

WALL HUNG BOILERS



Brava Slim HE ErP
Brava One HE ErP
Brava One OF ErP



Brava ErP: small size, big performance



Brava Slim and Brava One are part of a new generation wall hung boilers, particularly compact and functional. They represent the ideal answer to the requirements of modern domestic environments where space must be used in the best possible way. Despite compact dimensions, they have technical solutions and features belonging to

superior classes of product; we are, therefore, proud to assert that they are small in size, but big on performance.

The elegant design and ease of use help improve the user experience who will appreciate the quality and reliability in time, that Sime incorporates into all of its products.

Family
Brava Slim HE ErP



Family
Brava One ErP



The range

| Power | BRAVA SLIM HE ErP | | | BRAVA ONE HE ErP | BRAVA ONE OF ErP * |
|-------|-------------------|---------------|---------------------------|------------------|--------------------|
| | heating only | instantaneous | with D.H. W. storage tank | instantaneous | instantaneous |
| 25 | ✓ | ✓ | ✓ | ✓ | ✓ |
| 30 | | ✓ | ✓ | ✓ | |
| 35 | | ✓ | | | |
| 40 | | ✓ | | | |

* open flue chamber versions

Product advantages

- › Extremely compact dimensions
- › All boilers are equipped with two heat exchangers
- › Brass hydraulic unit with DIN standard connections
- › Casing in three pieces
- › DHW management with dual probe
- › Combustion control with electronic feedback loop and electronic gas valve
- › Possibility for external or built-in installation using special accessories or kit

Amazing dimensions for its potential

The particularly compact dimensions are the most evident feature of the new Brava Slim HE ErP and Brava One ErP: 70 cm x 40 cm x 25 cm up to 35 kW model!

For example, by comparing the condensation versions with previous models, there is an average reduction of 30% of the volume. A truly remarkable result.

| CONDENSING | | | | |
|--------------|-----|-----|-----|-----------------|
| | A | L | P | Rispetto a DGT* |
| 25 HE ErP | 700 | 400 | 250 | -28% |
| 30 HE ErP | 700 | 400 | 250 | -28% |
| 35 HE ErP | 700 | 400 | 250 | -40% |
| 40 HE ErP | 700 | 400 | 300 | - |
| 25/55 HE ErP | 950 | 600 | 460 | - |
| 30/55 HE ErP | 950 | 600 | 460 | - |
| CONVENTIONAL | | | | |
| 25 OF ErP | 700 | 450 | 250 | -20% |

* in volume

The particularly compact dimensions of Brava Slim and Brava One offer maximum assembly reliability: all models from 25 to 35 kW, condensing, are suitable for outdoor installation or built-in a wall, by using simple accessories.

| | SLIM | ONE |
|---|------|-----|
| Built-in cabinet or casing for outdoor installation | ★ | ★ |
| Sime Home Plus remote control | ★ | ★ |
| Cocks kit | ★ | ★ |
| Anti-freeze kit -15°C | ★ | ★ |
| Outdoor probe | ★ | ★ |
| Automatic filling kit | ★ | |
| Solar kit (thermostatic valve) | ★ | |

★ Necessary accessories

★ Optional accessories



You'll sleep easy

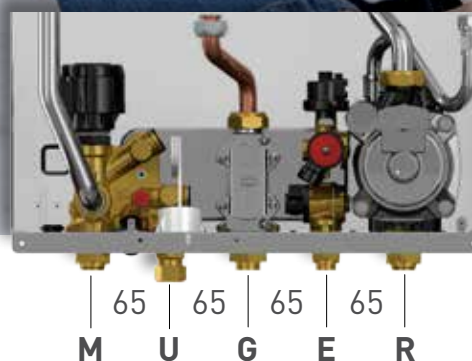
With Brava Slim HE ErP and Brava One ErP, Sime uses the brass hydraulic unit on all boilers in the range. Brass stands for quality, reliability, and durability and guarantees a peaceful sleep.

The new hydraulic unit introduces a new sequence of the connection manifolds according to DIN Standard. This is used by the majority of the European manufacturers and gives maximum installation flexibility of Brava Slim HE ErP and Brava One ErP.

HYDRAULIC CONNECTIONS

| | | |
|----------|---------------|-------------|
| M | System flow | 3/4" |
| U | D.H.W. outlet | 1/2" |
| G | Gas supply | 3/4" |
| E | D.H.W. inlet | 1/2" |
| R | System return | 3/4" |

Specific cocks and curves kit are available to fit the new boilers to previous Sime installations



The perfect complement for Brava in outdoor or built-in version, are the new Sime Home remote controls, designed for perfect integration with the boilers.

The elegant and linear design fits in any environment and the exclusive functions allow the total control of the system and of the boiler.



| | SIME HOME | SIME HOME PLUS |
|---|-----------|----------------|
| High resolution dot matrix display | ✓ | ✓ |
| White back-lighting | | ✓ |
| Weekly heating programming | ✓ | ✓ |
| Weekly D.H.W. storage tank programming | | ✓ |
| Climate regulation on outdoor and indoor sensor | ✓ | ✓ |
| Remote control of boiler parameters | ✓ | ✓ |
| System operation parameter display | ✓ | ✓ |
| Advanced boiler diagnostics with advise | | ✓ |
| Contact for telephone dial | | ✓ |
| Indication of earnings from solar circuit | | ✓ |

To every action the perfect reaction

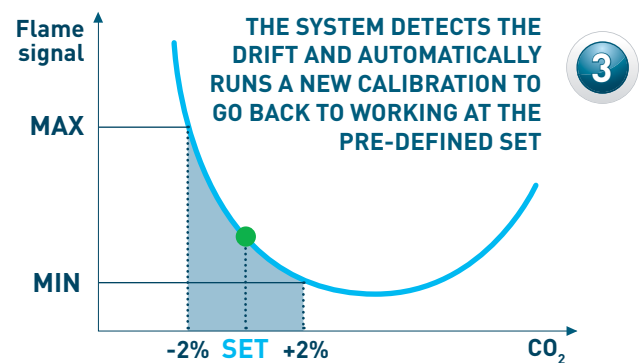
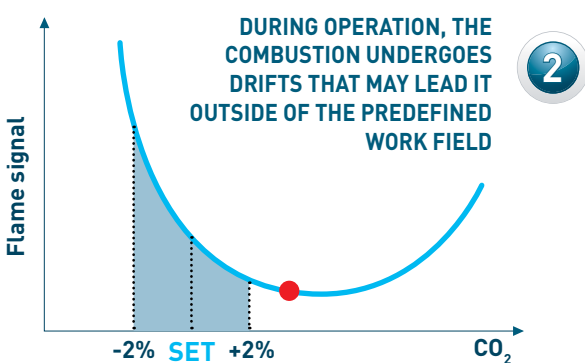
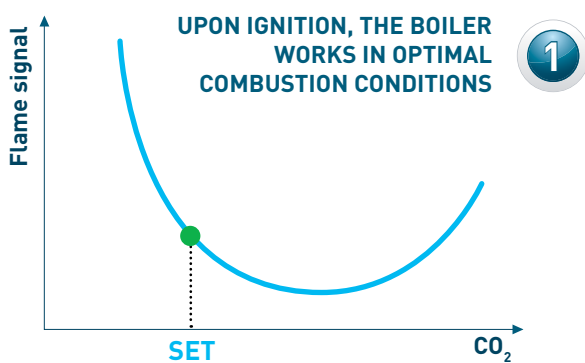


The manufacturers of boilers have always worried about adjusting the more efficient and environmentally friendly combustion. The passing of time often cancels these efforts, lowering the quality of the combustion due to uncontrollable physical drifts. An active control of the combustion allows maintaining the system within the predefined limits of efficiency, safety and emissions.

The system is based on two essential components: the ignition electrode and the control electronics. The electrode, immersed in the flame, works as control sensor of the combustion, providing feedback to the electronics continuously controlling the combustion.

SYSTEM ADVANTAGES

- Simple commissioning, high reliability and reduced maintenance in time
- Maximum safety in case of bad exhaust gas evacuation or unburnt gas recirculation (not detectable by traditional systems)
- Improved control of combustion drifts caused by processing tolerances, oxidation and isolation losses
- No mechanical setting: electronic calibration of the gas valve through simple parameter settings
- Greater ease in LPG/methane gas change through simple parameter in condensation boilers and safe operation in case of using the wrong gas

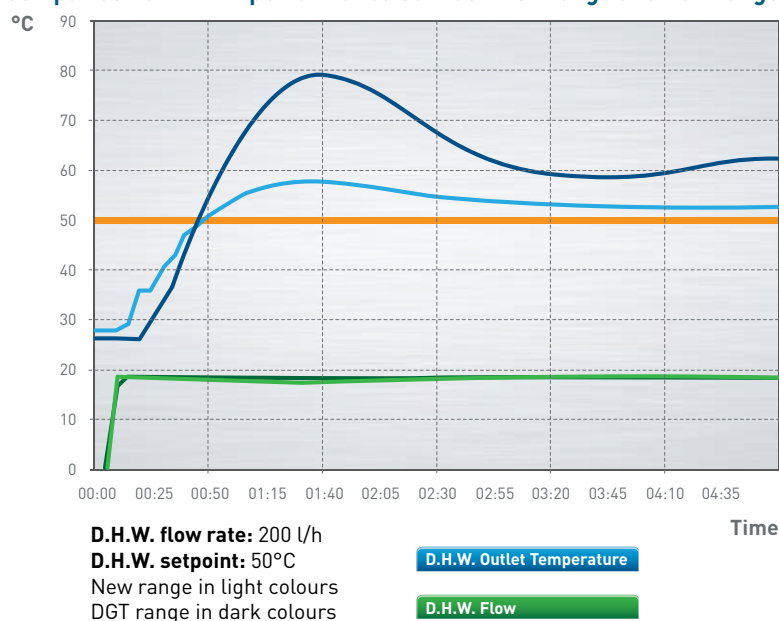


High performance without any waste

With Brava Slim HE ErP and Brava One ErP, Sime introduces a sanitary DHW management with dedicated temperature probe. This ensures precise and stable temperature of hot water with no overshoots.

Brava Slim is also fitted with pre-heating function of the DHW exchanger (it can be deactivated). This makes the boiler ready even when cold, and allows obtaining the three stars, greater scoring of sanitary comfort according to Standard EN 13203.

Comparison of D.H.W. performance between DGT range and new range



Expandability beyond expectations

The Brava Slim HE ErP boilers are designed with a wide plant flexibility: the possibility of managing a modern heating system significantly increases due to the number of dedicated accessories.

SOLAR KIT WITH THERMOSTATIC VALVE

Kit that intercepts hot water coming from a solar circuit and directs it to the boiler, possibly mixed, that will activate to integrate if needed.

MANAGEMENT KIT OF A MIXED AREA

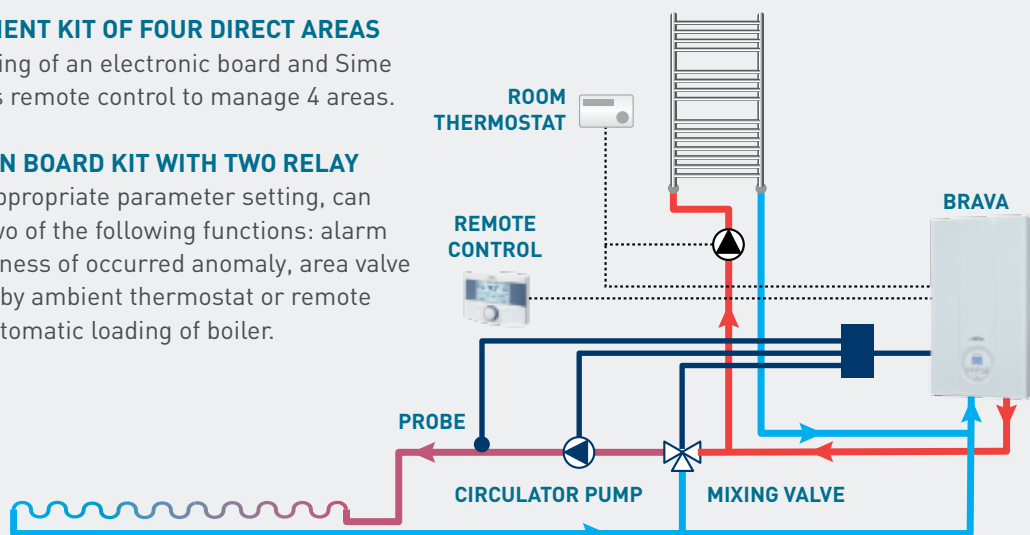
Kit consisting of an electronic board, temperature probe and mixing valve to manage a low temperature area. The kit includes the Sime Home Plus remote control.

MANAGEMENT KIT OF FOUR DIRECT AREAS

Kit consisting of an electronic board and Sime Home Plus remote control to manage 4 areas.

EXPANSION BOARD KIT WITH TWO RELAY

Through appropriate parameter setting, can perform two of the following functions: alarm for remoteness of occurred anomaly, area valve controlled by ambient thermostat or remote control, automatic loading of boiler.






The range in detail

Brava Slim



Brava One



| CONDENSING | | TRADITIONAL COMBUSTION |
|--|---|--|
| BRAVA SLIM HE ErP | BRAVA ONE HE ErP | BRAVA ONE OF ErP |
|  |  |  |

FEATURES

| | | | |
|----------------|--|--|--|
| Casing | 3 pieces | 3 pieces | 3 pieces |
| User interface | 5 keys | 4 keys + 2 knobs | 4 keys + 2 knobs |
| Water gauge | transducer + LCD | pressure switch + hydrometer | pressure switch + hydrometer |
| Display | Blue backlit LCD medium size with 23 symbols | Blue backlit LCD small size with 7 symbols | Blue backlit LCD small size with 7 symbols |
| Wide range | 25-30-35-40 instantaneous 25 T 25/55-30/55 with D.H.W. storage tank | 25-30 instantaneous | 25 OF |

PERFORMANCES

| | | | |
|----------------------|----------------------------------|------------------------|-----------------------|
| Modulation | 1:5 heating (1:8 25T) 1:6 DHW | 1:5 heating 1:6 DHW | 1:3 |
| Climatic adjustment | integrated | integrated | integrated |
| Anti-freeze function | protection up to -5°C | protection up to -5°C | protection up to -5°C |

DOMESTIC HOT WATER

| | | | |
|--------------------------------|-----------|-----------|-----------|
| DHW Performance | 3 stars | standard | standard |
| DHW management with dual probe | ✓ | ✓ | ✓ |
| Increased plate heat exchanger | large | standard | standard |
| Flow switch/flowmeter | flowmeter | flowmeter | flowmeter |

OUTDOOR CONNECTIVITY

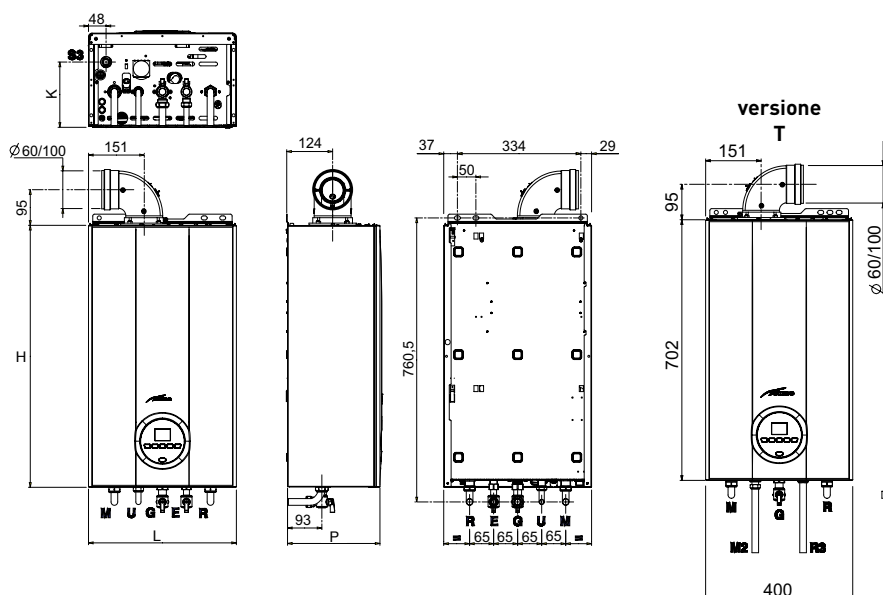
| | | | |
|-----------------------------|-------------|---|---|
| Thermostat input | 2 | 1 | 1 |
| Settable temperature levels | 1 | 1 | 1 |
| Remote alarm | ✓ accessory | ✗ | ✗ |
| Settable temperature levels | ✓ accessory | ✗ | ✗ |

ACCESSORIES

| | | | |
|--------------------------------------|-------------|-------------|-------------|
| Solar with thermostatic mixing valve | ✓ | ✗ | ✗ |
| Mixed zone management kit | ✓ | ✗ | ✗ |
| Fitting cover | ✓ accessory | ✓ accessory | ✓ accessory |
| Anti-freeze kit | -15°C | -15°C | -15°C |
| Automatic system filling | ✓ accessory | ✗ | ✗ |

BRAVA SLIM HE ErP

| | | CONDENSING | | | | | | |
|--|--------|------------|-----------|-----------|-----------|-------|----------|-----------|
| MODELL | | 25 | 30 | 35 | 40 | 25 T | 25/55 | 30/55 |
| Nominal thermal power (80-60°C) | kW | 19,7 | 23,6 | 29,5 | 34,5 | 23,6 | 23,7 | 29,5 |
| Nominal thermal power (50-30°C) | kW | 21,4 | 25,7 | 32,2 | 37,5 | 25,7 | 25,7 | 32,2 |
| Reduced thermal power (80-60°C) | kW | 3,9 | 4,7 | 5,9 | 6,9 | 2,9 | 3,8 | 5,8 |
| Reduced thermal power (50-30°C) | kW | 4,3 | 5,1 | 6,5 | 7,5 | 3,2 | 4,3 | 6,3 |
| Heating nominal heat flow | kW | 20 | 24 | 30 | 35 | 24 | 24 | 30 |
| Heating reduced heat flow | kW | 4,0 | 4,8 | 6,0 | 7,0 | 3,0 | 4,0 | 6,0 |
| Max useful yield (80-60°C) | % | 98,5 | 98,3 | 98,3 | 98,6 | 98,3 | 98,7 | 98,3 |
| Min useful yield (80-60°C) | % | 97,5 | 97,9 | 98,3 | 98,6 | 96,6 | 95 | 96,7 |
| Max useful yield (50-30°C) | % | 107,0 | 107,1 | 107,3 | 107,1 | 107,1 | 107,0 | 107,3 |
| Min useful yield (50-30°C) | % | 107,5 | 106,25 | 108,3 | 107,1 | 106,6 | 106,2 | 105,0 |
| Useful perform. at 30% of the load (40-30°C) | % | 108,5 | 108,5 | 108,5 | 108,5 | 107,5 | 107,4 | 107,2 |
| Heating energy efficiency class | | A | A | A | A | A | A | A |
| Domestic hot water energy efficiency class | | A | A | A | B | - | B | B |
| Domestic hot water load profile | | XL | XL | XL | XXL | - | XL | XL |
| Heating sound power | dB (A) | 54 | 56 | 53 | 54 | 56 | 52 | 54 |
| Absorbed power (Q _n max) | W | 70 | 85 | 92 | 111 | 73 | 70 | 92 |
| Absorbed power (Q _n min) | W | 52 | 52 | 57 | 58 | 52 | 52 | 57 |
| Electric protection degree | IP | X5D | X5D | X5D | X5D | X5D | X5D | X5D |
| Heating adjustment field | °C | 20÷80 | 20÷80 | 20÷80 | 20÷80 | 20÷80 | 20÷80 | 20÷80 |
| Boiler water content | l | 4,65 | 4,75 | 4,95 | 5,60 | 4,50 | 4,65 | 4,95 |
| Max operating pressure | bar | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Max operating temperature | °C | 85 | 85 | 85 | 85 | 85 | 85 | 85 |
| Heating expansion vessel capacity | l | 9 | 9 | 9 | 10 | 9 | 10 | 10 |
| Heating expansion vessel pressure | bar | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Domestic hot water adjustment field | °C | 10÷60 | 10÷60 | 10÷60 | 10÷60 | - | 10÷60 | 10÷60 |
| Sanitary nominal heat flow | kW | 24 | 28 | 34,8 | 40 | - | 24 | 30 |
| Specific sanitary flow rate ΔT 30°C (EN 13203) | l/min | 11,2 | 12,9 | 16,5 | 19,4 | - | 15,5 | 17,5 |
| Continuous sanitary flow rate (ΔT 25/35°C) | l/min | 13,6/9,7 | 16,1/11,5 | 20,0/14,3 | 22,9/16,4 | - | 13,6/9,7 | 16,9/12,0 |
| Sanitary minimum flow rate | l/min | 2 | 2 | 2 | 2 | - | 2 | 2 |
| Max/min sanitary pressure | bar | 7,0/0,5 | 7,0/0,5 | 7,0/0,5 | 7,0/0,7 | - | 7,0/0,5 | 7,0/0,5 |
| Max ø 60/100 horizontal length | m | 6 | 5 | 4 | 4 | 6 | 6 | 4 |
| Max ø 80/125 horizontal length | m | 12 | 10 | 10 | 10 | 12 | 12 | 10 |
| Max 80+80 horizontal twin pipe length | m | 25+25 | 25+25 | 25+25 | 25+25 | 25+25 | 25+25 | 25+25 |
| Max 60+60 horizontal twin pipe length | m | 6+6 | 6+6 | 4+4 | 4+4 | 6+6 | 6+6 | 4+4 |
| NOx class | | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Weight | kg | 28,5 | 28,5 | 30 | 32,5 | 27,5 | 56 | 57 |

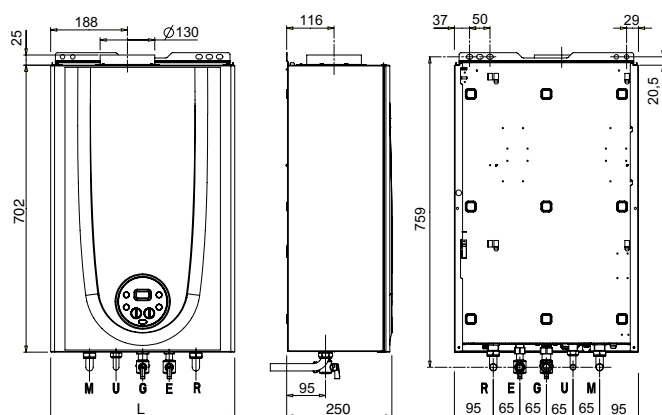


| Dim. | 25-30-35 | 40 | 25-30/55 |
|------|----------|-----|----------|
| H | 702 | 702 | 950 |
| L | 400 | 400 | 600 |
| P | 250 | 300 | 460 |
| K | 175 | 214 | 248 |

| Hydraulic connections | | |
|-----------------------|------------------|------|
| M | System flow | 3/4" |
| R | System return | 3/4" |
| G | Gas supply | 3/4" |
| E | D.H.W. inlet | 1/2" |
| U | D.H.W. outlet | 1/2" |
| R3 | Boiler return | 3/4" |
| M2 | Boiler flow | 3/4" |
| S3 | Condensate drain | ø 25 |

BRAVA ONE ErP

| | | CONDENSING | | TRAD. COMBUSTION |
|--|--------|------------|-----------|------------------|
| MODEL | | 25 HE | 30 HE | 25 OF |
| Nominal thermal power (80-60°C) | kW | 19,7 | 23,6 | 23 |
| Nominal thermal power (50-30°C) | kW | 21,4 | 25,7 | 8,7 |
| Reduced thermal power (80-60°C) | kW | 3,9 | 4,7 | - |
| Reduced thermal power (50-30°C) | kW | 4,3 | 5,1 | - |
| Heating nominal heat flow | kW | 20 | 24 | 25 |
| Heating reduced heat flow | kW | 4,0 | 4,8 | 10 |
| Max useful yield (80-60°C) | % | 98,5 | 98,3 | - |
| Min useful yield (80-60°C) | % | 97,5 | 97,9 | - |
| Max useful yield (50-30°C) | % | 107,0 | 107,1 | - |
| Min useful yield (50-30°C) | % | 107,5 | 106,3 | - |
| Useful perform. at 100% of the load | % | - | - | 92,2 |
| Useful perform. at 30% of the load (40-30°C) | % | 108,5 | 108,5 | 91,5 |
| Heating energy efficiency class | | A | A | C |
| Domestic hot water energy efficiency class | | A | A | B |
| Domestic hot water load profile | | XL | XL | XL |
| Heating sound power | dB (A) | 54 | 56 | 48 |
| Absorbed power (Q _n max) | W | 70 | 85 | 79 |
| Absorbed power (Q _n min) | W | 52 | 52 | 50 |
| Electric protection degree | IP | X5D | X5D | X4D |
| Heating adjustment field | °C | 20÷80 | 20÷80 | 20÷80 |
| Boiler water content | l | 4,65 | 4,75 | 3,15 |
| Maximum operating pressure | bar | 3 | 3 | 3 |
| Maximum operating temperature | °C | 85 | 85 | 85 |
| Heating expansion vessel capacity | l | 9 | 9 | 8 |
| Heating expansion vessel pressure | bar | 1 | 1 | 1,0 |
| Sanitary adjustment field | °C | 10÷60 | 10÷60 | 10÷60 |
| Sanitary nominal heat flow | kW | 24 | 28 | 25 |
| Specific sanitary flow rate ΔT 30°C (EN 13203) | l/min | 11,2 | 12,9 | 10,9 |
| Continuous sanitary flow rate (ΔT 25/35°C) | l/min | 13,9/9,7 | 16,1/11,5 | 13,3/9,5 |
| Sanitary minimum flow rate | l/min | 2,0 | 2,0 | 2,2 |
| Max/min sanitary pressure | bar | 7,0/0,5 | 7,0/0,5 | 7,0/0,4 |
| Max ø 60/100 horizontal length | m | 6 | 5 | - |
| Max ø 80/125 horizontal length | m | 12 | 10 | - |
| Max 80+80 horizontal twin pipe length | m | 25+25 | 25+25 | - |
| Max 60+60 horizontal twin pipe length | m | 6+6 | 6+6 | - |
| NOx class | | 6 | 6 | 3 |
| Weight | kg | 28,5 | 28,5 | 26 |



| Dim. | 25-30 HE | 25 OF |
|------|----------|-------|
| L | 400 | 450 |

| Hydraulic connections | | |
|-----------------------|---------------|------|
| M | System flow | 3/4" |
| R | System return | 3/4" |
| G | Gas supply | 3/4" |
| E | D.H.W. inlet | 1/2" |
| U | D.H.W. outlet | 1/2" |

Within the scope of the "20-20-20 Plan", the European Union has passed a number of known directives including:

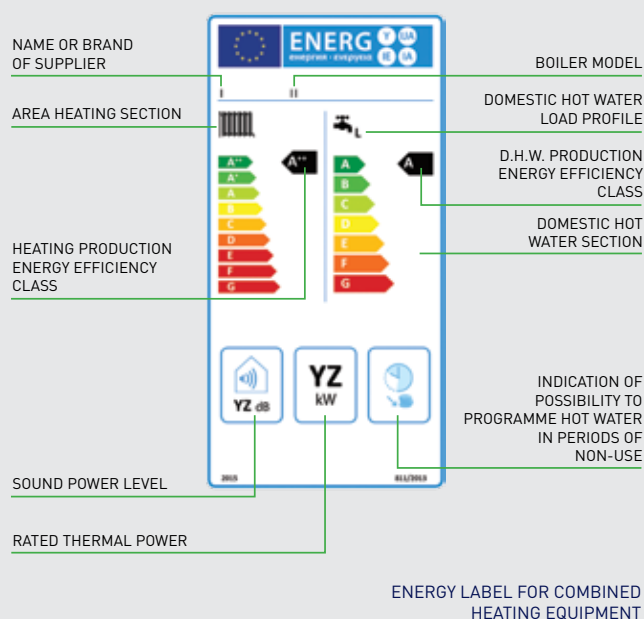
- › **Energy Related Products (ErP) Directive**, which regulates eco-compatible design
- › **Energy Labelling Directive (ELD)**, which regulates the labelling of devices based on their energy efficiency.

ECO-COMPATIBLE DESIGN (ErP)

Regulations covering ECO-COMPATIBLE DESIGN define the requirements that products must satisfy in order to be commercialised in the European market **from 26th September 2015**, specifically in regards to minimum heating and domestic hot water efficiency, maximum allowed polluting agents and noise levels. Moreover, **from 1st August 2015**, domestic hot water boilers can only be operated with high-efficiency circulator pumps.

ENERGY LABELLING (ELD)

From 26th September 2015, equipment with an output up to 70 kW and domestic hot water boilers with a volume up to 500 litres must carry **ENERGY LABELS** classifying products according to their level of efficiency, in a scale from **A+++** to **G**.



Fonderie Sime. S.p.A has obtained voluntary certifications ISO 14001 and OHSAS 18001, constituting international recognition of the commitment and responsibility assumed by Sime on matters of the environment and worker safety. Through the successful achievement of this objective, Sime has materialised its corporate mission, while undertaking to continuously improve its current activities and future processes.

