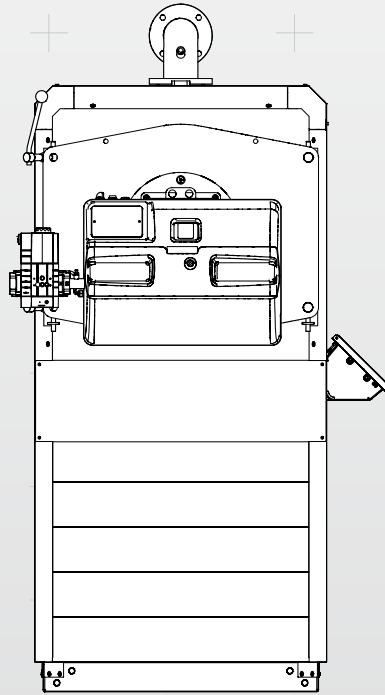




EN

Low NOx steel condensing boilers

MONOLITE 120-850 GT



INSTALLATION, USE AND MAINTENANCE MANUAL



MONOLITE 120-850 GT_EN Ed. 03 - 04/2019

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SYMBOLS USED IN THE MANUAL



DANGER

To indicate actions that, if not performed correctly, can result in injury of generic origin or may generate malfunction or damage to the appliance; therefore require particular caution and adequate preparation.



IT IS FORBIDDEN

To indicate operations that SHOULD NOT be performed.



IMPORTANT

To indicate particularly useful information and important.

The illustrations and data presented are not binding. The company reserves the right to make without prior notice any changes it deems appropriate for continuous improvement and constant updating.

1 General information

INTRODUCTION

Dear Customer,

Thank you for having chosen an appliance of the series **MONOLITE GT**, a high quality and efficiency product, reliable and safe. We recommend entrusting its maintenance to **Professionally Qualified Personnel** who, when necessary, uses original spare parts. This manual contains important information and suggestions that must be observed for easier installation and best possible use of the appliance.



IMPORTANT

Failure to observe the instructions in this manual will void the warranty conditions.

RANGE

BOILER		BOILER	BOILER		BOILER
MODEL	CODE	CODE	MODEL	CODE	CODE
MONOLITE 120 GT	81037120	17010208	MONOLITE 420 GT	81037420	17010207
MONOLITE 140 GT	81037140	17010208	MONOLITE 555 GT	81037555	17010193
MONOLITE 180 GT	81037180	17010205	MONOLITE 700 GT	81037700	17010193
MONOLITE 250 GT	81037250	17010205	MONOLITE 780 GT	81037780	17010194
MONOLITE 320 GT	81037320	17010206	MONOLITE 850 GT	81037850	17010194

COMPLIANCE

MONOLITE GT boilers comply with the following European Directives:

- European Regulation on Gas Equipment GAR 2016/426/EU
- Low Voltage Directive 2014/35/EU
- Electromagnetic Compatibility Directive 2014/30/EU
- Efficiency Directive 92/42/EEC.

Models up to 400kW comply with the Ecodesign of Energy-using Products Directive 2009/125/EC and with the delegated Regulation (EU) no. 813/2013.



WARNINGS



IMPORTANT

- The appliance must be used for the purposes for which it has been expressly designed and any manufacturer's liability shall be excluded in case of damage to persons, animals or property due to insufficient maintenance or improper use.
- This manual is an integral part of the Boiler and must be carefully read before installation and commissioning of the appliance. Moreover, it must be carefully stored for subsequent consultations and must ALWAYS accompany the Boiler during its entire life-cycle (from Installation to disposal). In case of damage or loss, request a copy from **ICI CALDAIE S.p.A.** Technical Assistance Service.
- The appliance is delivered in several separated packages. Upon receipt, check that the supply is intact and undamaged and promptly contact the **ICI CALDAIE S.p.A.** if it does not correspond to the order.
- The installation of **MONOLITE GT** boilers must be performed by a Certified Company which, at the end of the operation, must provide the owner with the declaration of conformity certifying that the installation has been correctly carried out, namely in compliance with the Standards and the national and local Laws in force, and with the indications included in the instruction manuals supplied by **ICI CALDAIE S.p.A.**
- The maintenance of the appliance is a legislative obligation. The User must have it carried out by an Authorised Company or by qualified personnel (maintenance technician) in compliance with the requirements of the local Standards in force.
- Ordinary and extraordinary maintenance must be carried out by qualified personnel in order to promptly detect any damage to the boiler body under pressure and to the safety and control accessories.

PROHIBITIONS



IT IS FORBIDDEN

- Operate electrical devices or appliances such as switches, household appliances, etc. if you smell fuel or unburnt materials. In this case:
 - ventilate the room by opening doors and windows
 - close the fuel shut-off device
 - ask the Technical Assistance Service or qualified personnel to intervene as soon as possible.
- Any technical or cleaning operation carried out before disconnecting the appliance from the power supply mains, by positioning the system main switch and the control panel main switch to "OFF".
- Modifying safety or adjustment devices without the Boiler manufacturer's authorisation and indications.
- Plug or dimensionally reduce the ventilation openings of the installation room. The ventilation openings are essential for proper combustion.
- Exposing the Boiler to atmospheric agents. It is not designed to operate outdoor and it does not feature automatic anti-freeze systems.
- Leave flammable substances and containers in the room where the appliance is installed.
- Disperse the packaging material in the environment and leave it within the reach of children as it may be a potential source of danger. It must be disposed of in accordance with the legislation in force.

HAZARDS



DANGER

- In case of water leakages, disconnect the Boiler from the power supply mains, close the water supply and contact, as soon as possible, the Technical Assistance Service Authorised by **ICI CALDAIE S.p.A.** or qualified personnel.
- Sensing the presence of fuel in the thermal power plant, it is appropriate to follow the precautions below to avoid the risk of explosions and fires:
 - *do not smoke or cause sparks*
 - *do not turn on lights or electrical devices in general (mobile phones)*
 - *open doors and windows*
 - *close the fuel shut-off valve normally placed outside the thermal power plant*
 - *disconnect the power supply by means of the switch which is usually located outside of the plant room.*
- During the normal operation, the appliance has hot parts, such as the channel and the flue gas box, which in case of accidental contact without appropriate personal protection can cause severe burns.
- An incorrect adjustment of the closing door or an insufficient chimney draught can cause the presence of smoke inside the heating plant room, leading to fatal intoxications due to carbon monoxide, which is by nature colourless and odourless. Therefore, make sure that the Boiler is correctly adjusted and installed and that the heating plant room features vents compliant with the standards in force.

IDENTIFICATION

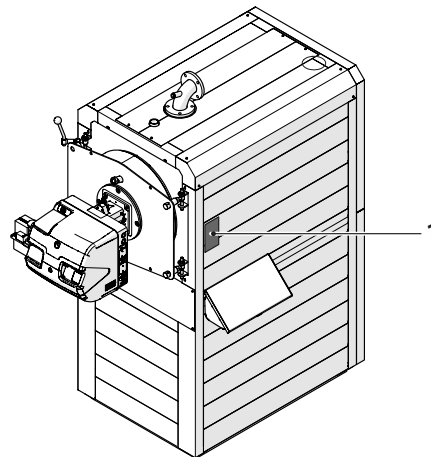
Each **MONOLITE GT** Boiler can be identified by means of the technical data plate inside the envelope of the documents supplied with the Boiler, which includes technical/efficiency informations such as:

- serial number or identification marking
- nominal thermal power in kW
- nominal thermal flow in kW
- types of fuels which can be used
- maximum operating pressure.
- CE marking



IMPORTANT

The installer of the Boiler **MUST** apply the technical data plate (1) **mandatorily**, once the installation is complete, **in a position which is visible and legible with the appliance installed**. In case of deterioration or loss, request a duplicate from **ICI CALDAIE S.p.A.** Technical Assistance Service providing the Boiler serial number.



The appliance is also accompanied by **construction certificate** attesting the successful result of the hydraulic test.



IMPORTANT

The installation must be performed in compliance with the local standards by **qualified personnel**, namely by personnel with specific technical skills in the field of the heating system components. An incorrect installation may cause damage to persons or property for which the manufacturer will not be liable.

During **commissioning** check the effectiveness of all adjustment and control devices in the control panel. The **warranty** validity is subject to compliance with the instructions in this manual.

APPLIANCE DESCRIPTION

The **MONOLITE GT** appliances by **ICI Caldaie S.p.A.** are condensing Boilers, made from AISI 316 Ti stainless steel with fire-tube furnace and vertical exchange surfaces, designed to produce hot water at a maximum temperature of 110°C and also domestic hot water if combined with a storage heater.

They are equipped with two-stage progressive or premixed modulating gas burner, with cylindrical combustion head and radiation with low emissions of NOx. The Nominal Efficiency of the **MONOLITE GT** reaches 108% (REF. NCV) e ★★★★★ (in compliance with Directive 92/42/EEC).

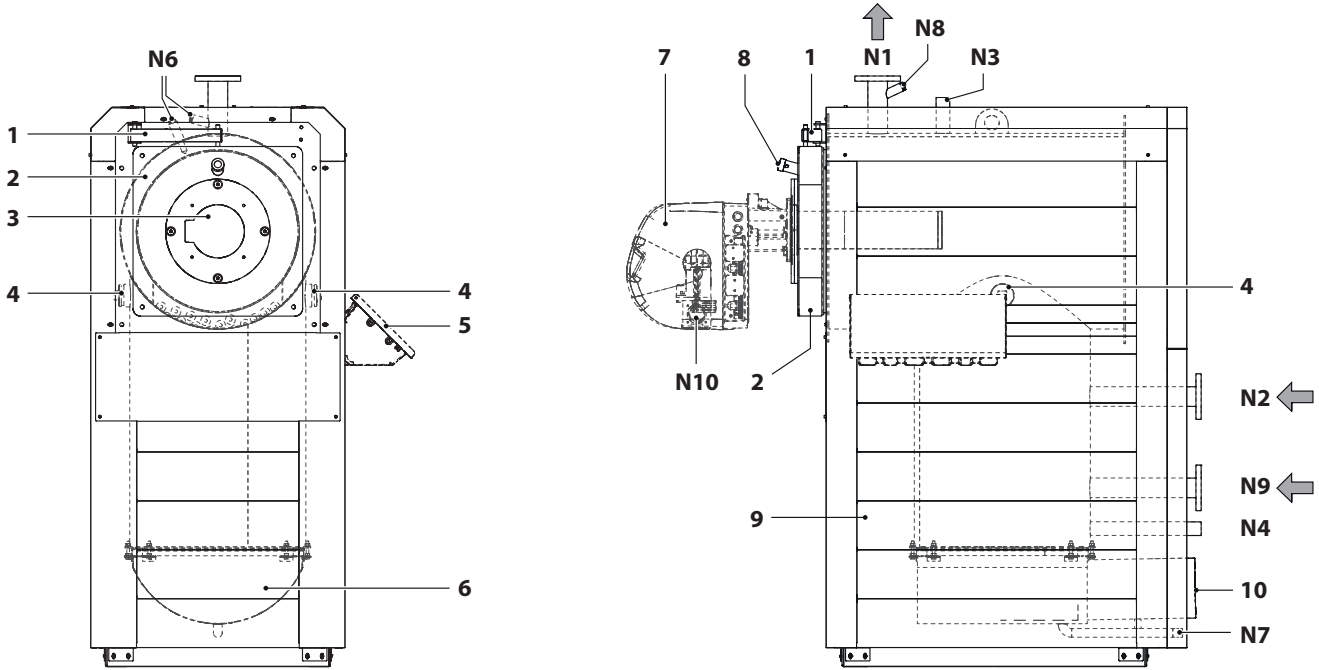
The control panel suitable for the Boiler can be indifferently installed either on the right side or on the left side of the appliance.

Some of the main characteristics of the Boiler are listed below:

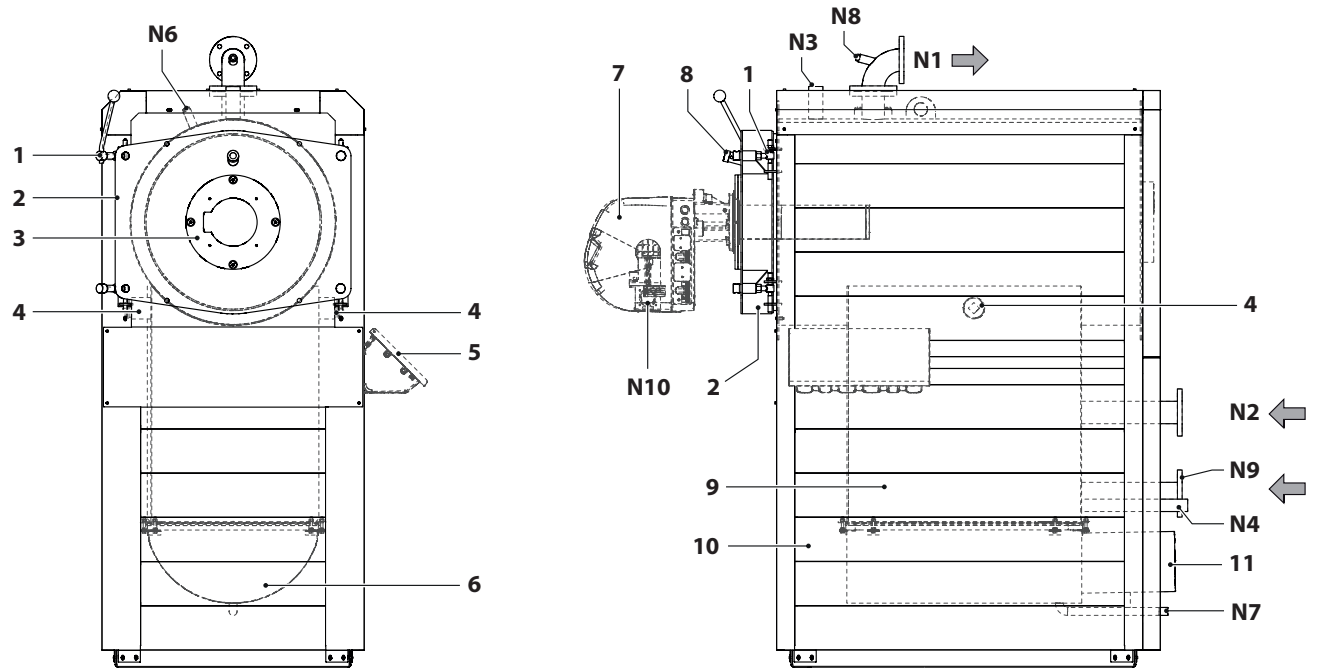
- **chassis** made of steel vertical profile structure, complete with base
- **large-size cylindrical furnace** made of TIG welded AISI 316 Ti stainless steel, able to withstand condensate attacks
- **vertical primary heat exchanger** made of TIG welded anti-acid AISI 316 Ti stainless steel, engaged perpendicularly to the furnace, made with stainless steel plates printed with particular conic embossed sections, to increase the exchange surface and facilitate the formation of condensate drops, allowing an appropriate drip drainage. Moreover, the vertical position of the exchange surfaces facilitates condensate discharge, ensuring an effective self-cleaning function of plates
- **welding performed with TIG procedure**, a method which does not require any material to be added, and thus ensures that the main mechanical characteristics of stainless steel are preserved, as well as its capability to resist acid condensate corrosion
- **flow flange fitting and two system return fittings**, to distinguish the Boiler inlet and ensure the minimum possible temperature at the lowest point, thus getting the most out of condensate benefits, even in the presence of medium-high temperature return
- **smokebox** which can collect the produced condensate, which is then drained through a trap to be connected to the neutraliser (where provided) and thus to the domestic hot water drain line
- **very high water content** and low thermal load
- **"hot" surfaces insulated** with extra-thick glass wool mats, protected by painted steel panels which are easy to disassemble
- **front door with reversible opening**, made of steel sheet, thermally insulated with ceramic fibre
- radiant **premixed modulating burner**, which can provide any power output between the min and the max, according to the instant load request; it allows maximum acoustic comfort and low polluting emissions.

STRUCTURE

120 - 140 - 180 models



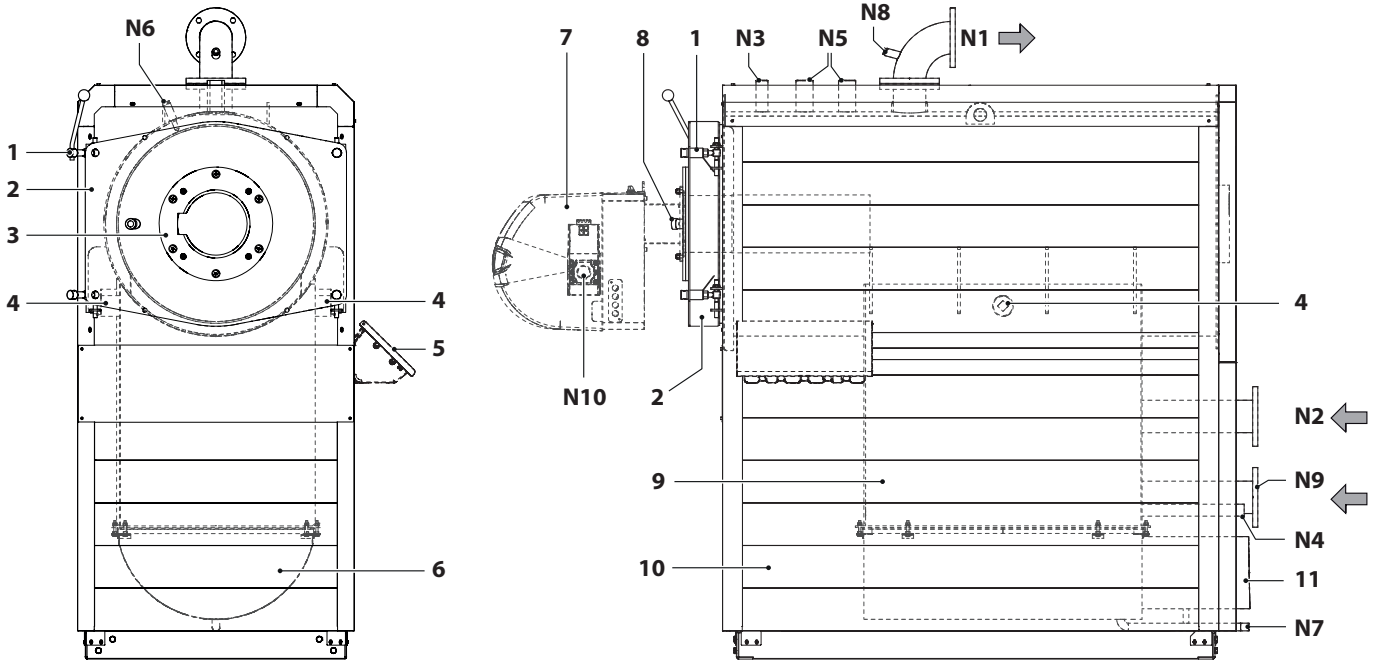
250 - 320 - 420 models



- 1 Door hinges
- 2 Front door
- 3 Burner support flange
- 4 Inspection plugs
- 5 Control panel (accessory)
- 6 Smokebox
- 7 Burner
- 8 Flame inspection window
- 9 Primary heat exchanger
- 10 Insulating casing
- 11 Flue gas drain fitting

- N1 Boiler flow fitting
- N2 Boiler return fitting at medium temperature
- N3 Instruments fitting
- N4 System intake/drain fitting
- N5 Safety valve(s) fitting
- N6 Bulb-holder pockets
- N7 Condensate drain fitting
- N8 Control pocket
- N9 Boiler return fitting at low temperature
- N10 Gas fitting

555 - 700 - 780 - 850 models

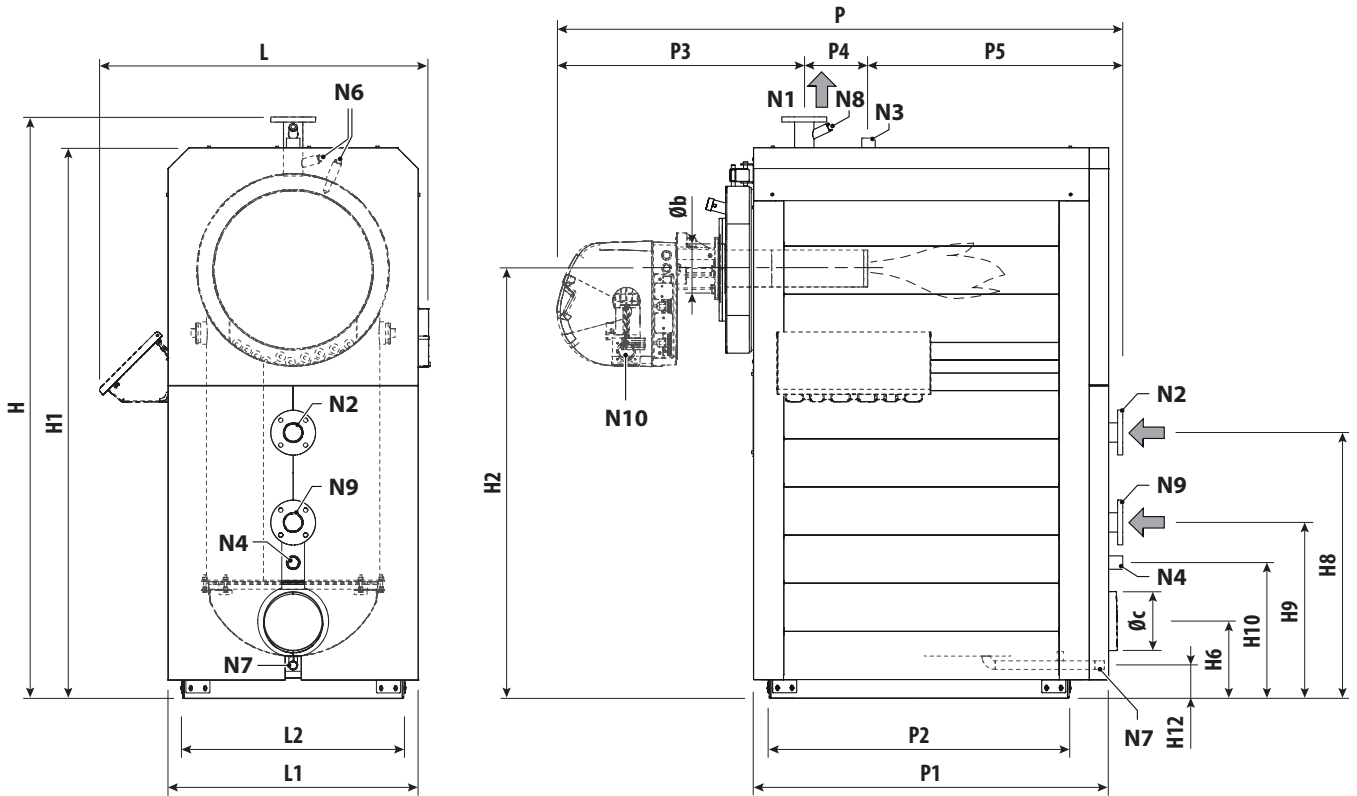


- 1 Door hinges
- 2 Front door
- 3 Burner support flange
- 4 Inspection plugs
- 5 Control panel (accessory)
- 6 Smokebox
- 7 Burner
- 8 Flame inspection window
- 9 Primary heat exchanger
- 10 Insulating casing
- 11 Flue gas drain fitting

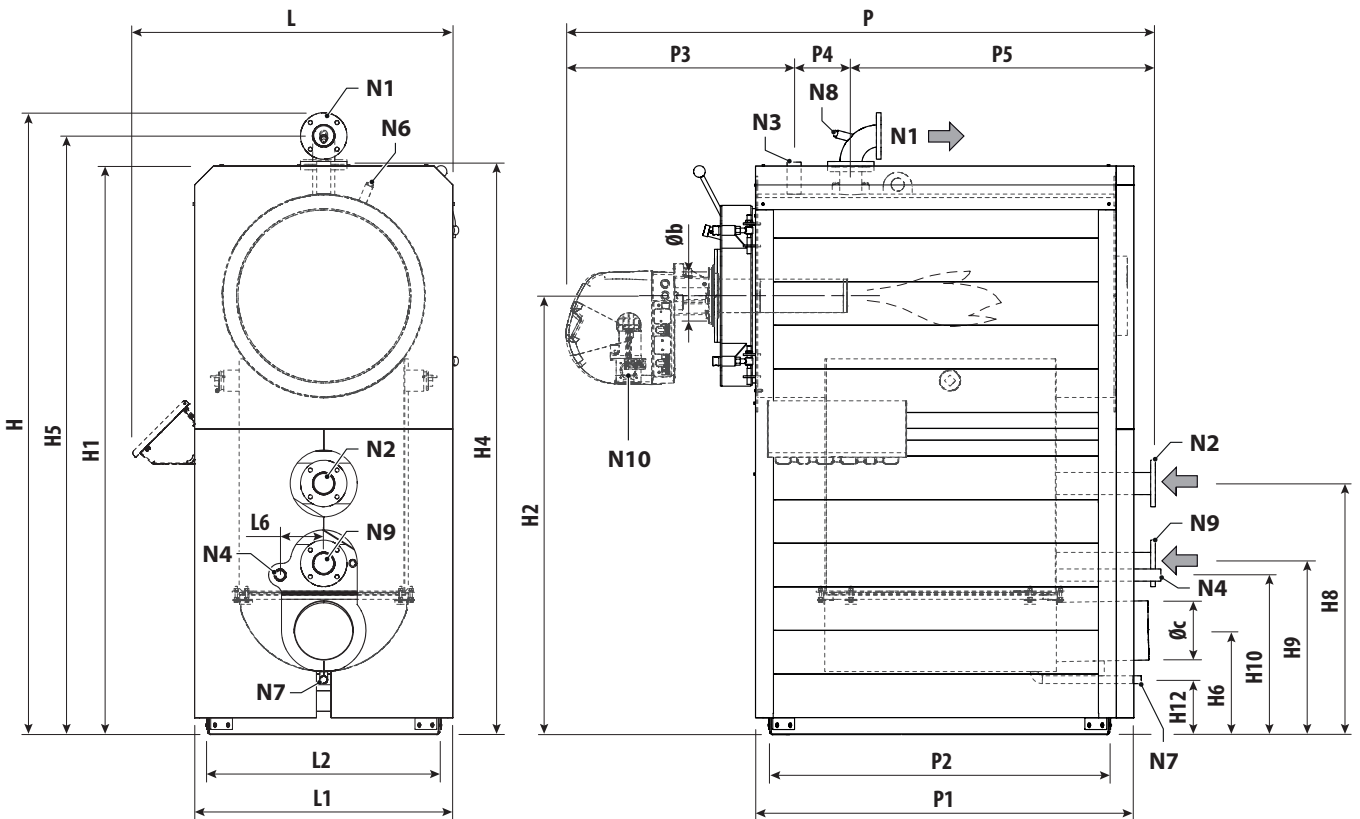
- N1 Boiler flow fitting
- N2 Boiler return fitting at medium temperature
- N3 Instruments fitting
- N4 System intake/drain fitting
- N5 Safety valve(s) fitting
- N6 Bulb-holder pockets
- N7 Condensate drain fitting
- N8 Control pocket
- N9 Boiler return fitting at low temperature
- N10 Gas fitting

DIMENSIONS AND CONNECTIONS

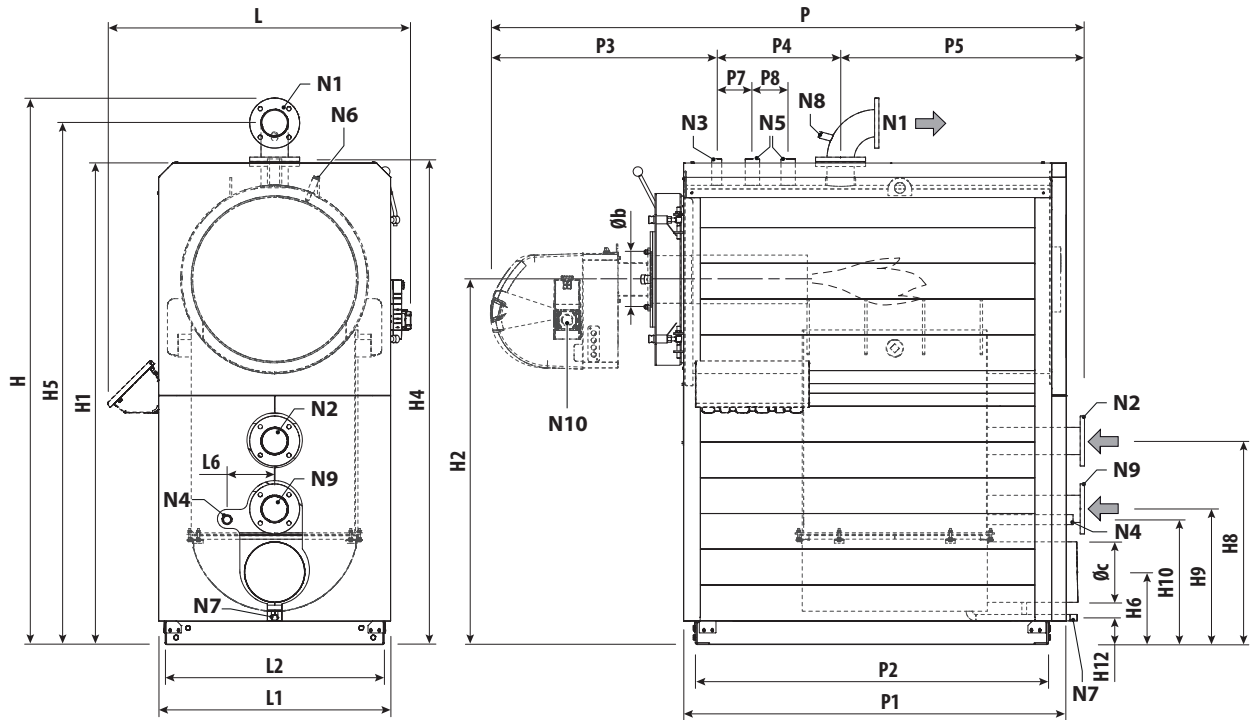
120 - 140 - 180 models



250 - 320 - 420 models



555 - 700 - 780 - 850 models



Dimensions

Description	u.m.	MONOLITE GT									
		120	140	180	250	320	420	555	700	780	850
H	mm	1811	1811	1811	2140	2140	2185	2294	2294	2294	2294
H1	mm	1715	1715	1715	1956	1956	1956	2021	2021	2021	2021
H2	mm	1335	1335	1335	1510	1510	1510	1532	1532	1532	1532
H4	mm	-	-	-	1953	1953	1955	2025	2025	2025	2025
H5	mm	-	-	-	2060	2060	2090	2189	2189	2189	2189
H6	mm	241	241	241	358	358	358	310	308	308	308
H8	mm	828	828	828	864	864	864	854	854	854	854
H9	mm	548	548	548	589	589	589	570	570	570	570
H10	mm	423	423	423	549	549	549	525	525	525	525
H12	mm	103	103	103	189	189	189	112	112	112	112
L	mm	994	994	994	1104	1104	1104	1188	1188	1188	1188
L1	mm	780	780	780	890	890	890	974	974	974	974
L2	mm	690	690	690	800	800	800	920	920	920	920
L6	mm	-	-	-	150	150	150	200	200	200	200
P	mm	1270	1587	1760	1765	2005	2300	2452	2452	2695	2695
P1	mm	851	1106	1106	1041	1281	1536	1560	1560	1810	1810
P2	mm	679	934	934	909	1149	1404	1436	1436	1686	1686
P3	mm	525	595	768	783	783	823	955	955	948	948
P4	mm	350	200	200	195	195	195	520	520	520	520
P5	mm	395	792	792	787	1027	1282	977	977	1227	1227
P7	mm	-	-	-	-	-	-	150	150	150	150
P8	mm	-	-	-	-	-	-	150	150	150	150
Øb	mm	150	150	187	205	205	205	225	270	270	270
Øc	mm	180	180	180	200	200	200	250	250	250	250

Attachments

Description	u.m.	MONOLITE GT									
		120	140	180	250	320	420	555	700	780	850
N1	DN/in	50	50	50	65	65	80	100	100	100	100
N2	DN/in	50	50	50	65	65	80	100	100	100	100
N1/N2	PN	6	6	6	6	6	6	6	6	6	6
N3	DN/in	1"	1"	1"	1"	1"	1/4"	1"	1"	1"	1"
N4	DN/in	1"	1"	1"	1"	1"	1"	1"	1"	1"	1"
N5	DN/in	-	-	-	-	-	-	1/2"	1/2"	1/2"	1/2"
N6	DN/in	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
N7	DN/in	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
N8	DN/in	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
N9	DN/in	50	50	50	65	65	80	100	100	100	100
N10	DN/in	3/4"	3/4"	1"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"

TECHNICAL DATA

DESCRIPTION	u.m.	MONOLITE GT										
		120	140	180	250	320	420	555	700	780	850	
Type of appliance		B23										
Fuel		G20										
		G30 - G31					-	-	-	-	-	-
Effective rated ^[1]	kW	109,6	127,9	164,5	228,4	292,4	383,8	507,1	639,6	712,7	776,7	
	kcal/h	94290	110010	141450	196450	251460	330030	436120	550060	612930	667940	
Nominal power ^[2]	kW	120	140	180	250	320	420	555	700	780	850	
	kcal/h	103200	120400	154800	215000	275200	361200	477300	602000	670800	731000	
Max. thermal flow rate	kW	111,3	129,9	167	231,9	296,8	389,6	514,8	649,3	723,6	788,5	
	kcal/h	95730	111690	143600	199440	255290	335060	442760	558440	622260	678110	
Min. thermal flow rate	kW	22,26	25,98	33,4	46,38	59,36	77,92	102,96	129,86	144,72	157,7	
	kcal/h	19144	22343	28724	39887	51050	67011	88546	111680	124459	135622	
Efficiency at 100% (ref. P.C.I.) ^[1]	%	98,5	98,5	98,5	98,5	98,5	98,5	98,5	98,5	98,5	98,5	
100% efficiency (ref. NCV) ^[2]	%	107,8	107,8	107,8	107,8	107,8	107,8	107,8	107,8	107,8	107,8	
30% efficiency (ref. NCV) ^[1]	%	98,5	98,5	98,5	98,5	98,5	98,5	98,5	98,5	98,5	98,5	
30% efficiency (ref. NCV) ^[2]	%	109	109	109	109	109	109	109	109	109	109	
Efficiency of 100% (stars) ^[3]	%	****	****	****	****	****	-	-	-	-	-	
Efficiency of 30% (stars) ^[3]	%	****	****	****	****	****	-	-	-	-	-	
Max gas flow rate - G20	Stm ³ /h	11,78	13,74	17,67	24,54	31,41	41,23	54,48	68,71	76,57	83,44	
Min gas flow rate - G20	Stm ³ /h	2,36	2,75	3,53	4,91	6,28	8,25	10,9	13,74	15,31	16,69	
Max gas flow rate - G30	kg/h	8,74	10,2	13,11	18,21	23,31	30,6	40,43	51	56,83	61,93	
Min gas flow rate - G30	kg/h	1,75	2,04	2,62	3,64	4,66	6,12	8,09	10,2	11,37	12,39	
Max gas flow rate - G31	kg/h	8,65	10,09	12,97	18,02	23,06	30,27	40	50,45	56,21	61,26	
Min gas flow rate - G31	kg/h	1,73	2,02	2,59	3,6	4,61	6,05	8	10,09	11,24	12,25	
Max air flow rate	kg/h	180,83	210,97	271,25	376,73	482,22	632,90	836,34	1054,85	1175,40	1280,90	
Max flue gas flow rate	kg/h	175,52	204,73	263,28	365,65	468,01	614,33	811,75	1023,78	1140,89	1243,26	
Min flue gas flow rate	kg/h	35,10	40,96	52,66	73,13	93,59	122,86	162,34	204,75	228,18	248,65	
Max. fluid flow rate	kg/h	10320	12040	15480	21500	27520	36120	47730	60200	67080	73100	
Min fluid flow rate	kg/h	4128	4816	6192	8600	11008	14448	19092	24080	26832	29240	
Pressure drops on exhaust side	mbar	1,4	1,4	1,4	2,3	2,9	3,2	3,6	3,9	3,4	4	
Chimney residual head	mbar	0,2	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	
Noise level	dB(A)	62,5	62,5	63	65	66	68	68	68	68	68	
CO emissions	mg/kWh	0	0	0	0	0	0	0	0	0	0	
NOx emissions	mg/kWh	50	50	50	50	50	50	50	50	50	50	
NOx class ^[4]		6	6	6	6	6	6	6	6	6	6	
Max chimney loss ^[2]	%	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	
Casing loss ^[2]	%	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	
Loss with burner Off ^[2]	%	0,1	0,1	0,1	0,1	0,1	0,1	0,1	0,1	0,1	0,1	
Fume temperature (Rated input - air=20°C) - G20 ^[2]	°C	50	50	50	50	50	50	50	50	50	50	
CO ₂ - G20	%	9,0	9,0	9,0	9,0	9,0	9,0	9,0	9,0	9,0	9,0	
CO ₂ - G30	%											
CO ₂ - G31	%											
Condense production	kg/h	13,96	16,28	20,94	29,08	37,22	48,86	64,56	81,42	90,74	98,88	
Fluid pressure drop (ΔT=12K)	mbar	18,9	25,7	42,6	28,7	47,1	35,4	25,3	40,2	50,0	59,3	
Rated pressure	bar	5	5	5	5	5	5	5	5	5	5	
Total capacity	l	150,0	204,3	204,3	288,0	288,0	347,0	469,0	440,0	506,0	506,0	
Total weight	Kg	340	430	430	655	711	847	1201	1237	1381	1381	
Power supply	V ~ Hz	230 ~ 50	230 ~ 50	230 ~ 50	230 ~ 50	230 ~ 50	230 ~ 50	230 ~ 50	230 ~ 50	230 ~ 50	230 ~ 50	
Electric protection rating	IP	40	40	40	40	40	40	40	40	40	40	
Maximum absorbed power	W	240	240	360	360	360	750	1150	1150	1150	1150	

^[1] Average temperature 70°C.

^[2] Flow/ret. temperature 50/30°C.

^[3] Efficiency Directive 92/42/EEC

^[4] Ref. Standard UNI/EN 15502-1; 2015.

G20 (PCI - Hi). 9.45 kW/m³ (15°C, 1013 mbar)

G30 (PCI - Hi). 12.68 kW/kg (15°C, 1013 mbar)

G31 (PCI - Hi). 12.87 kW/kg (15°C, 1013 mbar)

TECHNICAL DATA ACCORDING TO ERP DIRECTIVE

DESCRIPTION	u.m.	MONOLITE GT					
		120	140	180	250	320	
Nominal power	NominalP	kW	109,60	127,90	164,50	228,40	292,40
Seasonal energy efficiency of room heating	η_s	%	92,23	92,30	92,16	92,32	92,40
Seasonal efficiency class for heating			A	A	A	A	A
FOR ROOM HEATING BOILERS AND MIXED BOILERS: NOMINAL THERMAL POWER							
Useful thermal power at high temperature operation (tr 60 °C / tm 80 °C)	P4	kW	109,60	127,90	164,50	228,40	292,40
Efficiency at nominal thermal power at high temperature operation (tr 60 °C / tm 80 °C)	η_4	%	88,74	88,74	88,74	88,74	88,74
Nominal power at 30% of nominal thermal power at low temperature operation (tr 30 °C)	P1	kW	35,99	42,01	54,01	75,00	95,99
Efficiency at 30% of nominal thermal power at low temperature operation (tr 30 °C)	η_1	%	97,12	97,12	97,12	97,12	97,12
Boiler with power range adjustment: yes / no			no	no	no	no	no
POWER AUXILIARY CONSUMPTION							
At full load	elmax	kW	0,2	0,2	0,4	0,4	0,4
At partial load	elmin	kW	0,0	0,0	0,1	0,1	0,1
In stand-by mode	PSB	kW	0,02	0,02	0,02	0,02	0,02
OTHER ELEMENTS							
Thermal loss in stand-by mode	Pstb	kW	0,3	0,4	0,5	0,7	0,9
nitrogen oxide emissions ref. NCV (GCV)	NOx	Mg/kWh	50,0	50,0	50,0	50,0	50,0
Yearly power consumption	QHE	GJ	200,0	200,0	400,0	400,0	400,0
SOUND DATA							
Sound power level	Lwa	dB(A)	84,0	84,0	84,7	84,7	84,7

DESCRIPTION	u.m.	MONOLITE GT					
		420	555	700	780	850	
Nominal power	NominalP	kW	383,80	507,10	639,60	712,70	776,70
Seasonal energy efficiency of room heating	η_s	%	92,31	92,36	92,44	92,46	92,48
Seasonal efficiency class for heating			A	A	A	A	A
FOR ROOM HEATING BOILERS AND MIXED BOILERS: NOMINAL THERMAL POWER							
Useful thermal power at high temperature operation (tr 60 °C / tm 80 °C)	P4	kW	383,80	507,10	639,60	712,70	776,70
Efficiency at nominal thermal power at high temperature operation (tr 60 °C / tm 80 °C)	η_4	%	88,74	88,74	88,74	88,74	88,74
Nominal power at 30% of nominal thermal power at low temperature operation (tr 30 °C)	P1	kW	126,00	166,49	209,98	234,01	255,00
Efficiency at 30% of nominal thermal power at low temperature operation (tr 30 °C)	η_1	%	97,12	97,12	97,12	97,12	97,12
Boiler with power range adjustment: yes / no			no	no	no	no	no
POWER AUXILIARY CONSUMPTION							
At full load	elmax	kW	0,8	0,9	0,9	0,9	0,9
At partial load	elmin	kW	0,2	0,2	0,2	0,2	0,2
In stand-by mode	PSB	kW	0,02	0,02	0,02	0,0	0,0
OTHER ELEMENTS							
Thermal loss in stand-by mode	Pstb	kW	1,2	1,5	1,9	2,1	2,3
nitrogen oxide emissions ref. NCV (GCV)	NOx	Mg/kWh	50,0	50,0	50,0	50,0	50,0
Yearly power consumption	QHE	GJ	750,0	860,0	860,0	860,0	860,0
SOUND DATA							
Sound power level	Lwa	dB(A)	93,5	83,0	83,0	81,2	81,2

CONTROL PANEL (ACCESSORY)

The control panels which can be installed on **MONOLITE GT** Boilers are mentioned in the table.

They must be ordered separately from the Boiler according to their technical characteristics and to the needs of the system served; it is recommended to see also the **ICI Caldaie S.p.A. CATALOGUE**.

For the installation, refer to the manual supplied with the panel.

Description	Code
Thermostatic control panel	QACC10ELMCE
eterm Boiler control panel	QETERM01CE
eterm system control panel	QETERM02
eterm Easy manager panel	QCTETERM

BURNERS

The burners are supplied together with **MONOLITE GT** Boilers and are CE marked in accordance with European Directives:

- European Regulation on Gas Equipment GAR 2016/426/EU
- Low Voltage Directive 2014/35/EU
- Electromagnetic Compatibility Directive 2014/30/EU
- Efficiency Directive 92/42/EEC.

Models up to 400kW comply with the Ecodesign of Energy-using Products Directive 2009/125/EC and with the delegated Regulation (EU) no. 813/2013.



IMPORTANT

To fit the burners on the **MONOLITE GT** Boilers refer to the specific chapter "BURNER ASSEMBLY" and to the relevant manual of the appliance.

2 Installation

PRODUCT RECEIPT

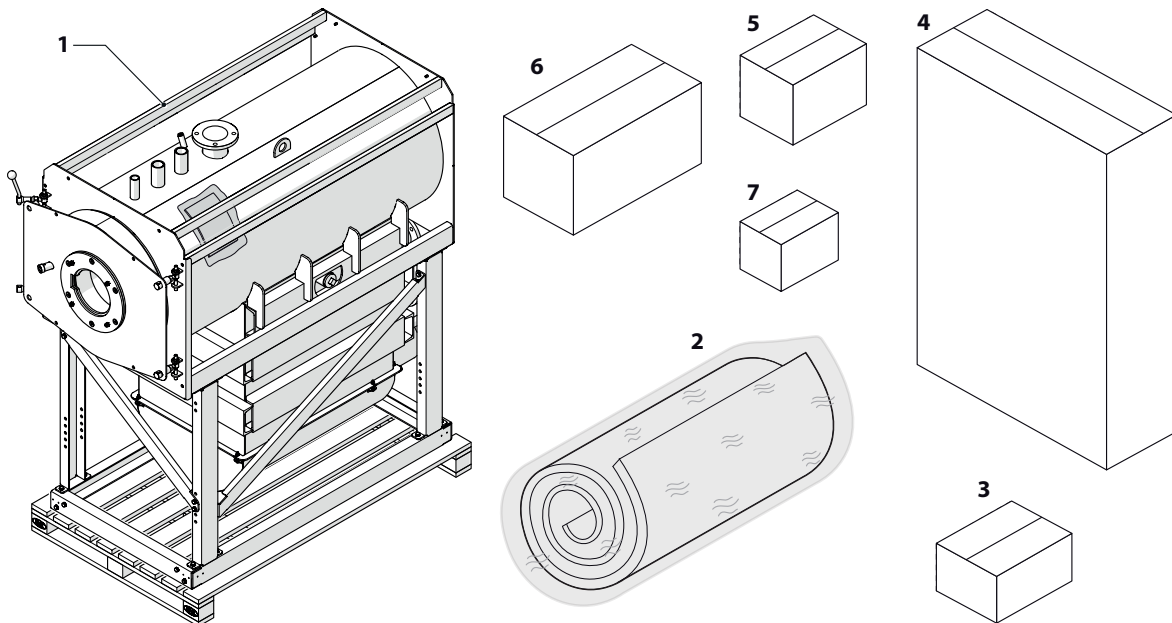
Each phase of the appliance installation must be carried out by **Qualified Personnel, wearing appropriate Personal Protective Equipment (PPE)**, in compliance with the national and local Laws in force.



An incorrect installation of the appliance or the failure to use PPE can cause severe damage to persons or property for which the Manufacturer **DECLINES ANY RESPONSIBILITY**.

MONOLITE GT Boilers are supplied in six packages, indicated below, positioned on one pallet:

- **BOILER BODY (1)**
- thermally insulating mineral wool **MATS (2)** and fastening springs
- **SLAT SUPPORT KIT (3)**
- **SLATS (4)**
- **CONTROL PANEL (5)**
- **BURNER (6)**
- flow **ELBOW (7)** and thermoceramic material for burner head



IMPORTANT

Upon receipt of **MONOLITE GT** Boiler, make sure that the supply is intact and undamaged and promptly contact **ICI CALDAIE S.p.A.** if it does not correspond to the order



IMPORTANT

The instruction manual is an integral part of the appliance and it **MUST** be carefully read before installing and commissioning the Boiler, carefully stored for further consultations and it **MUST** always accompany Boiler.

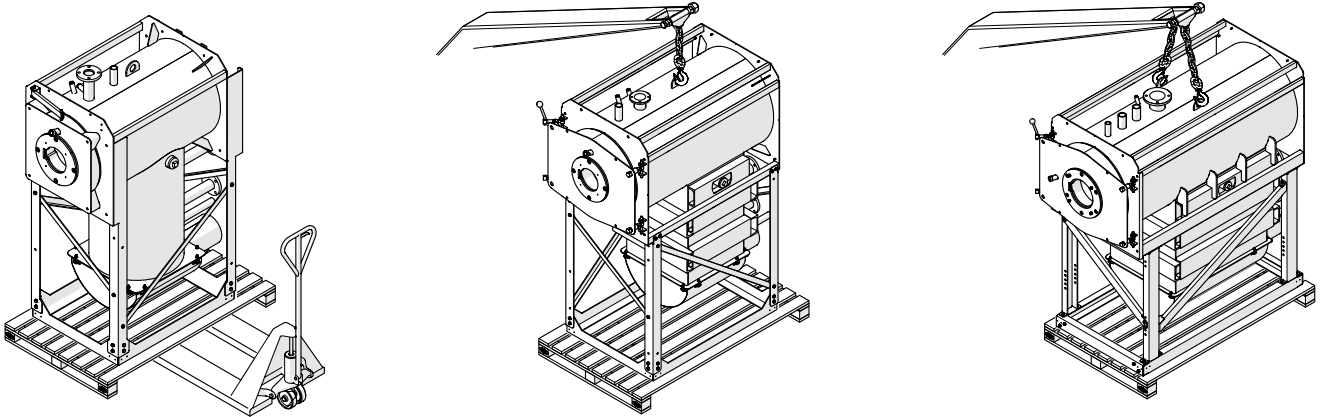


IMPORTANT

PACKAGING: as for packages, **ICI CALDAIE S.p.A.** complies with the specific recycling systems of each country, ensuring an optimal reuse of them. All the materials used for the packaging respect the environment and can be recycled, such as wood, plastic, cardboard.

HANDLING

MONOLITE GT Boilers are equipped with fittings for lifting operations and, in any case, they must be carefully moved with equipment suitable for their dimensions and weights.



ATTENTION

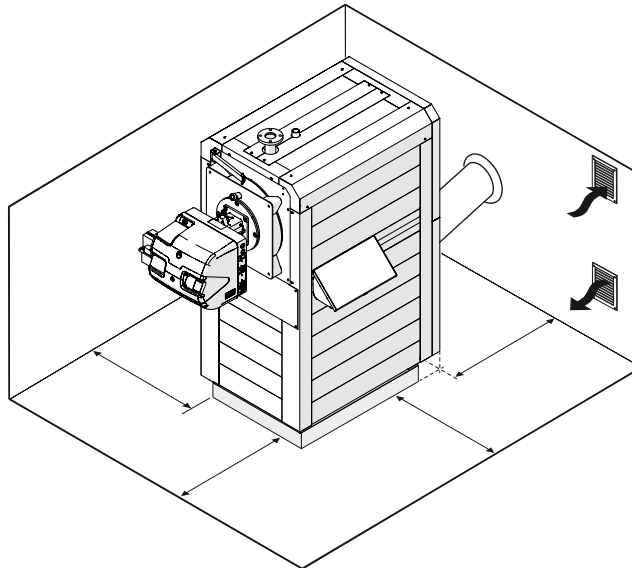
The Personal Protective Equipment required by current legislation must be used.

INSTALLATION ROOM

The room where **MONOLITE GT** Boilers are to be installed must be exclusively used for them, compliant with the Technical Standards and the Law in force and equipped with adequately dimensioned vents.

The spaces around the Boiler and towards the ceiling must be suitable for:

- installing the appliance
- reaching the safety devices
- maintenance
- repairing any breakage
- opening the door of the installed burner, considering its opening direction (towards the right or the left).



ATTENTION

- Consider the spaces necessary to access the adjustment and safety devices and to perform maintenance in compliance with the legislation in force in the place of installation.
- If the burner is fed with gas of specific weight greater than that of the air, the electrical parts must be positioned at least 500 mm from the ground.



IMPORTANT

COMBUSTION AIR: MONOLITE GT Boilers MUST be installed in rooms which are permanently vented with adequately dimensioned vents, according to the appliance's thermal power, and which comply with the Technical Standards and the national and local Laws in force at the place of installation.

SYSTEM CLEANING

Before connecting the Boiler to the system, it is MANDATORY to wash the pipes thoroughly in order to remove any residues which may compromise the correct operation of the Boiler.

HYDRAULIC CONNECTIONS

The hydraulic circuit must be built by an authorised company or by qualified personnel, in compliance with the Technical Standards and the Law in force.

The components shall be charged to the installer that, at the end of the works, must issue a declaration of conformity.



IMPORTANT

ICI CALDAIE S.p.A. is not liable for any harm to people, animals or property damage caused by errors in the choice of components or in the construction of the plant.

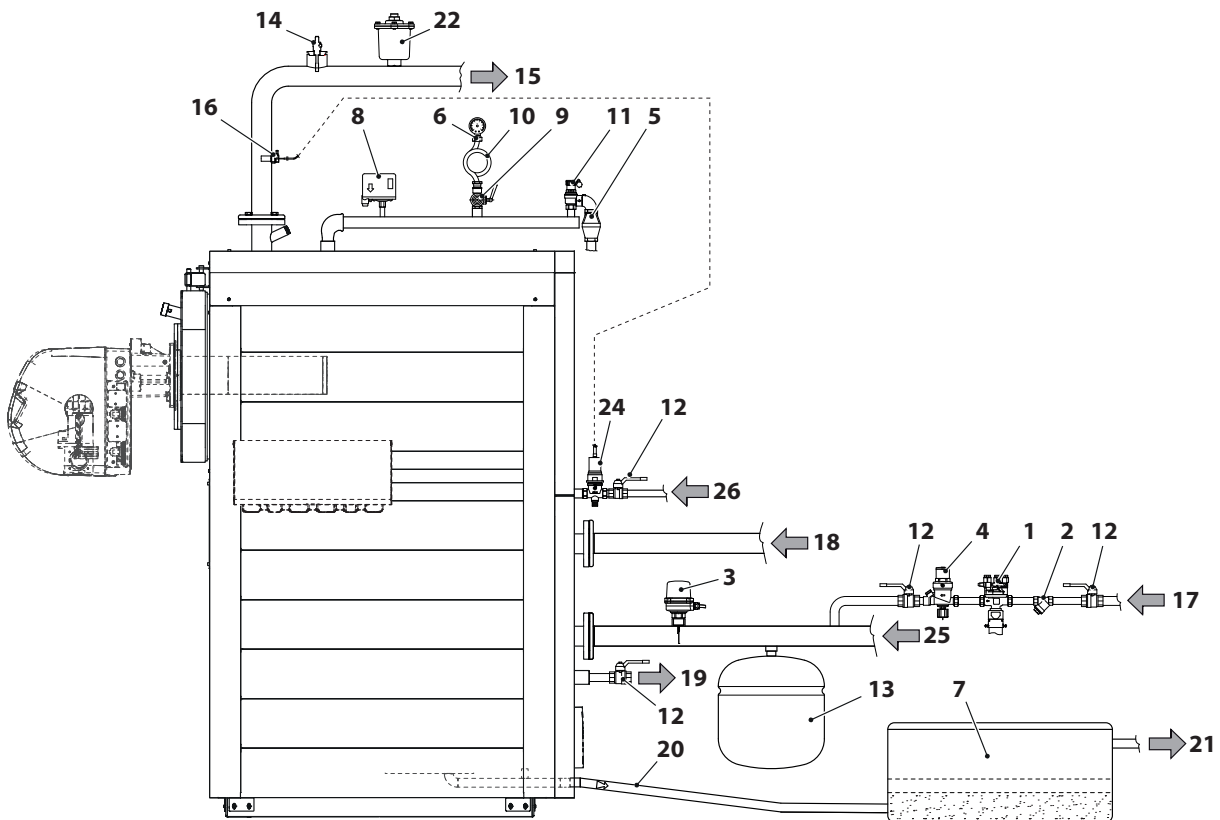


IMPORTANT

- Make sure that the hydraulic pressure measured downstream of the pressure regulator on the supply line does not exceed the operating pressure indicated on the Boiler plate.
- Make sure that the drains of the safety valves of the Burner and of the heater, if any, are connected to a drain funnel, so that the valves do not flood the room in case of intervention.
- Make sure that the water and heating system pipes are not used as earthing point of the electrical system.
- Once the heating system has been filled, it is recommended to close the supply tap and keep it closed so that any system losses can be signalled by an hydraulic pressure drop detected on the system manometer.
- For reasons of technical expertise, the system components must be chosen and installed by the installer, that must operate in accordance with good practice regulations and Laws in force.

STARTING HYDRAULIC CIRCUIT

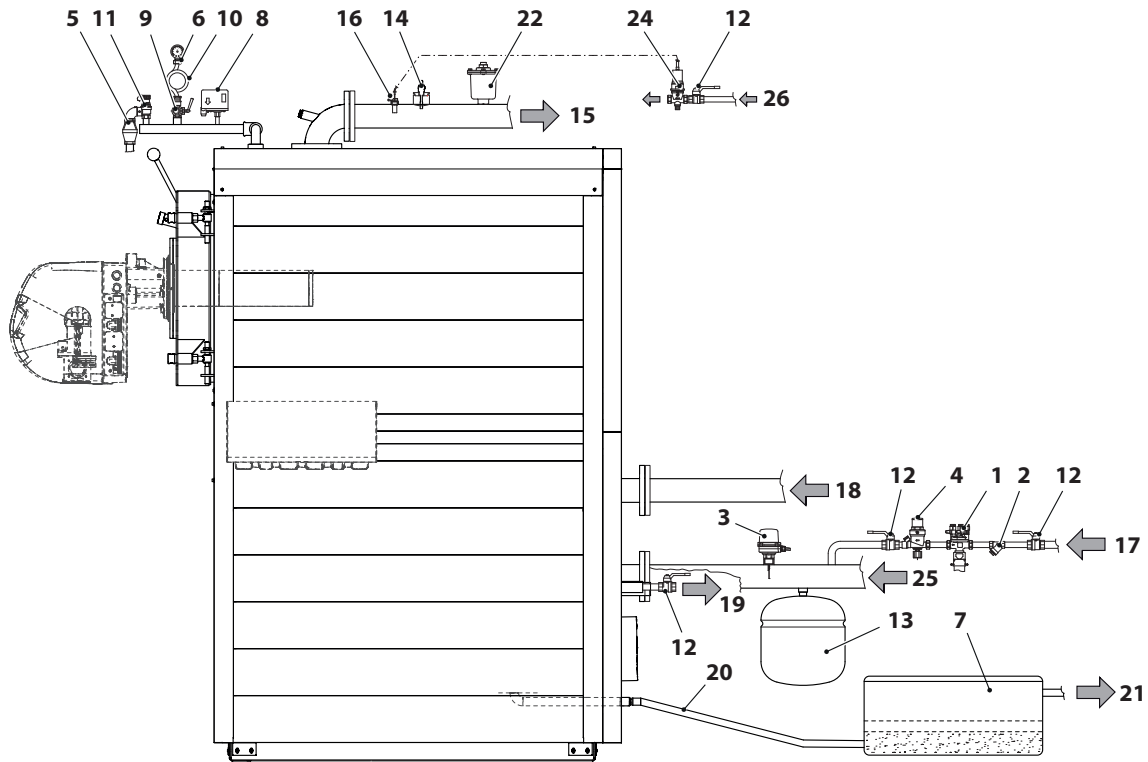
120 - 140 - 180 models



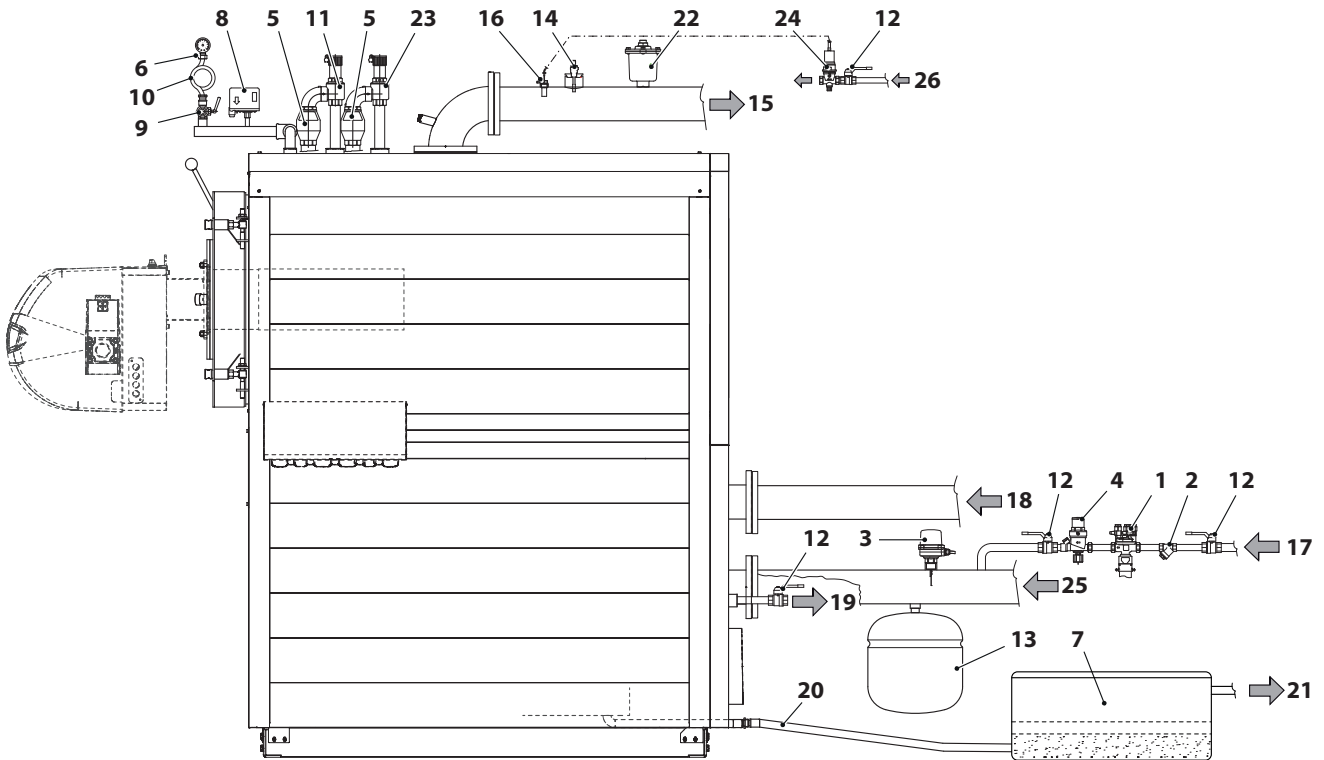
NOTE

If only one return is required, always use the low temperature one.

250 - 320 - 420 models



555 - 700 - 780 - 850 models



- | | | |
|--|--|--|
| 1 Hydraulic backflow preventer | 11 Safety valve no.1 | 19 Boiler drain |
| 2 Y-shaped filter | 12 Manual shut-off valve | 20 Acid condensate outlet |
| 3 Flow switch | 13 Expansion vessel | 21 Neutralised condensate outlet |
| 4 Filling unit | 14 Level probe glow plug (optional) | 22 Air bleed valve |
| 5 Drain funnel with articulated elbow pipe | 15 System flow | 23 Safety valve no. 2 (only with thermal power above 580 kW) |
| 6 Pressure gauge | 16 Fuel shut-off valve probe | 24 Fuel shut-off valve |
| 7 Condensate neutraliser (see ICI catalogue) | 17 Water inlet for system refill or top up | 25 Low-temperature return |
| 8 Pressure transducer | 18 Medium-temperature return | 26 Gas inlet |
| 9 Pressure gauge tap | | |
| 10 Shock-absorbing pipe | | |

FLUE EXHAUST

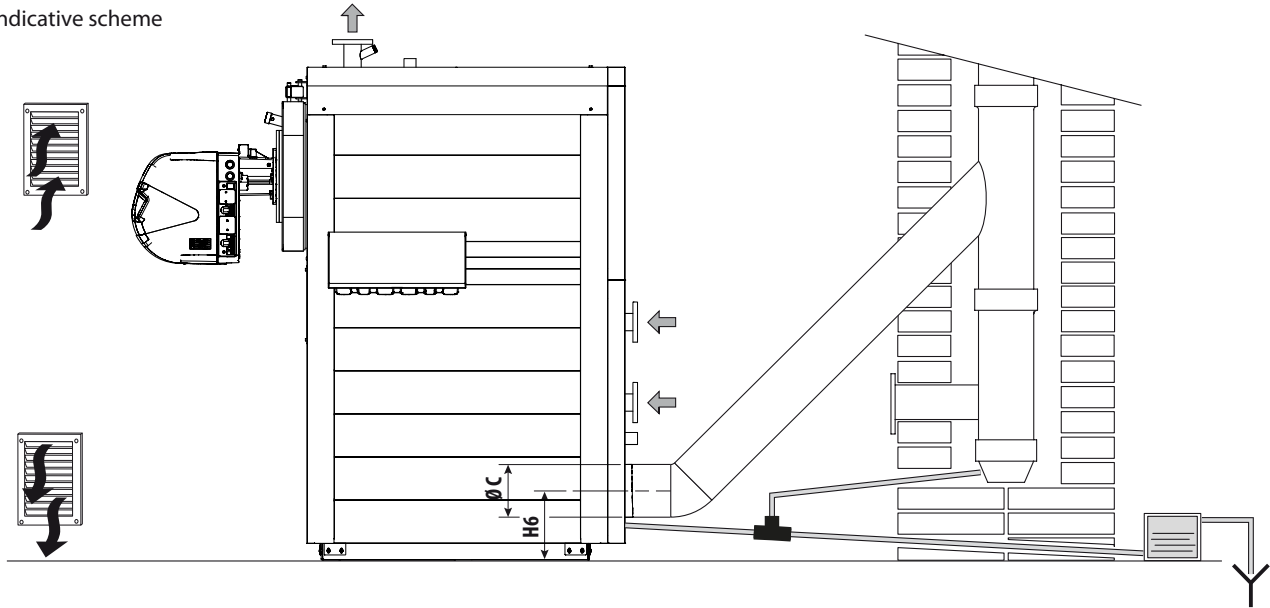
The smoke duct and the connection to the chimney must be built in compliance with the Standards and the Laws in force, with rigid pipes, suitable for the temperature, resistant to condensate, mechanical stresses and sealed.



IMPORTANT

The smoke duct must have a diameter equal to or larger than the Boiler fitting.

Indicative scheme



Description	u.m.	MONOLITE GT									
		120	140	180	250	320	420	555	700	780	850
H6	mm	241	241	241	358	358	358	308	308	308	308
Ø C	mm	180	180	180	200	200	200	250	250	250	250



DANGER

- the chimney must ensure the draught necessary for the Boiler operation and provided by the Technical Standards in force, considering a "zero" pressure at the connection with the smoke duct
- unsuitable or badly dimensioned chimneys and smoke ducts can cause problems and adversely affect the combustion parameters
- non-insulated drain pipes can lead to a potential risk and the tightness of the joints must be ensured with materials resistant to the temperatures of the drain flue gases (we recommend at least 250°C)
- check that the chimney has an adequate draught and that is free from bottlenecks and waste.

CONDENSATE DRAIN

MONOLITE GT Boilers are equipped with a condensate drain pipe, derived from the appliance and the flue gas drain.

The condensate is acid and **MUST** be treated, by the installer, in compliance with the national and local Laws in force in the country of installation.

The condensate acidity can be periodically checked using litmus test paper to determine the pH.

For the choice of the condensate neutraliser, which is system **ACCESSORY** to be ordered and purchased separately, use the ICI catalogue.



IMPORTANT

- The condensate drain pipe must be sealed and have dimensions \geq than those of the appliance drain pipe and of the trap and it must not have bottlenecks and reductions.
- It is recommended that it always has a slope \geq than 3% towards the drain.

DOOR OPENING

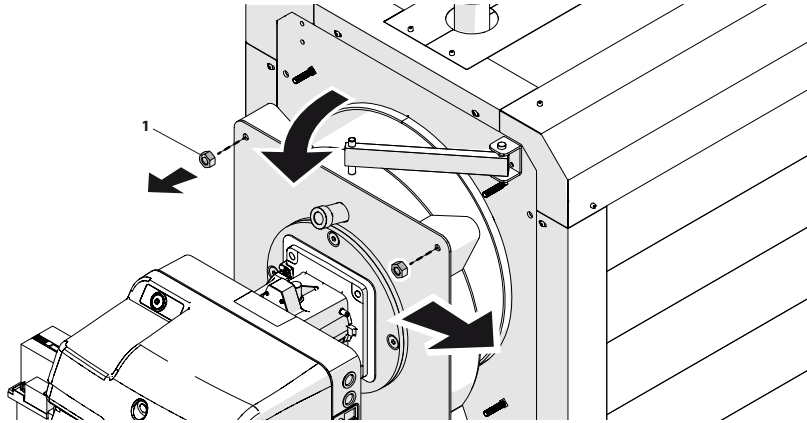
The door is adjusted in the factory with standard opening to the left (Sx) and hinges on the right (Dx).

120 - 140 - 180 models

For **120, 140, 180** models, the door is opened by "pulling" and moving it from the left (LH) to the right (RH).
Before opening the door:

- close the gas line shut-off valves and disconnect the pipes
- loosen the 4 nuts (1) and pull the door, which will slide and move towards the right (RH).

To move it towards the left (LH), operate as described in the following paragraph DOOR OPENING INVERSION.



250 - 320 - 420 - 555 - 700 - 780 - 850 models

250 - 320 - 420 - 555 - 700 - 780 models

The door is factory set with a standard opening from the left (LH) to the right (RH).



IMPORTANT

The hinges of the opening side must have the nut (1) loosened and the conical washer (2) positioned towards the base of the adjustment tie-rod.

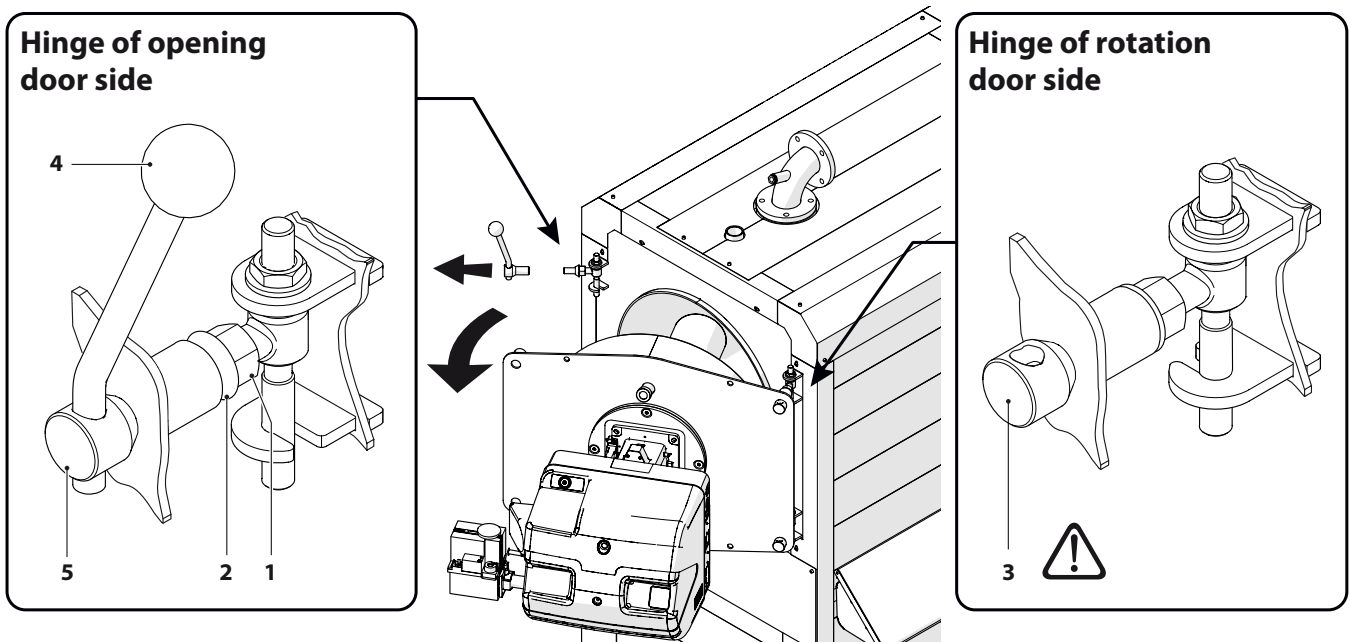


DANGER

IT IS DANGEROUS TO UNSCREW the ring nuts (3) of the door rotation hinges. Unscrewing them could cause the detachment of the door, with possible severe damages to persons and property.

Before opening the door:

- close the gas line shut-off valves and disconnect the pipes
- use the lever (4) to unscrew and extract the ring nuts (5) of the two hinges on the opening side of the door and pull it carefully.





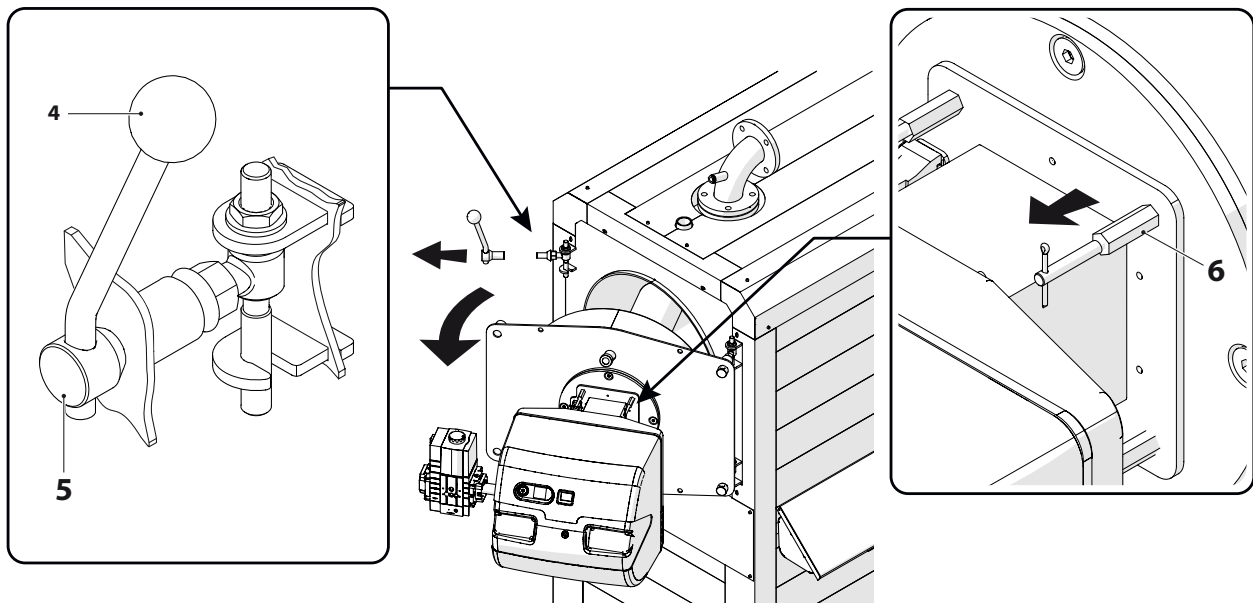
IMPORTANT

To open the door of **420** Boiler **WITH INSTALLED BURNER** proceed as follows:

- close the gas shut-off valve and disconnect the burner line
- unscrew the hexagonal nut (6) by about 20mm
- move the burner backwards until it stops against the hexagonal nuts
- use the lever (4) to unscrew and extract the ring nuts (5) of the two hinges on the opening side of the door and pull it carefully.

NOTE

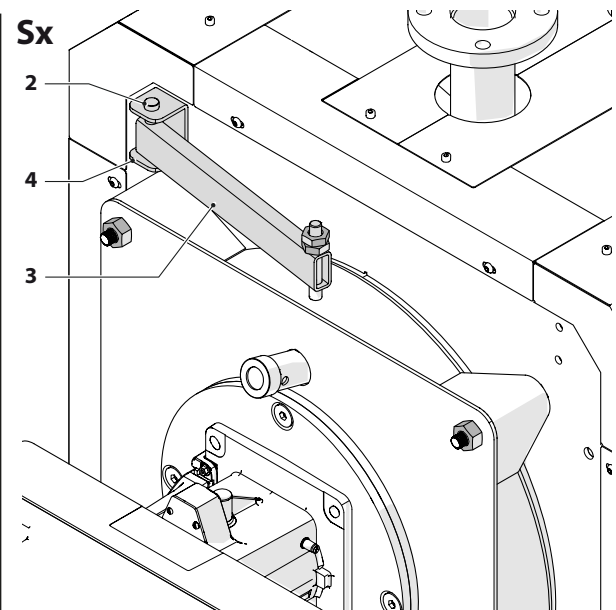
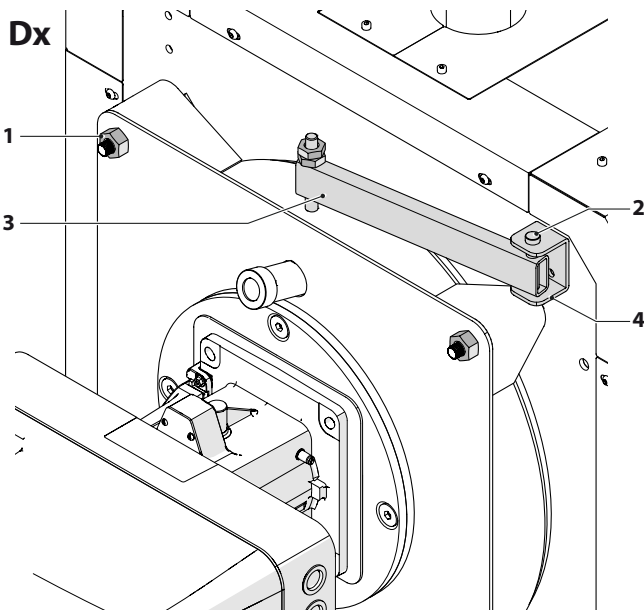
Always keep the two ring nuts well tightened on the side opposite to the opening one.



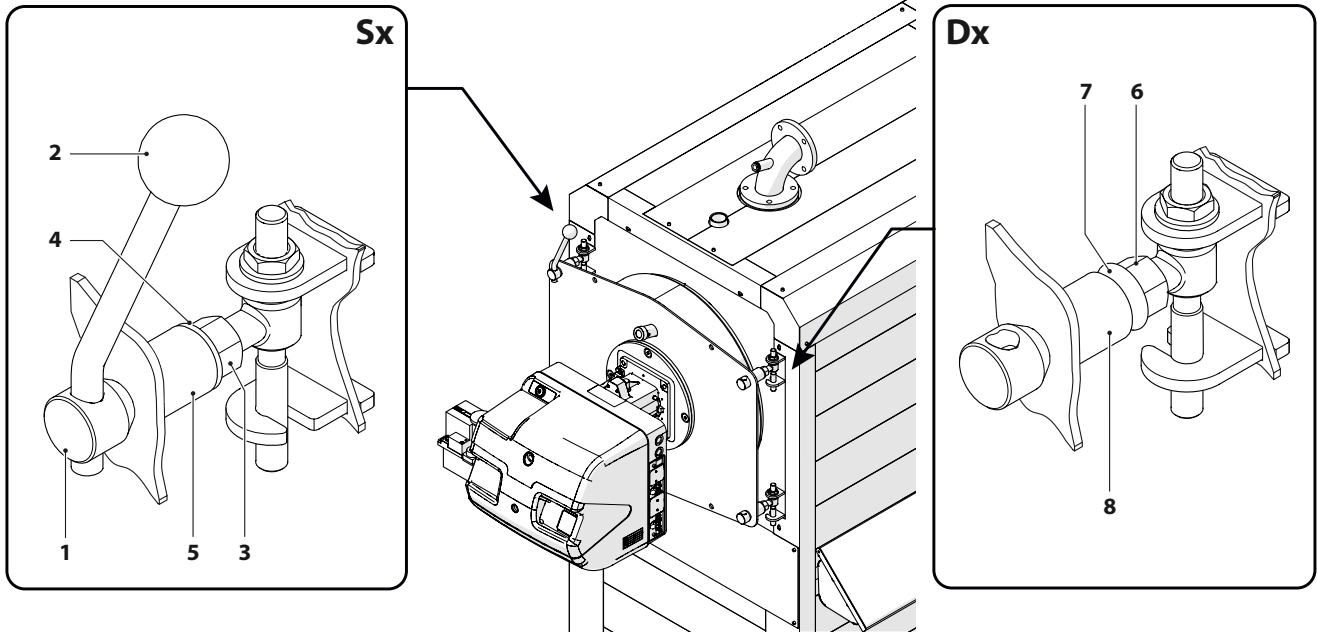
DOOR OPENING INVERSION (FROM THE RIGHT TO THE LEFT)

To invert the door opening of **120**, **140** and **180** models, proceed as follows:

- leave the 4 nuts (1) which lock the door tightened
- slide the pin (2) out
- move the arm (3) to allow the access to the two screws fastening the support bracket (4) and then remove the two screws
- fasten the support bracket (4) on the Boiler left side using the two screws previously removed, inserting them into the two relevant seats. Strongly tighten the screws
- connect the arm (3) to the support bracket (4) using the pin (2).



For **250, 320, 420, 555, 700, 780, 850** models, the door opening can be inverted as follows.



Left hinge:

- screw the ring nuts (1) of the left side with the lever (2) in such a way that the distance of the door from the appliance front plate is the same and the sealing gasket is uniformly pressed.
- screw the nuts (3), of the left tie-rods, until the conical washers (4) are inserted into the door mechanical tubes (5). Properly tighten the nuts (3).

Right hinge:

- loosen the nuts (6) and disengage the conical washers (7) from the door mechanical tubes (8).

DOOR ADJUSTMENT



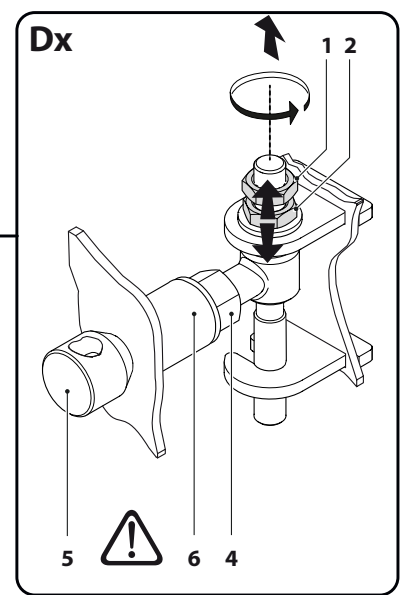
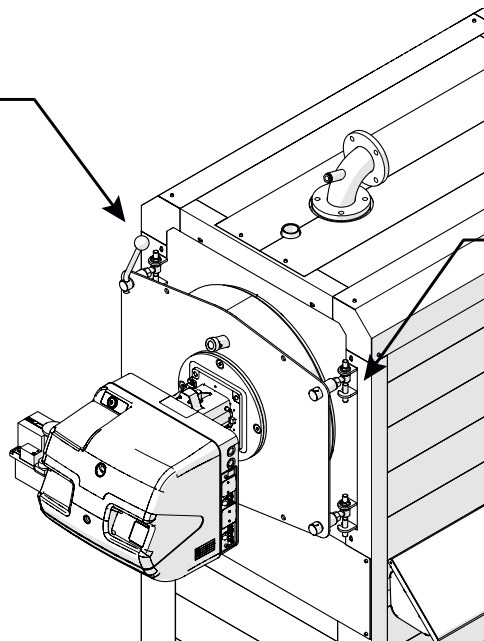
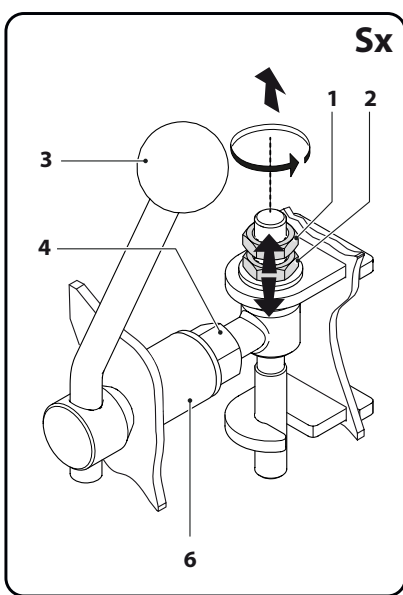
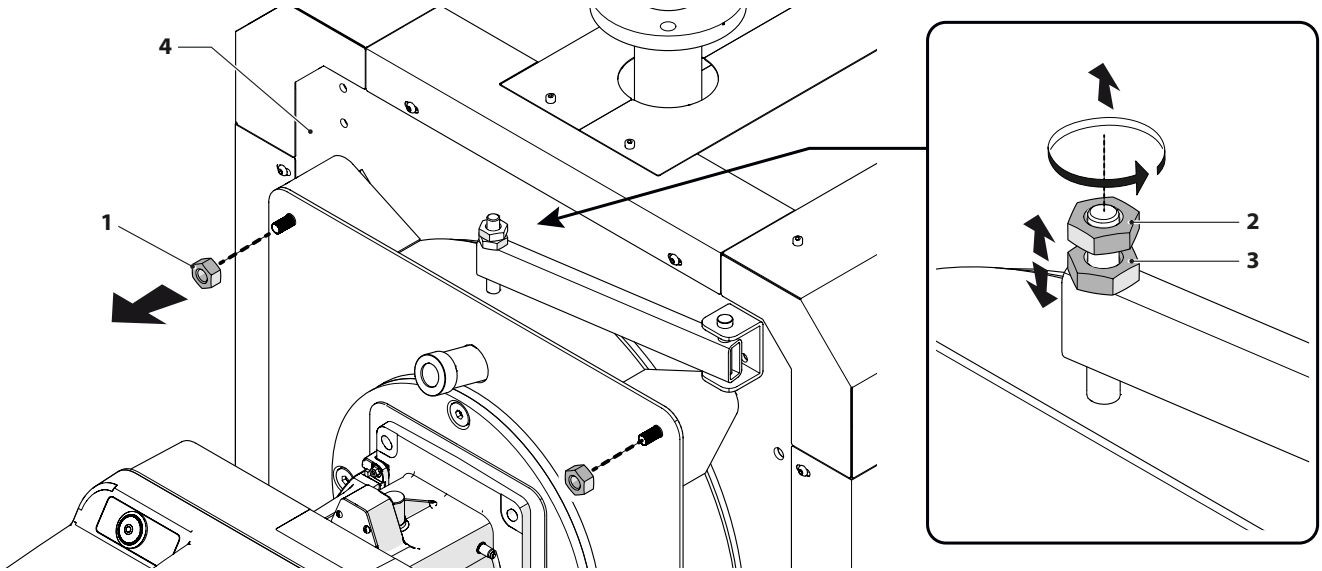
DANGER

Incorrect door adjustment with consequent damage to people and property voids the warranty conditions.

The door of **120, 140** and **180** model requires, if necessary, only the adjustment of its height.

To make the adjustment:

- remove the nuts (1) fastening the door
- unscrew the locknut (2) **WITHOUT REMOVING IT**
- work on the adjustment nut (3) to lift or lower the door, centring the gasket on the appliance front plate (4) and lock the locknut (2)
- refit the four nuts (1), previously removed, and lock them by tightening them diagonally.



For **250, 320, 420, 555, 700, 780, 850** models, the door adjustment is performed as follows.

VERTICAL ADJUSTMENT

To make the adjustment:

- with the door ajar, loosen the counter-nuts (1) of the hinge units
- act on the adjustment nuts (2) to lift or lower the door by centring the gasket on the stop plate, then block the counter-nuts (1).

HORIZONTAL ADJUSTMENT

Close the door with the lever (3) and check that the distance between the appliance front plate and the door wall is the same on both sides. If not:

- with the door ajar, loosen the locking nuts (4) of the hinge units
- work on ring nuts (5) to adjust the distance of the door from the appliance front plate
- tighten the nuts (4) locking the conical washers in the pipes (6).



DANGER

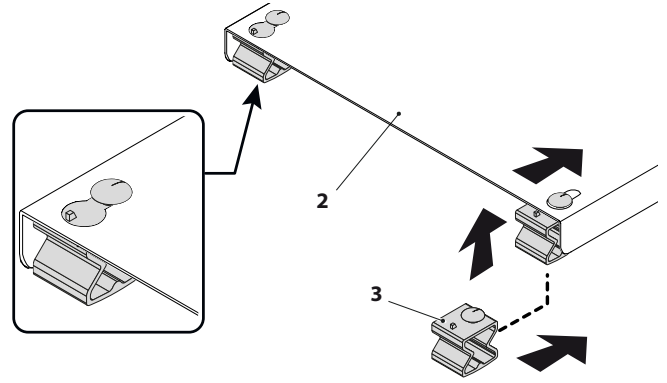
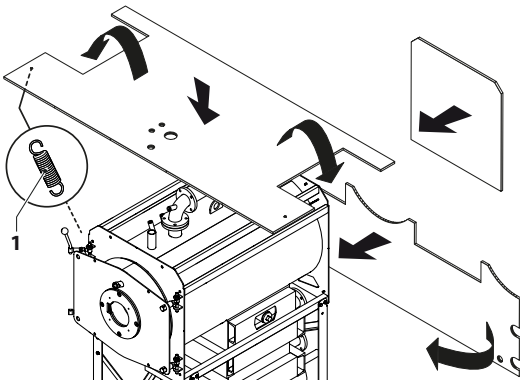
When cross-changing ferrules, always make sure that the other two ferrules are fastened, so that they hold the door.

Check the proper adjustment in depth ensuring that the door, manually pushed up to the stop plate, naturally returns remaining ajar. This is to ensure the hinge side fume seal.

INSULATING CASING ASSEMBLY

To fit the insulating casing proceed as follows:

- wrap the thermally insulating mats around the Boiler body and lock them with the supplied springs (1)
- prepare all the slats (2) inserting the locking plugs (3) in the corners of each one of them, as shown in the figure below

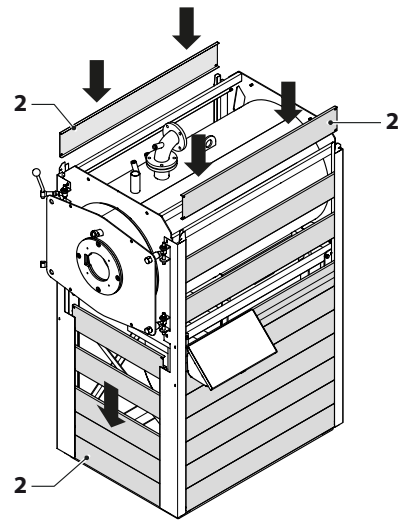
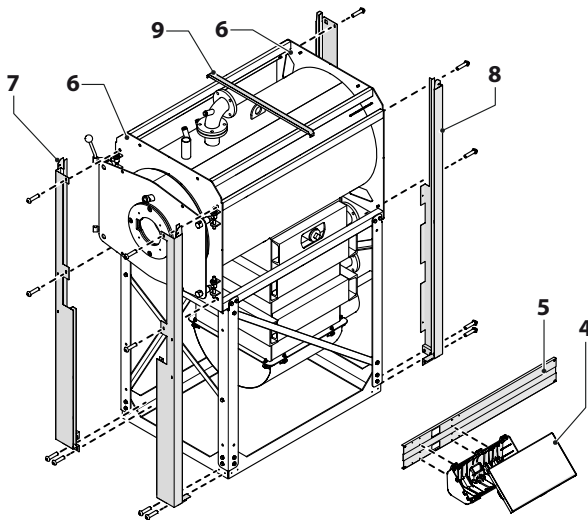


- open the control panel (4) and fasten it to the panel supporting slat (5) using the supplied screws and nuts
- fasten the front (7) and rear (8) pillars to the base and to the plates (6) using the supplied screws and nuts
- insert the slats (2) on the lateral and front side

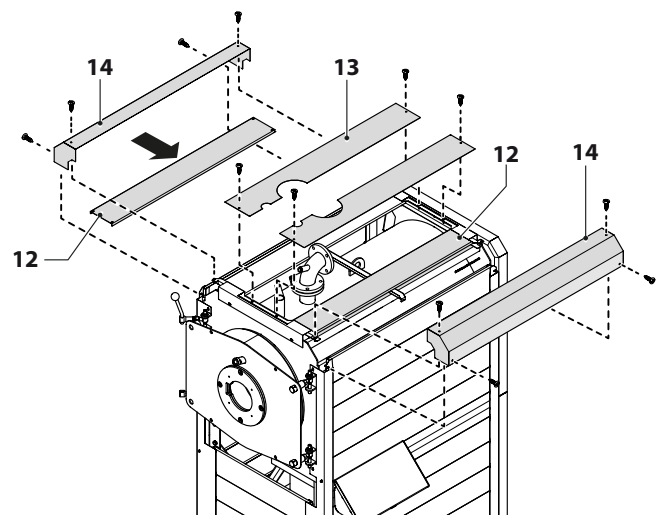
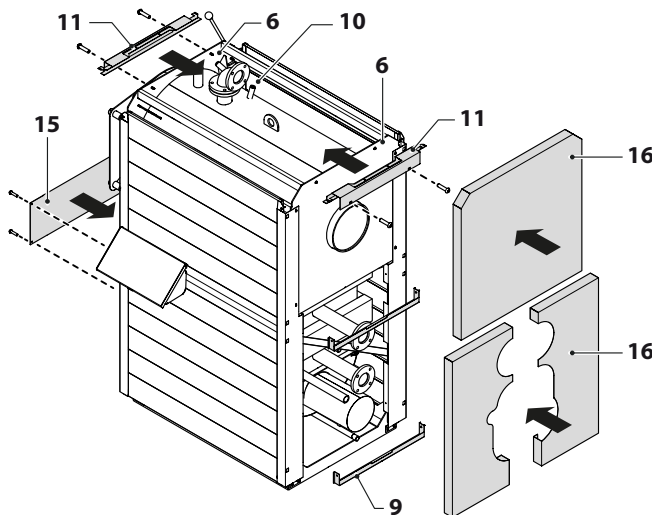


IMPORTANT

- The panel supporting slat (5) must be the seventh one on the side featuring the control panel.
- The cross beam (9) must be fastened to the two square tubes to support the upper slats.



- insert the control panel probes in the pockets (10) located in the Boiler and properly route the electrical cables for the required connections
- fasten the two cross beams (11) to the plates (6), insert the upper slats (12), fasten the central jigs (13) and the end profiles (14) using the supplied self-threading screws
- fasten the front plate (15) and the three rear closing panels (16).



BURNER ASSEMBLY

For the activities listed below, concerning the burner:

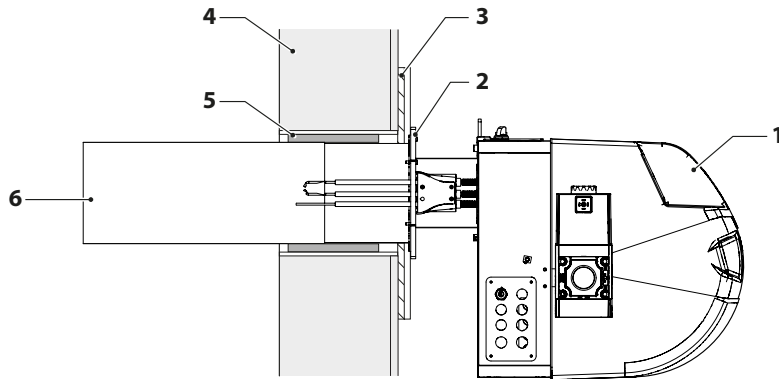
- installation and fastening to the Boiler
- the connection to the fuel supply
- the electrical connections
- the adjustments to be made
- maintenance
- the necessary checks.

refer to the Manual supplied with the appliance.



IMPORTANT

Insert the thermoceramic material strip, supplied with the insulating casing, into the gap between the burner combustion head and the door. The strip must be wrapped around the combustion head for at least one entire circumference, without having to fill the whole thickness of the gap.



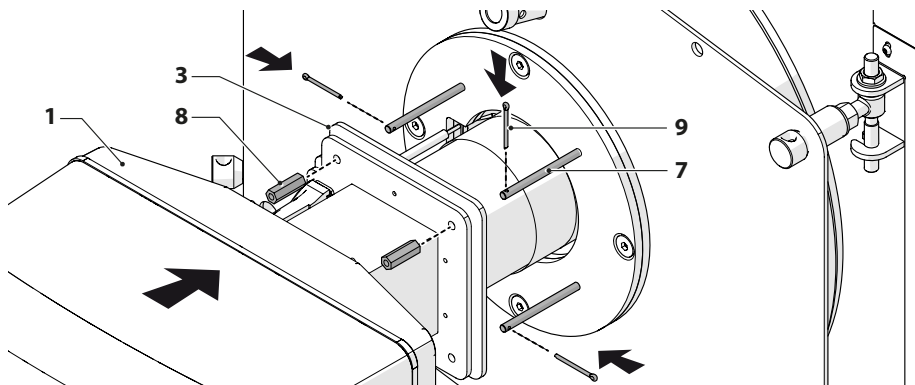
- 1 Burner
- 2 Flange
- 3 Gasket
- 4 Door
- 5 Thermoceramic material
- 6 Combustion head



IMPORTANT

To assemble the burner of the **420** Boiler model proceed as follows:

- insert the gasket and the flange (3) of the burner (1) in the four stud bolts (7) on the Boiler burner flange
- screw the four hexagonal nuts (8) supplied
- tighten the four hexagonal nuts (8) properly in order to lock the burner to the Boiler
- insert the supplied cotter pin (9) into the hole in the stud bolts.



ELECTRICAL CONNECTIONS

The electrical system of **MONOLITE GT** Boilers must be built by an Authorised Company that must refer to the wiring diagrams supplied with the Boiler, with the control panel and with the burner. Moreover, it must operate in compliance with the Technical Standards and the national and local Laws in force.

Once the work is complete, the Authorised Company must issue the **Declaration of Conformity** of the system built.



IMPORTANT

It is mandatory to:

- use an omnipolar thermal-magnetic line circuit breaker complying with the Standards CEI-EN (contact opening of at least 3 mm)
- observe the connection L (Phase) - N (Neutral). Keep the earth conductor longer than the power supply conductors by approximately 2 cm
- connect the earth cable to an effective earthing system. **ICI Caldaie S.p.A.** is not liable for any damage caused by the lack of the earthing system and the failure to comply with the instructions of the wiring diagrams.



PROHIBITION

Do not use the water and heating system pipes for the **earthing connections**.

WATER TREATMENT

The thermal system water must comply with the Laws in force, therefore it is good practise to use treatment units when the line water is particularly rich in calcium carbonate, which causes scale build-ups and corrosion. The table includes some indicative values:

Characteristics	Scale	Filling water	Circuit water
pH*		-	7-8
Hardness (CaCo2)	°Fr	< 15	-
Iron (Fe)**	mg/kg	-	< 0.5
Copper (Cu)**	mg/kg	-	< 0.1
Oxygen (O2)	mg/l	< 0.05***	-
Appearance		Clear	Possibly clear

* 8 is the maximum acceptable pH value in case of radiators in aluminium or light alloys.

** Higher values indicate on-going corrosion phenomena.

*** In case of agents which form oxygen film and/or surplus, do not observe this value with intermittent operation or operation without deaerator, but use the additive.

LIMESTONE BUILD-UPS

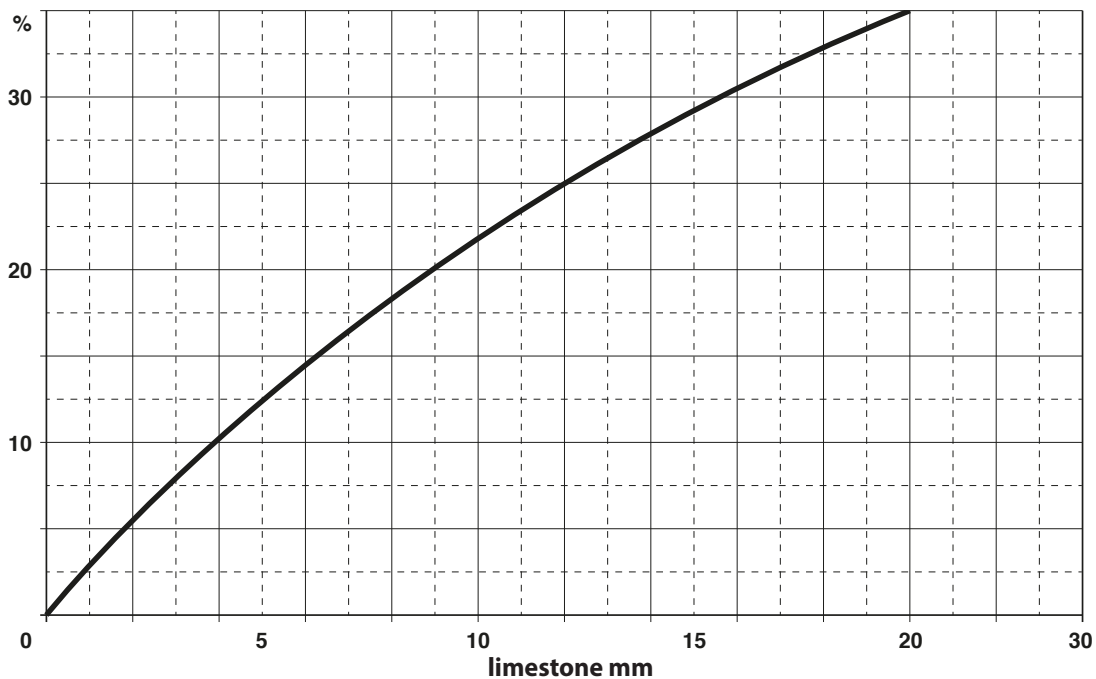
Limestone build-ups reduce the heat exchange between the combustion gases and water, leading to an abnormal increase of temperature of the parts exposed to the flame and thus to a significant reduction of the Boiler service life.

Limestone gathers in the points where the wall temperature is higher and the best defence against it, at the construction level, is to eliminate the superheating areas.

Scale build-ups form an insulating layer which decreases the heat exchange of the boiler, penalising its efficiency. This means that a significant part of the heat obtained from the combustion is not fully transferred to the system water, but is lost through the chimney.

LIMESTONE DIAGRAM

Lost heat



CORROSION ON WATER SIDE

The corrosion of the Boiler metal surfaces on the water side is due to the iron transit into solution through its ions (Fe+). In this process, the presence of dissolved gases, in particular oxygen and carbon dioxide, is very important. Corrosion phenomena often occur with softened and/or demineralised water, which by nature is more aggressive against iron (acid water with Ph < 7); in these cases, even when scale build-ups are prevented, corrossions can occur and it is necessary to treat the water with corrosive process inhibitors.

SYSTEM FILLING AND EMPTYING

FILLING

- Before filling the system, disconnect the power supply by positioning the system main switch to “**OFF**” and check that the Boiler drain valve is closed
- open the Boiler filling valve and the shut-off valve of the hydraulic system and make the water enter slowly, in quantities proportional to the venting capacity of the automatic or manual air separators, and until the expansion vessel pre-filling static pressure value can be read on the manometer
- close the previously opened Boiler filling valve and the hydraulic system filling valve
- heat the water for the first time until reaching the system maximum permitted temperature. During this operation, the air contained in the water is vented through the system’s automatic or manual air separators
- once the air has been expelled, bring the pressure back to the preset value and close the manual and/or automatic supply tap.
- After the initial filling, it is necessary to prevent oxygen and untreated water from entering the system.
- The entry of oxygen causes corrosion, while untreated water causes the formation of limestone.
- Both conditions must be avoided.

NOTE

The system venting will be completed, if necessary, upon the first commissioning of the Boiler.

EMPTYING

- Before starting to empty the system, disconnect the power supply by positioning the system main switch to “**OFF**”
- check that the hydraulic system shut-off valve is closed
- connect a rubber hose to the drain valve of the Boiler and convey it towards the drain pocket
- close the shut-off devices of the thermal system parts which must not be emptied
- slowly open the Boiler drain valve. To facilitate the draining, open the air separators on the system
- once the operation is complete, close the previously opened air separators and the drain valve.

3 Use

PRELIMINARY CHECKS

Before commissioning the Boiler and carrying out the functional tests, check that:

- the system has been filled and the hydraulic circuit pressure, in a cold state, is correct
- the flue gases are correctly discharged and there are correctly dimensioned vents
- electrical connections and earth connection are correctly carried out
- check that the type of gas is the right one, that the fuel supply line has been correctly built and that the fuel is available
- hydraulic and fuel circuit taps are open
- check that the condensate drain of the Boiler is not clogged
- check that the rotors of the circulation pumps are not blocked.

COMMISSIONING

To start the Boiler after performing the preliminary checks it is necessary to:

- set the regulation thermostats on the control panel to the correct temperatures
- check that the release button of the safety thermostat inside the control panel is reset
- correctly adjust the control panel devices according to the installed model
- position the system "main" switch and the control panel "main" switch to "ON"
- operate on the ambient thermostat or chronothermostat and activate a heat request

The Boiler will perform the ignition phase and will operate until the adjusted temperatures will be reached.



IMPORTANT

In case of **LOCK-OUT STOP** of the burner, refer to its technical manual.

CHECKS AFTER COMMISSIONING

Once the start-up has been performed, check that the appliance stops and then restarts:

- by modifying the Boiler thermostat calibration
- by operating on the control panel main switch
- by operating on the ambient thermostat or chronothermostat.

Once that the stopping and starting test has been performed, proceed with the following operations:

- check the tightness of the door gasket and repeat the adjustment in case of leakages
- check the correct operation of pumps
- check the Boiler stop by positioning the system main switch to "**OFF**"
- check the safety thermostat triggering.

If all the conditions are met, start the Boiler, bring it to its full operation and collect the combustion data.

NOTE

The flame inspection window is equipped with a hose connector which can be used both as a pressure test connection and for cooling the flame inspection window.



IMPORTANT

The burners can operate for a time **NOT longer than 24 hours**, after which it is necessary to stop and restart the burner.

STOP PERIODS

SHORT PERIODS OF TIME

In case of system switch-off for a short period of time:

- position the central panel switches and the control panel switch to “OFF”



IMPORTANT

If the external temperature is below ZERO:

- the Boiler must be electrically powered
- the fuel supply must be opened
- the Boiler thermostat must be adjusted to the minimum value
- the ambient thermostat or chronothermostat must be activated and adjusted to about 10°C or switched to the **anti-freeze** mode.

LONG PERIODS OF TIME

If the Boiler is not used for a long period of time, it is recommended to:

- position the central panel switches and the control panel switch to “OFF”
- close the fuel and water interception valves of the hydraulic system.



IMPORTANT

If the external temperature is below ZERO:

- empty the thermal system
- use anti-freeze liquid (propylene glycol) until a maximum percentage of 3%.

DECOMMISSIONING OF OLD APPLIANCES

Decommissioned appliances contain materials which can be recycled and their constructive elements can be easily separated. In this way, the different components can be sorted out for recycling or disposal.

It is required to carefully dispose of dangerous waste in compliance with the laws in force in the country of destination of the appliance.

4 Maintenance

Periodic maintenance is prescribed by Law and must be performed only by qualified personnel, at least once a year or more frequently, depending on the Boiler output and on the fuel used.

The boiler maintenance and cleaning operations are essential for its safety and to keep its efficiency high, extending its service life.



IMPORTANT

Before performing any maintenance or cleaning:

- disconnect the power supply by positioning the system main switch and the control panel switch to "OFF"
- close the fuel supply
- use all Personal Protective Equipment required by current Standards and Legislation
- wait for the Boiler and the system to cool down.

BOILER

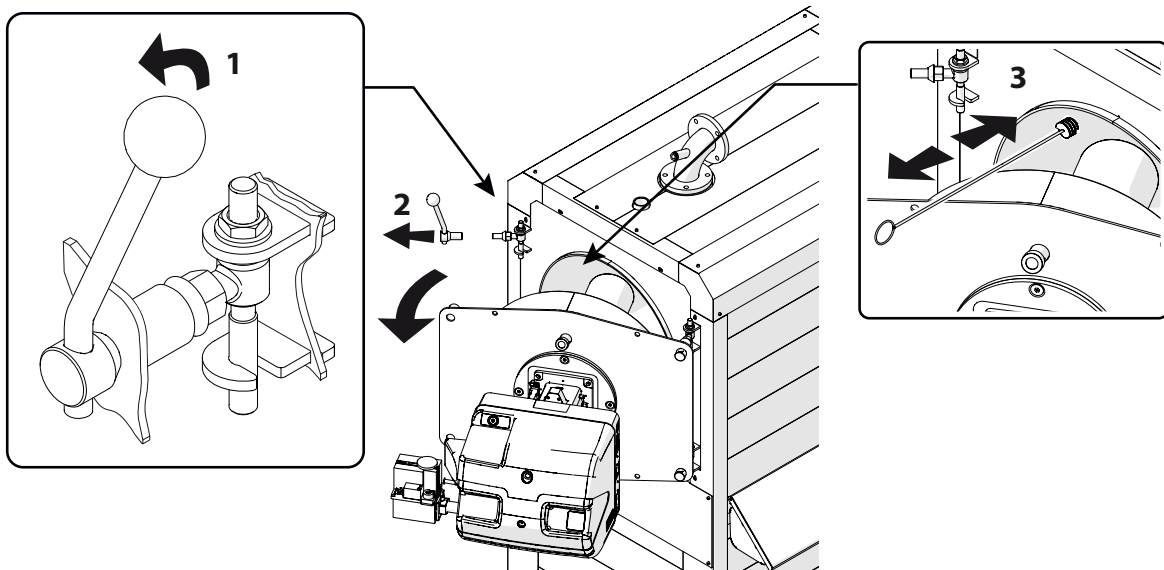
External cleaning

To perform the external cleaning of the Boiler use cloths moistened with water mixed with denatured alcohol or specific non-abrasive detergents. Dry the surfaces thoroughly after cleaning.

Boiler internal cleaning

To perform the internal cleaning:

- disconnect from the burner anything which may hinder the door opening (e.g. gas train)
- loosen the 4 nuts or the two ring nuts with the lever (1) and open the door (2)



- clean the combustion chamber surfaces with a suitable tool (e.g. brush with plastic bristles or aspirator)
- disengage the flue gas exhaust fitting and remove the deposits trapped into the smokebox using an aspirator
- once the cleaning operation is completed, reassemble all the components, replacing the worn ones and operating by following the previous procedure in the reverse order
- any scales, on the flame side, can be easily removed by using a specific product: **LIQUIPRO CALTEC PLUS** by **ICI**.

BURNER

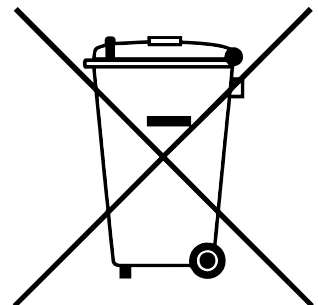
For the burner maintenance and cleaning operations, refer to the content of the burner Manual supplied with **MONOLITE GT** Boiler.

ANY ANOMALIES AND REMEDIES

ANOMALY	CAUSE	REMEDY	
The boiler gets dirty easily	Badly adjusted burner	Check the burner adjustment (flue gas analysis)	
	Dirt burner air path	Clean burner air coil	
The boiler does not reach the correct temperature	Dirt boiler body	Clean the flue gas path	
	Wrong boiler/burner match	Compare burner data with tabulated matches	
	Insufficient power to the burner	Check the burner adjustment	
	Wrong adjustment		Check the correct operation
			Check the set temperature
The boiler switches to thermal safety lock-out	Wrong adjustment	Check the correct operation	
		Check the set temperature	
		Check the electrical wiring	
		Check the probe bulbs	
	Lack of water	Check the circuit pressure	
	Air presence	Check the circuit pressure	
The boiler is at the correct temperature but the heating system is cold	Presence of air in the system	Vent the system	
	Faulty circulation pump	Unlock the circulation pump	
	Minimum Thermostat wrong adjustment (if any)	Check the set temperature	
	Faulty minimum Thermostat (if any)	Check the efficiency	
Unburned material odour	Flue gases dispersion into the environment	Check the boiler body cleanliness	
		Check the flue gas pipe cleanliness	
		Check the tightness of boiler, flue gas pipe and chimney	
		Check the door tightness	
Gas smell	Gas supply circuit	Check sealing, possible obstructions, combustion quality	
Frequent safety valve triggering	Excessive pressure in the system circuit	Check load pressure	
		Check pressure regulator	
	Malfunction of the system expansion vessel	Check calibration	
		Check the efficiency	

ENVIRONMENTAL PROTECTION AND DISPOSAL

Protection and respect for the environment is a fundamental principle for **ICI CALDAIE S.p.A.**. The quality of products, lower costs and protection of the environment are of equal importance for the company. **ICI CALDAIE S.p.A.**, also through ISO 14001 certification, strictly adheres to European laws and standards for the protection and preservation of the environment. In order to reduce its impact on the environment, the company uses the best technology and materials in its production processes and always considers their economic impact. System for 24 or 72 h operation without continuous supervision.



INFORMATION FOR THE DISPOSAL OF ELECTRICAL AND ELECTRONIC EQUIPMENT



IMPORTANT

This product contains electrical and electronic equipment which cannot be disposed of through the normal means of municipal waste collection. There are separate collection centres for these products. Electrical and electronic equipment must be treated separately and in compliance with the laws in force in the respective Country.

5 *Useful information and declarations*

QR CODE

How to register your appliance



The appliance must be registered once the product has been installed, either before or after start-up.

Follow these steps:

- Obtain a smartphone (iPhone, Samsung Galaxy, Htc, Blackberry etc.) or a tablet
- after downloading and installing a "QR Reader" application (any free application is usually more than enough), open it and point the camera on the QR code located on the plate of your appliance (circled in the image)
- you will be sent back to a web page on which to register the data of your appliance and system by completing the indicated spaces.

Once registered, authenticate your e-mail address by clicking on the link that will be sent by e-mail to the provided inbox.

Then an additional e-mail will be received with the credentials to access all the services that **ICI CALDAIE S.p.A.** has developed specifically for those who will register its Boiler through the QR Code.

Registration entitles you, even in future months and years, to take advantage of promotions and specific services for registered appliances (e.g.: discounts on spare parts, spare parts kits on sale, free routine maintenance for certain types of products, etc.).

For info: assistenza@icicaldaie.com o **+39 0458738573**

DECLARATION OF CONFORMITY



alta tecnologia del calore

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C.C.I.A.A. VR n. 69600

Appartenente al Gruppo Finluc
Iscritto R.I. VR 02245640236

DECLARATION OF CONFORMITY WITH THE EUROPEAN COMMUNITY REGULATIONS

I undersigned Emanuela Lucchini, Managing Director of ICI CALDAIE S.p.A. headquartered in via G. Pascoli 38 – 37059 Campagnola di Zevio (VR) Italia.

DECLARE THAT BOILERS MONOLITE GT

comply with the CE certificate and in accordance with the boards regulations:

- European Regulation on Gas Equipment GAR 2016/426/EU
- Low Voltage Directive 2014/35/UE
- Efficiency Directive 92/42/CEE
- EMC Directive 2014/30/UE

S. Maria di Zevio, li 07/02/2018

ICI CALDAIE S.p.A.
Direttore Generale
Emanuela Lucchini

A handwritten signature in black ink, appearing to read 'Emanuela Lucchini', is written over the printed name.



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