

SIME Brava One HE 30 ERP

SIME Brava One HE 30 ERP Wall-Mounted Condensing Boiler User Manual

Brand: **SIME** | Model: **Brava One HE 30 ERP**

1. PRODUCT OVERVIEW

The SIME Brava One HE 30 ERP is a wall-mounted pre-mixed condensing boiler designed for efficient heating and domestic hot water production. It features a wide modulation range and a durable stainless steel spiral heat exchanger. Its extremely compact dimensions and three-piece casing allow for flexible installation. The boiler incorporates advanced Domestic Hot Water (DHW) management with a dedicated probe and retroactive combustion control via an electronic gas valve. It can be installed outdoors or recessed using appropriate accessories. This model is available in versions producing 24.0 kW and 28.0 kW for domestic hot water, and includes integrated climatic regulation.

Key Features:

- Wall-mounted pre-mixed condensing boiler
- Very compact dimensions
- Retroactive combustion control with electronic gas valve
- Stainless steel spiral heat exchanger
- Integrated climatic regulation



Figure 1.1: Front view of the SIME Brava One HE 30 ERP boiler, showcasing its compact design and control panel.

2. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your SIME Brava One HE 30 ERP boiler. Installation must be performed by a qualified professional in accordance with local regulations and the instructions provided in this manual.

2.1 Dimensions and Hydraulic Connections

Refer to the diagram below for detailed dimensions and hydraulic connection points. Ensure adequate space for installation and future maintenance.



Brava ONE HE ErP

Caldaie murali premiscelate a condensazione a basse emissioni per il riscaldamento e la produzione acqua calda istantanea a combustione stagna (tipo C)

MISURE D'INGOMBRO - COLLEGAMENTI IDRAULICI

Caldaia premiscelata a condensazione con ampio campo di modulazione per il riscaldamento e la produzione sanitaria dalle dimensioni estremamente compatte.

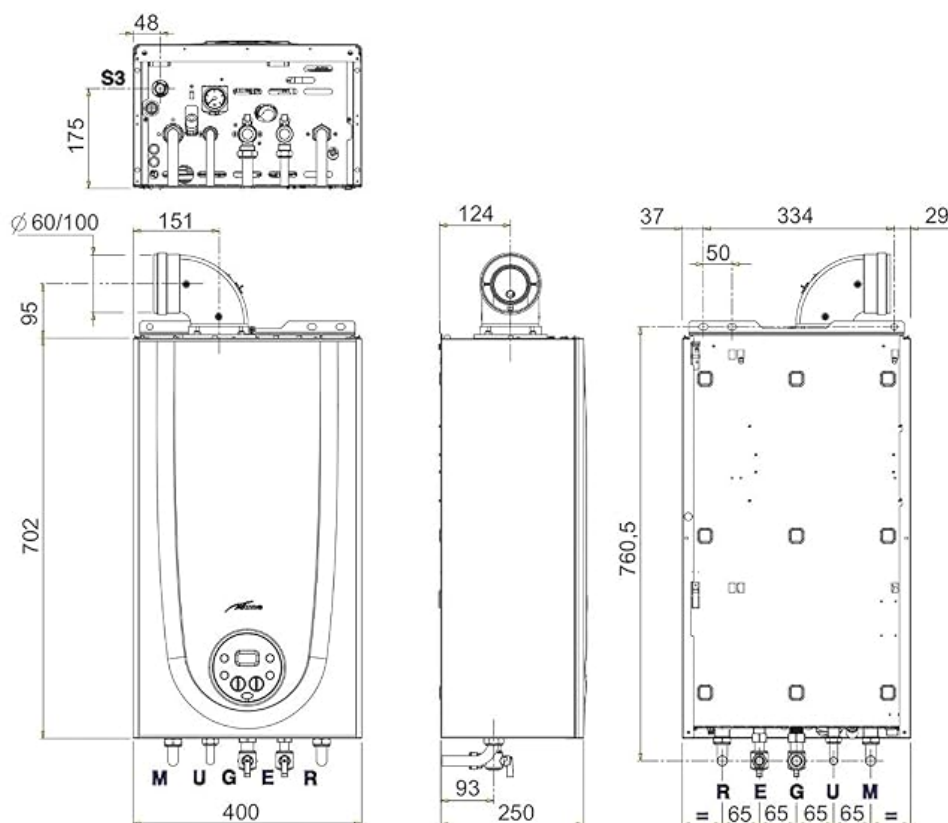
Il controllo retroattivo della combustione con valvola gas elettronica garantisce un rendimento complessivo più elevato e minori spese di esercizio.

Brava ONE HE ErP è conforme ai requisiti essenziali della Direttiva Gas 2009/142/CE, Direttiva Compatibilità Elettromagnetica 2014/30/UE, Direttiva Bassa Tensione 2014/35/UE, Direttiva Progettazione Ecocompatibile 2009/125/CE e Regolamento (UE) N. 813/2013 - 811/2013.

L'apparecchio è conforme anche al D.M. 174 del 06-04-2004 in attuazione della Direttiva Europea 98/83 CE relativa alla qualità delle acque.

Range Rated

Omologata a diversi livelli di potenza massima in riscaldamento per consentire la regolazione della caldaia all'effettivo fabbisogno termico. Questo permette di far rientrare la potenza massima

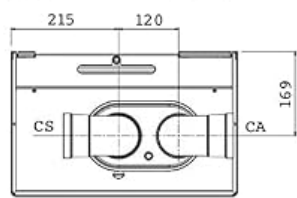


della caldaia nei limiti previsti da specifiche normative.

Predisposta per il funzionamento ad ARIA PROPANATA (G230).

Interfaccia con il comando remoto opzionale SIME HOME.

Gamma completa di accessori scarico fumi e aspirazione aria omologati. (Consultare la sezione 6.08)



	25 - 30 ErP
R	Ritorno impianto 3/4"
M	Mandata impianto 3/4"
G	Alimentazione gas 3/4"
E	Entrata acqua sanitaria 1/2"
U	Uscita acqua sanitaria 1/2"
S3	Scarico condensa ø 25
CA	Condotto aspirazione ø 80 e ø 60
CS	Condotto di scarico ø 80 e ø 60 - Coassiale ø 60/100-80/125

Figure 2.1: Diagram illustrating the overall dimensions of the boiler and the layout of its hydraulic connections. Key connections include heating flow (M), heating return (R), domestic hot water outlet (U), domestic hot water inlet (G), and gas supply (E).

2.2 Electrical Connections

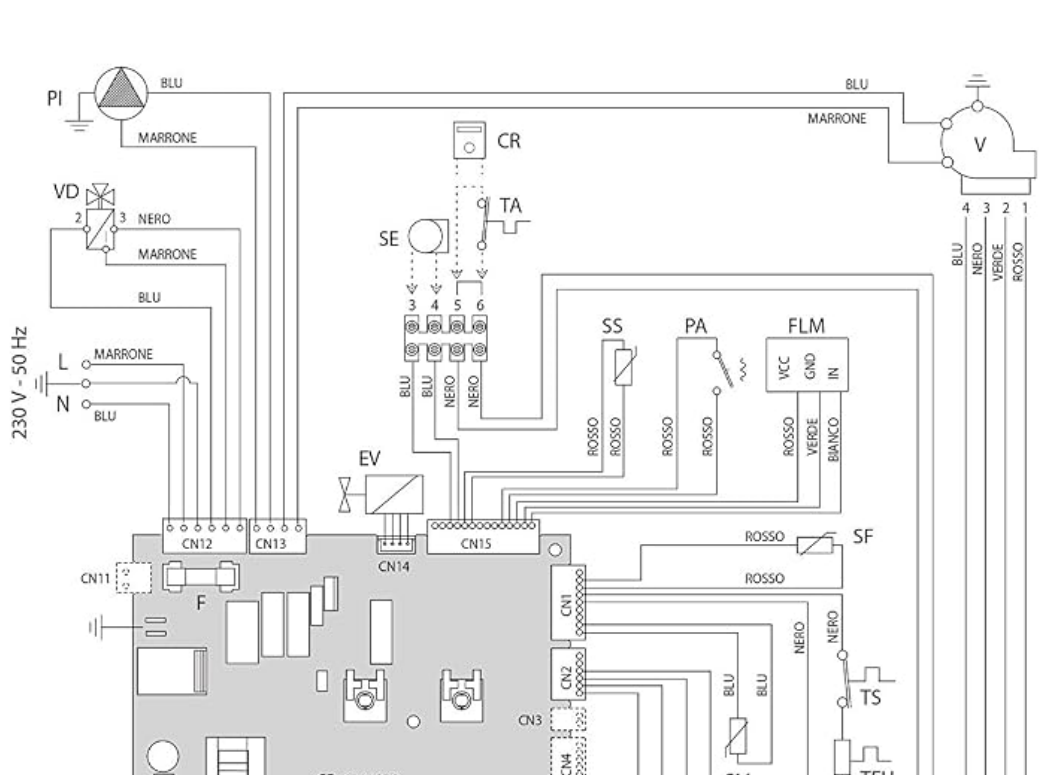
The electrical connections must be made by a qualified electrician. The boiler requires a 230V/50Hz power supply. Consult the electrical schematic for proper wiring.

Brava ONE HE ErP

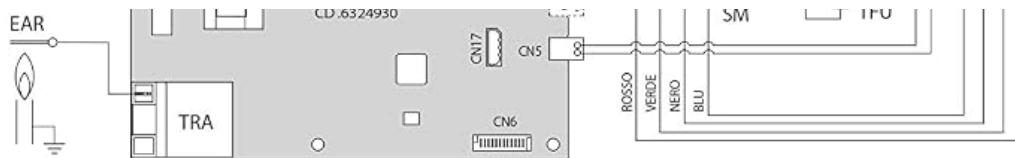
Caldaie murali premiscelate a condensazione a basse emissioni per il riscaldamento e la produzione acqua calda istantanea a combustione stagna (tipo C)



SCHEMA ELETTRICO



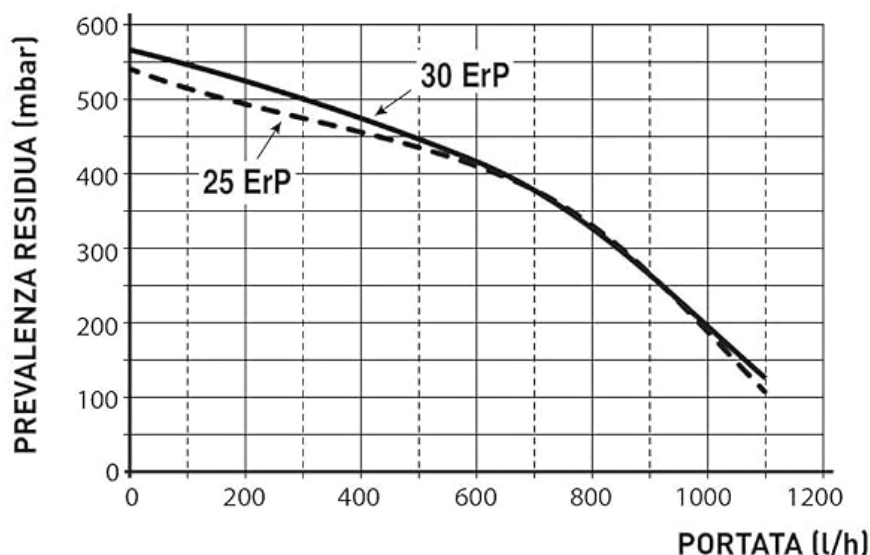
LEGENDA	
F	Fusibile (3.15 AT)
TRA	Trasformatore d'accensione
PI	Pompa impianto alta efficienza
V	Ventilatore
EAR	Elettrodo accens./rilevazione
EV	Elettrovalvola gas
SS	Sonda sanitario
SM	Sonda riscaldamento
FLM	Flussimetro sanitario
TS	Termostato sicurezza
VD	Valvola deviatrice
PA	Pressostato acqua
TA	Termostato ambiente
CR	Comando remoto optional SIME HOME



SE (alternativo al IAI)
Sonda temperatura esterna (optional)
TFU Termofusibile
SF Sonda fumi

NOTA: Collegare il TA o in alternativa il CR ai morsetti 5-6 dopo aver tolto il ponte.

PREVALENZA DISPONIBILE ALL'IMPIANTO



La prevalenza residua per l'impianto di riscaldamento è rappresentata, in funzione della portata, dal grafico riportato in figura.

4. 04.4

Figure 2.2: Top portion of the image shows the electrical schematic for the boiler, detailing connections for power supply, sensors, and control components. The bottom portion displays a graph of residual pressure versus flow rate for both 25 ErP and 30 ErP models, indicating system compatibility.

3. OPERATION

The SIME Brava One HE 30 ERP boiler is designed for user-friendly operation. The control panel allows for easy adjustment of heating and domestic hot water settings. Refer to the functional schematic for an understanding of the internal components and their interaction.

3.1 Functional Overview



Brava ONE HE ErP

Caldaie murali premiscelate a condensazione a basse emissioni per il riscaldamento e la produzione acqua calda istantanea a combustione stagna (tipo C)

LEGENDA

- Ventilatore (V)
- Sonda aspirazione (SA)

SCHEMA FUNZIONALE

- 2 Sonda sanitario (SS)
- 3 Scambiatore primario
- 4 Termostato sicurezza (TS)
- 5 Sonda riscaldamento (SM)
- 6 Scambiatore sanitario
- 7 Valvola deviatrice (VD)
- 8 By-pass automatico
- 9 Gocciolatoio sifonato
- 10 Valvola gas (EV)
- 11 Flussimetro sanitario (FLM)
- 12 Filtro acqua sanitario
- 13 Caricamento impianto
- 14 Scarico caldaia
- 15 Valvola sicurezza impianto 3 BAR
- 16 Pompa impianto alta efficienza (PI)
- 17 Manometro
- 18 Pressostato acqua (PA)
- 19 Vaso espansione impianto
- 20 Rubinetto mandata impianto (opzionale)
- 21 Rubinetto gas (opzionale)
- 22 Rubinetto entrata sanitario (opzionale)
- 23 Rubinetto ritorno impianto (opzionale)

ATTACCHI

- R Ritorno impianto
- M Mandata impianto
- G Alimentazione gas
- E Entrata acqua sanitaria
- U Uscita acqua sanitaria
- S3 Scarico condensa

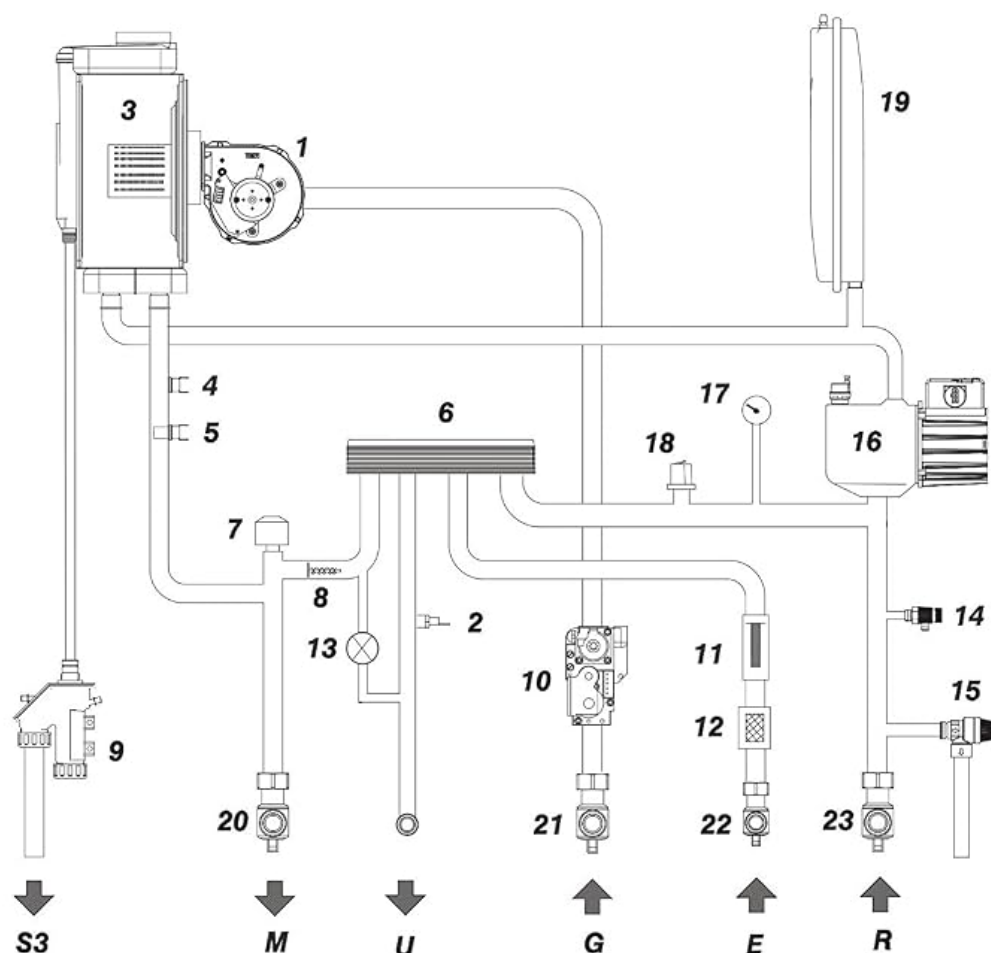


Figure 3.1: Functional schematic diagram of the boiler, illustrating the flow of water and gas through various components such as the heat exchanger, pump, expansion vessel, and safety devices. Numbered labels correspond to a legend for component identification.

For detailed instructions on setting temperature, operating modes, and using the integrated climatic regulation, please consult the specific sections in the full manual (not provided here).

4. MAINTENANCE

Regular maintenance is essential to ensure the longevity, efficiency, and safe operation of your SIME Brava One HE 30 ERP boiler. It is recommended to have the boiler inspected and serviced annually by a qualified technician.

- **Annual Service:** Schedule a professional service to check combustion, clean the heat exchanger, inspect safety devices, and verify system pressure.
- **Pressure Check:** Periodically check the system pressure gauge. If the pressure is too low, repressurize the system according to the installation instructions.
- **Cleaning:** Keep the exterior of the boiler clean. Do not use abrasive cleaners.
- **Ventilation:** Ensure that the boiler's ventilation openings are clear and unobstructed.

5. TROUBLESHOOTING

This section provides guidance for common issues you might encounter. For complex problems or if you are unsure, always contact a qualified service technician.

Problem	Possible Cause	Solution
No heating or hot water	Low system pressure, no gas supply, power outage, thermostat setting too low.	Check pressure gauge and repressurize if needed. Verify gas valve is open. Check power supply. Adjust thermostat.
Boiler making unusual noises	Air in the system, pump issue, limescale buildup.	Bleed radiators. Contact technician for pump or limescale issues.
Error code displayed	Specific internal fault.	Note the error code and consult the full manual or contact a qualified technician.

6. TECHNICAL SPECIFICATIONS

The following tables provide detailed technical specifications for the SIME Brava One HE 30 ERP boiler.

6.1 General Specifications

Specification	Value
Manufacturer	SIME
Product Weight	40 kg
Batteries Included	No
Batteries Required	No

Specification	Value
ASIN	B01LLZ9QCA
First Available Date	October 8, 2016

6.2 Performance Data

Brava ONE HE ErP



Caldaie murali premiscelate a condensazione a basse emissioni per il riscaldamento e la produzione acqua calda istantanea a combustione stagna (tipo C)

DATI TECNICI BRAVA ONE HE		25 ErP	30 ErP
Potenza termica nominale (80-60°C)	kW	19,7	23,6
Potenza termica nominale (50-30°C)	kW	21,4	25,7
Potenza termica ridotta G20/G230 (80-60°C)	kW	3,9	4,7
Potenza termica ridotta G20/G230 (50-30°C)	kW	4,3	5,1
Potenza termica ridotta G31 (80-60°C)	kW	3,9	4,7
Potenza termica ridotta G31 (50-30°C)	kW	4,3	5,1
Portata termica nominale in riscaldamento	kW	20	24
Portata termica nominale in sanitario	kW	24	28
Portata termica ridotta	kW	4,0	4,8
Rendimento utile min/max (80-60°C)	%	97,5/98,5	97,9/98,3
Rendimento utile min/max (50-30°C)	%	107,5/107,0	106,3/107,1
Rendimento utile 30% del carico (40-30°C)	%	107	107
Rend. min. di combustione in opera (DPR 311)	%	92,59	92,74
DATI ELETTRICI			
Tensione/frequenza di alimentazione	V/Hz	230/50	230/50
Potenza elettrica assorbita max	W	70	85
Potenza elettrica assorbita min	W	52	52
Potenza elettrica assorbita dalla pompa impianto	W	41	41
Perdite all'arresto a 50°C (EN 15502)	W	84	88
Grado di protezione elettrica	IP	X5D	X5D
PRESTAZIONI ENERGETICHE			
Classe efficienza energetica stagionale riscald.		A	A
Efficienza energetica stagionale riscald.	%	91	91
Potenza sonora riscaldamento	dB (A)	54	56
Classe efficienza energetica sanitaria		A	A
Efficienza energetica sanitaria	%	80	80
Profilo sanitario di carico dichiarato		XL	XL
PRESTAZIONI RISCALDAMENTO			
Campo regolazione riscaldamento	°C	20/80	20/80
Contenuto acqua caldaia	l	4,65	4,75
Pressione max esercizio	bar	3	3
Temperatura max esercizio	°C	85	85
Capacità vaso di espansione	l	9	9
PRESTAZIONI SANITARIO			

Portata termica nominale	kW	24	28
Portata termica ridotta	kW	4	4,8
Campo regolazione sanitario	°C	10/60	10/60
Portata sanitaria specifica (EN 13203)	l/min	11,2	12,9
Portata sanitaria continua (Δt 25/35°C)	l/min	13,6/9,7	16,1/11,5
Portata sanitaria min	l/min	2	2
Pressione sanitaria min/max	bar	0,5/7,0	0,5/7,0

4. 04.2			
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Figure 6.1: Table detailing the technical performance data for Brava One HE 25 ErP and 30 ErP models. It includes nominal thermal power, reduced thermal power, nominal flow rate for heating and sanitary water, efficiency at various temperatures, and electrical absorption.

Brava ONE HE ErP

Caldaie murali premiscelate a condensazione a basse emissioni per il riscaldamento e la produzione acqua calda istantanea a combustione stagna (tipo C)

DATI TECNICI BRAVA ONE HE

25 ErP

30 ErP

Numero Pin	1312CP5936
Apparecchio di tipo	B23P-B33P-B53P-C13-C33-C43-C53-C63-C83-C93
Categoria gas	II2HM3P
Classe di emissioni NOx	5 (< 70 mg/kWh)

DATI COMBUSTIONE

Temperatura fumi a portata max (80-60°C)	°C	82	89
Temperatura fumi a portata min (80-60°C)	°C	66	71
Temperatura fumi a portata max (50-30°C)	°C	59	71
Temperatura fumi a portata min (50-30°C)	°C	45	51
Portata fumi min	g/s	1,90	2,20
Portata fumi max	g/s	11,2	13,1
CO ₂ a portata min/max (G20/G230)	%	9,0/9,0	9,0/9,0
CO ₂ a portata min/max (G31)	%	10,0/10,0	10,0/10,0
NOx misurato	mg/kWh	39	41
Perdite al camino a bruciatore acceso	%	3,1	3,3
Perdite al mantello a bruciatore acceso	%	0,2	0,2

UGELLI - GAS

Quantità ugelli	n°	1	1
Diametro ugelli	ø	5,3	5,3
Consumo a potenza massima (G20/G230)	m³/h	2,53	2,96
Consumo a potenza minima (G20/G230)	m³/h	0,42	0,50
Consumo a potenza massima (G31)	kg/h	1,86	2,17
Consumo a potenza minima (G31)	kg/h	0,31	0,37
Pressione alimentazione gas (G20/G230/G31)	mbar	20/20/37	20/20/37

PESO A VUOTO

kg	28,5	28,5
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CONDOTTI DI SCARICO

Lunghezza massima rettilinea ø 60/100 *	m	6	6
Lunghezza massima rettilinea ø 60/105 *	m	10	10

Lunghezza massima rettilinea Ø 80/125 *	m	12	10
Lunghezza massima rettilinea Ø 80 *	m	25+25	25+25
Lunghezza massima rettilinea Ø 60 *	m	6+6	6+6

* In orizzontale con una curva a 90°

4. 04.3

Figure 6.2: Table presenting further technical data, including gas category, NOx emissions, flue gas temperatures, CO2 percentage, NOx measured, and details on gas nozzles and gas consumption for both 25 ErP and 30 ErP models. It also lists the dry weight of the boiler.

The image *9158ApjOULL_AC_SL1500_.jpg* also contains a summary of features and performance data, which aligns with the information presented in the tables and overview.

7. WARRANTY AND SUPPORT

SIME products are manufactured to high quality standards. For information regarding the warranty period and terms, please refer to the warranty card included with your product or contact SIME customer support directly. Keep your proof of purchase for warranty claims.

For technical assistance, spare parts, or professional service, please contact an authorized SIME service center or your installer. Always provide the model number (Brava One HE 30 ERP) and serial number of your boiler when seeking support.

You can find more information and contact details on the official SIME website: www.sime.it

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question