



MURELLE PRO HE IE ErP
SMALL SIZE, BIG PERFORMANCE



MURELLE PRO HE IE ErP: small size, big performance

Murelle Pro HE IE ErP are part of a new generation of 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.

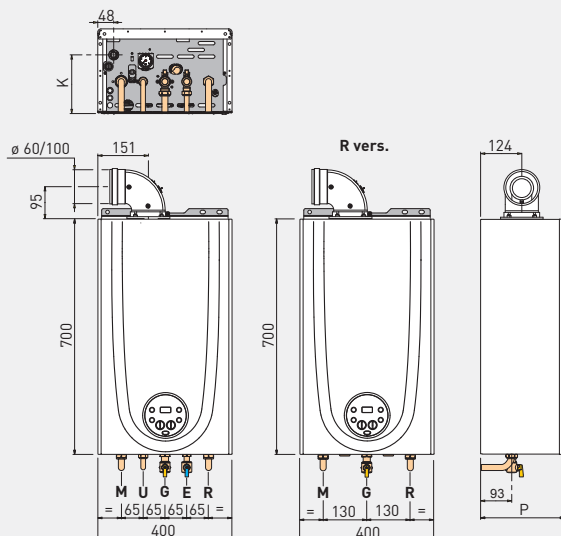
TECHNOLOGICAL ADVANTAGES

- Extremely compact dimensions
- Modulation of 1:5
- In built Service Timer option
- 3 Piece Casing for ease of servicing
- D.H.W. management with dual probe (Combi version)
- Combustion control with electronic feedback loop and electronic gas valve
- Optional Climatic Control

BOILER RANGE	
Combination	System
25 kW	Murelle Pro HE 25 R IE ErP
30 kW	Murelle Pro HE 30 IE ErP / Murelle Pro HE 30 R IE ErP
35 kW	Murelle Pro HE 35 R IE ErP
40 kW	Murelle Pro HE 40 R IE ErP

Amazing dimensions for its potential

The particularly compact dimensions are the most evident feature of the new Murelle Pro HE IE 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.



DIMENSIONS	25-30-35	40
A	700	700
L	400	400
P	250	300
K	175	214

CONNECTIONS

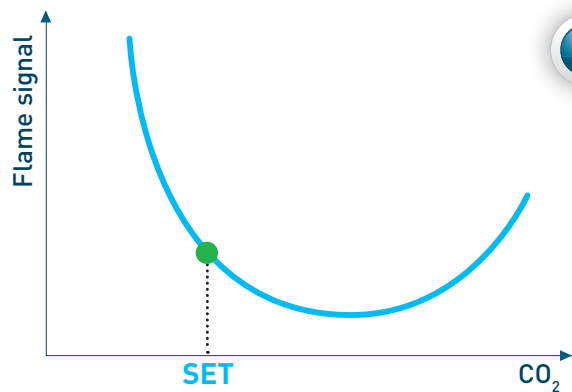
R	System return	ø 21,0 mm
M	System flow	ø 21,0 mm
G	Gas supply	ø 14,7 mm
E	Sanitary water inlet	ø 14,7 mm
U	Sanitary water outlet	ø 14,7 mm

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.

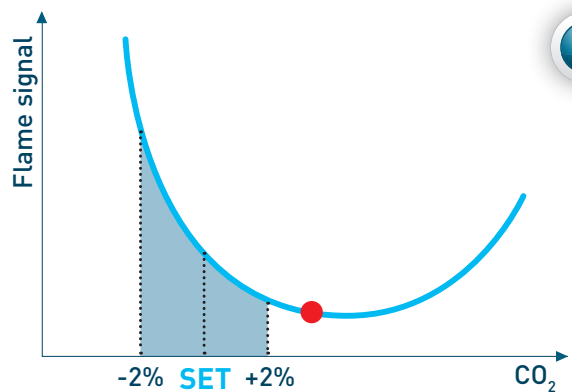
An active control of the combustion allows maintaining the system within the predefined limits of efficiency, safety and emissions.

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.



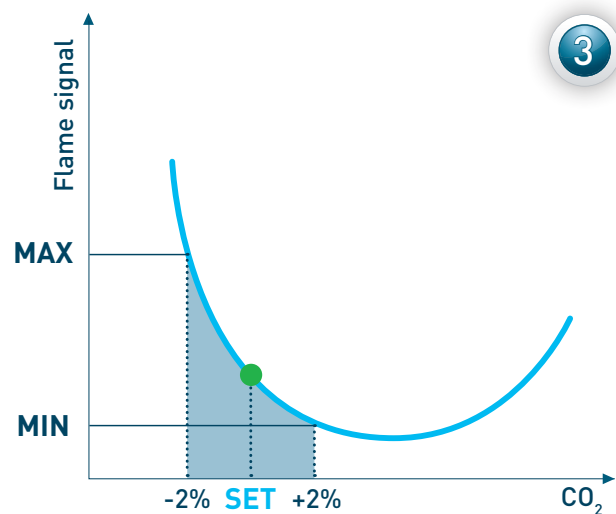
Upon ignition, the boiler works in optimal combustion conditions



During operation, the combustion undergoes drifts that may lead it outside of the predefined work field

SYSTEM BENEFITS

- 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
- Increased reliability by eliminating the air pressure switch from traditional combustion boilers
- Greater ease of LPG/Natural gas conversion through a parameter change on the control panel eliminating any requirement for changeover kits



The system detects the drift and automatically runs a new calibration to go back to working at the pre-defined set

The range in detail



Combi version

MURELLE PRO HE R IE ErP

MURELLE PRO HE IE ErP

Casing	3 pieces	3 pieces
User interface	4 keys + 1 knob	4 keys + 2 knobs
Water gauge	pressure switch + water gauge	pressure switch + water gauge
Display	Blue back-lit LCD with 7 symbols	Blue back-lit LCD with 7 symbols
Wide range	25-30-35-40 system	30 combi
PERFORMANCES		
Modulation	1:5 heating	1:5 heating
Climatic adjustment	integrated	integrated
Anti-freeze function	protection up to -5°C	protection up to -5°C
SANITARY		
D.H.W. dual probe	—	✓
Increased plate exchanger	—	standard
Flow meter/flow meter	—	flow meter
ACCESSORIES		
Hydraulic fitting cover	✓ accessory	✓ accessory
Anti-freeze kit	-15°C	-15°C

TECHNICAL DATA

		MURELLE PRO HE IE ErP				
		25 R	30 R	35 R	40 R	30
Model						
Nominal heat output (80-60°C)	kW	23,6	29,5	34,1	39,1	23,6
Nominal heat output (50-30°C)	kW	25,7	32,2	36,8	42,2	25,7
Minimum heat output (80-60°C)	kW	4,7	5,9	5,9	6,9	4,7
Minimum heat output (50-30°C)	kW	5,1	6,5	6,5	7,5	5,1
Nominal heat input	kW	24,0	30,0	35,0	40,0	24,0
Minimum heat input	kW	4,8	6,0	6,0	7,0	4,8
Max / Min useful efficiency (80-60°C)	%	98,3 / 97,9	98,3 / 98,3	97,5 / 98,4	97,6 / 98,6	98,3 / 97,9
Max / Min useful efficiency (50-30°C)	%	107,1 / 106,3	107,3 / 108,3	105,3 / 107,6	105,3 / 107,1	107,1 / 106,3
Useful efficiency at 30% of load (40-30°C)	%	107,0	107,0	107,0	107,0	107,0
HARP EFFICIENCY (NG)	%	90,5	90,5	90,4	90,6	90,4
HARP EFFICIENCY (LPG)	%	91,5	91,5	91,4	91,6	91,4
Heating seasonal energy efficiency class		A	A	A	A	A
Domestic hot water energy efficiency class		—	—	—	—	A
Sound power	db(A)	56	53	56	56	56
Absorbed electrical power Qn max	W	73	78	92	111	85
Absorbed electrical power Qn min	W	52	52	57	58	52
Absorbed electrical power in stand-by	W	3,6	3,6	3,6	3,6	3,6
Electric protection degree	IP	X5D	X5D	X5D	X5D	X5D
Heating adjustment range	°C	20÷80	20÷80	20÷80	20÷80	20÷80
Water content in boiler	l	4,6	4,7	4,7	5,4	4,7
Maximum operating pressure	bar	3	3	3	3	3
Max operating temperature	°C	85	85	85	85	85
Heating expansion vessel pressure	bar	1	1	1	1	1
D.H.W. adjustment range	°C	—	—	—	—	10÷60
D.H.W. nominal heat output	kW	—	—	—	—	28,0
D.H.W. nominal heat input	kW	—	—	—	—	4,8
D.H.W. flow rate Δt 30°C	l/min	—	—	—	—	12,9
Minimum D.H.W. flow rate	l/min	—	—	—	—	2,2
Min/max D.H.W. pressure	bar	—	—	—	—	0,5/7,0
Max ø 60/100 horizontal length	m	6	6	4	4	6
Max ø 80/125 horizontal length	m	12	10	10	10	10
Max 80+80 horizontal twin pipe length	m	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
Min/max ø 60/100 vertical length	m	1,3 / 8	1,3 / 7	1,3 / 6	1,3 / 6	1,3 / 7
Min/max ø 80/125 vertical length	m	1,2 / 15	1,2 / 13	1,2 / 13	1,2 / 13	1,2 / 13
Max 80+80 vertical twin pipe length	m	25+25	25+25	25+25	25+25	25+25
Max 60+60 vertical twin pipe length	m	8+8	7+7	6+6	6+6	7+7
NOx class		5	5	5	5	5
Weight	kg	28,5	28,5	30,0	32,5	28,5