

Mistral

OIL-FIRED BOILERS YOU'LL WARM TO



High efficiency condensing oil-fired boilers.

Combi Boilers	15-41kw
Mega Combi	41-68kw
Sealed System	15-41kw
Kitchen / Utility	15-68kw
Boiler House	15-68kw
Outdoor Combi	15-41kw
Outdoor Mega Combi	41-68kw
Outdoor Sealed System	15-41kw
Outdoor Standard	15-68kw
Commercial Cast Iron	20-90kw

THE FUTURE -OF- OIL-FIRED BOILERS

A warm welcome to one of Britains most advanced and comprehensive ranges of condensing and non condensing oil-fired appliances.

A Warm Welcome to the Next Generation -of- Oil-Fired Boilers



Standard Combi



Powerful combination boilers 15-41 kw (50 - 140,000 btu). Compact and stylish range, producing highly efficient heating and hot water on demand. Unique immersion back up on combi Plus models.

Sealed System



A standard Kitchen Utility boiler upgraded to include pump, auto air vent and sealed system kit.

Outdoor



Full range of weather resistant, self contained boilers, available as standard, sealed system, and combi. Range from 15 - 68 kw (50 - 232,000btu).

Commercial



Gas, oil, lpg or dual fuel, this robust range of boilers has outputs from 80 - 320,000 btu. Would suit larger domestic, or commercial installations.

Boiler House



A range of highly efficient boilers, suitable for installations such as a garage, outhouse or boiler room.

Mega Combi



Ideal for larger installations 41 - 68 kw (140 - 232,000btu), with flow rates from 25 - 35 litres per minute.

Kitchen / Utility



A quality range of boilers from 15 - 68 kw (50 - 232,000 btu). Models 15 - 41 kw (50 - 140,000 btu) fit neatly under a standard kitchen work surface.



Mistral have been producing oil - fired boilers for over 40 years in the UK. and utilise some of the most technically advanced robotics / equipment, to ensure that we deliver to you, our customer, the very finest product, incorporating cutting edge design. We have the largest range of combi and outdoor models available, with some unique features, such as Y section inners for maximum efficiency, and Immersion heater back - up facility on COMBI PLUS models.

This complete range of NEW products are the result of the last 2 years of intensive research, development, and continuous testing to ensure these products are of the highest quality and efficiency. Our innovative new Y section inner waterway, has been designed specifically to achieve the best heat transfer result, coupled with a reduced internal boiler pressure, resulting in a cleaner start up. These new heat exchanger inners have also been upgraded to 5mm thick to give a better life span.

The Mistral Combination Range



Standard Combi

A Mistral combination boiler provides full heating, as well as instant hot water.

- Models CC1, CC2, CC3, CC4. 15 -14kw (50 -140,00 btu)
- Available as non condensing
- Front servicing
- Multi directional flue outlet
- Fits beneath standard kitchen work surface
- Conventional and balanced flue options
- High quality casings

Combi Plus

The Mistral Combi Plus boilers have the unique facility of having an immersion heater back-up facility installed, to provide hot water at the flick of a switch, in the event there may be a breakdown in the burner, or the appliance has a fuel problem. Available on all models.



Mega Combi

The Mistral Mega Combi are the largest available of their kind in the UK, with outputs up to 68kw. (232,000 btu). These are intended for larger properties such as country houses and barn conversions, swimming pools, or industrial units, where there is the need for a family to have a more commercial amount of heating and hot water available. For the convenience of installation, these units are in two parts.

CONDENSING COMBI PERFORMANCE

Model	CC1	CC2	CC3	CC4	CC5	CC6	CC7
KW	15-20	20-26	26-35	35-41	41-50	50-58	58-68
BTU	50-70,000	70-90,000	90-120,000	120-140,000	140-170,000	170-200,000	200-232,000
Flow Rates	17.5	17.5	17.5	17.5	27	27	27
@35 rise	130 lts	160 lts	240 lts	500 lts			
@40 rise				200 lts	230 lts	350 lts	600 lts
Dims	865 x	600 x	600		1230 x	1000 x	755
WGT - KGS	190	190	190	190	390	390	390

NON CONDENSING

Model	C1	C2	C3	C4	C5	C6	C7
WGT - KGS	175	175	175	175	375	375	375

*Tests carried out at Mistral Boilers relating to performance are for guidance only, and are not a guarantee, as local conditions, and the setting up of the appliance can have a varying effect on the result.

Sealed System Range

Kitchen / Utility Range



This compact range of boilers come factory fitted with the following sealed system components, including circulating pump, expansion vessel, safety valve, pressure gauge and automatic air vent.

- Models CS 1, CS2, CS3, CS4. 15 - 41kw (50 - 140,000 btu)
- Available as non condensing units
- Front servicing
- Multi directional flue outlets
- Fits beneath standard kitchen work surface
- Conventional and balanced flue options
- High quality casings

CONDENSING

Model	CS 1	CS2	CS3	CS4
KW	15-20	20-26	26-35	35-41
BTU	50-70,000	70-90,000	90-120,000	120-140,000
H	865	865	865	865
W	495	495	495	495
D	600	600	600	600
WGT - KGS	145	145	145	145

NON CONDENSING

Model	S1	S2	S3	S4
WGT - KGS	130	130	130	130

As the name implies, this stylish range of boilers are suited for either kitchen or utility applications. They are extremely quiet in operation, and the front access makes for easier servicing.

- Models CKUT1, CKUT2, CKUT3, CKUT4, CKUT5, CKUT6, CKUT7
- Output from 15 - 68kw (50 - 232,000 btu)
- Fits beneath standard kitchen work surface. 15 - 41 kw. (50 - 140,000 btu)
- Available as non condensing
- Front Servicing
- Multi directional flue outlets
- Conventional and balanced flue options
- High quality casings
- Suitable for sealed systems.

CONDENSING

Model	CKUT1	CKUT2	CKUT3	CKUT4	CKUT5	CKUT6	CKUT7
KW	15-20	20-26	26-35	35-41	41-50	50-58	58-68
BTU	50-70,000	70-90,000	90-120,000	120-140,000	140-170,000	170-200,000	200-232,000
H	865	865	865	865	1230	1230	1230
W	495	495	495	495	500	500	500
D	600	600	600	600	755	755	755
WGT - KGS	140	140	140	140	250	250	250

NON CONDENSING

Model	KUT1	KUT2	KUT3	KUT4	KUT5	KUT6	KUT7
WGT - KGS	125	125	125	125	235	235	235

The Mistral Outdoor Range

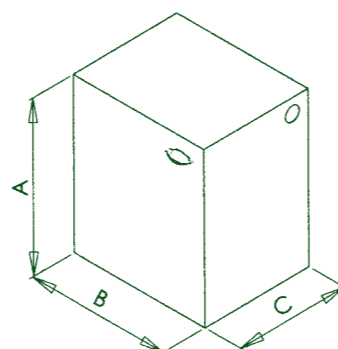
The Mistral Outdoor range is the largest available in the UK, and has grown consistently in popularity over the last 5 years. This is the ideal solution for those applications where space is at a premium.

All models are self contained weather resistant units, which are pre-treated, zinc phosphated for corrosion protection, then polyester coated in a durable green texture, allowing them to blend naturally with their external surroundings.

They are simple to install, have multiple access points for pipework / electrics, and come complete with control stat, high limit and frost stat. (no frost stat on combi)

- All our range is available as outdoor models
- Available as non condensing units
- Front servicing
- Free up space within the property
- No oil line entering building
- Serviceable even when householder is out
- Double locked front door
- Frost protected (except combi)
- No external fixings
- Plug and go design
- Stylish and practical casing - easy on the eye
- Multi directional flue outlets

Dimensions	A	B	C
Models 15-41kw	895	770	680
Standard 41-68kw	1245	650	775
Mega Combi 41-68kw	1245	1300	775



Standard Outdoor

Range: 15 - 68kw (50 - 232,000btu)
 Models: COD1, COD2, COD3, COD4, COD5, COD6, COD7.



Sealed System Outdoor

Range: 15 - 41kw (50 - 140,000btu)
 Models: CODSSI, CODSS2, CODSS3, CODSS4.



Combi Outdoor

Range: 15 - 41kw (50 - 140,000btu)
 Models: CCOD1, CCOD2, CCOD3, CCOD4.



Mega Combi Outdoor

Range: 41 - 68kw (140 - 232,000btu)
 Models: CODMC5, CODMC6, CODMC7.



Combi Plus Outdoor

Range: 15 - 68kw
 Add PLUS to the above codes.





The Mistral Kwic Loc Balanced Flue System

Standard Balanced Flue Kit - BFK - 4065

The Mistral KWIC - LOC balanced flue system has been designed to ensure a smooth and easy assembly operation can take place, by utilizing the o ring seals which allow the parts to simply slide together, thereby saving valuable installation time. The system is suitable for a variety of applications, and come in varying lengths for your convenience.

NOTES:

- Suitable for condensing and non condensing applications
- Can be fitted to all standard and combi boilers manufactured by Mistral, except outdoor models, which are supplied with their own flue.
- All our units are now multi - directional, and are contained within the casing, to improve the cosmetic appearance and help retain efficiency.
- If the dimensions are close, we recommend you order a 150mm extension, which will ensure a good seal, and help to retain flue strength.
- The flue system covers 2 ranges of products, identical, except for the diameter.

Range 1/ 120mm dia. 15 - 41 kw = 50 - 140,000 btu code prefix = 1541
2/ 150mm dia. 41 - 68 kw = 140 - 232,000 btu code prefix = 4168

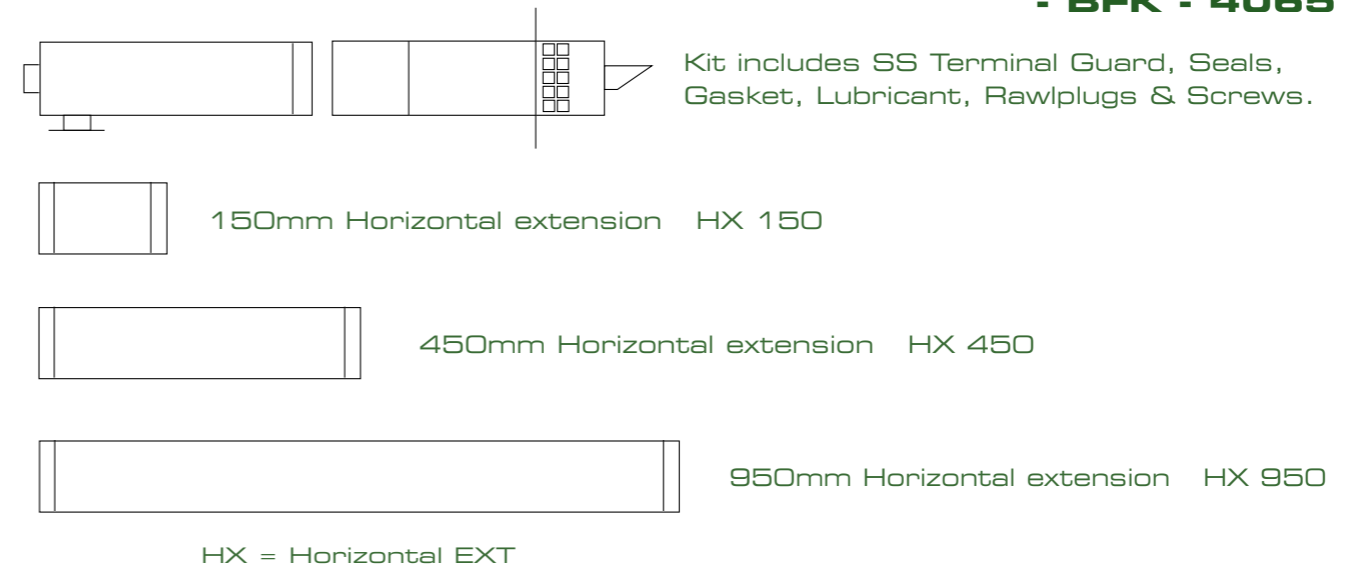
When ordering flue, please use the coded prefix from above, as well as the coded part on the following page.
e.g.

1/ A balanced flue kit for a 21 kw boiler (70,000 btu) 1541 - BFK - 4065
2/ A 450mm long horizontal extension for a 58 kw boiler (200,000 btu) 4168 - HX - 450

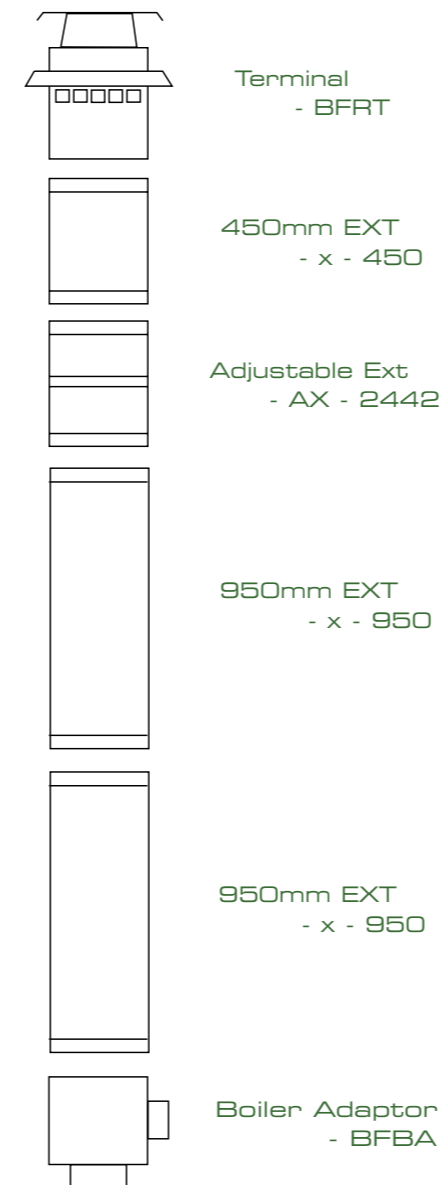
Output	Condensing	Non-Condensing
15 - 21kw 50 - 70,000	6m	5m
21 - 26kw 70 - 90,000	6m	4m
26 - 31kw 90 - 120,000	6m	4m
31 - 41kw 120 - 140,000	5m	3m
41 - 50kw 140 - 170,000	5m	2m
50 - 58kw 170 - 200,000	5m	2m
58 - 68kw 200 - 232,000	5m	2m

Please deduct 1/2 metre per 45 degree elbow - 1 metre per 90 degree elbow.

If you are in any doubt about the information given in our KWIC - LOC flue system. do not hesitate to contact our sales / technical staff.

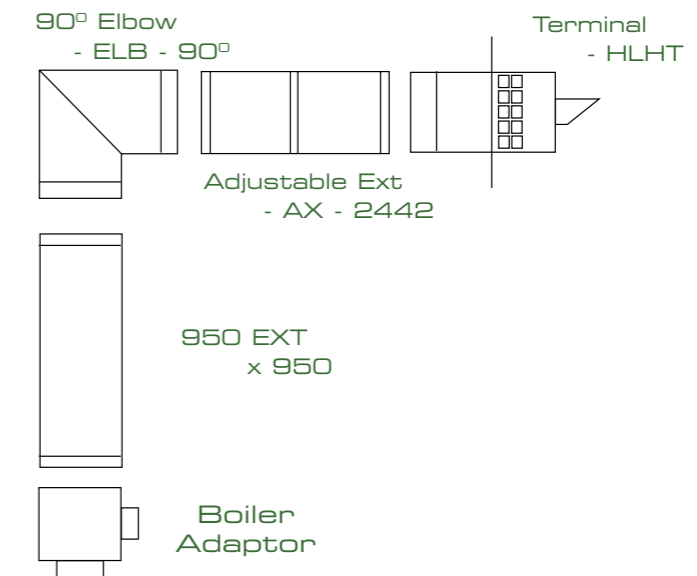


3000mm Roof terminal kit -VK-3000

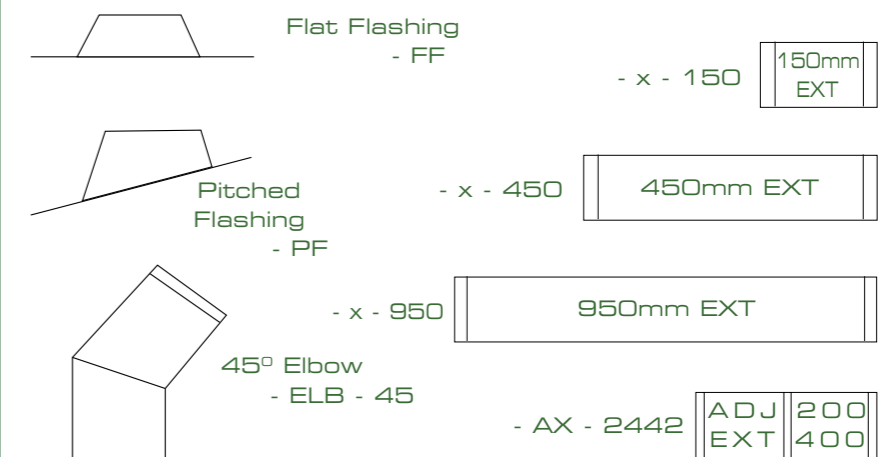


X = Vertical EXT

1100mm high level horizontal kit -HHK-1100 CTR



Vertical & high level horizontal kit options



Extensions will fit horizontally or vertically on VK or HHK kits.

Commercial Cast Iron

A robust range of cast iron sectional boilers suitable for the larger domestic property or for many commercial applications.

- Available to run on forced gas, 35 sec oil, 28 sec oil or dual fuel
- Can be delivered pre-assembled
- High quality commercial standard casings Outputs from 78,000 BTU's up to 317,000 BTU's
- For further information regarding higher output, contact our sales office



Mistral have been manufacturing Sedbuk A rated, high efficiency boilers for a number of years. We have used our experience in this field to create our new Y section inner heat exchanger. These have been tested considerably over the last 2 years, and have been very well received.

The unique Y section central waterway design feature, allows excellent heat transfer to take place, particularly in the lower chamber, which reduces the pressure build up normally associated with, non central waterway heat exchangers. The baffles therefore, can be made to a greater tolerance, allowing for a much better overall running performance, smoother start-up, and cleaner combustion.

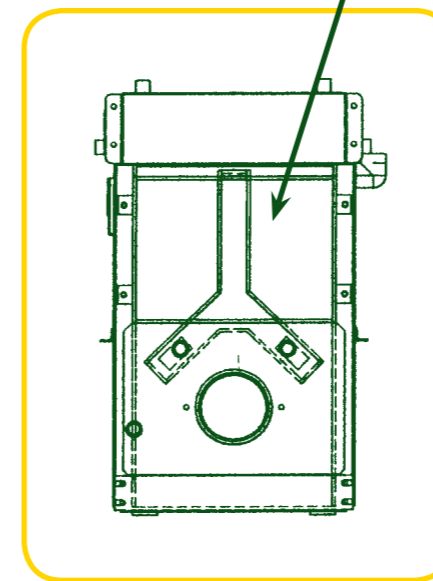
Baffles on non central waterway heat exchangers, usually have to be extremely tight to attain higher efficiencies, therefore increasing the likelihood of soot build up in the chamber.

TECHNICAL DATA

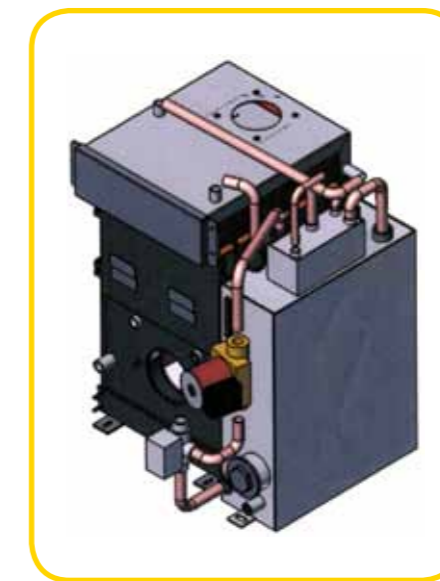
NUMBER OF SECTIONS		02	03	04	05	06	07	08
Heat (Gross) gas	max.kw	28,6	43,0	57,3	71,6	86,1	100,4	114,7
	min.kw	18,2	18,2	39,3	49,1	59,1	68,8	78,6
Heat (Net)Gas + Oil	max.kw	25,8	38,7	51,6	64,5	77,5	90,4	103,3
	min.kw	16,4	16,4	35,4	44,2	53,2	62,0	70,8
Heat Output	max.kw	23,3	34,9	46,5	58,1	69,8	81,4	93,0
	min.kw	15,0	15,0	32,5	40,5	48,8	57,0	65,0
Sections	n°	2	3	4	5	6	7	8
Water Content	dm ³	11	14	17	20	23	26	29
Combustion Chamber	Length mm	286	386	486	586	686	786	886
	dimension ø mm	260x310	260x310	260x310	260x310	260x310	260x310	260x310
Working Pressure	bar	4	4	4	4	4	4	4
A boiler length	mm	300	400	500	600	700	800	900
B blast tube diameter	mm	105	105	105	105	125	125	125
ø Flue Diameter	mm	130	130	130	180	180	180	180
Pressure Drop Combustion Chamber	Load loss Δp mbar	0,2	0,2	0,2	0,2	0,2	0,2	0,2
	volume dm ³	12,09	20,15	28,21	36,27	52,39	60,45	68,51
Water Load Losses	Δt 10°	1	1,8	4,2	7,2	11	15	20
	Δt 20°	-	-	1	1,6	2,3	3,3	4,5
Weight of Unit	kg	75	100	125	150	175	200	225

N.B. Max. water temperature for the heating system is 90°C. Min. water temperature for the heating system is 45°C.

INNER Y



COMBI



WARRANTY

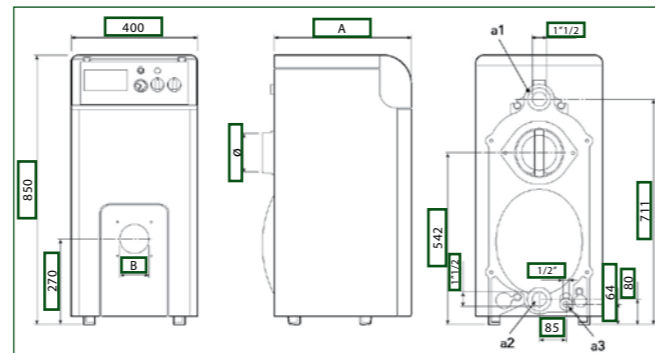
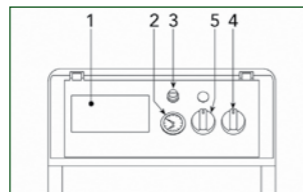
Heat exchanger - 5 years **(terms and conditions apply)**
 Burner and controls - 1 year

Safety

Please note that the products are extremely heavy, and great care should be taken when moving appliances around. Specialist equipment should be used where possible, and a full risk assessment, and plan of action should be undertaken, prior to purchase to avoid any injury.

KEY

1. Timer socket
2. Thermomanometer
3. High limit thermostat - manual reset
4. Main Switch
5. Control Thermostat



The boiler body is built by cast iron sections joined together by means of high density fibres. The section fins are especially developed to achieve the best efficiency of the boiler.

We would like to thank you for taking the time to read through our product catalogue and hope you have found something which meets your requirements.

Mistral are one of the longest standing manufacturers of oil fired boilers and associated products in the UK.

It is our Company policy to create continual improvement, and as such, are always open to new ideas. We also strive to source and purchase all our materials from the UK, wherever possible.

If you require any more advice or guidance on any of our products, please feel free to contact our customer service department.



Complies with the EC low voltage and electromagnetic compatibility and efficiency directives.



With high efficiencies and low emissions the Mistral range of oil fired boilers are environmentally friendly and as a result economical to run.



Registered equipment group member of the oil firing technical association for the petroleum industry.



**British Made
Quality
Products**



All our manufacturing is carried out under a stringent quality control system to ISO9001 and monitored by the British Standards Institute.

Our sales / technical / customer services department are usually available between the hours of 8.00 am. 6.00 pm. Monday to Friday, and Sat. 9.00 - 12.00 pm.

They will be happy to give assistance and advice on all our products, and associated components.

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Mistral boilers maintain a policy of continuous product improvement and in order to stay at the forefront of boiler technology reserves the right to alter specifications without notice. The statutory rights of the consumer are not affected. All information correct at time of going to press.

Terms & Conditions of Warranty are available on request.