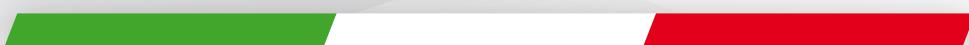


# EXPORT CATALOGUE 2022



 **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 industrial designer Giorgetto Giugiaro, founder of Italdesign Company and creator of the aesthetics of the new Italtherm "City" range boilers.



### Made in Emilia Romagna

The company is located in Piacenza, Emilia Romagna region.

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



### Quality components

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

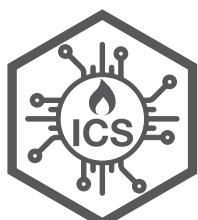


## #italtherminnovation



### 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 making 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 have always the correct air / gas ratio.



### Remote control APP

Italtherm gas boilers can be controlled remotely by APP, allowing the end-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.

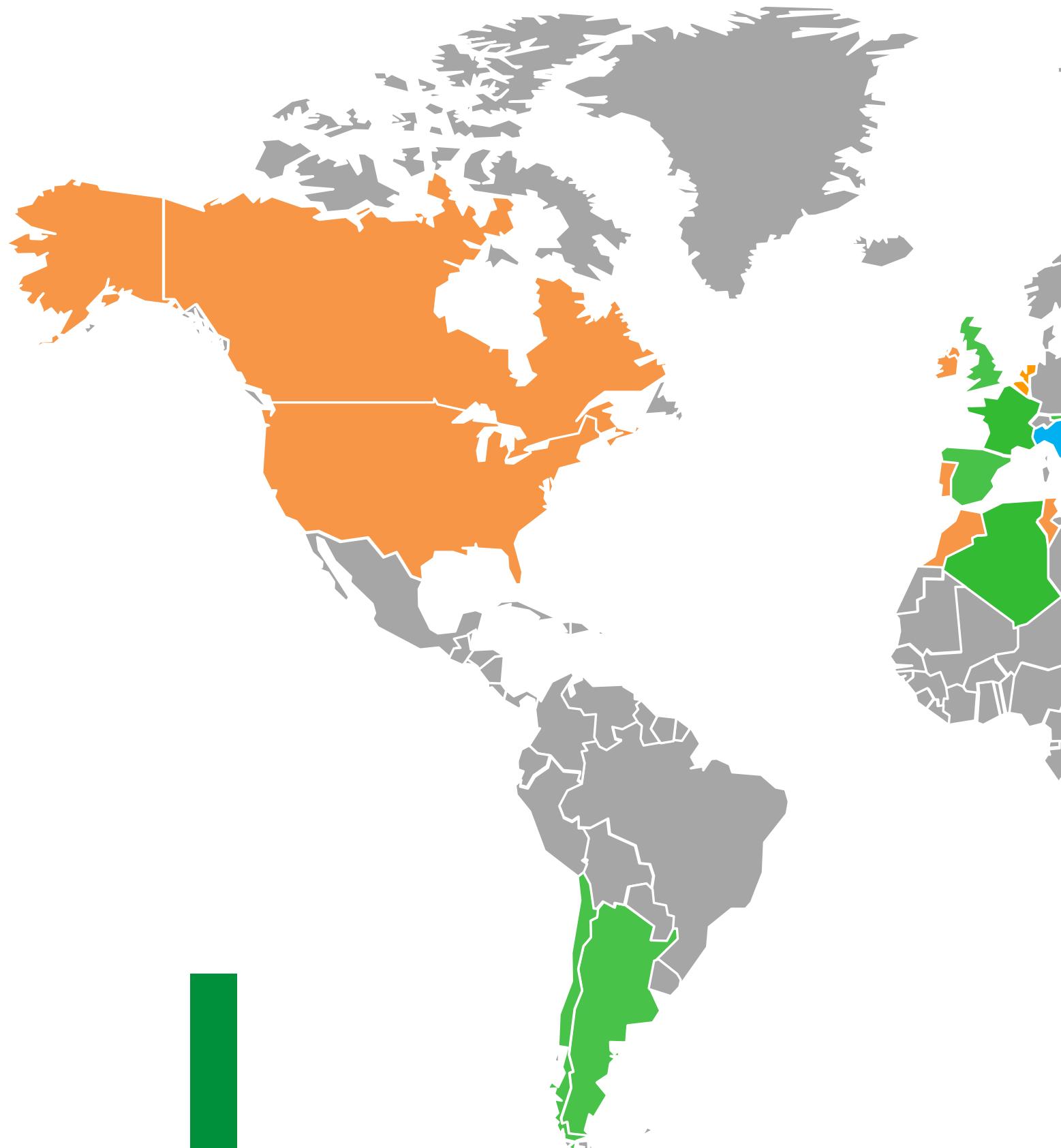
# ITALTHERM HEADQUARTERS



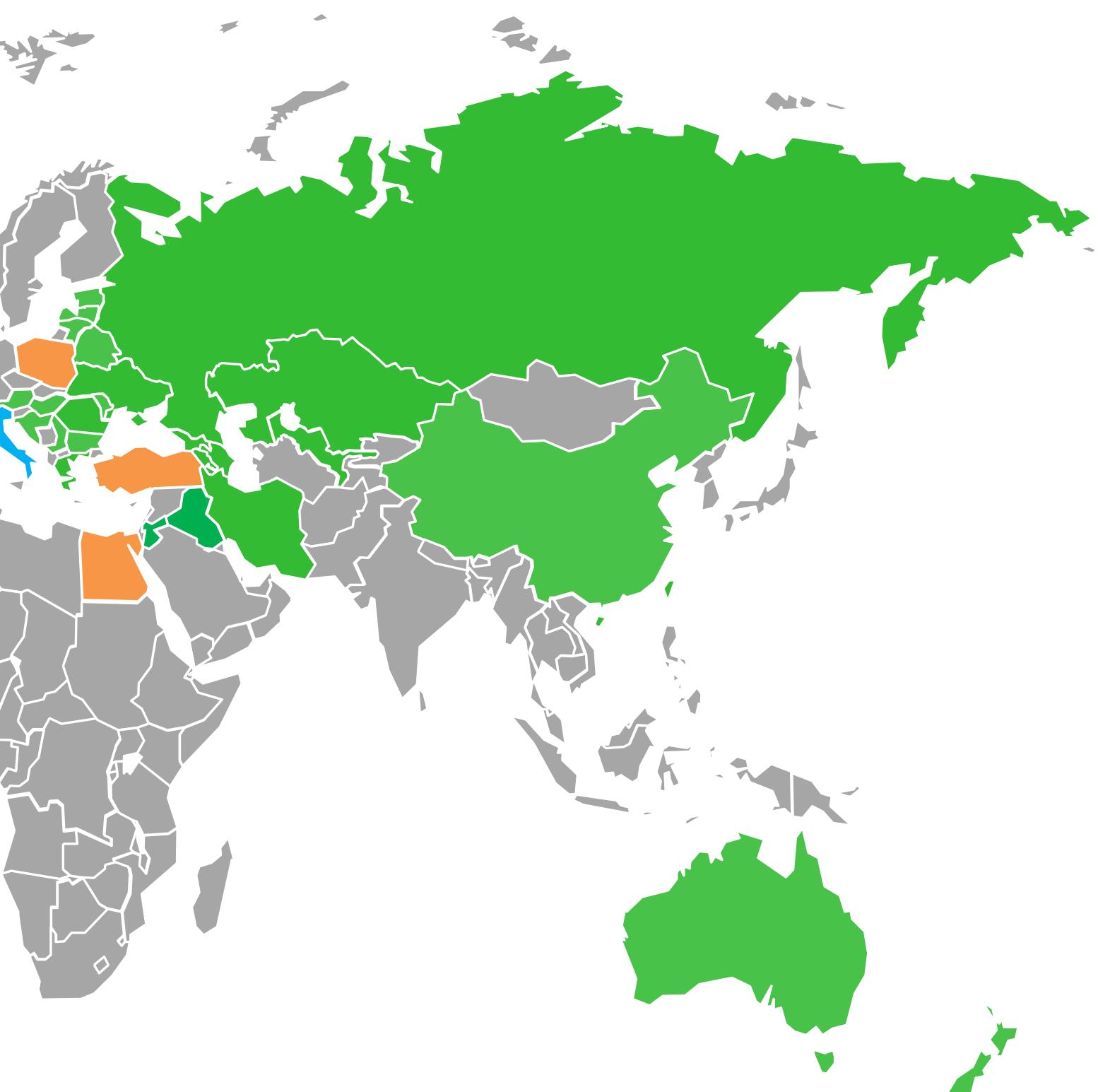


Rooted and developed in Italy, ITALTHERM is a worldwide known company, manufacturing a complete range of GAS BOILERS, reliable and cost-saving for residential buildings.

# STRATEGIC DEVELOPMENT OF ITALTHERM ON WORLD MAP



## WORLD MARKETS

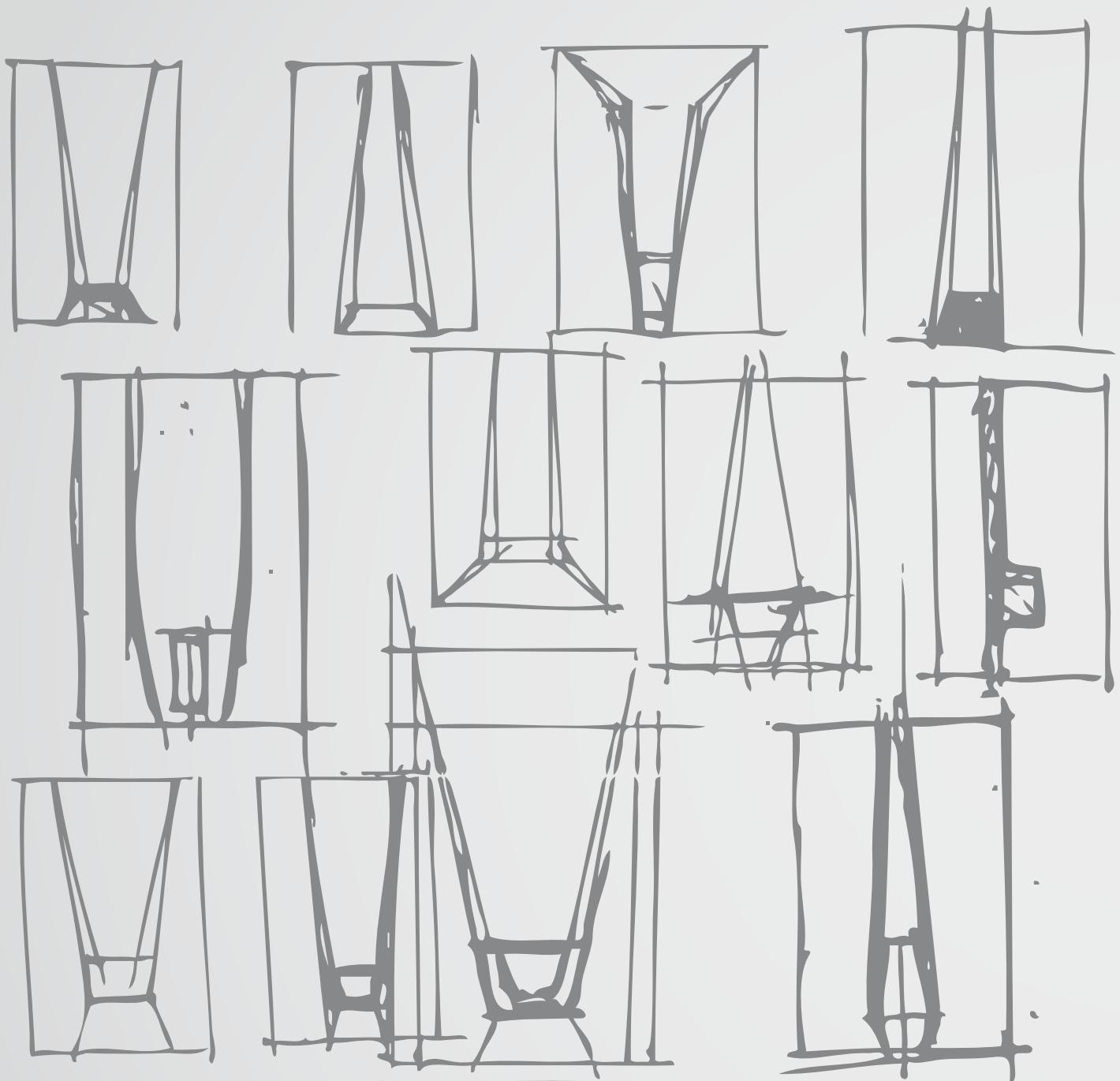


■ Italian market

■ Italtherm export markets

■ New potential markets under negotiation

## TAILORED SOLUTIONS



Great spirit of innovation and particular attention to details define the gas boilers by Italtherm as the point of reference in terms of know-how and technology for the professionals.

Thanks to its 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 its product in every market. An efficient manufacturing system, strict testing procedures, high performance level of its products with all the mandatory certifications, logistics, sales and after sales support make Italtherm the best 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



**C E S M E C**





## Heat pumps and hybrid system

12

## Traditional boilers

36

## Condensing boilers < 35 kW

52

## High Power boilers

84



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

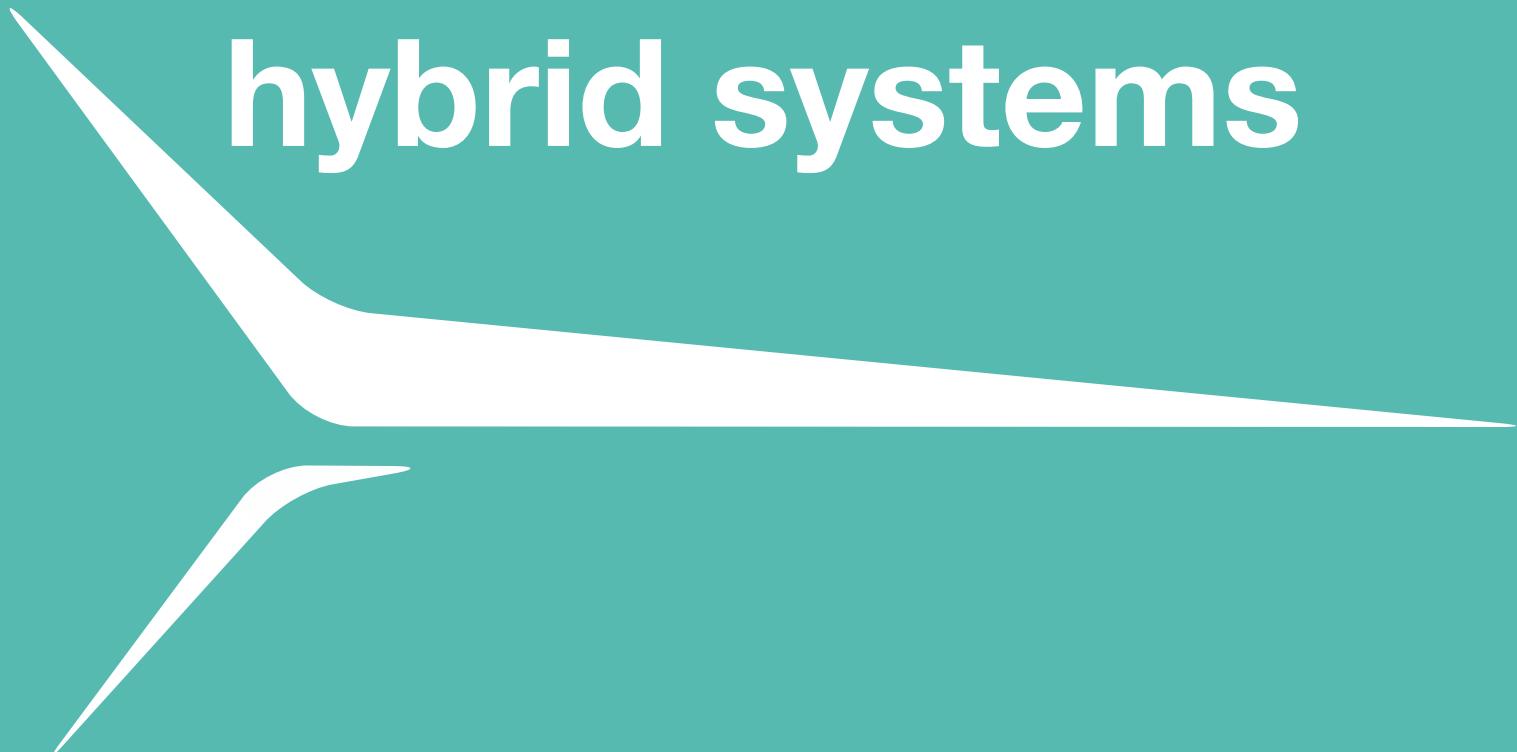


Heating and cooling with water



Photovoltaic

# Heat pumps and hybrid systems



## HEAT PUMPS



### MONOBLOCK

<b>Hydrablock 5M•7M•9M•12M•14M•16M</b>	<b>SINGLE PHASE</b>	✓		✓		✓	✓	✓	15
<b>Hydrablock 14T•16T</b>	<b>TRI PHASE</b>	✓		✓		✓	✓	✓	15
Plant accessories									12
Plant diagrams									19
	<b>HYBRID SYSTEMS FACTORY MADE</b>								21

### FOR INDOOR INSTALLATION

<b>Hydrablock Hybrid TOP K</b> 25K / 5M-7M-9M • 35K/5M-7M-9M-12M		✓	✓	1:20	✓	✓	✓		✓ 21
<b>Hydrablock Hybrid CLASS K</b> 25K / 5M-7M-9M • 30K/5M-7M-9M		✓	✓	1:10	✓	✓	✓		✓ 22
<b>Hydrablock Hybrid CLASS KR</b> 25KR / 5M-7M-9M • 35KR / 9M-12M		✓	✓	1:10	✓	✓		✓	✓ 23
<b>Hydrablock Hybrid SOLAR K</b> 18K / 7M • 35K / 7M-9M		✓	✓	1:10	✓	✓	✓	✓	✓ 24
<b>Hydrablock Hybrid MAX K</b> 27K / 7M		✓	✓	1:10	✓	✓	✓	✓	✓ 25

### FOR OUTDOOR INSTALLATION

<b>Hydrablock Hybrid OPEN K</b> 25K / 5M-7M-9M		✓	✓	1:10	✓	✓	✓		✓ 22
---	--	---	---	------	---	---	---	--	------

### FOR OUTDOOR-ENCASING INSTALLATION

<b>Hydrablock Hybrid BOX K</b> 25K / 5M-7M-9M		✓	✓	1:10	✓	✓	✓		✓ 27
Plant accessories									24
Plant diagrams									33

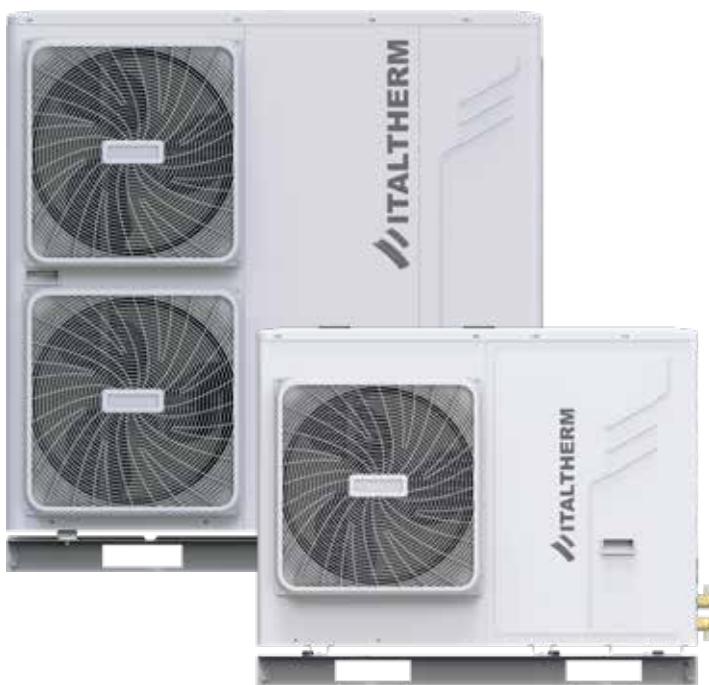
### Legenda:

	Phase		Heat pump		Heating and cooling with water		Modulation ratio		Condensing boiler		Heating		Domestic hot water
	Built in storage tank		Storage tank		Outdoor boilers		Boiler encasing		Thermal solar		Photovoltaic		

# HYDRABLOCK

THE TAILOR-MADE SOLUTION  
FOR NEW BUILDINGS





Remote control  
**INCLUDED**



## MONOBLOCK heat pump for heating, cooling and domestic hot water production.

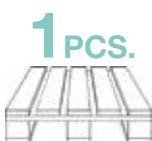
- External temperature wide operating range down to -25 ° C in heating and up to 46 ° C in cooling
- Domestic Hot water production up to 60° C
- Increased modulating circulator
- Antifreeze electric resistance on heat exchanger, expansion vessel and condensate collectors
- Standard equipment: Y filter on system return, flow temperature probe, external probe (pre-assembled), remote control
- Predisposition for management and control:
  - Boiler, additional electrical resistances (for DHW tank and / or CH plant)
  - 1 direct and 1 mixed circuit
  - DHW recirculating pump
  - Solar integration
- 32 pre-set climatic curves for manage the heating and cooling
- SILENT function settable on 2 levels
- Possibility of control through BMS via Modbus
- Smart defrosting
- Smart grid-photovoltaic
- Programmable anti-legionella

## ACCESSORIES

see "Accessories" from page 16 for further optional accessories

<b>Model</b>	<b>W x H x D</b> (mm)	<b>Heating<sup>1</sup></b> (kW)	<b>Cooling<sup>2</sup></b> (kW)	<b>Minimum plant content</b> (l)	<b>Weight</b> (Kg)	<b>EER/COP</b> <sup>(2)</sup> <sup>(1)</sup>	<b>Efficiency class</b> (ERP - EN14825) 35°C	<b>Efficiency class</b> (ERP - EN14825) 55°C
<b>Hydrablock 5M</b>	SINGLE PHASE	1210X945X402	4,65	4,6	25	92	4,82/5	A+++
<b>Hydrablock 7M</b>	SINGLE PHASE	1210X945X402	6,65	6,45	35	92	4,65/4,94	A+++
<b>Hydrablock 9M</b>	SINGLE PHASE	1210X945X402	8,60	8	45	92	4,16/4,6	A+++
<b>Hydrablock 12M</b>	SINGLE PHASE	1404X1414X405	12,30	12,2	60	158	4,78/4,81	A++
<b>Hydrablock 14M</b>	SINGLE PHASE	1404X1414X405	14,10	14	70	172	4,50/4,63	A++
<b>Hydrablock 16M</b>	SINGLE PHASE	1404X1414X405	16,30	15,5	80	172	4,27/4,49	A++
<b>Hydrablock 14T</b>	THREE PHASE	1404X1414X405	14,10	14	70	172	4,50/4,63	A++
<b>Hydrablock 16T</b>	THREE PHASE	1404X1414X405	16,30	15,5	80	172	4,27/4,49	A++

<sup>1)</sup> Water temp. 35/30°C - Air temp. 7°C (d.b.), U.R. 85% <sup>2)</sup> Water temp. 18/23°C - Air temp. 35°C (d.b.) - performance obtained in compliance with the UNI EN 14511

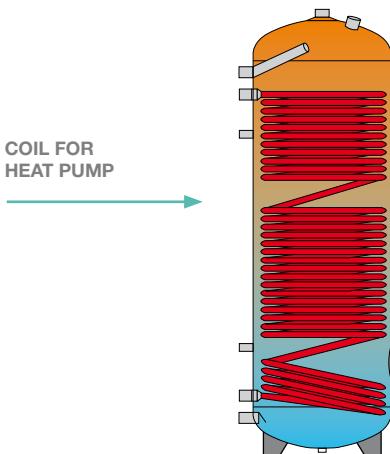


# HYDRABLOCK system complements

## Tank for DHW production

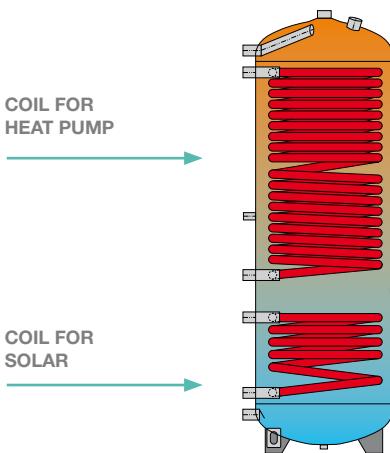
High energy efficiency tank (70mm of insulation), essential for domestic hot water production. The coils have been sized according to the generator type used

### SINGLE COIL (HEAT PUMP)



Model	Energy efficiency class	Volume (l)	Coil surface (m²)	Dimensions h x Ø (mm)
MONO HP tank 200 for HP 5/7/9	B	190	3 (PDC)	1215 x 640
MONO HP tank 300	B	263	4 (PDC)	1615 x 640

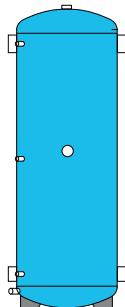
### DOUBLE COIL (HEAT PUMP AND SOLAR)



Modello	Energy efficiency class	Volume (l)	Coil surface (m²)	Dimensions h x Ø (mm)
SOLAR heat pump DUPLEX tank 300	B	260	3,7 sup.(HP) 1,2 low.(SOLAR)	1615x640
SOLAR heat pump DUPLEX tank 500	B	455	5,2 sup.(HP) 1,8 low.(SOLAR)	1705x790

## Inertial storage tank for technical water

These tanks ensure the correct operation during heating and cooling mode, guaranteeing the right water quantity always available thus reducing the on-off heat pump cycles and providing an energy stock for the plant side. The water stock amount depends on the heat pump power. (The suggested water stock is about from 5 to 10 l per kW depending on the system).



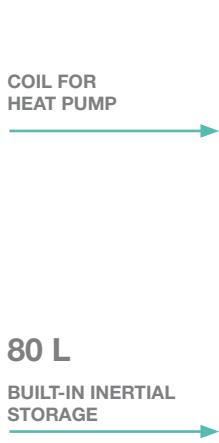
Model	Energy efficiency class	Dimensions h x Ø (mm)
25 L inertial storage	A	451 x 380
50 L inertial storage	B	935 x 400
100 L inertial storage	B	1095 x 500

# HYDRABLOCK system complements

## DHW production boilers with integrated inertial storage for heating

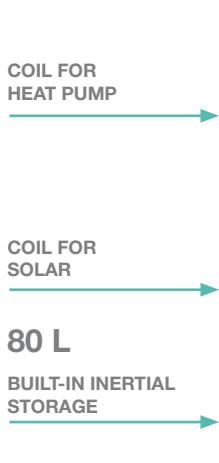
Thanks to the built-in heating inertial storage tank, these accessories for DHW also ensure the correct heating mode heat pump operation, avoiding the addition of further storage tanks so as to reduce the overall system dimensions.

### SINGLE COIL



Model	Energy efficiency class	Volume (l)	Coil surface (m²)	Dimensions h x Ø (mm)
MONO HP tank 300-80	B	270	3,3	1925 x 690

### DOUBLE COIL



Model	Energy efficiency class	Volume (l)	Coil surface (m²)	Dimensions h x Ø (mm)
DUPLEX HP SOLAR tank 300-80	B	270	2,8 sup.(HP) 0,9 low.(SOLAR)	1925x690

## Inertial storage tank for technical water



NEW

Model	Energy efficiency class	Dimensions h x Ø (mm)
50 L Compact inertial storage with - air separator - two-zone distribution manifold - micro-perforated diaphragm for correct fluid stratification	B	W x H x D 240x520x860

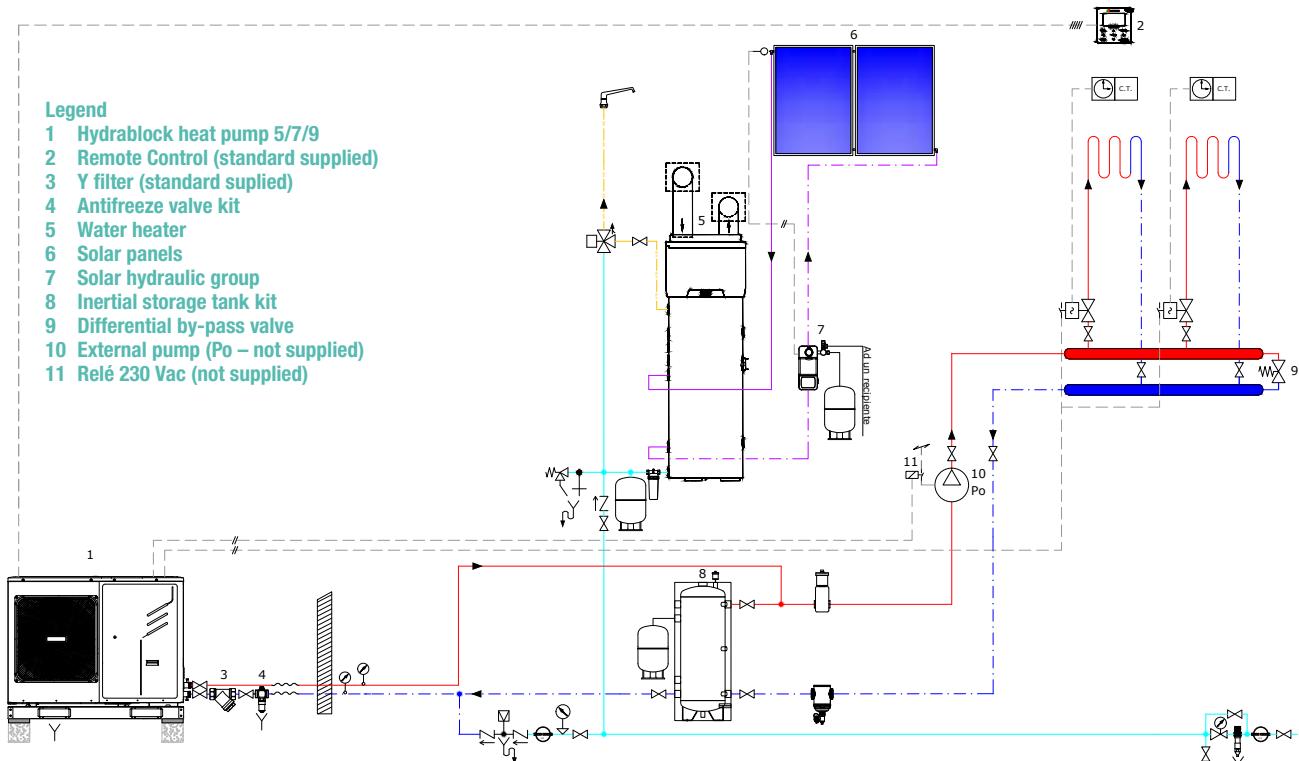
# HYDRABLOCK system complements

## Other accessories

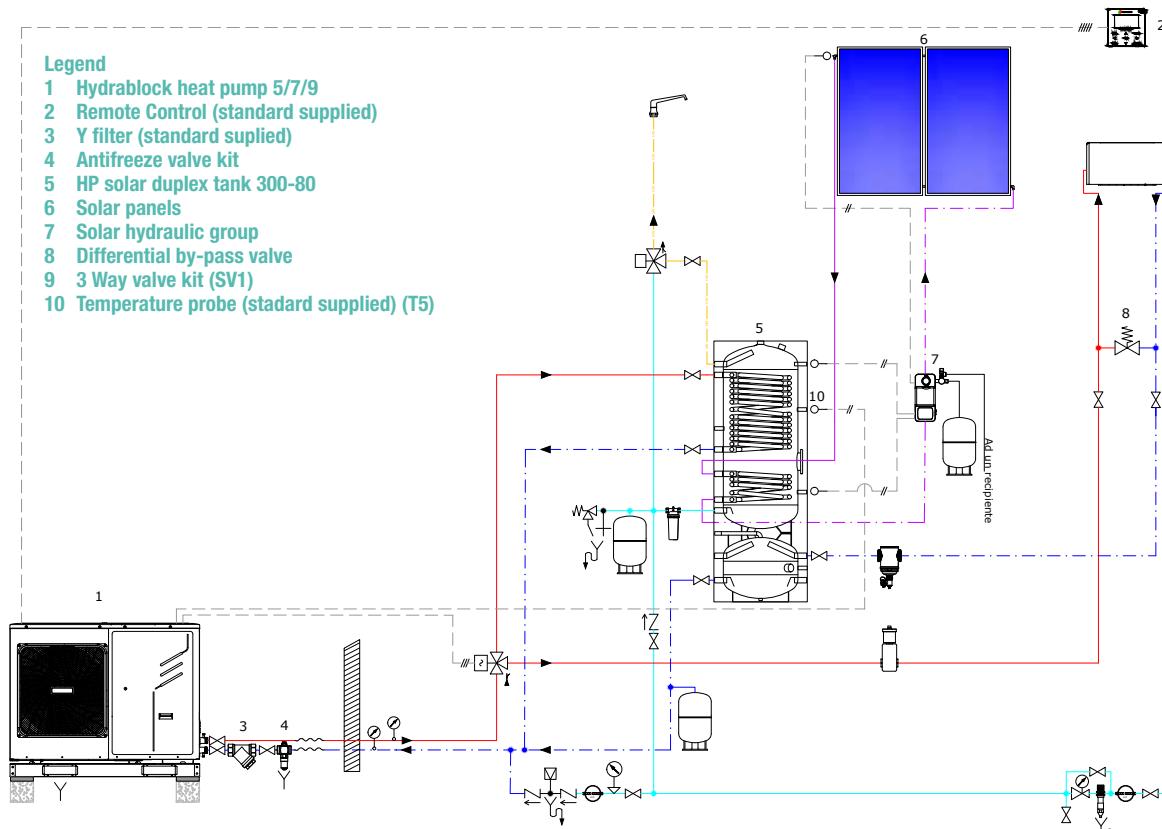
<i>Model</i>	
	
<b>Tank resistance 1.5 kW</b>	
<b>Tank resistance 2 kW</b>	
<b>Tank resistance 3 kW</b>	
<i>Model</i>	
<b>Temperature probe Hydrablock</b>	
<b>Anti-freeze valve 1" for HP 5M-7M-9M</b>	Brass body with diameter connections 1"
<b>Anti-freeze valve 1" 1/4 for HP 12M-14M-14T-16M-16T</b>	Brass body with diameter connections 1"1/4
<b>By-pass valve HP</b>	diameter connections da 3/4"
<b>Diverter valve kit HP RUNNING OUT</b>	Complete with thermal insulation and reductions M 1 "1/4 - F 1" To be used to connect the HP to the DHW tank
<b>Diverter valve kit HP 1"1/4</b>	To be used to connect the HP to the DHW tank
<b>Micro bubble separator kit</b>	connections 1" 1/4
<b>Micro-impurity separator kit</b>	connections 1" 1/4

# Plant diagrams

HP + WATER HEATER + THERMAL SOLAR



PDC + THERMAL SOLAR



indicative system diagram, does not replace the technical design of a designer

# HYDRABLOCK HYBRID

THE TAILOR-MADE SOLUTION  
FOR RETROFIT



# HYDRABLOCK HYBRID TOP K



Hydrablock remote control  
**INCLUDED**

**Compact hybrid appliance: monobloc heat pump integrated with indoor condensing boiler for heating, cooling and domestic hot water production**

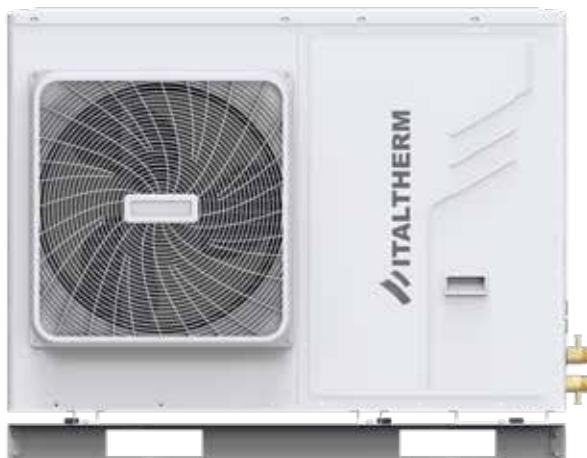
- Hybrid appliance factory made
- Boiler Authorized for wall flue discharge
- It adapts to existing heating systems (radiant floor, radiators, fan coils)
- Simultaneous working possibility of both generators
- Indoor condensig boiler with:
  - Modulation ratio 1:20 (35 K version)
  - Condensing Stainless steel heat exchanger with extra wide water passages
  - ICS (intelligent combustion system)
  - It guarantees a perfect combustion in all conditions
- High efficiency heat pump A+++
- Integration with photovoltaic and heat pump DHW preheating

Model			Qn/Qmin Boiler (kW)	Heating <sup>1</sup> (kW)	Cooling <sup>2</sup> (kW)	EER/COP (2) (1)	Energy efficiency class (ERP - EN14825)			
							35°C	55°C		
HYDRABLOCK Hybrid TOP 25K / 5M	SINGLE PHASE	1:16	25/1,6	4,65	4,60	4,82/5	A+++	A++	XL-A	
HYDRABLOCK Hybrid TOP 25K / 7M	SINGLE PHASE	1:16	25/1,6	6,65	6,45	4,65/4,94	A+++	A++	XL-A	
HYDRABLOCK Hybrid TOP 25K / 9M	SINGLE PHASE	1:16	25/1,6	8,6	8	4,16/4,6	A+++	A++	XL-A	
HYDRABLOCK Hybrid TOP 35K / 5M	SINGLE PHASE	1:20	33/1,6	4,65	4,6	4,82/5	A+++	A++	XXL-A	
HYDRABLOCK Hybrid TOP 35K / 7M	SINGLE PHASE	1:20	33/1,6	6,65	6,45	4,65/4,94	A+++	A++	XXL-A	
HYDRABLOCK Hybrid TOP 35K / 9M	SINGLE PHASE	1:20	33/1,6	8,6	8	4,16/4,60	A+++	A++	XXL-A	
HYDRABLOCK Hybrid TOP 35K / 12M	SINGLE PHASE	1:20	33/1,6	12,3	12,2	4,78/4,81	A++	A++	XL-A	

1) Water temp. 35/30°C - Air temp. 7°C (d.b.), U.R. 85% 2) Water temp. 18/23°C - Air temp. 35°C (d.b.) - performance obtained in compliance with the UNI EN 14511

ACCESSORIES	Page
Tanks	28
Inertial storage tanks	30
Other accessories	31
Boiler accessories	75

# HYDRABLOCK HYBRID CLASS K



Hydrablock remote control  
**INCLUDED**



**Compact hybrid appliance: monoblock heat pump integrated with indoor condensing boiler for heating, cooling and domestic hot water production**

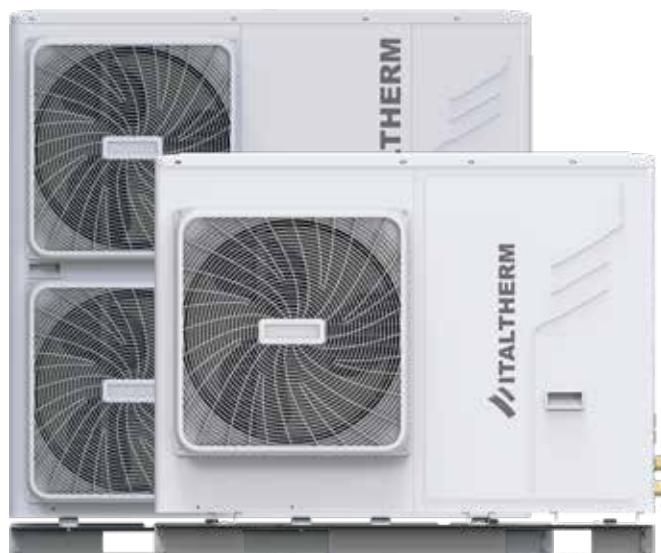
- Hybrid appliance factory made
- Boiler Authorized for wall flue discharge
- It adapts to existing heating systems (radiant floor, radiators, fan coils)
- Simultaneous working possibility of both generators
- Indoor condensing boiler with:
  - Modulation ratio 1:10
  - Condensing Stainless steel heat exchanger with extra wide water passages
  - ICS (intelligent combustion system)
  - It guarantees a perfect combustion in all conditions
- High efficiency heat pump A+++
- Integration with photovoltaic and heat pump DHW preheating

Model			Qn/Qmin Boiler (kW)	Heating <sup>1</sup> (kW)	Cooling <sup>2</sup> (kW)	EER/COP (2) (1)	Energy efficiency class (ERP - EN14825)		
							35°C	55°C	F <sub>m</sub>
HYDRABLOCK Hybrid CLASS 25K / 5M	SINGLE PHASE	1:10	20/2,5	4,65	4,60	4,82/5	A+++	A++	XL-A
HYDRABLOCK Hybrid CLASS 25K / 7M	SINGLE PHASE	1:10	20/2,5	6,65	6,45	4,65/4,94	A+++	A++	XL-A
HYDRABLOCK Hybrid CLASS 25K / 9M	SINGLE PHASE	1:10	20/2,5	8,6	8	4,16/4,6	A+++	A++	XL-A
HYDRABLOCK Hybrid CLASS 30K / 5M	SINGLE PHASE	1:10	24/3	4,65	4,6	4,82/5	A+++	A++	XL-A
HYDRABLOCK Hybrid CLASS 30K / 7M	SINGLE PHASE	1:10	24/3	6,65	6,45	4,65/4,94	A+++	A++	XL-A
HYDRABLOCK Hybrid CLASS 30K / 9M	SINGLE PHASE	1:10	24/3	8,6	8	4,16/4,6	A+++	A++	XL-A

1) Water temp. 35/30°C - Air temp. 7°C (d.b.), U.R. 85% 2) Water temp. 18/23°C - Air temp. 35°C (d.b.) - performance obtained in compliance with the UNI EN 14511

ACCESSORIES	Page
Tanks	28
Inertial storage tanks	30
Other accessories	31
Boiler accessories	75

# HYDRABLOCK HYBRID CLASS KR



Hydrablock remote control  
**INCLUDED**

**Compact hybrid appliance: monobloc heat pump integrated with indoor condensing boiler for heating, cooling and domestic hot water production with remote storage tank**

- Hybrid appliance factory made
- Boiler Authorized for wall flue discharge
- It adapts to existing heating systems (radiant floor, radiators, fan coils)
- Simultaneous working possibility of both generators
- Indoor condensig boiler with:
  - Modulation ratio 1:10
  - Condensing Stainless steel heat exchanger with extra wide water passages
  - ICS (intelligent combustion system)
  - It guarantees a perfect combustion in all conditions
- High efficiency heat pump A+++
- integration with photovoltaic and heat pump DHW preheating

Model			On/Qmin Boiler (kW)	Heating <sup>1</sup> (kW)	Cooling <sup>2</sup> (kW)	EER/COP (2) (1)	Energy efficiency class (ERP - EN14825)		
							35°C	55°C	F <sub>m</sub>
<b>HYDRABLOCK Hybrid CLASS 25KR / 5M</b>	SINGLE PHASE	1:10	20/2,5	4,65	4,6	4,82/5	A+++	A++	-
<b>HYDRABLOCK Hybrid CLASS 25KR / 7M</b>	SINGLE PHASE	1:10	20/2,5	6,65	6,45	4,65/4,94	A+++	A++	-
<b>HYDRABLOCK Hybrid CLASS 25KR / 9M</b>	SINGLE PHASE	1:10	20/2,5	8,6	8	4,16/4,6	A+++	A++	-
<b>HYDRABLOCK Hybrid CLASS 35KR / 9M</b>	SINGLE PHASE	1:10	28/3,5	8,6	8	4,16/4,6	A+++	A++	-
<b>HYDRABLOCK Hybrid CLASS 35KR / 12M</b>	SINGLE PHASE	1:10	28/3,5	12,3	12,2	4,78/4,81	A++	A++	-

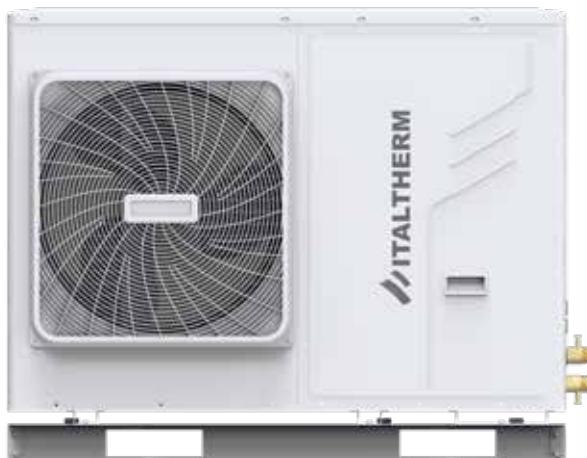
1) Water temp. 35/30°C - Air temp. 7°C (d.b.), U.R. 85% 2) Water temp. 18/23°C - Air temp. 35°C (d.b.) - performance obtained in compliance with the UNI EN 14511

## ACCESSORIES

	Page
Tanks	28
Inertial storage tanks	30
Other accessories	31
Boiler accessories	75

**MANDATORY** 50 L inertial storage tank

# HYDRABLOCK HYBRID SOLAR K



Hydrablock remote control  
**INCLUDED**



**Compact hybrid appliance: monobloc heat pump integrated with indoor condensing boiler with built-in DHW 200l tank +solar group, for heating, cooling and domestic hot water production**

- Hybrid appliance factory made
- Boiler Authorized for wall flue discharge
- It adapts to existing heating systems (radiant floor, radiators, fan coils)
- Simultaneous working possibility of both generators
- Indoor condensing boiler with:
  - Modulation ratio 1:10
  - Condensing Stainless steel heat exchanger with extra wide water passages
  - ICS (intelligent combustion system)
  - It guarantees a perfect combustion in all conditions
- High efficiency heat pump A+++
- integration with photovoltaic and heat pump DHW preheating

Model			On/Off in Boiler (kW)	Heating <sup>1</sup> (kW)	Cooling <sup>2</sup> (kW)	EER/COP <small>(2) (1)</small>	Energy efficiency class (ERP - EN14825) 35°C  55°C	
<b>HYDRABLOCK Hybrid SOLAR 18K / 7M</b>	SINGLE PHASE	1:10	17,8/1,7	6,65	6,45	4,65/4,94	A+++  A++	XXL-B
<b>HYDRABLOCK Hybrid SOLAR 35K / 7M</b>	SINGLE PHASE	1:10	33/3,4	6,65	6,45	4,65/4,94	A+++  A++	XXL-B
<b>HYDRABLOCK Hybrid SOLAR 35K / 9M</b>	SINGLE PHASE	1:10	33/3,4	8,6	8	4,16/4,6	A+++  A++	XXL-B

1) Water temp. 35/30°C - Air temp. 7°C (d.b.), U.R. 85% 2) Water temp. 18/23°C - Air temp. 35°C (d.b.) - performance obtained in compliance with the UNI EN 14511

ACCESSORIES	Page	
Inertial storage tanks	30	<b>MANDATORY</b> 50 L inertial storage tank
Other accessories	31	
Boiler accessories	75	

# HYDRABLOCK HYBRID MAX K



**Compact hybrid appliance: monobloc heat pump integrated with indoor condensing boiler with built-in DHW 60l tank for heating, cooling and domestic hot water**

- Hybrid appliance factory made
- Boiler Authorized for wall flue discharge
- It adapts to existing heating systems (radiant floor, radiators, fan coils)
- Simultaneous working possibility of both generators
- Indoor condensig boiler with:
  - Modulation ratio 1:10
  - Condensing Stainless steel heat exchanger with extra wide water passages
  - ICS (intelligent combustion system)
  - It guarantees a perfect combustion in all conditions
- High efficiency heat pump A+++
- integration with photovoltaic and heat pump DHW preheating



Hydrablock remote control  
**INCLUDED**

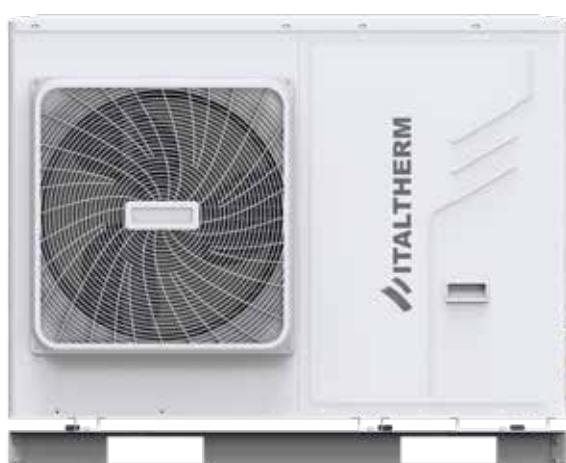


Model			On/Qmin Boiler (kW)	Heating <sup>1</sup> (kW)	Cooling <sup>2</sup> (kW)	EER/COP <small>(2) (1)</small>	Energy efficiency class (ERP - EN14825) <small>35°C 55°C</small>
<b>HYDRABLOCK Hybrid MAX 27K / 7M</b>	SINGLE PHASE	1:10	26/2,6	6,65	6,45	4,65/4,94	A+++ A++ XXL-A

**1)** Water temp. 35/30°C - Air temp. 7°C (d.b.), U.R. 85% **2)** Water temp. 18/23°C - Air temp. 35°C (d.b.) - performance obtained in compliance with the UNI EN 14511

ACCESSORIES	Page
Inertial storage tanks	30
Other accessories	31
Boiler accessories	75

# HYDRABLOCK HYBRID OPEN K



**Compact hybrid appliance: monobloc heat pump integrated with outdoor condensing boiler for heating, cooling and domestic hot water production**

- Hybrid appliance factory made
- Boiler Authorized for wall flue discharge
- It adapts to existing heating systems (radiant floor, radiators, fan coils)
- Simultaneous working possibility of both generators
- Indoor condensig boiler with:
  - Modulation ratio 1:10
  - Condensing Stainless steel heat exchanger with extra wide water passages
  - ICS (intelligent combustion system)
  - It guarantees a perfect combustion in all conditions
- High efficiency heat pump A+++
- integration with photovoltaic and heat pump DHW preheating



Hydrablock remote control  
**INCLUDED**



Remote control  
**INCLUDED**

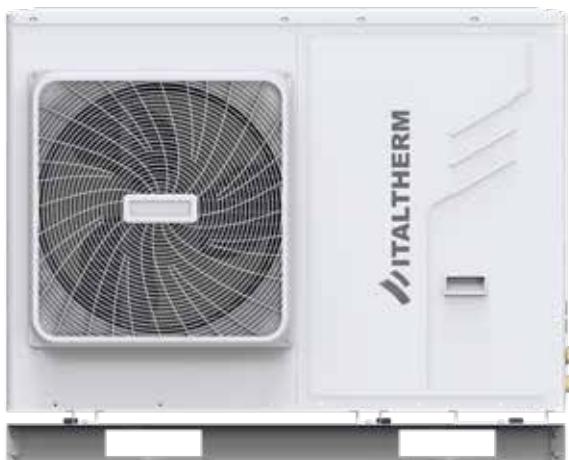


Model			Qn/Qmin Boiler (kW)	Heating <sup>1</sup>		Cooling <sup>2</sup>		EER/COP			Energy efficiency class (ERP - EN14825)		
				(kW)	(kW)	(kW)	(kW)	(2)	(1)	35°C	55°C	IP	
<b>HYDRABLOCK Hybrid OPEN 25K / 5M</b>			SINGLE PHASE	1:10	20/2,5	4,65	4,6	4,82/5		A+++	A++	XL-A	
<b>HYDRABLOCK Hybrid OPEN 25K / 7M</b>			SINGLE PHASE	1:10	20/2,5	6,65	6,45	4,65/4,94		A+++	A++	XL-A	
<b>HYDRABLOCK Hybrid OPEN 25K / 9M</b>			SINGLE PHASE	1:10	20/2,5	8,6	8	4,16/4,6		A+++	A++	XL-A	

1) Water temp. 35/30°C - Air temp. 7°C (d.b.), U.R. 85% 2) Water temp. 18/23°C - Air temp. 35°C (d.b.) - performance obtained in compliance with the UNI EN 14511

ACCESSORIES	Page
Tanks	28
Inertial storage tanks	30
Other accessories	31
Boiler accessories	75

# HYDRABLOCK HYBRID BOX K



**Compact hybrid appliance: monobloc heat pump integrated with encasing condensing boiler for heating, cooling and domestic hot water production**

- Hybrid appliance factory made
- Boiler Authorized for wall flue discharge
- It adapts to existing heating systems (radiant floor, radiators, fan coils)
- Simultaneous working possibility of both generators
- Indoor condensig boiler with:
  - Modulation ratio 1:10
  - Condensing Stainless steel heat exchanger with extra wide water passages
  - ICS (intelligent combustion system)
  - It guarantees a perfect combustion in all conditions
- High efficiency heat pump A+++
- integration with photovoltaic and heat pump DHW preheating



Hydrablock remote control  
**INCLUDED**



Remote control  
**INCLUDED**



Model			Qn/Qmin Boiler (kW)	Heating <sup>1</sup>		Cooling <sup>2</sup>		EER/COP			Energy efficiency class (ERP - EN14825)		
				(kW)	(kW)	(kW)	(kW)	(2)	(1)	35°C	55°C	FL	
HYDRABLOCK Hybrid BOX 25K / 5M		SINGLE PHASE	1:10	20/2,5	4,65	4,6	4,82/5	A+++	A++			XL-A	
HYDRABLOCK Hybrid BOX 25K / 7M		SINGLE PHASE	1:10	20/2,5	6,65	6,45	4,65/4,94	A+++	A++			XL-A	
HYDRABLOCK Hybrid BOX 25K / 9M		SINGLE PHASE	1:10	20/2,5	8,6	8	4,16/4,6	A+++	A++			XL-A	

**1)** Water temp. 35/30°C - Air temp. 7°C (d.b.), U.R. 85% **2)** Water temp. 18/23°C - Air temp. 35°C (d.b.) - performance obtained in compliance with the UNI EN 14511

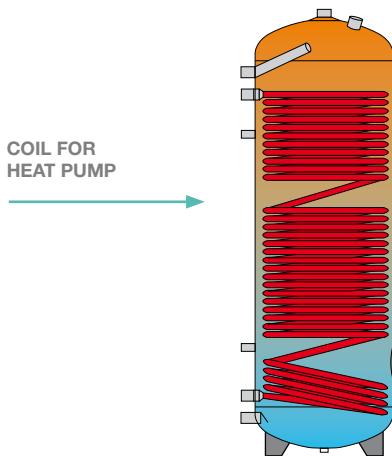
ACCESSORIES	Page
Tanks	28
Inertial storage tanks	30
Other accessories	31
Boiler accessories	75

# HYDRABLOCK system complements

## Tank for DHW production (except Class KR)

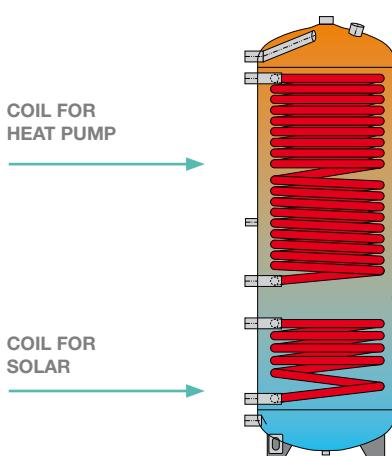
The boilers of these hybrid systems do not require storage for domestic hot water. The tank below can be installed to pre-heat the domestic hot water with other heat sources (heat pump and / or solar).

### SINGLE COIL (HEAT PUMP)



Model	Energy efficiency class	Volume (l)	Coil surface (m²)	Dimensions h x Ø (mm)
MONO HP tank 200 for HP 5/7/9	B	190	3 (HP)	1215 x 640
MONO HP tank 300	B	263	4 (HP)	1615 x 640

### DOUBLE COIL (HEAT PUMP AND SOLAR)



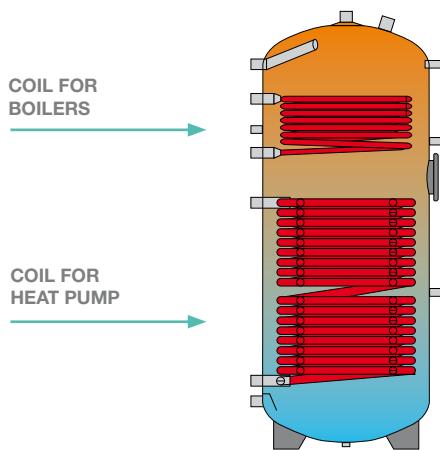
Model	Energy efficiency class	Volume (l)	Coil surface (m²)	Dimensions h x Ø (mm)
SOLAR heat pump DUPLEX tank 300	B	260	3,7 sup.(HP) 1,2 low.(SOLAR)	1615 x 640
SOLAR heat pump DUPLEX tank 500	B	455	5,2 sup.(HP) 1,8 low.(SOLAR)	1705 x 790

# HYDRABLOCK system complements

## Tank for DHW production (only for Class KR)

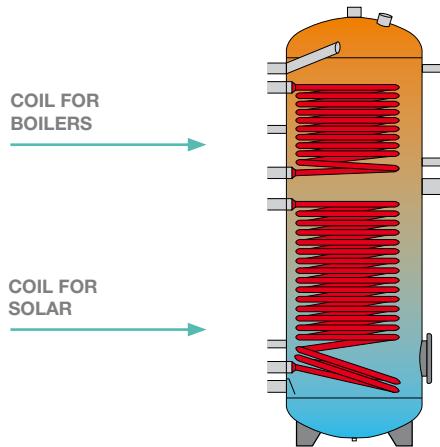
High energy efficiency tank (70mm of insulation), essential for domestic hot water production. The coils have been sized according to the generator type used.

### DOUBLE COIL (BOILER AND HEAT PUMP)



Model	Energy efficiency class	Volume (l)	Coil surface (m²)	Dimensions h x Ø (mm)
DUPLEX HP SOLAR tank 300	B	280	0,7 sup. (BOILER) 3,7 low. (HP)	1615 x 640

### DOUBLE COIL (BOILER AND SOLAR)



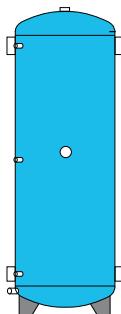
Model	Energy efficiency class	Volume (l)	Coil surface (m²)	Dimensions h x Ø (mm)
DUAL C 200	C	95	0,5 sup. (BOILER) 1,5 low. (SOLAR)	1215 x 600
DUAL C 300	C	130	1,1 sup. (BOILER) 1,8 low. (SOLAR)	1615 x 600
DUAL C 500	C	150	0,9 sup. (BOILER) 1,8 low. (SOLAR)	1690 x 750

# HYDRABLOCK system complements

## Inertial storage tank for technical water

These inertial tanks ensure the correct operation during heating and cooling mode, guaranteeing the right water quantity always available thus reducing the on-off heat pump cycles.

Model	Energy efficiency class	Dimensions <i>h x Ø (mm)</i>
-------	-------------------------	---------------------------------



### 50 L Compact inertial storage

- indoor installation
- ground / wall bracket

B

935 x 400



NEW

### 50 L Compact inertial storage with

- air separator
- two-zone distribution manifold
- micro-perforated diaphragm for correct fluid stratification

B

W x H x D  
440x887x220



NEW

### Encasing Inertial storage tank for HP 5/7 kW

Composed of:

- Encasing Box

W x H x D  
550x1140x250

### -Inertial storage 20 l tank

With included:

- Electronic modulating pump
- sludge magnetic remover
- sectioning taps
- electrical connection box

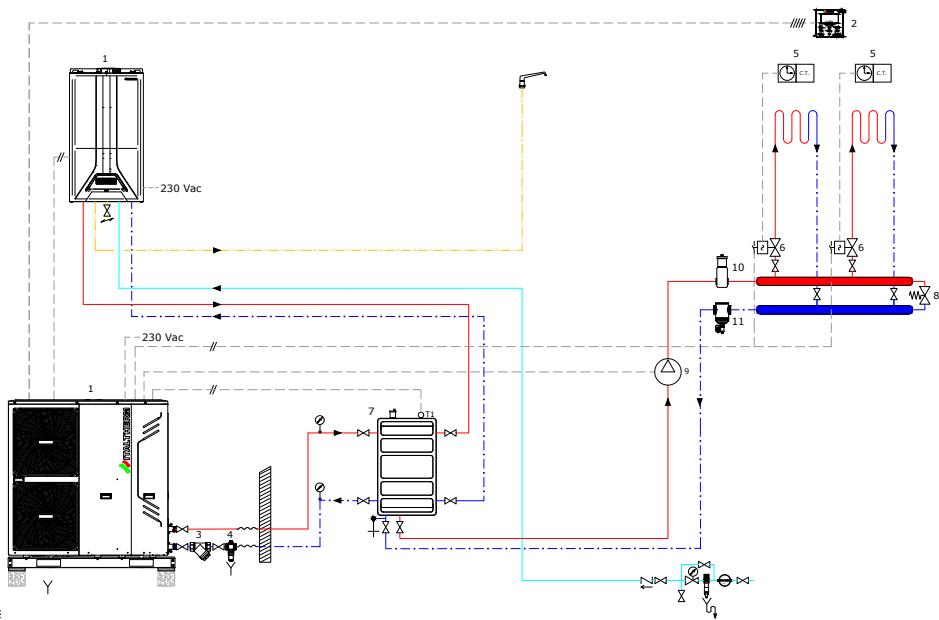
# HYDRABLOCK system complements

## Other accessories

Model	
Hydrablock temperature probe	
Antifreeze valve 1" for HP 5M-7M-9M	Brass body with diameter connections 1"
 <b>Antifreeze valve 1" 1/4 for HP 12M-14M-14T-16M-16T</b>	Brass body with diameter connections 1"1/4
By-pass valve HP	diameter connections da 3/4"
Diverter valve kit HP <b>RUNNING OUT</b>	Complete with thermal insulation and reductions M 1 "1/4 - F 1" To be used to connect the HP to the DHW tank
 <b>3 way diverter valve HP 1"1/4</b>	To be used to connect the HP to the DHW tank

# Plant diagrams

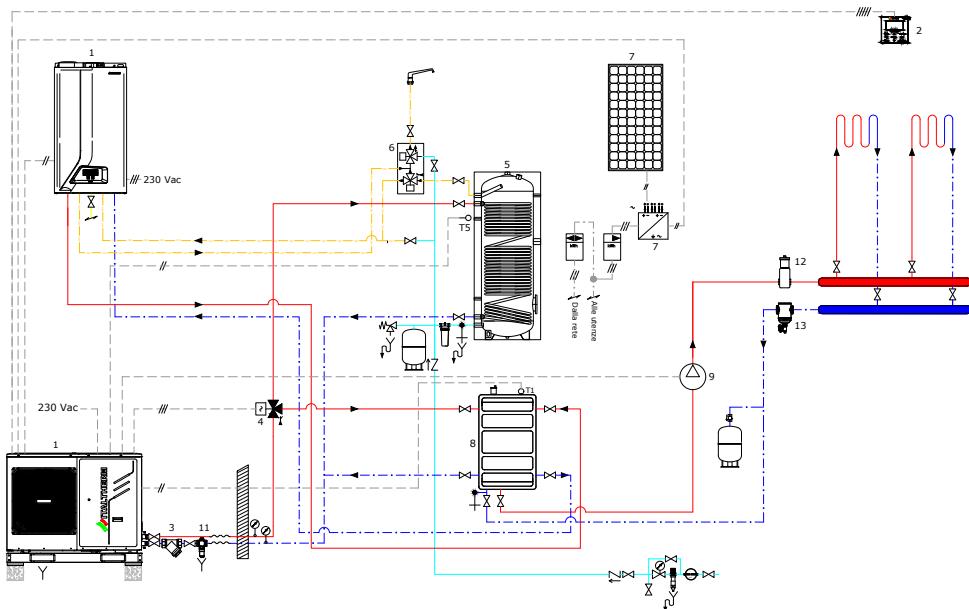
1-HYDRABLOCK HYBRID TOP K



**Legenda**

- 1 Hydrablock Hybrid TOP
- 2 HP Remote control (standard supplied)
- 3 HP Y filter (standard supplied)
- 4 Antifreeze valve kit 1" 1/4
- 5 Room thermostat
- 6 Zone valve with limit switch
- 7 50 l inertial storage tank kit
- 8 differential By-pass valve
- 9 External pump (not supplied)
- 10 Microbubble separator kit 1" 1/4
- 11 Magnetic sludge remover kit. 1"1/4
- T1 water temperature probe HP (standard supplied)

2-HYDRABLOCK HYBRID CLASS K



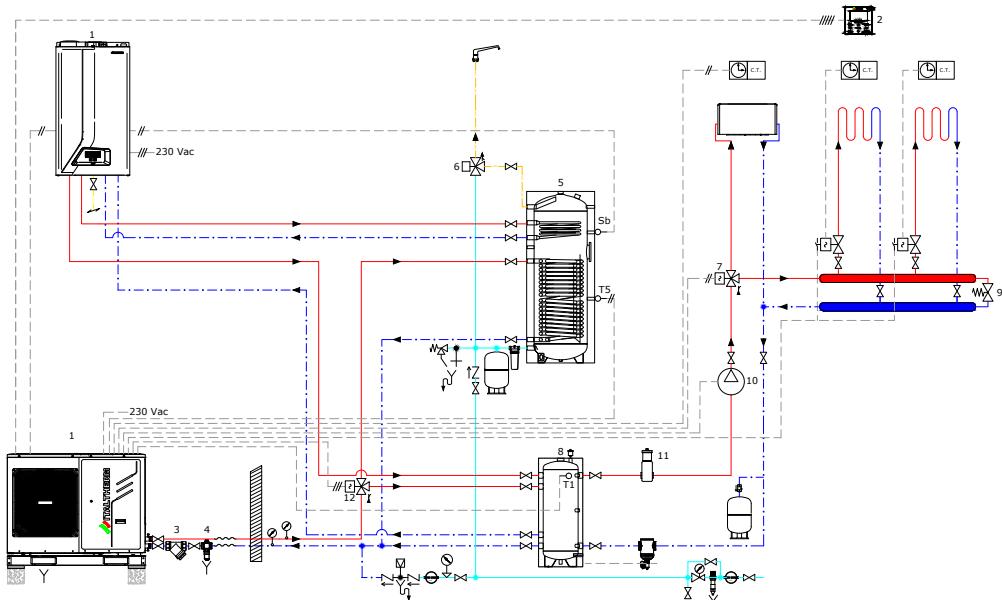
**Legenda**

- 1 Hydrablock Hybrid Class K
- 2 HP Remote control (standard supplied)
- 3 HP Y filter (standard supplied)
- 4 HP Diverter valve Kit (SV1)
- 5 Mono HP Tank 200/300
- 6 Solar kit with fittings
- 7 Inverter photovoltaic system
- 8 50 l compact inertial storage Kit
- 9 External pump (not supplied)
- 10 Antifreeze valve Kit 1"
- 11 Antifreeze valve kit
- 12 Deareator
- 13 Magnetic sludge remover
- T1 HP flow water temperature probe (standard supplied)
- T5 HP DHW tank probe

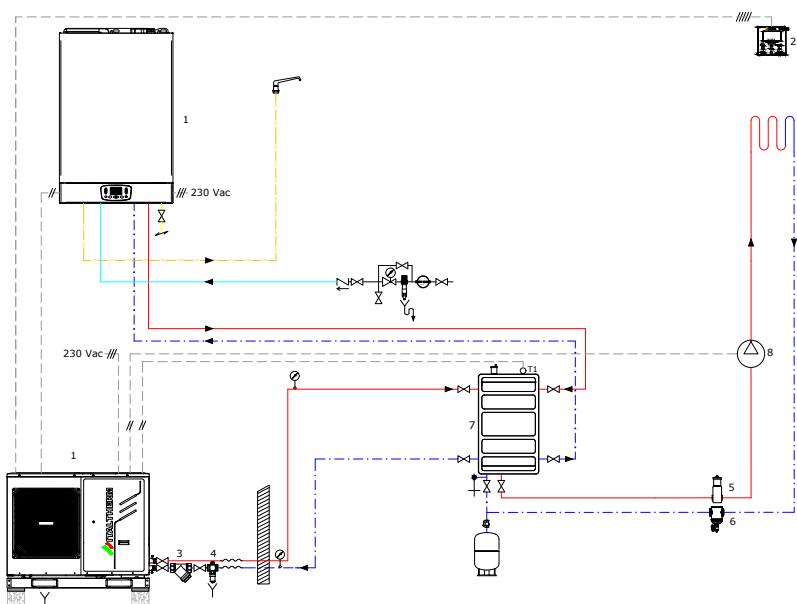
indicative system diagram, does not replace the technical design of a designer

# Plant diagrams

3-HYDRABLOCK HYBRID CLASS KR

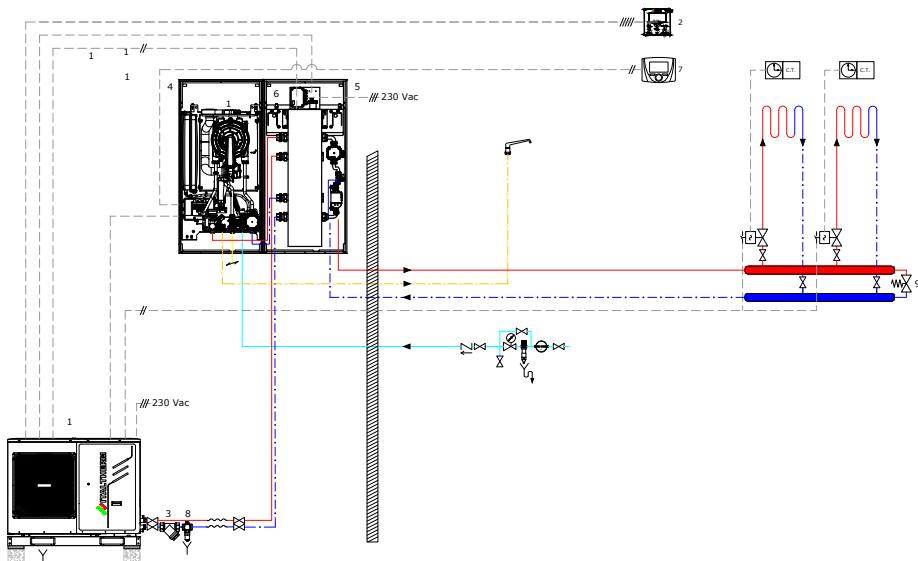


4-HYDRABLOCK HYBRID MAX K



# Plant diagrams

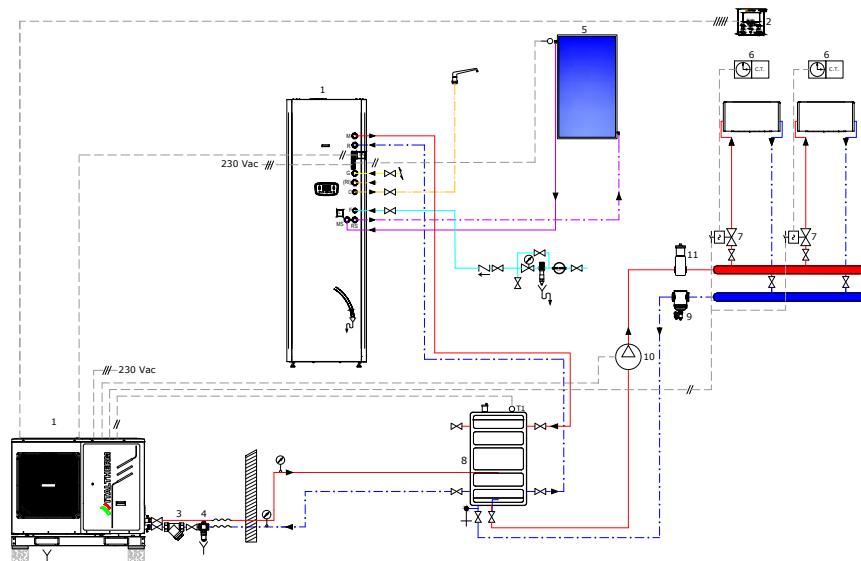
5-HYDRABLOCK HYBRID BOX K



**Legenda**

- 1 Hydrablock Hybrid BOX 25 K 5/7 M
- 2 HP Remote control (standard supplied)
- 3 HP Y filter (standard supplied)
- 4 Encasing box
- 5 Encasing box for storage tank
- 6 20 l encasing inertial storage tank with pump and magnetic sludge remover
- 7 Boiler Remote control (standard supplied)
- 8 Antifreeze valve Kit 1"
- 9 Differential by-pass valve Kit
- T1 HP flow water temperature probe (standard supplied)

6-HYDRABLOCK HYBRID SOLAR K



**Legenda**

- 1 Hydrablock Hybrid Solar K
- 2 HP Remote control (standard supplied)
- 3 HP Y filter (standard supplied)
- 4 Antifreeze valve Kit 1"
- 5 Slim Solar 2.5
- 6 Room thermostat
- 7 Zones 2 way valves
- 8 50 L inertial storage tank
- 9 Magnetic sludge remover
- 10 External pump (Po-not supplied)
- 11 Deareator
- T1 Hp water temperature probe (standard supplied)

indicative system diagram, does not replace the technical design of a designer



# Traditional boilers



										Page
<b>Traditional boilers</b>										
<b>City Class 24 C NOx • 28 C NOx</b>		✓		✓	✓				✓	38
<b>City Class 24 C • 28 C</b>		✓	✓		✓	✓				39
<b>City Class 20F•25F•30F•35F•40F</b>		✓		✓	✓	✓				40
<b>City Class 20FR•25FR•30FR•35FR•40FR</b>		✓		✓	✓				✓	41
<b>Time 25 F • 30 F • 35 F</b>		✓			✓	✓	✓	✓		42
<b>Time 35 FR</b>		✓		✓	✓				✓	43
<b>Time Max 24 F • 30 F</b>		✓			✓	✓	✓	✓		44
<b>Flue systems</b>										
Concentric Ø 60/100 mm systems										45
Split Ø 80 / 60 mm systems										46
<b>Accessories</b>										
Gas conversion kits										48
Connection and fitting kits										49
Accessories for thermoregulation										51

#### Legend:

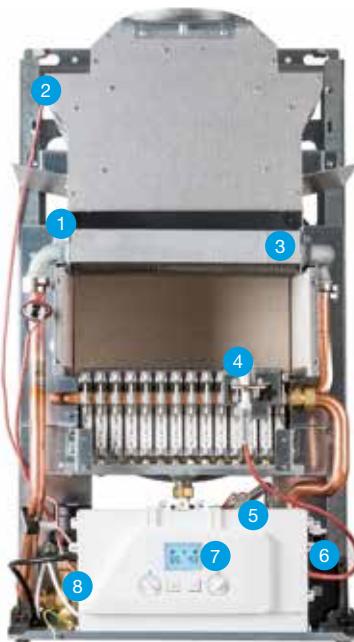


 Extra EU markets ONLY

**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)

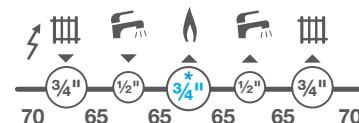
# City Class C NOx

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)	$\eta_{30}$ at Qn (%) **	Flow rate $\Delta T 25^\circ\text{C}$ (l/min)	Energy efficiency class
<b>City Class 24 C NOx</b>		28	26,5 / 10	26,5	90,6	13,7	C XL - B
<b>City Class 28 C NOx</b>	400 x 700 x 324	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 113

Description	Code	Page	Note
Magnetic dirt separator kit	401010041	50	
Outdoor temperature sensor kit	401060001	51	
Hydraulic fitting kit for City Class	401010037	20	
Solar kit with fittings for City Class/Open	401090008	49	As alternative to the hydraulic fitting kit
Metal template	401020019	20	
Grid kit covering fittings	401010043	50	
Grid kit covering fittings for dirt separator	401010044	50	
Kit Italtherm Net APP	401080018		must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator
Remote control with climatic regulator	401080010	51	





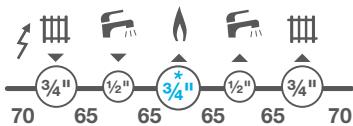
# City Class C

24 C 28 C



## 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



\* $\frac{1}{2}$ " when original template and hydraulic fitting kit are used

Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	Qnw (kW)	$\eta_{30}$ 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 113

Description	Code	Page	Note
Magnetic dirt separator kit	401010041	50	
Outdoor temperature sensor kit	401060001	51	
Hydraulic fitting kit for City Class	401010037	20	
Solar kit with fittings for City Class/Open	401090008	49	As alternative to the hydraulic fitting kit
Metal template	401020019	20	
Grid kit covering fittings	401010043	50	
Grid kit covering fittings for dirt separator	401010044	50	
Kit Italtherm Net APP	401080018		must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator
Remote control with climatic regulator	401080010	51	





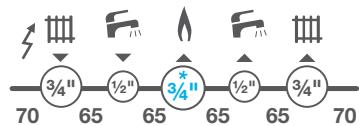
# City Class F

20 F 25 F 30 F 35 F 40 F



## 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



\* $\frac{1}{2}$ " when original template and hydraulic fitting kit are used

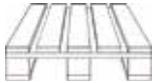
Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	Qnw (kW)	$\eta_{30}$ at Qn (%) **	Flow rate $\Delta T 25^\circ C$ (l/min)
City Class 20 F		30,4	19,5 / 9,5	19,5	90,5	11,2
City Class 25 F		30,6	24 / 10	24	91	13,7
City Class 30 F	400 x 700 x 324	31,6	28,2 / 12	28,2	91,5	16
City Class 35 F		35,8	28,2 / 13,6	28,2	92	18,6
City Class 40 F		36,5	36,6/14	36,6	87	20,3

## ACCESSORIES

for the list and all compatibility models, see "Accessories" on page 113

Description	Code	Page	Note
Magnetic dirt separator kit	401010041	50	
Outdoor temperature sensor kit	401060001	51	
Hydraulic fitting kit for City Class	401010037	20	
Solar kit with fittings for City Class/Open	401090008	49	As alternative to the hydraulic fitting kit
Metal template	401020019	20	
Grid kit covering fittings	401010043	50	
Grid kit covering fittings for dirt separator	401010044	50	
Kit Italtherm Net APP	401080018		must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator
Remote control with climatic regulator	401080010	51	

9 PZ.





# City Class FR

20 FR

25 FR

30 FR

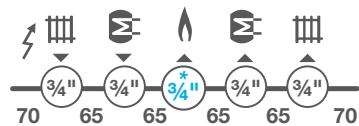
35 FR

40 FR



**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



\*<sup>1/2"</sup> when original template and hydraulic fitting kit are used

Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	Qnw (kW)	$\eta_{30}$ at Qn (%) **
City Class 20 FR		27,5	19,5 / 9,5	19,5	90,5
City Class 25 FR		29,7	24 / 10	24	91
City Class 30 FR	400 x 700 x 324	30,0	28,2 / 12	28,2	91,5
City Class 35 FR		34,5	28,2 / 13,6	28,2	92
City Class 40 FR		35,3	36,6/14	36,6	87

**ACCESSORIES** for the list and all compatibility models, see "[Accessories](#)" on page 113

Description	Code	Page	Note
Magnetic dirt separator kit	401010041	50	
Outdoor temperature sensor kit	401060001	51	
Hydraulic fitting kit for City Class	401010039	20	
Metal template	401020021	20	
Grid kit covering fittings	401010043	50	
Grid kit covering fittings for dirt separator	401010044	50	
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	51	

**9 PZ.**





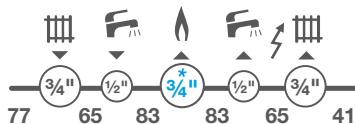
# Time F

25 F 30 F 35 F



## Heating and instant DHW production with ACQUA STEP technology

- 1 ACQUA STEP programmable function, allowing DHW pre-heating at three temperature levels
- 2 Brass hydraulic group
- 3 Insulated stainless steel DHW maxi-exchanger
- 4 Automatic filling valve
- 5 Low energy multi speed pump
- 6 Easy access to the DHW inlet filter
- 7 DHW flow turbine for an optimal modulation
- 8 By-pass can be excluded
- 9 Holidays programme mode



\* $\frac{1}{2}$ " when original template and hydraulic fitting kit are used

Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	Qnw (kW)	$\eta_{30}$ at Qn (%) **	Flow rate $\Delta T 25^\circ C$ (l/min)
Time 25 F		38,5	25,7/10,3	25,7	92,8	13,7
Time 30 F	450 x 837 x 382	40	30,5/13	30,5	93,1	16,3
Time 35 F		42	34,5/13,5	34,5	94,3	18,7

## ACCESSORIES

for the list and all compatibility models, see "[Accessories](#)" on page 21

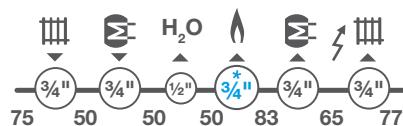
Description	Code	Page	Note
Magnetic dirt separator kit	401010041	50	
Hydraulic fitting kit	401010015	49	
Universal hydraulic fitting kit	401010023	49	
Metal template	401020009	48	
Flue accessories	-	21	
Remote Control with climatic regulator	401080001	51	In multi zones system, it requires the CH multi zones interface PCB
Outdoor temperature sensor kit	401060001	51	
CH multi zones interface PCB	401110001	51	Required only if the Remote Control cod. 401080001 is installed





### Heating and DHW production with external storage tank

- 1 Hourly scheduling for DHW tank set-up
- 2 Brass hydraulic group
- 3 Built-in electric three way valve
- 4 Automatic filling valve
- 5 Low energy multi speed pump
- 6 Connection for the storage unit coil flow/return  
By-pass can be excluded
- 6 Holidays programme mode



\*½" when original template and hydraulic fitting kit are used

Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	Qnw (kW)	$\eta_{30}$ at Qn (%) **
Time 35 FR	450 x 837 x 382	38	34,5/13,5	34,5	94,3

### ACCESSORIES

for the list and all compatibility models, see "[Accessories](#)" on page 21

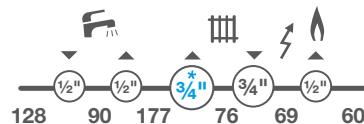
Description	Code	Page	Note
Magnetic dirt separator kit	401010041	50	
Hydraulic fitting kit	401010016	49	
Universal hydraulic fitting kit	401010023	49	
Metal template	401020010	48	
Flue accessories	-	21	
Remote Control with climatic regulator	401080001	51	In multi zones system, it requires the CH multi zones interface PCB
Outdoor temperature sensor kit	401060001	51	
CH multi zones interface PCB	401110001	51	Required only if the Remote Control cod. 401080001 is installed
Temperature sensor kit for external storage	401139002		





### 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 Multifunction control system: more than 40 configurable parameters to optimize adaptation to any plant
  - 5 Expansion vessel 10L
- 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)	$\eta_{30}$ at Qn (%) **	Flow rate $\Delta T 25^\circ C$ (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 113

Description	Code	Page	Note
Magnetic dirt separator kit	401010041	50	
Hydraulic fitting kit	401010003	49	
Universal hydraulic fitting kit	401010023	49	
Metal template	401020003	20	
Flue accessories	-	113	
Remote Control with climatic regulator	401080001	51	In multi zones system, it requires the CH multi zones interface PCB
Outdoor temperature sensor kit	401060001	51	
CH multi zones interface PCB	401110001	51	Required only if the Remote Control cod. 401080001 is installed

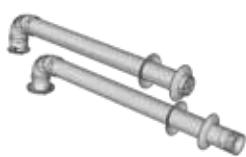


# Concentric Ø 60/100 mm systems

Description	City Class F	City Class FR	Time F - FR	Time Max F
40100001 <b>Concentric flue kit inlet + outlet</b> Ø 60 mm / 100 mm		✓	✓	✓
401005001 <b>Concentric flue kit inlet + outlet</b> Ø 60 mm / 100 mm no brand version		✓	✓	✓
401005002 <b>Concentric flue kit inlet + outlet</b> Ø 60 mm / 100 mm anti-freeze version		✓	✓	✓
40100002 <b>Concentric flue kit</b> inlet + outlet, raised Ø 60 mm / 100 mm		✓	✓	✓
40100004 <b>Concentric vertical connection kit,</b> flanged Ø 60 mm / 100 mm		✓	✓	✓
40100003 <b>Concentric flue extension m/f</b> Ø 60 mm / 100 mm L = 1000 mm		✓	✓	✓
40100007 <b>Concentric f/f</b> connection kit Ø 60 mm / 100 mm		✓	✓	✓
40100005 <b>Concentric 90° bend m/f kit</b> Ø 60 mm / 100 mm		✓	✓	✓
40100006 <b>Concentric 45° bend m/f kit</b> Ø 60 mm / 100 mm		✓	✓	✓
40100009 <b>Sloped roof tile kit</b>		✓	✓	✓
40100008 <b>Concentric vertical flue kit</b> 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 F	City Class FR	Time F - FR	Time Max F
401005009 Split system Kit inlet + outlet with splitter Ø 80 mm / 80 mm <b>only for City Class version</b>		✓	✓	
401001003 Split system Kit inlet + outlet Ø 80 mm / 80 mm <b>only for Time version</b>			✓	✓
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

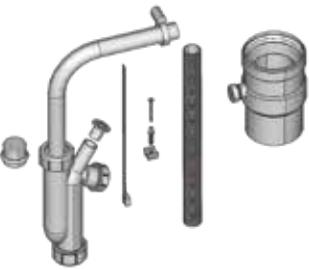
City Class F

City Class FR

Time F - FR

Time Max F

## Description

401001012 <b>Splitter</b> Ø 80 mm / 80 mm		✓	✓	✓	✓
401001011 <b>Condense trap kit</b> with vertical stud m/f Ø 80 mm		✓	✓	✓	✓
401005008 <b>Grid kit Ø 80 mm</b>		✓	✓	✓	✓

# Metal template and Gas conversion kits



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

401020019 <b>Metal template</b>	✓	✓	✓				
401020021 <b>Metal template</b>				✓			
401020009 <b>Metal template</b>					✓		
401020010 <b>Metal template</b>						✓	
401020003 <b>Metal template</b>							✓

## Gas conversion kit

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

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

# Connection and fitting kits

	City Class C NOx	City Class C	City Class F	City Class FR	Time F	Time FR	Time Max F
<b>Connection and fitting kits</b>							
401010023 <b>Universal hydraulic fitting kit</b> (stainless steel flexible pipes)	✓	✓	✓	✓	✓		✓
							
401010024 <b>Nr. 2 valves kit 3/4" m/f</b> To close system flow and return. Compatible with specific and universal fitting kits	✓	✓	✓	✓	✓		✓
							
401010037 <b>Hydraulic fitting kit</b> City Class C NOx - City Class C-F	✓	✓	✓				
401010039 <b>Hydraulic fitting kit</b> City Class FR				✓			
401010015 <b>Hydraulic fitting kit</b> Time F					✓		
401010016 <b>Hydraulic fitting kit</b> Time FR						✓	
401010003 <b>Hydraulic fitting kit</b> Time max F							✓
401090008 <b>Solar kit with fittings</b> City Class C NOx	✓						
401090005 <b>Solar kit with fittings</b> Time F					✓		

# Kits

## Grid kit covering fittings

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

## Dirt Separator

401010041 <b>Magnetic dirt separator kit</b>  	✓	✓	✓	✓	✓	✓
--	---	---	---	---	---	---

# Accessories for thermoregulation

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

# Condensing boilers < 35 kW





Page

### Gas boilers < 35 kW

<b>City Top 25 K • 35 K</b>	<b>1:20</b>	✓	✓		✓		<b>55</b>
<b>City Class 25 K • 30 K • 35 K</b>	<b>1:10</b>	✓	✓		✓		<b>32</b>
<b>City Class 25 KR • 30 KR* • 35 KR</b>	<b>1:10</b>	✓			✓	✓	<b>33</b>
<b>City Open 25 K • 35 K</b>	<b>1:10</b>	✓	✓			✓	<b>58</b>
<b>City Box 25 K • 35 K</b>	<b>1:10</b>	✓	✓			✓	<b>59</b>
<b>Time 27 K • 35 K</b>	<b>1:10</b>	✓	✓		✓		<b>60</b>
<b>Time Micro 27 K • 35 K</b>	<b>1:10</b>	✓	✓	✓	✓		<b>61</b>
<b>Time Max 27 K • 35 K</b>	<b>1:10</b>	✓	✓	✓		✓	<b>62</b>
<b>Time Compact 35 K</b>	<b>1:10</b>	✓	✓	✓		✓	<b>63</b>
<b>Time Solar 18 K • 35 K</b>	<b>1:10</b>	✓	✓	✓		✓	<b>64</b>
<b>Zone System kits</b>							<b>41</b>



\*for EXTRA-EU MARKETS only

### Flue systems

**67**

Concentric Ø 60/100 mm systems	<b>68</b>
Split Ø 80 / 60 / 50 mm systems	<b>69</b>
Hose Ø 80 / 60 / 50 mm	<b>70</b>

### Accessories

**75**

Metal template	<b>49</b>
Gas Conversion kits	<b>49</b>
Connection and fitting kits	<b>77</b>
Accessories for solar systems	<b>78</b>
Grid kit covering fittings - Dirt separator - DHW recirculation kit	<b>79</b>
Accessories for thermoregulation	<b>80</b>

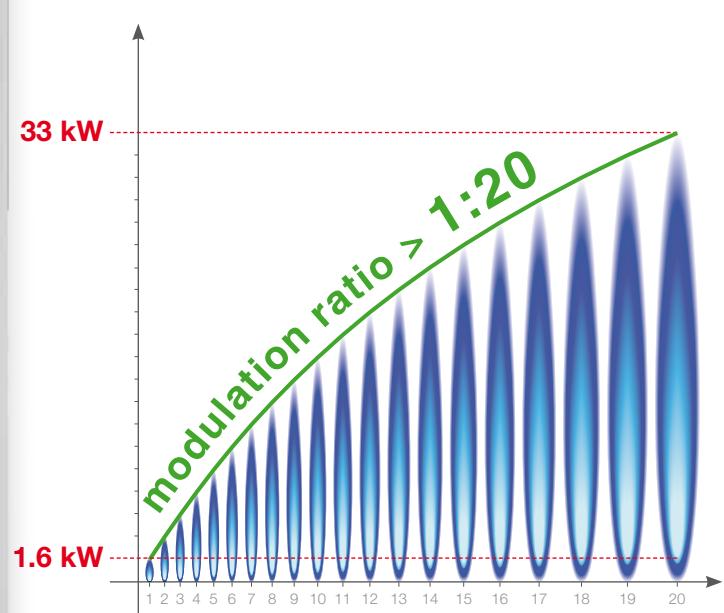
### Legend:

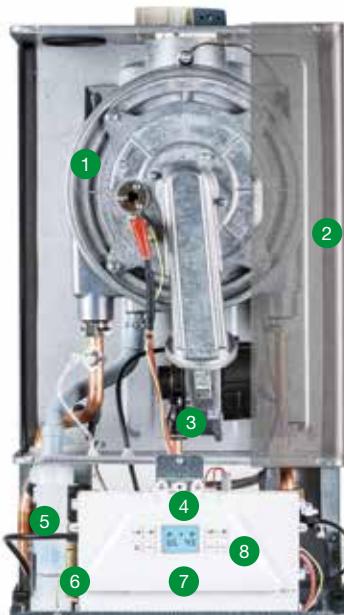
	Condensing boiler		Modulation ratio		Heating		Domestic Hot Water		Built in storage tank		Storage tank		Indoor		Outdoor
	Boiler encasing	<p><b>Qn</b> = nominal heat input in heating • <b>Qnw</b> = nominal heat input in DHW • <b>η30</b> = useful efficiency at 30% of the heat input * The appliance is factory-set 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

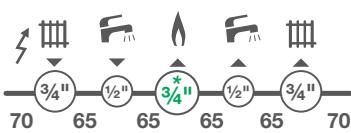
## THE NEW MARKET BENCHMARK





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)	$\eta_{30}$ at Qn (%) **	Flow rate $\Delta T 25^\circ C$ (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 75 for further optional accessories

Description	Code	Page	Notes
Magnetic dirt separator kit	401010041	79	
Outdoor temperature sensor kit	401060001	81	
Hydraulic fitting kit	401010037	77	
Metal template	401020019	49	
Solar kit with fittings for City Class/Open	401090008	78	as alternative to the hydraulic fitting kit
Grid kit covering fittings	401010043	79	
Grid kit covering fittings for dirt separator	401010044	79	
Remote control with climatic regulator	401080010	81	
Italtherm Net APP kit	401080018	42	must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator

9 PZ.



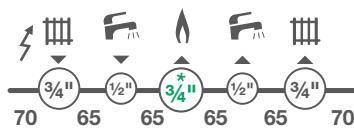
# City Class K

25 K 30 K 35 K



**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 $\Delta T 25^\circ C$ (l/min)	Energy efficiency class
<b>City Class 25 K</b>		28,4	20 / 2,5	25	106,4	14,8	A XL - A
<b>City Class 30 K</b>	400 x 700 x 324	30,2	24 / 3	30	106	17,0	A XL - A
<b>City Class 35 K</b>		34,2	28 / 3,5	33,2	106,7	18,7	A XXL - B

## ACCESSORIES

see "Accessories" from page 75 for further optional accessories

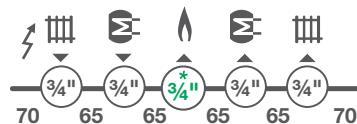
Description	Code	Page	Notes
Magnetic dirt separator kit	401010041	79	
Outdoor temperature sensor kit	401060001	81	
Hydraulic fitting kit	401010037	77	
Metal template	401020019	49	
Solar kit with fittings for City Class/Open	401090008	78	as an alternative to the hydraulic fitting kit
Grid kit covering fittings	401010043	79	
Grid kit covering fittings for dirt separator	401010044	79	
Remote control with climatic regulator	401080010	81	
Italtherm Net APP kit	401080018	42	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



\*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 (%) **	Energy efficiency class
City Class 25 KR		26,5	20 / 2,5	25	106,4	A
City Class 30 KR*	400 x 700 x 324	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 75 for further optional accessories

Description	Code	Page	Notes
Magnetic dirt separator kit	401010041	79	
Outdoor temperature sensor kit	401060001	81	
Hydraulic fitting kit City Class KR	401010039	77	
Metal template	401020021	49	
Grid kit covering fittings	401010043	78	
Grid kit covering fittings for dirt separator	401010044	79	
Remote control with climatic regulator	401080010	81	
Italtherm Net APP kit	401080018	42	must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator
Temperature sensor kit for external storage	401139002	82	

\*for EXTRA-EU MARKETS only





**Intelligent remote control included**

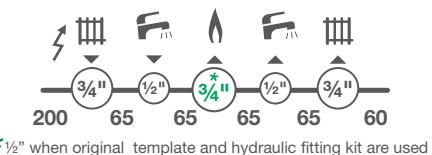


## CH and instant DHW with premix burner, outdoor appliance

- 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)	η30 at Qn (%) **	Flow rate ΔT 25°C (l/min)	Energy efficiency class
<b>City Open 25 K</b>		34	20 / 2,5	106,4	14,8	A XL - A
<b>City Open 35 K</b>	520 x 850 x 240	39,8	28 / 3,5	106,7	18,7	A XXL - B

## ACCESSORIES

see "Accessories" from page 75 for further optional accessories

Description	Code	Page	Notes
Magnetic dirt separator kit	401010041	79	
Outdoor temperature sensor kit	401060001	81	
Hydraulic fitting kit	401010037	77	
Metal template	401020023	49	
Solar kit with fittings for City Class/Open	401090008	78	as an alternative to the hydraulic fitting kit
Anti-freeze kit for solar kit with fittings	401070001	78	
CH multi zones interface PCB	401110004	82	
Italtherm Net APP kit	401080018	42	must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator

**6 PZ.**



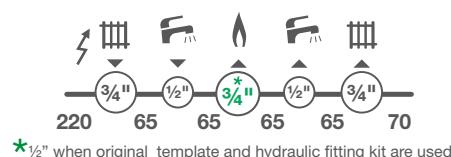


Intelligent remote control included



## 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)	$\eta_{30}$ at Qn (%) **	Flow rate $\Delta T 25^\circ C$ (l/min)	Energy efficiency class
<b>City Box 25 K</b>		27,6	20 / 2,5	106,4	14,8	A XL - A
<b>City Box 35 K</b>		33,4	28 / 3,5	106,7	18,7	A XXL - B
code						
<b>Encasing box</b>	550 x 1140 x 250	401050006				

## ACCESSORIES

see "Accessories" from page 75 for further optional accessories

Description	Code	Page	Notes
Magnetic dirt separator kit for City Box 25 K - 35 K	401010047	79	
Outdoor temperature sensor kit	401060001	81	
Hydraulic fitting kit for City Box K	401010005	77	
Solar kit with fittings for City Box 25 K - 35 K	401090010	78	as an alternative to the hydraulic fitting kit
Anti-freeze kit for solar kit with fittings	401070001	78	
CH multi zones interface PCB	401110004	82	
Italtherm Net APP kit	401080018	42	must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator

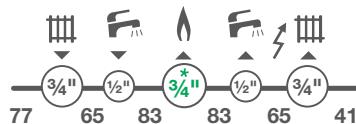
6 PZ.





## Central heating and instant DHW production, with MAXI dual exchanger

- 1 Condensing stainless steel heat exchanger
  - 2 Modulation ratio 1:10
  - 3 Insulated and stainless steel DHW maxi-exchanger
  - 4 Brass hydraulic group
  - 5 Multifunction control system: more than 40 configurable parameters to optimize adaptation to any plant
  - 6 Automatic filling valve
  - 7 ACQUA STEP programmable function, allowing DHW pre-heating at three temperature levels
- 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)	$\eta$ at Qn (%) ***	$\eta$ at 30 Qn (%) **	Flow rate $\Delta T 25^\circ C$ (l/min)	Energy efficiency class	
Time 27 K		41.6	26 / 2,6	104.7	107.6	14.4	A	XL-A
Time 35 K	450 x 837 x 382	43.5	33 / 3,4	107.6	107.6	18.4	A	XXL-A

## ACCESSORIES

see "Accessories" from page 75 for further optional accessories

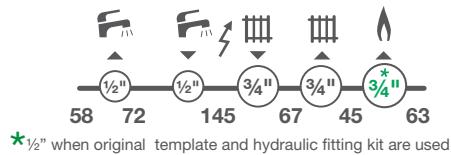
Description	Code	Page	Notes
Magnetic dirt separator kit	401010041	79	
Outdoor temperature sensor kit	401060001	81	
Hydraulic fitting kit for Time K	401010015	77	
Solar kit with fittings for Time K	401090005	78	as an alternative to the hydraulic fitting kit
Metal template	401020009	76	
Remote control with climatic regulator	401080010	81	In multi zones systems, it requires the CH multi zones interface PCB
Italtherm Net APP kit	401080018	59	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



Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	Qnw (kW)	$\eta_{30}$ at Qn (%) **	Flow rate $\Delta T 25^\circ C$ (l/min)	Energy efficiency class
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 75 for further optional accessories

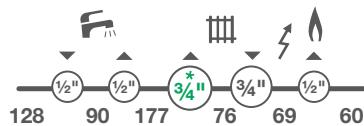
Description	Code	Page	Notes
Magnetic dirt separator kit	401010041	79	
Outdoor temperature sensor kit	401060001	81	
Hydraulic fitting kit for K	401010049	77	
Metal template	401020025	76	
Remote control with climatic regulator	401080010	81	
Italtherm Net APP kit	401080018	58	must be combined with Italtherm 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)	$\eta_{30}$ at Qn (%) ***	Specific flow EN625 (l/min)	Energy efficiency class
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 75 for further optional accessories

Description	Code	Page	Notes
Magnetic dirt separator kit	401010041	79	
Outdoor temperature sensor kit	401060001	81	
Hydraulic fitting kit for Time Max	401010003	77	
Metal template	401020003	49	
Remote control with climatic regulator	401080010	81	In multi zones systems, it requires the CH multi zones interface PCB
Italtherm Net APP kit	401080018	42	must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator

4PZ.



# 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 hydraulics 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

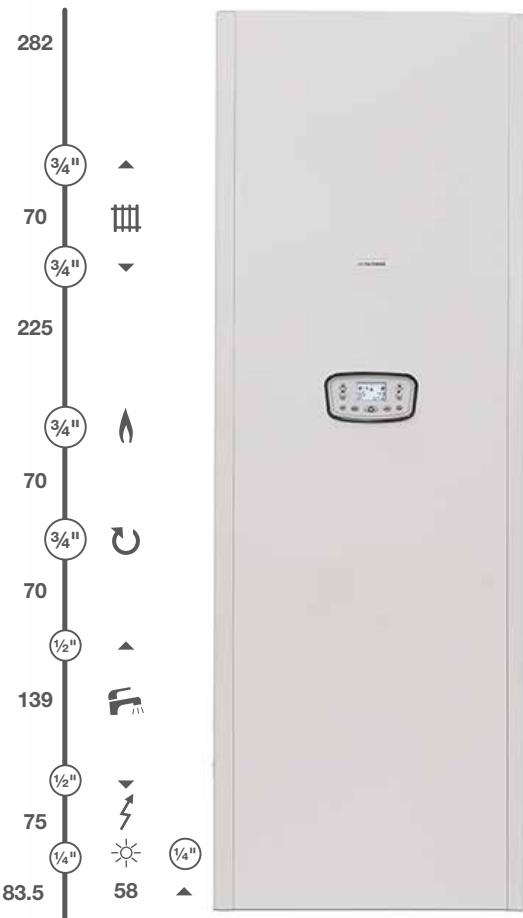
Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	$\eta_{30 \text{ at } Qn}$ (%) ***	Specific flow EN625 (l/min)	Energy efficiency class
Time Compact 35 K	600 x 1765 x 600	145	33 / 3,4	107.6	22.7	A XXL-B

## ACCESSORIES

see "Accessories" from page 75 for further optional accessories

Description	Code	Page	Notes
Outdoor temperature sensor kit	401060001	81	
Hydraulic fitting kit for Time Compact	401010025	77	
DHW recirculation kit for Time Compact	401010026	-	Circulating pump included
Metal template	401020015	49	
Remote control with climatic regulator	401080010	81	In multi zones systems, it requires the CH multi zones interface PCB
Italtherm Net APP kit	401080018	42	must be combined with Italtherm Remote control (cod. 401080010) with climatic regulator





**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)	$\eta_{30}$ 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 75 for further optional accessories

Description	Code	Page	Notes
Outdoor temperature sensor kit	401060001	81	
Hydraulic fitting kit for Time Solar	401010029	77	
DHW recirculation kit Time Solar	401010030	-	Circulating pump included
Metal template	401020017	49	
Remote control with climatic regulator	401080001	81	In multi zones systems, it requires the CH multi zones interface PCB



# High Temperature zone kit



## 1 HT ZONE 2 HT ZONES 3 HT ZONES

- High Efficiency modulating pumps
- Flexible Installation thanks to 10 different pump 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	
2 HT zones	450 x 700 x 190
3 HT zones	

\* HT = High Temperature LT = Low Temperature

# Mixed temperature zone 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 pump 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)
<b>1 HT zone + 1 LT zone kit</b>	450 x 700 x 190
<b>1 HT zone + 2 LT zones kit</b>	

\* 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

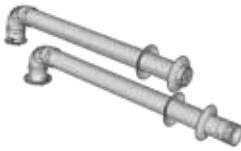


# Split Ø 80 mm systems

## 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 <b>Hose</b> L = 20 m Ø 80 mm	 <b>20 m*</b>
401003011 <b>Flexible / rigid adapter</b> Ø 80 mm	 1 pcs.
401003017 <b>Bend Ø 80 mm</b> with shelf	 1 pcs.
401003018 <b>Centering</b> Ø 80 mm (5 pcs. pack)	 <b>5 pcs.*</b>

\*Min purchasing q.ty and relevant multiples.

# Split Ø 60 mm systems

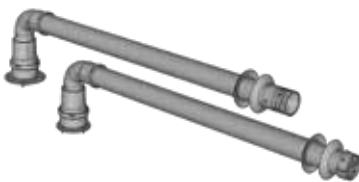
## Description

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**



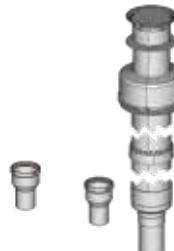
401003008

**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.

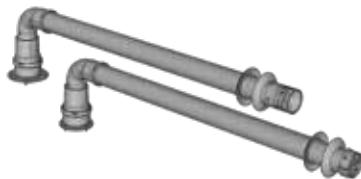
# Split Ø 50 mm systems

---

## 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 <b>Hose L = 20 mt</b> Ø 50 mm	 <b>20 m*</b>
401008009 <b>flexible / rigid adapter</b> Ø 50 mm	 1 pcs.
401008010 <b>Bend Ø 50 mm</b> with shelf	 1 pcs.
401008011 <b>Centratore</b> Ø 50 mm (5 pcs. pack)	 <b>5 pcs.*</b>

\*Min purchasing q.ty and relevant multiples.

# Accessories



# Metal template and Gas conversion kits



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

401020019 <b>Metal template</b>	✓	✓			—					
401020021 <b>Metal template</b>		✓			—					
401020023 <b>Metal template</b>			✓		—					
401020009 <b>Metal template</b>				—	✓					
401020025 <b>Metal template</b>				—		✓				
401020003 <b>Metal template</b>				—			✓			
401020015 <b>Metal template</b>				—				✓		
401020017 <b>Metal template</b>				—					✓	

## Gas conversion kit

401042290 G30/31 401042350 G20	<b>GAS ADAPTIVE</b>	✓ 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

# Connection and fitting kits

	City Top K	City Class K	City Class KR	City Open K	City Box K	Time K	Time Micro K	Time Max K	Time Compact	Time Solar
401010023 <b>Universal hydraulic fitting kit</b> (stainless steel flexible pipes)	✓	✓		✓	✓	✓	✓	✓	✓	✓
										
401010024 <b>Nr. 2 valves kit 3/4" m/f</b> To close system flow and return. Compatible with specific and universal fitting kits	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
										
401010037 <b>Hydraulic fitting kit</b> City Top - City Class K - City Open K - City Class C NOx	✓	✓		✓						
401010039 <b>Hydraulic fitting kit</b> City Class KR			✓							
401010005 <b>Hydraulic fitting kit</b> City Box K					✓					
401010015 <b>Hydraulic fitting kit</b> Time K						✓				
401010049 <b>Hydraulic fitting kit</b> Time Micro K							✓			
401010003 <b>Hydraulic fitting kit</b> Time Max K								✓		
401010025 <b>Hydraulic fitting kit</b> Time Compact									✓	
401010029 <b>Hydraulic fitting kit</b> Time Solar K										✓

# Accessories for solar systems



**Instantaneous boiler connection to the solar system**

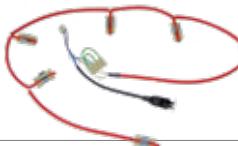
City Top K	City Class K	City Class KR	City Open K	City Box K	Time K	Time Micro K	Time Max K	Time Compact	Time Solar
------------	--------------	---------------	-------------	------------	--------	--------------	------------	--------------	------------

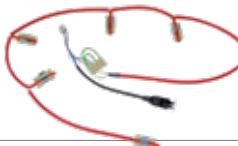
401090008  
**Solar kit with fittings**  
 City Top - City Class K - City Open K

✓	✓		✓						
---	---	--	---	--	--	--	--	--	--

401090010  
**Solar kit with fittings**  
 City Box 25 K - 35 K

401090005 <b>Solar kit with fittings</b> Time K					✓				
---	--	--	--	--	---	--	--	--	--

401070001  
**Anti-freeze kit for solar kit with fittings**  


401070001 <b>Anti-freeze kit for solar kit with fittings</b> 	✓	✓	✓	✓					
--	---	---	---	---	--	--	--	--	--

<b>Accessories</b>									
--------------------	--	--	--	--	--	--	--	--	--

401141014  
**Expansion vessel 18 l**  
 usable for solar collectors



401141015  
**Expansion vessel 25 l**  
 usable for solar collectors



401141016  
**Expansion vessel 18 l**  
 for DHW



# Kits

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

## Grid kit covering fittings

401010043 <b>Grid kit covering fittings</b> WxHxD: 367 x 51x194 mm 	✓	✓	✓						
401010044 <b>Grid kit covering fittings for dirt separator</b> WxHxD: 367 x 167x268.5mm 	✓	✓	✓						

## Dirt Separator

401010041 <b>Magnetic dirt separator kit</b> 	✓	✓	✓	✓	✓	✓	✓		
401010047 <b>Magnetic dirt for City Box</b> 				✓	✓				

## DHW recirculation kit

401010026 <b>DHW recirculation kit</b> 								✓	
401010030 <b>DHW recirculation kit</b>									✓

# Thermoregulation



# Accessories for thermoregulation

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

# Accessories for thermoregulation

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

## 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.*

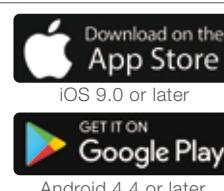
### MAXIMUM FLEXIBILITY

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



# High Power boilers



## WALL-HUNG BOILERS



### Single configuration

Time Power 50K-70K-90K-100K*-115K	1:10	✓	✓	✓	✓	87
-----------------------------------	------	---	---	---	---	----

Time Power 160K	1:6	✓	✓	✓	✓	87
-----------------	-----	---	---	---	---	----

Hydraulic separator kits

Accessories - Gas conversion kits - Flue system

### Cascade configuration

2 boilers cascade	1:24	✓	✓	✓	✓	98
-------------------	------	---	---	---	---	----

2 boilers cascade BACK TO BACK	1:24	✓	✓	✓	✓	✓	100
--------------------------------	------	---	---	---	---	---	-----

3 boilers cascade	1:40	✓	✓	✓	✓	✓	102
-------------------	------	---	---	---	---	---	-----

3 boilers cascade BACK TO BACK	1:40	✓	✓	✓	✓	✓	104
--------------------------------	------	---	---	---	---	---	-----

4 boilers cascade	1:47	✓	✓	✓	✓	✓	106
-------------------	------	---	---	---	---	---	-----

4 boilers cascade BACK TO BACK	1:48	✓	✓	✓	✓	✓	108
--------------------------------	------	---	---	---	---	---	-----

5 boilers cascade BACK TO BACK	1:64	✓	✓	✓	✓	✓	110
--------------------------------	------	---	---	---	---	---	-----

6 boilers cascade BACK TO BACK	1:78	✓	✓	✓	✓	✓	112
--------------------------------	------	---	---	---	---	---	-----

Hydraulic separator kits

Accessories - Flue system

## OUTDOOR BOILERS

### Single configuration

Modular box 50K-70K-90K-115K	1:10	✓	✓	✓	✓	✓	✓	120
------------------------------	------	---	---	---	---	---	---	-----

Modular box 160K	1:6	✓	✓	✓	✓	✓	✓	122
------------------	-----	---	---	---	---	---	---	-----

### Cascade configuration

2 Modular boxes	1:40	✓	✓	✓	✓	✓	✓	128
-----------------	------	---	---	---	---	---	---	-----

3 Modular boxes	1:40	✓	✓	✓	✓	✓	✓	130
-----------------	------	---	---	---	---	---	---	-----

4 Modular boxes	1:47	✓	✓	✓	✓	✓	✓	132
-----------------	------	---	---	---	---	---	---	-----

Hydraulic separator kits

Accessories

## FLOOR STANDING BOILERS

### Single configuration

Time Power Floor 90K-100K*-115K-160K	1:10	✓	✓	✓	✓	✓	✓	139
--------------------------------------	------	---	---	---	---	---	---	-----

### Cascade configuration

2 boilers cascade	1:40	✓	✓	✓	✓	✓	✓	140
-------------------	------	---	---	---	---	---	---	-----

3 boilers cascade	1:40	✓	✓	✓	✓	✓	✓	142
-------------------	------	---	---	---	---	---	---	-----

4 boilers cascade	1:47	✓	✓	✓	✓	✓	✓	144
-------------------	------	---	---	---	---	---	---	-----

Hydraulic separator kits

Accessories

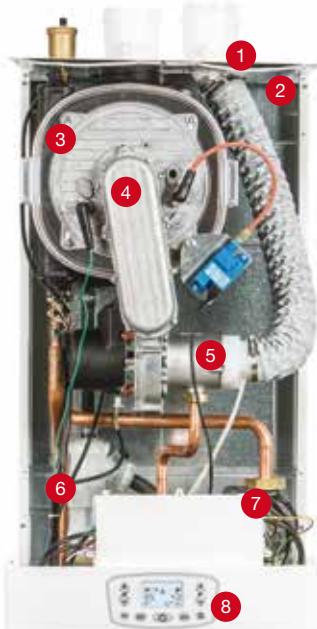
### Legend:



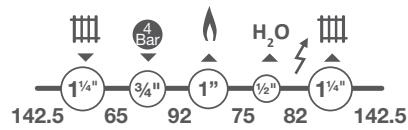
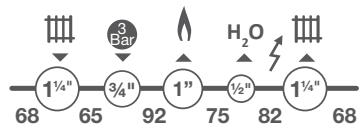
**Qn** = nominal heat input in CH • **η** = efficiency \* With boiler working in condensation (system flow 50°C; system return 30°C)

\*for EXTRA EU markets ONLY

# Wall-hung boilers single configuration



- 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



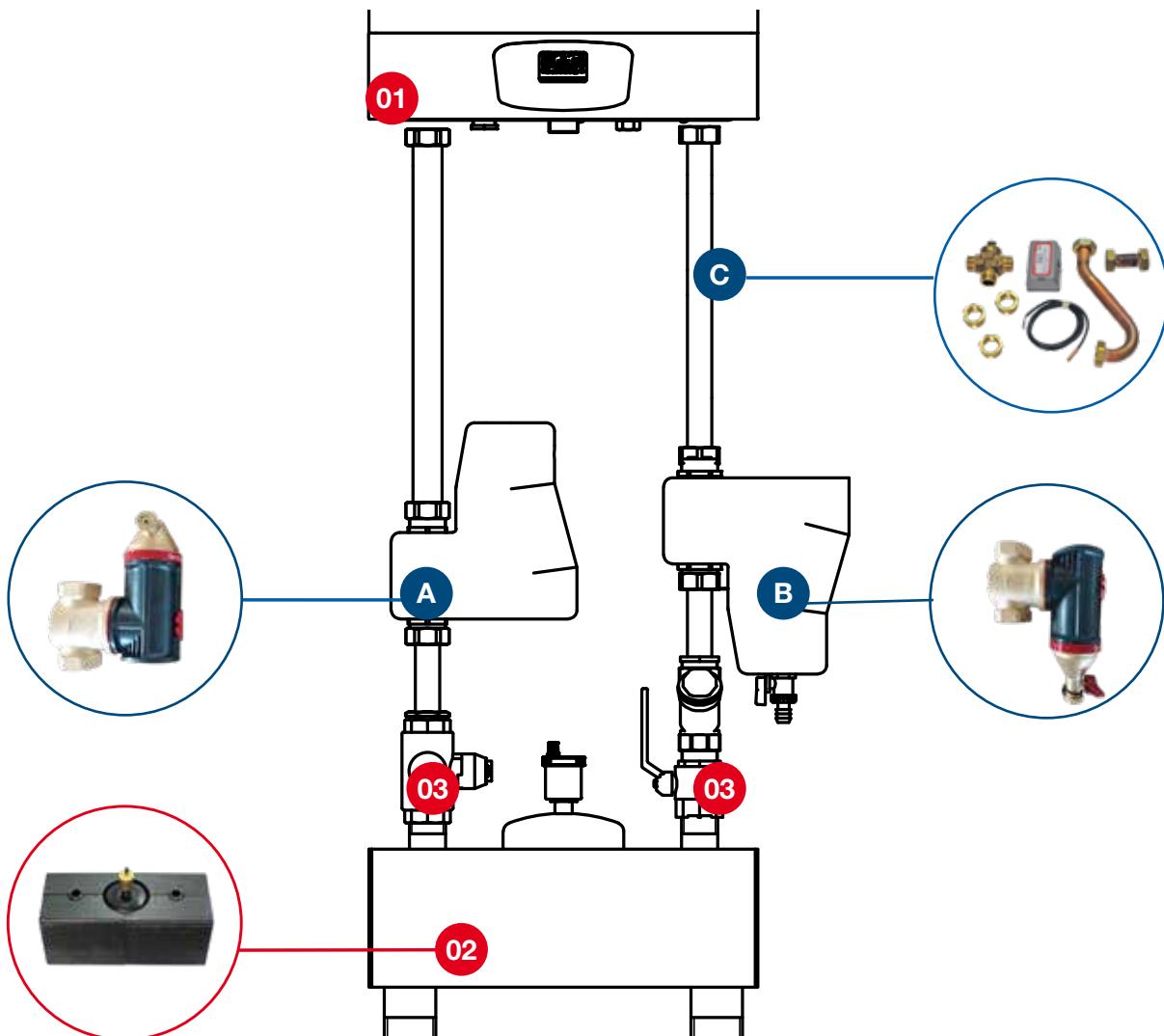
Model	W x H x D (mm)	Weight (kg)	Qn/Qmin (kW)	Qnw (kW)	$\eta_{30}$ at Qn (%)	$\varnothing$ flue (mm)	Energy efficiency class
Time Power 50 K	450 x 837 x 475	38.8	47.5 / 5	47.5	106.7	80	A
Time Power 70 K		45.8	63 / 7	63	107.2	80	A
Time Power 90 K		86.5	85 / 9.5	85	106.1	100	-
Time Power 100 K*	600 x 837 x 620	92.0	100 / 11	100	109.1	100	-
Time Power 115 K		92.0	108 / 11	108	109.1	100	-
Time Power 160 K	600 x 837 x 725	105.0	150 / 25.0	105.0	109.2	100	-

\*for EXTRA EU markets ONLY



# Time Power with balancer

50 K 70 K 90 K 100K\* 115 K



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

## Configuration components

01 Boiler	as per boiler combination table	1
02 Horizontal balancer	401150005	1
03 Hydraulic connection kit	401150062	1

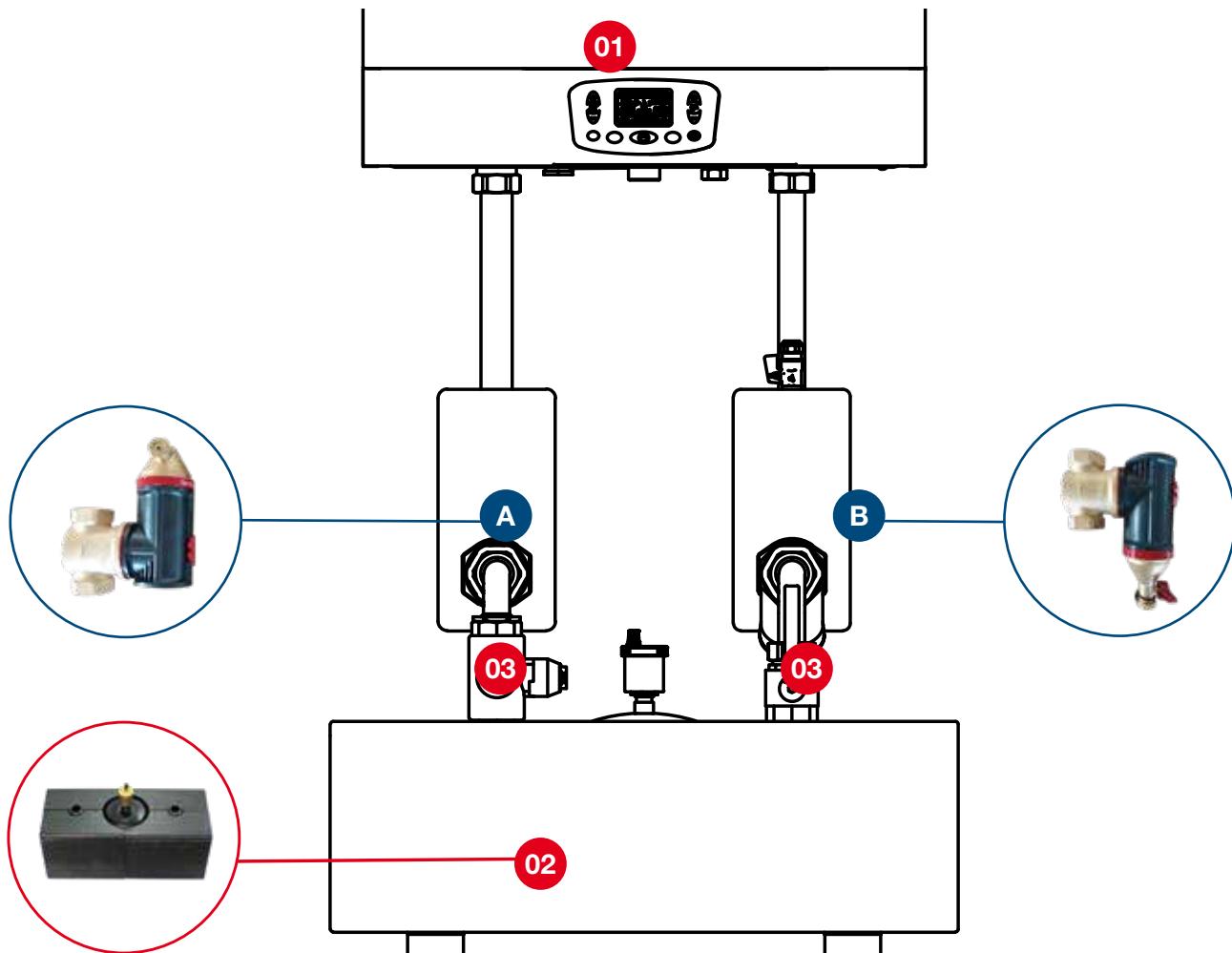
## ACCESSORIES

A Separator kit for micro-bubbles	401150003	1
B Separator kit for micro-impurities	401150002	1
C DHW 3-way valve with NTC sensor	401150001	1
Outdoor temperature sensor	401060001	1

\*for EXTRA EU markets ONLY

# Time Power with balancer

160 K



Boilers Nr.	Boiler		W x H' x D (mm)	Qn / Qmin (kW)	Ø flue system (mm)
1	160 K	1:6	702 x 2375 x 810 <small><sup>1</sup> H without flue systems</small>	150/25	100

## Configuration components

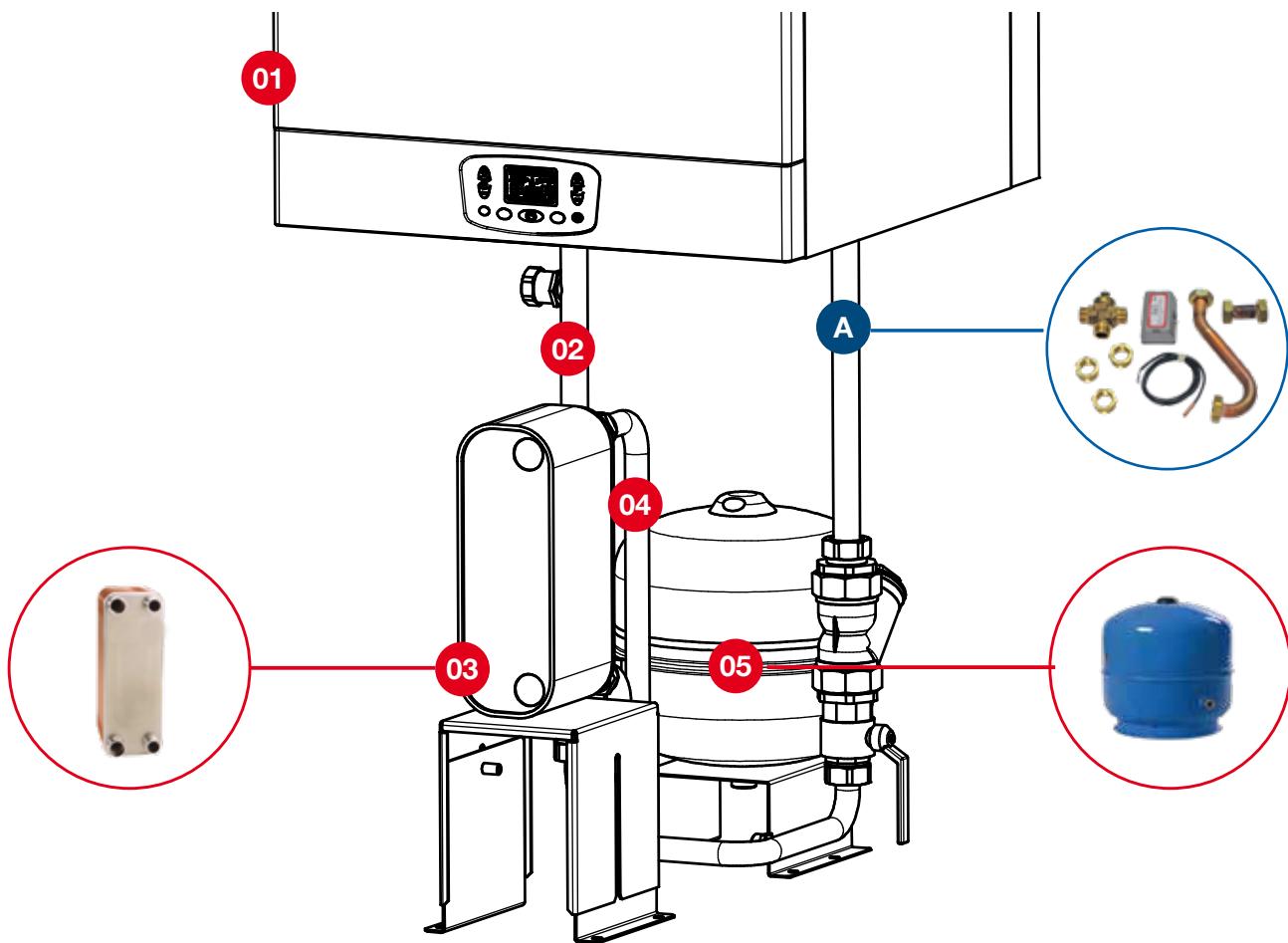
01 Boiler	as per boiler combination table	1
02 Horizontal balancer	401150092	1
03 Hydraulic connection kit	401150093	1

## ACCESSORIES

A Separator kit for micro-bubbles	401150090*	1
B Separator kit for micro-impurities	401150089	1
Outdoor temperature sensor	401060001	1

\* the appearance of these accessories may differ slightly from the images shown

# Time Power with Heat exchanger 50 K 70 K 90 K 100K\*115 K



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

## Configuration components

<b>01</b> Boiler	as per boiler combination table	1
<b>02</b> Hydraulic connection kit	401150062	1
<b>03</b> Plate Heat exchanger	50K 70K 90K 115K	401150157 attacks 1"-55 kW 401150158 attacks 1"-68 kW 401150159 attacks 1"-89 kW 401150160 attacks 1"-114 kW
<b>04</b> Exchanger connection kit	401150173	
<b>05</b> Expansion vessel kit	401150113	1

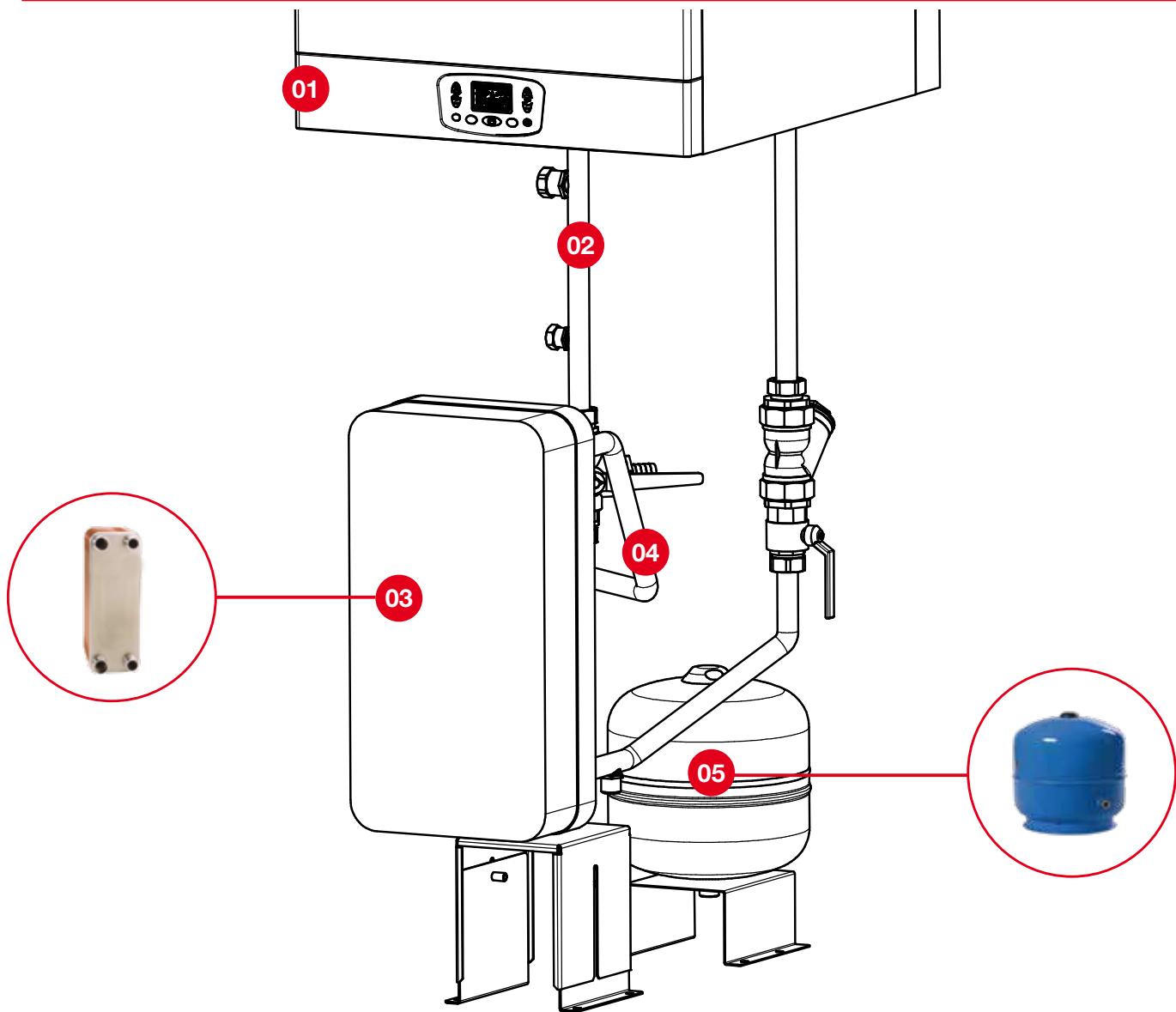
## ACCESSORIES

<b>A</b> DHW 3-way valve with NTC sensor	401150001	1
Outdoor temperature sensor	401060001	1

\*for EXTRA EU markets ONLY

# Time Power with Heat exchanger

160 K



Boilers Nr.	Boiler		W x H <sup>1</sup> x D (mm)	Qn / Qmin (kW)	Ø flue system (mm)
1	160 K	1:6	702 x 2375 x 810 <small><sup>1</sup> H without flue systems</small>	150/25	100

Configuration components		
01 Boiler	as per boiler combination table	1
02 Hydraulic connection kit	401150179	1
03 Plate Heat exchanger	401150104 - attacks 2" <b>180 kW</b>	
04 Exchanger connection kit	401150174	
05 Expansion vessel kit	401150113	1

ACCESSORIES		
Outdoor temperature sensor	401060001	1

# Accessories for thermoregulation

---

401060001  
**Outdoor temperature sensor**



401080010  
**Remote control with climatic regulator** english version

401080020  
french/spanish version



**Weekly scheduling digital chronothermostat**

401080002 **wired connection version**

401080004 **GSM version**

401080005 **RF version**



401110001  
**CH multi zones interface PCB**  
*Required only if the Remote control cod. is installed*



401139002  
**Temperature sensor kit for external storage**



## Accessories for single configuration

---

401150010  
**Condensate neutralisation filter**



401150040  
**Condensate neutralisation filter fittings kit**



# Gas conversion kits



50 K	70 K	90 K	100 K	115 K	160 K
------	------	------	-------	-------	-------

401044345 <b>G30/31</b> 401044460 <b>G20</b>	✓				
401044470 <b>G30/31</b> 401044740 <b>G20</b>		✓			
401044480 <b>G30/31</b> 401044560 <b>G20</b>			✓		
401044520 <b>G30/31</b> 401044640 <b>G20</b>				✓	✓
401044960 <b>G30/31</b> 401044135 <b>G20</b>					✓

*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



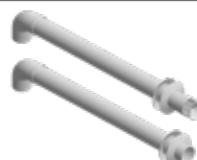
401000009  
Sloped roof tile kit



401000010  
Plain roof tile kit



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

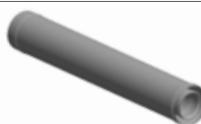


## Concentric

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

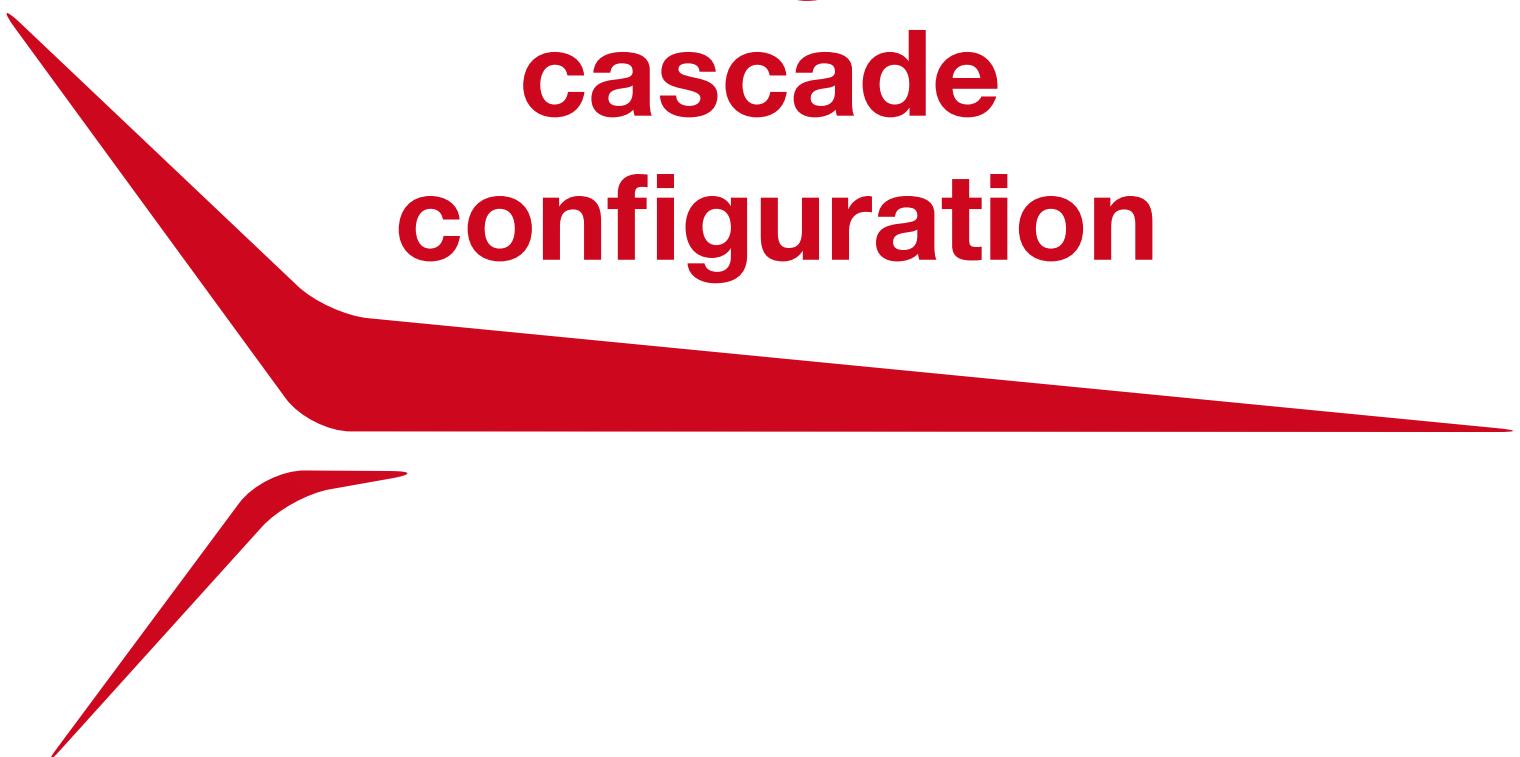


401005011  
Concentric extension kit  
Ø 100 mm / 150mm



# **Wall-hung boilers**

## **cascade configuration**





- ▶ **Up to 6 boilers - 900 kW - in cascade configuration**  
complete management
  
- ▶ **Up to 9 boilers - 1.35 MW - in cascade configuration**  
electronic management only

# 2 boilers cascade configuration



- 2 generators in line (from 95 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

<b>Boilers Nr.</b>	<b>Plant power</b>	<b>Boilers combination</b>		<b>W x H* x D (mm)</b>	<b>Qn / Qmin (kW)</b>	<b>Ø flue (mm)</b>
	<b>95 kW</b>	50 K + 50 K	1:19		96/5	80 125
	<b>111 kW</b>	50 K + 70 K	1:22		110.5/5	80 125
	<b>126 kW</b>	70 K + 70 K	1:18		126/7	80 125
	<b>170 kW</b>	90 K + 90 K	1:17		170/9	100 160
<b>2</b>	<b>193 kW</b>	90 K + 115 K	1:20	1918 x 2086 x 632	193/9	100 160
	<b>216 kW</b>	115 K + 115 K	1:19		216/11	100 160
	<b>235 kW</b>	160 K + 90 K	1:24	1918 x 2086 x 740	235/9.5	100 160
	<b>258 kW</b>	160 K + 115 K	1:23		258/25	100 160
	<b>300 kW</b>	160 K + 160 K	1:12	1920 x 2144 x 740	300/25	100 200

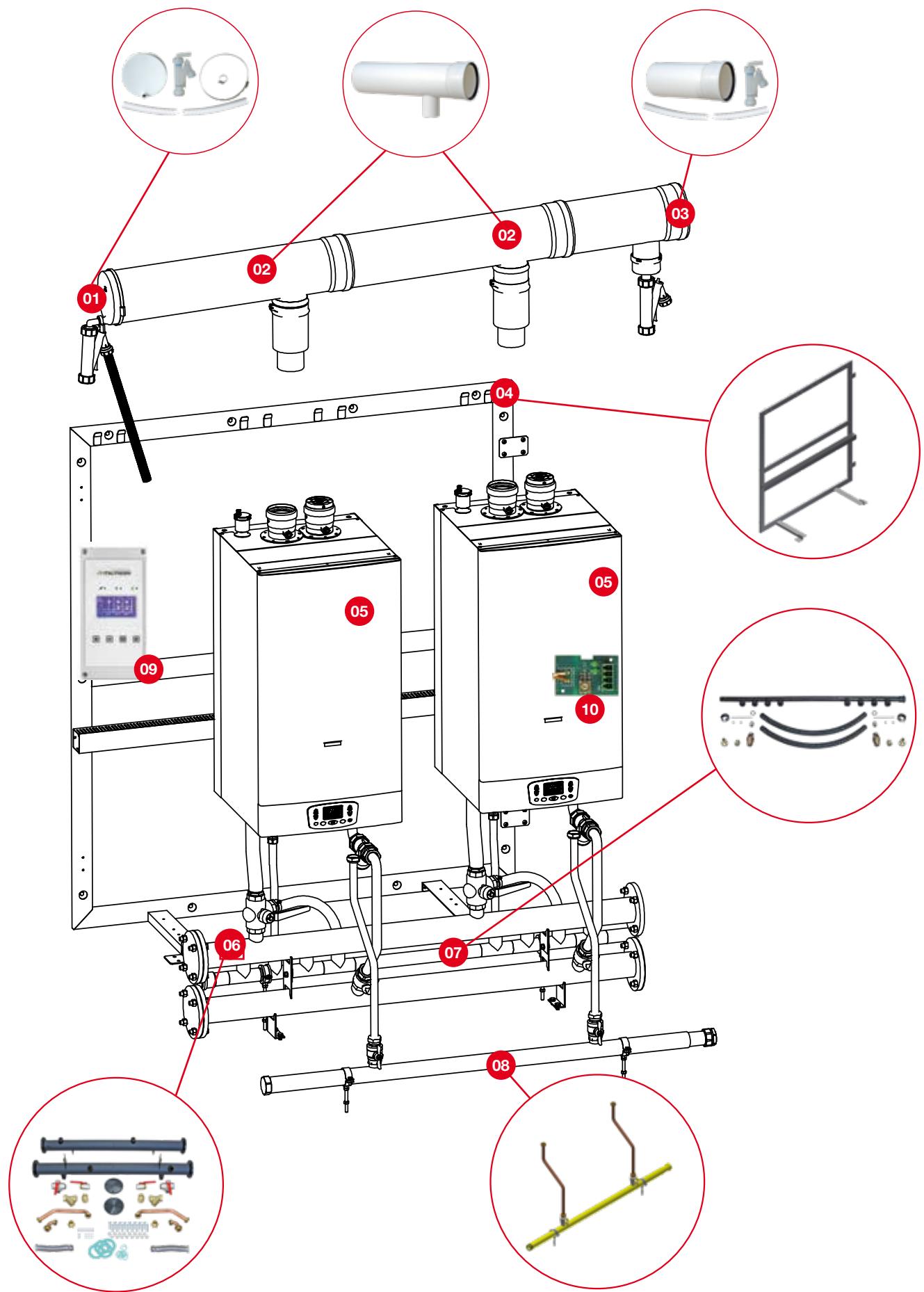
\*Height including flue system

## Configuration components

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

Flue system:	from 95 kW to 126 kW		from 170 kW to 258 kW		for 300 kW	
<b>02</b>	Flue manifold kit	401007001	2	<b>Ø 125/80</b>	401007006	2
<b>01</b>	Flue manifold plug kit with siphon	401007003	1	<b>Ø 125</b>	401007004	1
<b>03</b>	Flue manifold kit with siphon	401007009	1	<b>Ø 125</b>	401007010	1
				<b>Ø 160</b>	401007008	2
				<b>Ø 200</b>	401007005	1
				<b>Ø 200</b>	401007011	1

## 2 boilers cascade components



# **NEW** 2 boilers cascade configuration BACK TO BACK



- 2 generators free standing back to back (from 95 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

<b>Boilers Nr.</b>	<b>Plant power</b>	<b>Boilers combination</b>		<b>W x H* x D (mm)</b>	<b>Qn / Qmin (kW)</b>	<b>Ø flue (mm)</b>
	<b>95 kW</b>	50 K + 50 K	1:19		95/5	80 200
	<b>111 kW</b>	50 K + 70 K	1:22	1392 x 2215 x 1010	110.5/5	80 200
	<b>126 kW</b>	70 K + 70 K	1:18		126/7	80 200
	<b>170 kW</b>	90 K + 90 K	1:17		170/9,5	100 200
<b>2</b>	<b>193 kW</b>	90 K + 115 K	1:20	1392 x 2215 x 1280	193/9,5	100 200
	<b>216 kW</b>	115 K + 115 K	1:19		216/11	100 200
	<b>235 kW</b>	160 K + 90 K	1:24	1392 x 2215 x 1390	235/9,5	100 200
	<b>258 kW</b>	160 K + 115 K	1:23		258/11	100 200
	<b>300 kW</b>	160 K + 160 K	1:12	1392 x 2215 x 1500	300/25	100 200

\*Height including flue system

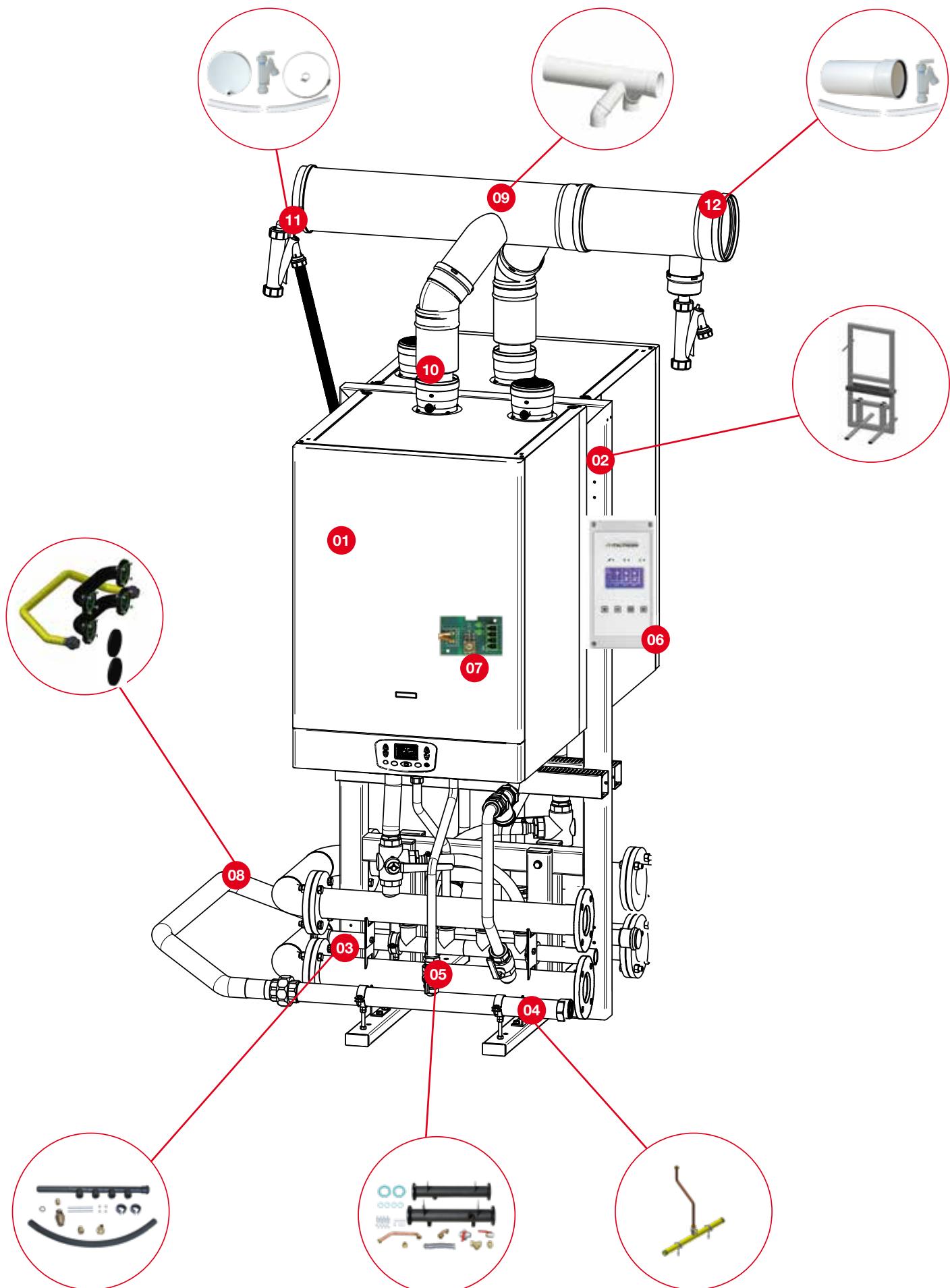
## Configuration components

<b>01</b>	<b>Boilers</b>	as per boilers combination table	2
<b>02</b>	<b>2-elementary back to back frame kit</b>	401150171	1
<b>03</b>	<b>Condensate drain manifold kit 1 element</b>	401150033	2
<b>04</b>	<b>Gas manifold kit 1 element</b>	401150019	2
<b>05</b>	<b>Water manifold kit (D+R) 1 element</b>	401150023	2
<b>06</b>	<b>Cascade management controller</b> english version <b>Cascade management controller</b> spanish version	401150096 401150133	1
<b>07</b>	<b>Interface PCB boiler cascade controller</b>	401150056	1
<b>08</b>	<b>Manifold connection kit</b>	401150029	1

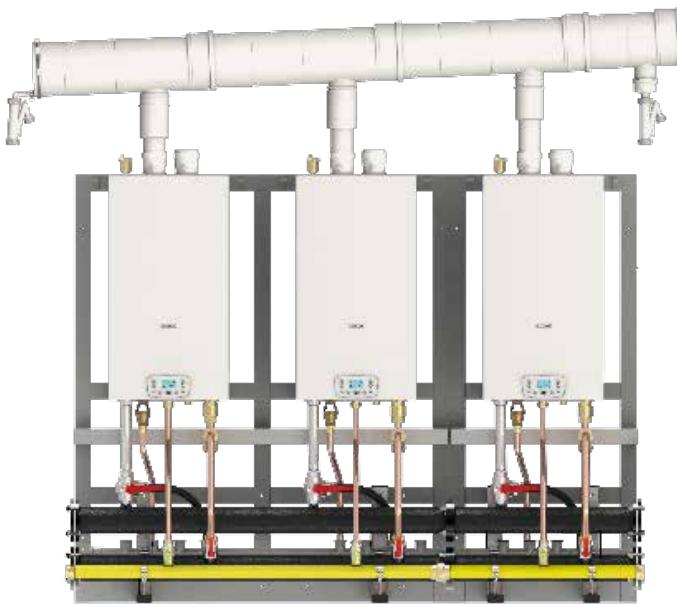
Flue system:	<b>from 95 kW to 126 kW</b>		<b>from 170 kW to 300 kW</b>		
<b>09</b> Flue manifold kit	Ø 200	401007029	1	Ø 200	401007029
<b>10</b> Clapè kit	Ø 80	401007027	2	Ø 100	401007028
<b>11</b> Flue manifold plug kit	Ø 200	401007005	1	Ø 200	401007005
<b>12</b> Flue manifold kit with siphon	Ø 200	401007011	1	Ø 200	401007011

## 2 boilers cascade components

BACK TO BACK



# 3 boilers cascade configuration



- 3 generators in line (from 143 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

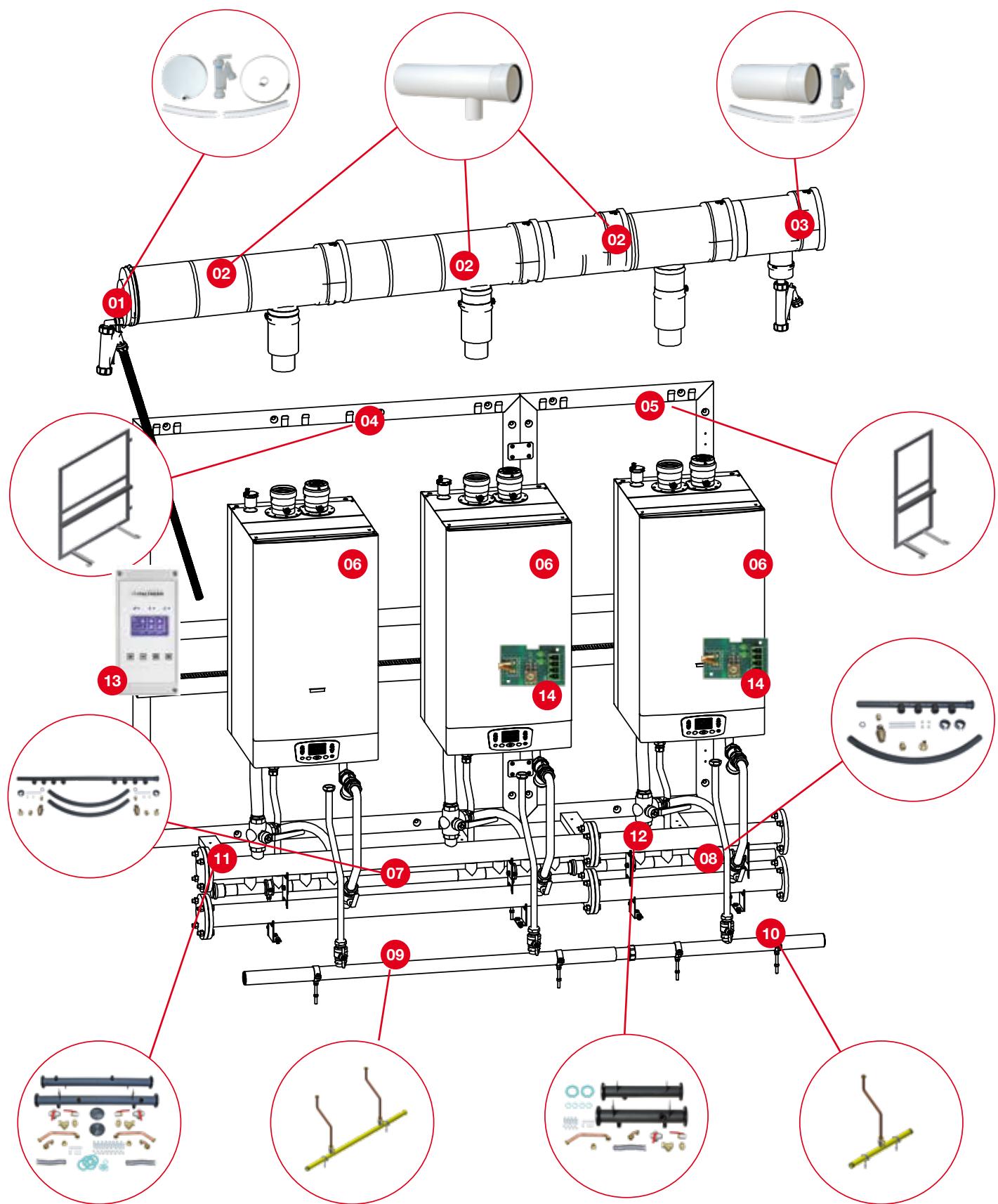
<b>Boilers Nr.</b>	<b>Plant power</b>	<b>Boilers combination</b>		<b>W x H* x D (mm)</b>	<b>Qn / Qmin (kW)</b>	<b>Ø flue (mm)</b>
<b>143 kW</b>	50 K + 50 K + 50 K	1:28		2608 x 2082 x 494	142.5/5	80 125
<b>158 kW</b>	50 K + 50 K + 70 K	1:31			158/5	80 125
<b>174 kW</b>	50 K + 70 K + 70 K	1:34			173.5/5	80 160
<b>189 kW</b>	70 K + 70 K + 70 K	1:27		2618 x 2116 x 494	189/5	80 160
<b>255 kW</b>	90 K + 90 K + 90 K	1:26		2618 x 2116 x 632	255/9.5	100 160
<b>278 kW</b>	90 K + 90 K + 115 K	1:29		2620 x 2174 x 632	278/9.5	100 200
<b>301 kW</b>	90 K + 115 K + 115 K	1:31			301/9.5	100 200
<b>320 kW</b>	160 K + 90 K + 90 K	1:33		2620 x 2174 x 740	320/9.5	100 200
<b>324 kW</b>	115 K + 115 K + 115 K	1:29		2620 x 2174 x 632	324/11	100 200
<b>343 kW</b>	160 K + 115 K + 90 K	1:36			343/9.5	100 200
<b>366 kW</b>	160 K + 115 K + 115 K	1:34			366/11	100 200
<b>385 kW</b>	160 K + 160 K + 90 K	1:40		2620 x 2174 x 740	385/9.5	100 200
<b>408 kW</b>	160 K + 160 K + 115 K	1:37			408/11	100 200
<b>450 kW</b>	160 K + 160 K + 160 K	1:18			450/25	100 200

\*Height including flue system

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

<b>Flue system:</b>	<b>for 143 kW</b>	<b>from 158 kW to 255 kW *only for 255kW version</b>	<b>from 278 kW to 450 kW</b>
<b>02</b> Flue manifold kit	Ø 125/80 401007001 3	Ø 160/80 401007002 3 Ø 160/100 401007006* 3	Ø 200/100 401007008 3
<b>01</b> Flue manifold plug kit with siphon	Ø 125 401007003 1	Ø 160 401007004 1	Ø 200 401007005 1
<b>03</b> Flue manifold kit with siphon	Ø 125 401007009 1	Ø 160 401007010 1	Ø 200 401007011 1

## 3 boilers cascade components



**NEW** **3 boilers cascade configuration BACK TO BACK**



- 3 generators free standing back to back (da 143 a 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)
143 kW	50 K + 50 K + 50 K	1:28		142.5/5	80 200
158 kW	50 K + 50 K + 70 K	1:31		158/5	80 200
174 kW	50 K + 70 K + 70 K	1:34		173.5/5	80 200
189 kW	70 K + 70 K + 70 K	1:27		189/5	80 200
255 kW	90 K + 90 K + 90 K	1:26		255/9.5	100 200
278 kW	90 K + 90 K + 115 K	1:29	2085 x 2245 x 1280	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	2085 x 2245 x 1390	320/9.5	100 200
324 kW	115 K + 115 K + 115 K	1:29	2085 x 2245 x 1280	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	2085 x 2245 x 1390	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	2085 x 2245 x 1500	408/11	100 200
450 kW	160 K + 160 K + 160 K	1:18		450/25	100 200

\*Height including flue system

3

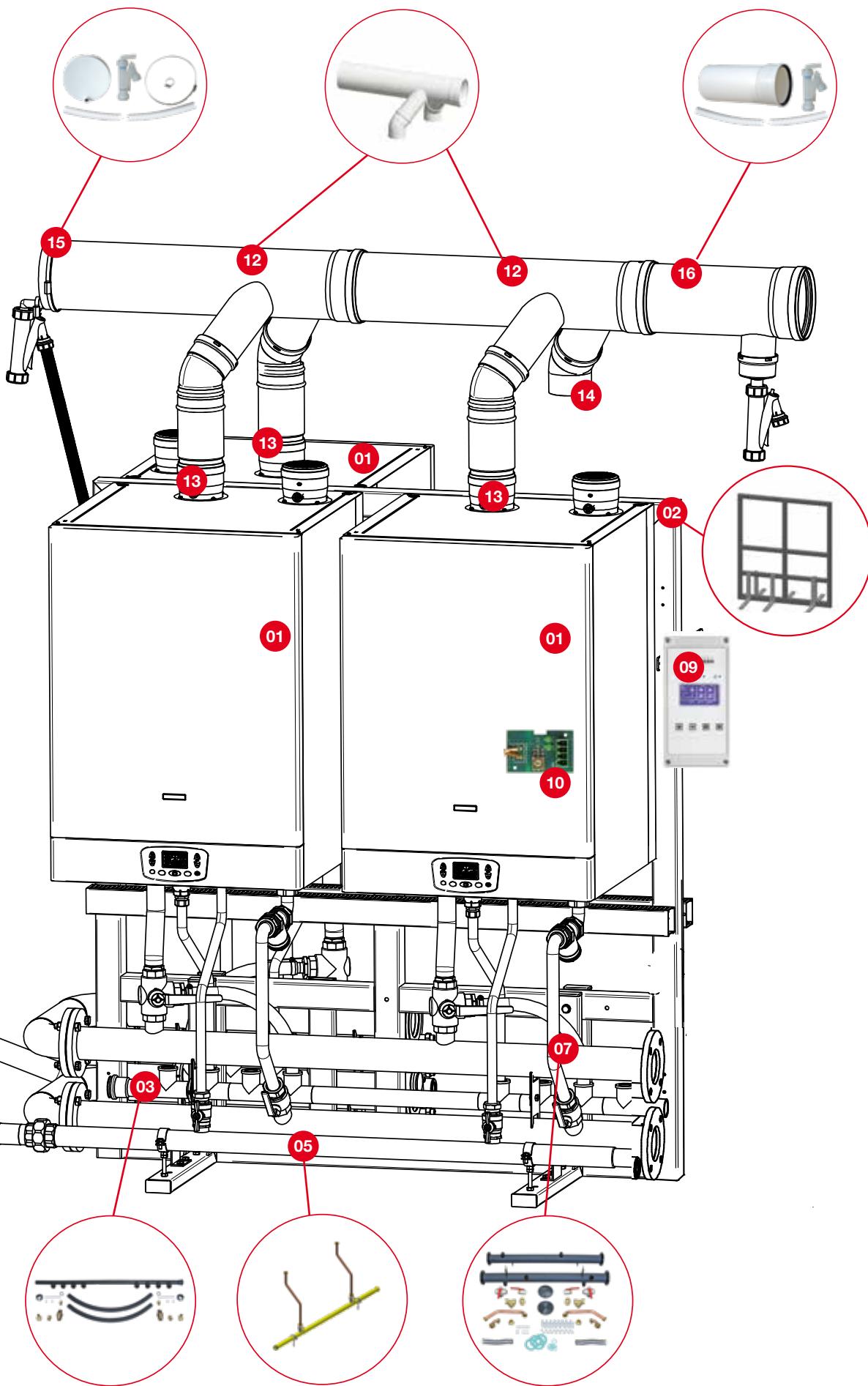
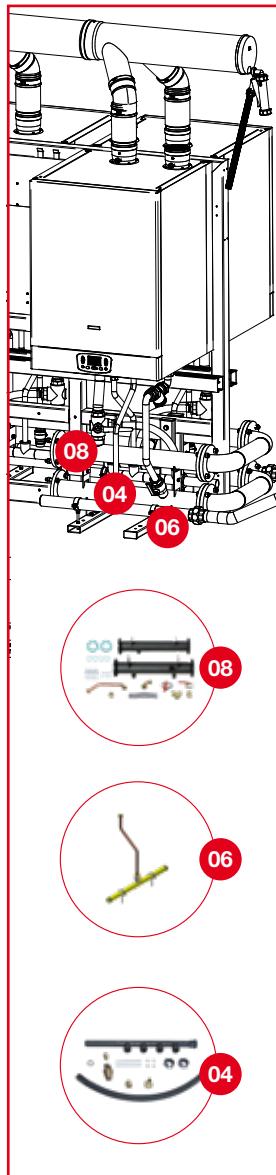
#### Configuration components

01	Boilers	as per boilers combination table	3
02	4-elementary back to back frame kit	401150172	1
03	Condensate drain manifold kit 2 elements	401150034	1
04	Condensate drain manifold kit 1 element	401150033	1
05	Gas manifold kit 2 elements	401150020	1
06	Gas manifold kit 1 element	401150019	1
07	Water manifold kit (D+R) 2 elements	401150024	1
08	Water manifold kit (D+R) 1 element	401150023	1
09	Cascade management controller english version Cascade management controller spanish version	401150096 401150133	1
10	Interface PCB boiler cascade controller	401150056	2
11	Manifold connection kit	401150029	1

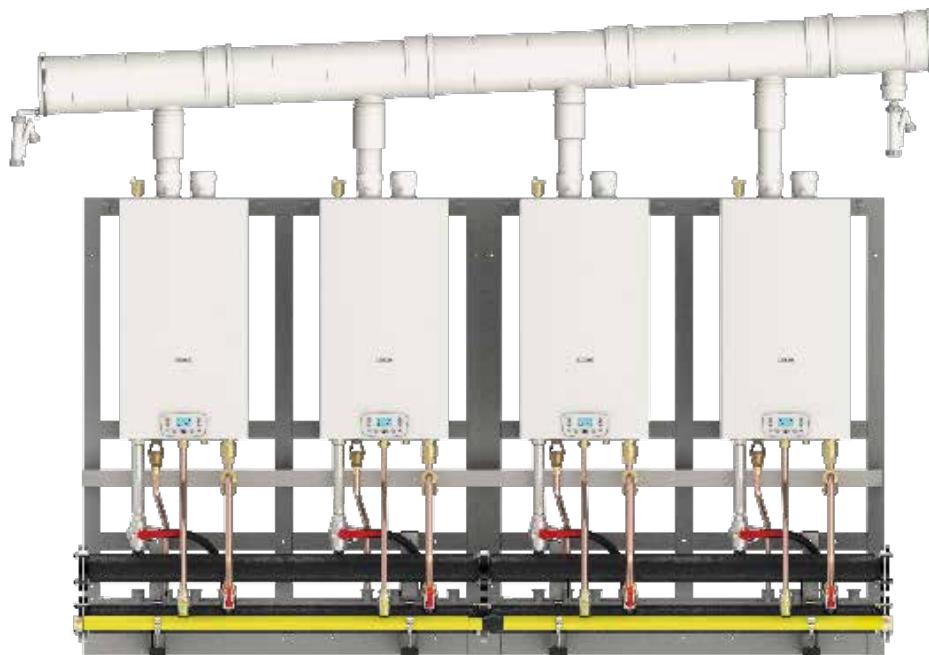
Flue system:	from 143 kW to 158 kW	from 174 kW to 450 kW	
12 Flue manifold kit	Ø 200	401007029	2
13 Clapè kit	Ø 80	401007027	3
14 Plug kit DN100		401007031	1
15 Flue manifold plug kit	Ø 200	401007005	1
16 Flue manifold kit with siphon	Ø 200	401007011	1

# 3 boilers cascade components

BACK TO BACK



# 4 boilers cascade configuration



- 4 generators in line (from 190 to 432 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

<b>Boilers Nr.</b>	<b>Plant power</b>	<b>Boilers combination</b>		<b>W x H* x D (mm)</b>	<b>Qn / Qmin (kW)</b>	<b>Ø flue (mm)</b>
	<b>190 kW</b>	50 K + 50 K + 50 K + 50 K	1:38		190/5.0	80 160
	<b>206 kW</b>	50 K + 50 K + 50 K + 70 K	1:41		205/5.0	80 160
	<b>221 kW</b>	50 K + 50 K + 70 K + 70 K	1:44		221/5.0	80 160
	<b>237 kW</b>	50 K + 70 K + 70 K + 70 K	1:47		236.5/5.0	80 160
	<b>252 kW</b>	70 K + 70 K + 70 K + 70 K	1:36		252/7.0	80 160
<b>4</b>	<b>340 kW</b>	90 K + 90 K + 90 K + 90 K	1:35		340/9.5	100 200
	<b>363 kW</b>	90 K + 90 K + 90 K + 115 K	1:38	3308 x 2146 x 494	363/9.5	100 200
	<b>386 kW</b>	90 K + 90 K + 115 K + 115 K	1:40		386/9.5	100 200
	<b>405 kW</b>	160 K + 90 K + 90 K + 90 K	1:42	3320 x 2220 x 740	405/9.5	100 200
	<b>409 kW</b>	115 K + 115 K + 115 K + 90 K	1:43	3320 x 2220 x 632	409/9.5	100 200
	<b>428 kW</b>	160 K + 115 K + 90 K + 90 K	1:45	3320 x 2220 x 740	428/9.5	100 200
	<b>432 kW</b>	115 K + 115 K + 115 K + 115 K	1:39	3320 x 2220 x 632	432/11	100 200

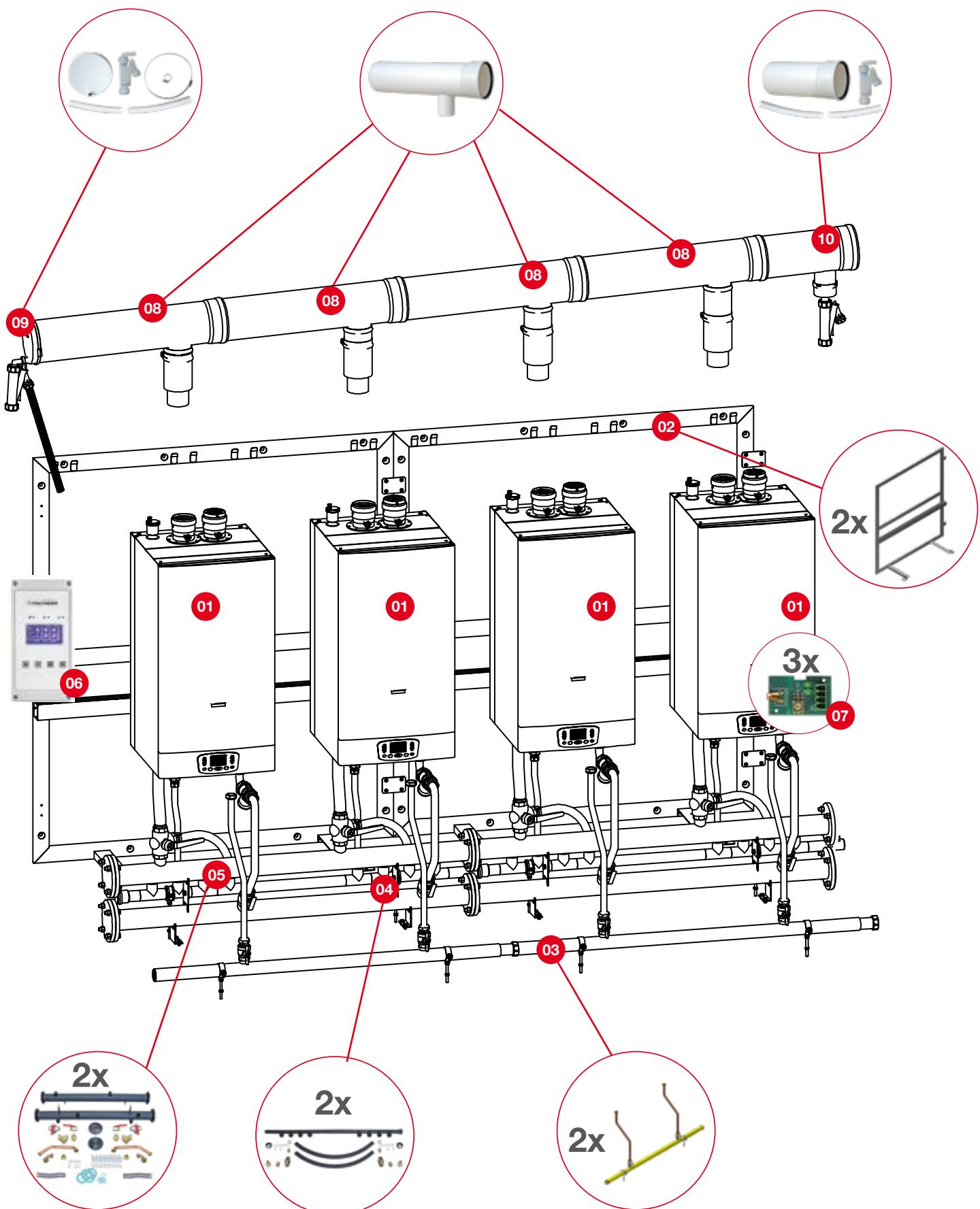
\*Height including flue system

## Configuration components

<b>01</b>	<b>Boilers</b>	as per boilers combination table	4
<b>02</b>	<b>2-element frame kit</b>	401150014	2
<b>03</b>	<b>GAS manifold kit 2 elements</b>	401150020	2
<b>04</b>	<b>Condensate drain manifold kit 2 elements</b>	401150034	2
<b>05</b>	<b>Water manifold kit (D+R) 2 elements</b>	401150024	2
<b>06</b>	<b>Cascade management controller</b> english version	401150096	1
	<b>Cascade management controller</b> spanish version	401150133	
<b>07</b>	<b>Interface PCB boiler cascade controller</b>	401150056	3

Flue system:	from 192 kW to 252 kW			from 340 kW to 432 kW		
	Ø 160/80	401007002	4	Ø 200/100	401007008	4
<b>08</b>	Flue manifold kit			<b>Ø 200</b>	401007005	1
<b>09</b>	Flue manifold plug kit with siphon	401007004	1	<b>Ø 200</b>	401007011	1
<b>10</b>	Flue manifold kit with siphon	401007010	1			

## 4 boilers cascade components



# **NEW** 4 boilers cascade configuration

**BACK TO BACK**



- 4 generators free standing back to back (from 190 to 600 kW)
- Modulation system ratio up to 1:48
- 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

<b>Boilers Nr.</b>	<b>Plant power</b>	<b>Boilers combination</b>		<b>W x H* x D (mm)</b>	<b>Qn / Qmin (kW)</b>	<b>Ø flue (mm)</b>
<b>190 kW</b>	50 K + 50 K + 50 K + 50 K	1:38			190/5	80 200
<b>206 kW</b>	50 K + 50 K + 50 K + 70 K	1:41			205.5/5	80 200
<b>221 kW</b>	50 K + 50 K + 70 K + 70 K	1:44			221/5	80 200
<b>237 kW</b>	50 K + 70 K + 70 K + 70 K	1:47			236.5/5	80 200
<b>252 kW</b>	70 K + 70 K + 70 K + 70 K	1:36			252/7	80 200
<b>340 kW</b>	90 K + 90 K + 90 K + 90 K	1:35			340/9.5	100 200
<b>363 kW</b>	90 K + 90 K + 90 K + 115 K	1:38		2085 x 2245 x 1280	363/9.5	100 200
<b>386 kW</b>	90 K + 90 K + 115 K + 115 K	1:40			386/9.5	100 200
<b>405 kW</b>	160 K + 90 K + 90 K + 90 K	1:42		2085 x 2245 x 1390	405/9.5	100 200
<b>409 kW</b>	115 K + 115 K + 115 K + 90 K	1:43		2085 x 2245 x 1280	409/9.5	100 200
<b>428 kW</b>	160 K + 115 K + 90 K + 90 K	1:45		2085 x 2245 x 1390	428/9.5	100 200
<b>432 kW</b>	115 K + 115 K + 115 K + 115 K	1:39		2085 x 2245 x 1280	432/11	100 200
<b>516 kW</b>	115 K + 115 K + 160 K + 160 K	1:42			470/11	100 300
<b>558 kW</b>	115 K + 160 K + 160 K + 160 K	1:48		1902* x 2302 x 1500 * without flue manifold (11)	535/11	100 300
<b>600 kW</b>	160 K + 160 K + 160 K + 160 K	1:24			600/25	100 300

\*Height including flue system

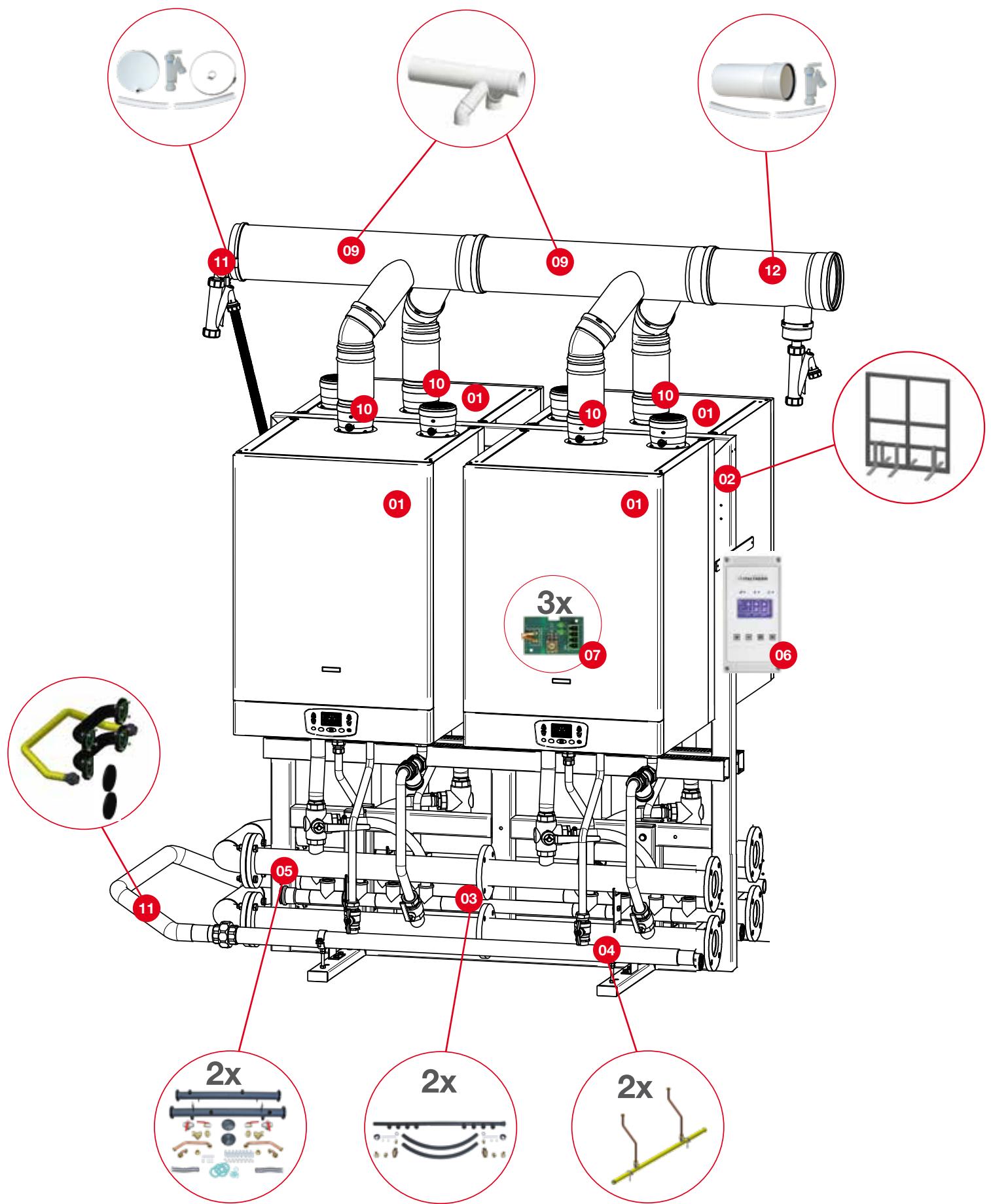
## Configuration components

<b>01</b> Boilers	as per boilers combination table	4
<b>02</b> 4-elementary back to back frame kit	401150172	1
<b>03</b> Condensate drain manifold kit 2 elements	401150034	2
<b>04</b> GAS manifold kit 2 elements	401150020	2
<b>05</b> Water manifold kit (D+R) 2 elements	401150024	2
<b>06</b> Cascade management controller english version <b>06</b> Cascade management controller spanish version	401150096 401150133	1
<b>07</b> Interface PCB boiler cascade controller	401150056	3
<b>08</b> Manifold connection kit	401150029	3

Flue system:		<b>from 90 kW to 252 kW</b>			<b>from 340 kW to 432 kW</b>			<b>from 470 kW to 600 kW</b>		
<b>09</b> Flue manifold kit	<b>Ø 200</b>	401007029	2	<b>Ø 200</b>	401007029	2	<b>Ø 300</b>	401007030	2	
<b>10</b> Clapè kit	<b>Ø 80</b>	401007027	4	<b>Ø 100</b>	401007028	4	<b>Ø 100</b>	401007028	4	
<b>11</b> Flue manifold plug kit	<b>Ø 200</b>	401007005	1	<b>Ø 200</b>	401007005	1	<b>Ø 300</b>	401007032	1	
<b>12</b> Flue manifold kit with siphon	<b>Ø 200</b>	401007011	1	<b>Ø 200</b>	401007011	1	<b>Ø 300</b>	401007033	1	

# 4 boilers cascade components

BACK TO BACK



# **NEW** 5 boilers cascade configuration

BACK TO BACK



- 5 generators free standing back to back (from 624 to 750 kW)
- Modulation system ratio up to 1:64
- 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

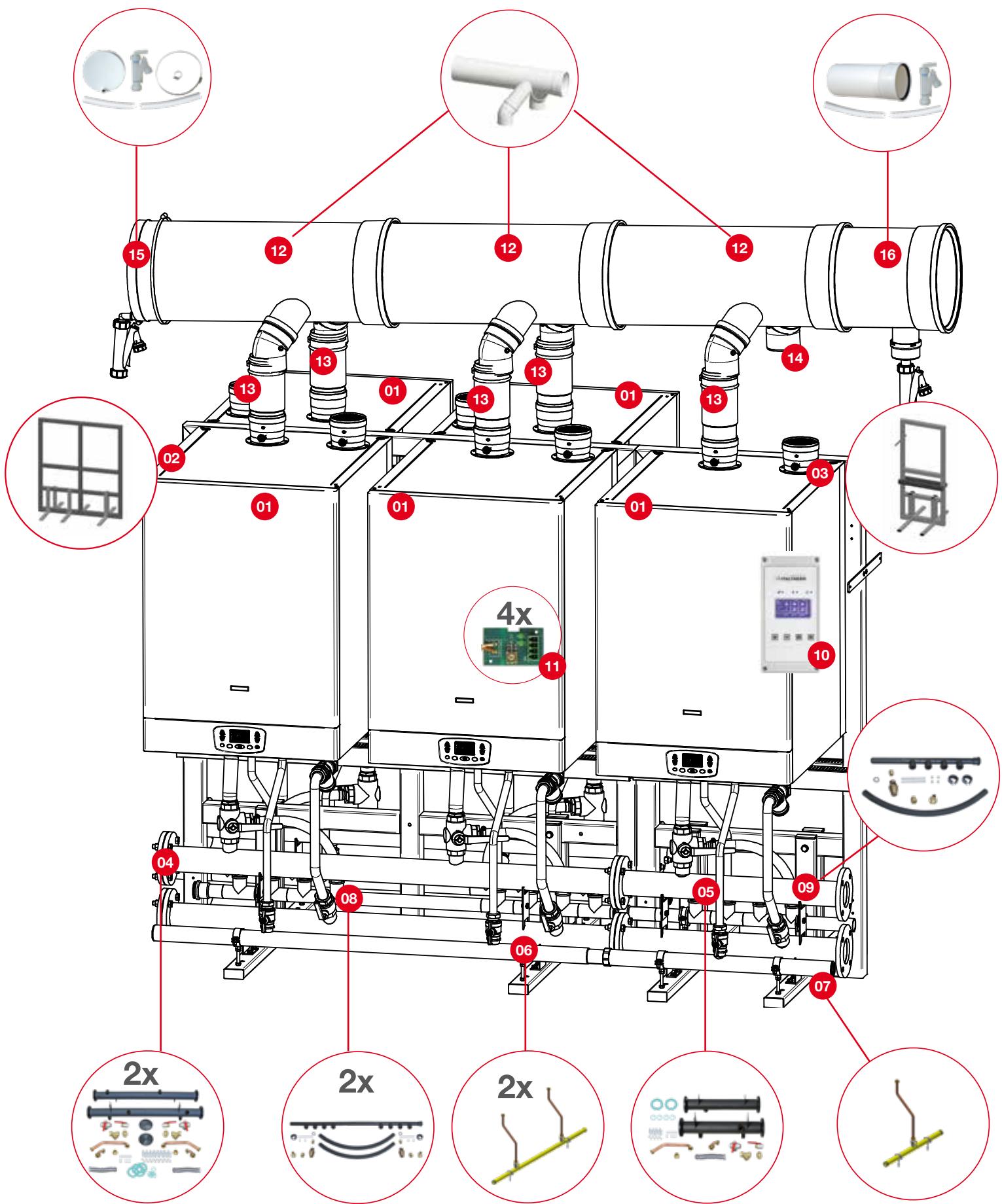
<b>Boilers Nr.</b>	<b>Plant power</b>	<b>Boilers combination</b>		<b>W x H* x D (mm)</b>	<b>Qn / Qmin (kW)</b>	<b>Ø flue (mm)</b>
5	<b>624 kW</b>	160 K + 160 K + 115 K + 115 K + 115 K	1:56	2601 x 2333 x 1500	624/11	100 300
	<b>666 kW</b>	160 K + 160 K + 160 K + 115 K + 115 K	1:60		666/11	100 300
	<b>708 kW</b>	160 K + 160 K + 160 K + 160 K + 115 K	1:64		708/11	100 300
	<b>750 kW</b>	160 K + 160 K + 160 K + 160 K + 160 K	1:30		750/25	100 300

## Configuration components

<b>01</b> Boilers	as per boilers combination table	5
<b>02</b> 4-elementary back to back frame kit	401150172	1
<b>03</b> 2-elementary back to back frame kit	401150171	1
<b>04</b> Condensate drain manifold kit 2 elements	401150034	2
<b>05</b> Condensate drain manifold kit 1 element	401150033	1
<b>06</b> GAS manifold kit 2 elements	401150020	2
<b>07</b> GAS manifold kit 1 element	401150019	1
<b>08</b> Water manifold kit (D+R) 2 elements	401150024	2
<b>09</b> Water manifold kit (D+R) 1 element	401150023	1
<b>10</b> Cascade management controller english version Cascade management controller spanish version	401150096 401150133	1
<b>11</b> Interface PCB boiler cascade controller	401150056	4
<b>Flue system:</b>		
<b>12</b> Flue manifold kit	Ø 300	401007030
<b>13</b> Clapè kit	Ø 100	401007028
<b>14</b> Plug kit DN 100-		401007031
<b>15</b> Flue manifold plug kit	Ø 300	401007032
<b>16</b> Flue manifold kit with siphon	Ø 300	401007033

# 5 boilers cascade components

BACK TO BACK



**NEW** **6 boilers cascade configuration BACK TO BACK**



- 6 generators free standing back to back (from 774 to 900 kW)
- Modulation system ratio up to 1:78
- 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

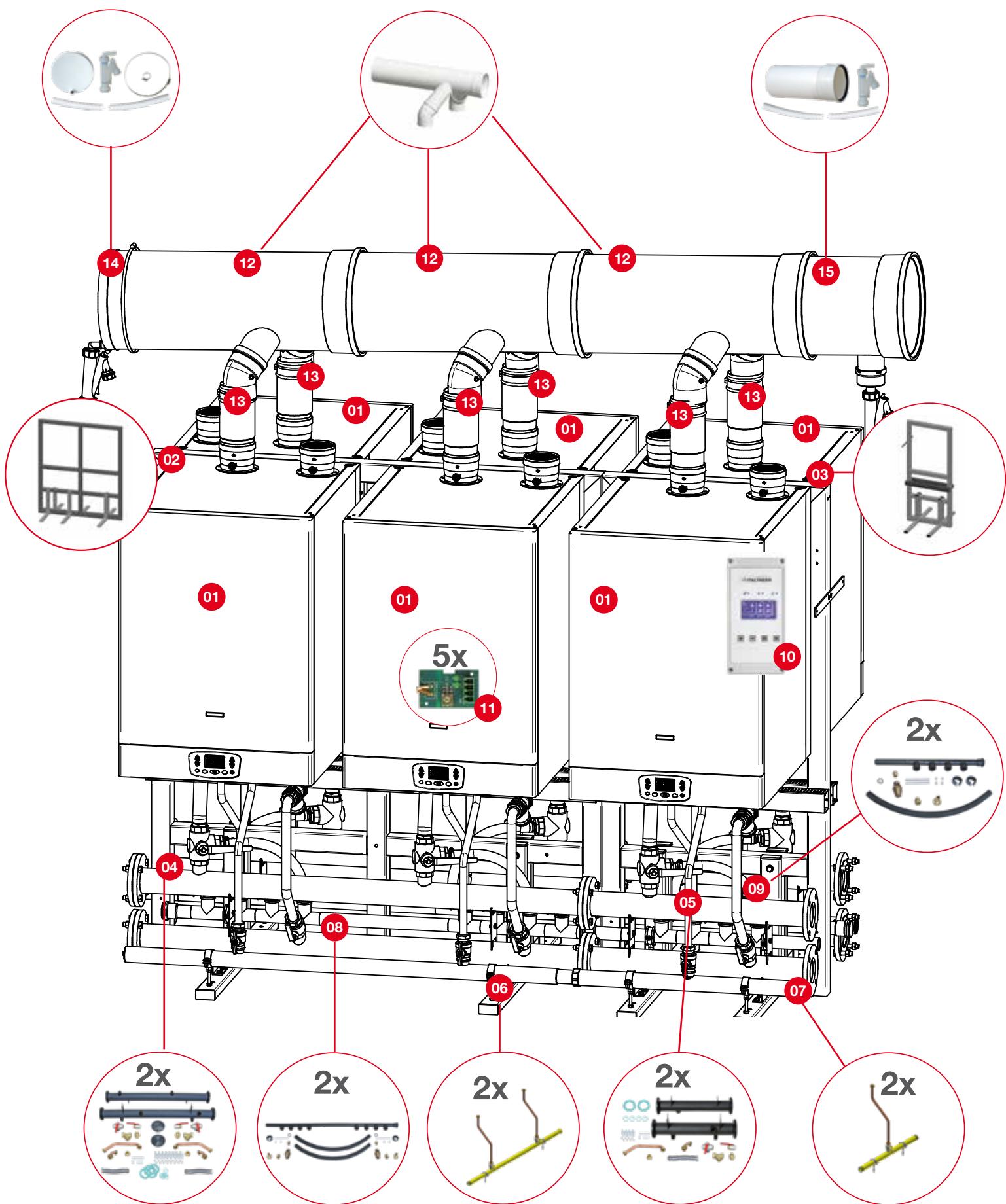
Boilers Nr.	Plant power	Boilers combination	W x H* x D (mm)	Qn / Qmin (kW)	Ø flue (mm)
	<b>774 kW</b>	160 K + 160 K + 160 K + 115 K + 115 K + 115 K	1:70	774/11	100 300
<b>6</b>	<b>816 kW</b>	160 K + 160 K + 160 K + 160 K + 115 K + 115 K	1:74	816/11	100 300
	<b>858 kW</b>	160 K + 115 K	1:78	858/11	100 300
	<b>900 kW</b>	160 K + 160 K	1:36	900/25	100 300

#### Configuration components

<b>01</b> Boilers	as per boilers combination table	6
<b>02</b> 4-elementary back to back frame kit	401150172	1
<b>03</b> 2-elementary back to back frame kit	401150171	1
<b>04</b> Condensate drain manifold kit 2 elements	401150034	2
<b>05</b> Condensate drain manifold kit 1 element	401150033	2
<b>06</b> GAS manifold kit 2 elements	401150020	2
<b>07</b> GAS manifold kit 1 element	401150019	2
<b>08</b> Water manifold kit (D+R) 2 elements	401150024	2
<b>09</b> Water manifold kit (D+R) 1 element	401150023	2
<b>10</b> Cascade management controller english version Cascade management controller spanish version	401150096 401150133	1
<b>11</b> Interface PCB boiler cascade controller	401150056	5
<b>Flue system:</b>		
<b>12</b> Flue manifold kit	Ø 300	401007030
<b>13</b> Clapè kit	Ø 100	401007028
<b>14</b> Flue manifold plug kit	Ø 300	401007032
<b>15</b> Flue manifold kit with siphon	Ø 300	401007033

# 6 boilers cascade components

BACK TO BACK



# Hydraulic separator kit with balancer\*\*



Balancer < 280 kW	Dimension (WxHxD)
① Balancer kit	401150031
680x1300x185	
② Balancer connection pipe kit	401150037
Balancer > 280 kW	Dimension (WxHxD)
① Balancer kit	401150048
740x1470x250	
② Balancer connection pipe kit	401150049



Balancer+sludge remover-deaerator < 280 kW	Dimension (WxHxD)
① Balancer kit	401150031
1030x1300x185	401150037
② Balancer connection pipe kit	
③ Sludge remover-deaerator	401150018
Balancer+sludge remover-deaerator > 280 kW	Dimension (WxHxD)
① Balancer kit	401150048
1210x1470x250	401150049
② Balancer connection pipe kit	
③ Sludge remover-deaerator	401150050

\*\*Accessories **NOT INCLUDED** in the configurations in pages 98 - 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 98 - 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\*\*

**< 350 kW      < 1.5 MW**

401150015  
Condensate neutralisation tank



401150016  
Pump for condensate neutralisation tank



401150180  
Condensate neutralisation tank **up to 1.5 MW**



401150181  
Condensate neutralisation tank + pump **up to 1.5 MW**



401150182  
Condensate neutralisation granulate kit **up to 1.5 MW**



## 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



\*\*Accessories **NOT INCLUDED** in the configurations in pages 98 - 76 - 79

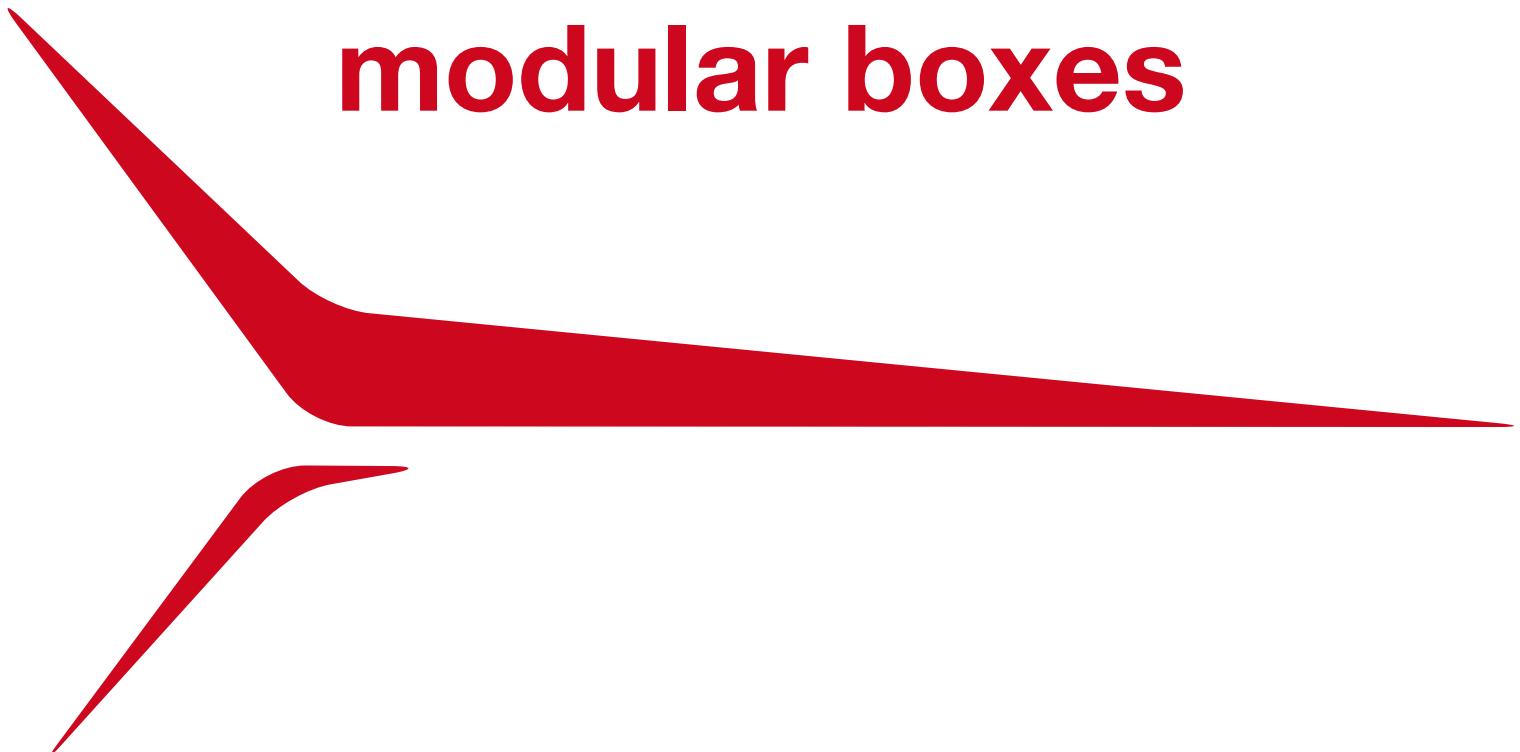
# Flue system for cascade configuration\*\*

< 160 kW < 270 kW > 270 kW

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

\*\*Accessories NOT INCLUDED in the configurations in pages 98 - 76 - 79

# **Outdoor boilers modular boxes**





# Modular box

50 K 70 K 90 K 100K\* 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

## BALANCER KIT VERSION

<b>Boilers Nr.</b>	<b>Boiler</b>		<b>W x H<sup>1</sup> x D (mm)</b>	<b>Qn / Qmin (kW)</b>	<b>Ø flue system (mm)</b>
	50 K	1:10		47.5/5	80
1	70 K	1:10		63 / 7	80
	90 K	1:10		85 / 9.5	100
	100 K*	1:10		85 / 9.5	100
	115 K	1:10		108 / 11	100

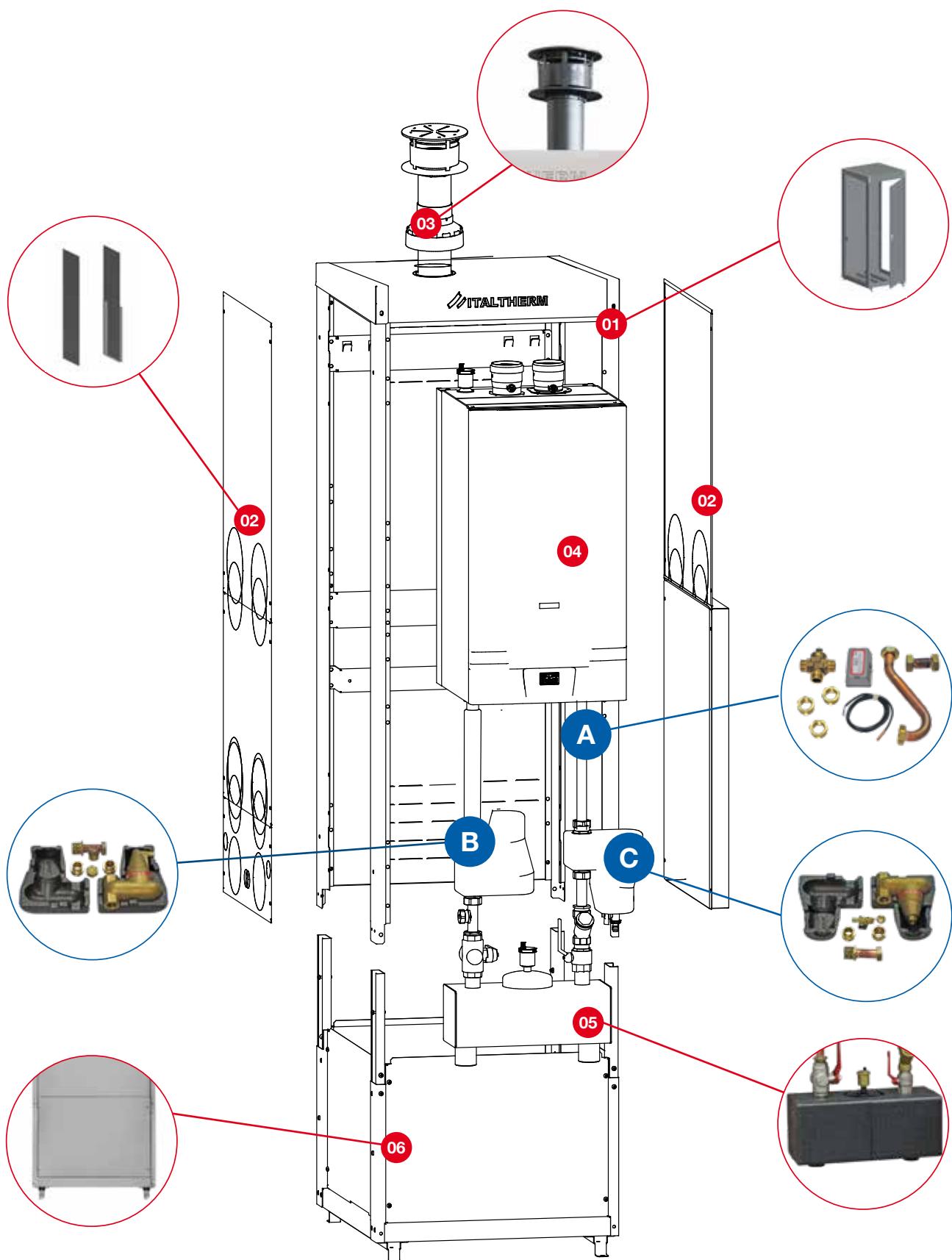
## Configuration components

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	Horizontal balancer kit	401150005	1
06	Elevation kit (for 50K-70K -90K-100 K*-115K)	401150112	1

\*for EXTRA EU markets ONLY

# Modular box components

50 K 70 K 90 K 100K\* 115 K



## ACCESSORIES

<b>A</b>	DHW 3-way valve with NTC sensor	401150001	1
<b>B</b>	Separator kit for micro impurities	401150002	1
<b>C</b>	Separator kit for micro bubbles	401150003	1
	Outdoor temperature sensor	401060001	1

# Modular box

50 K 70 K 90 K 100K\* 115 K



- Single 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

PLATE HEAT EXCHANGER VERSION

<b>Boilers Nr.</b>	<b>Boiler</b>		<b>W x H<sup>1</sup> x D (mm)</b>	<b>Qn / Qmin (kW)</b>	<b>Ø flue system (mm)</b>
1	50 K	1:10	702 x 1925 x 810	47,5/5	80
	70 K	1:10		63/7	80
	90 K	1:10		85/9,5	100
	100 K*	1:10		85/9,5	100
	115 K	1:10		108/11	100

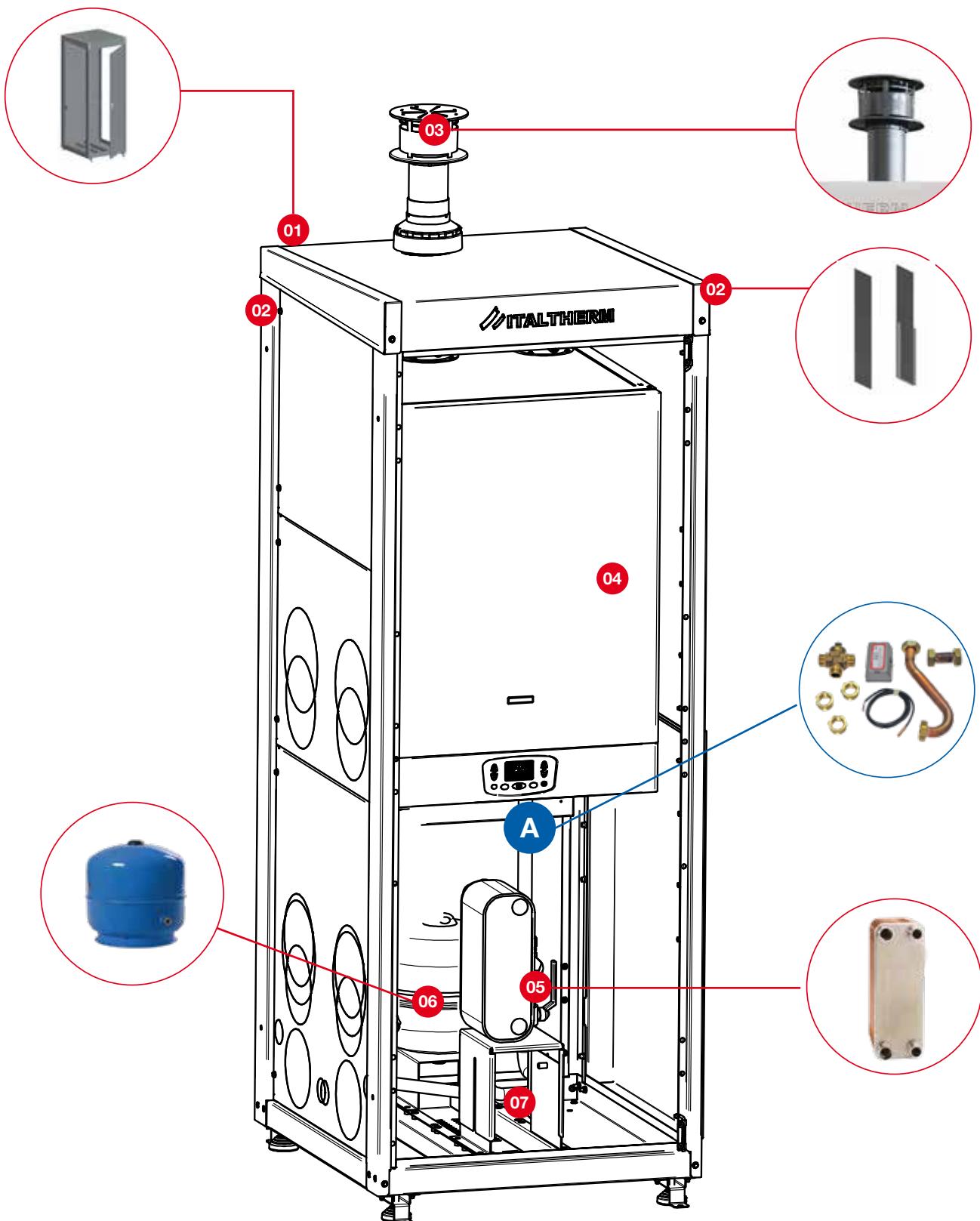
## Configuration components

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
		401150157 attacks 1"- 55 kW (mod. 50K/50K SP)	
		401150158 attacks 1"- 68 kW ( mod. 70 K)	
05	Insulated plate heat exchanger	401150159 attacks 1"- 89 kW ( mod. 90 K) 401150160 attacks 1"-114 kW ( mod. 115 K)	1
06	Expansion vessel kit	401150113	
07	Connection pipe kit	401150173 (mod. 50K-70K -90K - 115K)	

\*for EXTRA EU markets ONLY

# Modular box components

50 K 70 K 90 K 100K\* 115 K



## ACCESSORIES

A DHW 3-way valve with NTC sensor	401150001	1
Outdoor temperature sensor	401060001	1

# Modular box

160 K



PLATE HEAT EXCHANGER VERSION

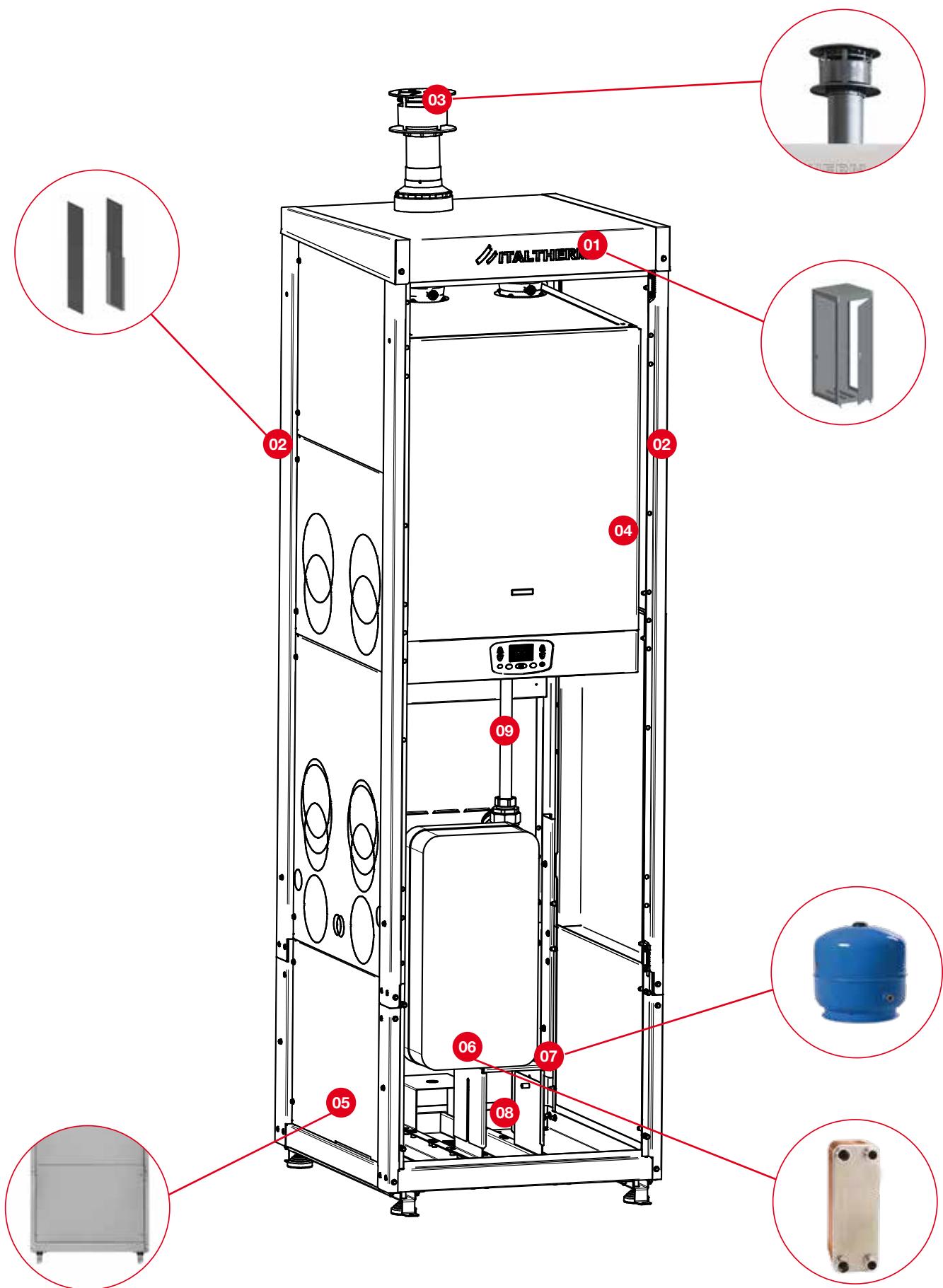
Boilers Nr.	Boiler		W x H <sup>1</sup> x D (mm)	Qn / Qmin (kW)	Ø flue system (mm)
1	160 K		702 x 2375 x 810 <small><sup>1</sup> H without flue systems</small>	150/25	100

## Configuration components

01	Modular box	401150102	1
02	Panels kit	401150103	1
03	Flue system	401006006	1
04	Boiler	as per boilers combination table	1
05	Elevation kit	401150112	1
06	Insulated plate heat exchanger up to 180 kW	401150104 attacks 2" 180 kW	1
07	Expansion vessel kit	401150113	
08	Connection pipe kit	401150174	
09	Hydraulic connection kit	401150179	

# Modular box components

160 K



## ACCESSORIES

Outdoor temperature sensor

401060001

1

# Modular box

160 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

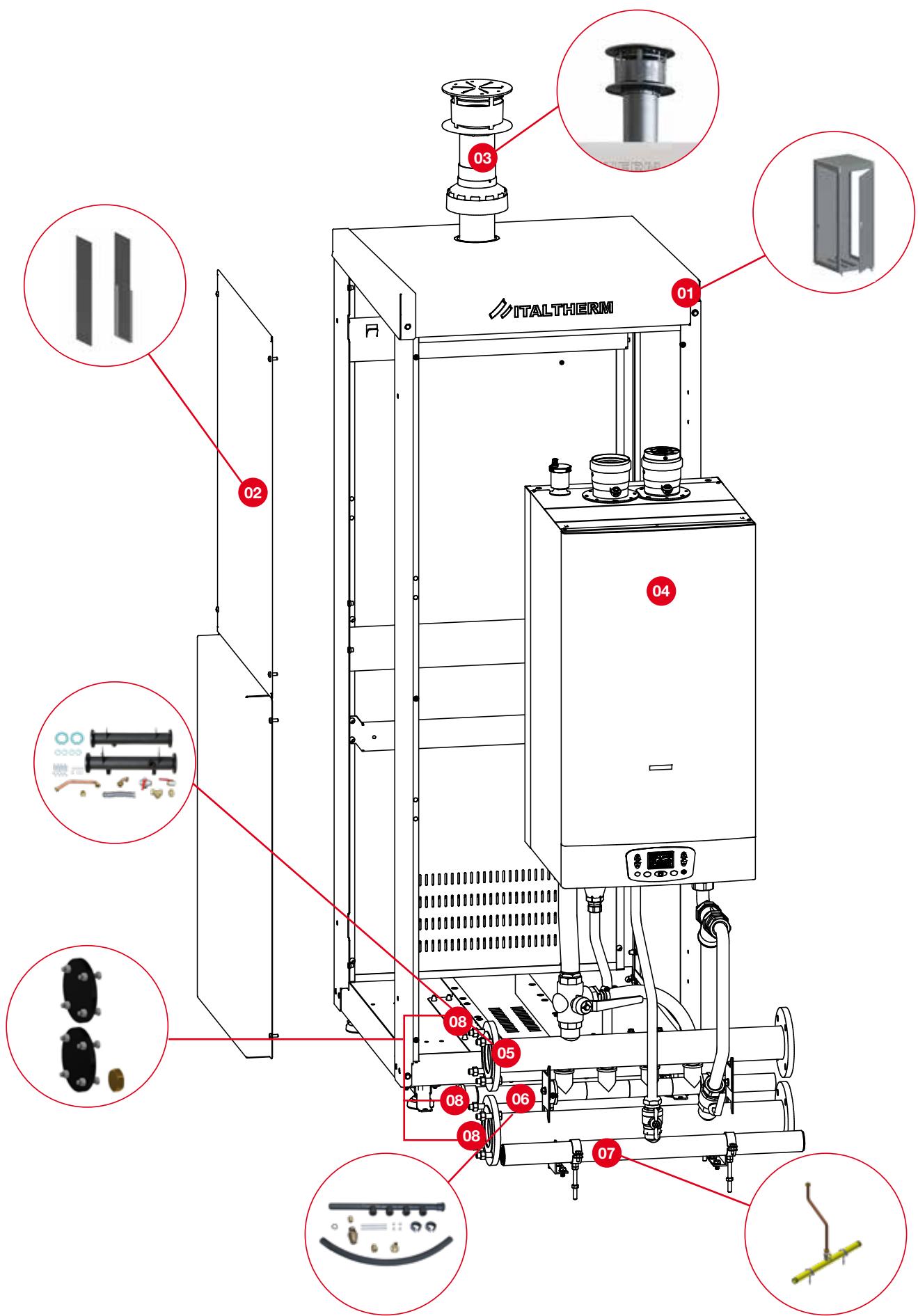
Boilers Nr.	Boiler		W x H <sup>1</sup> x D (mm)	Qn / Qmin (kW)	Ø flue system (mm)
1	160 K	1:6	702 x 1.925 x 810 <small><sup>1</sup>H without flue system</small>	150/ 25	100

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
08	Flanges kit	401150183	1

For "Hydraulic separator kit" see on page 136

# 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

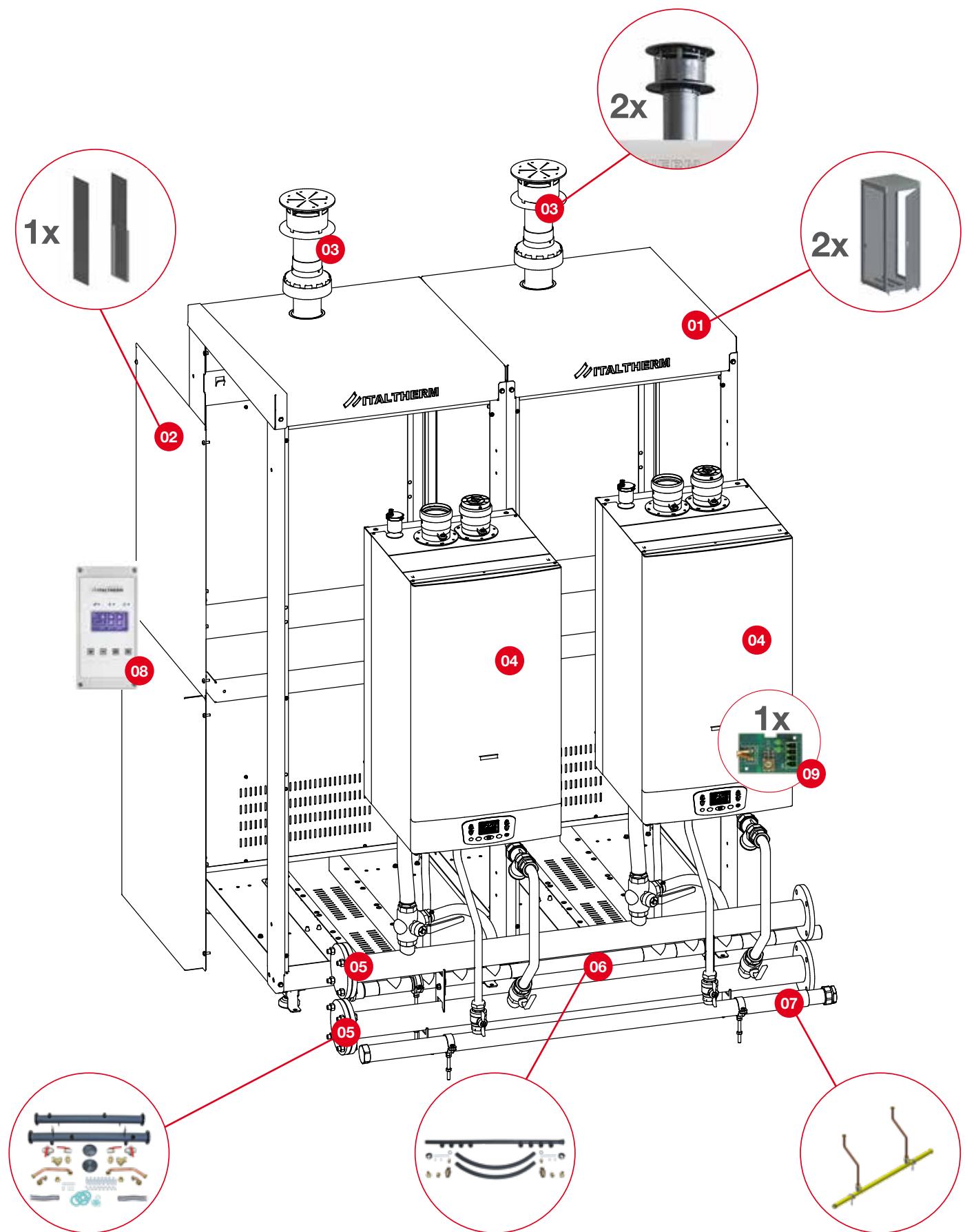
<b>Boilers Nr.</b>	<b>Plant power</b>	<b>Boilers combination</b>		<b>W x H<sup>1</sup> x D (mm)</b>	<b>Qn / Qmin (kW)</b>	<b>Ø flue (mm)</b>
	<b>95 kW</b>	50 K + 50 K	1:19		95/5	80
	<b>111 kW</b>	50 K + 70 K	1:22		110.5/5.0	80
	<b>126 kW</b>	70 K + 70 K	1:18		126/7	80
<b>2</b>	<b>170 kW</b>	90 K + 90 K	1:17		170/9.5	100
	<b>193 kW</b>	90 K + 115 K	1:20		193/9.5	100
	<b>216 kW</b>	115 K + 115 K	1:19		216/11	100
	<b>235 kW</b>	160 K + 90 K	1:24		235/9.5	100
	<b>258 kW</b>	160 K + 115 K	1:23		258/25	100
	<b>300 kW</b>	160 K + 160 K	1:12		300/25	100

## Configuration components

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

For "Hydraulic separator kit" see on page 136

## 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

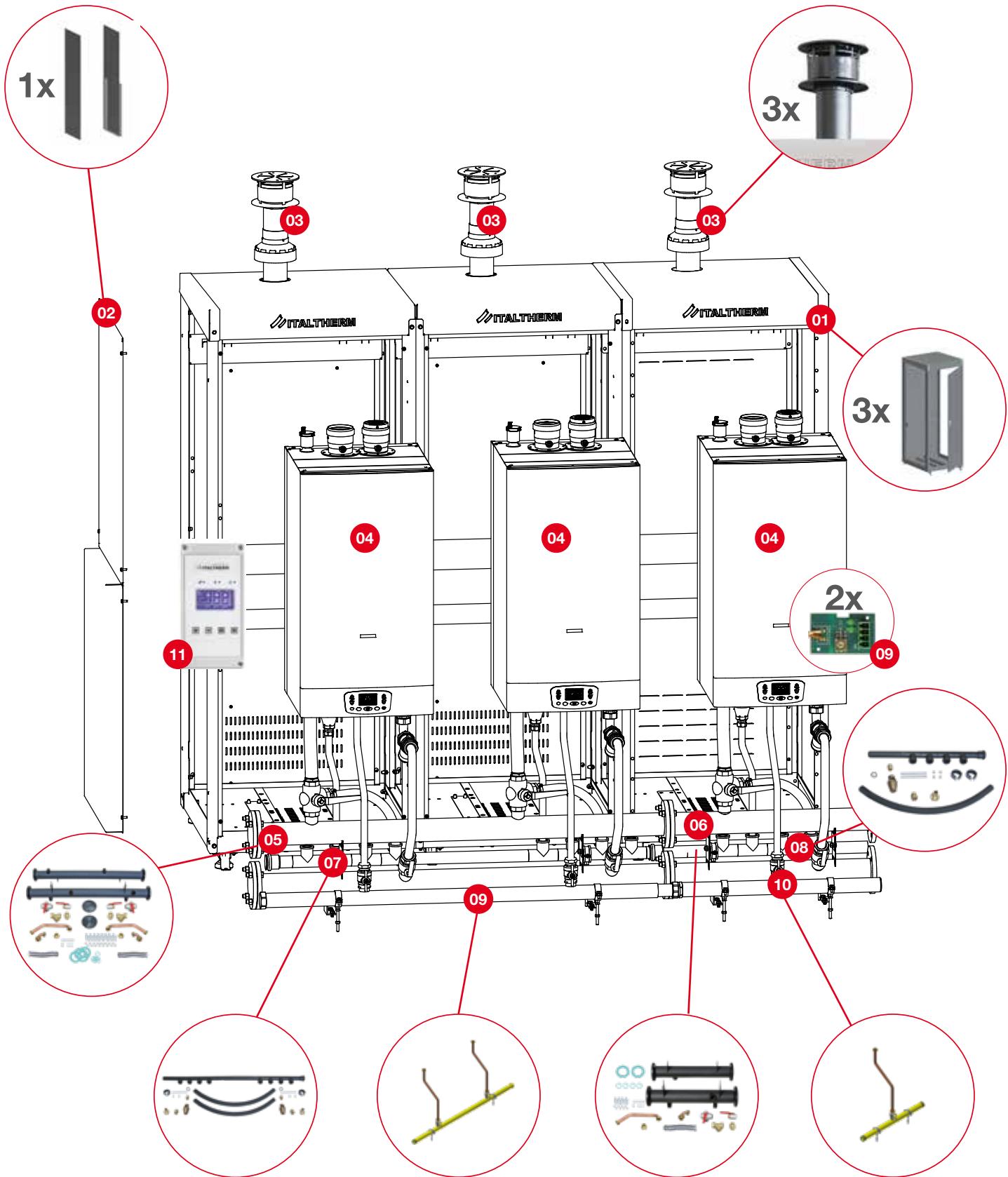
<b>Boilers Nr</b>	<b>Plant power</b>	<b>Boilers combination</b>		<b>W x H<sup>1</sup> x D (mm)</b>	<b>Qn / Qmin (kW)</b>	<b>Ø flue (mm)</b>
	<b>143 kW</b>	50 K + 50 K + 50 K	1:28		142.5/5	80
	<b>158 kW</b>	50 K + 50 K + 70 K	1:31		158/5	80
	<b>174 kW</b>	50 K + 70 K + 70 K	1:34		173.5/5	80
	<b>189 kW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

## Configuration components

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

For "Hydraulic separator kit" see on page 136

# 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)
190 kW	50 K + 50 K + 50 K + 50 K	1:38			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
<small><sup>1</sup>H without flue system</small>				2.802 x 1.925 x 810		

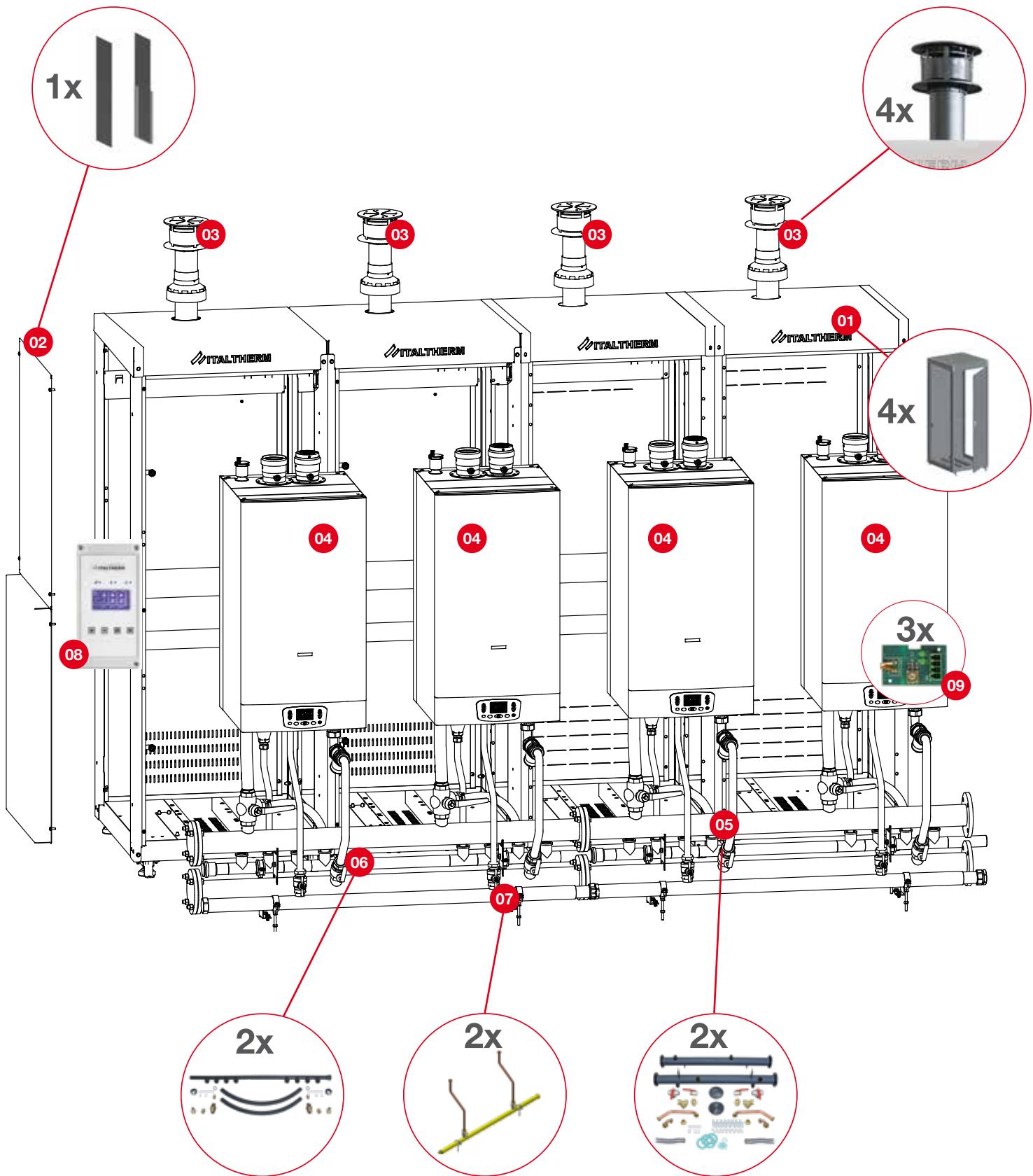
4

## Configuration components

01	Modular box	401150102	4
02	Panels kit	401150103	1
03	Flue system	Ø 80 mm 401003020 (mod. 50K-70K) 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 Cascade management controller spanish version	401150096 401150133	1
09	Interface PCB boiler -cascade controller	401150056	3

For "Hydraulic separator kit" see on page 136

# 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**



\*\*Accessories **NOT INCLUDED** in the configurations on pages 120-132

# **Hydraulic separator kit**



# 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 m<sup>3</sup>/h of residual capacity)  
max capacity 55 m<sup>3</sup>/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 120-132

# Hydraulic separator kit\*\* from 160 kW to 450 kW



<b>Plate heat exchanger up to 180 kW</b>	
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
<b>Plate heat exchanger up to 322 kW</b>	
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
<b>Plate heat exchanger up to 412 kW</b>	
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
<b>Plate heat exchanger up to 501 kW</b>	
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	



<b>Plate heat exchanger up to 180 kW + Modulating pump</b>	
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
<b>Plate heat exchanger up to 322 kW + Modulating pump</b>	
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
<b>Plate heat exchanger up to 412 kW + Modulating pump</b>	
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
<b>Plate heat exchanger up to 501 kW + Modulating pump</b>	
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 m<sup>3</sup>/h of residual capacity)  
max capacity 55 m<sup>3</sup>/h (with 3 m of residual prevalence)

\*\*Accessories NOT INCLUDED in the configurations on pages 120-132

# **Floor standing boilers**





- 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)	η30 at Qn (%)	Ø flue (mm)	Energy efficiency class
Time Power Floor 90 K		132.7	85 / 9.5	85	106.1	100	-
Time Power Floor 100 K*	555 x 1296	132.7	100 / 11	100	109.1	100	-
Time Power Floor 115 K	x 885	140.2	108 / 11	108	109.1	100	-
Time Power Floor 160 K		155	150 / 25.0	105.0	109.2	100	-

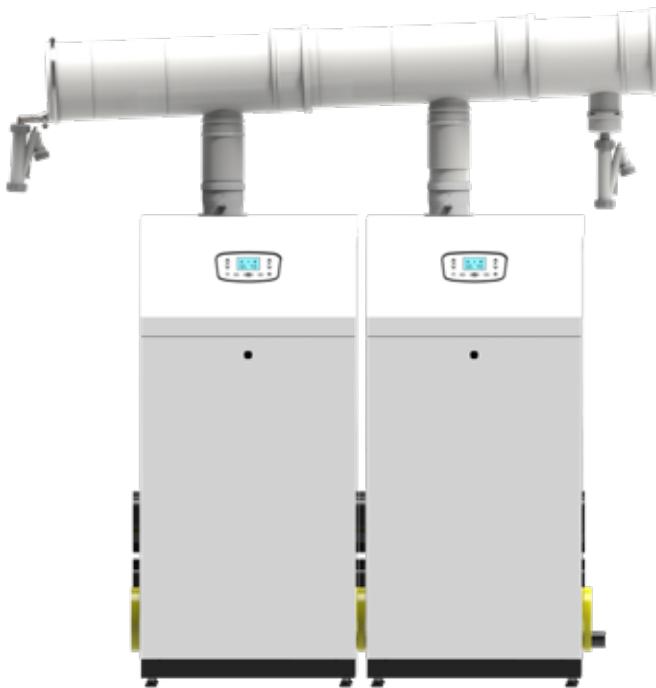
### Configuration components

Connection kit 1 boiler	401150161	necessary for single boiler configuration	1
Remote Control with climatic regulator	401080010		1
Italtherm Net App kit	401080018		1

\*for EXTRA EU markets ONLY



# 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 <sup>1</sup> x D (mm)	Qn / Qmin (kW)	Ø flue (mm)
2	170 kW	90 K + 90 K	1:17	1630x1690x885	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

<sup>1</sup>Height including flue system

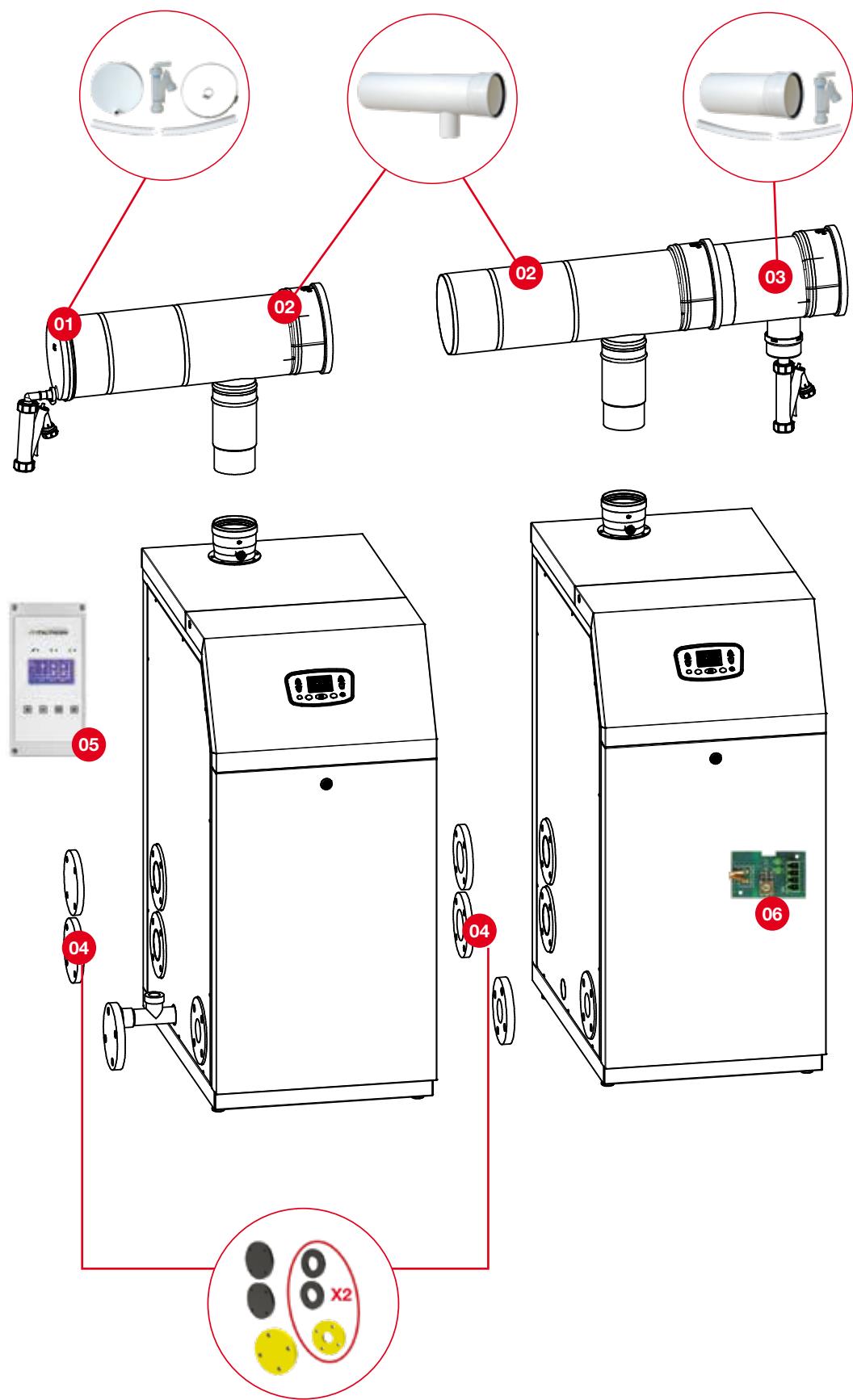
## Configuration components

04	Connection kit 2 boilers	401150162	1
05	Cascade management controller english version Cascade management controller spanish version	401150096 401150133	1
06	Interface PCB boiler cascade controller	401150056	1

## Flue system

01	Flue manifold plug kit with siphon	401007004 Ø 160 <270 kW 401007005 Ø 200 >270 kW	1 1
02	Flue manifold kit	401007025 Ø 160 <270 kW 401007026 Ø 200 >270 kW	2 2
03	Flue manifold kit with siphon	401007010 Ø 160 <270 kW 401007011 Ø 200 >270 kW	1 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

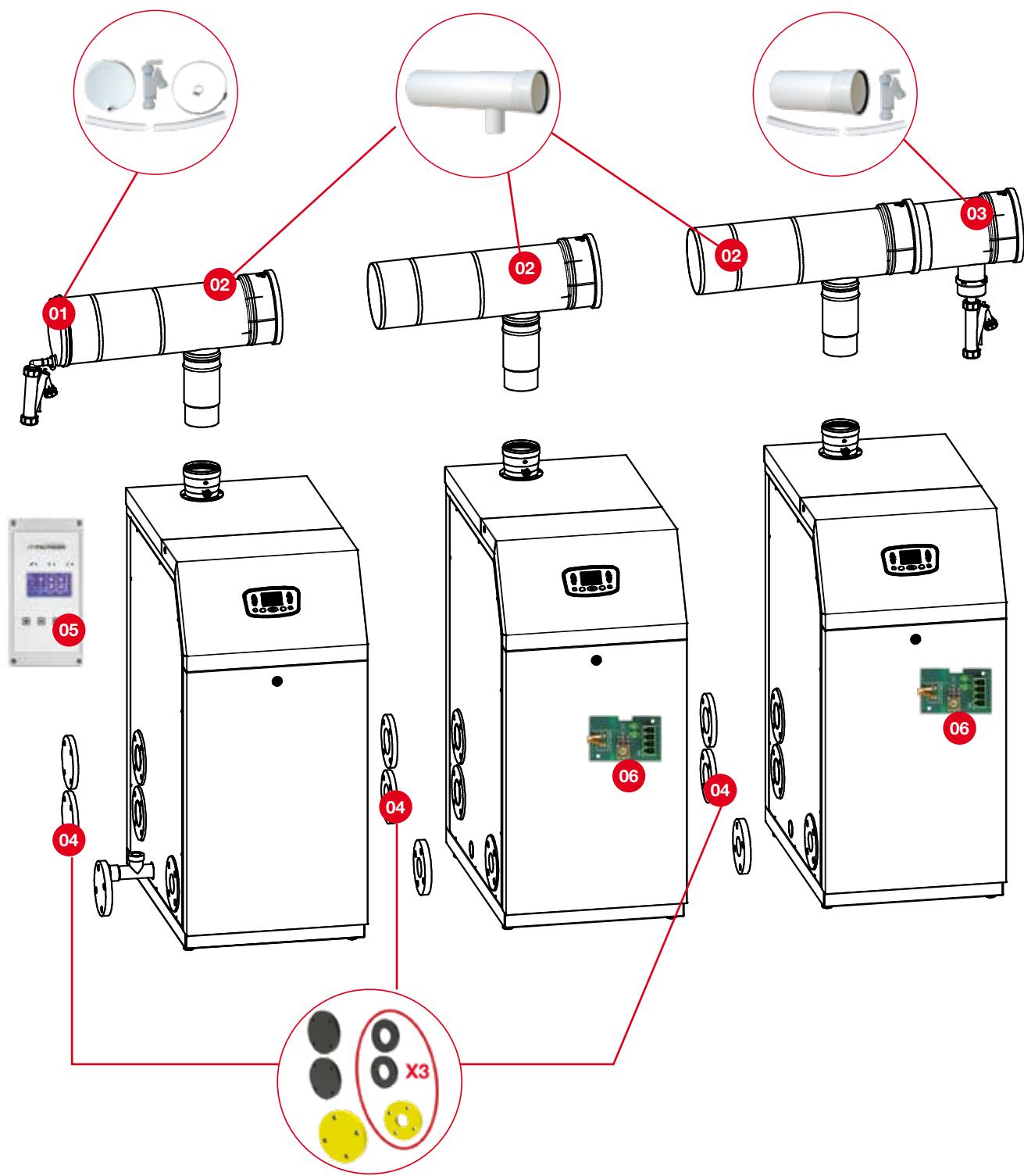
Floor Nr	Plant power	Boilers combination		W x H <sup>1</sup> x D (mm)	Qn / Qmin (kW)	Ø flue (mm)
3	255 kW	90 K + 90 K + 90 K	1:26	2214x1717x885	255/9.5	100 160
	278 kW	90 K + 90 K + 115 K	1:29		278/9.5	100 200
	301 kW	90 K + 115 K + 115 K	1:31		301/9.5	100 200
	320 kW	160 K + 90 K + 90 K	1:33		320/9.5	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

<sup>1</sup>Height including flue system

## Configuration components

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

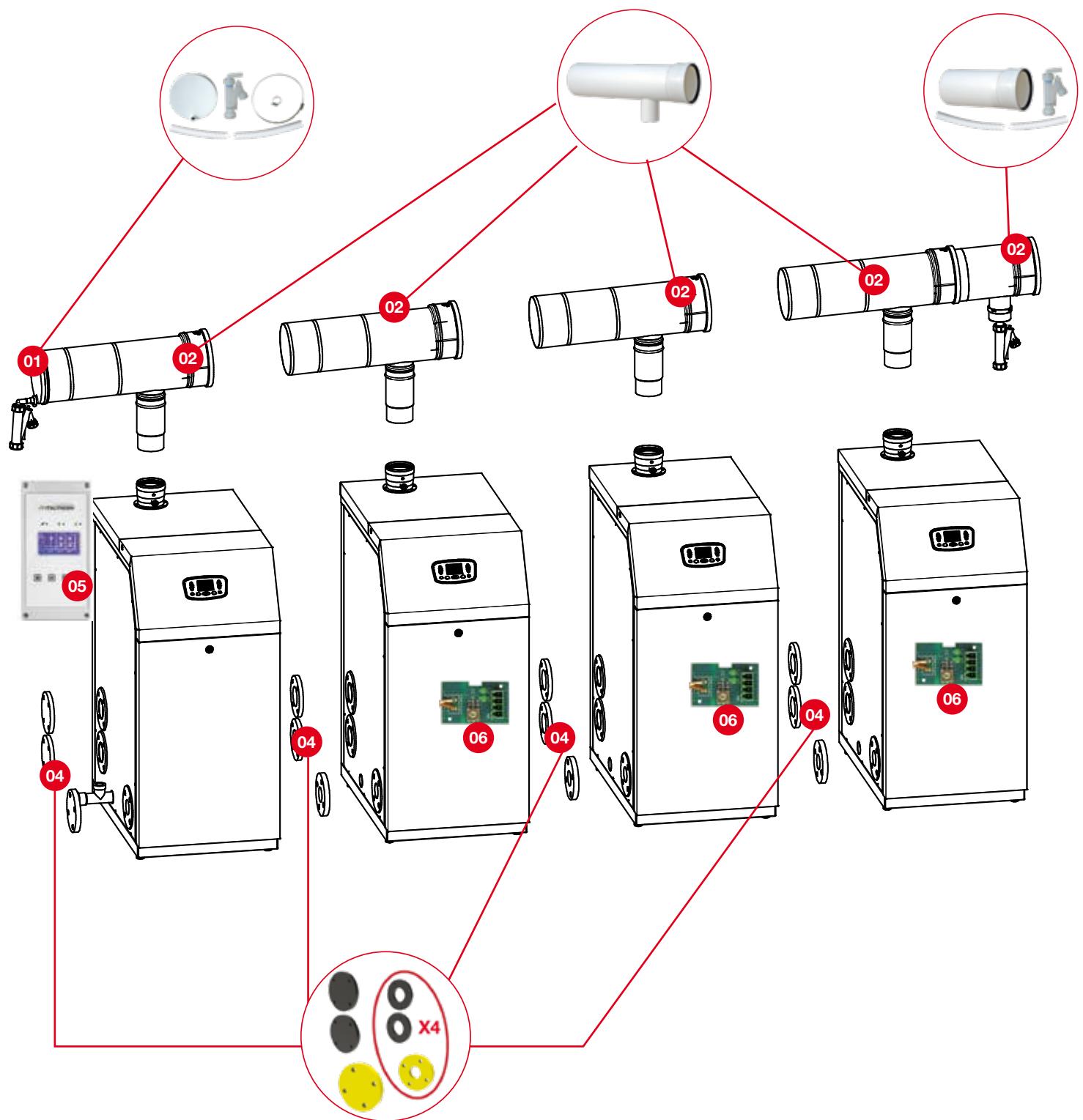
<b>Boilers Nr</b>	<b>Plant power</b>	<b>Boilers combination</b>		<b>W x H<sup>1</sup> x D (mm)</b>	<b>Qn / Qmin (kW)</b>	<b>Ø flue (mm)</b>
4	<b>340 kW</b>	90 K + 90 K + 90 K + 90 K	1:35	2780x1800x885	340/9.5	100 200
	<b>363 kW</b>	90 K + 90 K + 90 K + 115 K	1:38		363/9.5	100 200
	<b>386 kW</b>	90 K + 90 K + 115 K + 115 K	1:40		386/9.5	100 200
	<b>405 kW</b>	160 K + 90 K + 90 K + 90 K	1:42		405/9.5	100 200
	<b>409 kW</b>	115 K + 115 K + 115 K + 90 K	1:43		409/9.5	100 200
	<b>428 kW</b>	160 K + 115 K + 90 K + 90 K	1:45		428/9.5	100 200
	<b>432 kW</b>	115 K + 115 K + 115 K + 115 K	1:39		432/11	100 200

<sup>1</sup>Height including flue system

## Configuration components

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

# 4 boilers cascade components



# Hydraulic separator kit with balancer\*\*



Balancer < 280 kW	Dimension (WxHxD)	
01 Balancer kit	680x1300x185	401150031
02 Balancer connection pipe kit		401150037
Balancer > 280 kW	Dimension (WxHxD)	
01 Balancer kit	740x1470x250	401150048
02 Balancer connection pipe kit		401150049



Balancer+sludge remover-deaerator < 280 kW	Dimension (WxHxD)	
01 Balancer kit		401150031
02 Balancer connection pipe kit	1030x1300x185	401150037
03 Sludge remover-deaerator		401150018
Balancer+sludge remover-deaerator > 280 kW	Dimension (WxHxD)	
01 Balancer kit		401150048
02 Balancer connection pipe kit	1210x1470x250	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 echanger 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\*\*

---

401150180

**Condensate neutralisation tank up to 1.5  
MW**



401150181

**Condensate neutralisation tank + pump  
up to 1.5 MW**

401150182

**Condensate neutralisation granulate kit  
up to 1.5 MW**

## 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**



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

# Flue system for cascade configuration\*\*

< 270 kW > 270 kW

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

\*\*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

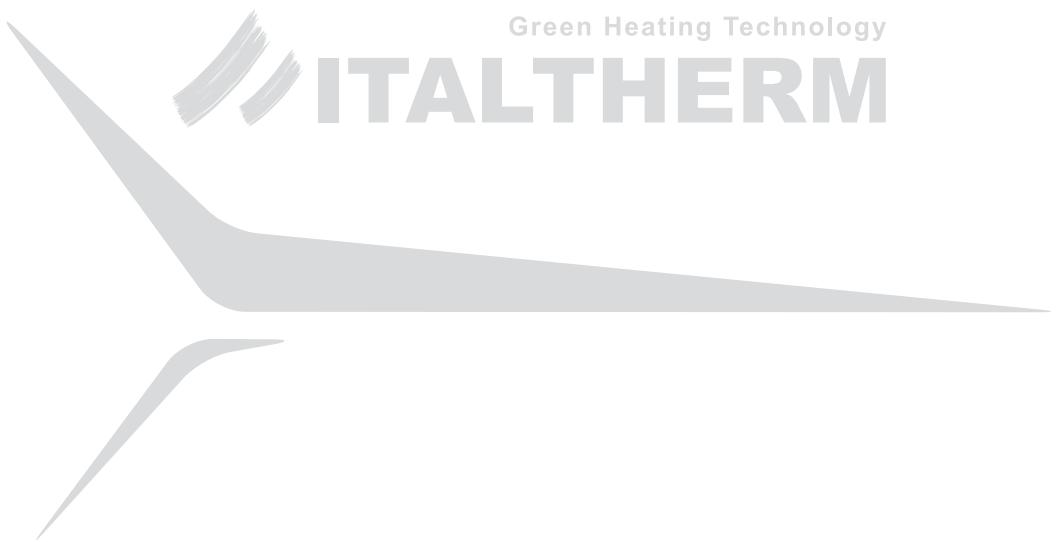


401000009  
Sloped roof tile kit



401000010  
Plain roof tile kit







[en.italtherm.it](http://en.italtherm.it)