

FLOOR STANDING BOILERS



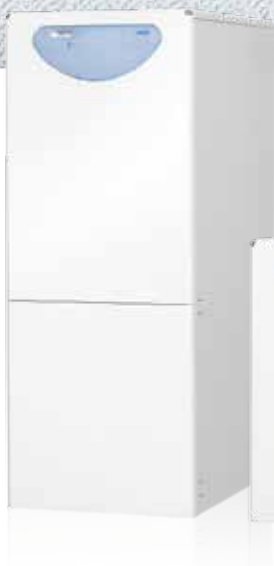
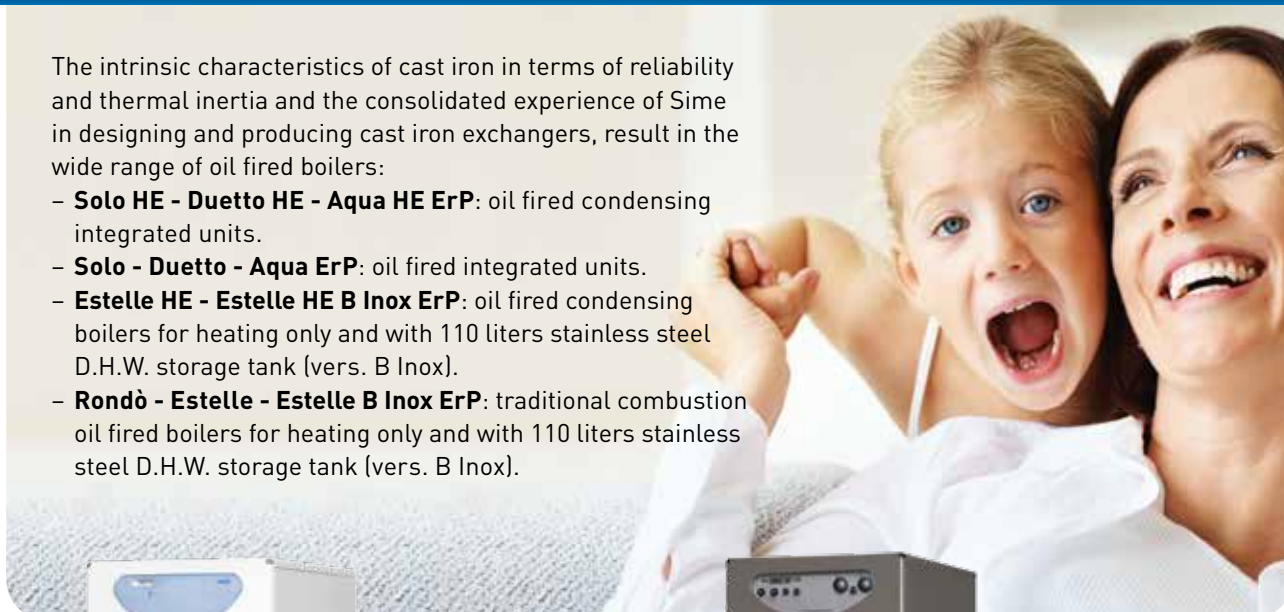
Solo HE - Duetto HE - Aqua HE ErP
Solo - Duetto - Aqua ErP
Estelle HE - Estelle HE B Inox ErP
Rondò - Estelle - Estelle B Inox ErP



Sime: quality heat

The intrinsic characteristics of cast iron in terms of reliability and thermal inertia and the consolidated experience of Sime in designing and producing cast iron exchangers, result in the wide range of oil fired boilers:

- **Solo HE - Duetto HE - Aqua HE ErP**: oil fired condensing integrated units.
- **Solo - Duetto - Aqua ErP**: oil fired integrated units.
- **Estelle HE - Estelle HE B Inox ErP**: oil fired condensing boilers for heating only and with 110 liters stainless steel D.H.W. storage tank (vers. B Inox).
- **Rondò - Estelle - Estelle B Inox ErP**: traditional combustion oil fired boilers for heating only and with 110 liters stainless steel D.H.W. storage tank (vers. B Inox).



Aqua ErP



Solo HE - Duetto HE ErP



Estelle HE B Inox ErP



Rondò - Estelle ErP

The range

Model	Heating only	Heating and D.H.W. production	With D.H.W. storage tank
OIL FIRED INTEGRATED UNITS	Solo HE ErP* - Solo ErP	✓	
	Duetto HE ErP* - Duetto ErP	✓	
	Aqua HE ErP* - Aqua ErP		✓
	Aqua HE Inox ErP* - Aqua Inox ErP		✓
OIL FIRED BOILERS	Estelle HE ErP* - Rondò-Estelle ErP	✓	
	Estelle HE B Inox ErP* - Estelle B Inox ErP		✓

* condensing version

Product advantages

INTEGRATED UNITS

- › Different solutions for the management of domestic water
- › Preset burner for easy installation and casing acoustically insulated
- › Stainless steel post-condenser in condensing HE models

CAST IRON BOILERS

- › Combustion chamber according to DIN for pairing with the most popular burners on the market
- › Cast iron body with three-pass
- › Combustion chamber door with reversible hinge
- › Stainless steel post-condenser in condensing HE models

Cast iron boiler block

Keeping with its tradition of high efficient and high quality cast iron, an alloy that keeps its outstanding performances without deterioration, Sime's cast iron actually means quality and reliability.

Our cast iron leads to massive energy savings, thanks to its unparalleled thermal inertia.

Our design of the sections permits excellent

combustion, which reduces emission of harmful gases into the environment.

This is the result of Sime's years of consolidated experience in designing cast iron heat exchangers.

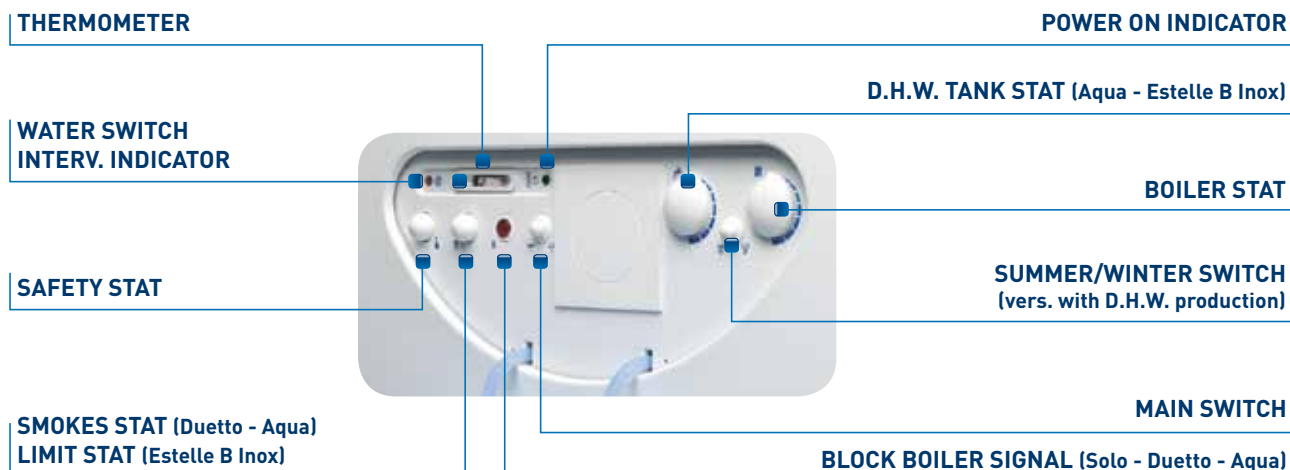
Cast iron boiler block



Control panel simplicity

Sime integrated units and oil fired boilers are easy to use and have a design that allows them to be integrated into homes. The control panels are designed

to enter the timer and protected by a flap against accidental tampering. The generators are easy to install and require minimum maintenance.



Integrated units

Flexible integration

A thermal unit is an integrated and flexible unit that optimizes the use of space and meets different needs in terms of heating and domestic hot water production.

- **Solo** is the proposal for heating only, combinable with external tank.
- **Duetto** manages the heating and instantaneous production of domestic hot water.
- **Aqua** is the thermal unit combined with a storage tank with an integrated tank steel 120 litre, or stainless steel 110 litre, boiler.

The range is enriched with the **HE condensing models** provided with a stainless steel post-condenser, situated behind the boiler.



Solo HE - Duetto HE - Aqua HE

Estelle HE - Estelle HE B Inox

Reliability and high performances

The integrated units and the boilers are high efficiency, three pass, oil-fired units.

The HE condensing models feature a combustion system that ensures high efficiency thanks to the recovery of the heat content of the combustion products. The condensation is obtained by means of a stainless steel post-condenser, situated behind the boiler, which recovers most of the dispersions thus achieving a better use of the total energy made available by the fuel.



Stainless steel post-condensate box



Duetto - Aqua - Estelle HE B Inox - Estelle B Inox

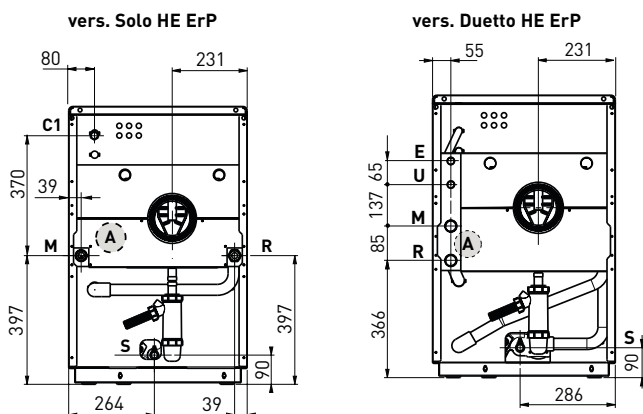
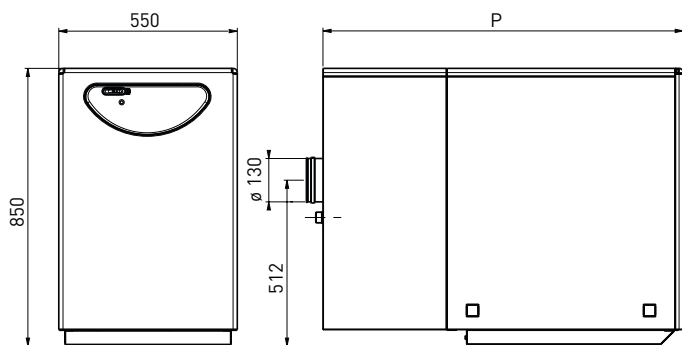
Plantiful hot water

Duetto, Aqua, and Estelle B Inox are the oil fired solutions for the production of domestic hot water. Duetto features a heat exchanger with a copper coil that ensures the instantaneous production of hot water. Aqua and Estelle B Inox meet the requirements of even the most demanding users. The capacity of 110 or 120 litres of the tank guarantee excellent yields allowing for water to be withdrawn from multiple points simultaneously.

The high insulation efficiency of the self-extinguishing polyurethane foam cladding, ensures considerable savings in operating costs. The boiler features a protective magnesium anode and inspection flange for control and cleaning. Le circuit sanitaire, indépendant du circuit de chauffage, assure une production rapide qui limite les coûts d'entretien.

Solo HE - Duetto HE ErP

		SOLO HE ErP		DUETTO HE ErP	
MODEL		25	35	25	35
Heat output (80÷60)	kW	25,5	33,0	25,5	33,0
Heat output (50÷30)	kW	26,7	35,5	26,7	35,5
Heat input	kW	26,2	34,8	26,2	34,8
Useful perform. at 100% of the load	%	97,3	94,8	97,3	94,8
Useful perform. at 30% of the load (40-30°C)	%	110,4	106,6	110,4	106,6
Central heating energy efficiency class		A	A	A	A
Domestic hot water energy efficiency class		-	-	B	B
D.H.W. load profile declared		-	-	XL	XL
Sound power of the heating system	dB [A]	60	61,8	60	61,8
Cast iron elements	n°	3	4	3	4
Power consumption	W	175	193	175	193
Maximum water head	bar	4	4	4	4
Water content	l	18	22	18	22
Expansion vessel water content	l	10	10	10	10
Expansion vessel preloading pressure	bar	1	1	1	1
Loss of head smoke	mbar	0,16	0,21	0,16	0,21
Heating adjustment range	°C	45÷85	45÷85	45÷85	45÷85
D.H.W. adjustment range	°C	-	-	30÷60	30÷60
D.H.W. flow rate (EN 13203)	l/min	-	-	12	14
Contin. D.H.W. flow rate (Δt 30°C)	l/min	-	-	12	14,8
Minimum D.H.W. flow rate	l/min	-	-	2,5	2,5
D.H.W. tank maximum water head	bar	-	-	6	6
Depth [P]	mm	1032	1132	1032	1132
Weight	kg	142	167	182	206

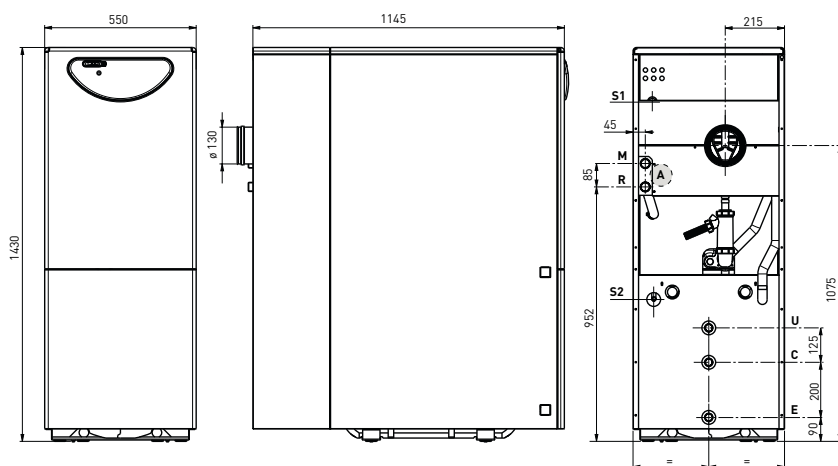


Hydraulic connections	Solo HE ErP	Duetto HE ErP
M C.H. flow	1"	1"
R C.H. return	1"	1"
E D.H.W. inlet	-	1/2"
U D.H.W. outlet	-	1/2"
C1 Filling system	1/2"	-
S Boiler drain	1/2"	1/2"
A Air suction (type C)	ø 80	ø 80

Aqua HE - Aqua HE Inox ErP

		AQUA HE ErP		AQUA HE INOX ErP	
MODEL		25	35	25	35
Heat output (80÷60)	kW	25,5	33,0	25,5	33,0
Heat output (50÷30)		26,7	35,5	26,7	35,5
Heat input	kW	26,2	34,8	26,2	34,8
Useful perform. at 100% of the load	%	97,3	94,8	97,3	94,8
Useful perform. at 30% of the load (40-30°C)	%	110,4	106,6	110,4	106,6
Central heating energy efficiency class		A	A	A	A
Domestic hot water energy efficiency class		B	B	B	B
D.H.W. load profile declared		XL	XL	XL	XL
Sound power of the heating system	dB [A]	60	61,8	60	61,8
Cast iron elements	n°	3	4	3	4
Power consumption	W	175	193	175	193
Maximum water head	bar	4	4	4	4
Water content	l	24	28	20	24
Expansion vessel water content	l	10	12	10	12
Expansion vessel preloading pressure	bar	1	1	1	1
Loss of head smoke	mbar	0,16	0,21	0,16	0,21
Heating adjustment range	°C	45÷85	45÷85	45÷85	45÷85
D.H.W. adjustment range	°C	30÷60	30÷60	30÷60	30÷60
D.H.W. flow rate (EN 13203)	l/min	21	21	21	21
Contin. D.H.W. flow rate (Δt 30°C)	l/min	12	15,7	12	15,7
D.H.W. tank maximum water head	bar	7	7	7	7
D.H.W. tank water content	l	120	120	110	110
D.H.W. expansion vessel water content	l	4	4	4	4
Weight	kg	230	260	225	252

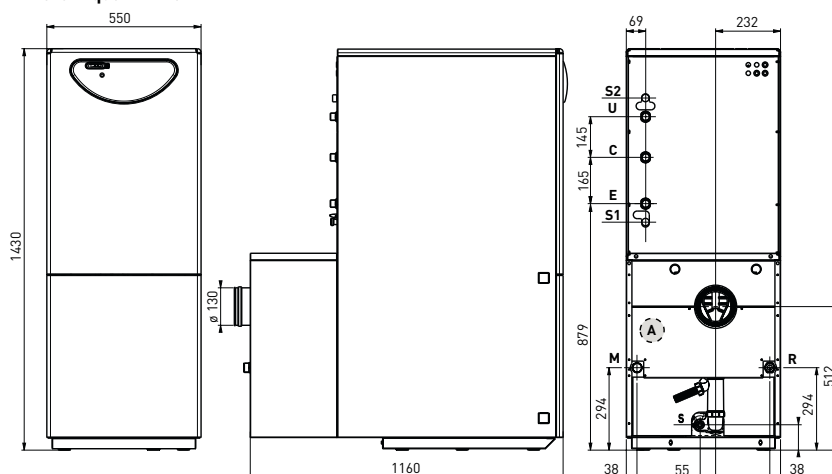
vers. Aqua HE ErP



Hydraulic connections

M	C.H. flow	1"
R	C.H. return	1"
E	D.H.W. inlet	3/4"
U	D.H.W. outlet	3/4"
C	Recirculation	3/4"
S	Boiler drain	1/2"
A	Air suction (type C)	ø 80
S1	System safety valve drain	
S2	D.H.W. tank safety valve drain	

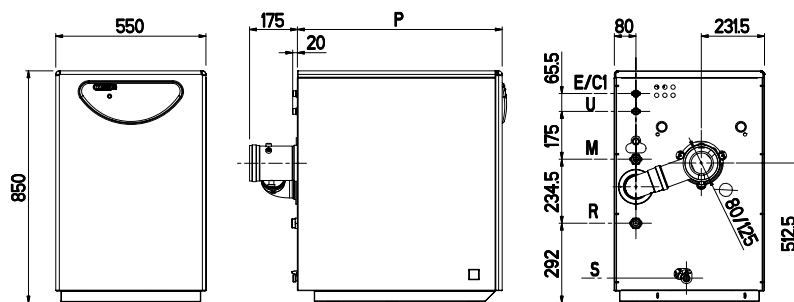
vers. Aqua HE Inox ErP



Solo - Duetto ErP

MODEL		SOLO ErP		DUETTO ErP	
		25	35	25	35
Heat output	kW	25,2	32,7	25,2	32,7
Heat input	kW	27,0	34,8	27,0	34,8
Useful perform. at 100% of the load	%	93,9	94,0	93,9	94,0
Useful perform. at 30% of the load (40-30°C)	%	97,9	97,6	97,9	97,6
Central heating energy efficiency class		B	B	B	B
Domestic hot water energy efficiency class		-	-	B	B
D.H.W. load profile declared		-	-	XL	XL
Sound power of the heating system	dB (A)	46	45	46	46
Cast iron elements	n°	4	5	4	5
Power consumption	W	175	195	175	195
Maximum water head	bar	4	4	4	4
Water content	l	22,0	26,0	22,0	26,0
Expansion vessel water content	l	10	10	10	10
Expansion vessel preloading pressure	bar	1	1	1	1
Loss of head smoke	mbar	0,16	0,21	0,16	0,21
Heating adjustment range	°C	45÷85	45÷85	45÷85	45÷85
D.H.W. adjustment range	°C	-	-	30÷60	30÷60
D.H.W. flow rate (EN 13203)	l/min	-	-	12	14
Contin. D.H.W. flow rate (Δt 30°C)	l/min	-	-	12	14
Minimum D.H.W. flow rate	l/min	-	-	2,5	2,5
D.H.W. tank maximum water head	bar	-	-	6	6
Depth (P)	mm	750	850	750	850
Weight	kg	137	162	176	201

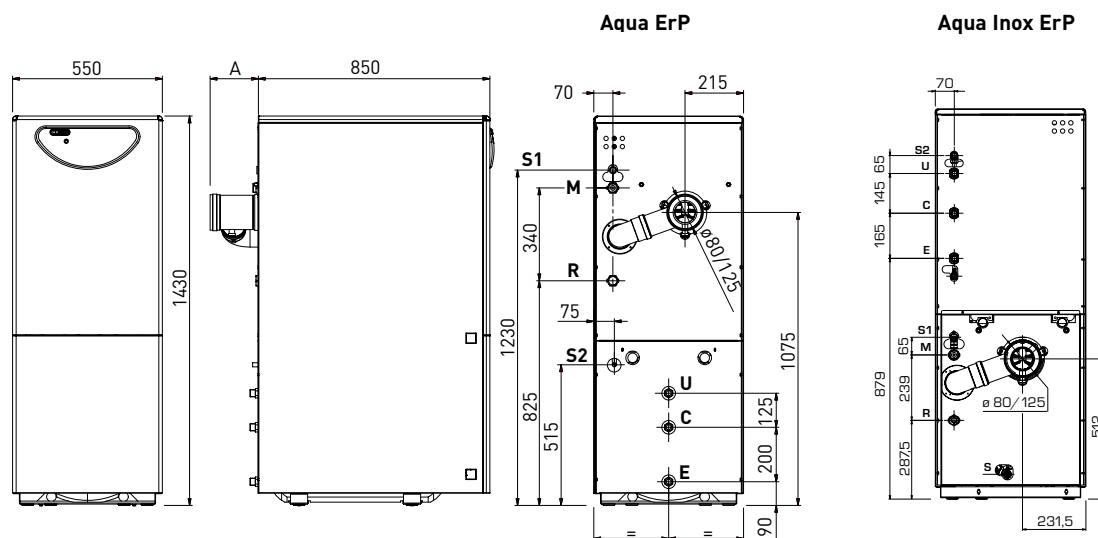
Solo ErP - Duetto ErP



Hydraulic connections	Solo ErP	Duetto ErP
M C.H. flow	1"	1"
R C.H. return	1"	1"
E D.H.W. inlet	-	1/2"
U D.H.W. outlet	-	1/2"
C1 Filling system	1/2"	-
S Boiler drain	-	-

Aqua - Aqua Inox ErP

		AQUA ErP		AQUA INOX ErP	
MODEL		25	35	25	35
Heat output	kW	25,3	32,7	25,3	32,7
Heat input	kW	27,0	34,8	27,0	34,8
Useful perform. at 100% of the load	%	93,9	94,0	93,9	94,0
Useful perform. at 30% of the load (40-30°C)	%	97,9	97,6	97,9	97,6
Central heating energy efficiency class		B	B	B	B
Domestic hot water energy efficiency class		B	B	B	B
D.H.W. load profile declared		XL	XL	XL	XL
Sound power of the heating system	dB (A)	47	50	47	50
Elements	n°	4	5	4	5
Power consumption	W	175	195	175	195
Maximum water head	bar	4	4	4	4
Water content	l	28,0	33,0	24,5	30,5
Expansion vessel water content	l	10	12	10	12
Expansion vessel preloading pressure	bar	1	1	1	1
Loss of head smoke	mbar	0,16	0,21	0,16	0,21
Heating adjustment range	°C	45÷85	45÷85	45÷85	45÷85
D.H.W. adjustment range	°C	30÷60	30÷60	30÷60	30÷60
D.H.W. flow rate (EN 13203)	l/min	21	21	21	21
Contin. D.H.W. flow rate (Δt 30°C)	l/min	12	15,6	12	15,6
D.H.W. tank maximum water head	bar	7	7	7	7
D.H.W. tank water content	l	120	120	110	110
D.H.W. expansion vessel water content	l	4	4	4	4
Dimensions (A)	mm	75	175	75	175
Weight	kg	226	254	220	247



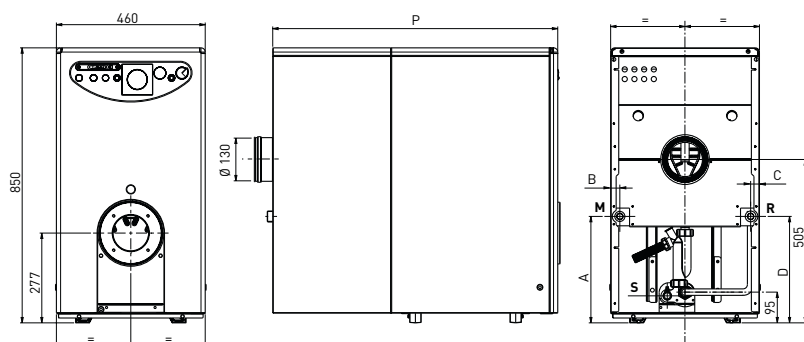
Hydraulic connections

M	C.H. flow	1"
R	C.H. return	1"
E	D.H.W. inlet	3/4"
U	D.H.W. outlet	3/4"
C	Recirculation	3/4"
S	Boiler drain	
S1	System safety valve drain	
S2	D.H.W. tank safety valve drain	

Estelle HE ErP - Estelle HE B Inox ErP

		ESTELLE HE ErP					
MODELLO		3	4	5	6	7	B4 Inox
Heat output (80-60°C)	kW	25,5	33,0	40,0	48,0	59,7	33,0
Heat output (50-30°C)	kW	26,2	35,5	42,2	50,5	62,8	35,5
Heat input	kW	26,2	34,8	41,0	49,0	61,0	34,8
Heating energy efficiency	%	97,0	94,0	93,0	93,0	93,0	94
D.H.W. energy efficiency	%	-	-	-	-	-	67
Central heating energy efficiency class		A	A	A	A	A	A
Domestic hot water energy efficiency class		-	-	-	-	-	B
D.H.W. load profile declared		-	-	-	-	-	XL
Elements	n°	3	4	5	6	7	4
Water content	l	13,8	17,8	21,8	25,8	29,8	24,5
Maximum water head	bar	4	4	4	4	4	4
Loss of head smoke	mbar	0,08	0,13	0,18	0,23	0,28	0,16
Heating adjustment range	°C	30÷85	30÷85	30÷85	30÷85	30÷85	30÷85
D.H.W. adjustment range	°C	-	-	-	-	-	30÷60
D.H.W. tank water content	l	-	-	-	-	-	110
D.H.W. flow rate (EN 13203)	l/min	-	-	-	-	-	21
D.H.W. tank maximum water head	bar	-	-	-	-	-	7
Depth (P)	mm	795	895	995	1095	1195	1015
Weight	kg	109	135	161	186	212	220

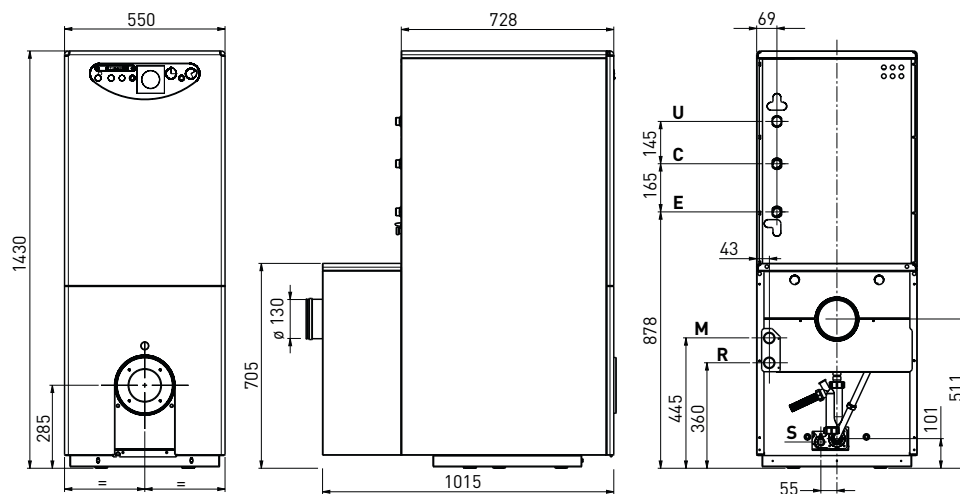
Estelle HE ErP



Dim.	3	4	5	6	7
A mm	330	330	325	325	325
B mm	28	28	128	128	128
C mm	28	28	33	33	33
D mm	330	330	390	390	390

Hydraulic connections	
M	C.H. flow 1"
R	C.H. return 1"
S	Boiler drain 1/2"

Estelle HE B Inox ErP

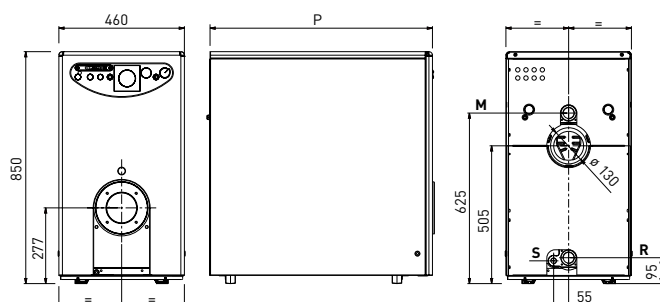


Hydraulic connections					
M	C.H. flow	1"	U	D.H.W. outlet	3/4"
R	C.H. return	1"	C	Recirculation	3/4"
E	D.H.W. inlet	3/4"	S	Boiler drain	

Rondò - Estelle ErP - Estelle B Inox ErP

		RONDÒ - ESTELLE ErP					
MODEL		4	5	6	7	B4 Inox	B5 Inox
Nominal heat output	kW	25,2	32,7	44,5	52,0	25,3	32,7
Nominal heat input	kW	27,0	34,8	46,1	55,0	27,0	34,8
Heating energy efficiency	%	87	87	90	90	86	86
D.H.W. energy efficiency	%	-	-	-	-	67	60
Central heating energy efficiency class		B	B	B	B	B	B
Domestic hot water energy efficiency class		-	-	-	-	B	B
D.H.W. load profile declared		-	-	-	-	XL	XL
Elements	n°	4	5	6	7	4	5
Water content	l	16,8	20,8	24,8	28,8	24,5	30,5
Maximum water head	bar	4	4	4	4	4	4
Loss of head smoke	mbar	0,16	0,21	0,26	0,31	0,16	0,21
Heating adjustment range	°C	30÷85	30÷85	30÷85	30÷85	30÷85	30÷85
D.H.W. adjustment range	°C	-	-	-	-	30÷60	30÷60
D.H.W. tank water content	l	-	-	-	-	110	110
D.H.W. flow rate [EN 13203]	l/min	-	-	-	-	21	21
Depth (P)	mm	515	615	715	815	728	728
Weight	kg	135	161	186	212	220	247

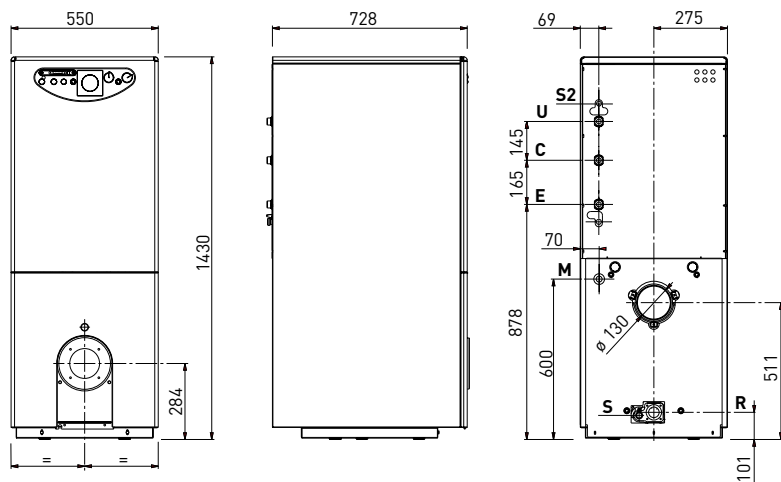
Rondò - Estelle ErP



Hydraulic connections

M	C.H. flow	1 1/4"
R	C.H. return	1 1/4"
S	Boiler drain	1/2"

Estelle B Inox ErP



Hydraulic connections

M	C.H. flow	1"
R	C.H. return	1 1/4"
E	D.H.W. inlet	3/4"
U	D.H.W. outlet	3/4"
C	Recirculation	3/4"
S	Boiler drain	
S2	D.H.W. tank safety valve drain	

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

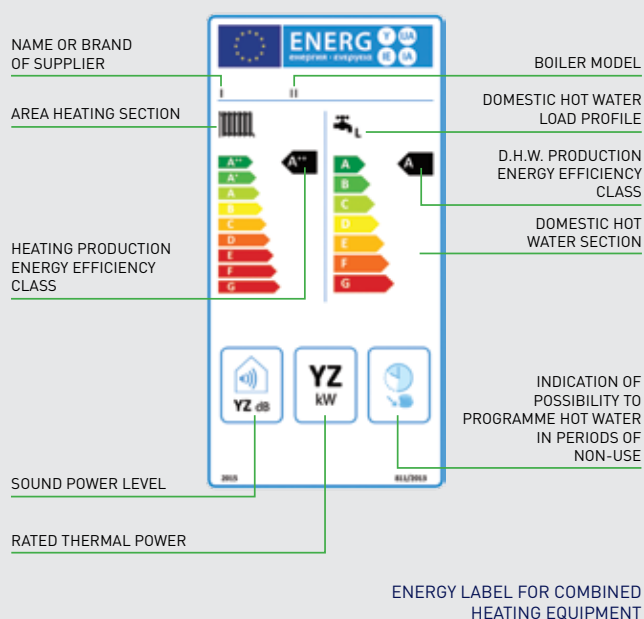
- › **Energy related Products (ErP) Directive**, which regulates eco-compatible design
- › **Energy Labelling Directive (ELD)**, which regulates the labelling of devices based on their energy efficiency.

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 the voluntary certifications ISO 14001 and OHSAS 18001 which recognise internationally the commitment and responsibility of Sime with regard to the environment and to worker safety. Through this important objective successfully reached Sime symbolises the corporate mission and continues on the path of continuous improvement of the activities and processes it will be committed to in the future.

