

ferroli

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Modena HE High efficiency condensing combination and system boilers



**High efficiency
Condensing combination boilers**

27c, 32c & 38c

System boilers

18s, 25s and 32s

21st century design for 21st century life



Modena HE

High efficiency combination and system boilers



Ferroli is one of Europe's leading manufacturers of heating solutions for domestic, commercial and industrial requirements. We pride ourselves on using the latest technological advances to achieve optimum energy efficiency whilst ensuring environmental protection. This means that when you choose a new Ferroli high efficiency condensing boiler for your home, you can be assured that you have chosen one of the most sustainable and cost-effective ways to generate heat and hot water.

We also understand that reliability is your number one concern and that is why the Modena HE range is available with the choice of a 5, 7 or 10 year full parts and labour manufacturer's warranty*.

Reliability reassurance with



*UK warranty is subject to terms and conditions – please refer to the document enclosed with the boiler or contact our service department for further information.



Modena HE

High efficiency boilers
Combination 27c, 32c and 38c
System 18s, 25s and 32s



All Modena HE boilers come with a 5 year manufacturer's parts & labour warranty, with the option to upgrade to a 7 or 10 year warranty.

Height 600mm, Width 400mm, Depth 320mm (38c Depth 350mm)

Weight 28kg (18s & 25s), 29kg (27c), 30kg (32s), 31.5kg (32c) and 33kg (38c)

Exceptionally low operating noise level

NOx Class 5* rated for extremely low emissions and high performance

Highly energy efficient for excellent fuel cost economy

Operates on both natural gas and LPG

Combi models have only 4 moving parts – DHW water flow meter, pump, fan and gas valve - and system models have only 3

Accessories available include valve cover, rear pipe space frame and a choice of mechanical or digital timers or radio-controlled room thermostats

Combi models condense in hot water mode

All components can be serviced or removed via front panel

Central flueing for easy replacement installations

Microprocessor control and adjustment system with advanced self-diagnosis

Please note: System models come without a timer.

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up to
37.1 kW
max
OUTPUT

38c DHW
flow rate
16.0 l/min
@ Δt 35°C

only
4
moving
parts

MODENA
comes with
**filling
loop**

optional
digital RF
programmable
room
thermostat

The Modena HE range sets a new standard for the domestic boiler market. It is the smallest, lightest and quietest boiler in its class and comes with the choice of a 5, 7 or 10 year full parts and labour manufacturer's warranty.

High SAP 2009 efficiency figures and NOx Class 5* emissions are proof that the Modena delivers what every customer wants – an exceptionally reliable boiler that combines high performance with lower fuel bills.

At just 600mm high the Modena can be sited in the most awkward of spaces; a lightweight of between 28kg and 33kg allows for one-man installation and an exceptionally low operating noise level means it can hardly be heard.

Technical specifications



| | | Combination | | | System | | |
|---|---------------|-------------|-----------|-----------|-----------|-----------|-----------|
| | | 27c | 32c | 38c | 18s | 25s | 32s |
| Ferroli product codes | | | | | | | |
| Natural Gas 5yr Warranty | | OT1R2AGA | OT1R3AGA | OT1R4AGA | OT2O1AGA | OT2O2AGA | OT2O3AGA |
| LPG 5yr Warranty | | OT1R2BGA | OT1R3BGA | OT1R4BGA | OT2O1BGA | OT2O2BGA | OT2O3BGA |
| NO _x emissions class | | 5* | 5* | 5* | 5* | 5* | 5* |
| Energy marking rating (92/42 EEC directive) | | ★★★★ | ★★★★ | ★★★★ | ★★★★ | ★★★★ | ★★★★ |
| SAP 2009 annual/2005 seasonal efficiency % | NG | 89.2/90.3 | 89.2/90.3 | 89.1/90.3 | 89.2/90.2 | 89.3/90.4 | 89.3/90.4 |
| | LPG | 90.2/92.2 | 90.2/92.2 | TBC | 90.3/92.3 | 90.3/92.3 | 90.3/92.3 |
| Output max/min | | | | | | | |
| Heat input | kW | 25.0/5.8 | 29.5/6.7 | 35.0/7.0 | 17.4/4 | 25/5.8 | 32/6.07 |
| Useful heat output 80°C – 60°C | kW | 24.5/5.7 | 28.9/6.6 | 34.3/6.9 | 17/3.9 | 24.5/5.7 | 31.4/6.6 |
| Useful heat output 50°C – 30°C | kW | 26.5/6.2 | 31.3/7.2 | 37.1/7.5 | 18.5/4.3 | 26.5/6.2 | 34/7.2 |
| Central heating | | | | | | | |
| Maximum operating temperature | °C | 80 | 80 | 80 | 80 | 80 | 80 |
| Operating pressure central heating | Max. bar | 3 | 3 | 3 | 3 | 3 | 3 |
| | Min. bar | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Expansion vessel capacity | litres | 8 | 10 | 10 | 8 | 8 | 10 |
| Expansion vessel pre-fill pressure | bar | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Boiler water content | litres | 1.7 | 2.1 | 2.4 | 1.7 | 1.7 | 1.7 |
| DHW | | | | | | | |
| Maximum DHW production | Δt 25°C l/min | 15.5 | 18.3 | 21.8 | - | - | - |
| | Δt 30°C l/min | 12.9 | 15.3 | 18.0 | - | - | - |
| | Δt 35°C l/min | 11.1 | 13.1 | 16.0 | - | - | - |
| Operating pressure DHW | Max. bar | 9 | 9 | 9 | - | - | - |
| | Min. bar | 0.3 | 0.3 | 0.3 | - | - | - |
| Dimensions & weights | | | | | | | |
| Height | mm | 600 | 600 | 600 | 600 | 600 | 600 |
| Width | mm | 400 | 400 | 400 | 400 | 400 | 400 |
| Depth | mm | 320 | 320 | 350 | 320 | 320 | 320 |
| Weight (empty) | kg | 29 | 31.5 | 33 | 28 | 28 | 30 |
| Fittings | | | | | | | |
| Gas fitting | mm | 22 | 22 | 22 | 22 | 22 | 22 |
| Central heating fittings | mm | 22 | 22 | 22 | 22 | 22 | 22 |
| DHW circuit fittings | mm | 15 | 15 | 15 | - | - | - |
| Power supply | | | | | | | |
| Max power input | W | 100 | 120 | 140 | 100 | 100 | 100 |
| Power supply voltage/frequency | V/Hz | 230V/50Hz | 230V/50Hz | 230V/50Hz | 230V/50Hz | 230V/50Hz | 230/50 |
| Index of protection | IP | IPX5D | IPX5D | IPX5D | IPX5D | IPX5D | IPX5D |
| Maximum equivalent flue lengths | | | | | | | |
| Max horizontal flue length 60/100mm Ø | m | 7 | 7 | 6 | 7 | 7 | 7 |
| Max vertical flue length 60/100mm Ø | m | 8 | 8 | 7 | 8 | 8 | 8 |
| Max horizontal flue length 80/125mm Ø | m | 28 | 28 | 25 | 28 | 28 | 28 |
| Max vertical flue length 80/125mm Ø | m | 28 | 28 | 25 | 28 | 28 | 28 |
| Total equivalent length two pipe 80mm Ø | m | 80 | 70 | 60 | 70 | 70 | 70 |
| | | | | | | | |
| Filling loop | | Yes | Yes | Yes | No | No | No |
| Hanging bracket | | Yes | Yes | Yes | Yes | Yes | Yes |
| Pre-wired mains cable supplied | | Yes | Yes | Yes | Yes | Yes | Yes |



7 and 10 year warranty upgrades are available by purchasing a Warranty Upgrade Pack from the merchant at the same time as the boiler. Upgraded warranties must be activated by the installer when the boiler is registered via Ferroli's loyalty club Installersmate.



Robust stainless steel burner for long life

Optional external temperature sensor kit

Dry fit sensors mean they can be replaced without draining the system

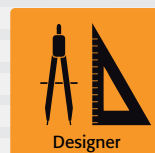
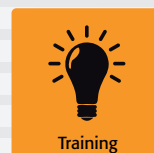
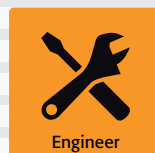
Flexible flue options from coaxial single pipe to twin pipe; white or translucent options for visual inspection in voids

Heat exchanger can be chemically cleaned and flushed in situ on both DHW and central heating



Free backup

with every Ferrolì boiler



Ferrolì offers a complete one-stop-shop solution

We pride ourselves on being able to offer much more than simply high specification, value for money products.

We aim to provide our customers with unbeatable knowledge, support and service that extends beyond the sale of the product.

SPECIFICATION AND TECHNICAL SUPPORT

Installers, merchants, specifiers and developers can call Ferrolì's technical support team at any time for specification guidance or technical support.

AFTERSALES

With a national team of dedicated engineers across the UK, Ferrolì is always ready and able to provide support to installers and homeowners alike. Be that a repair or annual service, our aim is to ensure your Ferrolì boiler works efficiently for years to come.

Ferrolì engineers carry a comprehensive stock of spare components to ensure first fix where possible and we also have a nationwide network of Ferrolì spare part stockists.

Service & Technical Support

T: 0330 205 0005

F: 0843 479 0082

Sales & Spares

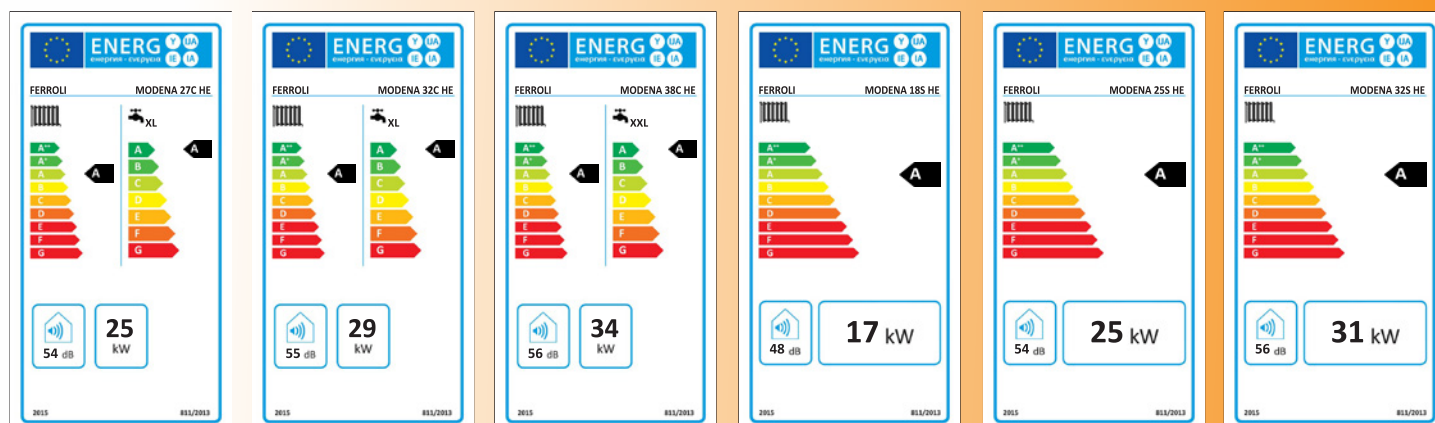
T: 0330 205 0002

F: 0843 479 0081

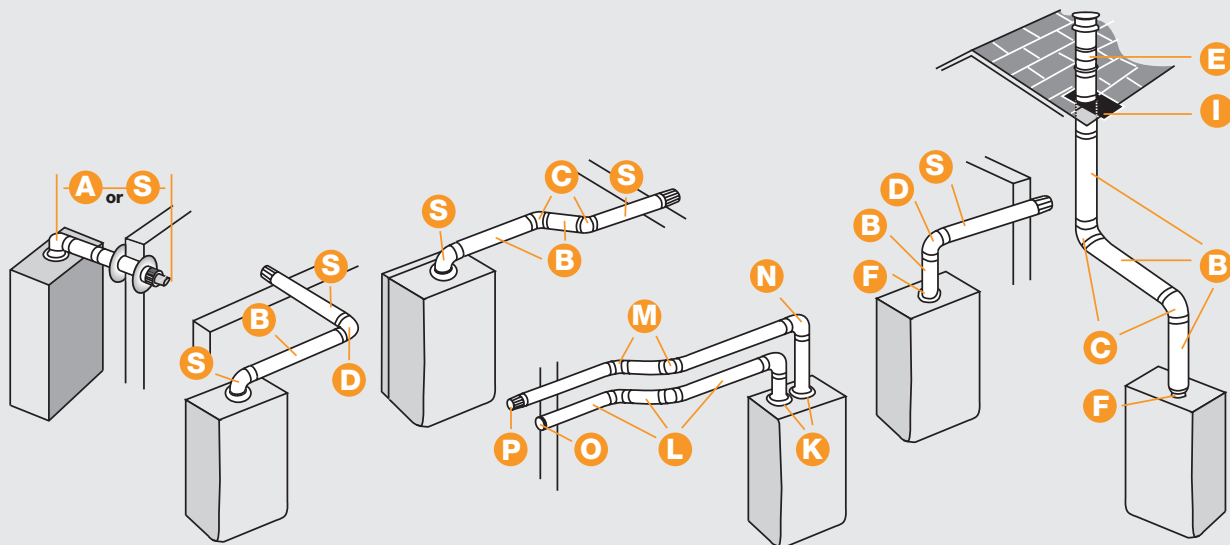
General Enquiries

T: 0330 205 0000

ErP Energy Labels The new ErP Directive on energy labels relating to boilers came into force on 26th September 2015. These are the energy labels for the Modena HE range of combination and system boilers.



Flues

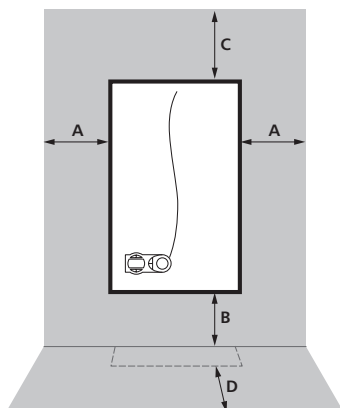


Essential to the boiler's operation is the availability of fresh, clean air and the ability to dispose of combustion products. This is achieved through the installation of a flue which provides ducts to the outside of the premises.

To optimise safety and performance, Ferroli flues must always be used with Ferroli boilers. Ferroli has a comprehensive range of accessories to suit complex installations and to enable the extension of flue lengths. The diagram above shows typical flueing options.

Clearances

| | |
|---|---|
| A | 0.5cm (minimum) |
| B | 20cm (minimum) |
| C | 30cm (minimum) |
| D | 60cm (minimum) via an openable panel |



Accessories

Manufacturer's Ref

| | | |
|---|---|----------|
| A | Telescopic Flue 60/100mm – nominal length 610mm | 041049G0 |
| B | Flue Extension 60/100mm Ø – nominal length 1m | 1KWMA57W |
| C | Elbow 45°– 60/100mm Ø | 1KWMA64W |
| D | Elbow 90°– 60/100mm Ø | 041051X0 |
| E | Flue Vertical Termination 60/100mm Ø | 1KWUK356 |
| F | Appliance Adaptor for Vertical Flue 60/100mm Ø | 041002X0 |
| G | Bracket – Flue Support 100mm Ø | 1KWMR46A |
| H | Roof Flashing Plate – Flat Roof Ø | 1KWMA81U |
| I | Roof Flashing Plate – Pitched Roof Ø | 1KWMA82U |
| J | Plumbing Kit – 60/100/60mm Ø (with flue kit combined) | 041042G0 |
| K | Appliance Adaptor (Pair) for Twin 80mm Ø | 041039X0 |
| L | Flue Extension 80mm Ø – nominal length 1m | 222952 |
| M | Elbow 45°– 80mm Ø | 222954 |
| N | Elbow 90°– 80mm Ø | 222955 |
| O | Terminal (Air Intake) for Twin 80mm Ø Horizontal | 1KWMA85A |
| P | Terminal (Flue Exhaust) for Twin 80mm Ø Horizontal | 1KWMA86A |
| Q | Bracket – Flue Support 80mm Ø | 1KWMR48A |
| R | Flue Vertical Termination Twin Connection 80mm Ø | 010027X0 |
| S | Standard Rigid Flue Kit 60/100mm – 1m | 041025G0 |

Please contact Ferroli Sales for other 80/125 mm Ø flue options and accessories not shown.

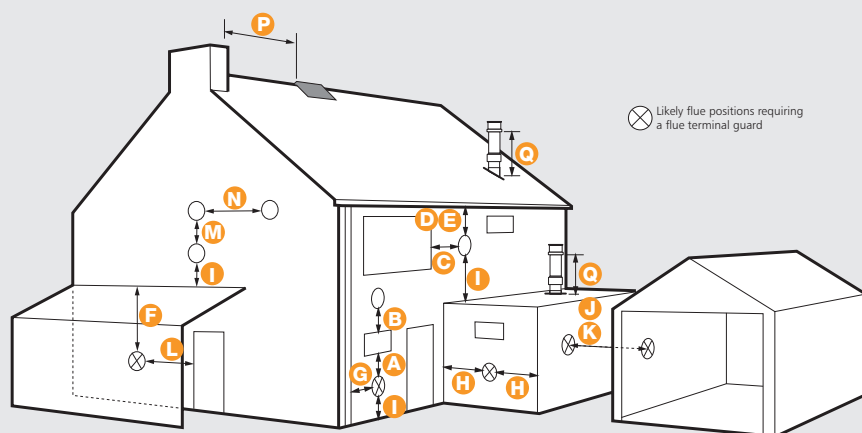
Note For non standard flue lengths over 1m a fall of 3° per metre per length should be incorporated back to the boiler. Consult manufacturer's installation instructions for full guidance and options for flueing.

Boiler Control and Accessory Options

Manufacturer's Ref

| | |
|--|------------|
| Digital Timer (diameter 61.5mm) | ZU013021XA |
| Mechanical Timer | ZU0800510 |
| Digital RF Programmable Room Thermostat | ZU0800009 |
| Mechanical RF Programmable Room Thermostat | ZU0800013 |
| Rear Pipe Space Frame (depth 65mm) | 056000G0 |
| Valve Cover | 046035G0 |
| External Weather Compensator (combi only) | 013018X0 |

Flue terminal positions



Notes

In addition, the terminal must not be nearer than 300mm to an opening in the building fabric formed for the purpose of accommodating a built-in element such as a window frame.

Condensing terminal positions: if the flue is to be terminated at low level then the potential effect of the plume must be considered.

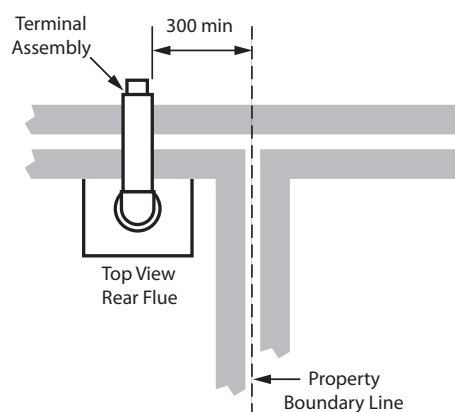
The plume should not be directed:

- across a frequently used access route
- towards a window
- across a neighbouring property

For more information on terminal positions please contact our technical department.

The distance from a fanned draught appliance terminal installed parallel to a boundary may not be less than 300mm in accordance with the diagram below.

| Flue Terminal Positions | mm |
|---|------|
| A Directly below an opening, air brick, opening windows etc. | 300 |
| B Above an opening, air brick, opening windows etc. | 300 |
| C Horizontally to an opening, air brick, opening windows etc. | 300 |
| D Below gutters, soil pipes or drain pipes | 75 |
| E Below eaves | 200 |
| F Below balconies or car port | 200 |
| G From a vertical drain pipe or soil pipe | 150 |
| H From an internal or external corner | 100 |
| I Above ground roof or balcony level | 300 |
| J From a surface facing the terminal | 600 |
| K From a terminal facing the terminal | 1200 |
| L From an opening in the car port (ie. door, window) into the dwelling | 1200 |
| M Vertically from a terminal on the same wall | 1500 |
| N Horizontally from a terminal on the same wall | 300 |
| O From the wall on which the terminal is mounted | N/A |
| P From a vertical structure on the roof | 150 |
| Q Above intersection with roof | 300 |



Mechanical RF Programmable Room Thermostat



+ RF Receiver (internal)



Digital Timer



Digital RF Programmable Room Thermostat



+ RF Receiver (internal)



Mechanical Timer

Rear Pipe Space Frame



Valve Cover



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Your local Ferrolì stockist



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Ferrolì Limited
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Branston Industrial Estate
Burton-upon-Trent
Staffordshire DE14 3HD

Ferrolì has been producing heating appliances and equipment since the 1950s. Today, their ultra-modern factories in Europe employ over 2,500 people and produce a wide range of wall hung, cast iron and welded steel boilers, making Ferrolì one of the largest and most successful heating appliance manufacturers in the world.

Modena/07.16

Training Well trained installers are the key to a safe and efficient heating system. We offer a choice of training and product awareness courses on our key product range, including the Modena HE, at Ferrolì's fully equipped training centre in Burton-upon-Trent and at specialist training locations across the UK. Courses are aimed at engineers of all levels to ensure that everyone comes away with the skills and knowledge needed to deliver the first class service that customers expect and deserve. For more details visit www.ferrolì.co.uk/training or ring 0843 479 0009.

Ferrolì Domestic Boilers Offering gas wall mounted units with outputs of up to 50kW, Ferrolì's stylish, compact domestic boilers provide maximum comfort with minimal fuel usage. With a choice of conventional, condensing and combi technologies, there's a boiler to match the heating and hot water requirements of every home.

Ferrolì Commercial and Industrial Boilers Ferrolì commercial boilers for pressure jet oil, forced air gas or dual fuel are factory matched with high efficiency burners to provide outputs of up to 12,350kW, whilst meeting the strictest emissions demands.

CONTACT US IN THE UK

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TWITTER

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Ferrolì Renewable Energy

Products Ferrolì continues to meet the latest demands for renewable energy technologies. From domestic air source heat pumps to drain back and pressurised solar systems, Ferrolì has the products to suit the most popular renewable energy system options.

Ferrolì Spares The popularity of Ferrolì as first choice for both domestic and commercial installations means that heating parts stockists offer readily available spares for Ferrolì boilers. Ferrolì has a UK-based fully stocked warehouse enabling same-day despatch of just about any part needed to keep your Ferrolì boiler running.

Calls to our 0330 numbers cost the same as a call to an 01 or 02 national number whether from a landline or mobile. Calls are also inclusive in any bundle you may have with your phone provider. Whilst every effort is taken to ensure the accuracy of the information contained within the brochure, the details are offered in good faith and Ferrolì Ltd. accepts no liability for matters arising as a result of errors and/or omissions. The information in this brochure was correct at the time of printing, however specifications and designs may be changed owing to Ferrolì's policy of continuous product research and development. The technical specifications in the product instruction manual supersede and should always be referred to during installation and maintenance. Reproduction of this publication, or any part, is not permitted without the written consent of Ferrolì Ltd at marketing@ferrolì.co.uk. The statutory rights of the consumer are not affected.