



microGENUS HE

WALL-HUNG HIGH EFFICIENCY
GAS COMBINATION BOILER

Minimum space,
high efficiency



What are high efficiency boilers?



A high efficiency boiler (also known as condensing) always extracts more heat from the combustion process and does not waste heat through the flue when compared to a standard efficiency (also known as non-condensing) boiler. A high efficiency boiler produces the same amount of heat output whilst burning less fuel and therefore creating less greenhouse emissions. High efficiency boilers burn gas in a traditional manner, but rather than losing energy in the form of high temperature gases from the flue, they recover that useful heat. A high efficiency boiler is always saving on gas, money and reducing CO₂ emissions. Current legislation makes the installation of high efficiency boilers compulsory in the majority of cases, this is in order to reduce CO₂ emissions throughout the UK. CO₂ is the major cause of global warming, adding to the greenhouse effect that is produced by burning fossil fuel. A central heating and hot water system in a typical household using a standard efficiency boiler will produce around 5 tonnes of CO₂ a year. A high efficiency boiler's typical production of CO₂ given the same factors is around 3 tonnes a year.

Compact, performance and reliability

- 2 year guarantee – extendable up to 5 years
- Simple to use controls – instant display of operational status
- Compact, space saving design
- Hot water on demand – flow rates of up to 12.5 l/min
- Comfort switch – pre-heat function guarantees hot water within seconds
- Easy-to-use mechanical time clock for central heating

Reliable technology microGENUS HE withstands the test of time



When the microGENUS range was first introduced it heralded a new era in central heating boilers. The microGENUS was designed not only to be compact and offer high levels of comfort but was also launched with a 2 year guarantee. This parts and labour guarantee was not intended to be a gimmick but a true commitment to the level of quality and longevity incorporated in to the boiler. It is said that 'time will tell' and this was certainly true for the microGENUS HE, as now it is one of the UK's best selling gas boilers and has scored favourably not only in terms of popularity but more importantly in reliability. But what happens when the 2 year guarantee is over? Simple, Ariston also offers a unique scheme that means the guarantee can be extended at the time of installation to 5 years in total and then annually for the life of the boiler; so, simply, microGENUS HE offers total peace-of-mind.

The latest technology easy to install



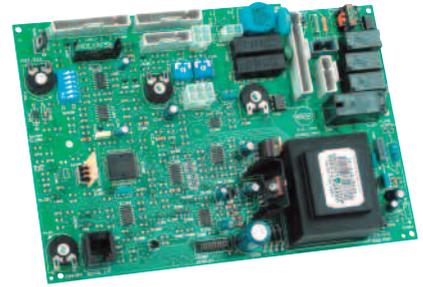
microGENUS HE installer benefits

- 2 year guarantee
- SEDBUK Band B – complies with the latest regulations
- D.H.W. flow rates of up to 12.5 l/min
- Quick and easy installation – time saving
- Built-in mechanical time clock
- Filling-loop as standard
- Multiple flueing options – maximum siting flexibility

microGENUS HE flexible and popular

microGENUS HE is SEDBUK Band B rated, it achieves this level of efficiency by incorporating an additional latent heat exchanger or recuperator, which significantly increases efficiency by extracting additional heat from the flue gases. The recuperator takes this heat, which is normally lost through the boiler flue, and uses this energy to pre-heat the boiler primary circuit water before it enters the main heat exchanger. This energy is usually wasted in standard efficiency boilers. The benefit of this is that it is based on existing technology and offers the installer a known boiler layout whilst meeting the requirement of the latest regulatory changes.

microGENUS HE of course offers all the benefits of the microGENUS family such as: compact dimensions, built-in time clock, anti-frost device, by-pass and filling-loop as standard plus a myriad of flue and standard accessories making it one of the most flexible and popular combi boilers available. In addition to the shared features above microGENUS HE also features a condensate trap that is accessible from the outside of the boiler casing, thus eliminating the need for any disassembling for periodical maintenance. microGENUS HE is simply the perfect solution for both the end-user and installer alike.



microGENUS HE

24 MFFI - 28 MFFI
32 MFFI

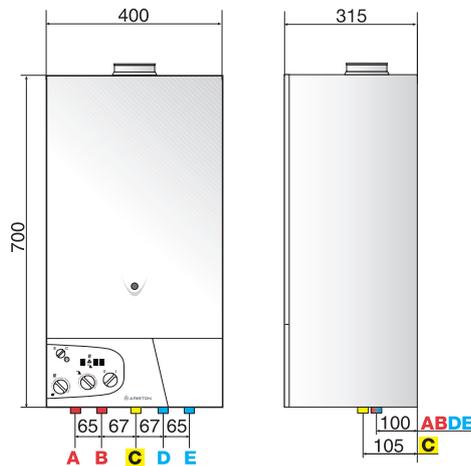
WALL-HUNG HIGH EFFICIENCY
GAS COMBI BOILER

2 FREE
2 year
guarantee



- SEDBUK BAND B
- COMPACT DIMENSIONS (700 X 400 X 315MM)
- AUTO-DIAGNOSTIC SYSTEM
- COMFORT MODE (PRE-HEAT FUNCTION)
- HIGH HOT WATER FLOW RATES
- ANTI-FROST & ANTI-SCALE DEVICE
- BUILT-IN BY-PASS
- BUILT-IN MECHANICAL TIME CLOCK
- INCLUDES JIG KIT AND FILLING LOOP

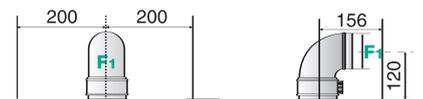
*compact,
lightweight
and easy to
install*



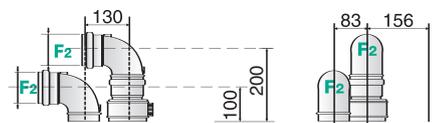
LEGEND

- A: Central heating flow 22mm copper tail
- B: Domestic hot water outlet 15mm copper tail
- C: Gas inlet 15mm copper tail
- D: Domestic hot water inlet 15mm copper tail
- E: Central heating return 22mm copper tail
- F: Flue (Ø mm)
- F1: 60/100 - 80/125
- F2: 80

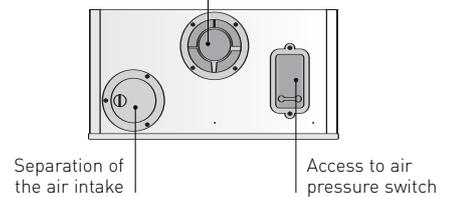
Coaxial exhaust



Twin pipe exhaust



Simplified Coaxial system coupling



band **B**
comfort *plus*

Technical Information

		microGENUS HE 24 MFFI	microGENUS HE 28 MFFI	microGENUS HE 32 MFFI
EFFICIENCY				
SEDBUK Rating	Band	B	B	B
SAP efficiency	%	87.6	87.1	87.3
POWER & PERFORMANCE				
Heat input max.	kW - Btu/h	26.7 - 91,100	31.1 - 106,100	35.0 - 119,400
Heat input min.	kW - Btu/h	12.2 - 41,600	13.3 - 45,400	13.3 - 45,400
Heat output max.	kW - Btu/h	23.3 - 79,500	27.0 - 92,100	30.5 - 104,000
Heat output min.	kW - Btu/h	10.4 - 35,500	11.4 - 38,900	11.3 - 38,600
Central heating temp. max. (high temp.)	°C	82	82	82
Central heating temp. min. (high temp.)	°C	42	42	42
Central heating temp. max. (low temp.)	°C	44	44	44
Central heating temp. min. (low temp.)	°C	38	38	38
D.H.W. temperature maximum	°C	56	56	56
D.H.W. temperature minimum	°C	36	36	36
D.H.W. flow rate $\Delta T = 35^{\circ}\text{C}$	l/min	9.5	11.0	12.5
D.H.W. flow rate $\Delta T = 35^{\circ}\text{C}$	gal/min	2.1	2.4	2.8
CHARACTERISTICS				
D.H.W. minimum flow rate	l/min	2.5	2.5	2.5
Domestic hot water pressure maximum	bar	6	6	6
Domestic hot water pressure minimum	bar	0.2	0.2	0.2
Built-in expansion vessel capacity	l	7	7	7
Built-in expansion vessel pre-charged pressure	bar	0.7	0.7	0.7
Maximum water content of system	l	130	130	130
Maximum heating pressure	bar	3	3	3
Servicing clearances - top/front/bottom	mm	250/450/200	250/450/200	250/450/200
Servicing clearances - left/right	mm	35/35	35/35	35/35
Zero compartment ventilation		Yes	Yes	Yes
Weight	kg	37	38	39
ELECTRICAL DATA				
Electrical supply	V/Hz	230/50	230/50	230/50
Power consumption	W	120	148	165
Protection grade of electrical system	IP	24D	24D	24D
Internal fuse rating		2A Fast Fuse	2A Fast Fuse	2A Fast Fuse

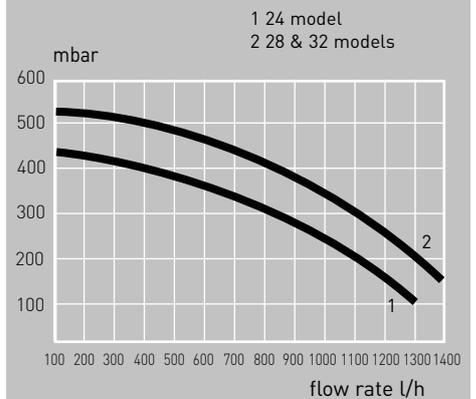
PRODUCT CODE	3300025	3300015	3300026
--------------	---------	---------	---------

Accessories

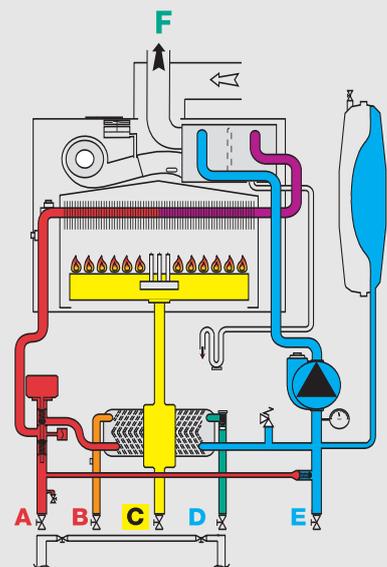
	Code
Rear Piping Chassis	706190
Digital Time Clock	706348
System Cleaner	705998
Anti-Theft Kit	705982
LPG Conversion Kit	998717
FLUE ACCESSORIES: COAXIAL SYSTEMS $\varnothing 60/100$	
Horizontal Coaxial Kit - 1000mm	3318073
Horizontal Coaxial Kit + Vertical Starter	3318074
90° Coaxial Elbow	3318075
45° Coaxial Elbow (2 Pack)	3318076
Coaxial Extension - 1000mm	3318077
Coaxial Extension - 500mm	3318078
Vertical Starter	3318079
Vertical Flue with Black Terminal	3318080
Vertical Flue with Red Terminal	3318081
FLUE ACCESSORIES: COAXIAL SYSTEMS $\varnothing 80/125$	
Horizontal Coaxial Kit + Adaptor $\varnothing 80/125$	3318090
90° Coaxial Elbow $\varnothing 80/125$	3318091
45° Coaxial Elbow $\varnothing 80/125$	3318092
Coaxial Extension $\varnothing 80/125$ - 1000mm	3318093
Coaxial Extension $\varnothing 80/125$ - 500mm	3318094
Adaptor/Vertical Starter $\varnothing 60/100$ - $\varnothing 80/125$	3318095
Vertical Flue with Black Terminal	3318080
Vertical Flue with Red Terminal	3318081

*energy
efficiency
and
compact
dimensions*

Graph of boiler residual head



ROOM-SEALED FAN FLUE
24 MFFI - 28 MFFI - 32 MFFI





MTS (GB) Limited
MTS Building
Hughenden Avenue
High Wycombe
Bucks HP13 5FT
Telephone 01494 755600
Fax 01494 459775

Technical Advice & Customer Service
Fax 01494 463066
techhelpdesk@uk.mtsgroup.com
info@uk.mtsgroup.com

www.ariston.co.uk

