sime

VALUING YOUR CLIMATE

HIGH POWER

OFFERING MORE THAN 35 KW

Modern design standards in terms of comfort, economy of operation and management, environmental protection, ease of installation and use, have created the need for an extensive and innovative range of products. Sime offers with a 360° range of powerful heat generators that completely satisfy heating demands.


ALU PLUS HE
ALU PLUS HE

	MODELS	HEAT OUTPUT
High power hung boilers	Murelle HE R ErP	from 3,2 to 147,5 kW
Modular systems	Murelle Equipe ErP Murelle Equipe Box ErP	from 3,2 to 955,8 kW
High power aluminum boilers	Alu HE - Alu Plus HE	from 19,2 to 985 kW

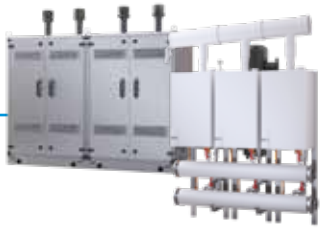
THE RANGE OF THERMAL POWER PLANT SYSTEMS

MURELLE HE R ErP

High power condensing wall-hung boiler for heating only

MURELLE EQUIPE ErP
MURELLE EQUIPE BOX ErP

Modular systems with multiple condensing generators in cascade, suitable for indoor and outdoor installation



ALU HE - ALU PLUS HE

Aluminum-silicon condensing gas boilers for heating only

MURELLE HE R ErP

BIO METHANE 100%
GREEN FLAME

WIDE MODULATION RANGE
1:10 for 35 kW version, 1:5 for 50, 70, 110 and 150 kW versions

HIGH EFFICIENCY
Modulating circulator pump

MANAGEMENT OF UP TO 8 BOILERS
In cascade supplied as standard

MODBUS COMMUNICATION POSSIBILITY
Can be managed by PLC or external thermoregulations

MANAGEMENT OF THREE HEATING CIRCUITS

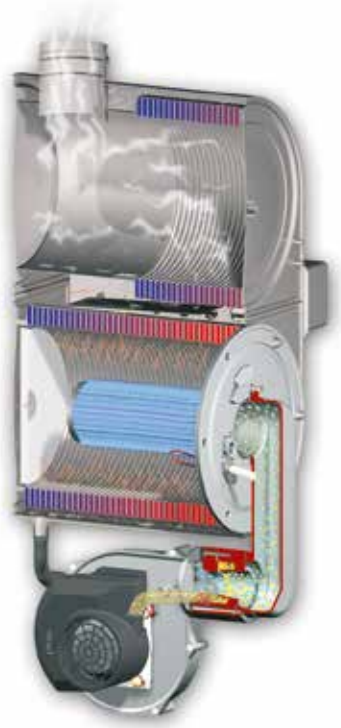
HIGH-POWER WALL HUNG BOILER

Murelle HE R ErP is a new range of pre-mix, high-power condensing boilers.
It is available in 5 versions from 33,8 to 147,5 kW, heat only. It is designed to be installed individually in a technical room, resolving problems of space and handling.
The extraordinary flexibility of the equipment allows for the management of three heating circuits at different temperatures and, through optional kits, of a forced circulation solar system and two low temperature areas.
Murelle HE R ErP is also suitable for cascade operation: with the new on-board electronics, it is possible to manage up to 8 generators.

A GREEN HEART

All high-power wall-hung boilers and modular systems are equipped with 35, 50, 70, 110 or 150 kW condensing coil heat exchangers, characterised by high efficiency. The combustion of methane generates water vapour which in traditional boilers is conveyed to the outside through the release of flue gases from the chimney. Its particular cylindrical shape (single for the 35, 50, 70 and 150 kW models and double overlapping configuration for 110 kW models) as well as the efficient collection system of the liquid condensate, ensure the best possible heat exchange.

The radial pre-mix burner is made of steel. Characterised by a cylindrical shape and positioned at the centre of the combustion chamber, it produces a particular "microflame" at low temperature which reduces the production of pollutants (CO and NOx) significantly. The air and the gas necessary for combustion enter the burner and are mixed in an ideal balanced ratio.
The recovery of heat contained in the combustion flue gases takes place through a particular process: the water vapour content of the flue gases condenses when in contact with the surfaces of the heat exchanger made cooler by the return water from the heating circuit.
During the condensation, the transfer of energy takes place that would otherwise be lost with the release of the flue gases.

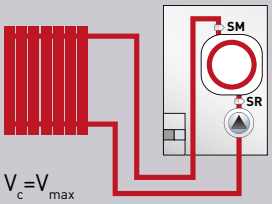


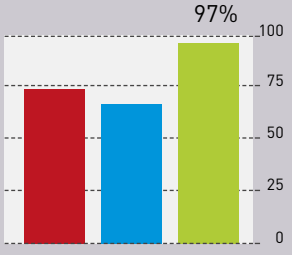
110 kW Exchanger

MODULATING CIRCULATOR PUMP

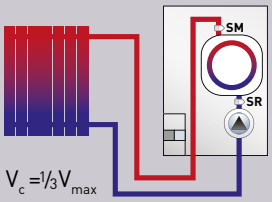
The range includes a high-efficiency modulating circulator pump, which thanks to a two-probe management system (flow and return), the variable pump speeds allow the adjustment of the flow rate to maintain the temperature of the return water at the desired level.
The boiler regulates and maintains the flow temperature at a preset value (e.g. 70°C), while through the modulating circulator pump it reduces the system water flow rate until obtaining the desired ΔT (e.g. ΔT = 30°C) between the flow and return, so as to optimise the condensing process.
Thanks to the variable speed circulator pump and the control system, the boiler always guarantees maximum fuel efficiency.

HIGH SPEED OF THE PUMP





LOW SPEED OF THE PUMP



Flow Temp. (°C) Return Temp. (°C) Output (%)

MURELLE EQUIPE ErP
MURELLE EQUIPE BOX ErP

BIO METHANE 100%
GREEN FLAME

WIDE MODULATION RANGE
The modular approach provides a wide working range (up to 1:25) and guaranteed service even if a generator fails

CAN BE MANAGED BY AN EXTERNAL THERMOREGULATION SYSTEM

BMS

FRACTIONAL DIMENSIONS AND WEIGHTS
Easy installation is possible even for heating plants with problematic access or on upper floors

SUITABLE FOR OUTDOOR INSTALLATION
With cabinet made of galvanized steel, pre-painted and insulated, resistant to atmospheric agents (Murelle Equipe Box ErP versions)

A COMPLETE SYSTEM

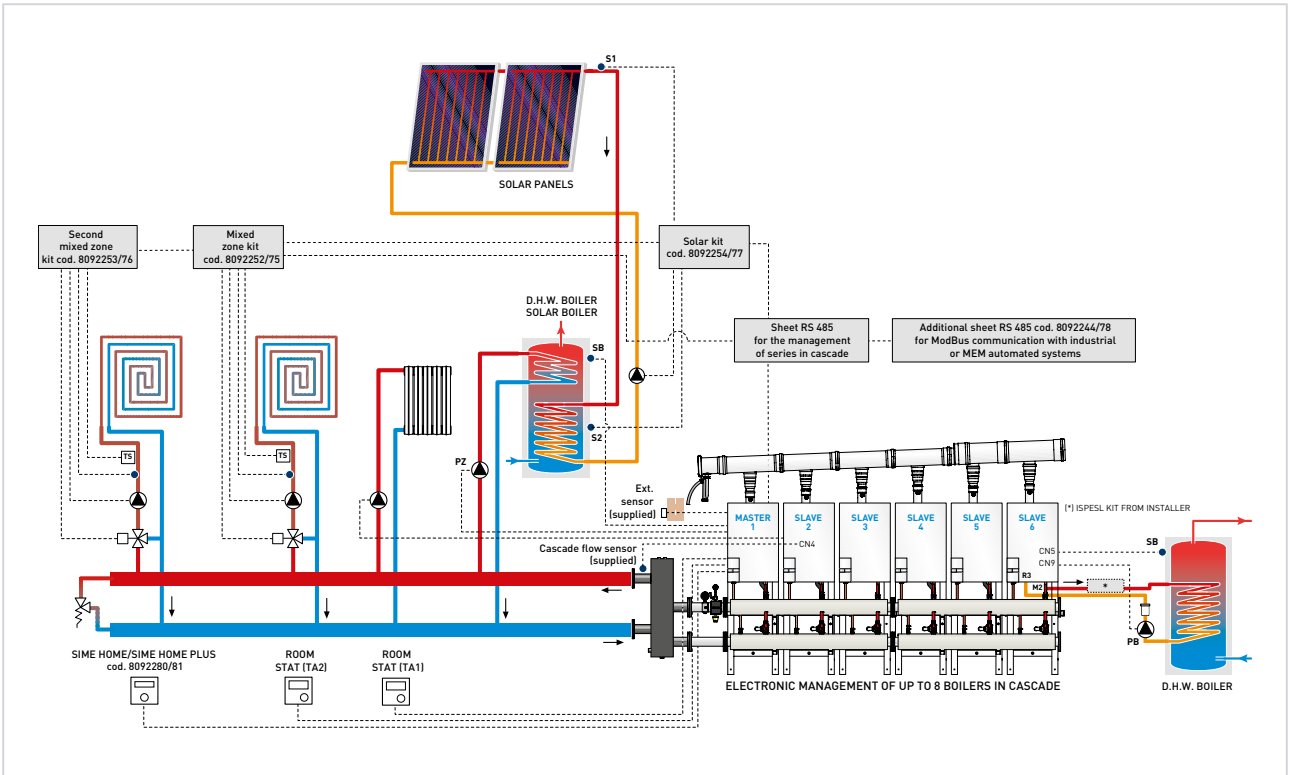
The Murelle Equipe ErP condensing modular systems are the result of constant technological research by Sime and developed from the combination of the principle of condensation and fragmentation of power. Murelle Equipe ErP are made by assembling individual 35, 50, 70,110 and 150 kW generators, thus developing different power levels.

The system exploits the possibility of use in cascade and high flexibility, which ensures operation in all conditions, with the great advantages of condensation and a sliding temperature. It has a small size, light weight, is quiet and quick to install.

To guarantee reliability and safety, the Murelle Equipe ErP modular systems have safety kits available as an option complete with each device (excluding the VIC), which can be installed both on the right and on the left of the modular system depending on the type of system.

The Murelle Equipe ErP modular systems can be installed inside a thermal power plant or outside with complete versions of cabinets made of pre-painted galvanised, insulated and weather-resistant sheet metal. Murelle Equipe ErP condensing modular systems are designed to facilitate quick and easy installation; all the components needed are supplied to assist operators with complete installation of the modular unit. Sime provides a comprehensive system of condensing heat generators, pre-sized collectors for hydraulic and gas connection, condensate collectors, fittings, management cards and exhaust systems for combustion products.
For indoor installation, the system provides frames for wall mounting while for outdoor installation, cabinets complete with mounting brackets for generators and collectors are supplied.
An appropriate range of optional hydraulic compensators and plate exchangers is offered.

MURELLE HE R ErP
COMPLETE SYSTEM TYPE



ALU HE
ALU PLUS HE

BIO METHANE 100%
GREEN FLAME

COMPACT DIMENSIONS
Reduced weight and low pressure drops on the water side

MODULATING BURNER
Pre-mixing and sliding temperature operation with external probe as standard

CASCADE MANAGEMENT
Up to 8 boilers supplied and can also be managed by an external thermoregulation system

SMOKE OUTLET IN THE LOWER PART OF THE BOILER

WHEELS EQUIPPED
For easier handling
(Alu Plus HE versions)

HIGH-POWER ALUMINIUM

Sime enriches its offer of centralised heating systems with floor-standing condensing gas boilers Alu HE and Alu Plus HE covering a range of power from 80 to 280 kW (Alu HE vers.) and 360-450-540-720-1100 kW (Alu Plus HE vers.).
The exchanger is made of pre-assembled elements in an aluminium and silicon alloy, a highly reliable material in terms of its thermal conductivity. The bodies of the Alu HE and Alu Plus HE versions are equipped with a completely water cooled combustion chamber and are combined with only one burner and fan.

The boilers, with a medium water content, are particularly compact and lightweight. The low thermal inertia enables a prompt response to the system's requests for power variations, while the wide water passages protect against dirt and ensure low load losses.

Moreover, premix combustion ensures these boilers fall well within the strict limits imposed by European and international regulations in regards to polluting emissions.

THE BOILER IN DETAIL

CONTROL PANEL
supplied standard with outdoor probe, allows regulation of flow temperature based on outdoor temperature (sliding temperature function)

FAN
with variable speed for modulation and air/gas mixing

BURNER WITH MICROFLAME
in stainless steel and with total premixing, allows high modulation ratios, stable combustion and low polluting emissions (NOx class = 6)

ALUMINIUM BODY
composed of preassembled elements in an aluminium and silicon alloy, with medium water content and high exchange surface, to maximise energy efficiency and heat output

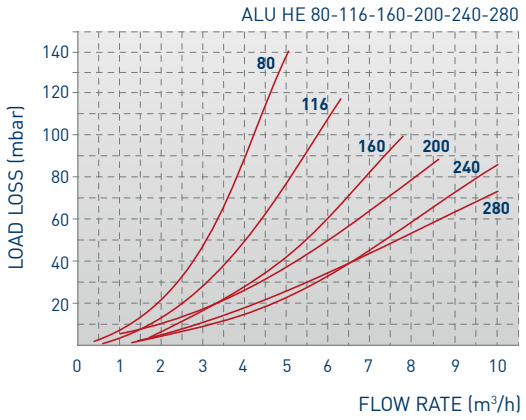
RETURN MANIFOLD

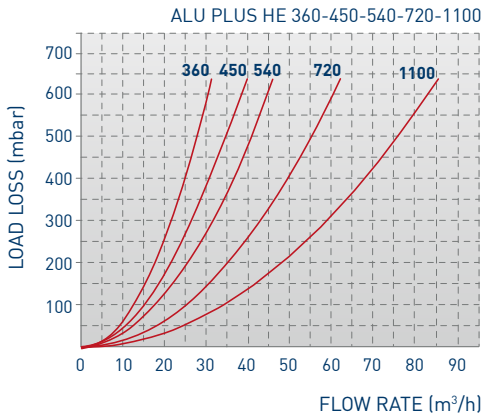
FLUE CHAMBER/CONDENSATE MANIFOLD

PRODUCT ADVANTAGES

LOW LOAD LOSSES

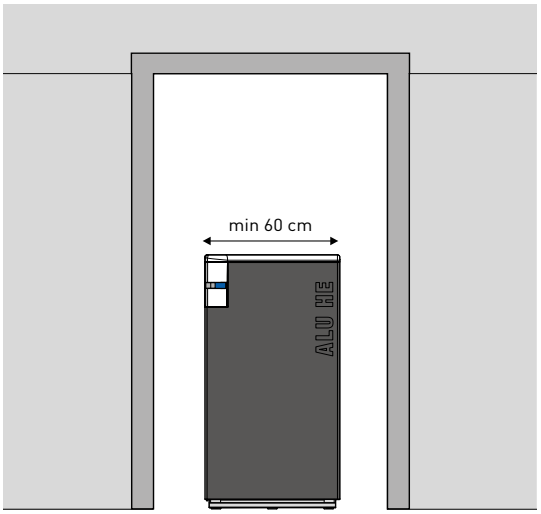
The passages' geometry allows for efficient heat exchange and low pressure drops





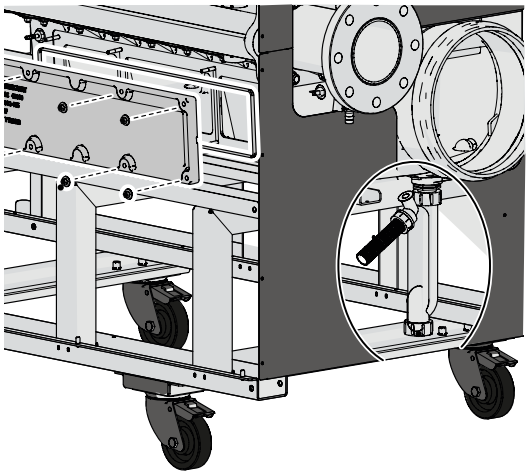
DIMENSIONS

All Alu HE models can easily fit through the doors of heating plant rooms with openings starting from 60 cm.



EASY HANDLING

Alu Plus HE is supplied with wheels as standard.



TECHNICAL AND SAFETY FEATURES

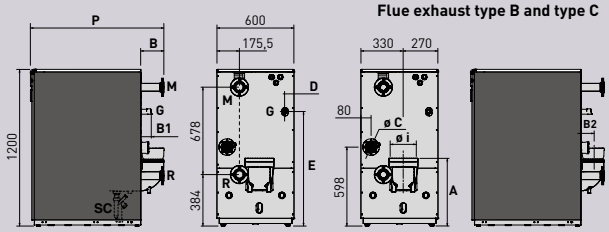
	Murelle HE R ErP	Murelle Equipe ErP	Murelle Equipe Box ErP	Alu HE Alu Plus HE
Electronic board with microprocessor	●	●	●	●
Continuous electronic modulation of flame	●	●	●	●
Automatic ignition and ionisation of flame	●	●	●	●
Chimney sweep function that facilitates the analysis of combustion	●	●	●	●
Antifreeze system created with heating probe	●	●	●	●
Collectors of water flow and return and gas supply system	x	●	●	x
Unidirectional valves	x	●	●	x
Exhaust condensate including drain pipe	●	x	x	●
Collector of exhaust condensate including drain pipe	x	●	●	x
Water/flue exchanger made of stainless steel	●	●	●	x
Scambiatore acqua/fumi in alluminio silicio	x	x	x	●
Flue collector made of polypropylene for indoor installation	x	●	o	x
Single flue release terminal for external installation	x	x	o	x
Premix burner with low NOx	●	●	●	●
Pump on the primary circuit with air separator	●	●	●	x
High efficiency pump	●	●	●	x
Post circulation of the pump	●	●	●	●
Post ventilation of fan	●	●	●	●
Gas valve with modulator and double valve that interrupts gas release in the absence of flame	●	●	●	●
External temperature sensor	●	●	●	●
External casing made of galvanised pre-painted weather-resistant sheet metal	x	x	●	x
Self-diagnostics via LCD display	●	●	●	●
Safety in case of lack of water	●	●	●	●
Safety thermostat	●	●	●	●
Flue thermostat for the protection of the exhaust pipe in polypropylene	●	●	●	●
Safety valve 3.5 BAR (5 BAR for versions with 100 kW motor) per unit of heat	●	●	●	o
INAIL safety kit	o	o	o	o
Hydraulic compensator kit	o	o	o	x

● Series o Optional x Not planned

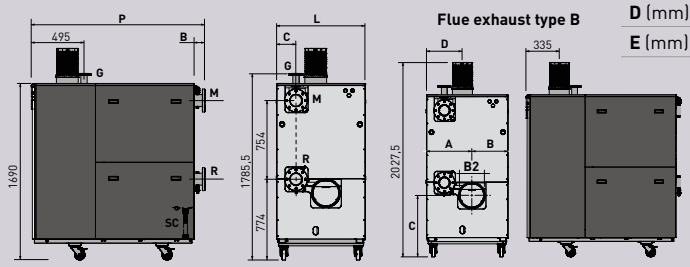
ALU HE - ALU PLUS HE

Alu HE / Alu Plus HE		80	116	160	200	240	280	360	450	540	720	1100
Nominal heat output (80-60°C)	kW	77,8	112,3	156,1	195,7	234,4	275,4	353,0	444,5	507,9	708,5	985,0
Nominal heat output (50-30°C)	kW	83,8	122,0	168,2	208,6	251,8	295,3	378,0	472,5	541,9	756,0	1053,0
Reduced heat output (80-60°C)	kW	19,2	20,1	30,6	37,8	46,5	60,4	78,4	103,3	120,0	147,3	196,4
Reduced heat output (50-30°C)	kW	21,6	22,8	34,3	42,5	52,0	66,0	84,5	110,5	120,0	158,0	211,0
Nominal heat input	kW	80,0	115,5	160,0	200,0	240,0	280,0	360,0	450	515	720,0	1.000,0
Reduced heat input	kW	20,0	21,0	32,0	40,0	48,0	62,0	80,0	103,3	117,9	150,0	200,0
Minimum useful yield (80-60°C)	%	95,9	95,6	95,6	94,4	96,8	97,4	98,0	98,8	98,6	98,2	98,2
Maximum useful yield (80-60°C)	%	97,3	97,2	97,5	97,8	97,7	98,3	98,1	98,4	98,2	98,4	98,5
Minimum useful yield (50-30°C)	%	108,2	108,5	107,1	106,2	108,4	106,4	105,6	105,0	105,2	105,3	105,5
Maximum useful yield (50-30°C)	%	104,7	105,6	105,1	104,3	104,9	105,4	105,0	105,2	105,6	105,0	105,3
Useful thermic output at 30% of load	%	108,2	108,1	108,1	108,0	108,1	108,3	108,1	108,0	108,4	108,3	108,2
Electrical power consumption	W	211	263	230	360	408	438	532	572	615	1.965	2.134
NOx Class		6	6	6	6	6	6	6	6	6	6	6
Boiler water content	l	12,5	15,3	18,0	22,9	25,6	28,4	44,0	50,0	56,0	68,0	91,0
Maximum operating pressure	bar	6	6	6	6	6	6	6	6	6	6	6
Maximum operating temperature	°C	85	85	85	85	85	85	85	85	85	85	85
Load loss water side Nominal Δt (20°C)	mbar	65	80	80	90	90	100	160	160	160	160	160
Maximum Δt at min/max power	°C	35/25	35/25	35/25	35/25	35/25	35/25	25	25	25	25	25
Water flow rate Δt 20°C (nominal)	m3/h	3,34	4,83	6,67	8,41	10,08	11,84	15	19	23	31	43
Water flow rate Δt 10°C	m3/h	6,69	9,66	13,34	16,82	20,16	23,7	30	38	46	62	86
Max/min flue gas temperature 80-60°C	°C	66/57	65,1/56	61,9/58,1	69,6/58,1	70,7/58,3	69,2/61,5	68,1/55,3	64,7/53,8	68,5/57,1	70,1/58,0	74,6/63,2
Max/min flue gas temperature 50-30°C	°C	51/32	46,4/30,4	52,3/34,5	50,6/31	50,2/30,3	49,6/35,9	53,1/30,7	52,6/35,8	50,7/32,1	50,1/29,7	57,6/34,5
Max smoke outlet pressure	Pa	250	250	200	200	200	100	200	150	150	300	250
Weight	kg	140	160	180	210	227	245	450	398,0	398,0	580	680

Alu HE



Alu Plus HE



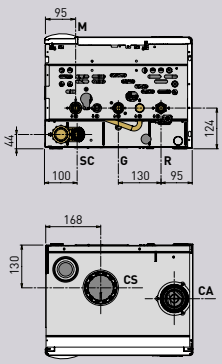
DIMENSIONS	80	116	160	200	240	280	360	450	540	720	1100
L (mm)	-	-	-	-	-	-	750	750	750	850	850
P (mm)	1.116	1.116	1.116	1.317	1.317	1.317	1.652	1.652	1.652	1.652	1.976
A (mm)	595	595	595	510	510	510	444	444	444	472,5	472,5
B (mm)	170	170	170	239	239	239	100	100	100	100	117
B1 (mm)	81	81	81	158	158	158	1.056	1.056	1.056	1.056	1.366
B2 (mm)	93	93	93	118	118	118	306	306	306	377,5	377,5
C (mm)	-	-	-	-	-	-	157	157	157	186	186
C1 (mm)	-	-	-	-	-	-	643,5	643,5	643,5	643,5	645,5
D (mm)	71	71	71	75,4	75,4	75,4	341	341	341	372,5	372,5
E (mm)	872	872	872	870,5	870,5	870,5	-	-	-	-	-

LEGEND		80	116	160	200	240	280	360	450	540	720	1100
M	C.H. flow	PN 10 DN50							PN 16 DN100			
R	C.H. return	PN 10 DN50							PN 16 DN100			
SC	Condensate outlet	ø 15 mm							ø 15 mm			
G	Gas supply	ø 1"G							PN 6 DN50			
Ø C	Air inlet	80	80	80	100	100	100	-			-	-
Ø i	Exhaust	160	160	160	200	200	200	250			250	250

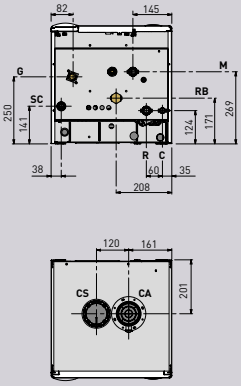
MURELLE HE R ErP

Murelle HE R ErP		35	50	70	110	150
Nominal heat output (80-60°C)	kW	33,8	46,8	63,4	106,3	147,5
Reduced heat output (80-60°C)	kW	3,2	9,3	13,6	21,1	25,9
Nominal heat output (50-30°C)	kW	37,2	51,2	69,4	114,6	159,3
Reduced heat output (50-30°C)	kW	3,7	10,5	15,3	23,6	28,5
Nominal heat input	kW	34,8	48,0	65,0	108,0	150
Reduced heat input	kW	3,48	9,6	14,0	21,6	27,0
Minimum useful yield (80-60°C)	%	92,0	96,9	97,0	97,7	98,3
Maximum useful yield (80-60°C)	%	97,1	97,5	97,5	98,4	96,0
Minimum useful yield (50-30°C)	%	106,3	109,0	109,1	109,1	106,2
Maximum useful yield (50-30°C)	%	106,8	106,7	106,7	106,1	105,6
Useful thermic output at 30% of load	%	108,6	108,5	108,3	108,1	108,5
Heating energy efficiency class		A	A	A	–	–
Sound power of the heating system	dB(A)	56	53	69	–	–
Losses after shutdown	W	108	76	86	126	155,0
Adsorbed power consumption	W	109	141	187	258	571,0
Electrical protection grade	IP	X4D	X4D	X4D	X4D	X5D
Water content modules	l	2,65	2,30	3,5	8,20	25,10
Maximum operating pressure	bar	3,5	3,5	3,5	5,0	5,0
Max pressure of flue collector release	Pa	180	160	150	428	343
Max/min flue gas temperature 80-60°C	°C	70,0/60,0	85,0/70,0	87,0/74,0	86,2/74,6	84,7/63,6
Max/min flue gas temperature 50-30°C	°C	40,0/33,0	52,0/45,0	55,0/48,0	61,6/49,2	56,8/37
NOx Class (EN 15502-1:2015)		6	6	6	6	6
Weight	kg	32	38	39	87	102

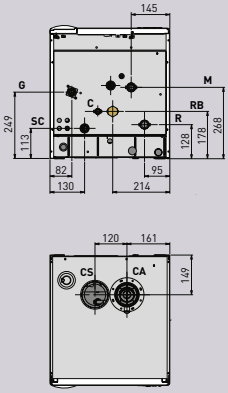
Murelle HE 35 R ErP



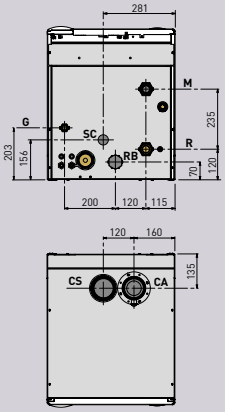
Murelle HE 50 R ErP



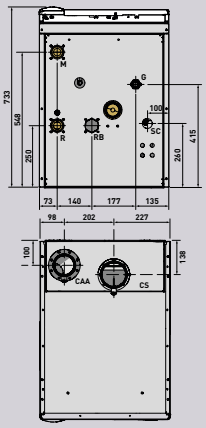
Murelle HE 70 R ErP



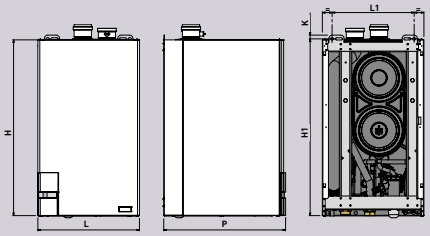
Murelle HE 110 R ErP



Murelle HE 150 R ErP



LEGEND		35	50-70	110	150
M	C.H. flow	3/4"	1"	1 1/2"	1"1/2
R	C.H. return	3/4"	1"	1 1/2"	1"1/2
G	Gas supply	3/4"	3/4"	3/4"	1"
SC	Condensate outlet	ø 25	ø 25	ø 25	ø 25
RB	Boiler return	-	1"	1 1/2"	1"1/2
C	Filling system	-	1/2"	-	-
CA	Air inlet	ø 80	ø 80	ø 80	ø 80
CS	Exhaust	ø 80	ø 80	ø 80	ø 100



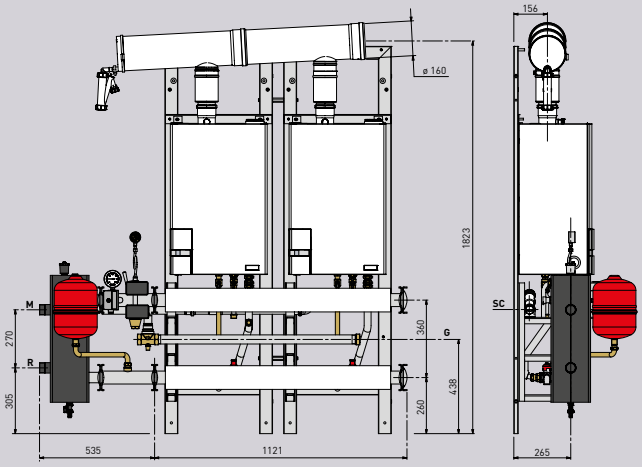
DIMENSIONS	35	50	70	110	150
L (mm)	450	450	450	500	525
L1 (mm)	-	385	385	405	-
P (mm)	350	440	490	600	733
H (mm)	700	700	700	865	895
H1 (mm)	-	721	721	870	-
K (mm)	-	15	15	18,5	-

MURELLE EQUIPE ErP

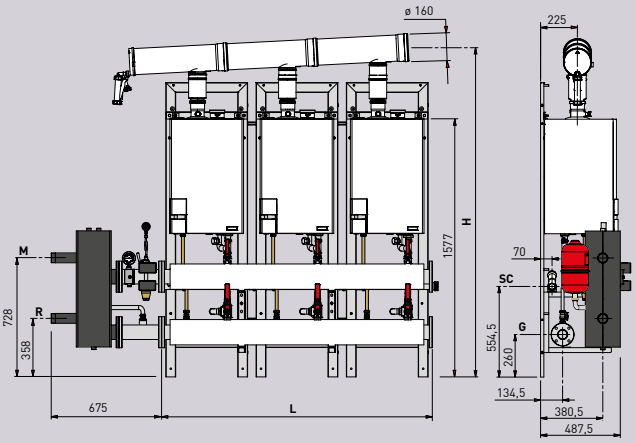
Murelle Equipe ErP		**70**	**100**	**140**	**150**	**220**	**280**	**300**	**330**
Nominal heat output (80-60°C) / (50-30°C)	kW	67,6 (2x33,8) / 74,4 (2x37,2)	93,6 (2x46,8) / 102,4 (2x51,2)	126,8 (2x63,4) / 138,8 (2x69,4)	140,4 (3x46,8) / 153,6 (3x51,2)	212,6 (2x106,3) / 229,2 (2x114,6)	271,5 (3x90,5) / 294,3 (3x98,1)	295 (2x147,5) / 318,6 (2x159,3)	318,9 (3x106,3) / 343,8 (3x114,6)
Reduced heat output (80-60°C) / (50-30°C)	kW	3,2 / 3,7	9,3 / 10,5	13,6 / 15,3	9,3 / 10,5	21,1 / 23,6	21,1 / 23,6	25,9 / 28,5	21,1 / 23,6
Nominal heat input	kW	69,6 (2x34,8)	96,0 (2x48,0)	130,0 (2x65,0)	144,0 (3x48,0)	216,0 (2x108,0)	277,5 (3x82,5)	300 (2x150)	324,0 (3x108,0)
Reduced heat input	kW	3,48	9,6	14,0	9,6	21,6	21,6	27,0	21,6
Minimum useful yield (80-60°C)	%	92,0	96,9	97,0	96,9	97,7	97,7	96,0	97,7
Maximum useful yield (80-60°C)	%	97,2	97,5	97,5	97,5	98,4	97,8	98,3	98,4
Minimum useful yield (50-30°C)	%	106,3	109,0	109,1	109,0	109,1	109,1	105,6	109,1
Maximum useful yield (50-30°C)	%	106,8	106,7	106,7	106,7	106,1	106,1	106,2	106,1
Useful thermic output at 30% of load	%	108,6	108,6	108,3	108,5	108,1	108,1	108,5	108,1
Adsorbed power consumption	W	216 (2x108)	282 (2x141)	374 (2x187)	423 (3x141)	516 (2x258)	735 (3x245)	656 (2x328)	774 (3x258)
Heating energy efficiency class		A	-	-	-	-	-	-	-
Sound power of the heating system	dB(A)	58	-	-	-	-	-	-	-
NOx Class		6	6	6	6	6	6	6	6
Generators	**n°**	**2x35**	**2x50**	**2x70**	**3x50**	**2x110**	**3x92,5**	**2x150**	**3x110**
Modules water content		10,8	25,5	27,7	43,7	36,3	55,9	88	55,9
Max/min flue gas temp. 80-60°C	°C	70,0 / 60,0	85,0 / 70,0	87,0 / 74,0	85,0 / 70,0	86,2 / 74,6	72,1 / 58,4	84,7 / 63,6	86,2 / 74,6
Max/min flue gas temp. 50-30°C	°C	40,0 / 33,0	52,0 / 45,0	55,0 / 48,0	52,0 / 45,0	61,6 / 49,2	51,3 / 35,1	56,8 / 37	61,6 / 49,2
Max. press. of flue collector release	Pa	180	160	148	160	375	375	270	375
Maximum operating pressure	bar	3,5	3,5	3,5	3,5	5	5	5	5
Weight	kg	160	210	227	280	350	420	506	506

Murelle Equipe ErP		**370**	**440**	**450**	**550**	**600**	**660**	**750**	**900**
Nominal heat output (80-60°C) / (50-30°C)	kW	362,0 (4x90,5) / 392,4 (4x98,1)	425,2 (4x106,3) / 458,4 (4x114,6)	442,5 (3x147,5) / 477,9 (3x159,3)	531,5 (5x106,3) / 573,0 (5x114,6)	590 (4x147,5) / 637,2 (4x159,3)	637,8 (6x106,3) / 687,6 (6x114,6)	737,5 (5x147,5) / 796,5 (5x159,3)	885 (6x147,5) / 955,8 (6x159,3)
Reduced heat output (80-60°C) / (50-30°C)	kW	21,1 / 23,6	21,1 / 23,6	25,9 / 28,5	21,1 / 23,6	25,9 / 28,5	21,1 / 23,6	25,9 / 28,5	25,9 / 28,5
Nominal heat input	kW	370,0 (4x92,5)	432,0 (4x108,0)	450 (3x150)	540,0 (5x108,0)	600 (4x150)	648,0 (6x108,0)	750 (5x150)	900 (6x150)
Reduced heat input	kW	21,6	21,6	27,0	21,6	27,0	21,6	27,0	27,0
Minimum useful yield (80-60°C)	%	97,7	97,7	96,0	97,7	97,7	97,7	96,0	96,0
Maximum useful yield (80-60°C)	%	97,8	98,4	98,3	98,4	98,4	98,4	98,3	98,3
Minimum useful yield (50-30°C)	%	109,1	109,1	105,6	109,1	109,1	109,1	105,6	105,6
Maximum useful yield (50-30°C)	%	106,1	106,1	106,2	106,1	106,1	106,1	106,2	106,2
Useful thermic output at 30% of load	%	108,1	108,1	108,50	108,1	108,50	108,1	108,50	108,50
Adsorbed power consumption	W	980 (4x245)	1032 (4x258)	984 (3x328)	1290 (5x258)	1.312 (4x328)	1548 (6x258)	1.640 (5x328)	1.968 (6x328)
Heating energy efficiency class		-	-	-	-	-	-	-	-
Sound power of the heating system	dB(A)	-	-	-	-	-	-	-	-
NOx Class		6	6	6	6	6	6	6	6
Generators	**n°**	**4x92,5**	**4x110**	**3x150**	**5x110**	**4x150**	**6x110**	**5x150**	**6x150**
Modules water content		72,6	72,6	132	92,2	168	117,6	205	241
Max/min flue gas temp. 80-60°C	°C	72,1 / 58,4	86,2 / 74,6	84,7 / 63,6	86,2 / 74,6	84,7 / 63,6	86,2 / 74,6	84,7 / 63,6	84,7 / 63,6
Max/min flue gas temp. 50-30°C	°C	51,3 / 35,1	61,6 / 49,2	56,8 / 37	61,6 / 49,2	56,8 / 37	61,6 / 49,2	56,8 / 37	56,8 / 37
Max. press. of flue collector release	Pa	375	375	270	375	250	375	250	230
Maximum operating pressure	bar	5	5	5	5	5	5	5	5
Weight	kg	572	596	692	734	888	836	1.085	1.281

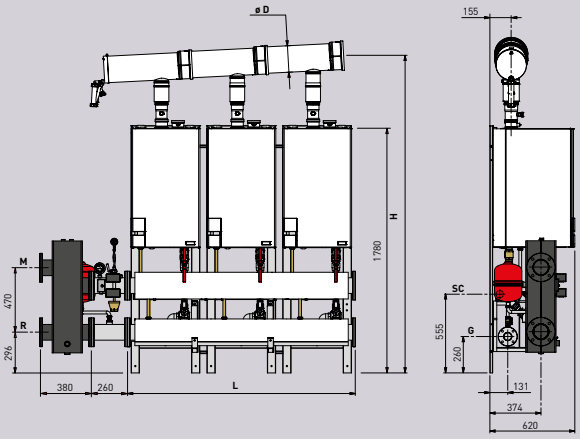
Murelle Equipe 70 ErP



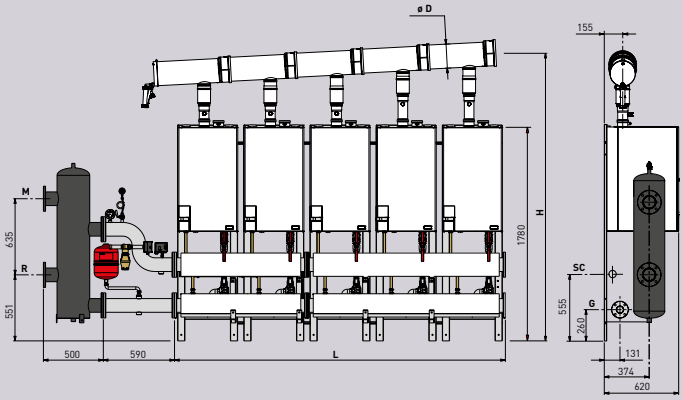
Murelle Equipe 100 - 140 - 150 ErP



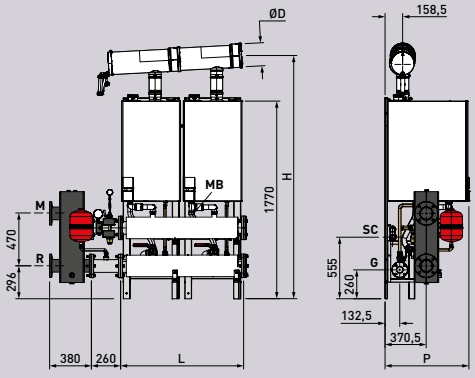
Murelle Equipe 220 - 280 - 330 ErP



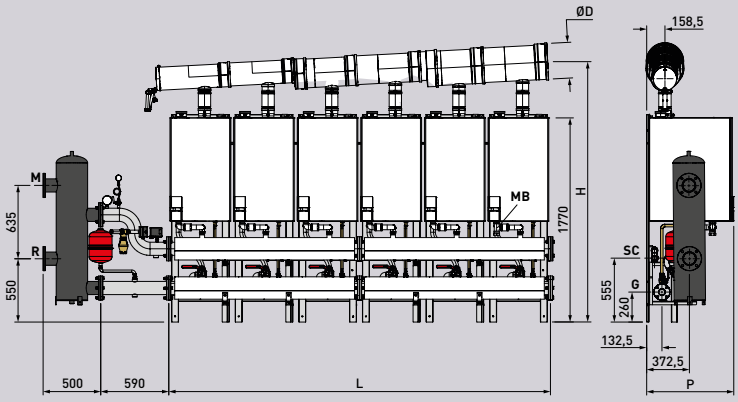
Murelle Equipe 370 - 440 - 550 - 660 ErP



Murelle Equipe 300 ErP



Murelle Equipe 450 - 600 - 750 - 900 ErP



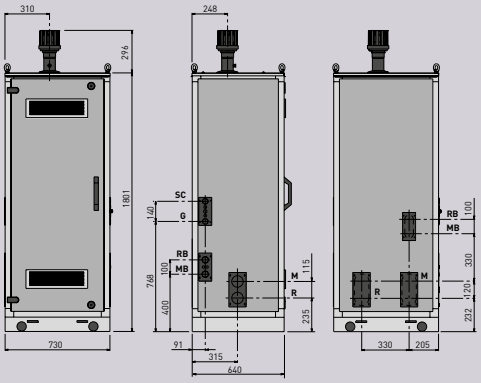
LEGEND		70	100	140	150	220	280	300	330	370	440	450	550	600	660	750	900
R	C.H. return	1 1/2"	2"	2"	2"	Flange PN6 - DN 100											
M	C.H. flow	1 1/2"	2"	2"	2"	Flange PN6 - DN 100											
G	Gas supply	1 1/4"	Flange PN6 - DN 50														
SC	Condensate outlet	ø 40	ø 40	ø 40	ø 40	ø 40	ø 40	ø 40	ø 40	ø 40	ø 40	ø 40	ø 40	ø 40	ø 40	ø 40	ø 40
L	(mm)	-	1.104	1.104	1.656	1.104	1.656	1.125	1.656	2.208	2.208	1.677	2.760	2.229	3.314	2.781	3.333
H	(mm)	-	1.984	1.984	2.013	2.292	2.326	2.188	2.326	2.360	2.360	2.246	2.394	2.280	2.428	2.340	2.370
P	(mm)	-	225	175	225	-	-	750	-	-	-	750	-	750	-	750	750
D	(mm)	-	-	-	-	200	200	200	200	200	200	250	200	250	250	300	300

MURELLE EQUIPE BOX ErP

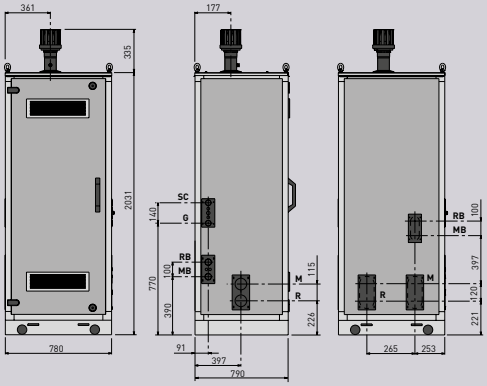
Murelle Equipe Box ErP		**50**	**70**	**100**	**140**	**150**	**110**	**220**
Nominal heat output (80-60°C)	kW	46,7	63,2	93,4	126,5	140,1	105,4	212,4
Nominal heat output (50-30°C)	kW	51,0	68,1	102,0	136,2	153,0	112,6	225,2
Reduced heat output (80-60°C)	kW	9,2	13,4	9,2	13,4	9,2	20,8	20,8
Reduced heat output (50-30°C)	kW	10,5	15,0	10,5	15,0	10,5	23,6	23,6
Nominal heat input	kW	48,0	65,0	96,0	130,0	144,0	108,0	216,0
Reduced heat input	kW	9,6	14,0	9,6	14,0	9,6	21,6	21,6
Minimum useful yield (80-60°C)	%	96,1	95,7	96,1	95,7	96,1	96,4	96,4
Maximum useful yield (80-60°C)	%	97,3	97,3	97,3	97,3	97,3	97,6	98,3
Minimum useful yield (50-30°C)	%	109,0	107,4	109,0	107,4	109,0	107,4	107,4
Maximum useful yield (50-30°C)	%	106,2	104,8	106,2	104,8	106,2	104,2	104,2
Useful thermic output at 30% of load	%	108,6	108,1	108,5	108,1	108,5	105,4	105,4
Adsorbed power consumption	W	141	186	282 (2x141)	372 (2x186)	423 (3x141)	258	516 (2x258)
Heating energy efficiency class		A A+++ to D	A A+++ to D	–	–	–	–	–
Sound power of the heating system	dB(A)	52	65	–	–	–	–	–
NOx Class (EN 15502-1:2015)		6	6	6	6	6	6	6
Generators	**n°**	**1x50**	**1x70**	**2x50**	**2x70**	**3x50**	**1x110**	**2x110**
Max pressure of flue collector release	Pa	100	100	100	100	100	375	375
Max. pressure of independent flue outlet	Pa	100	100	100	100	100	428	428
Maximum operating pressure	bar	3,5	3,5	3,5	3,5	3,5	5	5
Weight	kg	148	155	233	247	381	235	380

Murelle Equipe Box ErP		**280**	**330**	**370**	**440**	**550**	**660**
Nominal heat output (80-60°C)	kW	270,8	318,6	361,1	424,8	531,0	637,2
Nominal heat output (50-30°C)	kW	289,2	337,8	385,6	454,0	563,0	675,6
Reduced heat output (80-60°C)	kW	20,8	20,8	20,8	20,8	20,8	20,8
Reduced heat output (50-30°C)	kW	23,6	23,6	23,6	23,6	23,6	23,2
Nominal heat input	kW	277,5	326,0	330,0	432,0	540,0	648,0
Reduced heat input	kW	21,6	21,6	21,6	21,6	21,6	21,6
Minimum useful yield (80-60°C)	%	96,4	96,4	96,4	96,4	96,4	96,4
Maximum useful yield (80-60°C)	%	97,6	98,3	97,6	98,3	98,3	98,3
Minimum useful yield (50-30°C)	%	107,4	107,4	107,4	107,4	107,4	107,4
Maximum useful yield (50-30°C)	%	104,2	104,2	104,2	104,2	104,2	104,2
Useful thermic output at 30% of load	%	105,4	105,4	105,4	105,4	105,4	105,4
Adsorbed power consumption	W	738 (3x246)	774 (3x258)	984 (4x246)	1.032 (4x258)	1.290 (5x258)	1.548 (6x258)
Heating energy efficiency class		–	–	–	–	–	–
Sound power of the heating system	dB(A)	–	–	–	–	–	–
NOx Class (EN 15502-1:2015)		6	6	6	6	6	6
Generators	**n°**	**3x92,5**	**3x110**	**4x92,5**	**4x110**	**5x110**	**6x110**
Max pressure of flue collector release	Pa	375	375	375	375	375	375
Max. pressure of independent flue outlet	Pa	428	428	428	428	428	428
Maximum operating pressure	bar	5	5	5	5	5	5
Weight	kg	615	615	760	760	995	1.140

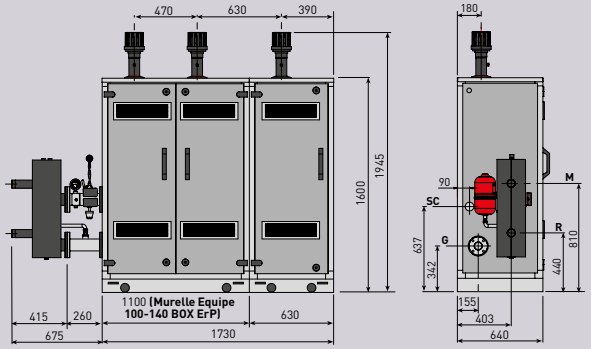
Murelle Box 50 - 70 ErP



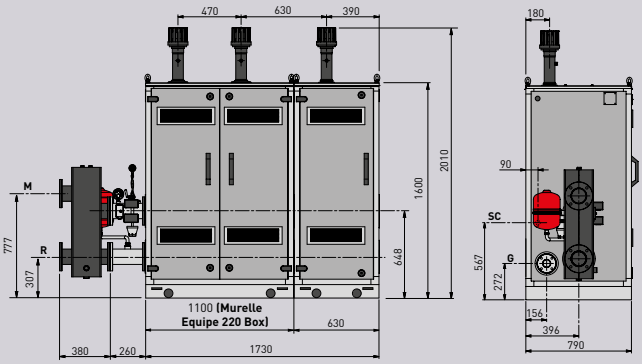
Murelle Box 110 ErP



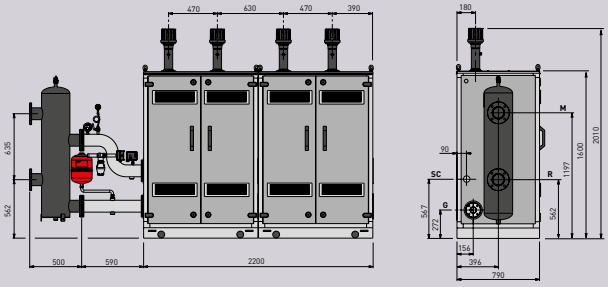
Murelle Equipe 100 - 140 - 150 Box ErP



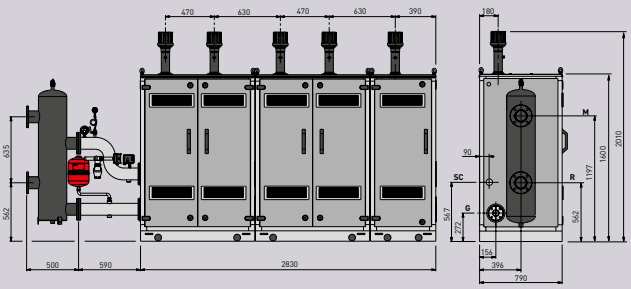
Murelle Equipe 220 - 280 - 330 Box ErP



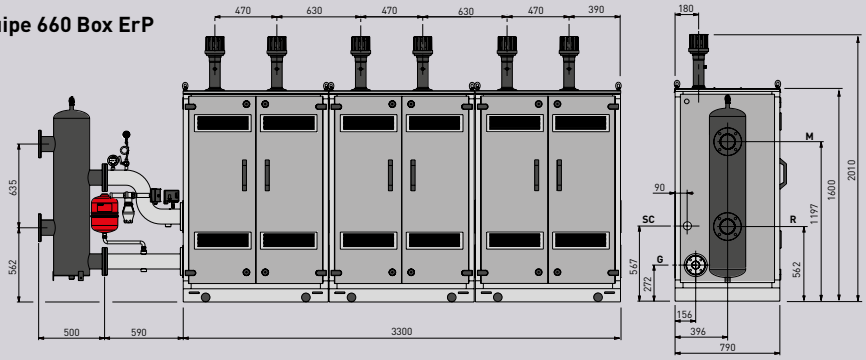
Murelle Equipe 370 - 440 Box ErP



Murelle Equipe 550 Box ErP



Murelle Equipe 660 Box ErP



LEGEND		50	70	100	110	140	150	220	280	330	370	440	550	660
R	Central heating return	2"	2"	2"	2"	2"	2"	Flange PN6 - DN 100			Flange PN6 - DN 100			
M	Central heating flow	2"	2"	2"	2"	2"	2"	Flange PN6 - DN 100			Flange PN6 - DN 100			
G	Gas supply	Flange PN6 - DN 50			3/4"	Flange PN6 - DN 50		Flange PN6 - DN 50			Flange PN6 - DN 50			
SC	Condensate outlet	ø 40	ø 40	ø 40	ø 25	ø 40	ø 40	ø 40	ø 40	ø 40	ø 40	ø 40	ø 40	ø 40
MB	Boiler flow	-	-	-	1"	-	-	-	-	-	-	-	-	-
RB	Boiler return	-	-	-	1 1/2"	-	-	-	-	-	-	-	-	-

3955200A - 04.2026

Fonderie Sime. S.p.A has obtained voluntary certifications ISO 9001, 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.

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