

# RIVA

plus

*compact & efficient - safe & secure*



# BIASI

*Combi Boilers, Italian Style.*

# RIVA

plus

*compact case dimensions*

*no compartment ventilation needed*

*anti-scale control system*

*fitted central heating time control*

*electronic ignition system*

*automatic boiler bypass*

*frost protection system*

*L.P.G. kits available*

*7 day electronic programmer*

*visual fault diagnostics*

703mm

400mm



*Combi Boilers, Italian Style.*

*compact & efficie*

## Why choose a Biasi Combi Boiler?

- Ultra-compact design.
- Elegant Italian styling.
- Beautiful, gloss white casing.
- Designed to be wall mounted thus saving valuable space.
- Hot water supplied at mains pressure.
- Wide choice of flueing options including vertical and multi-directional room-sealed balanced flues that expel flue gases to the outside via integral fan units.
- New, advanced 7 day Electronic Programmer.
- All Biasi combi boilers are manufactured to comply with all EU Safety Standards.
- Choice of 2 outputs from 24 kW (80,000 Btu's) to 28 kW (96,000 Btu's).
- Conversion kits for use with L.P.G. supplies.

### So easy to install and maintain ...

- No tanks or cylinders.
- Less pipework.
- Substantial savings on materials, installation time and costs.
- Easy access to all the main components.
- Servicing time and bills greatly reduced.
- Concealed pipework jig & pre pipe fixing jig available as additional accessories.

A three L.E.D. Visual Diagnostic Information System is provided on the control panel to assist the Installer and Service Engineer to ensure the correct functioning of the boiler's operational control system.

### Simple controls save you even more ...

- Fully automatic electronic ignition system.
- No pilot flame, saving you money on gas bills.
- Central heating time control fitted as standard.
- Facility to connect to a room thermostat, so you can control your heating needs precisely according to the demands of your household.

### Providing you peace of mind ...

Naturally, to ensure your peace of mind every Biasi Riva Plus boiler comes with our Two Year Manufacturer's Guarantee. Simply complete and return the Guarantee Certificate to us at the time of purchase.

### Service & Support

Biasi UK aims to provide quality Technical Service & Support. Our Technical Helpline 01902 304400 is available Monday to Saturday for specific telephone advice. In the unlikely event that a service visit is required, our nation-wide network of Service Agents will endeavour to attend within 24hrs (normal working days), or at a mutually agreed time.



### Safe as houses

The Riva Plus combi boiler comes with many features and devices as standard - unlike other makes where they are optional 'extras'.

#### Anti-Scale Control System

The build-up of limescale in any system can cause problems. With the Riva Plus combi boiler, temperature regulation is the key to prevention of limescale. Temperatures within the main circuit are kept below the critical zone temperature of 75°C, so restricting scale formation. Even if scale should accumulate, the INOX steel coating on the domestic hot water plate heat exchanger means it can be easily maintained by your service engineer.

#### Safety Flow Switch

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

#### Frost Protection System

The Biasi Riva Plus boiler has an integral frost protection system to prevent frost damage to the boiler occurring when it is located in areas susceptible to very cold weather conditions, like a garage installation.

#### Boiler Operation Recognition System

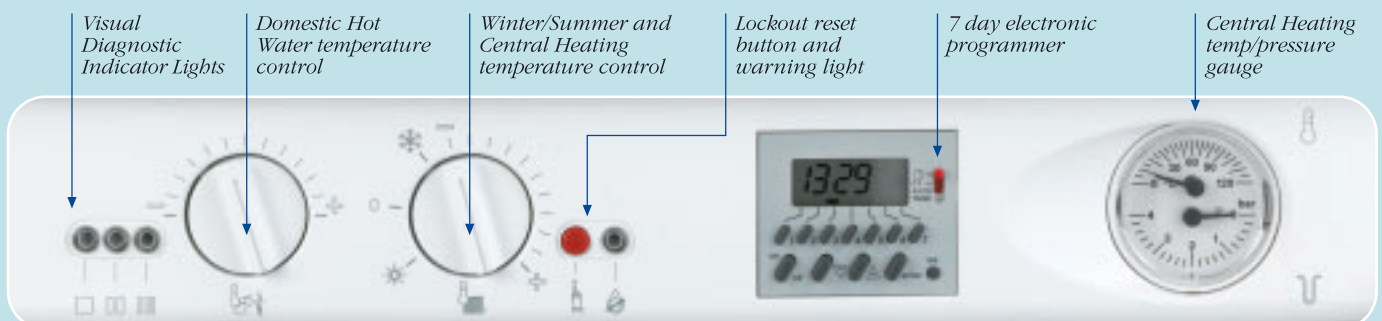
Should the boiler not be used for longer than 24 hours, it then performs a controlled exercise routine, which ensures that the motorised components within the boiler do not become inoperable due to lack of use.

#### Radio Disturbance Immunity

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

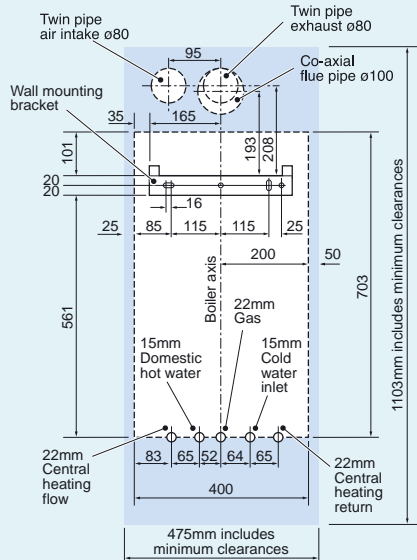
#### Temperature Fluctuations ( $\pm 1^\circ\text{C}$ )

The gas valve modulates continuously when operating in both heating and hot water cycles. Because the central heating output can be adjusted during the commissioning procedure to match your heating system requirements, the temperature fluctuation is always maintained within  $\pm 1^\circ\text{C}$ .

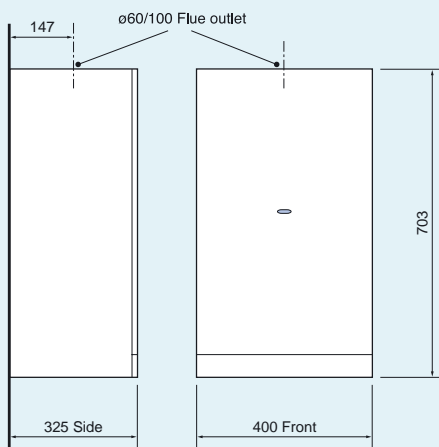


nt - safe & secure

## Fixing holes and connection pipes positions



**Notes:**  
 Additional concealed pipework and pre pipe fixing kit accessories are available:  
 • Additional Concealed Pipework jig.  
 • Additional Pre Pipe fixing jig.



TECHNICAL DATA		M90D.24S	M90D.28S
<b>CENTRAL HEATING</b>			
Heat Output	kW	24.3	28.4
	Btu's	82,906	96,895
Heat Input	kW	26.6	31.1
	Btu's	90,754	106,107
Minimum Heat Output	kW	9.1	10.8
	Btu's	31,047	36,847
Temperature Setting Range	°C	38/85	38/85
Expansion Vessel Capacity	litres	6	6
Maximum Working Pressure	bar	3.0	3.0
System Cold Fill Pressure	bar	1.3	1.3
Normal Operating Pressure Range	bar	1.3 to 2.7	1.3 to 2.7
Available Pump Pressure (at 1000 litres/hr)	bar	0.3	0.3
	m.w.c.	3.0	3.0

<b>DOMESTIC HOT WATER</b>			
Heat Output	kW	24.3	28.4
	Btu's	82,906	96,895
Heat Input	kW	26.6	31.1
	Btu's	90,754	106,107
Temperature Setting Range Normal Working	°C	35/55	35/55
Pressure Range	bar	0.3 to 5.0	0.3 to 5.0
Minimum Working Pressure	bar	0.3	0.3
Maximum Pressure	bar	10.0	10.0
Minimum Flow Rate	l/min	2.5	2.5
Flow Rate (30° rise)	l/min	11.1	13.3
Flow Rate (35° rise)	l/min	9.5	11.5

OTHER DATA			
Voltage/Frequency	V/Hz	230/50	230/50
Power	W	150	170
Height	mm	703	703
Width	mm	400	400
Depth	mm	325	325
Weight	kg	37	39
C.H. Inlet & Outlet Connections	mm"	22/ 3/4	22/ 3/4
Gas Inlet Connection	mm"	22/ 3/4	22/ 3/4
D.H.W. Inlet & Outlet Connections	mm"	15/ 1/2	15/ 1/2
Standard Flue Pipe ø (Nominal Length 750mm)	mm	60/100	60/100
Maximum Horizontal Length of Flue Pipe	m	4.0	4.0
Minimum Horizontal Length of Flue Pipe	m	0.5	0.5

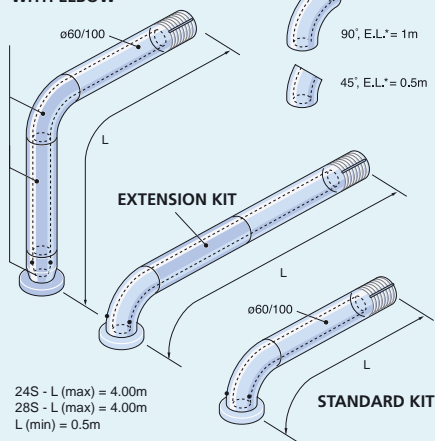
See Boiler Accessories Brochure for Specific Flue Component Details.

EFFICIENCY		
SEDBUK Rating	D	D
Building Regulations - Part L compliant		

CLEARANCE REQUIREMENTS		
Top and Bottom		200mm
Left Hand Side		25mm
Right Hand Side		50mm
Minimum Front Clearance requirement in Operation		50mm
Minimum Front Clearance requirement for Servicing and Maintenance		600mm

## Horizontal flue kits

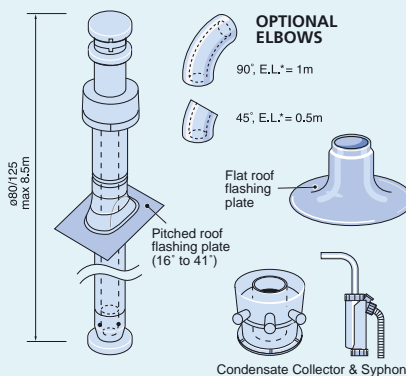
### VERTICAL KIT WITH ELBOW



### OPTIONAL ELBOWS

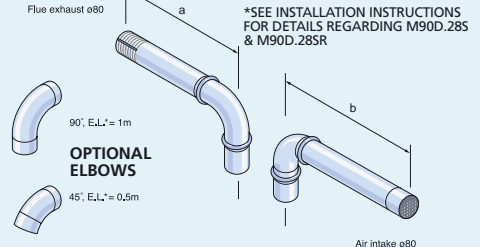
90°, E.L.\* = 1m  
 45°, E.L.\* = 0.5m

## Vertical flue kits

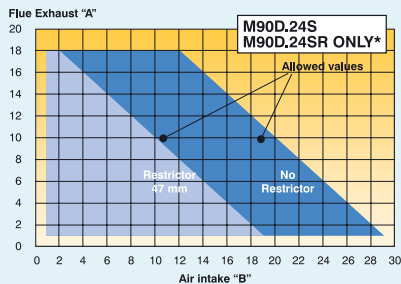


**Notes:**  
 Maximum 4 bends permitted (45° or 90°) per flue installation. When the flue equivalent length\*\* exceeds 3m a Condensate Collector and Syphon are required.  
 \*E.L. = Equivalent Length.  
 \*\*Flue equivalent length = the total length of any Straight sections of the installed flue system plus the total equivalent length of any elbows fitted.

## Twin tube flue kits



\*SEE INSTALLATION INSTRUCTIONS FOR DETAILS REGARDING M90D.28S & M90D.28SR



Combi Boilers, Italian Style.

### Biasi UK Ltd

Units 31/33 Planetary Road Industrial Estate,  
 Neachells Lane, Willenhall,  
 Wolverhampton, WV13 3XB

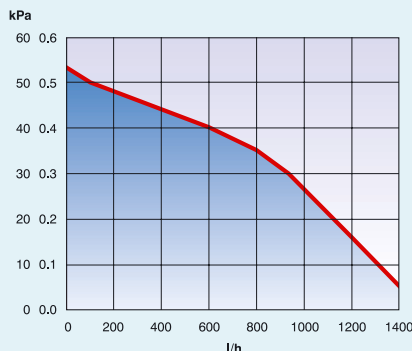
Tel: (Sales) 01902 304304

Fax: (Sales) 01902 304321

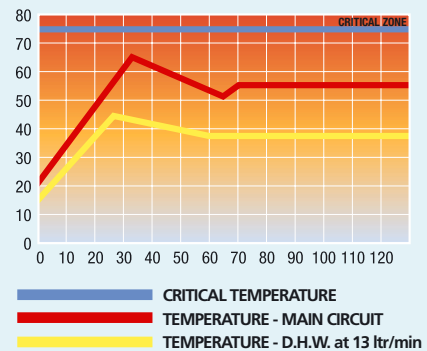
Web: [www.biasi.co.uk](http://www.biasi.co.uk)



## AVAILABLE PUMP PRESSURE



## TEMP. WITH ANTI-SCALE SYSTEM (Δt = 25 °C)



Our policy is one of continued improvement in both design and performance of our products. Biasi therefore reserves the right to alter or amend any details contained in this brochure and any associated literature without prior notification.