

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).

Non Condensing

The full range of Mistral internal and external Utility, Systems and Combi boilers 15-68kw are available as non condensing standard efficiency models with either a 2 or 4 port option.

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



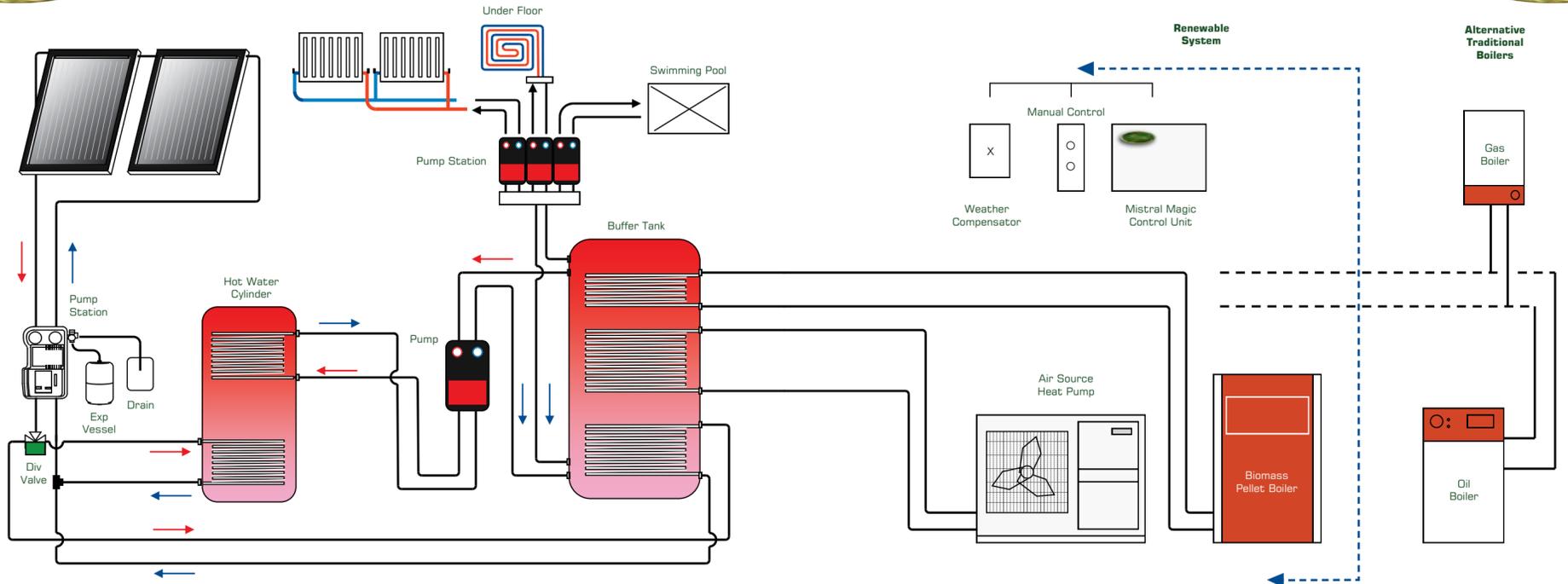
A quality range of boilers from 15 - 68 kw (50 - 232,000 btu). Models 15 - 41 kw (50 - 140,000 btu) fit neatly under a standard kitchen work surface.



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 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 Combo System



Whether it is climate change, emission reduction or simply rising energy costs, everyone will want to consider the Mistral Combo System to help resolve the current issues we all face when considering the provision of hot water and heating.

The 'Mistral Combo' System

A professional complete system configuration fully supplied by Mistral, for the person who is serious about getting the best value and efficiency to meet their energy requirements. Using economical and highly efficient products, you can have a hot water and heating system run either part or entirely on renewable technology, thereby giving lowest carbon emissions, whilst still meeting your household needs. The technology behind this is the 'Mistral Magic' control unit. This specifically designed computer programmed control unit allows the individual systems to co-ordinate between each other to achieve best results, working also with a weather compensator for further enhanced performance. Although there can be variations, the 'Mistral Combo' system including all Mistral approved products as above, operates as follows;

Hot Water

Solar panels heat up the twin coil solar cylinder. When this is at the required temperature, a diverter valve will open to allow the triple coil buffer tank to be heated through the lower coil. The buffer tank can be used to supply extra hot water back to the cylinder, give pre-heated water for the heating system, or help heat a swimming pool. When up to temperature, the solar system can simply shut down.

When hot water is used, reducing the temperature in the solar cylinder, the 'Mistral Magic' control unit will switch the solar pump back on to this tank to replenish it in the first instance.

If the solar cylinder temperature falls to a pre-determined level and this cannot be replaced by the solar system, the control unit will switch over to the buffer tank to supply the solar cylinder thus providing access to substantially more available water. This could be further supported if necessary by the heat system supplying the buffer tank.

Heating System

Pre heating the Buffer tank by the solar panel system, clearly gives an advantage to reducing heating costs, as well as giving extra available hot water potential.

Our triple coil Buffer tank will generally supply either radiator panels, an u/floor system, or a combination of both for household heating. It can also be split off to help heat a swimming pool complex.

Air Source Heat Pumps (A.S.H.P.) have been chosen as the preferred main heat unit and they can be run in series to achieve higher outputs. A more detailed explanation can be found under the section Heating Systems.

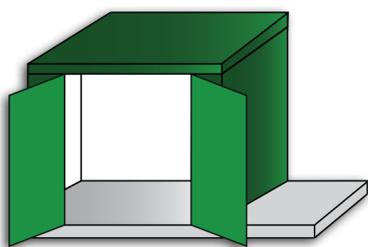
As with most renewable heat units, they are less efficient in winter conditions and may not continuously provide total requirements. We therefore strongly recommend it is further backed up by either a biomass, gas or oil boiler. This is what makes the 'Mistral Combo' system complete. All your needs all year, using the appliances when they give their best return.

The fully designed system, operated by the 'Mistral Magic' control unit will give the best all year round use of the various technologies available now.

Get a complete system delivered to your door ready to install.

The Mistral Outdoor Combo System

Outdoor Modular Heat Station



Outdoor Modular Heat Station

This unit is designed to incorporate the Combo systems available from Mistral, when space indoors is limited, however can be used to provide a housing unit for any bespoke system, even including perhaps a plant room for a swimming pool complex, and therefore can be purchased as an individual product.

Made from solid mild steel panels, easy to assemble on site, pre-treated and powder coated in a green textured finish to provide better weather protection, the units are modular, although the standard system size is 2500mm x 1250mm x 2200mm high approx. Large front doors make this unit easily accessible for maintenance of the system.

The Station comes as basic, with the following optional extras; Full insulation pack, 6 way waterproof electrical consumer unit with 40 amp main breaker, 4 fuses 20,20,16 and 6 amps, waterproof light and switch, waterproof plug sockets x 2, isolator switches x2 off.

Mistral Outdoor Combo 1

This has been developed specifically to overcome the potential problem of lack of free space within a house or garage when deciding to fit a complete 'Mistral Combo 1' system.

It can be a great way of locating all your heating and hot water systems under one roof, but not taking valuable space from within the property.

Servicing and maintenance is much easier when everything is located together.

The housing unit would be fixed down to a concrete base, close to the property for ease of getting the pipework from the collector panels to the Station.

Internal pre-punched locating panels make the sub assembly of the system parts easy to fit. All optional extras listed above are available.

No more finding a cupboard to empty, to fit a cylinder in!!!

Mistral Outdoor Combo 2

This has to be the ultimate system available at present.

A 'Mistral Combo' system complete with solar collector panels attached to the roof of the housing unit. Up to a 2 panel set up, to put anywhere in your garden that suits.

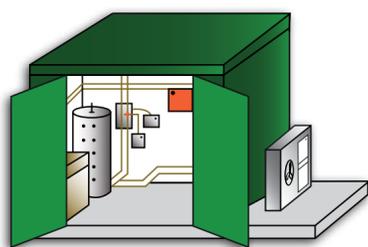
Many people object to collectors on the roof making their property unsightly, as well as taking into account the cost of scaffolding and labour.

No more issues nor extra expense with East/West kits. You do not have to worry whether your house faces the right way, providing you can fit the Combo 2 anywhere you like within your property boundary, subject to local planning approval if needed.

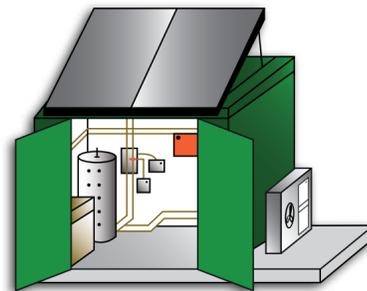
Also ideal for listed buildings, to prevent the external appearance being altered.

Please consult local planning to confirm whether planning permission is needed.

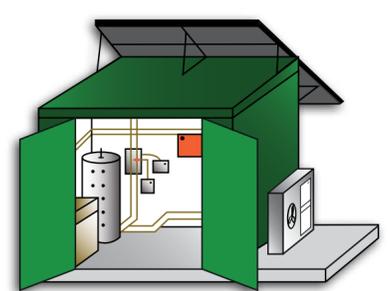
Mistral Outdoor Combo 1



Mistral Outdoor Combo 2



Mistral Outdoor Combo 3



Mistral Outdoor Combo 3

Identical to the Combo 2, except the solar panels are rear facing.

The 'Mistral Combo' System

The Full System referred to in this brochure would comprise of the following;

Solar panels, insulated pipework, pump station, intermediate vessel, pressure vessel, drain container, twin coil hot water cylinder, triple coil buffer tank, circulation pump sets, pipework kits, Air source heat pump, 'Mistral Magic' controller, manual controller, weather compensator and a back up boiler, such as a biomass (Pellet boiler), or a more traditional unit such as a Gas or Oil boiler.

You can have the lot, or just a part of the system to suit.

Although we recommend the Air Source Heat Pump unit as the main provider to the system, this has been primarily for financial reasons versus return on investment.

There is no reason why the main provider cannot be Ground Source or Pellet Boilers and if this is your preferred choice, we are happy to provide any of these as part of the package.

Conclusion

Mistral hope that the 'Combo' system can bring to you a complete package which takes into account the initial cost, the limitations of individual products and the needs of your family requirements throughout the year.

The majority of the Mistral Combo system can be fitted anywhere in the house where space is available, such as a boiler, or plant room. It may also be preferable to consider installation in a garage. If these options are not available to you, then consider the Modular Heat Station as a solution to giving that extra room.

If there is any further information you would like, please do not hesitate to contact us for advice. As a specifier, builder, architect, or a merchant Your Customer Needs this System.

Tel: 01952 270082
mistralboilers@aol.com

Fax: 01952 270086
www.mistralboilers.com

Mistral Energy Products Ltd, Unit C3, Halesfield 23, Telford, Shropshire TF7 4NY