

EXPORT CATALOGUE



ITALTHERM

ITALIAN TECHNOLOGY | ITALIAN DESIGN | ITALIAN QUALITY



MADE IN ITALY



Design

ITALTHERM cares about its product aesthetics. Since 2017 we have been cooperating with the worldwide famous designer Giorgetto Giugiaro, founder of Italdesign Company and creator of the look of the new Italthem “City” range boilers.



Made in Emilia Romagna

The company is located in Piacenza, Emilia Romagna region.

Manufacturing sector is the region’s key strength. Innovation and entrepreneurship spirit are the strong drivers of the region’s prosperity, with roots in its 2000 years long history.



100% tested and verified products

All Italthem products, before being placed on the market, must pass a series of tests and checks. These tests are carried out on 100% of the production, so as to guarantee maximum reliability and quality.



Quality components

Only the best components are used to manufacture Italthem gas boilers. In order to ensure the maximum quality and reliability, we have not only established a long term relationship with a selected number of Italian and European suppliers but we keep on using made to last and resistant materials, such as brass on hydraulic groups and stainless steel on heat exchangers.

#italtherminnovation



Modulation range higher than 1:20

Italtherm is the first company that has developed a 35 kW condensing boiler with a modulation range higher than 1:20, able to adapt to the actual heat requirement of the plant.



ICS

Italtherm condensing boilers are equipped with ICS - Intelligent Combustion System - a technology that makes the boilers smart, able to control, regulate and adapt independently. The ICS system allows the boiler to work with all types of gas: it checks combustion values and regulates gas flow so as to always have the correct air / gas ratio.



Remote control APP

Italtherm gas boilers can be controlled remotely by app.

This allows users to act in real time on the system: they can turn the appliances on or off, modify home temperatures and verify the correct functioning of the entire system.

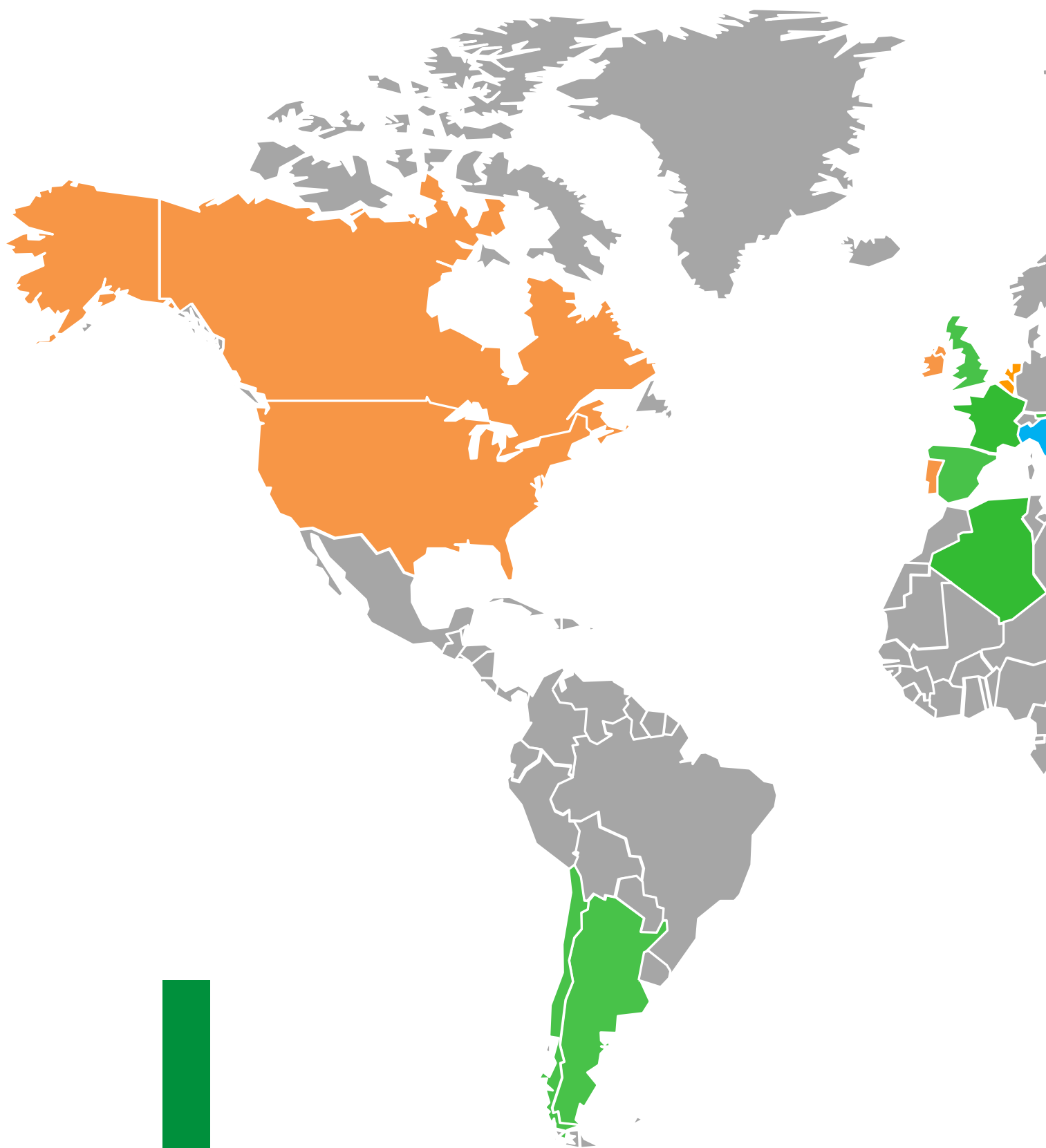
ITALTHERM HEADQUARTERS



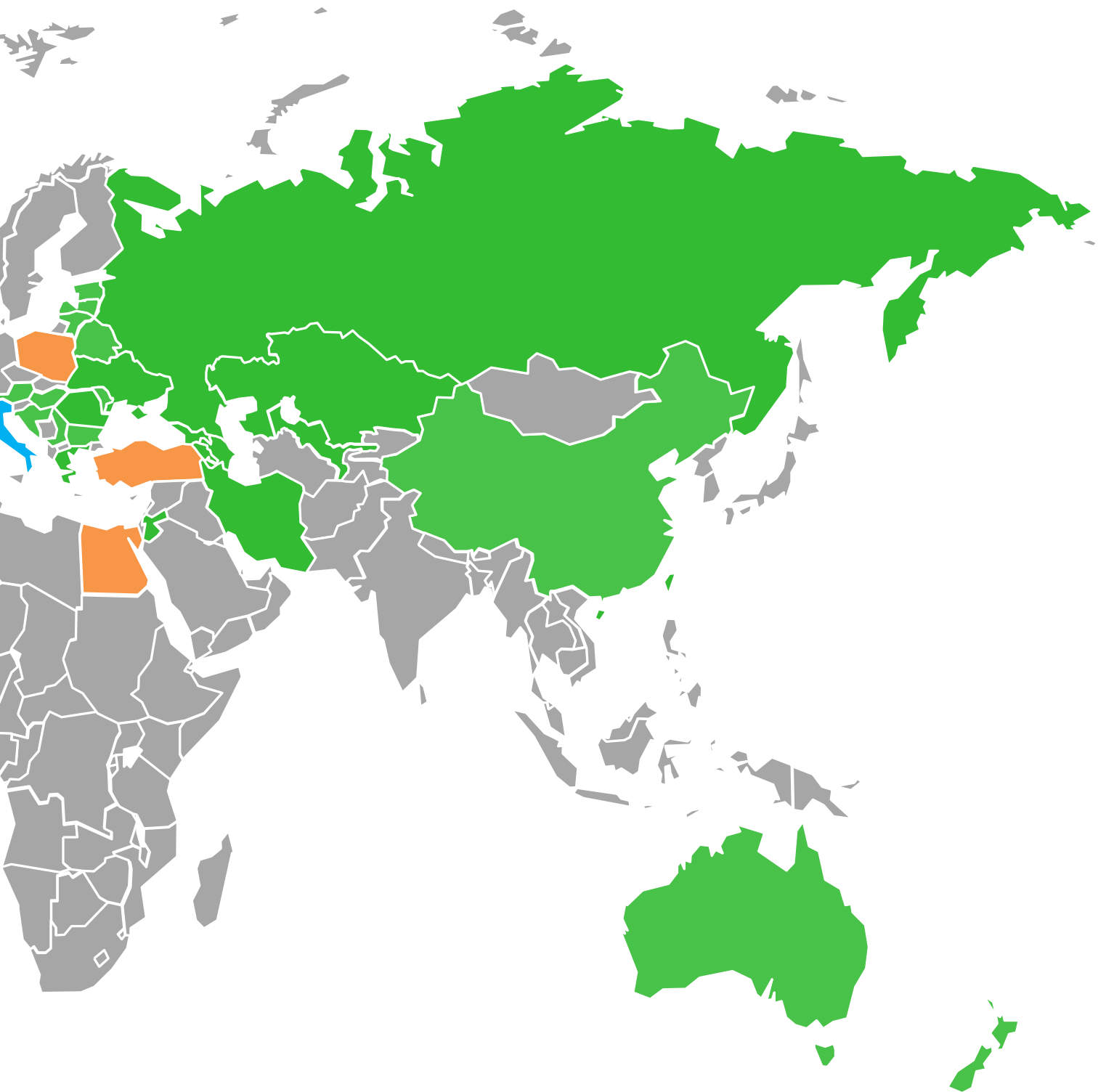


Rooted and developed in Italy, ITALTHERM is a worldwide known company, manufacturing a complete range of GAS BOILERS, reliable and cost-saving for residential buildings.

STRATEGIC DEVELOPMENT OF ITALTHERM ON WO



WORLD MARKETS

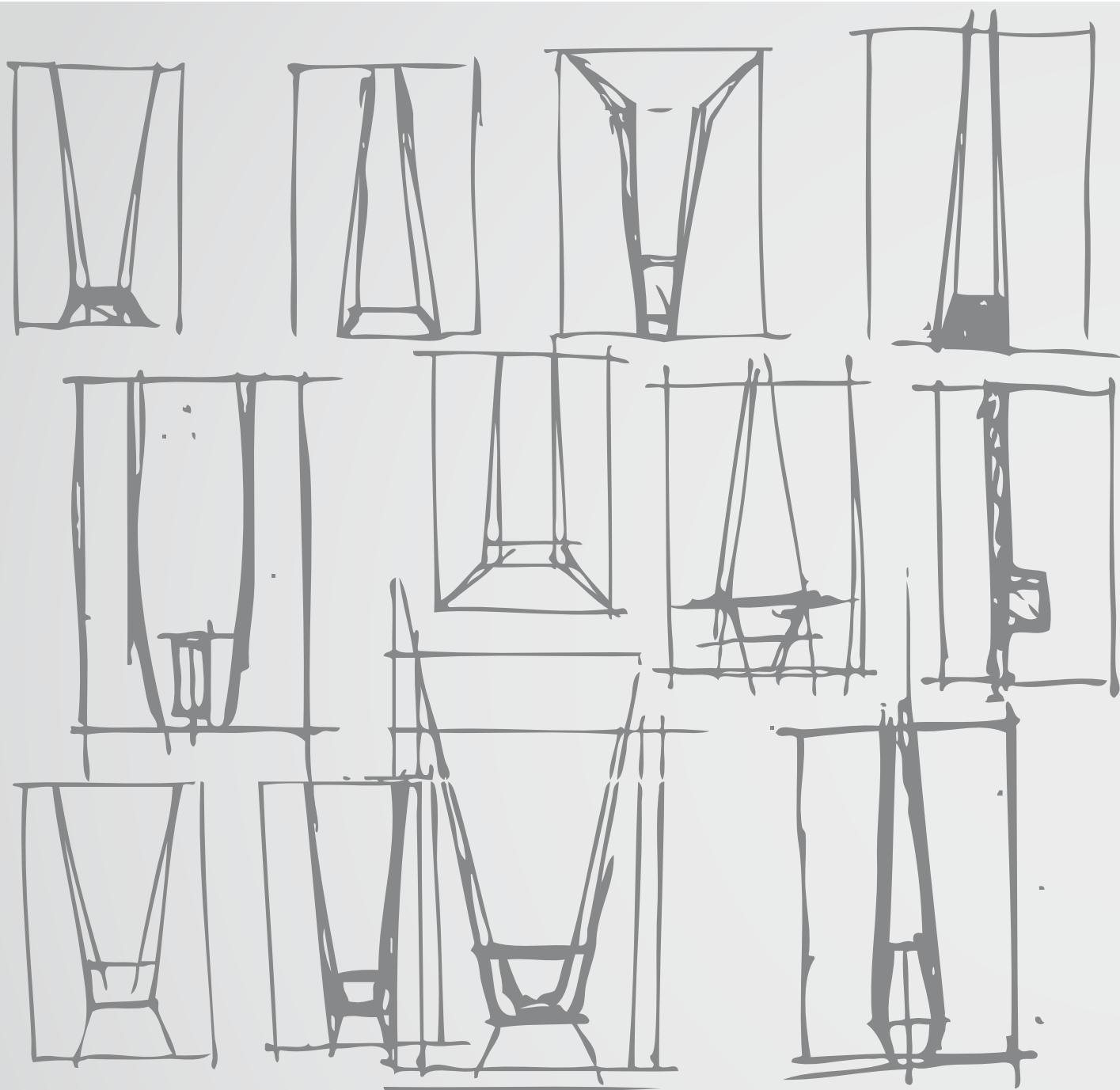


Italian market

Italtherm export markets

New potential markets under negotiation

TAILORED SOLUTIONS



CE

0 4 7 6



M 048 18



EAC

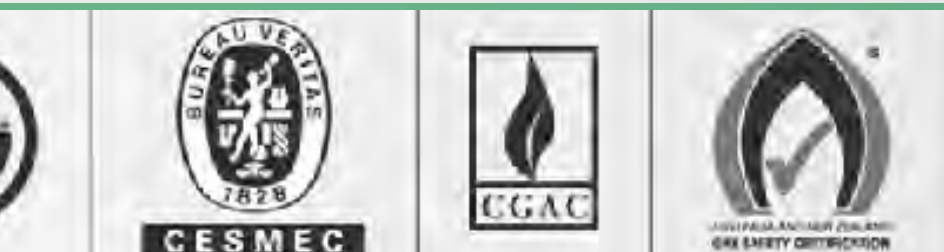


Great spirit of innovation and particular attention to details define OEM gas boilers by Italtherm as main point of reference in Italian production both in terms of know-how and customer relationships.

Thanks to our flexibility and expertise, gained in the past 50 years of activity, Italtherm guarantees a completely tailor-made solution starting from design, project development up to marketing strategy for the growth of the product in every market. This is the core business of our production of OEM gas boilers: original Italian manufacture and total customization. An efficient manufacturing system, strict testing procedures, high performance level of its products with all the import-export certifications, logistics, sales and after sales support make Italtherm the strategic partner worldwide.

Italtherm is able to give a wide range of B2B services, such as:

- Products research & development
- Products design & customization
- Products prototypes and development homologation
- Production
- Training and technical education
- After sales support



Traditional boilers

12

Condensing boilers < 35 kW

28

High Power boilers

62



Condensing boiler



Low NOx emission



Cascade configuration



Heating



Natural draught



Built in storage tank



Instant domestic hot water



Forced draught



Chimney flue



Storage tank



Boiler encasing



Outdoor boilers



Wall-hung boiler



Modulation ratio

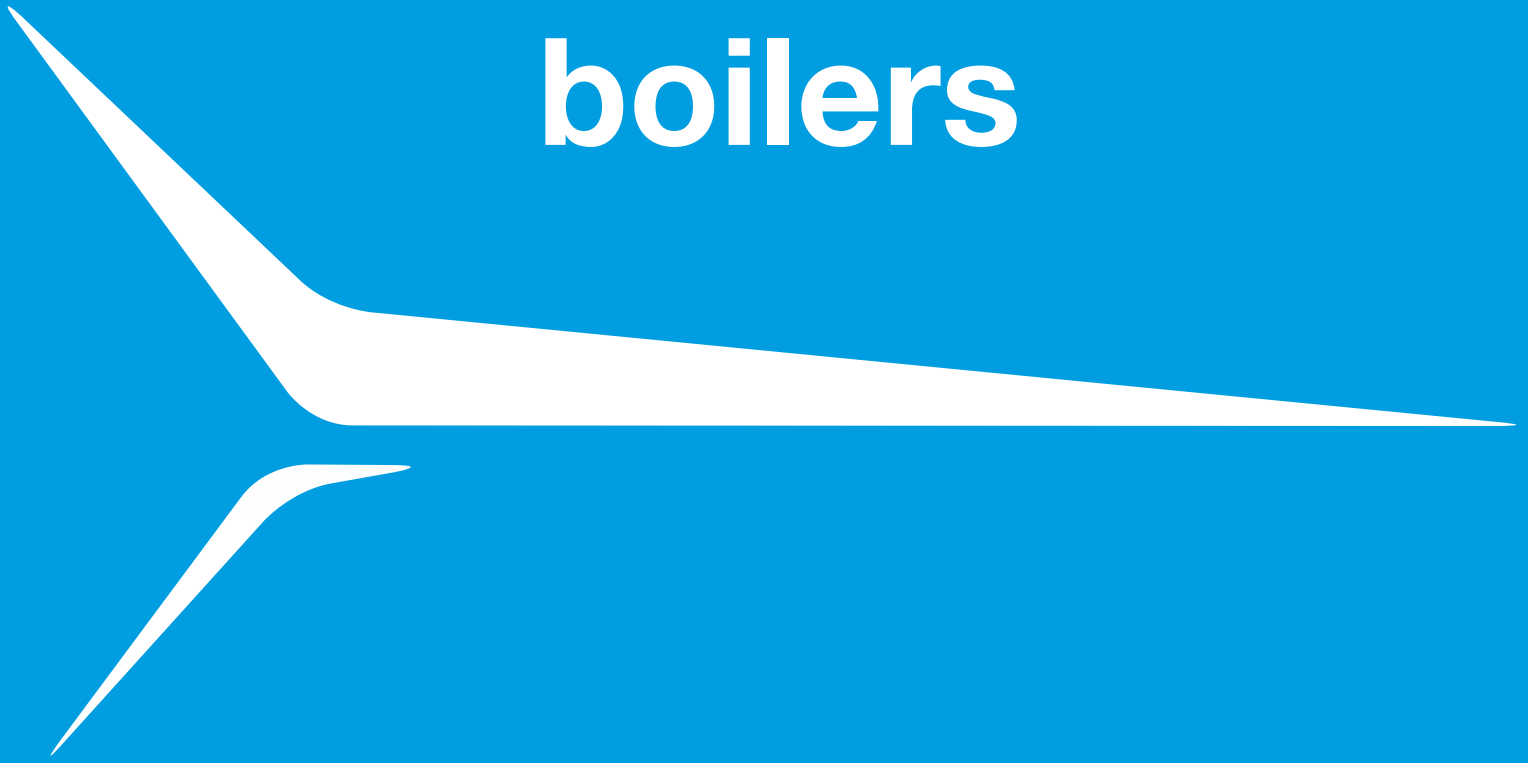


Indoor boilers



Floor-standing boiler

Traditional boilers





Page

Traditional boilers

City Class 24 C NOx • 28 C NOx		✓	✓	✓		✓	14
City Class 24 C • 28 C	✓	✓	✓	✓			15
City Class 20 F • 25 F • 30 F • 35 F	✓		✓	✓	✓		16
City Class 20 FR•25 FR•30 FR•35 FR	✓		✓	✓		✓	17
Time Max 24 F • 30 F	✓			✓	✓	✓	18

Flue systems

Concentric Ø 60/100 mm systems	20
Split Ø 80 / 60 mm systems	21

Accessories

Gas conversion kits	24
Connection and fitting kits	25
Accessories for thermoregulation	27

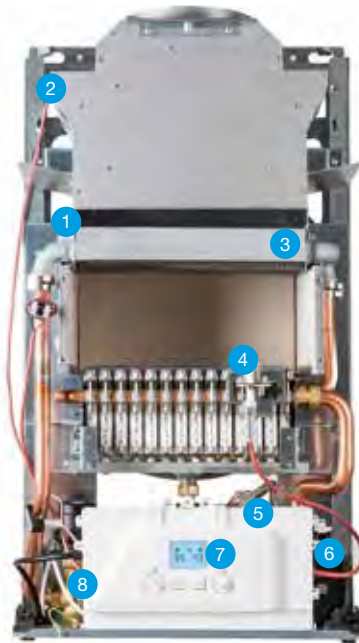
Legend:



Qn = nominal heat input in CH • **Qnw** = nominal heat input in DHW • **η30** = useful efficiency at 30% of the heat input * The appliance is factory-set for G20 and can be set up for Commercial Propane G31 without replacement of internal items** With boiler working in condensation return 30 °C. *** With boiler working in condensation (system flow 50°C; system return 30°C)

City Class C NOx

24 C 28 C



CH and instant DHW production, with low emission burner

- 1 Expansion vessel 8L
 - 2 Fumes safety thermostat
 - 3 Copper main exchanger
 - 4 Low emission burner
 - 5 Stainless steel plate to plate DHW exchanger
 - 6 High quality modulating pump
 - 7 ITS (Intelligent Temperature System)
 - 8 Brass hydraulic group
- 6 NOx Class in accordance with UNI EN15502-1

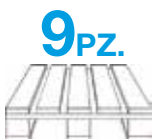


*1/2" when original template and hydraulic fitting kit are used

Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	Qnw (kW)	η_{30} at Qn (%) **	Flow rate ΔT 25°C (l/min)	Energy efficiency class	
City Class 24 C NOx	400 x 700 x 324	28	26,5 / 10	26,5	90,6	13,7	C	XL - B
City Class 28 C NOx		28,6	29,5 / 11	29,5	91,4	15,2	C	XL - B

ACCESSORIES for the list and all compatibility models, see "Accessories" on page 19

Description	Code	Page	Note
Magnetic dirt separator kit	401010041	26	
Outdoor temperature sensor kit	401060001	27	
Hydraulic fitting kit for City Class	401010037	20	
Solar kit with fittings for City Class/Open	401090008	25	As alternative to the hydraulic fitting kit
Metal template	401020019	20	
Grid kit covering fittings	401010043	26	
Grid kit covering fittings for dirt separator	401010044	26	
Kit Italtherm Net APP	401080018		must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator
Remote control with climatic regulator	401080010	27	





CH and instant DHW production

- 1 Expansion vessel 8L
- 2 Fumes safety thermostat
- 3 Copper main exchanger
- 4 Electric three way valve
- 5 Brass hydraulic group
- 6 ITS (Intelligent Temperature System)
- 7 High quality circulating pump
- 8 Stainless steel plate to plate DHW exchanger



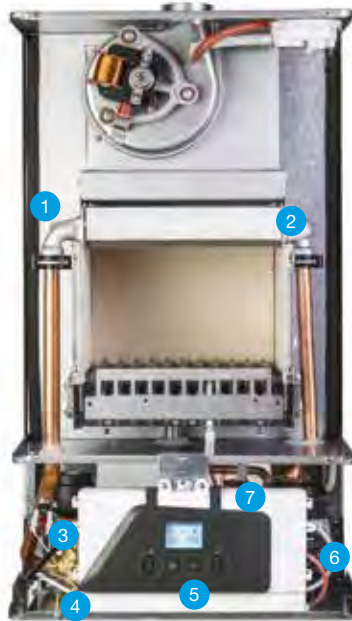
*1/2" when original template and hydraulic fitting kit are used

Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	Qnw (kW)	η_{30} at Qn (%) **	Flow rate $\Delta T 25^\circ\text{C}$ (l/min)
City Class 24 C	400 x 700 x 324	27	25.7 /10	25.7	88.9	13,3
City Class 28 C		27.6	28.3/12	28.3	88.6	14.6

ACCESSORIES for the list and all compatibility models, see "Accessories" on page 19

Description	Code	Page	Note
Magnetic dirt separator kit	401010041	26	
Outdoor temperature sensor kit	401060001	27	
Hydraulic fitting kit for City Class	401010037	20	
Solar kit with fittings for City Class/Open	401090008	25	As alternative to the hydraulic fitting kit
Metal template	401020019	20	
Grid kit covering fittings	401010043	26	
Grid kit covering fittings for dirt separator	401010044	26	
Kit Italtherm Net APP	401080018		must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator
Remote control with climatic regulator	401080010	27	





CH and instant DHW production

- 1 Expansion vessel 8L
- 2 Copper main exchanger
- 3 Electric three way valve
- 4 Brass hydraulic group
- 5 ITS (Intelligent Temperature System)
- 6 High quality circulating pump
- 7 Stainless steel plate to plate DHW exchanger

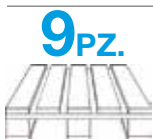


*1/2" when original template and hydraulic fitting kit are used

Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	Qnw (kW)	η_{30} at Qn (%) **	Flow rate $\Delta T 25^\circ\text{C}$ (l/min)
City Class 20 F	400 x 700 x 324	30.4	21 / 9,5	21	90,5	11,2
City Class 25 F		30.6	25,7 / 10	25,7	91	13,7
City Class 30 F		31.6	30 / 12	30	91,5	16
City Class 35 F		35.8	34,5 / 13,6	34,5	92	18,6

ACCESSORIES for the list and all compatibility models, see "Accessories" on page 19

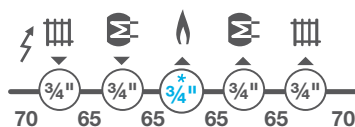
Description	Code	Page	Note
Magnetic dirt separator kit	401010041	26	
Outdoor temperature sensor kit	401060001	27	
Hydraulic fitting kit for City Class	401010037	20	
Solar kit with fittings for City Class/Open	401090008	25	As alternative to the hydraulic fitting kit
Metal template	401020019	20	
Grid kit covering fittings	401010043	26	
Grid kit covering fittings for dirt separator	401010044	26	
Kit Italtherm Net APP	401080018		must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator
Remote control with climatic regulator	401080010	27	





CH and instant DHW production with external storage tank

- 1 Expansion vessel 8L
- 2 Copper main exchanger
- 3 Electric three way valve
- 4 Brass hydraulic group
- 5 ITS (Intelligent Temperature System)
- 6 High quality circulating pump

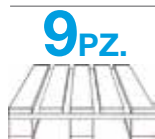


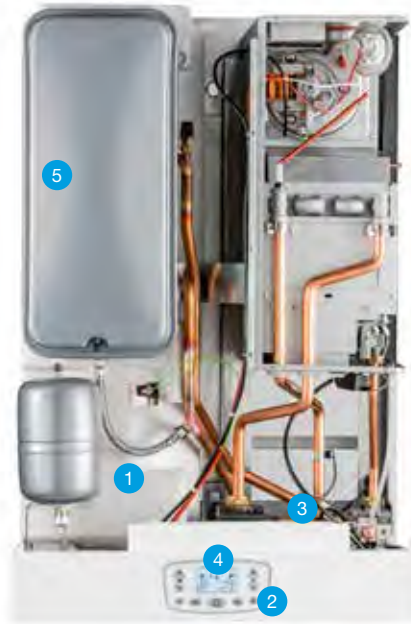
*1/2" when original template and hydraulic fitting kit are used

Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	Qnw (kW)	η30 at Qn (%) **
City Class 20 FR	400 x 700 x 324	27.5	21 / 9,5	21	90,5
City Class 25 FR		30.2	25,7 / 10	25,7	91
City Class 30 FR		30.8	30 / 12	30	91,5
City Class 35 FR		34,56	34,5 / 13,6	34,5	92

ACCESSORIES for the list and all compatibility models, see "Accessories" on page 19

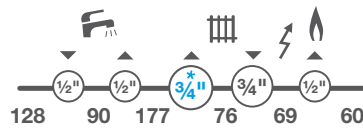
Description	Code	Page	Note
Magnetic dirt separator kit	401010041	26	
Outdoor temperature sensor kit	401060001	27	
Hydraulic fitting kit for City Class	401010039	20	
Metal template	401020021	20	
Grid kit covering fittings	401010043	26	
Grid kit covering fittings for dirt separator	401010044	26	
External tank probe kit	401139002		
Kit Italtherm Net APP	401080018		must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator
Remote control with climatic regulator	401080010	27	





CH and DHW production with built-in 60l storage tank

- 1 Stainless steel DHW 60L storage tank
- 2 Programmable time setting for DHW storage tank preparation
- 3 Brass hydraulic group
- 4 Automatic filling valve
- 5 Multifunction control system: more than 40 configurable parameters to optimize adaptation to any plant
- 6 Expansion vessel 10L
- 7 Automatic by-pass



*1/2" when original template and hydraulic fitting kit are used

Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	Qnw (kW)	η_{30} at Qn (%) **	Flow rate $\Delta T 25^\circ\text{C}$ (l/min)
Time Max 24 F	600 x 900 x 425	60	25,7 / 10,3	25,7	91,7	15
Time Max 30 F		60,5	32 / 13	32	90,6	16,5











ACCESSORIES for the list and all compatibility models, see "Accessories" on page 19

Description	Code	Page	Note
Magnetic dirt separator kit	401010041	26	
Hydraulic fitting kit	401010003	25	
Universal hydraulic fitting kit	401010023	25	
Metal template	401020003	20	
Flue accessories	-	19	
Remote Control with climatic regulator	401080001	27	In multi zones system, it requires the CH multi zones interface PCB
Outdoor temperature sensor kit	401060001	27	
CH multi zones interface PCB	401110001	27	Required only if the Remote Control cod. 401080001 is installed

Flue systems



Concentric Ø 60/100 mm systems

Description		City Class C	City Class C NOx	City Class F	City Class FR	Time Max F
401000001 Concentric flue kit inlet + outlet Ø 60 mm / 100 mm				✓	✓	✓
401005001 Concentric flue kit inlet + outlet Ø 60 mm / 100 mm no brand version				✓	✓	✓
401005002 Concentric flue kit inlet + outlet Ø 60 mm / 100 mm anti-freeze version				✓	✓	✓
401000002 Concentric flue kit inlet + outlet, raised Ø 60 mm / 100 mm				✓	✓	✓
401000004 Concentric vertical connection kit, flanged Ø 60 mm / 100 mm				✓	✓	✓
401000003 Concentric flue extension m/f Ø 60 mm / 100 mm L = 1000 mm				✓	✓	✓
401000007 Concentric f/f connection kit Ø 60 mm / 100 mm				✓	✓	✓
401000005 Concentric 90° bend m/f kit Ø 60 mm / 100 mm				✓	✓	✓
401000006 Concentric 45° bend m/f kit Ø 60 mm / 100 mm				✓	✓	✓
401000009 Sloped roof tile kit				✓	✓	✓
401000008 Concentric vertical flue kit inlet + outlet Ø 60 mm / 100 mm				✓	✓	✓

WARNING! Do NOT use flue components suitable for traditional combustion boilers on condensing boilers, and vice-versa.

Split Ø 80 mm systems

Description	City Class C	City Class C NOx	City Class F	City Class FR	Time Max F
401005009 Split system Kit inlet + outlet with splitter Ø 80 mm / 80 mm only for City Class version			✓	✓	
401001003 Split system Kit inlet + outlet Ø 80 mm / 80 mm only for Time version					✓
401001004 Split system Kit inlet + outlet Ø 80 mm / 80 mm					✓
401001006 Extension m/f kit L = 2000 mm Ø 80 mm			✓	✓	✓
401001007 Extension m/f kit L = 1000 mm Ø 80 mm			✓	✓	✓
401001005 Extension m/f kit L = 500 mm Ø 80 mm			✓	✓	✓
401001008 Bend kit m/f 90° Ø 80 mm			✓	✓	✓
401001009 Bend kit f/f 90° Ø 80 mm			✓	✓	✓
401001010 Bend kit m/f 45° Ø 80 mm			✓	✓	✓

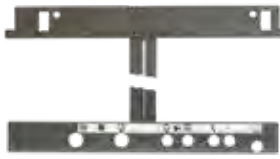
Split Ø 80 mm systems

Description	City Class C	City Class C NOx	City Class F	City Class FR	Time Max F
401001012 Splitter Ø 80 mm / 80 mm			✓	✓	✓
401001011 Condense trap kit with vertical stud m/f Ø 80 mm			✓	✓	✓
401005008 Grid kit Ø 80 mm			✓	✓	✓

Accessories



Metal template and Gas conversion kits



	City Class C NOx	City Class C	City Class F	City Class FR	Time Max F
--	------------------	--------------	--------------	---------------	------------



401020019 Metal template	✓	✓	✓		
401020021 Metal template				✓	
401020003 Metal template					✓

Gas conversion kit



401045002 G30/31 401045001 G20	✓ 24C NOx				
401045004 G30/31 401045003 G20	✓ 28C NOx				
401040075 G30/31 401040120 G20					✓ 24F
401040078 G30/31 401040130 G20			✓ 20-25-35F	✓ 20-25-35FR	✓ 28F
401040077 G30/31 401040130 G20			✓ 30F	✓ 30FR	
401040073 G30/31 401040125 G20		✓ 24C			
401040075 G30/31 401040125 G20		✓ 28C			

G30/G31 means Nat.Gas to LPG - G20 means from LPG to Nat.Gas


Connection and fitting kits

Connection and fitting kits	City Class C NOx	City Class C	City Class F	City Class FR	Time Max F
<p>401010023 Universal hydraulic fitting kit <i>(stainless steel flexible pipes)</i></p> 	✓	✓	✓	✓	✓
<p>401010024 Nr. 2 valves kit 3/4" m/f <i>To close system flow and return. Compatible with specific and universal fitting kits</i></p> 	✓	✓	✓	✓	✓
<p>401010037 Hydraulic fitting kit <i>City Class C NOx - City Class C-F</i></p>	✓	✓	✓		
<p>401010039 Hydraulic fitting kit <i>City Class FR</i></p>				✓	
<p>401010003 Hydraulic fitting kit <i>Time max F</i></p>					✓
<p>401090008 Solar kit with fittings <i>City Class C NOx</i></p>	✓				


Kits

	City Class C NOx	City Class C	City Class F	City Class FR	Time Max F
Grid kit covering fittings 401010043 Grid kit covering fittings WxHxD: 367 x 51x194 mm 	✓	✓	✓	✓	
Grid kit covering fittings for dirt separator 401010044 Grid kit covering fittings for dirt separator WxHxD: 367 x 167x268.5mm 	✓	✓	✓	✓	






Dirt Separator

401010041 Magnetic dirt separator kit 	✓	✓	✓	✓	✓
--	---	---	---	---	---

Protective liquids for CH plants

	New Plant		Existing Plant	
	cleaning	protection	cleaning	protection
401150006 5 liter tank 		✓		✓
401150007 5 liter tank			✓	
401150008 5 liter tank	✓			

Accessories for thermoregulation

		City Class C NOx	City Class C	City Class F	City Class FR	Time Max F
401080018 Kit Italtherm Net APP Required with the Remote Control cod. 401080001		✓	✓	✓	✓	✓
401080010 Remote control with climatic regulator english version 401080020 french/spanish version		✓	✓	✓	✓	✓
401060001 Outdoor temperature sensor kit		✓	✓	✓	✓	✓
Weekly room thermostat 401080002 wired version 401080004 wired version with GSM control 401080005 wireless version		✓	✓	✓	✓	✓
401110001 CH multi zones interface PCB <i>Required only if the Remote control cod. 401080001 is installed</i>						✓
401139002 Temperature sensor kit for external storage <i>For "KR" models only, as they are preset to be connected to a remote storage unit</i>					✓	

Condensing boilers < 35 kW





Page

Gas boilers < 35 kW

City Top 25 K • 35 K	1:20	✓	✓		✓			31
City Class 25 K • 30 K • 35 K	1:10	✓	✓		✓			32
City Class 25 KR • 30 KR* • 35 KR	1:10	✓			✓	✓		33
City Open 25 K • 35 K	1:10	✓	✓				✓	34
City Box 25 K • 35 K	1:10	✓	✓				✓	35
Time Micro 27 K • 35 K	1:10	✓	✓		✓			36
Time Max 27 K • 35 K	1:10	✓		✓	✓			37
Time Compact 35 K	1:10	✓		✓	✓			38
Time Solar 18 K • 35 K	1:10	✓		✓	✓			39
Zones kit								41

 *for EXTRA-EU MARKETS only

Flue systems

Concentric Ø 60/100 mm systems	42	43
Split Ø 80 / 60 / 50 mm systems	44	
Hose Ø 80 / 60 / 50 mm	45	

Accessories

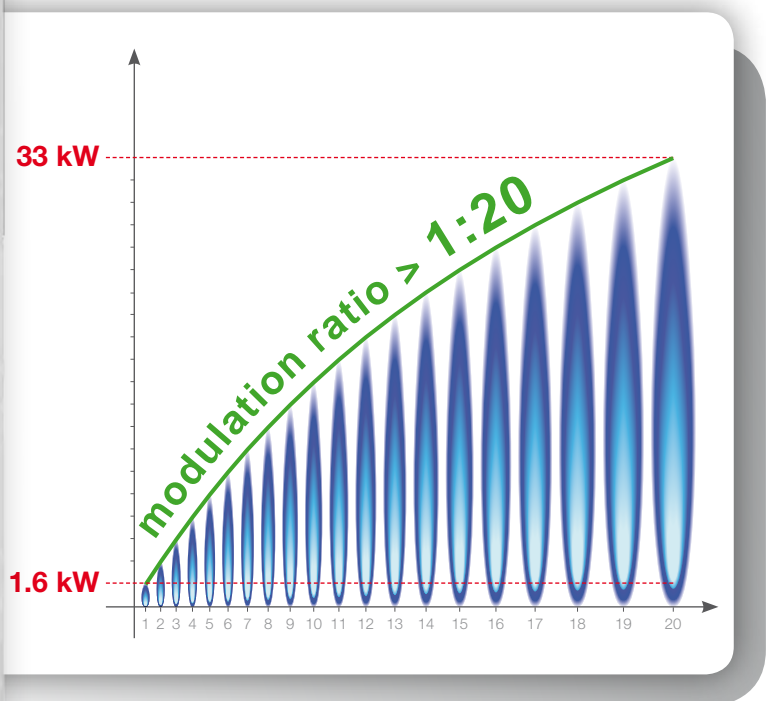
Metal template	49
Gas Conversion kits	49
Connection and fitting kits	52
Accessories for solar systems	53
Grid kit covering fittings - Dirt separator - DHW recirculation kit	54
Accessories for thermoregulation	55

Legend:

	Condensing boiler		Modulation ratio		Heating		Domestic Hot Water		Built in storage tank		Storage tank		Indoor		Outdoor
	Boiler encasing	<p>Q_n = nominal heat input in heating • Q_{nw} = nominal heat input in DHW • η₃₀ = useful efficiency at 30% of the heat input * The appliance is factory-set for G20 and can be set up for Commercial Propane G31 without replacement of internal items** With boiler working in condensation return 30 °C. *** With boiler working in condensation (system flow 50°C; system return 30°C)</p>													

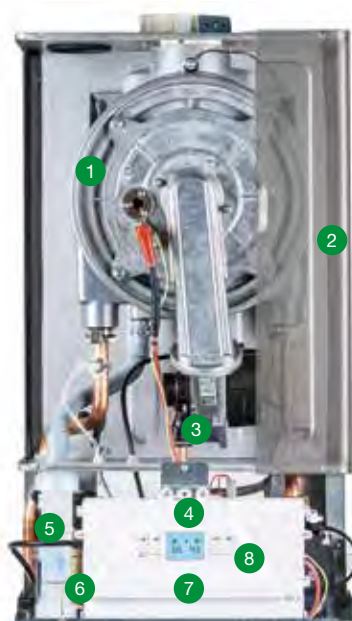
CITY TOP

THE NEW MARKET BENCHMARK



The new market benchmark for technology and efficiency

- 1 Condensing stainless steel heat exchanger with extra wide water passages
- 2 Double sealed chamber
- 3 **Modulation ratio 1:20** (35 K version)
- 4 Smart adaptive gas valve
- 5 Condense siphon
- 6 Brass hydraulic group
- 7 ICS (Intelligent Combustion System) it guarantees a perfect combustion in all conditions
- 8 Plus button: always available DHW
- 20-plates insulated maxi exchanger for DHW
- Automatic filling valve
- 6 NOx Class in accordance with UNI EN15502-1



*1/2" when original template and hydraulic fitting kit are used

Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	Qnw (kW)	η_{30} at Qn (%) **	Flow rate ΔT 25°C (l/min)	Energy efficiency class	
City Top 25 K	400 x 700 x 324	35	25 / 1,6	25	107	14	A	XL-A
City Top 35 K		35,2	33 / 1,6	34.9	108	20	A	XL-A

ACCESSORIES see "Accessories" from page 50 for further optional accessories

Description	Code	Page	Notes
Magnetic dirt separator kit	401010041	54	
Outdoor temperature sensor kit	401060001	56	
Hydraulic fitting kit	401010037	52	
Metal template	401020019	49	
Solar kit with fittings for City Class/Open	401090008	53	as alternative to the hydraulic fitting kit
Grid kit covering fittings	401010043	54	
Grid kit covering fittings for dirt separator	401010044	54	
Remote control with climatic regulator	401080010	56	
Italtherm Net APP kit	401080018	58	must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator





CH and instant DHW with premix burner, suitable for high working temperatures.

- 1 Possibility of discharge Ø 50 mm, rigid and flexible (up to 40 m for 25K version)
- 2 Condensing stainless steel heat exchanger with extra wide water passages
- 3 Modulation ratio 1:10
- 4 Smart adaptive gas valve
- 5 Condense siphon
- 6 Brass hydraulic group
- 7 ICS (Intelligent Combustion System) it guarantees a perfect combustion in all conditions
- 6 NOx Class in accordance with UNI EN15502-1



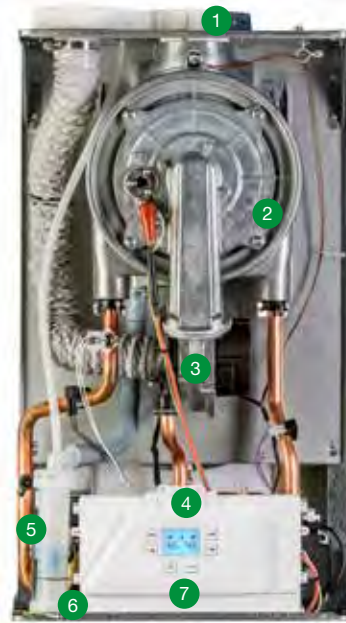
*1/2" when original template and hydraulic fitting kit are used

Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	Qnw (kW)	η30 at Qn (%) **	Flow rate ΔT 25°C (l/min)	Energy efficiency class	
							Grid	XL
City Class 25 K	400 x 700 x 324	28,4	20 / 2,5	25	106,4	14,8	A	XL - A
City Class 30 K		30,2	24 / 3	30	106	17,0	A	XL - A
City Class 35 K		34,2	28 / 3,5	33,2	106,7	18,7	A	XXL - B

ACCESSORIES *see "Accessories" from page 50 for further optional accessories*

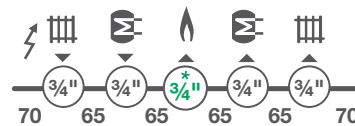
Description	Code	Page	Notes
Magnetic dirt separator kit	401010041	54	
Outdoor temperature sensor kit	401060001	56	
Hydraulic fitting kit	401010037	52	
Metal template	401020019	49	
Solar kit with fittings for City Class/Open	401090008	53	as an alternative to the hydraulic fitting kit
Grid kit covering fittings	401010043	54	
Grid kit covering fittings for dirt separator	401010044	54	
Remote control with climatic regulator	401080010	56	
Italtherm Net APP kit	401080018	58	must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator





CH and DHW with external storage tank and premix burner, suitable for high working temperatures.

- 1 Possibility of discharge Ø 50 mm, rigid and flexible (up to 40 m for 25KR version)
- 2 Condensing stainless steel heat exchanger with extra wide water passages
- 3 Modulation ratio 1:10
- 4 Smart adaptive gas valve
- 5 Condense siphon
- 6 Brass hydraulic group
- 7 ICS (Intelligent Combustion System) it guarantees a perfect combustion in all conditions
- 6 NOx Class in accordance with UNI EN15502-1

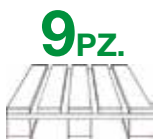


*3/4" when original template and hydraulic fitting kit are used

Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	Qnw (kW)	η30 at Qn (%) **	Energy efficiency class III
City Class 25 KR	400 x 700 x 324	26,5	20 / 2,5	25	106,4	A
City Class 30 KR		30,2	24 / 3	30	106	A
City Class 35 KR		30,3	28 / 3,5	33,2	106,7	A

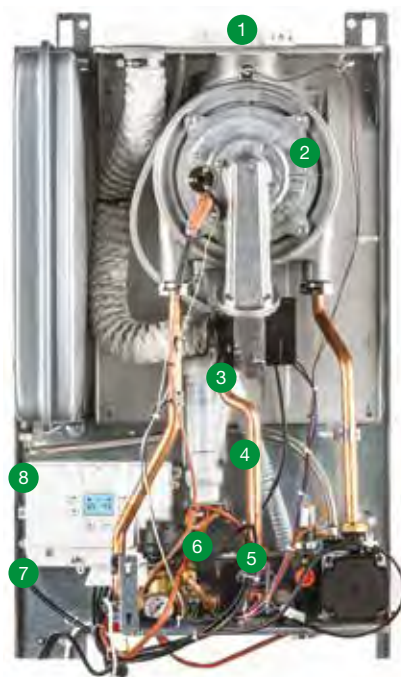
ACCESSORIES see "Accessories" from page 50 for further optional accessories

Description	Code	Page	Notes
Magnetic dirt separator kit	401010041	54	
Outdoor temperature sensor kit	401060001	56	
Hydraulic fitting kit City Class KR	401010039	52	
Metal template	401020021	49	
Grid kit covering fittings	401010043	53	
Grid kit covering fittings for dirt separator	401010044	54	
Remote control with climatic regulator	401080010	56	
Italtherm Net APP kit	401080018	58	must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator
Temperature sensor kit for external storage	401139002	57	



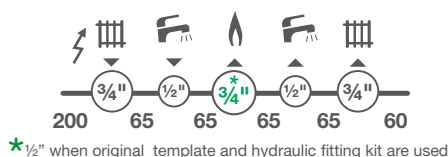


Intelligent remote control included



CH and instant DHW with premix burner, outdoor appliance

- 1 Possibility of discharge Ø 50 mm, rigid and flexible (up to 40 m for 25K version)
- 2 Condensing stainless steel heat exchanger with extra wide water passages
- 3 Modulation ratio 1:10
- 4 Antifreeze protection -10°C
- 5 Smart adaptive gas valve
- 6 Automatic filling valve
- 7 ICS (Intelligent Combustion System) it guarantees a perfect combustion in all conditions
- 8 **Control panel inside the boiler (for service)**
- 6 NOx Class in accordance with UNI EN15502-1
- Intelligent remote control as standard



Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	η_{30} at Qn (%) **	Flow rate ΔT 25°C (l/min)	Energy efficiency class	
						III	F _m
City Open 25 K	520 x 850 x 240	34	20 / 2,5	106,4	14,8	A	XL - A
City Open 35 K		39,8	28 / 3,5	106,7	18,7	A	XXL - B

ACCESSORIES see "Accessories" from page 50 for further optional accessories

Description	Code	Page	Notes
Magnetic dirt separator kit	401010041	54	
Outdoor temperature sensor kit	401060001	56	
Hydraulic fitting kit	401010037	52	
Metal template	401020023	49	
Solar kit with fittings for City Class/Open	401090008	53	as an alternative to the hydraulic fitting kit
Anti-freeze kit for solar kit with fittings	401070001	53	
CH multi zones interface PCB	401110004	57	
Italtherm Net APP kit	401080018	58	must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator



City Box K

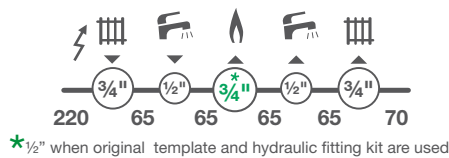
25 K 35 K



Intelligent remote control included

CH and instant DHW with premix burner, encasing appliance

- 1 Possibility of discharge Ø 50 mm, rigid and flexible (up to 40 m for 25K version)
- 2 Condensing stainless steel heat exchanger with extra wide water passages
- 3 Modulation ratio 1:10
- 4 Antifreeze protection -10°C
- 5 Smart adaptive gas valve
- 6 Automatic filling valve
- 7 ICS (Intelligent Combustion System) it guarantees a perfect combustion in all conditions
- 8 **Control panel inside the boiler (for service)**
- 9 Key lock cabinet
- 6 NOx Class in accordance with UNI EN15502-1
- Intelligent remote control as standard



Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	η_{30} at Qn (%) **	Flow rate ΔT 25°C (l/min)	Energy efficiency class	
						III	F _m
City Box 25 K		27,6	20 / 2,5	106,4	14,8	A	XL - A
City Box 35 K		33,4	28 / 3,5	106,7	18,7	A	XXL - B
code							
Encasing box	550 x 1140 x 250	401050006					

ACCESSORIES see "Accessories" from page 50 for further optional accessories

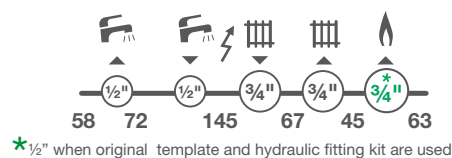
Description	Code	Page	Notes
Magnetic dirt separator kit for City Box 25 K - 35 K	401010047	54	
Outdoor temperature sensor kit	401060001	56	
Hydraulic fitting kit for City Box K	401010005	52	
Solar kit with fittings for City Box 25 K - 35 K	401090010	53	as an alternative to the hydraulic fitting kit
Anti-freeze kit for solar kit with fittings	401070001	53	
CH multi zones interface PCB	401110004	57	
Italtherm Net APP kit	401080018	58	must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator





CH and DHW with micro storage - 4 l capacity

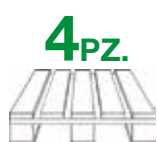
- 1 Condensing stainless steel heat exchanger
- 2 Modulation ratio 1:10
- 3 DHW micro storage - 4 L capacity
- 4 Brass hydraulic group
- 5 Multifunction control system: more than 40 configurable parameters to optimize adaptation to any plant
- 6 Automatic filling valve
- 7 PLUS programmable function, allowing DHW pre-heating at three temperature levels
- 6 NOx Class in accordance with UNI EN15502-1

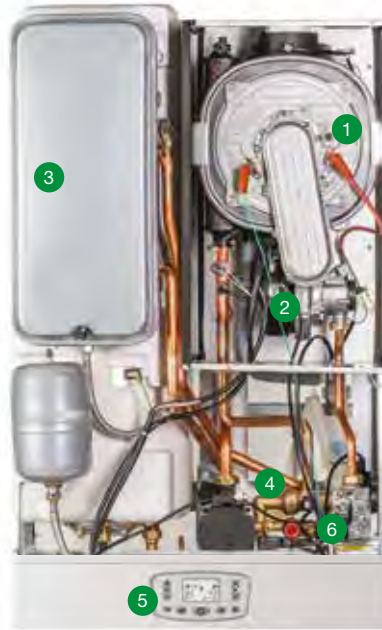


Modello	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	Qnw (kW)	η ₃₀ at Qn (%) **	Flow rate ΔT 25°C (l/min)	Energy efficiency class	
							III	F _m
Time Micro 27 K	450 x 837	45	26 / 2,6	26	107.6	15.6	A	XL-A
Time Micro 35 K	x 400	46.5	33 / 3,4	33	107.6	19.9	A	XL-A

ACCESSORIES see "Accessories" from page 50 for further optional accessories

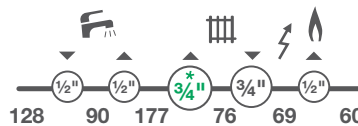
Descrizione	Codice	Pag.	Note
Magnetic dirt separator kit	401010041	54	
Outdoor temperature sensor kit	401060001	56	
Hydraulic fitting kit for K	401010049	52	
Metal template	401020025	51	
Remote control with climatic regulator	401080010	56	
Italtherm Net APP kit	401080018	58	must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator





CH and DHW production with built-in 60L storage tank

- 1 Condensing stainless steel heat exchanger
- 2 Modulation ratio 1:10
- 3 Stainless steel DHW 60L storage tank
- 4 Brass hydraulic group
- 5 Multifunction control system: more than 40 configurable parameters to optimize adaptation to any plant
- 6 Automatic filling valve
- Programmable time setting for DHW storage tank preparation
- 6 NOx Class in accordance with UNI EN15502-1

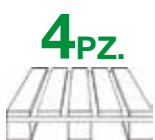


* 1/2" when original template and hydraulic fitting kit are used

Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	Qnw (kW)	η_{30} at Qn (%) ***	Specific flow EN625 (l/min)	Energy efficiency class	
							III	F _{ms}
Time Max 27 K	600 x 900 x 425	59.0	26 / 2,6	26	107.6	16	A	XXL-A
Time Max 35 K		60.0	33 / 3,4	33	107.6	17	A	XXL-A

ACCESSORIES *see "Accessories" from page 50 for further optional accessories*

Description	Code	Page	Notes
Magnetic dirt separator kit	401010041	54	
Outdoor temperature sensor kit	401060001	56	
Hydraulic fitting kit for Time Max	401010003	52	
Metal template	401020003	49	
Remote control with climatic regulator	401080001	56	In multi zones systems, it requires the CH multi zones interface PCB
Italtherm Net APP kit	401080018	58	must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator



Time Compact K **35 K**



Floor-standing condensing boiler, for CH and DHW production, with built-in 120L storage tank

- 1 Condensing stainless steel heat exchanger
- 2 Modulation ratio 1:10
- 3 DHW 120L storage tank
- 4 Brass hydraulic group
- 5 Automatic filling valve
- Programmable time setting for DHW storage tank preparation
- Multifunction control system: more than 40 configurable parameters to optimize adaptation to any plant
- 6 NOx Class in accordance with UNI EN15502-1

Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	η 30 at Qn (%) ***	Specific flow EN625 (l/min)	Energy efficiency class	
						III	F
Time Compact 35 K	600 x 1765 x 600	145	33 / 3,4	107.6	22.7	A	XXL-B

ACCESSORIES *see "Accessories" from page 50 for further optional accessories*

Description	Code	Page	Notes
Outdoor temperature sensor kit	401060001	56	
Hydraulic fitting kit for Time Compact	401010025	52	
DHW recirculation kit for Time Compact	401010026	-	Circulating pump included
Metal template	401020015	49	
Remote control with climatic regulator	401080001	56	In multi zones systems, it requires the CH multi zones interface PCB
Italtherm Net APP kit	401080018	58	must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator

1 Pz.



Time Solar K 18 K 35 K



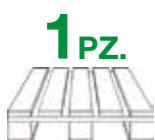
Floor-standing condensing boiler for CH and DHW production, with 200L double-coil storage tank and built-in solar unit

- 1 Condensing stainless steel heat exchanger
- 2 Modulation ratio 1:10
- 3 Double serpentine stainless steel DHW 200L storage tank,
- 4 Brass hydraulic group
- 5 Automatic filling valve
- 6 Integrated solar group, made of:
solar system flow and return connections
solar pump with safety valve
solar thermostatic mixing valve
solar control unit managed directly in the boiler
- Programmable time setting for DHW storage tank preparation
- Multifunction control system: more than 40 configurable parameters to optimize adaptation to any plant
- 6 NOx Class in accordance with UNI EN15502-1

Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	η_{30} at Qn (%) ***	Specific flow EN625 (l/min)	Energy efficiency class	
Time Solar 18 K	600 x 1980 x 750	209	17,8 / 1,7	107.5	22	A	XXL-B
Time Solar 35 K		211	33 / 3,4	107.6	24	A	XXL-B

ACCESSORIES see "Accessories" from page 50 for further optional accessories

Description	Code	Page	Notes
Outdoor temperature sensor kit	401060001	56	
Hydraulic fitting kit for Time Solar	401010029	52	
DHW recirculation kit Time Solar	401010030	-	Circulating pump included
Metal template	401020017	49	
Remote control with climatic regulator	401080001	56	In multi zones systems, it requires the CH multi zones interface PCB
Italtherm Net APP kit	401080018	58	must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator



High Temperature zones kit

1 HT ZONE
2 HT ZONES
3 HT ZONES

- High Efficiency modulating pumps
- Flexible Installation thanks to 10 different pumps heads, settable on each pump.
- Hourly programming for each zone
- Possible external probe for thermoregulation.
- Electric Protection IPX5D
- To be used on plants where high pump heads are needed
- Possible installation on the wall or inside the wall
- Kit includes:
 - Hydraulic balancer
 - Electronic controller
 - Modulating pumps
 - Encasing box



Model	W x H x D (mm)
1 HT zone	450 x 700 x 190
2 HT zones	
3 HT zones	

* HT = High Temperature LT = Low Temperature

Mixed temperature zones kit

1 HT ZONE + 1 LT ZONE KIT
1 HT ZONE + 2 LT ZONES KIT



- High Efficiency modulating pumps
- Flexible Installation thanks to 10 different pumps heads, settable on each pump
- Ourly programming for each zone
- Possible external probe for thermoregulation
- Electric Protection IPX5D
- To be used on plants where high pump heads are needed
- Possible installation on the wall or inside the wall
- Kit includes:
 - Hydraulic balancer
 - Electrocnic controller
 - Modulating pumps
 - Mixing valve motorized
 - Encasing box

Model	W x H x D (mm)
1 HT zone + 1 LT zone kit	450 x 700 x 190
1 HT zone + 2 LT zones kit	

* HT = High Temperature LT = Low Temperature

Flue systems



Concentric Ø 60/100 mm systems

Description

401002001

Concentric flue kit inlet + outlet
Ø 60 mm / 100 mm

401005006 no brand version



401002006

Concentric vertical connection kit,
flanged Ø 60 mm / 100 mm



401002003

Concentric flue extension m/f
Ø 60 mm / 100 mm
L = 1000 mm



401002007

Concentric flue extension m/f
Ø 60 mm / 100 mm
L = 500 mm



401002004

Concentric 90° bend m/f kit
Ø 60 mm / 100 mm



401002005

Concentric 45° bend m/f kit
Ø 60 mm / 100 mm



401000009

Sloped roof tile kit



401000010

Plain roof tile kit



401002002

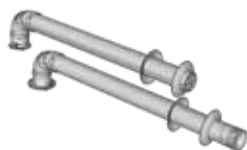
Concentric vertical flue kit
inlet + outlet
Ø 60 mm / 100 mm
L=1282 mm



Split Ø 80 mm systems

Description

401003002
Split system kit inlet + outlet
Ø 80 mm / 80 mm



401003009
Encasing split system kit inlet + outlet
Ø 80 mm / 80 mm



401003001
Split connection kit inlet + outlet
Ø 80 mm / 80 mm



401003021
Split system Ø 80 mm
City Open only



401003003
Extension m/f kit
L = 2000 mm Ø 80 mm



401003004
Extension m/f kit
L = 1000 mm Ø 80 mm



401003005
Extension m/f kit
L = 500 mm Ø 80 mm



401003006
Bend kit m/f 90°
Ø 80 mm



401003007
Bend kit m/f 45°
Ø 80 mm



401003008
Vertical flue kit outlet only
Ø 80 mm (also for Ø 60 mm)
L=1380 mm



401005004
Split system vertical terminal

Hose Ø 80 mm

Description

Pieces per pack

401003010
Hose
L = 20 m
Ø 80 mm



20 m*

401003011
Flexible / rigid adapter
Ø 80 mm



1 pcs.

401003017
Bend Ø 80 mm
with shelf



1 pcs.

401003018
Centering
Ø 80 mm
(5 pcs. pack)



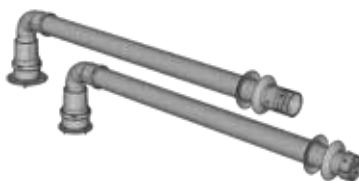
5 pcs.*

*Min purchasing q.ty and relevant multiples.

Split Ø 60 mm systems

Description

401004002
Split system kit inlet + outlet
Ø 60 mm / 60 mm
(not compliant with City Box)



401004008
Fitting kit
m= Ø 80
f= Ø 60



401003001
Split connection kit inlet + outlet
Ø 80 / 80 mm
(to connect to cod. 401004008)



401004005
Extension m/f kit
L = 2000 mm
Ø 60 mm



401004003
Extension m/f kit
L = 1000 mm
Ø 60 mm



401004004
Extension m/f kit
L = 500 mm
Ø 60 mm



401004006
Bend kit m/f 90°
Ø 60 mm



401004007
Bend kit m/f 45°
Ø 60 mm



401003008
Vertical flue kit outlet only
Ø 60 mm
(also for Ø 80 e Ø 50 mm)
L= 1380 mm



Hose Ø 60 mm

Description

Pieces per pack

401004009
Hose
L = 20 m
Ø 60 mm



20 m*

401004010
Flexible / rigid adapter
Ø 60 mm



1 pcs.

401004011
Bend Ø 60 mm
with shelf



1 pcs.

401004012
Centering Ø 60 mm
(5 pcs. pack)



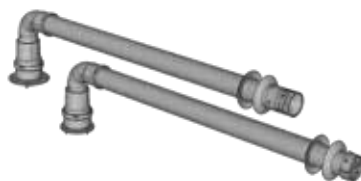
5 pcs.*

*Min purchasing q.ty and relevant multiples.

Split Ø 50 mm systems

Description

401008001
Split system kit inlet + outlet
aspirazione + scarico
Ø 50 / 50 mm



401008007
Fitting kit
m= Ø 80
f= Ø 50



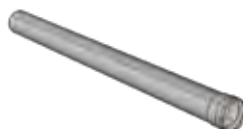
401003001
Split connection kit inlet + outlet
Ø 80 / 80 mm
(to connect to cod. 401008007)



401008004
Extension m/f kit
L = 2000 mm
Ø 50 mm



401008002
Extension m/f kit
L = 1000 mm
Ø 50 mm



401008003
Extension m/f kit
L = 500 mm
Ø 50 mm



401008005
Bend kit m/f 90°
Ø 50 mm



401008006
Bend kit m/f 45°
Ø 50 mm



Hose Ø 50 mm

Description

Pieces per pack

401008008
Hose L = 20 mt
Ø 50 mm



20 m*

401008009
flexible / rigid adapter
Ø 50 mm



1 pcs.

401008010
Bend Ø 50 mm
with shelf



1 pcs.

401008011
Centratore
Ø 50 mm
(5 pcs. pack)



5 pcs.*

*Min purchasing q.ty and relevant multiples.

Accessories



Metal template and Gas conversion kits



401020019 Metal template	✓	✓			—				
401020021 Metal template			✓		—				
401020023 Metal template				✓	—				
401020025 Metal template					—	✓			
401020003 Metal template					—		✓		
401020015 Metal template					—			✓	
401020017 Metal template					—				✓

Gas conversion kit

401042290 G30/31 401042350 G20	GAS ADAPTIVE	✓ 27K	✓ 27K		
401042335 G30/31 401042440 G20		✓ 35K	✓ 35K	✓ 35K	✓ 35K



G30/G31 means Nat Gas to LPG - G20 means from LPG to Nat Gas

N.B.: 18 K models can't be transformed in G31

Protective liquids for CH plants	New Plant		Existing Plant	
	cleaning	protection	cleaning	protection
401150006 5 liters tank		✓		✓
401150007 5 liters tank			✓	
401150008 5 liters tank	✓			



Connection and fitting kits


	City Top K	City Class K	City Class KR	City Open K	City Box K	Time Micro K	Time Max K	Time Compact	Time Solar
401010023 Universal hydraulic fitting kit <i>(stainless steel flexible pipes)</i> 	✓	✓		✓	✓	✓	✓	✓	✓
401010024 Nr. 2 valves kit 3/4" m/f <i>To close system flow and return. Compatible with specific and universal fitting kits</i> 	✓	✓	✓	✓	✓	✓	✓	✓	✓
401010037 Hydraulic fitting kit <i>City Top - City Class K - City Open K - City Class C NOx</i>	✓	✓		✓					
401010039 Hydraulic fitting kit <i>City Class KR</i>			✓						
401010005 Hydraulic fitting kit <i>City Box K</i>					✓				
401010049 Hydraulic fitting kit <i>Time Micro K</i>						✓			
401010003 Hydraulic fitting kit <i>Time Max K</i>							✓		
401010025 Hydraulic fitting kit <i>Time Compact</i>								✓	
401010029 Hydraulic fitting kit <i>Time Solar K</i>									✓

Accessories for solar systems



Instantaneous boiler connection to the solar system






	City Top K	City Class K	City Class KR	City Open K	City Box K	Time Micro K	Time Max K	Time Compact	Time Solar
--	------------	--------------	---------------	-------------	------------	--------------	------------	--------------	------------

<p>401090008</p> <p>Solar kit with fittings</p> <p><i>City Top - City Class K - City Open K</i></p>	✓	✓		✓					
<p>401090010</p> <p>Solar kit with fittings</p> <p><i>City Box 25 K - 35 K</i></p>					✓				
<p>401070001</p> <p>Anti-freeze kit for solar kit with fittings</p> 	✓	✓		✓	✓				

Accessories

<p>401141014</p> <p>Expansion vessel 18 l</p> <p><i>usable for solar collectors</i></p>	
<p>401141015</p> <p>Expansion vessel 25 l</p> <p><i>usable for solar collectors</i></p>	
<p>401141016</p> <p>Expansion vessel 18 l</p> <p><i>for DHW</i></p>	

Kits

	City Top K	City Class K	City Class KR	City Open K	City Box K	Time Micro K	Time Max K	Time Compact	Time Solar
Grid kit covering fittings 401010043 Grid kit covering fittings WxHxD: 367 x 51x194 mm 	✓	✓	✓						
401010044 Grid kit covering fittings for dirt separator WxHxD: 367 x 167x268.5mm 	✓	✓	✓						
Dirt Separator									
401010041 Magnetic dirt separator kit 	✓	✓	✓	✓		✓	✓		
401010047 Magnetic dirt for City Box 					✓				
DHW recirculation kit									
401010026 DHW recirculation kit 								✓	
401010030 DHW recirculation kit									✓




Thermoregulation



Accessories for thermoregulation

		City Top	City Class K	City Class KR	City Open K	City Box K	Time Micro K	Time Max K	Time Compact	Time Solar
401080018 Kit Italtherm Net APP Required with the Remote Control cod. 401080010		✓	✓	✓	✓	✓	✓	✓	✓	
401080010 Remote control with climatic regulator english version 401080020 french/spanish version		✓	✓	✓	INCLUDED	INCLUDED	✓	✓	✓	
401060001 Outdoor temperature sensor kit		✓	✓	✓	✓	✓	✓	✓	✓	✓
401080001 Remote control with climatic regulator										✓
Weekly room thermostat										
 401080002 wired version		✓	✓	✓	✓	✓	✓	✓	✓	✓
401080004 wired version with GSM control		✓	✓	✓	✓	✓	✓	✓	✓	✓
401080005 wireless version		✓	✓	✓	✓	✓	✓	✓	✓	✓
Zone kit										
 401100003 1 HT zone kit		✓	✓	✓	✓	✓	✓	✓	✓	✓
401100004 2 HT zones kit		✓	✓	✓	✓	✓	✓	✓	✓	✓
401100005 3 HT zones kit		✓	✓	✓	✓	✓	✓	✓	✓	✓
401100006 1 HT ZONE + 1 LT ZONE KIT		✓	✓	✓	✓	✓	✓	✓	✓	✓
401100007 1 HT ZONE + 2 LT ZONES KIT		✓	✓	✓	✓	✓	✓	✓	✓	✓

Accessories for thermoregulation

	City Top	City Class K	City Class KR	City Open K	City Box K	Time Micro K	Time Max K	Time Compact	Time Solar
<p>401110001 CH multi zones interface PCB <i>Required only if the Remote control cod. 401080001 is installed</i></p> 						✓	✓	✓	✓
<p>401110004 CH multi zones interface PCB <i>Required only if the Remote control cod. 401080010 is installed</i></p> 	✓	✓	✓	✓	✓				
<p>401139002 Temperature sensor kit for external storage <i>For "KR" models only, as they are preset to be connected to a remote storage unit</i></p> 			✓						

Net APP



Italtherm Net APP

the ideal comfort
at your smartphone



Italtherm Net APP is simple to use and allows to manage your system when you are away from home, ensuring maximum comfort and maximum energy savings.

SAVE ENERGY TO HEAT YOUR HOME

You can change the temperature remotely from your smartphone. Programming via remote control allows you to manage the system according to your daily habits, so as to heat your home only when necessary. In the event of unforeseen circumstances or sudden changes in your habits, thanks to Italtherm Net APP, you can act in real time on the heating to make sure you return to a warm home.

TAILOR-MADE DHW COMFORT

Directly from your smartphone, set the ideal water temperature with a click before bathing or showering for a tailor-made comfort according to your needs.

EVERYTHING UNDER CONTROL

Check the status of your boiler at any time: CH flow temperature, burner operating power, room temperature, system pressure (where available) and DHW set temperature. In the event of malfunctions, you can view the alarm codes in real time in order to promptly act, in some cases even remotely. *With just one APP you can monitor one or more homes.*

MAXIMUM FLEXIBILITY

You can change the configuration, both in heating and DHW, directly from your smartphone for the desired lapse of time: once this time has elapsed, everything will return as pre-set from Remote Control.

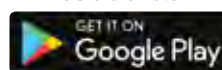


*This application, together with **Italtherm Net APP kit** (cod. 401080018), **MUST BE COMBINED** with Italtherm **Remote control** (cod. 401080010) with climatic regulator.*

401080018
Italtherm Net APP Kit



iOS 9.0 or later



Android 4.4 or later

High power boilers



WALL-HUNG BOILERS



Single configuration

Time Power 50K-70K-90K-100K*-115K

1:10



63

Time Power 160 K

1:6



63

Hydraulic separator kits

65

Accessories - Gas conversion kits - Flue system

68

Cascade configuration

2 boilers cascade

1:24



74

3 boilers cascade

1:40



76

4 boilers cascade

1:47



78

Hydraulic separator kits

80

Accessories - Flue system

82

MODULAR BOX

Single configuration

Modular box 50K-70K-90K-115K

1:10



86

Modular box 160K

1:6



88

Cascade configuration

2 modular boxes

1:40



90

3 modular boxes

1:40



92

4 modular boxes

1:47



94

Hydraulic separator kits

97

Accessories

96

FLOOR VERSION

Single configuration

Time Power Floor 90K-115K-160K*

1:10
*1:6



101

Cascade configuration

2 boilers cascade

1:24



102

3 boilers cascade

1:40



104

4 boilers cascade

1:47



106

Hydraulic separator kits

109

Accessories

110

Legend:



Modulation ratio



Heating



Domestic Hot Water



Condensing boiler



Storage tank



Outdoor



Wall-hung boiler



Floor-standing boiler




Cascade configuration

Q_n = nominal heat input in CH • η = efficiency * With boiler working in condensation (system flow 50°C; system return 30°C)

*for EXTRA EU markets ONLY

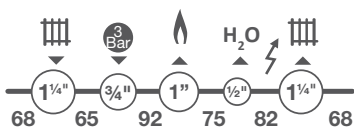
Single configuration



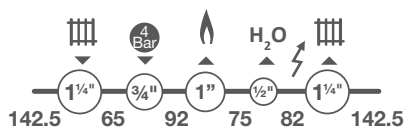
Time Power **50 K 70 K 90 K 100 K 115 K 160 K**



- 1 Flue connections with spots for combustion analysis integrated
- 2 Termoacoustic insulation
- 3 Stainless steel combustion unit
- 4 Special burner: flame stability even at low power levels
- 5 Mixer with pneumatic modulation 1:10
- 6 Condense siphon
- 7 High efficiency modulating pump
- 8 Multifunction control system: more than 40 configurable parameters to optimize adaptation to any plant



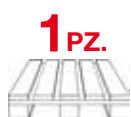
50 K - 70 K



90 K - 100 K - 115 K - 160 K

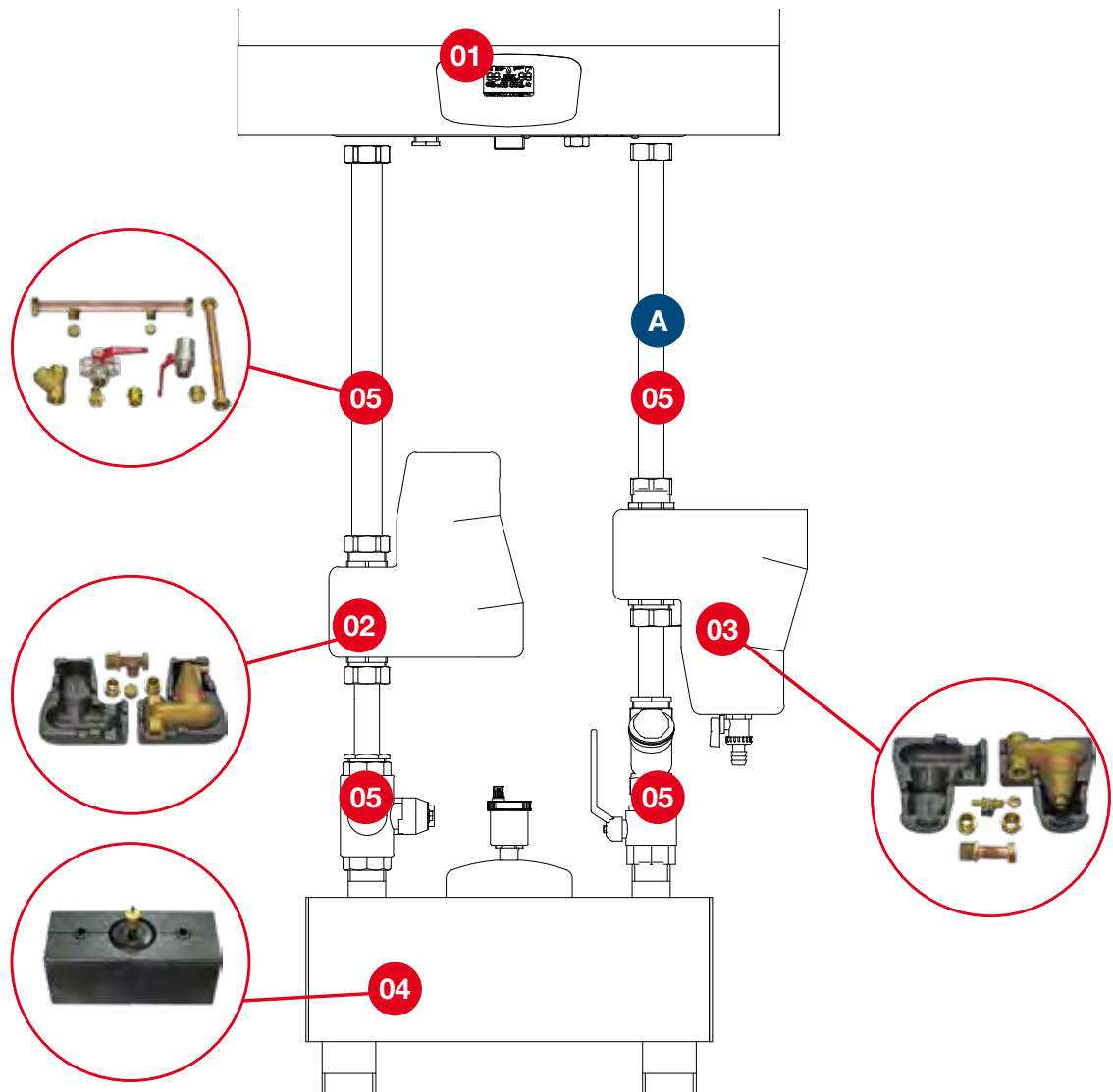
Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	Qnw (kW)	η30 at Qn (%)	Ø flue (mm)	Energy efficiency class III
Time Power 50 K	450 x 837 x 475	38.8	47.5 / 5	47.5	106.7	80	A
Time Power 70 K		45.8	63 / 7	63	107.2	80	A
Time Power 90 K	600 x 837 x 620	86.5	85 / 9.5	85	106.1	100	-
Time Power 100 K*		92.0	100 / 11	100	109.1	100	-
Time Power 115 K		92.0	108 / 11	108	109.1	100	-
Time Power 160 K		105.0	150 / 25.0	105.0	109.2	100	-

*for EXTRA EU markets ONLY



Time Power with balancer

50 K SP 50 K 70 K 90 K 115 K 115 K



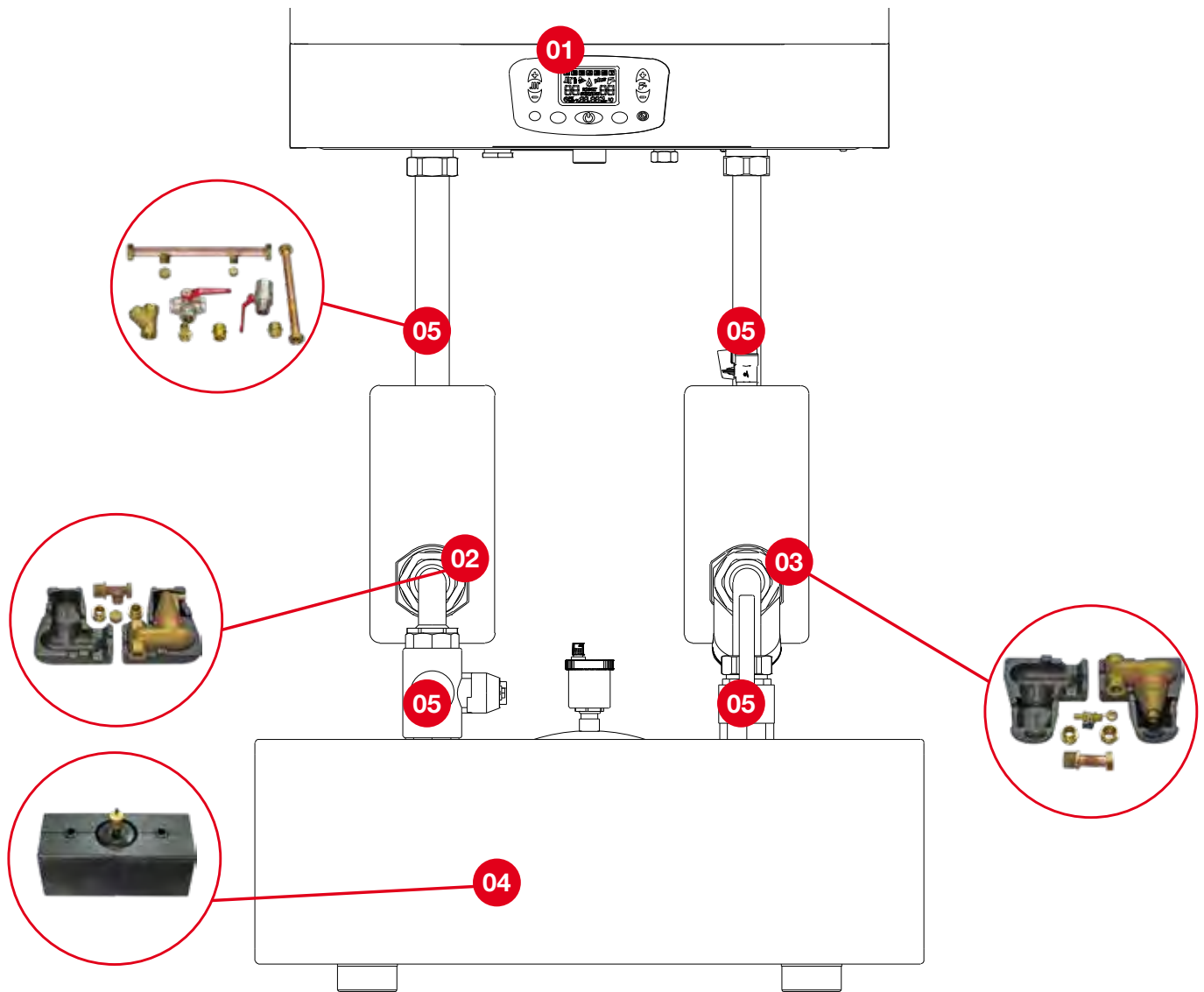
01 Boiler	as per boiler combination table	1
02 Separator kit for micro-bubbles	401150003	1
03 Separator kit for micro-impurities	401150002	1
04 Horizontal balancer	401150005	1
05 Connection kit	401150062	1

ACCESSORIES

A DHW 3-way valve
with NTC sensor

401150001 for 50 K - 70 K

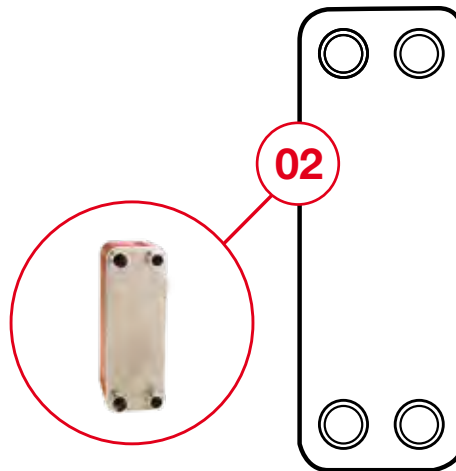
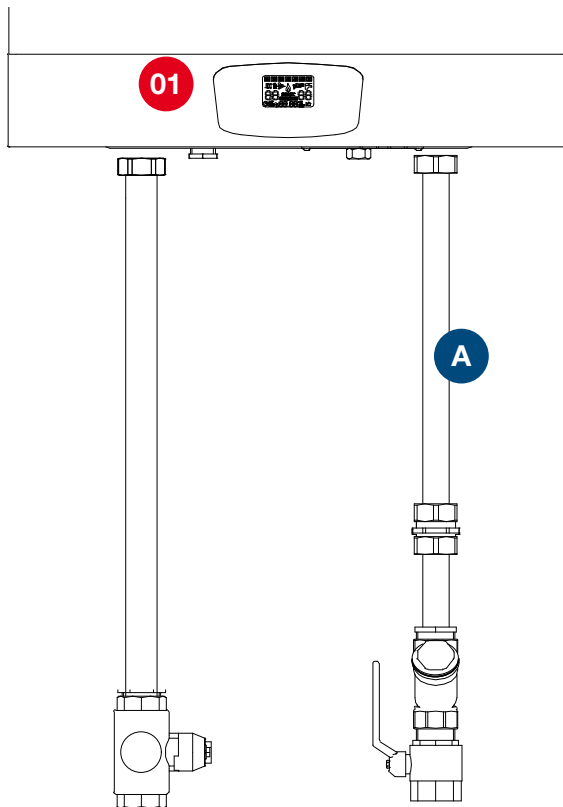




01 Boiler	as per boiler combination table	1
02 Separator kit for micro-bubbles	401150090*	1
03 Separator kit for micro-impurities	401150089	1
04 Horizontal balancer	401150092	1
05 Connection kit	401150093	1

* the appearance of these accessories may differs slightly from the images shown

Time Power with Heat exchanger 50 K 70 K 90 K 115 K



01 Boiler as per boiler combination table 1

BRAZED
heat exchanger

02 Plate Heat exchanger

1" 1/4 - 50K	401150157 - 55 kW
1" 1/4 - 70K	401150158 - 68 kW
1" 1/4 - 90K	401150159 - 89 kW
1" 1/4 - 115K	401150160 - 114 kW

ACCESSORIES

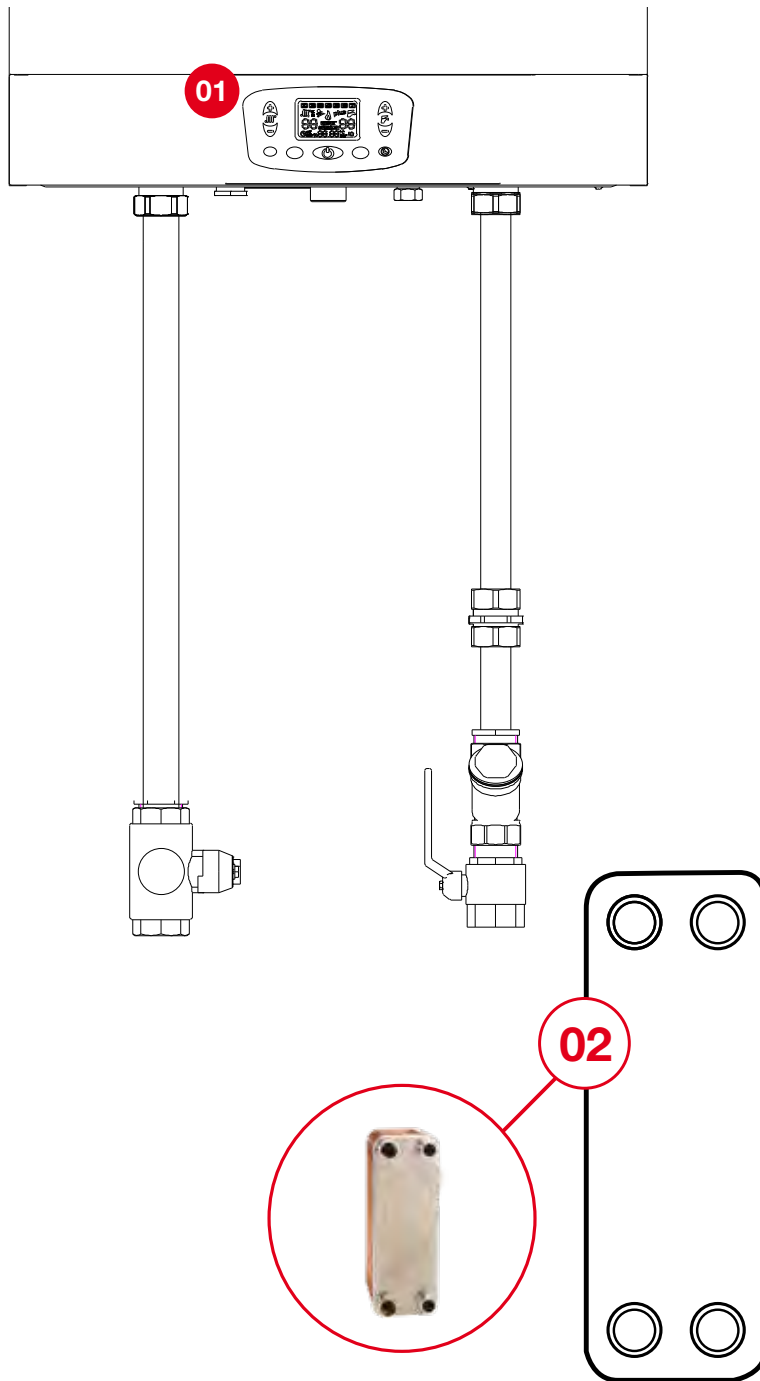
A **DHW 3-way valve**
with NTC sensor

401150001 for 50 K - 70 K



Time Power with Heat exchanger

160 K






01 Boiler as per boiler combination table 1

BRAZED
heat exchanger

02 Plate Heat exchanger 1" 1/4 1 401150104 - 180 kW

Accessories for SINGLE configuration

<p>401150010 Condensate neutralisation filter</p>	
<p>401150040 Condensate neutralisation filter fittings kit</p>	

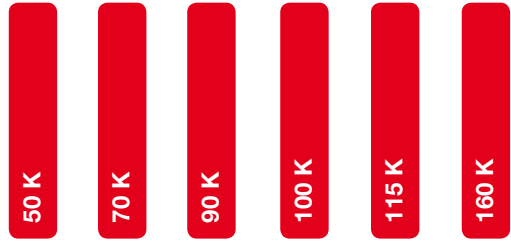
Protective liquids for CH plants	New Plant		Existing Plant	
	cleaning	protection	cleaning	protection
<p>401150006 5 liter tank</p>		<p>✓</p>	<p>✓</p>	
<p>401150007 5 liter tank</p>		<p>✓</p>		
<p>401150008 5 liter tank</p>		<p>✓</p>		

Accessories for thermoregulation

<p>401060001 Outdoor temperature sensor</p>	
<p>401080010 Remote control with climatic regulator english version 401080020 french/spanish version</p>	
<p>Weekly scheduling digital chronothermostat 401080002 wired connection version 401080004 GSM version 401080005 RF version</p>	
<p>401110001 CH multi zones interface PCB <i>Required only if the Remote control cod. is installed</i></p>	
<p>401139002 Temperature sensor kit for external storage</p>	

* The appearance of these accessories for 160K models differs slightly from the images shown.

Gas conversion kits



	50 K	70 K	90 K	100 K	115 K	160 K
401044345 G30/31 401044460 G20	✓					
401044470 G30/31 401044740 G20		✓				
401044480 G30/31 401044560 G20			✓			
401044520 G30/31 401044640 G20				✓	✓	
401044960 G30/31 401044135 G20						✓

G30/31 means Nat. Gas to LPG - G20 means LPG to Nat.Gas

Ø 80 mm systems

50 K 70 K

Split

401003003
Extension m/f kit
L = 2000 mm Ø 80 mm



401003004
Extension m/f kit
L = 1000 mm Ø 80 mm



401003005
Extension m/f kit
L = 500 mm Ø 80 mm



401003006
Bend kit m/f 90°
Ø 80 mm



401003007
Bend kit m/f 45°
Ø 80 mm



401003008
Vertical flue kit outlet only
Ø 80 mm (Ø 60 mm too)
L = 1380 mm



401007012
Split system Kit inlet + outlet
Ø 80 mm / 80 mm

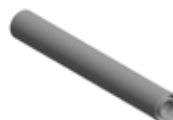


Concentric

401007015
Concentric flue kit
inlet + outlet Ø 80 mm / 125 mm
with split-to-concentric adapter



401005010
Concentric extension kit
Ø 80 mm / 125 mm



Ø 100 mm systems

90 K 100 K 115 K 160 K

Split

401006001
Extension m/f kit
L = 2000 mm Ø 100 mm



401006002
Extension m/f kit
L = 1000 mm Ø 100 mm



401006003
Bend kit m/f 90°
Ø 100 mm



401006004
Bend kit m/f 45°
Ø 100 mm



401006005
Vertical flue kit outlet only
Ø 100 mm
L = 1020 mm



401000009
Sloped roof tile kit



401000010
Plain roof tile kit



401007013
Split system Kit inlet + outlet Ø
100 mm / 100 mm

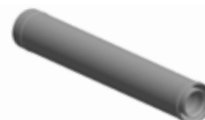


Concentric

401007014
Concentric flue kit
inlet + outlet Ø 100 mm / 150 mm
with split-to-concentric adapter



401005011
Concentric extension kit
Ø 100 mm / 150mm



Cascade configuration





- ▶ **Up to 4 boilers*** - 450 kW - in cascade configuration
complete management
- ▶ **Up to 9 boilers** - 1.35 MW - in cascade configuration
electronic management only

**3 boilers for mod 160 K*

2 boilers cascade configuration



- 2 generators in line (from 96 to 300 kW)
- Modulation system ratio up to 1:24
- Cascade management control unit designed by Italtherm to simplify complex plants programming and management
- Advanced management of heat generators in parallel or with the needed power balancing
- Advanced management of the heating circuits up to 5 programmable zones or with single thermoregulation

Boilers Nr	Plant power	Boilers combination		W x H* x D (mm)	Qn / Qmin (kW)	Ø flue (mm)
2	95 kW	50 K + 50 K	1:19		96/5	80 125
	111 kW	50 K + 70 K	1:22	2104 x 2029 x 493	110.5/5	80 125
	126 kW	70 K + 70 K	1:18		126/7	80 125
	170 kW	90 K + 90 K	1:17		170/9	100 160
	193 kW	90 K + 115 K	1:20	2104 x 2064 x 633	193/9	100 160
	216 kW	115 K + 115 K	1:19		216/11	100 160
	235 kW	160 K + 90 K	1:24	2104 x 2064 x 725	235/9.5	100 160
	258 kW	160 K + 115 K	1:23		258/25	100 160
	300 kW	160 K + 160 K	1:12	2104 x 2146 x 725	300/25	100 200

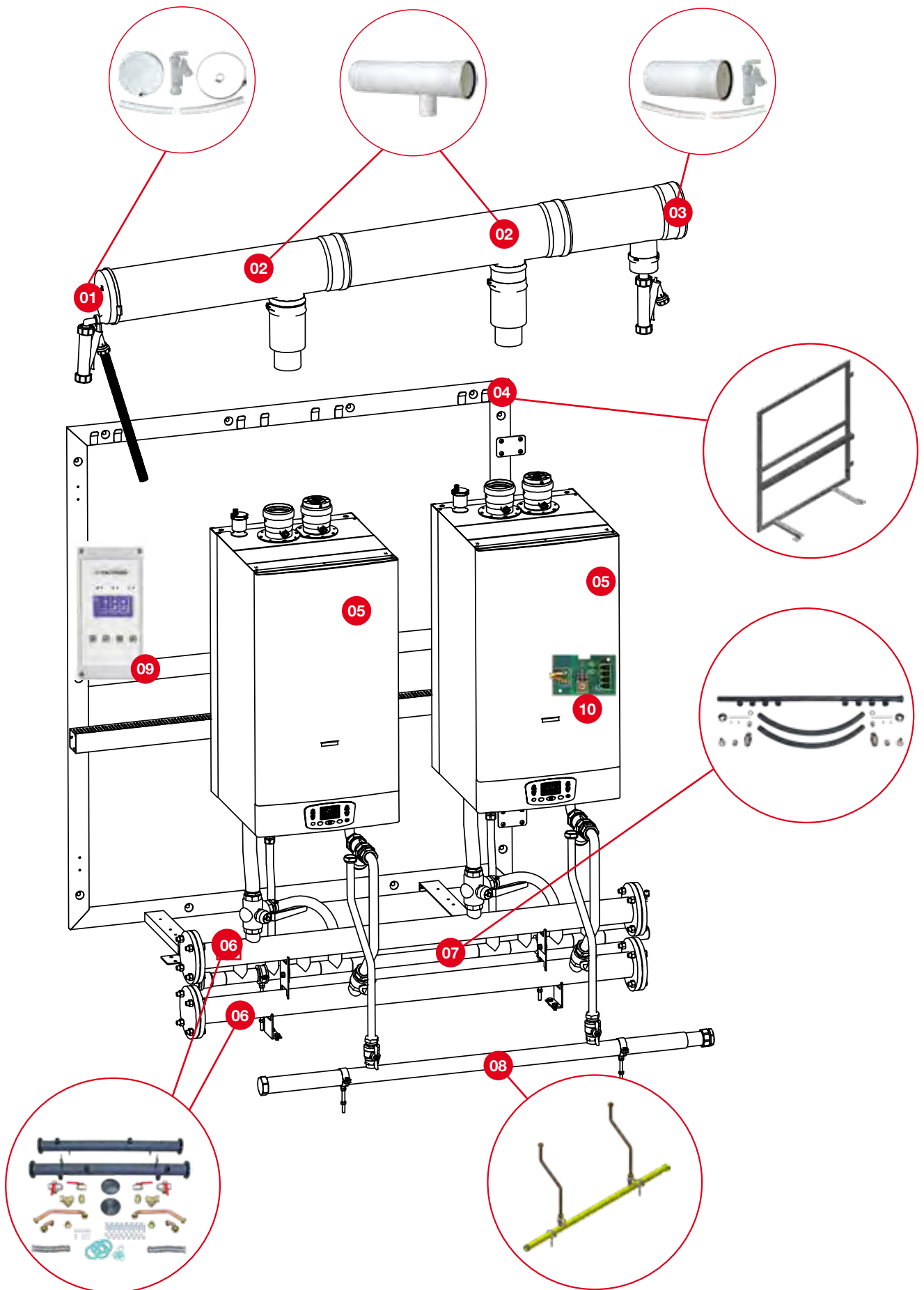
*Height including flue system

Configuration components

04	2-element secondary frame kit	401150014	1
05	Boilers	as per boilers combination table	2
06	Water manifold kit (D+R) 2 elements	401150024	1
07	Condensate drain manifold kit 2 elements	401150034	1
08	GAS manifold kit 2 elements	401150020	1
09	Cascade management controller english version Cascade management controller spanish version	401150096 401150133	1
10	Interface PCB boiler cascade controller	401150056	1

Flue system:	from 96 kW to 126 kW	from 170 kW to 258 kW	for 300 kW
02 Flue manifold kit	Ø 125/80 401007001 2	Ø 160/100 401007006 2	Ø 200/100 401007008 2
01 Flue manifold plug kit with siphon	Ø 125 401007003 1	Ø 160 401007004 1	Ø 200 401007005 1
03 Flue manifold kit with siphon	Ø 125 401007009 1	Ø 160 401007010 1	Ø 200 401007011 1


2 boilers cascade components



3 boilers cascade configuration



- 3 generators in line (from 144 to 450 kW)
- Modulation system ratio up to 1:40
- Cascade management control unit designed by Italtherm to simplify complex plants programming and management
- Advanced management of heat generators in parallel or with the needed power balancing
- Advanced management of the heating circuits up to 5 programmable zones or with single thermoregulation

Boilers Nr	Plant power	Boilers combination		W x H* x D (mm)	Qn / Qmin (kW)	Ø flue (mm)
3	143 kW	50 K + 50 K + 50 K	1:28	2804 x 2060 x 493	142.5/5	80 125
	158 kW	50 K + 50 K + 70 K	1:31		158/5	80 125
	174 kW	50 K + 70 K + 70 K	1:34		173.5/5	80 160
	189 kW	70 K + 70 K + 70 K	1:27		189/5	80 160
	255 kW	90 K + 90 K + 90 K	1:26		255/9.5	100 160
	278 kW	90 K + 90 K + 115 K	1:29	2804 x 2095 x 633	278/9.5	100 200
	301 kW	90 K + 115 K + 115 K	1:31	2804 x 2150 x 725	301/9.5	100 200
	320 kW	160 K + 90 K + 90 K	1:33		320/9.5	100 200
	324 kW	115 K + 115 K + 115 K	1:29	2804 x 2150 x 633	324/11	100 200
	343 kW	160 K + 115 K + 90 K	1:36	2804 x 2150 x 725	343/9.5	100 200
	366 kW	160 K + 115 K + 115 K	1:34		366/11	100 200
	385 kW	160 K + 160 K + 90 K	1:40		385/9.5	100 200
	408 kW	160 K + 160 K + 115 K	1:37	2804 x 2150 x 725	408/11	100 200
	450 kW	160 K + 160 K + 160 K	1:18		450/25	100 200

*Height including flue system

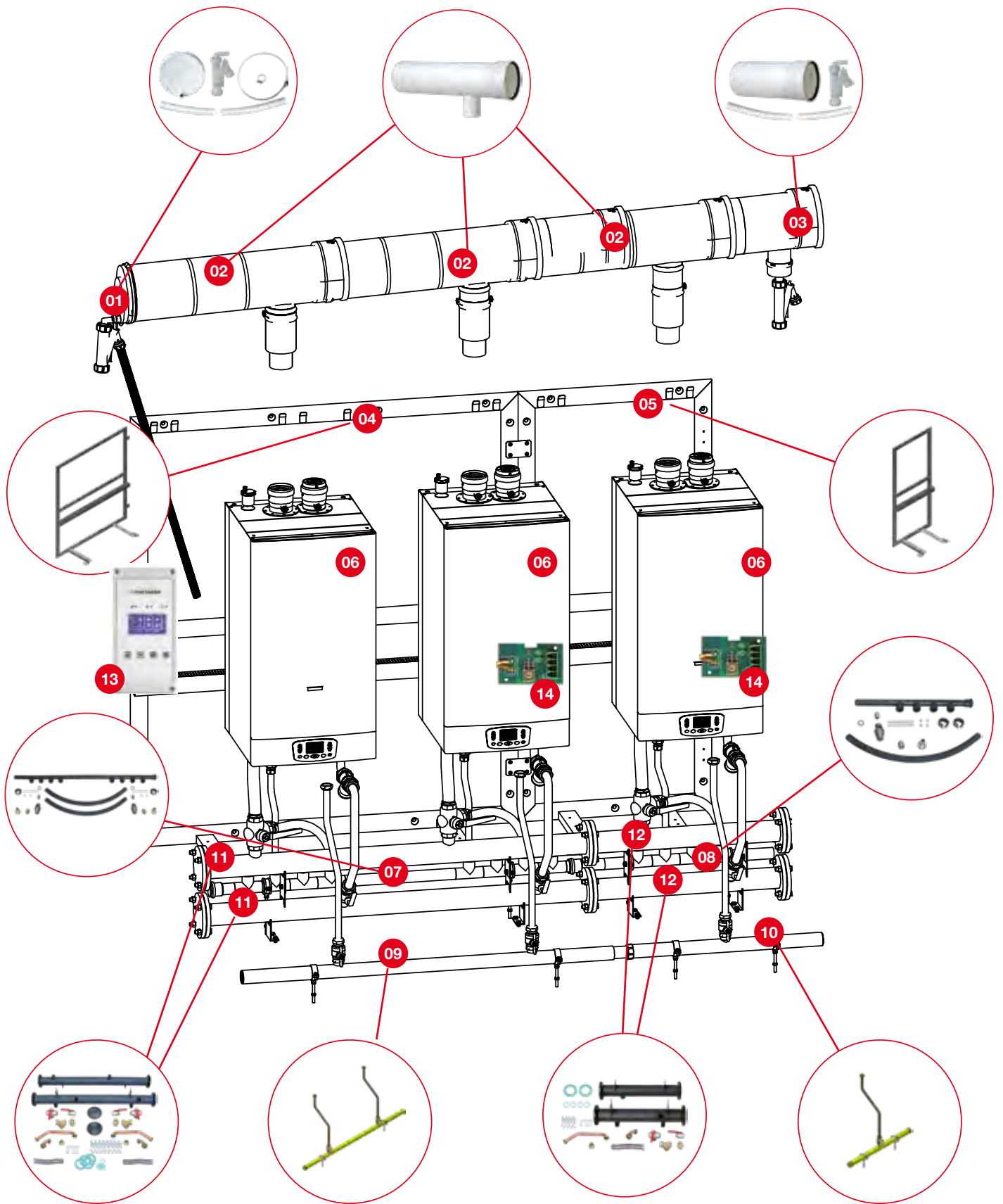
Configuration components

04	2-element secondary frame kit	401150014	1
05	1-element secondary frame kit	401150013	1
06	Boilers	as per boilers combination table	3
07	Condensate drain manifold kit 2 elements	401150034	1
08	Condensate drain manifold kit 1 element	401150033	1
09	GAS manifold kit 2 elements	401150020	1
10	GAS manifold kit 1 element	401150019	1
11	Water manifold kit (D+R) 2 elements	401150024	1
12	Water manifold kit (D+R) 1 element	401150023	1
13	Cascade management controller english version Cascade management controller spanish version	401150096 401150133	1
14	Interface PCB boiler cascade controller	401150056	2

Flue system:

	for 144 kW	from 158 kW to 255 kW <i>*only for 255kW version</i>	from 278 kW to 450 kW
02	Flue manifold kit	Ø 125/80 401007001 3	Ø 160/80 401007002 3 Ø 160/100 401007006* 3
01	Flue manifold plug kit with siphon	Ø 125 401007003 1	Ø 160 401007004 1
03	Flue manifold kit with siphon	Ø 125 401007009 1	Ø 160 401007010 1
			Ø 200/100 401007008 3 Ø 200 401007005 1 Ø 200 401007011 1


3 boilers cascade components



4 boilers cascade configuration



- 4 generators in line (from 192 to 450 kW)
- Modulation system ratio up to 1:47
- Cascade management control unit designed by Italtherm to simplify complex plants programming and management
- Advanced management of heat generators in parallel or with the needed power balancing
- Advanced management of the heating circuits up to 5 programmable zones or with single thermoregulation

Boilers Nr	Plant power	Boilers combination		W x H* x D (mm)	Qn / Qmin (kW)	Ø flue (mm)
4	190 kW	50 K + 50 K + 50 K + 50 K	1:38	3504 x 2125 x 493	190/5.0	80 160
	206 kW	50 K + 50 K + 50 K + 70 K	1:41		205/5.0	80 160
	221 kW	50 K + 50 K + 70 K + 70 K	1:44		221/5.0	80 160
	237 kW	50 K + 70 K + 70 K + 70 K	1:47		236.5/5.0	80 160
	252 kW	70 K + 70 K + 70 K + 70 K	1:36		252/7.0	80 160
	340 kW	90 K + 90 K + 90 K + 90 K	1:35		340/9.5	100 200
	363 kW	90 K + 90 K + 90 K + 115 K	1:38	3504 x 2196 x 633	363/9.5	100 200
	386 kW	90 K + 90 K + 115 K + 115 K	1:40		386/9.5	100 200
	405 kW	160 K + 90 K + 90 K + 90 K	1:42		405/9.5	100 200
	409 kW	115 K + 115 K + 115 K + 90 K	1:43		409/9.5	100 200
	428 kW	160 K + 115 K + 90 K + 90 K	1:45		428/9.5	100 200
	432 kW	115 K + 115 K + 115 K + 115 K	1:39		432/11	100 200

*Height including flue system

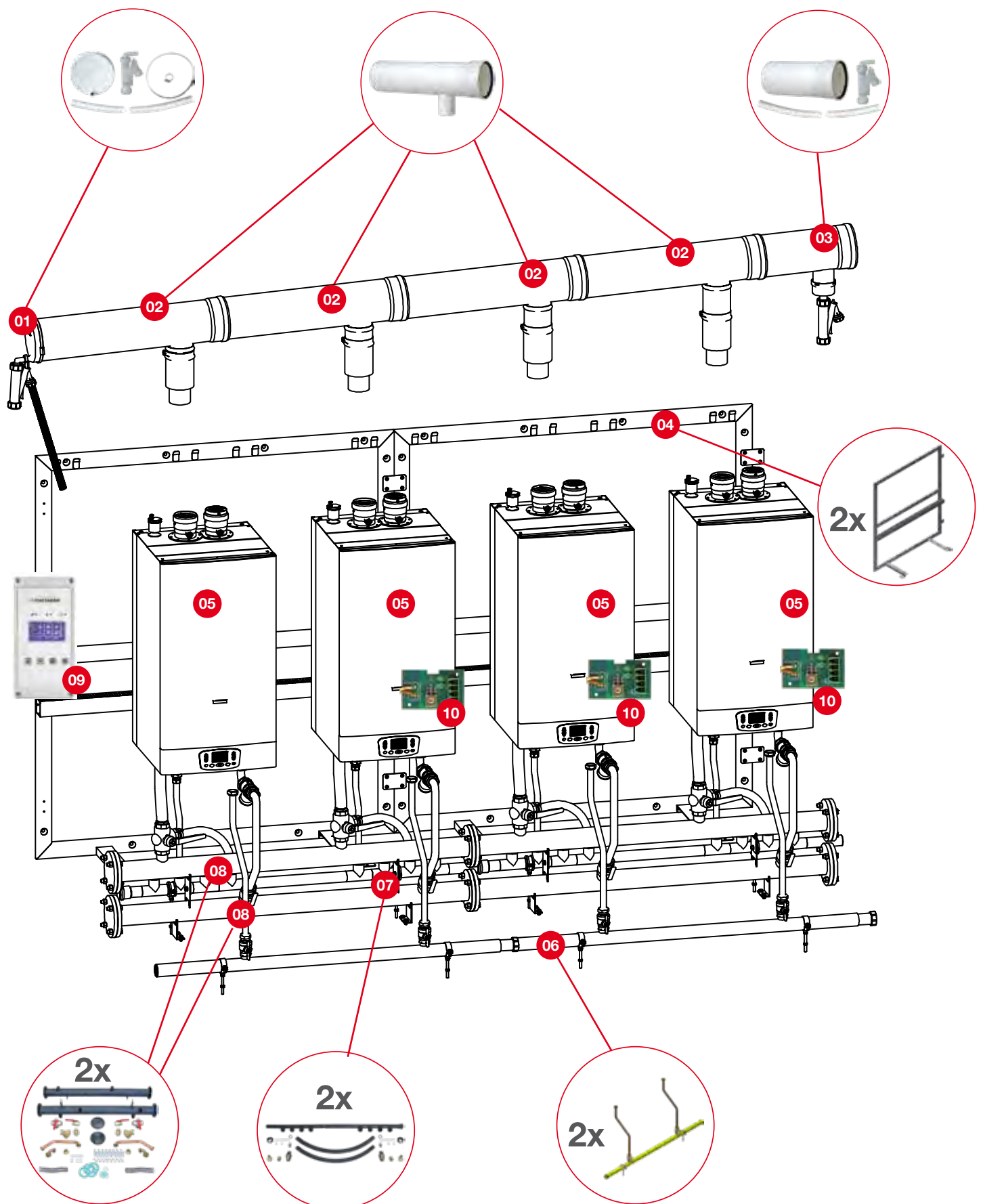
Configuration components

04	2-element secondary frame kit	401150014	2
05	Boilers	as per boilers combination table	4
06	GAS manifold kit 2 elements	401150020	2
07	Condensate drain manifold kit 2 elements	401150034	2
08	Water manifold kit (D+R) 2 elements	401150024	2
09	Cascade management controller english version Cascade management controller spanish version	401150096 401150133	1
10	Interface PCB boiler cascade controller	401150056	3

Flue system:

		from 192 kW to 252 kW			from 340 kW to 432 kW		
02	Flue manifold kit	Ø 160/80	401007002	4	Ø 200/100	401007008	4
01	Flue manifold plug kit with siphon	Ø 160	401007004	1	Ø 200	401007005	1
03	Flue manifold kit with siphon	Ø 160	401007010	1	Ø 200	401007011	1

4 boilers cascade components



Hydraulic separator kit with balancer**



Balancer < 280 kW		Dimension (WxHxD)
01	Balancer kit	401150031
02	Balancer connection pipe kit	401150037

Balancer > 280 kW		Dimension (WxHxD)
01	Balancer kit	401150048
02	Balancer connection pipe kit	401150049



Balancer+sludge remover-deaerator < 280 kW		Dimension (WxHxD)
01	Balancer kit	401150031
02	Balancer connection pipe kit	401150037
03	Sludge remover-deaerator	401150018

Balancer+sludge remover-deaerator > 280 kW		Dimension (WxHxD)
01	Balancer kit	401150048
02	Balancer connection pipe kit	401150049
03	Sludge remover-deaerator	401150050

Accessories **NOT INCLUDED in the configurations in pages 74 - 76 - 79

Hydraulic separator kit with plate heat exchanger**



Expansion vessel INCLUDED

Plate heat exchanger 180 kW

Insulated plate heat exchanger 180 kW	401150104
Plate heat exchanger connection pipe left/right side ▶	401150169
Expansion vessel kit 12 L ▶▶	401150113

Plate heat exchanger 322 kW

Insulated plate heat exchanger 322 kW	401150105
Plate heat exchanger connection pipe left/right side ▶	401150169
Expansion vessel kit 12 L ▶▶	401150113

Plate heat exchanger 412 kW

Insulated plate heat exchanger 412 kW	401150106
Plate heat exchanger connection pipe left/right side ▶	401150169
Expansion vessel kit 12 L ▶▶	401150113

Plate heat exchanger 501 kW

Insulated plate heat exchanger 501 kW	401150107
Plate heat exchanger connection pipe left/right side ▶	401150169
Expansion vessel kit 12 L ▶▶	401150113

- ▶ connection pipe both left/right side
- ▶▶ necessary in the plate heat exchanger version

Accessories **NOT INCLUDED in the configurations in pages 74 - 76 - 79

Accessories for cascade configuration**

Electronic for management

401150061
0-10 V interface PCB boiler cascade controller not Open Therm



Hydraulic for condense management**

401150015
Condensate neutralisation tank



401150016
Pump for condensate neutralisation tank



Accessories**

401141014
Expansion vessel 18 l
for CH plant



401141015
Expansion vessel 25 l
for CH plant



401150094
Manifold extension for additional devices
with Expansion vessel connection



Protective liquids for CH plants**



	New Plant		Existing Plant	
	cleaning	protection	cleaning	protection
401150006 5 liters tank		✓		✓
401150007 5 liters tank			✓	
401150008 5 liters tank	✓			



Accessories **NOT INCLUDED in the configurations in pages 74 - 76 - 79

Flue system for cascade configuration**

< 160 kW < 270 kW > 270 kW

<p>401007022 Flue extension kit 1m Ø125 mm M/F 50K-70K</p>		✓		
<p>401007023 Flue extension kit 1m Ø160 mm M/F 50K-70K-90K-115K-160K</p>			✓	
<p>401007024 Flue extension kit 1m Ø200 mm M/F 50K-70K-90K-115K-160K</p>				✓
<p>401007019 - 45° Flue bend kit Ø125 mm M/F 50K-70K</p>		✓		
<p>401007020 - 45° Flue bend kit Ø160 mm M/F 50K-70K-90K-115K-160K</p>			✓	
<p>401007021 - 45° Flue bend kit Ø200 mm M/F 50K-70K-90K-115K-160K</p>				✓
<p>401007016 - 87° Flue bend kit Ø125 mm M/F 50K-70K</p>		✓		
<p>401007017 - 87° Flue bend kit Ø160 mm M/F 50K-70K-90K-115K-160K</p>			✓	
<p>401007018 - 87° Flue bend kit Ø200 mm M/F 50K-70K-90K-115K-160K</p>				✓

Accessories **NOT INCLUDED in the configurations in pages 74 - 76 - 79

Modular box






Modular box

50 K 70 K 90 K 100 K 115 K



- Single modular box for outdoor installation
- Maximum system output 115 kW
- Modulation ratio up to 1:10
- Capability to be connected either right or left
- Box equipped with:
 - lateral holes to connect the installation
 - upper hole for flue discharge pipe
 - support feet
 - 180° openable door with lock

Boilers Nr	Boiler		W x H* x D (mm)	Qn / Qmin (kW)	Ø flue system (mm)
1	50 K	1:10	702 x 2.375 x 810	47.5/5	80
	70 K	1:10		63 / 7	80
	90 K	1:10	* H with elevation kit, without flue systems	85 / 9.5	100
	100 K*	1:10		85 / 9.5	100
	115 K	1:10		108 / 11	100

Configuration components

01	Modular box	401150102	1
02	Panels kit	401150103	1
03	Flue System	Ø 80 mm 401003020 (mod. 50K-70K) Ø 100 mm 401006006 (mod. 90K-100K-115K)	1
04	Boiler	as per boilers combination table	1
05	Separator kit for micro impurities	401150002	1
06	Separator kit for micro bubbles	401150003	1
07	Horizontal balancer kit	401150005	1
08	Elevation kit (for 50K-70K -90K-100 K -115K)	401150112	1

Modular box components

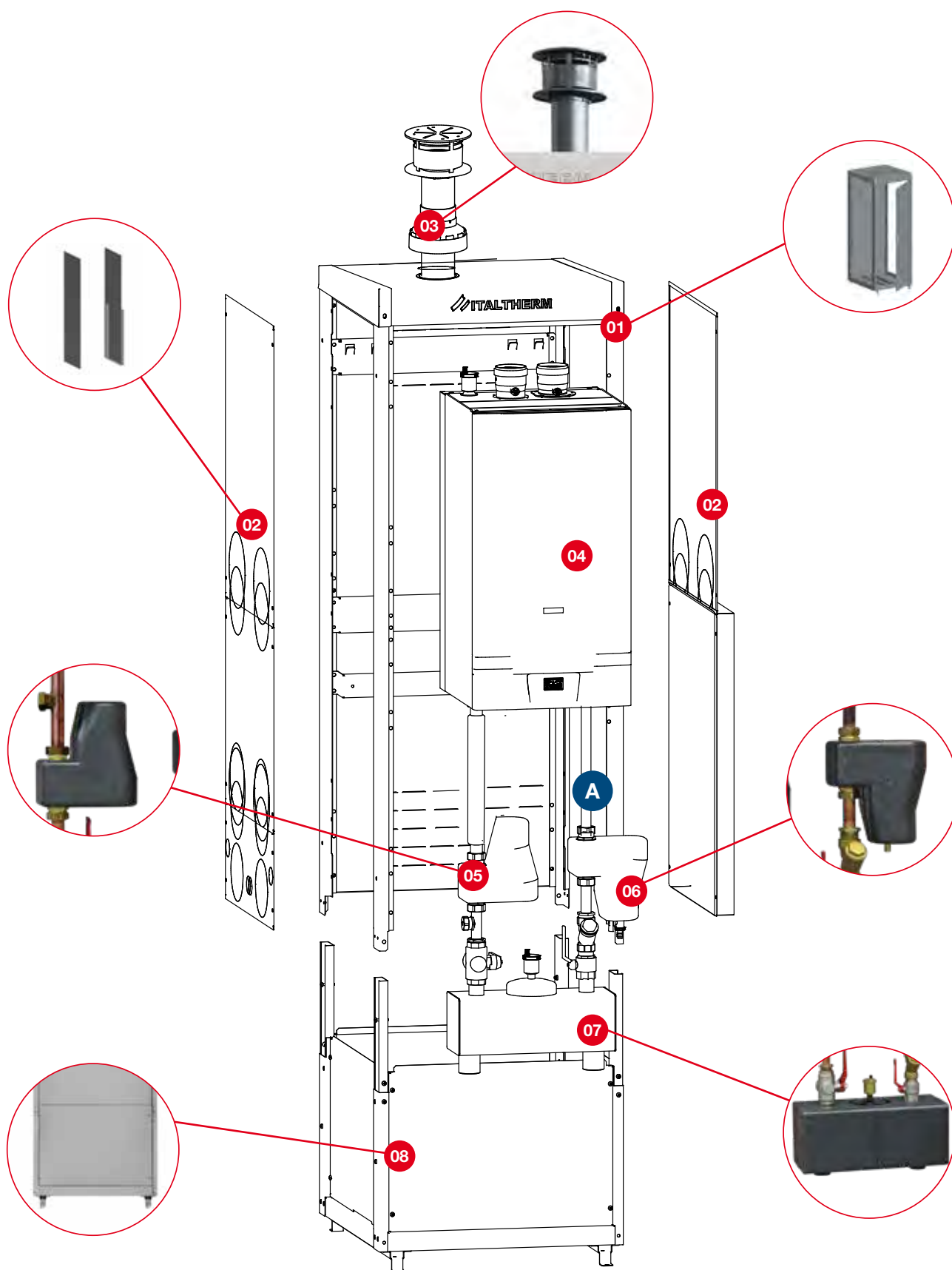
50 K

70 K

90 K

100 K

115 K



ACCESSORIES


A DHW 3-way valve
with NTC sensor

401150001 for 50 K - 70 K





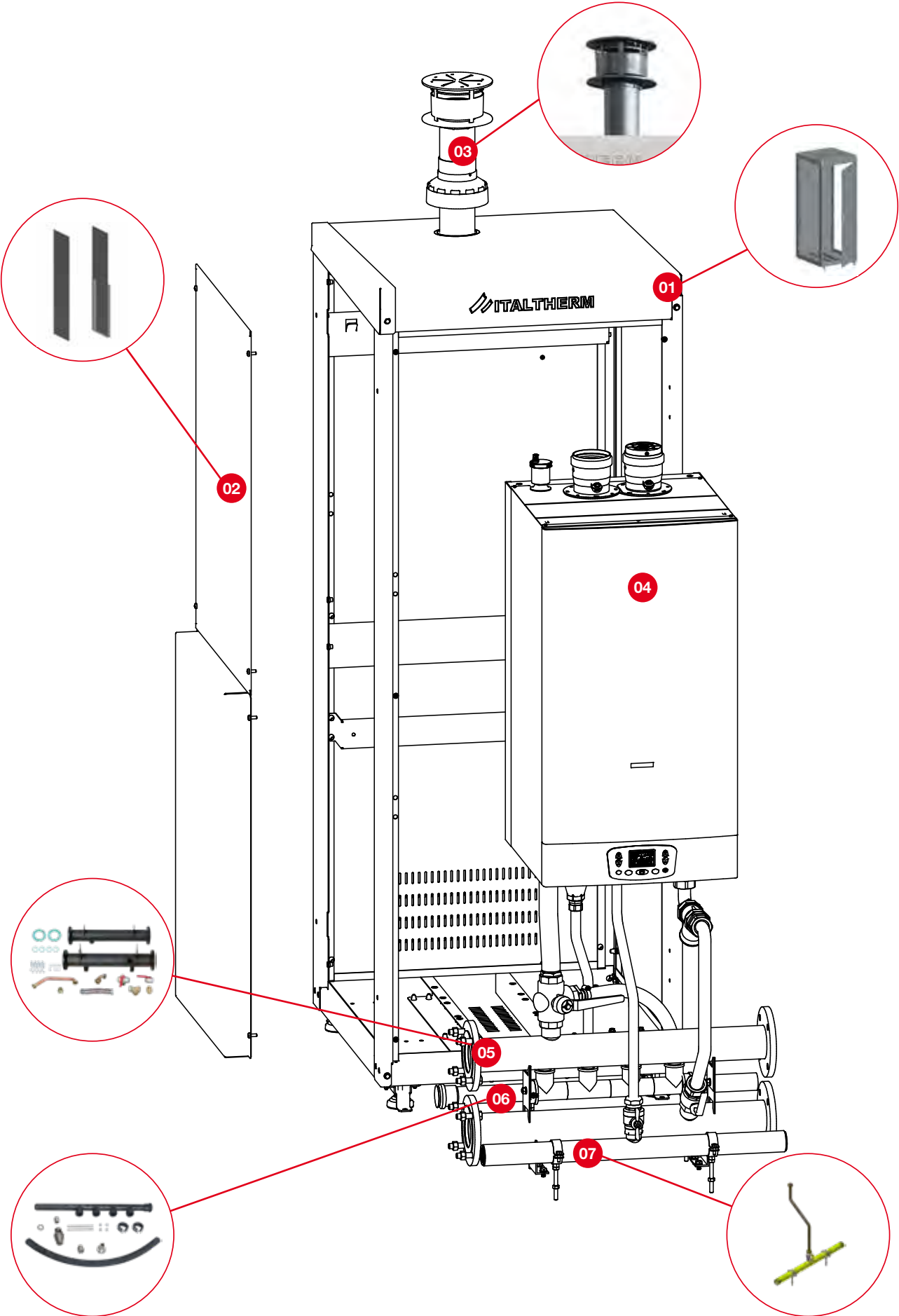
- Modular box for outdoor installation
- Maximum system output 160 kW
- Modulation ratio up to 1:6
- Capability to be connected either right or left
- Box equipped with:
 - lateral holes to connect the installation
 - upper hole for flue discharge pipe
 - support feet
 - 180° openable door with lock

Boilers Nr	Boiler		W x H* x D (mm)	Qn / Qmin (kW)	Ø flue system (mm)
1	160 K	1:6	702 x 1.925 x 810 <small>*H without flue system</small>	150/ 25	100

Configuration components					
01	Modular box		401150102		1
02	Panels kit		401150103		1
03	Flue system		Ø 100 mm 401006006		1
04	Boiler		as per boilers combination table		1
05	Water manifold kit (D+R) 1 element		401150023		1
06	Condensate drain manifold kit 1 element		401150033		1
07	GAS manifold kit 1 element		401150019		1

For "Hydraulic separator kit" see on page 98


Modular box components 160 K



2 boilers Modular boxes



- Modular box for outdoor installation
- Maximum system output 300 kW
- Modulation ratio up to 1:24
- Capability to be connected either right or left
- Box equipped with:
 - lateral holes to connect the installation
 - upper hole for flue discharge pipe
 - support feet
 - 180° openable door with lock

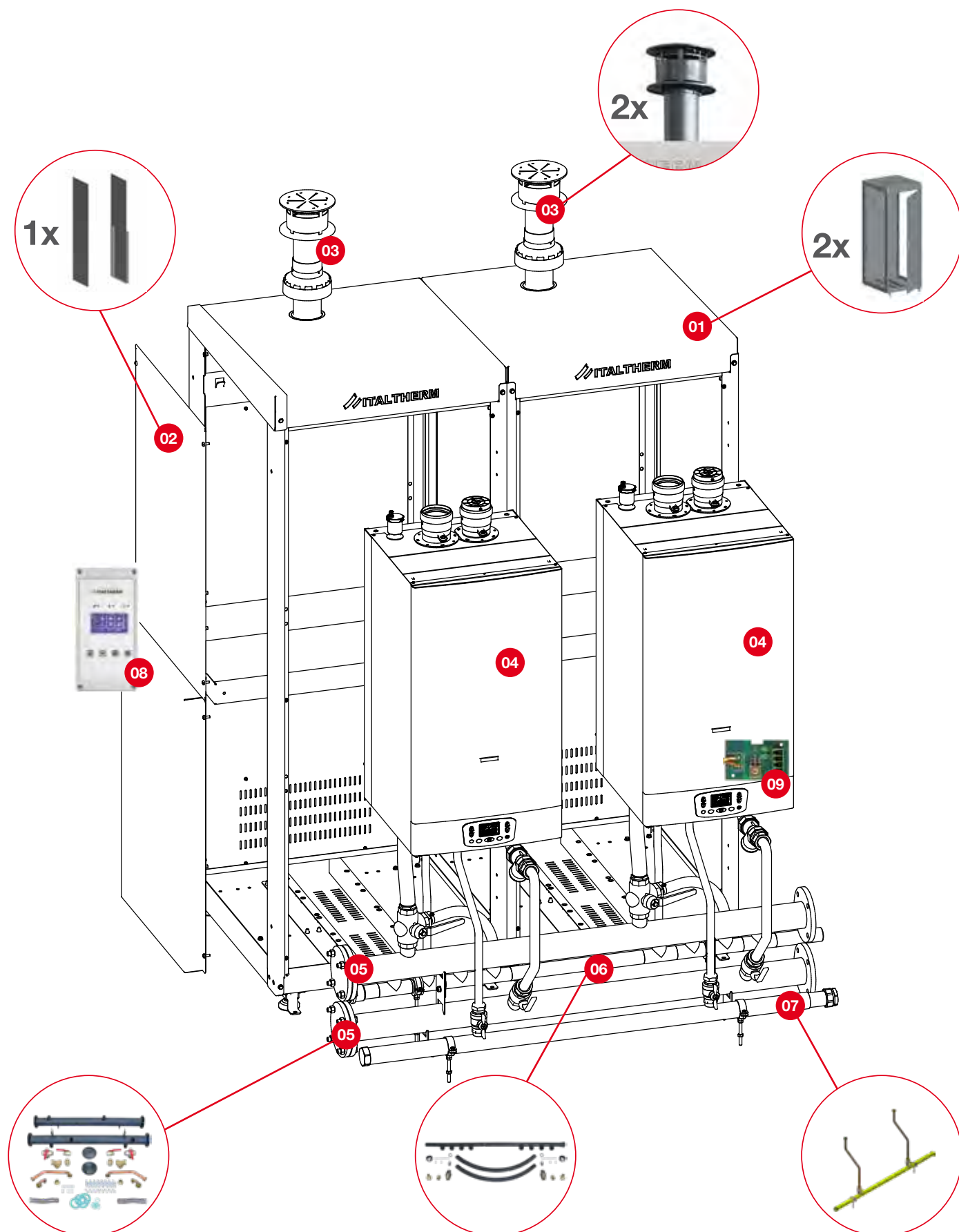
Boilers Nr	Plant power	Boilers combination		W x H* x D (mm)	Qn / Qmin (kW)	Ø flue (mm)
2	95 kW	50 K + 50 K	1:19	1402 x 1925 x 810 <i>*H without flue system</i>	95/5	80
	111 kW	50 K + 70 K	1:22		110.5/5.0	80
	126 kW	70 K + 70 K	1:18		126/7	80
	170 kW	90 K + 90 K	1:17		170/9.5	100
	193 kW	90 K + 115 K	1:20		193/9.5	100
	216 kW	115 K + 115 K	1:19		216/11	100
	235 kW	160 K + 90 K	1:24		235/9.5	100
	258 kW	160 K + 115 K	1:23		258/25	100
300 kW	160 K + 160 K	1:12	300/25	100		

Configuration components

01	Modular box	401150102	2
02	Panels kit	401150103	1
03	Flue system	Ø 80 mm 401003020 (mod. 50K-70K)	2
		Ø 100 mm 401006006 (mod. 90K-100K-115K-160K)	2
04	Boiler	as per boilers combination table	2
05	Water manifold kit (D+R) 2 elements	401150024	1
06	Condensate drain manifold kit 2 elements	401150034	1
07	GAS manifold kit 2 elements	401150020	1
08	Cascade management controller english version	401150096	1
	Cascade management controller spanish version	401150133	
09	Interface PCB boiler -cascade controller	401150056	1

For "Hydraulic separator kit" see on page 98


2 boilers Modular boxes components



3 boilers Modular boxes



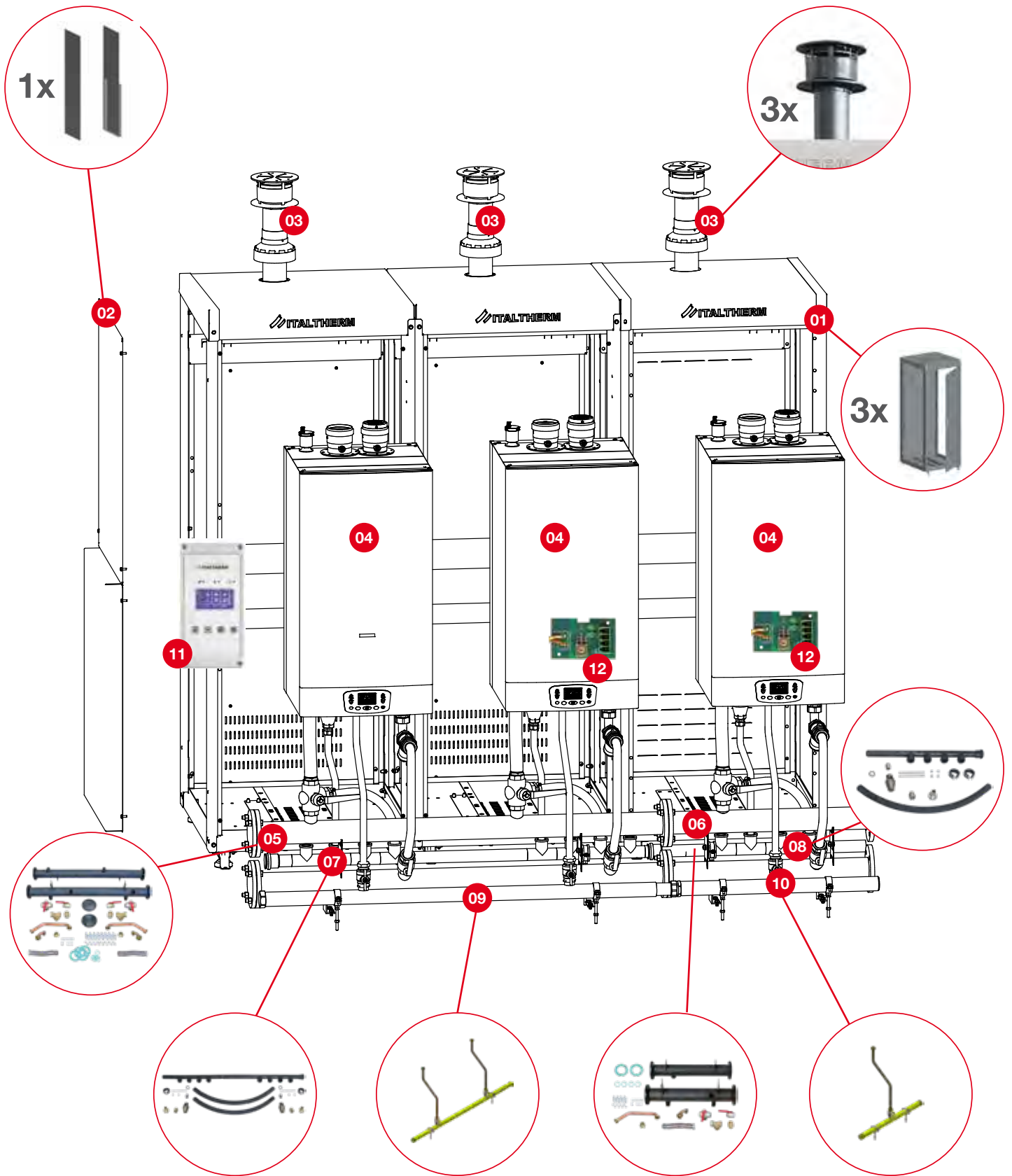
- Modular box for outdoor installation
- Maximum system output 450 kW
- Modulation ratio up to 1:40
- Capability to be connected either right or left
- Box equipped with:
 - lateral holes to connect the installation
 - upper hole for flue discharge pipe
 - support feet
 - 180° openable door with lock

Boilers Nr	Plant power	Boilers combination		W x H* x D (mm)	Qn / Qmin (kW)	Ø flue (mm)
3	143 kW	50 K + 50 K + 50 K	1:28	2.102 x 1.925 x 810 <small>*H without flue system</small>	142.5/5	80
	158 kW	50 K + 50 K + 70 K	1:31		158/5	80
	174 kW	50 K + 70 K + 70 K	1:34		173.5/5	80
	189 kW	70 K + 70 K + 70 K	1:27		189/5	80
	255 kW	90 K + 90 K + 90 K	1:26		255/9.5	100
	278 kW	90 K + 90 K + 115 K	1:29		278/9.5	100
	301 kW	90 K + 115 K + 115 K	1:31		301/9.5	100
	320 kW	160 K + 90 K + 90 K	1:33		320/9.5	100
	324 kW	115 K + 115 K + 115 K	1:29		324/11	100
	343 kW	160 K + 115 K + 90 K	1:36		343/9.5	100
	366 kW	160 K + 115 K + 115 K	1:34		366/11	100
	385 kW	160 K + 160 K + 90 K	1:40		385/9.5	100
	408 kW	160 K + 160 K + 115 K	1:37		408/11	100
450 kW	160 K + 160 K + 160 K	1:18	450/25	100		

Configuration components						
01	Modular box		401150102		3	
02	Panels kit		401150103		1	
03	Flue system		Ø 80 mm 401003020 (mod. 50K-70K)		3	
			Ø 100 mm 401006006 (mod. 90K-100K-115K-160K)		3	
04	Boiler		as per boilers combination table		3	
05	Water manifold kit (D+R) 2 elements		401150024		1	
06	Water manifold kit (D+R) 1 element		401150023		1	
07	Condensate drain manifold kit 2 elements		401150034		1	
08	Condensate drain manifold kit 1 element		401150033		1	
09	GAS manifold kit 2 elements		401150020		1	
10	GAS manifold kit 1 element		401150019		1	
11	Cascade management controller english version		401150096		1	
	Cascade management controller spanish version		401150133			
12	Interface PCB boiler - cascade controller		401150056		2	

For "Hydraulic separator kit" see on page 98


3 boilers Modular boxes components



4 boilers Modular boxes



- Modular box for outdoor installation
- Maximum system output 432 kW
- Modulation ratio up to 1:47
- Capability to be connected either right or left
- Box equipped with:
 - lateral holes to connect the installation
 - upper hole for flue discharge pipe
 - support feet
 - 180° openable door with lock

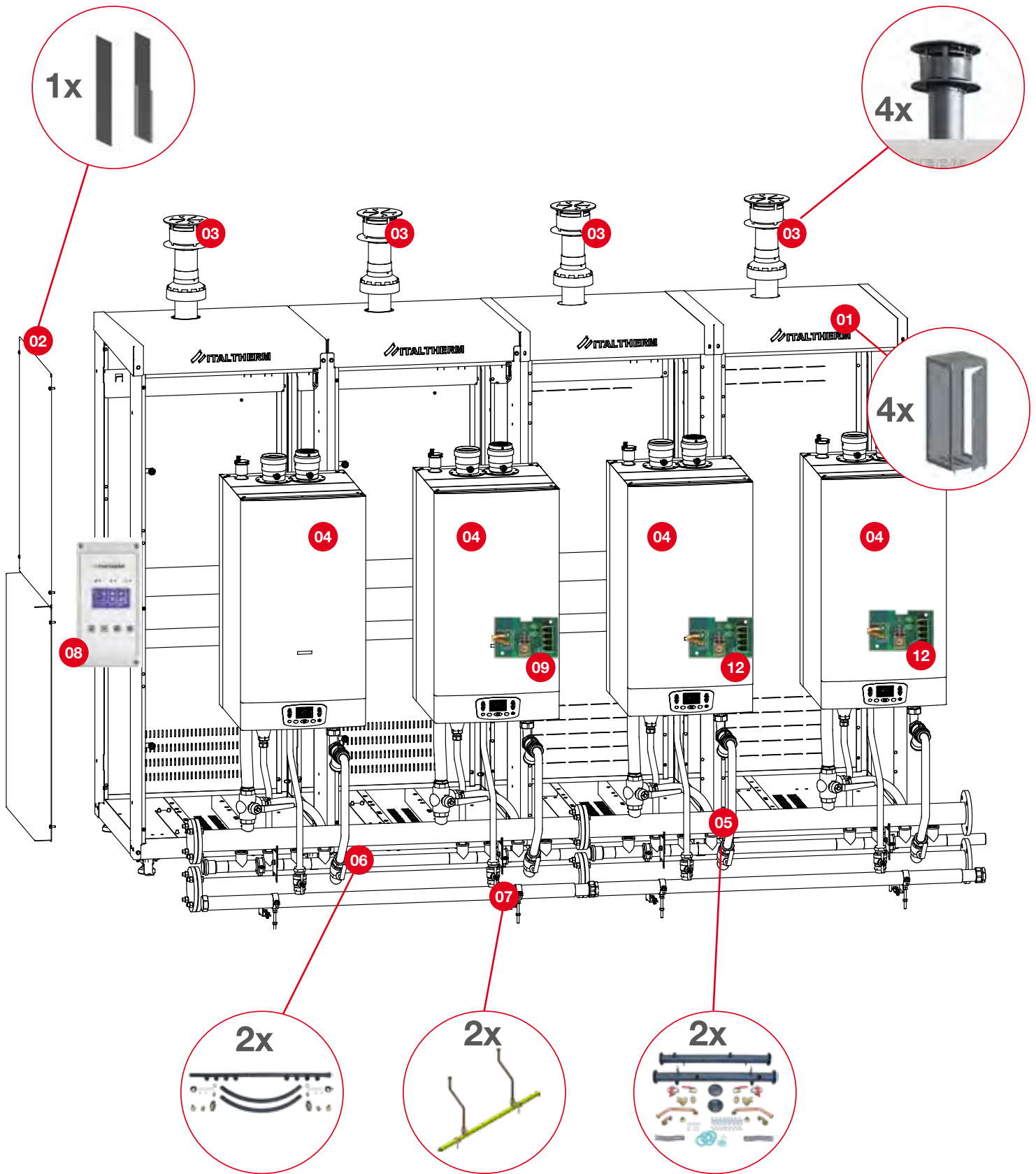
Boilers Nr	Plant power	Boilers combination		W x H* x D (mm)	Qn / Qmin (kW)	Ø flue (mm)
4	190 kW	50 K + 50 K + 50 K + 50 K	1:38	2.802 x 1.925 x 810 <i>*H without flue system</i>	190/5	80
	206 kW	50 K + 50 K + 50 K + 70 K	1:41		205.0/5	80
	221 kW	50 K + 50 K + 70 K + 70 K	1:44		221/5	80
	237 kW	50 K + 70 K + 70 K + 70 K	1:47		236.5/5	80
	252 kW	70 K + 70 K + 70 K + 70 K	1:36		252/7	80
	340 kW	90 K + 90 K + 90 K + 90 K	1:35		340/9.5	100
	363 kW	90 K + 90 K + 115 K + 115 K	1:38		363/9.5	100
	386 kW	160 K + 90 K + 90 K + 90 K	1:40		386/9.5	100
	405 kW	115 K + 115 K + 115 K + 90 K	1:42		405/9.5	100
	409 kW	115 K + 115 K + 115 K + 90 K	1:43		409/9.5	100
	428 kW	160 K + 115 K + 90 K + 90 K	1:45		428/9.5	100
	432 kW	115 K + 115 K + 115 K + 115 K	1:39		432/11	100

Configuration components

01	Modular box	401150102	4
02	Panels kit	401150103	1
03	Flue system	Ø 80 mm 401003020 (mod. 50K-70K)	4
		Ø 100 mm 401006006 (mod. 90K-100K-115K-160K)	4
04	Boiler	as per boilers combination table	4
05	Water manifold kit (D+R) 2 elements	401150024	2
06	Condensate drain manifold kit 2 elements	401150034	2
07	GAS manifold kit 2 elements	401150020	2
08	Cascade management controller english version	401150096	1
	Cascade management controller spanish version	401150133	
09	Interface PCB boiler -cascade controller	401150056	3

For "Hydraulic separator kit" see on page 98

4 boilers Modular boxes components



Accessories for Modular box**

401150061
0-10V interface PCB boiler - cascade controller not Open-therm



401150015
Condensate neutralisation tank



401150016
Pump for condensate neutralisation tank



401150001
DHW 3-way valve
with NTC sensor
only for single modular box 50 K - 70 K



Protective liquids for CH plants**

	New Plant		Existing Plant	
	cleaning	protection	cleaning	protection
401150006 5 liters tank		✓		✓
401150007 5 liters tank			✓	
401150008 5 liters tank	✓			



Accessories **NOT INCLUDED in the configurations on pages 86-94

Hydraulic separator kit

A large, stylized red graphic element on the left side of the page. It consists of a long, thin, horizontal shape that tapers to a point on the right, with a smaller, curved shape branching off downwards from its left side.

Hydraulic balancer kit** from 160 kW to 450 kW



Balancer < 280 kW		
Balancer kit	401150031	
Balancer connection pipe kit	401150138	
Modular box	401150102	
Balancer > 280 kW		
Balancer kit	401150048	
Balancer connection pipe kit	401150142	
Modular box	401150102	



Balancer + Sludge remover - deaerator < 280 kW		
Balancer kit	401150031	
Sludge remover-deaerator	401150018	
Balancer + Sludge remover-deaerator connection pipe kit	401150141	
Modular box	401150102	x2
Balancer + Sludge remover - deaerator > 280 kW		
Balancer kit	401150048	
Sludge remover-deaerator	401150050	
Balancer + Sludge remover-deaerator connection pipe kit	401150145	
Modular box	401150102	x2



Balancer < 280 kW + Modulating pump		
Balancer kit	401150031	
Modulating pump	401150111	
Balancer + Modulating pump connection pipe kit	401150139	
Modular box	401150102	x2
Balancer > 280 kW + Modulating pump		
Balancer kit	401150048	
Modulating pump	401150111	
Balancer + Modulating pump connection pipe kit	401150143	
Modular box	401150102	x2

Grundfos Modulating pump
 max prevalence 15 m (with 15 m³/h of residual capacity)
 max capacity 55 m³/h (with 3 m of residual prevalence)



Balancer < 280 kW + Sludge remover + Modulating pump		
Balancer kit	401150031	
Sludge remover-deaerator	401150018	
Modulating pump	401150111	
Balancer + Sludge remover-deaerator + modulating pump connection pipe kit	401150140	
Modular box	401150102	x3
Balancer > 280 kW + Sludge remover + Modulating pump		
Balancer kit	401150048	
Sludge remover-deaerator	401150050	
Modulating pump	401150111	
Balancer + Sludge remover-deaerator + modulating pump connection pipe kit	401150144	
Modular box	401150102	x3

Accessories **NOT INCLUDED in the configurations on pages 86-94

Hydraulic separator kit** from 160 kW to 450 kW



Plate heat exchanger up to 180 kW			
Insulated plate heat exchanger 180 kW	401150104		
Plate heat exchanger connection pipe both left/right side ▶	401150169		
Expansion vessel kit ▶▶	401150113		
Modular box	401150102	x1	
Plate heat exchanger up to 322 kW			
Insulated plate heat exchanger 322 kW	401150105		
Plate heat exchanger connection pipe both left/right side ▶	401150169		
Expansion vessel kit ▶▶	401150113		
Modular box	401150102	x1	
Plate heat exchanger up to 412 kW			
Insulated plate heat exchanger 412 kW	401150106		
Plate heat exchanger connection pipe both left/right side ▶	401150169		
Expansion vessel kit ▶▶	401150113		
Modular box	401150102	x1	
Plate heat exchanger up to 501 kW			
Insulated plate heat exchanger 501 kW	401150107		
Plate heat exchanger connection pipe both left/right side ▶	401150169		
Expansion vessel kit ▶▶	401150113		
Modular box	401150102	x1	
▶ both left/right connection pipe ▶▶ necessary in the plate heat exchanger version			



Plate heat exchanger up to 180 kW + Modulating pump			
Insulated plate heat exchanger 180 kW	401150104		
Modulating pump	401150111		
Plate heat exchanger + pump connection pipe left side ▶	401150135		
Plate heat exchanger + pump connection pipe right side ▶	401150137		
Expansion vessel kit ▶▶	401150113		
Modular box	401150102	x1	
Plate heat exchanger up to 322 kW + Modulating pump			
Insulated plate heat exchanger 322 kW	401150105		
Modulating pump	401150111		
Plate heat exchanger + pump connection pipe left side ▶	401150135		
Plate heat exchanger + pump connection pipe right side ▶	401150137		
Expansion vessel kit ▶▶	401150113		
Modular box	401150102	x1	
Plate heat exchanger up to 412 kW + Modulating pump			
Insulated plate heat exchanger 412 kW	401150106		
Modulating pump	401150111		
Plate heat exchanger + pump connection pipe left side ▶	401150135		
Plate heat exchanger + pump connection pipe right side ▶	401150137		
Expansion vessel kit ▶▶	401150113		
Modular box	401150102	x1	
Plate heat exchanger up to 501 kW + Modulating pump			
Insulated plate heat exchanger 501 kW	401150107		
Modulating pump	401150111		
Plate heat exchanger + pump connection pipe left side ▶	401150135		
Plate heat exchanger + pump connection pipe right side ▶	401150137		
Expansion vessel kit ▶▶	401150113		
Modular box	401150102	x1	
▶ left connection pipe or right connection pipe ▶▶ necessary in the plate heat exchanger version			

Grundfos Modulating pump
 max prevalence 15 m (with 15 m³/h of residual capacity)
 max capacity 55 m³/h (with 3 m of residual prevalence)

Accessories **NOT INCLUDED in the configurations on pages 86-94

Floor version



NEW Time Power Floor 90 K 115 K 160 K



- 1 Exhaust flue connections with spots for combustion analysis integrated
- 2 Multifunction control system: more than 40 configurable parameters to optimize adaptation to any plant
- 3 Thermoacoustic insulation
- 4 Stainless steel combustion unit
- 5 Special burner: flame stability even at low power levels
- 6 Mixer with pneumatic modulation 1:10
- 7 Condense siphon
- 8 High efficiency modulating pump
- 9 Water manifold kit (D+R) included
- 10 Condensate drain manifold included
- 11 Gas manifold kit included

Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	Qnw (kW)	η_{30} at Qn (%)	\varnothing flue (mm)	Energy efficiency class III
Time Power Floor 90 K	555	132.7	85 / 9.5	85	106.1	100	-
Time Power Floor 115 K	x 1296	140.2	108 / 11	108	109.1	100	-
Time Power Floor 160 K	x 885	155	150 / 25.0	105.0	109.2	100	-

Configuration components


Connection kit 1 boiler	401150161	1
Remote Control with climatic regulator	401080010	1
Italtherm Net App kit	401080018	1



2 boilers cascade configuration



- 2 generators in line (from 170 to 300 kW)
- Modulation system ratio up to 1:24
- Remote management control option
- Cascade management control unit designed by Italtherm to simplify complex plants programming and management
- Advanced management of heat generators in parallel or with the needed power balancing
- Advanced management of the heating circuits up to 5 programmable zones or with single thermoregulation

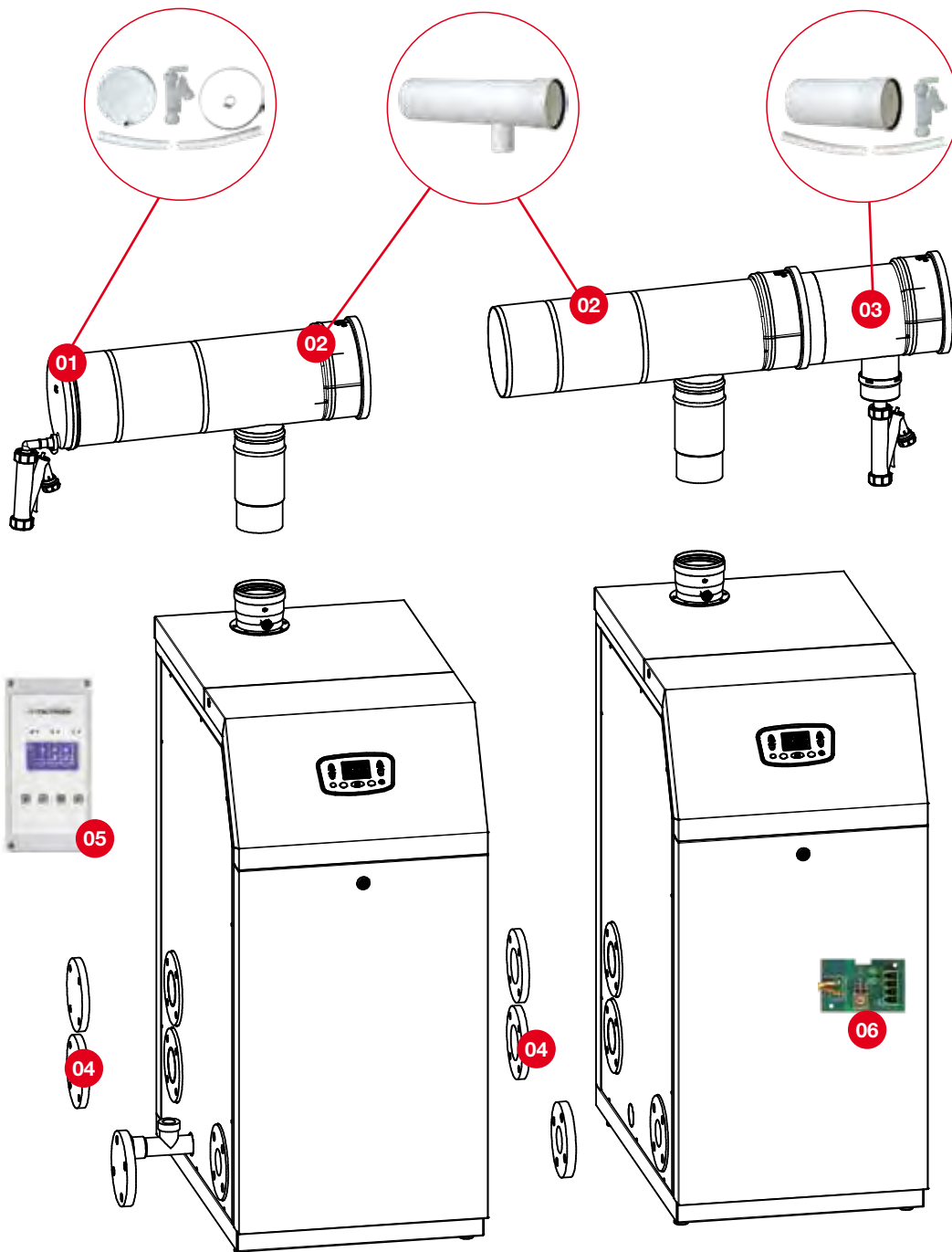
Floor Nr	Plant power	Boilers combination		W x H* x D (mm)	Qn / Qmin (kW)	Ø flue (mm)
2	170 kW	90 K + 90 K	1:17	1397x1689x885	170/9	100 160
	193 kW	90 K + 115 K	1:20		193/9	100 160
	216 kW	115 K + 115 K	1:19		216/11	100 160
	235 kW	160 K + 90 K	1:24		235/9.5	100 160
	258 kW	160 K + 115 K	1:23		258/25	100 160
	300 kW	160 K + 160 K	1:12		300/25	100 200

*Height including flue system

Configuration components

04	Connection kit 2 boilers	401150162	1
05	Cascade management controller english version	401150096	1
	Cascade management controller spanish version	401150133	
06	Interface PCB boiler cascade controller	401150056	1
Flue system			
01	Flue manifold plug kit with siphon	401007004 Ø 160 <270 kW	1
		401007005 Ø 200 >270 kW	1
02	Flue manifold kit	401007025 Ø 160 <270 kW	2
		401007026 Ø 200 >270 kW	2
03	Flue manifold kit with siphon	401007010 Ø 160 <270 kW	1
		401007011 Ø 200 >270 kW	1

2 boilers cascade components



3 boilers cascade configuration



- 3 generators in line (from 255 to 450 kW)
- Modulation system ratio up to 1:37
- Remote management control option
- Cascade management control unit designed by Italtherm to simplify complex plants programming and management
- Advanced management of heat generators in parallel or with the needed power balancing
- Advanced management of the heating circuits up to 5 programmable zones or with single thermoregulation

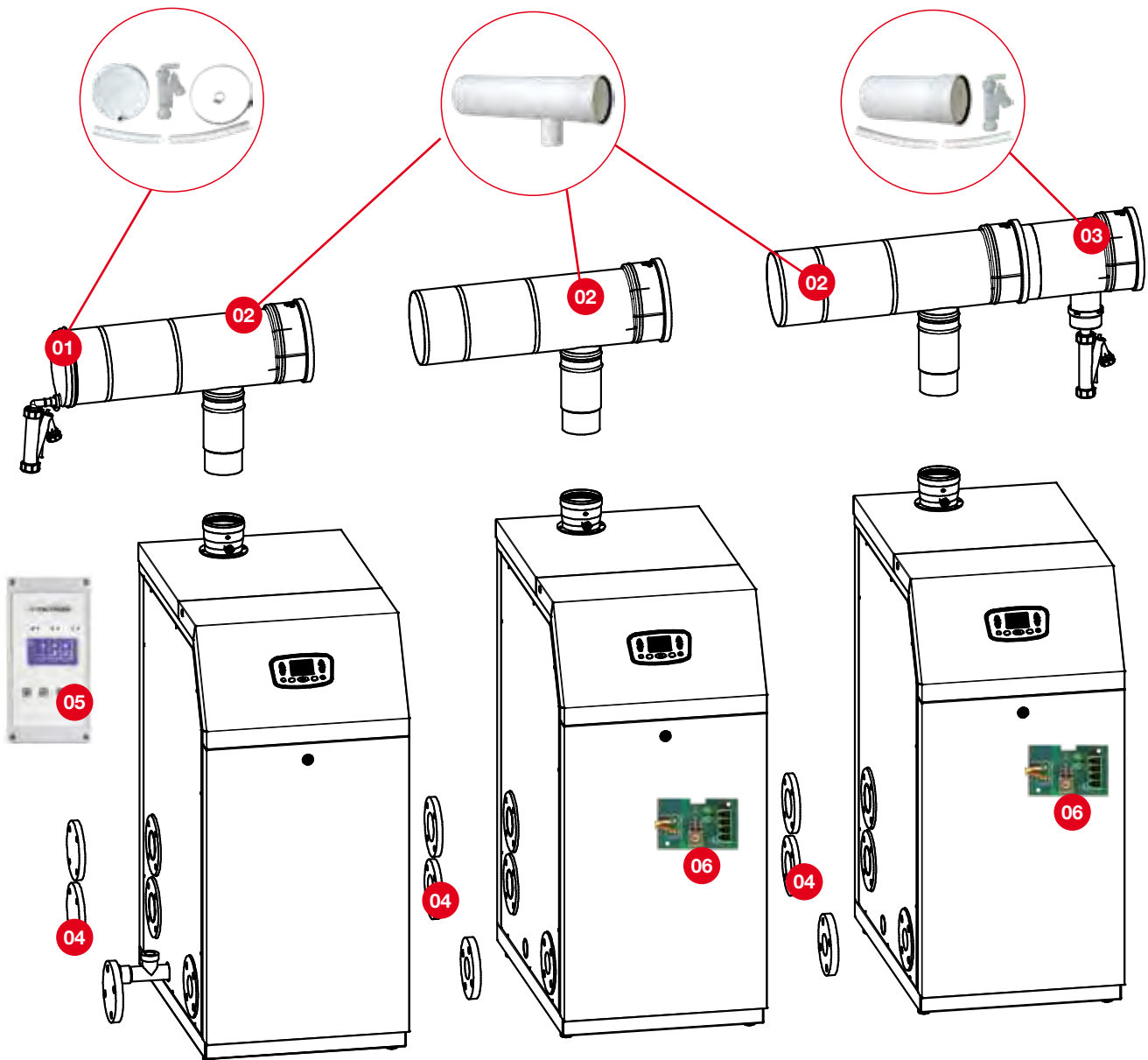
Floor Nr	Plant power	Boilers combination		W x H* x D (mm)	Qn / Qmin (kW)	Ø flue (mm)
3	255 kW	90 K + 90 K + 90 K	1:26	1870x1714x885	255/9.5	100 160
	278 kW	90 K + 90 K + 115 K	1:29		278/9.5	100 200
	301 kW	90 K + 115 K + 115 K	1:31		301/9.5	100 200
	320 kW	160 K + 90 K + 90 K	1:33		320/9.5	100 200
	324 kW	115 K + 115 K + 115 K	1:29		324/11	100 200
	343 kW	160 K + 115 K + 90 K	1:36		343/9.5	100 200
	366 kW	160 K + 115 K + 115 K	1:34		366/11	100 200
	385 kW	160 K + 160 K + 90 K	1:40		385/9.5	100 200
	408 kW	160 K + 160 K + 115 K	1:37		408/11	100 200
	450 kW	160 K + 160 K + 160 K	1:18		450/25	100 200

*Height including flue system

Configuration components

04	Connection kit 3 boilers	401150163	1
05	Cascade management controller english version	401150096	1
	Cascade management controller spanish version	401150133	
06	Interface PCB boiler cascade controller	401150056	1
Flue system			
01	Flue manifold plug kit with siphon	401007004 Ø 160 <270 kW	1
		401007005 Ø 200 >270 kW	1
02	Flue manifold kit	401007025 Ø 160 <270 kW	3
		401007026 Ø 200 >270 kW	3
03	Flue manifold kit with siphon	401007010 Ø 160 <270 kW	1
		401007011 Ø 200 >270 kW	1


3 boilers cascade components



4 boilers cascade configuration



- 4 generators in line (from 340 to 432 kW)
- Modulation system ratio up to 1:45
- Remote management control option
- Cascade management control unit designed by Italtherm to simplify complex plants programming and management
- Advanced management of heat generators in parallel or with the needed power balancing
- Advanced management of the heating circuits up to 5 programmable zones or with single thermoregulation

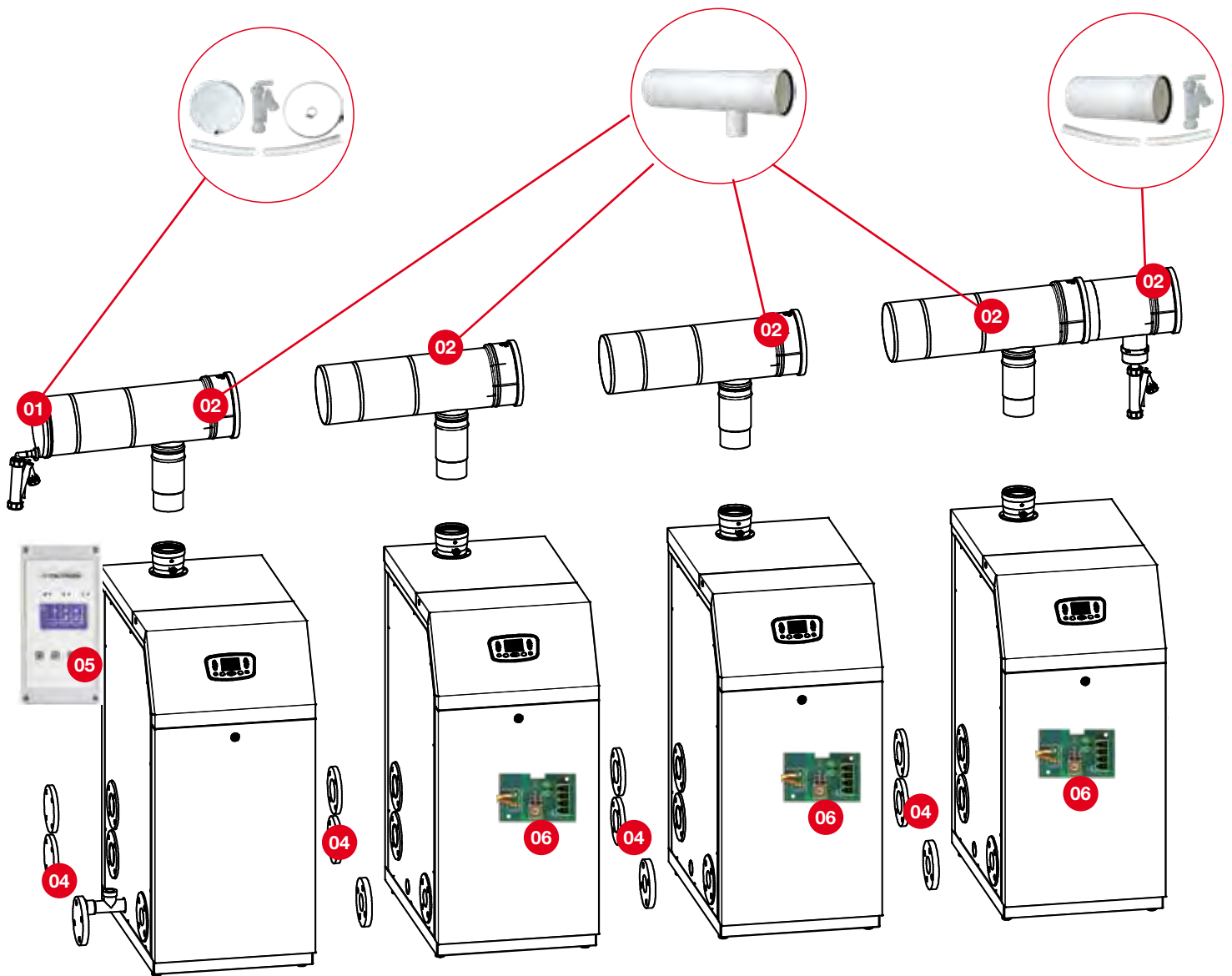
Boilers Nr	Plant power	Boilers combination		W x H* x D (mm)	Qn / Qmin (kW)	Ø flue (mm)
4	340 kW	90 K + 90 K + 90 K + 90 K	1:35	2363x1745x885	340/9.5	100 200
	363 kW	90 K + 90 K + 90 K + 115 K	1:38		363/9.5	100 200
	386 kW	90 K + 90 K + 115 K + 115 K	1:40		386/9.5	100 200
	405 kW	160 K + 90 K + 90 K + 90 K	1:42		405/9.5	100 200
	409 kW	115 K + 115 K + 115 K + 90 K	1:43		409/9.5	100 200
	428 kW	160 K + 115 K + 90 K + 90 K	1:45		428/9.5	100 200
	432 kW	115 K + 115 K + 115 K + 115 K	1:39		432/11	100 200

*Height including flue system

Configuration components

04	Connection kit 4 boilers	401150164	1
05	Cascade management controller english version	401150096	1
	Cascade management controller spanish version	401150133	
06	Interface PCB boiler cascade controller	401150056	1
Flue system			
01	Flue manifold plug kit with siphon	401007004 Ø 160 <270 kW	1
		401007005 Ø 200 >270 kW	1
02	Flue manifold kit	401007025 Ø 160 <270 kW	4
		401007026 Ø 200 >270 kW	4
03	Flue manifold kit with siphon	401007010 Ø 160 <270 kW	1
		401007011 Ø 200 >270 kW	1

4 boilers cascade components



Hydraulic separator kit with balancer**



Balancer < 280 kW		Dimension (WxHxD)
01	Balancer kit	401150031
02	Balancer connection pipe kit	401150037

Balancer > 280 kW		Dimension (WxHxD)
01	Balancer kit	401150048
02	Balancer connection pipe kit	401150049



Balancer+sludge remover-deaerator < 280 kW		Dimension (WxHxD)
01	Balancer kit	401150031
02	Balancer connection pipe kit	401150037
03	Sludge remover-deaerator	401150018

Balancer+sludge remover-deaerator > 280 kW		Dimension (WxHxD)
01	Balancer kit	401150048
02	Balancer connection pipe kit	401150049
03	Sludge remover-deaerator	401150050

Accessories **NOT INCLUDED in the configurations in pages 102 - 104 - 106

Hydraulic separator kit with plate heat exchanger**



Expansion vessel INCLUDED

Plate heat exchanger 180 kW

Insulated plate heat exchanger 180 kW	401150104
Plate heat exchanger connection pipe both left/right side ▶	401150169
Expansion vessel kit 12 L ▶▶	401150113

Plate heat exchanger 322 kW

Insulated plate heat exchanger 322 kW	401150105
Plate heat exchanger connection pipe both left/right side ▶	401150169
Expansion vessel kit 12 L ▶▶	401150113

Plate heat exchanger 412 kW

Insulated plate heat exchanger 412 kW	401150106
Plate heat exchanger connection pipe both left/right side ▶	401150169
Expansion vessel kit 12 L ▶▶	401150113

Plate heat exchanger 501 kW

Insulated plate heat exchanger 501 kW	401150107
Plate heat exchanger connection pipe both left/right side ▶	401150169
Expansion vessel kit 12 L ▶▶	401150113

- ▶ connection pipe both left /right side
- ▶▶ necessary in the plate heat exchanger version

Accessories **NOT INCLUDED in the configurations in pages 102 - 104 - 106

Accessories for cascade configuration**

Electronic for management

401150061
0-10 V interface PCB boiler cascade controller not Open Therm



Hydraulic for condense management**

401150015
Condensate neutralisation tank



401150016
Pump for condensate neutralisation tank



Accessories**

401141014
Expansion vessel 18 l
for CH plant



401141015
Expansion vessel 25 l
for CH plant



401150094
Manifold extension for additional devices
with Expansion vessel connection





Protective liquids for CH plants**

	New Plant		Existing Plant	
	cleaning	protection	cleaning	protection
401150006 5 liters tank		✓		✓
401150007 5 liters tank			✓	
401150008 5 liters tank	✓			



Accessories **NOT INCLUDED in the configurations in pages 102 - 104 - 106

Flue system for cascade configuration**

		< 270 kW	> 270 kW
<p>401007023 Flue extension kit 1m Ø160 mm M/F 50K-70K-90K-115K-160K</p>		✓	
<p>401007024 Flue extension kit 1m Ø200 mm M/F 50K-70K-90K-115K-160K</p>			✓
<p>401007020 - 45° Flue bend kit Ø160 mm M/F 50K-70K-90K-115K-160K</p>		✓	
<p>401007021 - 45° Flue bend kit Ø200 mm M/F 50K-70K-90K-115K-160K</p>			✓
<p>401007017 - 87° Flue bend kit Ø160 mm M/F 50K-70K-90K-115K-160K</p>		✓	
<p>401007018 - 87° Flue bend kit Ø200 mm M/F 50K-70K-90K-115K-160K</p>			✓

Accessories **NOT INCLUDED in the configurations in pages 102 - 104 - 106

Ø 100 mm systems

90 K 115 K 160 K

Split

401006001
Extension m/f kit
L = 2000 mm Ø 100 mm



401006002
Extension m/f kit
L = 1000 mm Ø 100 mm



401006003
Bend kit m/f 90°
Ø 100 mm



401006004
Bend kit m/f 45°
Ø 100 mm



401006005
Vertical flue kit outlet only
Ø 100 mm
L = 1020 mm



401000009
Sloped roof tile kit



401000010
Plain roof tile kit



