CERTIFICATE

Number	KIP-17463	**Replaces**	KIP-17308/G
Issue date	20-11-2023	**Contract number**	I 0220
Due date	19-11-2033	**Scope**	(EU) 2016/426 (9 March 2016)
Report number	2001134/10	**Module**	B (Type testing)
PIN	0476CS1134		

EU TYPE-EXAMINATION CERTIFICATE (GAR)

Kiwa Cermet Italia declares that the central heating condensing boiler, type(s):

City Class 25 K, City Class 25 KR, City Class 25 KP, City Class 30 K, City Class 30 KR, City Class 30 KP, City Class 35 K, City Class 35 KR, City Class 35 KP, City Box 25 K, City Box 35 K, City Open 25 K, City Open 35 K, City TOP 25 K, City TOP 35 K, CITY TOP H 35 K, CITY TOP H 25 K, TOP HYBRID 25K, TOP HYBRID 25K BOX, TOP HYBRID PLUS 25K, TOP HYBRID PLUS 25K BOX, TOP HYBRID 35K, TOP HYBRID 35K BOX, TOP HYBRID PLUS 35K, TOP HYBRID PLUS 35K BOX, City Class H 15 K, City Class H 15 KR, City Class H 15 KP, City Class H 25 K, City Class H 25 KR, City Class H 25 KP, City Class H 30 K, City Class H 30 KR, City Class H 30 KP, City Class H 35 K, City Class H 35 KR, City Class H 35 KP, City Box H 25 K, City Box H 30 K, City Box H 35 K, City Open H 25 K, City Open H 30 K, City Open H 35 K

Manufacturer

ITALTHERM S.p.A.
Via Salvo d'Acquisto,
29010 Pontenure (PC), Italy

Meet the essential requirements as described in the
Regulation (EU) 2016/426 relating to appliances burning gaseous fuels.

Reference standard: EN 15502-1:2021+AC:2022 and EN 15502-2-1:2022

This certificate is only valid in combination with the appendix to this certificate, where specific information and/or conditions are given.

President
Giampiero Belcredi

Kiwa Cermet Italia S.p.A.
Società con socio unico, soggetta all'attività di direzione e coordinamento di Kiwa Italia Holding Srl
Via Cadriano, 23
40057 Granarolo dell'Emilia (BO)
Unità locale
Via Treviso 32/34
31020 San Vendemiano (TV)
Tel +39. 0438 411755
Fax +39.0438 22428
E-mail: info@kiwacermet.it
www.kiwa.it

Organismo Notificato n. 0476
Notified Body nr. 0476

ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

PRD N° 0069PRD

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

Number	KIP-17463	**Page**	1 of 2
Issue date	20-11-2023	**Scope**	(EU) 2016/426 (9 March 2016)
Due date	19-11-2033	**Module**	B (Type testing)
Report number	2001134/10		
PIN	0476CS1134		

APPENDIX TO EU TYPE-EXAMINATION CERTIFICATE (GAR)

Brand name: **ITALTHERM**

Types:

Model name	Heat Input (Hi)	
	CH Max – Min (kW)	DHW Max – Min (kW)
City Class 25 K	20,0 – 2,5	25,0 – 2,5
City Class 25 KP	20,0 – 2,5	25,0 – 2,5
City Class 25 KR	20,0 – 2,5	25,0 – 2,5
City Box 25 K	20,0 – 2,5	25,0 – 2,5
City Open 25 K	20,0 – 2,5	25,0 – 2,5
City Class 30 K	24,0 - 3,0	30,0 – 3,0
City Class 30 KP	24,0 - 3,0	30,0 – 3,0
City Class 30 KR	24,0 - 3,0	30,0 – 3,0
City Class 35 K	28,0 – 3,5	33,2 – 3,5
City Class 35 KP	28,0 – 3,5	33,2 – 3,5
City Class 35 KR	28,0 – 3,5	33,2 – 3,5
City Box 35 K	28,0 – 3,5	33,2 – 3,5
City Open 35 K	28,0 – 3,5	33,2 – 3,5
City TOP 25 K	25,0 – 1,6	25,0 – 1,6
CITY TOP H 25 K	25,0 – 1,6	25,0 – 1,6
TOP HYBRID 25K	25,0 – 1,6	25,0 – 1,6
TOP HYBRID 25K BOX	25,0 – 1,6	25,0 – 1,6
TOP HYBRID PLUS 25K	25,0 – 1,6	25,0 – 1,6
TOP HYBRID PLUS 25K BOX	25,0 – 1,6	25,0 – 1,6
City TOP 35 K	33,0 – 1,6	34,9 – 1,6
CITY TOP H 35 K	33,0 – 1,6	34,9 – 1,6
TOP HYBRID 35K	33,0 – 1,6	34,9 – 1,6
TOP HYBRID 35K BOX	33,0 – 1,6	34,9 – 1,6
TOP HYBRID PLUS 35K	33,0 – 1,6	34,9 – 1,6
TOP HYBRID PLUS 35K BOX	33,0 – 1,6	34,9 – 1,6
City Class H 15 K	15,0 – 2,6	30,0 – 2,6
City Class H 15 KP	15,0 – 2,6	30,0 – 2,6
City Class H 15 KR	15,0 – 2,6	30,0 – 2,6
City Class H 25 K	21,0 – 2,6	25,0 – 2,6
City Class H 25 KP	21,0 – 2,6	25,0 – 2,6
City Class H 25 KR	21,0 – 2,6	25,0 – 2,6
City Box H 25 K	21,0 – 2,6	25,0 – 2,6
City Open H 25 K	21,0 – 2,6	25,0 – 2,6
City Class H 30 K	25,0 – 2,6	30,0 – 2,6
City Class H 30 KP	25,0 – 2,6	30,0 – 2,6
City Class H 30 KR	25,0 – 2,6	30,0 – 2,6
City Box H 30 K	25,0 – 2,6	30,0 – 2,6
City Open H 30 K	25,0 – 2,6	30,0 – 2,6
City Class H 35 K	28,0 – 3,5	33,2 – 3,5
City Class H 35 KP	28,0 – 3,5	33,2 – 3,5
City Class H 35 KR	28,0 – 3,5	33,2 – 3,5
City Box H 35 K	28,0 – 3,5	33,2 – 3,5
City Open H 35 K	28,0 – 3,5	33,2 – 3,5

Appliance types:

B_{23}, B_{23P}, B_{53}, B_{53P}, C_{13}, C_{33}, C_{43}, C_{53}, C_{63}, C_{83}, C_{93}

Number	KIP-17463	**Page**	2 of 2
Issue date	20-11-2023	**Scope**	(EU) 2016/426 (9 March 2016)
Due date	19-11-2033	**Module**	B (Type testing)
Report number	2001134/10		
PIN	0476CS1134		

APPENDIX TO EU TYPE-EXAMINATION CERTIFICATE (GAR)

Countries:
AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MK, MT, NO, NL, PL, PT, RO, SE, SI, SK, TR

Models
City Class 25 K, City Class 25 KR, City Class 25 KP, City Class 30 K, City Class 30 KR, City Class 30 KP,
City Class 35 K, City Class 35 KR, City Class 35 KP, City Box 25 K, City Box 35 K, City Open 25 K, City Open 35 K,
City TOP 25 K, City TOP 35 K
Gas groups:

Group	mbar
E	20
H	20;25
Esi	20/25

Group	mbar
E(S)	20
Er	20/25

Group	mbar
M	20
P	30; 37; 50

Models
City Class H 15 K, City Class H 15 KR, City Class H 15 KP, City Class H 25 K, City Class H 25 KR, City Class H 25 KP,
City Class H 30 K, City Class H 30 KR, City Class H 30 KP, City Class H 35 K, City Class H 35 KR, City Class H 35 KP,
City Box H 25 K, City Box H 30 K, City Box H 35 K, City Open H 25 K, City Open H 30 K, City Open H 35 K,
CITY TOP H 35 K, CITY TOP H 25 K, TOP HYBRID 25K, TOP HYBRID 25K BOX, TOP HYBRID PLUS 25K,
TOP HYBRID PLUS 25K BOX, TOP HYBRID 35K, TOP HYBRID 35K BOX, TOP HYBRID PLUS 35K,
TOP HYBRID PLUS 35K BOX
Gas groups:

Group	mbar
E	20
H	20;25
Esi	20/25

Group	mbar
E(S)	20
Er	20/25
EY20	20

Group	mbar
M	20
P	30; 37; 50
HY20	20;25

The above gas groups can be combined according to the standard EN437:2021 and national situation of countries.

Remarks:
Suffix "Y20" means that the appliances are suitable for the use of natural gas of the indicated gas group, mixed with hydrogen resulting in a gas mixture containing up to 20% of Hydrogen gas (H2) when the appliance is set for the reference gas G20.

CERTIFICATE

Number	KIP-17464	**Replaces**	KIP-17308/E
Issue date	20-11-2023	**Contract number**	I 0220
Report number	2001134/10	**Scope**	Art.4 of No.813/2013 (2-8-2013) and 92/42/EEC (21-05-1992)
PIN	0476CS1134	**Module**	B (Type testing)

EC TYPE-EXAMINATION CERTIFICATE (BED/R813)

Kiwa Cermet Italia, notified body for council Directive 92/42/EC, hereby declares that the central heating condensing boiler, type(s):
City Class 25 K, City Class 25 KR, City Class 25 KP, City Class 30 K, City Class 30 KR, City Class 30 KP, City Class 35 K, City Class 35 KR, City Class 35 KP, City Box 25 K, City Box 35 K, City Open 25 K, City Open 35 K, City TOP 25 K, City TOP 35 K,
CITY TOP H 35 K, CITY TOP H 25 K, TOP HYBRID 25K, TOP HYBRID 25K BOX,
TOP HYBRID PLUS 25K, TOP HYBRID PLUS 25K BOX, TOP HYBRID 35K,
TOP HYBRID 35K BOX, TOP HYBRID PLUS 35K, TOP HYBRID PLUS 35K BOX,
City Class H 15 K, City Class H 15 KR, City Class H 15 KP, City Class H 25 K,
City Class H 25 KR, City Class H 25 KP, City Class H 30 K, City Class H 30 KR,
City Class H 30 KP, City Class H 35 K, City Class H 35 KR, City Class H 35 KP,
City Box H 25 K, City Box H 30 K, City Box H 35 K, City Open H 25 K,
City Open H 30 K, City Open H 35 K

Manufacturer

ITALTHERM S.p.A.
Via Salvo d'Acquisto,
29010 Pontenure (PC), Italy

meet the requirements regarding useful efficiencies according **to article 4 of commission regulation (EU) No. 813/2013** and as described in the **Directive 92/42/EEC on efficiency requirements**.

Reference standard: EN 15502-1:2021+AC:2022 and EN 15502-2-1:2022

This certificate is only valid in combination with the appendix to this certificate, where specific information and/or conditions are given.

President
Giampiero Belcredi

Kiwa Cermet Italia S.p.A.
Società con socio unico, soggetta all'attività di direzione e coordinamento di Kiwa Italia Holding Srl
Via Cadriano, 23
40057 Granarolo dell'Emilia (BO)
Unità locale
Via Treviso 32/34
31020 San Vendemiano (TV)
Tel +39. 0438 411755
Fax +39.0438 22428
E-mail: info@kiwacermet.it
www.kiwa.it

Organismo Notificato n. 0476
Notified Body nr. 0476

ACCREDIA L'ENTE ITALIANO DI ACCREDITAMENTO

PRD N° 0069PRD

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements

Number	KIP-17464	**Page**	1 of 11
Issue date	20-11-2023	**Scope**	Art.4 of No.813/2013 (2-8-2013) and 92/42/EEC (21-05-1992)
Report number	2001134/10	**Module**	B (Type testing)
PIN	0476CS1134		

APPENDIX TO EU TYPE-EXAMINATION CERTIFICATE (BED/R813)

Brand name:
ITALTHERM

Specifications:
Models:
City Class 25 K, City Class 25 KP, City Box 25 K, City Open 25 K, City Class 25 KR

Condensing boiler:	yes
Range rated:	yes
Low-temperature boiler:	no
B1 boiler:	no
Combination heater:	yes (mod. City Class 25 K, City Class 25 KP, City Box 25 K, City Open 25 K) (1) no (mod. City Class 25 KR)

(1) The boiler can be connected to an external tank for domestic hot water production

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P_4	19,4	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	6,4	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η_4	86,5	%
At 30 % of rated heat output and low-temperature regime (**)	η_1	95,8	%
Useful efficiencies (NCV)			
At rated heat output and high-temperature regime (*)	η_{100}	96,1	%
At 30 % of rated heat output and low-temperature regime (**)	η_{30}	106,4	%

(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) Low temperature means for condensing boilers 30 °C, for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).

(GCV) Calculated values are based on Gross calorific value (reference conditions:15 °C, 1013,25 mbar)

(NCV) Calculated values are based on Net calorific value (reference conditions:15 °C, 1013,25 mbar)

APPENDIX TO EU TYPE-EXAMINATION CERTIFICATE (BED/R813)

Brand name:
ITALTHERM

Specifications:
Models:
City Class 30 K, City Class 30 KP, City Class 30 KR

Condensing boiler:	yes
Range rated:	yes
Low-temperature boiler:	no
B1 boiler:	no
Combination heater:	yes (mod. City Class 30 K, City Class 30 KP) (1) no (mod. City Class 30 KR)

(1) The boiler can be connected to an external tank for domestic hot water production

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P_4	23,3	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	7,7	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η_4	86,5	%
At 30 % of rated heat output and low-temperature regime (**)	η_1	95,5	%
Useful efficiencies (NCV)			
At rated heat output and high-temperature regime (*)	η_{100}	96,0	%
At 30 % of rated heat output and low-temperature regime (**)	η_{30}	106,0	%

(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) Low temperature means for condensing boilers 30 °C, for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).

(GCV) Calculated values are based on Gross calorific value (reference conditions:15 °C, 1013,25 mbar)

(NCV) Calculated values are based on Net calorific value (reference conditions:15 °C, 1013,25 mbar)

APPENDIX TO EU TYPE-EXAMINATION CERTIFICATE (BED/R813)

Brand name:
ITALTHERM

Specifications:
Models:
City Class 35 K, City Class 35 KP, City Class 35 KR, City Box 35 K, City Open 35 K

Condensing boiler:	yes
Range rated:	yes
Low-temperature boiler:	no
B1 boiler:	no
Combination heater:	yes (mod. City Class 35 K, City Class 35 KP, City Box 35 K, City Open 35 K) (1) no (mod. City Class 35 KR)

(1) The boiler can be connected to an external tank for domestic hot water production

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P_4	27,4	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	9,1	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η_4	86,6	%
At 30 % of rated heat output and low-temperature regime (**)	η_1	96,1	%
Useful efficiencies (NCV)			
At rated heat output and high-temperature regime (*)	η_{100}	96,2	%
At 30 % of rated heat output and low-temperature regime (**)	η_{30}	106,7	%

(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) Low temperature means for condensing boilers 30 °C, for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).

(GCV) Calculated values are based on Gross calorific value (reference conditions:15 °C, 1013,25 mbar)

(NCV) Calculated values are based on Net calorific value (reference conditions:15 °C, 1013,25 mbar)

Number	KIP-17464	**Page**	4 of 11
Issue date	20-11-2023	**Scope**	Art.4 of No.813/2013 (2-8-2013) and 92/42/EEC (21-05-1992)
Report number	2001134/10	**Module**	B (Type testing)
PIN	0476CS1134		

APPENDIX TO EU TYPE-EXAMINATION CERTIFICATE (BED/R813)

Specifications:

Models:
City TOP 25 K

Brand name:
ITALTHERM

Condensing boiler:	yes
Range rated:	yes
Low-temperature boiler:	no
B1 boiler:	no
Combination heater:	yes

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P_4	24,1	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	8,0	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η_4	86,6	%
At 30 % of rated heat output and low-temperature regime (**)	η_1	94,8	%
Useful efficiencies (NCV)			
At rated heat output and high-temperature regime (*)	η_{100}	96,2	%
At 30 % of rated heat output and low-temperature regime (**)	η_{30}	105,3	%

(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) Low temperature means for condensing boilers 30 °C, for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).

(GCV) Calculated values are based on Gross calorific value (reference conditions:15 °C, 1013,25 mbar)

(NCV) Calculated values are based on Net calorific value (reference conditions:15 °C, 1013,25 mbar)

APPENDIX TO EU TYPE-EXAMINATION CERTIFICATE (BED/R813)

Specifications:

Models:
City TOP H 25 K, TOP HYBRID 25K, TOP HYBRID 25K BOX, TOP HYBRID PLUS 25K, TOP HYBRID PLUS 25K BOX

Brand name:
ITALTHERM

Condensing boiler:	yes
Range rated:	yes
Low-temperature boiler:	no
B1 boiler:	no
Combination heater:	yes

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P_4	24,2	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	8,1	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η_4	87,3	%
At 30 % of rated heat output and low-temperature regime (**)	η_1	96,9	%
Useful efficiencies (NCV)			
At rated heat output and high-temperature regime (*)	η_{100}	97,0	%
At 30 % of rated heat output and low-temperature regime (**)	η_{30}	107,6	%

(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) Low temperature means for condensing boilers 30 °C, for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).

(GCV) Calculated values are based on Gross calorific value (reference conditions:15 °C, 1013,25 mbar)

(NCV) Calculated values are based on Net calorific value (reference conditions:15 °C, 1013,25 mbar)

APPENDIX TO EU TYPE-EXAMINATION CERTIFICATE (BED/R813)

Brand name:
ITALTHERM

Specifications:
Models:
City TOP 35 K

Condensing boiler:	yes
Range rated:	yes
Low-temperature boiler:	no
B1 boiler:	no
Combination heater:	yes

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P_4	32,2	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	10,6	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η_4	87,5	%
At 30 % of rated heat output and low-temperature regime (**)	η_1	95,1	%
Useful efficiencies (NCV)			
At rated heat output and high-temperature regime (*)	η_{100}	97,1	%
At 30 % of rated heat output and low-temperature regime (**)	η_{30}	105,6	%

(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) Low temperature means for condensing boilers 30 °C, for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).

(GCV) Calculated values are based on Gross calorific value (reference conditions:15 °C, 1013,25 mbar)

(NCV) Calculated values are based on Net calorific value (reference conditions:15 °C, 1013,25 mbar)

APPENDIX TO EU TYPE-EXAMINATION CERTIFICATE (BED/R813)

Brand name:
ITALTHERM

Specifications:

Models:
City TOP H 35 K, TOP HYBRID 35K, TOP HYBRID 35K BOX, TOP HYBRID PLUS 35K, TOP HYBRID PLUS 35K BOX

Condensing boiler:	yes
Range rated:	yes
Low-temperature boiler:	no
B1 boiler:	no
Combination heater:	yes

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P_4	31,9	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	10,6	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η_4	87,2	%
At 30 % of rated heat output and low-temperature regime (**)	η_1	96,8	%
Useful efficiencies (NCV)			
At rated heat output and high-temperature regime (*)	η_{100}	96,8	%
At 30 % of rated heat output and low-temperature regime (**)	η_{30}	107,5	%

(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) Low temperature means for condensing boilers 30 °C, for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).

(GCV) Calculated values are based on Gross calorific value (reference conditions:15 °C, 1013,25 mbar)

(NCV) Calculated values are based on Net calorific value (reference conditions:15 °C, 1013,25 mbar)

APPENDIX TO EU TYPE-EXAMINATION CERTIFICATE (BED/R813)

Brand name:
ITALTHERM

Specifications:
Models:
City Class H 15 K, City Class H 15 KP, City Class H 15 KR

Condensing boiler:	yes
Range rated:	yes
Low-temperature boiler:	no
B1 boiler:	no
Combination heater:	yes (mod. City Class H 15 K, City Class H 15 KP) (1) no (mod. City Class H 15 KR)

(1) The boiler can be connected to an external tank for domestic hot water production

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P_4	14,4	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	4,8	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η_4	85,7	%
At 30 % of rated heat output and low-temperature regime (**)	η_1	94,9	%
Useful efficiencies (NCV)			
At rated heat output and high-temperature regime (*)	η_{100}	95,2	%
At 30 % of rated heat output and low-temperature regime (**)	η_{30}	105,4	%

(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) Low temperature means for condensing boilers 30 °C, for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).

(GCV) Calculated values are based on Gross calorific value (reference conditions:15 °C, 1013,25 mbar)

(NCV) Calculated values are based on Net calorific value (reference conditions:15 °C, 1013,25 mbar)

APPENDIX TO EU TYPE-EXAMINATION CERTIFICATE (BED/R813)

Brand name:
ITALTHERM

Specifications:
Models:
City Class H 25 K, City Class H 25 KP, City Class H 25 KR, City Box H 25 K, City Open H 25 K

Condensing boiler:	yes
Range rated:	yes
Low-temperature boiler:	no
B1 boiler:	no
Combination heater:	yes (mod. City Class H 25 K, City Class H 25 KP, City Box H 25 K, City Open H 25 K) (1) no (mod. City Class H 25 KR)

(1) The boiler can be connected to an external tank for domestic hot water production

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P_4	20,3	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	6,7	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η_4	86,4	%
At 30 % of rated heat output and low-temperature regime (**)	η_1	95,6	%
Useful efficiencies (NCV)			
At rated heat output and high-temperature regime (*)	η_{100}	95,9	%
At 30 % of rated heat output and low-temperature regime (**)	η_{30}	106,2	%

(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) Low temperature means for condensing boilers 30 °C, for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).

(GCV) Calculated values are based on Gross calorific value (reference conditions:15 °C, 1013,25 mbar)

(NCV) Calculated values are based on Net calorific value (reference conditions:15 °C, 1013,25 mbar)

APPENDIX TO EU TYPE-EXAMINATION CERTIFICATE (BED/R813)

Brand name:
ITALTHERM

Specifications:
Models:
City Class H 30 K, City Class H 30 KP, City Class H 30 KR, City Box H 30 K, City Open H 30 K

Condensing boiler:	yes
Range rated:	yes
Low-temperature boiler:	no
B1 boiler:	no
Combination heater:	yes (mod. City Class H 30 K, City Class H 30 KP, City Box H 30 K, City Open H 30 K) (1) no (mod. City Class H 30 KR)

(1) The boiler can be connected to an external tank for domestic hot water production

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P_4	24,3	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	8,0	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η_4	86,7	%
At 30 % of rated heat output and low-temperature regime (**)	η_1	95,4	%
Useful efficiencies (NCV)			
At rated heat output and high-temperature regime (*)	η_{100}	96,3	%
At 30 % of rated heat output and low-temperature regime (**)	η_{30}	105,9	%

(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) Low temperature means for condensing boilers 30 °C, for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).

(GCV) Calculated values are based on Gross calorific value (reference conditions:15 °C, 1013,25 mbar)

(NCV) Calculated values are based on Net calorific value (reference conditions:15 °C, 1013,25 mbar)

APPENDIX TO EU TYPE-EXAMINATION CERTIFICATE (BED/R813)

Brand name:
ITALTHERM

Specifications:
Models:
City Class H 35 K, City Class H 35 KP, City Class H 35 KR, City Box H 35 K, City Open H 35 K

Condensing boiler:	yes
Range rated:	yes
Low-temperature boiler:	no
B1 boiler:	no
Combination heater:	yes (mod. City Class H 35 K, City Class H 35 KP, City Box H 35 K, City Open H 35 K) (1) no (mod. City Class H 35 KR)

(1) The boiler can be connected to an external tank for domestic hot water production

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P_4	26,3	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	9,0	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η_4	85,7	%
At 30 % of rated heat output and low-temperature regime (**)	η_1	96,3	%
Useful efficiencies (NCV)			
At rated heat output and high-temperature regime (*)	η_{100}	95,2	%
At 30 % of rated heat output and low-temperature regime (**)	η_{30}	106,9	%

(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.

(**) Low temperature means for condensing boilers 30 °C, for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).

(GCV) Calculated values are based on Gross calorific value (reference conditions:15 °C, 1013,25 mbar)

(NCV) Calculated values are based on Net calorific value (reference conditions:15 °C, 1013,25 mbar)