (Pack of 3)	3318015
Cover Plate (Ø100)	3318016
Plume Deflector (45°)	3829009



MODEL	12 FF	18 FF	24 FF	30 FF	38 FF
MAX FLUE LENGTHS					
Horizontal Coaxial 60/100 (m)	16	14	12	10	6
Horizontal Coaxial 80/125 (m)	48	42	36	30	18
Vertical Coaxial 60/100 (m)	16	14	12	10	8
Vertical Coaxial 80/125 (m)	56	49	42	35	21
Twin Pipe (equal lengths*)	48 + 48	42 + 42	36 + 36	30 + 30	18 + 18

* Other Twin Flue configurations are available, please refer to product manual for exact details.

Ariston Thermo UK Ltd
Ariston Building
Hughenden Avenue
High Wycombe
Bucks HP13 5FT
Telephone 01494 755600
Fax 01494 459775

Technical Advice & Customer Service
Fax 01494 463066
technical.uk@aristonthermo.com
info.uk@aristonthermo.com

www.ariston.co.uk

 **01494 755604**
sales office

 **0870 241 8180**
technical advice

 **0870 600 9888**
customer service



Follow us on
Facebook & Twitter

