

THE ULTIMATE HEATING EXPERIENCE

- ✕ Part L Compliant SedBUK Band C.
- ✕ Based on the well proven 'S' Range designs.
- ✕ Flexible output which can be adjusted to match actual heating requirements within its output range.
- ✕ Instant mains pressure hot water at the turn of a tap.
- ✕ Rapid re-heat after hot water draw-off.
- ✕ Simplified pipework layout. Front service access to all main components.
- ✕ Traditional Firebird operating quietness.
- ✕ Sealed system installation.
- ✕ No time-wasting attic pipework
- ✕ Designed to comply with European Energy Efficiency Directive covered by OFTEC standards OFS A 100 (EN303 Part 4.)
- ✕ Quality Assured manufacture to ISO 9002. Approved OFTEC Member
- ✕ All Firebird oil boilers have a 2 year comprehensive warranty which extends to 5 years on the boiler shell.



For further information on all Firebird products please contact:

FIREBIRD BOILERS
Ballymakeera, Co. Cork.

Tel: [+353] 026 45253 Fax: [+353] 026 45309

FIREBIRD PRODUCTS

Shean, Forkhill, Newry. BT35 9SY.

Tel: [+44] 028 30888330 Fax: [+44] 028 30889096

FIREBIRD UK

Unit 6, Westover Industrial Estate,

Ivybridge, Devon PL 21 9 ES.

Tel: [+44] 01 752 691177 Fax: [+44] 01 752 691131

Int. Access Codes: Eg. N.I. +44 28 30888330



TECHNICAL SPECIFICATION Combi Range

TOTAL OUTPUT: 50,000 to 120,000 Btu/h

BURNER: RIELLO RDB & G5X or ECOFLAM MAX.

ELECTRICAL SUPPLY: 230v 50Hz
Fused at 5 Amp

FLUE: 4" or 5" Int. Dia. Conventional Flue
3" Dia. Int. Balanced Flue

MAX HEARTH TEMP LOWER THAN 50°C

DOMESTIC HOT WATER GUIDE PERFORMANCE
50-70,000 Btu's - 120 Litres at 40° Δt at 12 Litres per minute
70-90,000 Btu's - 120 Litres at 40° Δt at 14 Litres per minute
90-120,000 Btu's - 120 Litres at 40° Δt at 18 Litres per minute

Where combi is fitted to existing house plumbing designed for gravity water supply from roof tanks, installer should check that fittings and all appliances are suitable for mains pressure water.

To balance supply outlets it is recommended that simple flow restrictors be fitted internally to taps-especially 3/4" bath taps.

SEALED HEATING SYSTEM Maximum operating pressure 2.5 Bar
Minimum system pressure (cold) 0.5 Bar
Maximum system pressure (cold) 1.5 Bar

Expansion vessel fitted inside boiler casing

N.B. Additional expansion vessel may be needed dependent on system water volume. Please carefully consult Firebird installation manual or appropriate training manuals.

COMBI CONNECTING PIPES
Heating flow 22mm (28mm - 90-120)
Heating return 22mm (28mm - 90-120)
Mains cold water boiler connection 15mm
Hot water delivery 15mm
Safety pressure relief Valve outlet 15mm
All boiler connections are valved for copper pipe BS 2871 COPPER PIPE

THERMOSTATS
Boiler central heating control thermostat adjustable 65°C - 85°C
Boiler Safety Limit Thermostat 110°C
Tank (DHW) Thermostat 78°C (Fixed)
Over-Run-Thermostat 93°C (Fixed)

Boilers must be installed, commissioned and serviced by qualified and experienced OFTEC approved personnel (U.K. only). It should be noted that it is the responsibility of the installer to ensure that the boiler is properly commissioned. Failure to do so may invalidate the boiler guarantee and any extended warranty.

AFTER SALES SERVICE Firebird provides an after sales service through a nationwide network of independent service engineers. When necessary contact should be made with your installer or with our customer service dept.

© Copyright applies to all FIREBIRD products. Our policy is one of continual development and we therefore reserve the right to change without prior notice the specification of our products at any time and be without obligation to make similar changes in products previously produced.

E.&O.E.

Revision 3 © 01 11 03



TECHNOLOGY OF THE FUTURE TODAY



THE ULTIMATE HEATING EXPERIENCE

Combi Oil Boiler Range

CONVENTIONAL & BALANCED FLUE



PRODUCT CONFIDENCE

Confidence in our product allows us to guarantee our boiler and tank bodies for five years when installed correctly and without system leaks. All other component parts not manufactured by us are guaranteed for two years.

OPERATING CONTROL

The boiler itself is controlled by a standard thermostat which is variable between approx 55°C & 85°C boiler water temp. This allows temperature adjustment of central heating water with separate control of domestic hot water. It is however recommended that room temperature be controlled by thermostatic radiator valves or by electric room thermostat. This can be easily connected into boiler control panel. A boiler safety limit thermostat is also fitted to control panel. During domestic hot water production, the boiler is controlled by fixed tank thermostat plus safety limit thermostat. This promotes better hot water performance.

CONTROL PANEL

The control panel is designed for simplicity of use and is equipped with adjustable thermostat knob and optional time controls for both domestic hot water and central heating. It also has a built in system pressure gauge which is connected to the boiler and heating system water at the safety valve.

INSTALLATION TIME SAVING

In a truly mains fed hot & cold water system with a Combi Boiler, no tank or pipe work needs to be installed in roof space, neither is a hot water storage cylinder required. It is necessary however to ask your installer to ensure that mains water supply and pressure are adequate. It should also be noted that larger properties with large households may need a larger boiler or different system. If in doubt consult your qualified installer or Firebird Boilers direct.

INSTALLATION CONVENIENCE

The Firebird Combi Oil Boiler has been carefully designed for installation convenience both from the householders and the installers point of view. All major components and connections are conveniently arranged for total access. We regard this as vitally necessary when it comes to time saving maintenance.

INSTALLATION REQUIREMENTS

Installation must comply with appropriate current Irish and British standards and Building regulations or standards of country in which boiler is installed. Technical information guidance is available in manual supplied with boiler. This information should be studied and applied during installation.



High Level Balanced Flue



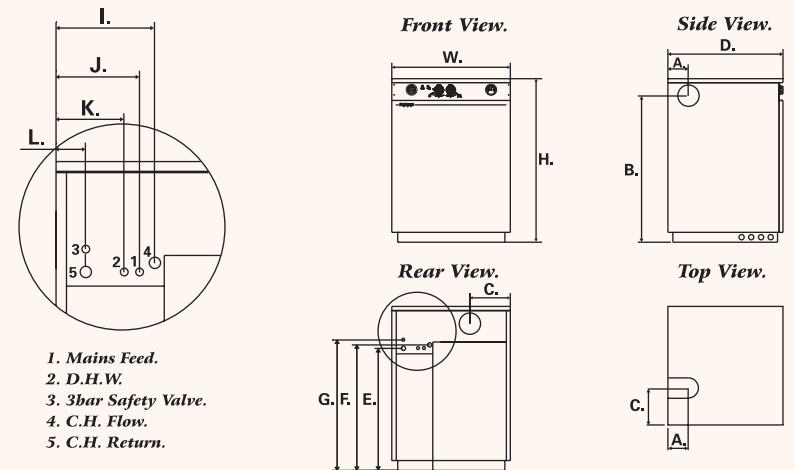
Vertical Balanced Flue



Standard Balanced Flue



COMBI RANGE DIMENSIONS



1. Mains Feed.
2. D.H.W.
3. 3bar Safety Valve.
4. C.H. Flow.
5. C.H. Return.

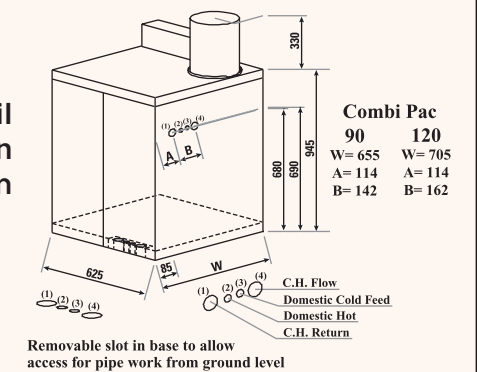
50-70 & 70-90				90-120			
H.	840mm	A.	155mm	H.	840mm	A.	155mm
W.	610mm	B.	750mm	W.	670mm	B.	750mm
D.	600mm	C.	190mm	D.	600mm	C.	220mm
		I.	210mm			I.	230mm
E.	640mm	J.	185mm	E.	640mm	J.	185mm
F.	650mm	K.	135mm	F.	650mm	K.	135mm
G.	695mm	L.	70mm	G.	695mm	L.	70mm

COMBI PAC RANGE

50-70 • 70-90 • 90-120

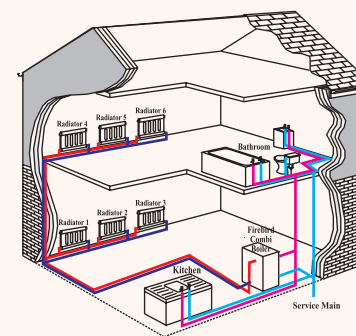


Combi Pac Dimensions & Plumbing Point Dimensions

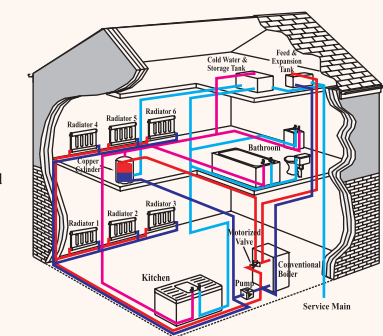


The Firebird Combi Oil Boiler is also available in an outdoor model in the form of a Combi Heat Pac.

HEATING SYSTEMS



Firebird Combi System Showing Simplified Household Piping



Typical Conventional Boiler System

- Domestic Cold Feed
- Domestic Hot
- Central Heating Cold
- Central Heating Hot