





EFFICIENT CENTI INSTANT HOT WATER AT

HOW DOES A COMBI BOILER WORK EXACTLY?

Unlike a conventional domestic central heating and hot water system, a combi (short for combination) boiler heats water taken directly from the cold mains - but only as you use it.

There's no hot water cylinder in the airing cupboard. No tanks in the loft. And, consequently, none of the connecting pipework which all too often can freeze up, burst and cause floods. Combi boilers, especially those made by Biasi, are very compact and designed to be wall mounted so saving you space and reducing hot water costs into the bargain.

And because a combi supplies hot water at mains pressure, you can enjoy an invigorating powerful shower without having to install a pump!

As for bathing, you don't have to wait ages for a cylinder to heat up either. In fact, you'll be pleasantly surprised at how quickly a Biasi boiler delivers tubfuls of hot water.

A MODEL TO SUIT EVERY NEED

The Biasi 'Riva' range of combi boilers offers you a choice of outputs from 80,000 Btu/h to 96,000 Btu/h, so there's a model to meet every requirement.

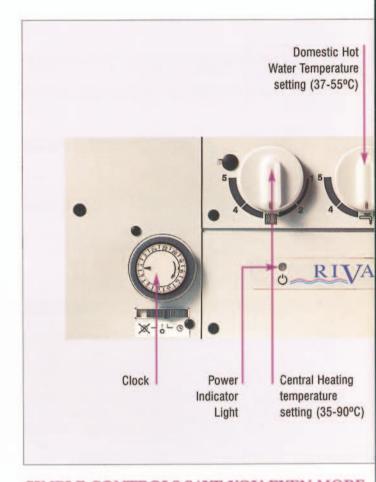
Their supremely high efficiency ratings come from having sealed combustion chambers - a feature developed and perfected over many years by Biasi engineers.

SAVING YOU SPACE ALL OVER THE PLACE

No hot water cylinder means more room in the airing cupboard. No cold water storage tanks give you more space in the loft.

And the compact design of a 'Riva' combi lets you install it anywhere - in the kitchen, in the utility room...even in the garage! What's more, the elegant Italian styling and beautiful gloss white casing will compliment any décor scheme. It doesn't end there, 'Riva' combis have been designed with flexibility of siting uppermost and now there is no need to provide compartment ventilation when installed in these locations.

A wide choice of flue options are available, these options include vertical and multi-directional room-sealed balanced flues that expel flue gases to the outside via integral fan units.



SIMPLE CONTROLS SAVE YOU EVEN MORE

All 'Riva' combis have electronic ignition, without a pilot flame, which saves on gas bills of course.

They also come with a fitted time clock as standard so you can control your heating and hot water needs precisely according to the demands of your household.

SAFE AS HOUSES

'Riva' combi boilers come with all the safety features and devices as standard, unlike many other makes where they are optional 'extras'.

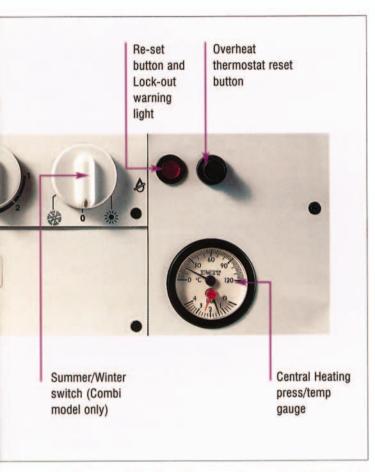
Anti-Scale System

The build-up of limescale in any system can cause problems. With 'Riva' combi boilers (except the 24 SR model) temperature regulation is the key to prevention of limescale.

Temperatures within the critical zone main circuit are kept below 75°C, so restricting scale formation.

Domestic H The INOX steel exchanger is easy delivers hot we

RAL HEATING AND THE FLICK OF A SWITCH!



And even if it should accumulate, the INOX steel domestic hot water plate exchanger is easy to clean in minutes by your service engineer.

Safety Flow Switch

This is a device, positioned on the main circuit, which monitors the flow and protects the main heat exchanger from thermal shock should the system lack water.

Radio Disturbance Immunity

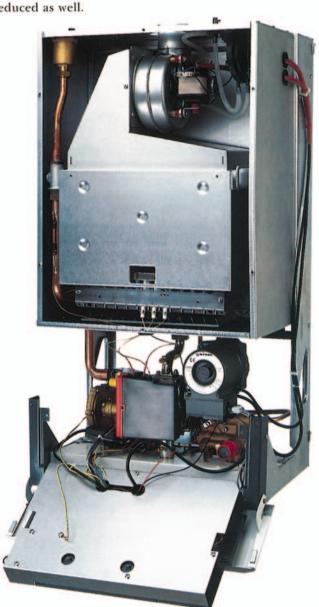
The electronic p.c.b. is equipped with devices that protect the operation of the boiler from radio frequencies which can be harmful.

Temperature Fluctuation (± 1°C)

A gas valve modulates continuously when operating in both heating and hot water cycles (not on 24 SR model). Because the central heating output can be adjusted during commissioning to match your heating requirements, the temperature fluctuation is always maintained within 1°C.

SO EASY TO INSTALL AND MAINTAIN

With no tank, no cylinder and a lot less pipework to connect them, 'Riva' combi boilers offer you substantial savings on materials as well as installation time and costs. And because they have been designed for easy access to all the main components, servicing time and bills are greatly reduced as well.



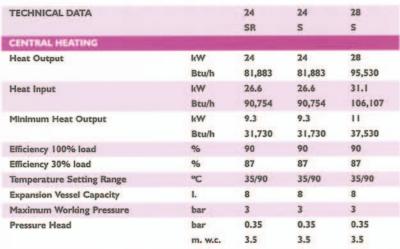
LPG KITS MAKE 'RIVA' COMBIS A NATURAL CHOICE

You don't have to have a natural gas supply to enjoy the advantages of a 'Riva' combi.

One of the real benefits of them is that conversion kits are available for liquid petroleum gas users.



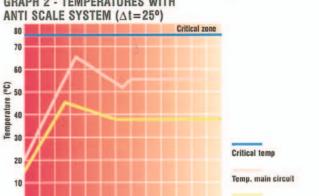
TECHNICAL CHARACTERISTICS



DOMESTIC HOT WATER			
Heat Output	kW	24	28
	Btu/h	81,883	95,530
Heat Input	kW	26.6	31.1
	Btu/h	90,750	106,100
Temperature Setting Range	°C	37/55	37/55
Working Pressure max.	bar	10	10
min.	bar	0.3	0.3
Flow Rate ($\Delta t = 25^{\circ} \text{K}$)	I/min	13.7	16
Flow Rate (\Delta t=35°K)	I/min	9.5	11.4

Voltage/Frequency	V/Hz	230/50	230/50	230/50
Power	W	150	150	170
Height	mm	800	800	800
Width	mm	450	450	450
Depth	mm	350	350	350
Weight	kg	41	45	48
Inlet/Outlet connections	"/mm	3/4/22mm	3/4 /22mm	3/4 /22mm
Gas Inlet connection	"/mm	3/4/22mm	3/4 /22mm	3/4 /22mm
D.H.W. Inlet/Outlet connection	" / mm		1/2/15mm	1/2/15mm
Ø flue pipe	"/mm	60/100	60/100	60/100
Maximum horizontal length of flue pipe	m	2.65	2.65	2.65

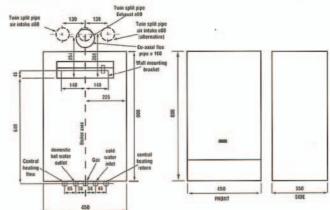
GRAPH 1 - NET PRESSURE HEAD kPa 0.50 50 45 0.45 UPRATED PUMP 40 0.40 35 0.35 30 0.30 25 0.25 20 0.20 15 0.15 10 0.10 0 800 1000 1200 1400 1600 400 600 **GRAPH 2 - TEMPERATURES WITH**



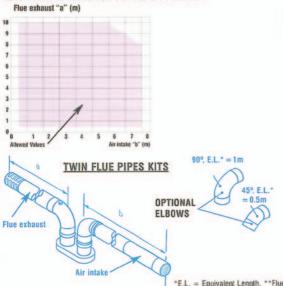
FIXING HOLES AND CONNECTION PIPES POSITIONS

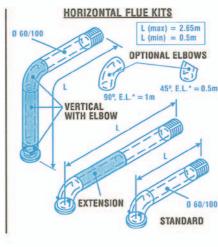
10 20

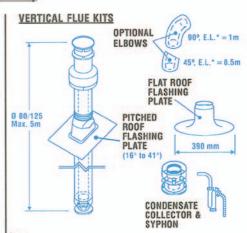
30 40 50 60 70 80 90 100 110 120 Time (sec)



'ALLOWABLE LENGTHS FOR TWIN-SPLIT FLUE PIPE'







Maximum 4 bends permitted (45° or 90°) per flue installation.
 When the flue equivalent length** exceeds 3m a Condensate Collector and Syphon are required.

*E.L. = Equivalent Length. **Flue equivalent length = the total length of any Straight sections of the installed flue system plus the total equivalent length of any elbows fitted.

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BRITISH BASISERVICE LISTED

Temp. D.H.W. at 13 ltr/min

Combi Boilers, Italian Style.