



Number	KIP-07602	Replaces	KIP-15093/E
Issue date	14-05-2024	Contract number	7230
Report number	150600982/5	Scope	Art.4 of No.813/2013 (2-8-2013) and 92/42/EEC (21-05-1992)
PIN	0476CQ0982	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 boiler bodies, type(s):

**RTQ 35 3S, RTQ 55 3S, RTQ 70 3S, RTQ 91 3S, RTQ 90 3S, RTQ 90 3S S,
RTQ 115 3S, RTQ 115 3S S, RTQ 166 3S, RTQ 166 3S S, RTQ 217 3S,
RTQ 217 3S S, RTQ 255 3S, RTQ 255 3S S, RTQ 318 3S, RTQ 318 3S S,
RTQ 349 3S, RTQ 349 3S S, RTQ 384 3S, RTQ 384 3S S**

Manufacturer

Riello S.p.a.
Via Ing. Pilade Riello, 7
37045, Legnago (VR), 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 303-1:2017

EN 303-2:2017

EN 303-3:1998, EN 303-3/A2:2004, EN 303-3/AC:2006

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

CERTIFICATE

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

Industry Division Manager

Maurizio Lorenzon



PRD N° 0069PRD

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

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

Brand name:
RIELLO

Specifications:

Model(s):
RTQ 35 3S

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

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P ₄	32,8	kW
At 30 % of rated heat output and low-temperature regime (**)	P ₁	n.t.	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η ₄	87,1	%
At 30 % of rated heat output and low-temperature regime (**)	η ₁	89,0	%
Useful efficiencies (NCV)			
At rated heat output and high-temperature regime (*)	η ₁₀₀	96,7	%
At 30 % of rated heat output and low-temperature regime (**)	η ₃₀	98,8	%

(*) 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)

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

Brand name:
RIELLO

Specifications:

Model(s):
RTQ 55 3S

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

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P ₄	51,6	kW
At 30 % of rated heat output and low-temperature regime (**)	P ₁	n.t.	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η ₄	85,6	%
At 30 % of rated heat output and low-temperature regime (**)	η ₁	88,7	%
Useful efficiencies (NCV)			
At rated heat output and high-temperature regime (*)	η ₁₀₀	95,1	%
At 30 % of rated heat output and low-temperature regime (**)	η ₃₀	98,5	%

(*) 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)

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

Brand name:
RIELLO

Specifications:

Model(s):
RTQ 70 3S

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

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P ₄	65,0	kW
At 30 % of rated heat output and low-temperature regime (**)	P ₁	n.t.	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η ₄	85,5	%
At 30 % of rated heat output and low-temperature regime (**)	η ₁	89,4	%
Useful efficiencies (NCV)			
At rated heat output and high-temperature regime (*)	η ₁₀₀	94,9	%
At 30 % of rated heat output and low-temperature regime (**)	η ₃₀	99,3	%

(*) 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)

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

Brand name:
RIELLO

Specifications:

Model(s):
RTQ 91 3S

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

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P ₄	84,8	kW
At 30 % of rated heat output and low-temperature regime (**)	P ₁	n.t.	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η_4	84,7	%
At 30 % of rated heat output and low-temperature regime (**)	η_1	89,3	%
Useful efficiencies (NCV)			
At rated heat output and high-temperature regime (*)	η_{100}	94,1	%
At 30 % of rated heat output and low-temperature regime (**)	η_{30}	99,2	%

(*) 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)

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

Brand name:
RIELLO

Specifications:
Model(s):
RTQ 90 3S; RTQ 90 3S S

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

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P ₄	86,3	kW
At 30 % of rated heat output and low-temperature regime (**)	P ₁	n.t.	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	85,1	%
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	94,5	%

(*) 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)

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

Brand name:
RIELLO

Specifications:
Model(s):
RTQ 155 3S; RTQ 155 3S S

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

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P ₄	110,2	kW
At 30 % of rated heat output and low-temperature regime (**)	P ₁	n.t.	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	85,3	%
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	94,8	%

(*) 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)

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

Brand name:
RIELLO

Specifications:
Model(s):
RTQ 166 3S; RTQ 166 3S S

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

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P ₄	158,7	kW
At 30 % of rated heat output and low-temperature regime (**)	P ₁	n.t.	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η_4	86,3	%
At 30 % of rated heat output and low-temperature regime (**)	η_1	85,9	%
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}	95,4	%

(*) 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)

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

Brand name:
RIELLO

Specifications:
Model(s):
RTQ 217 3S; RTQ 217 3S S

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

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P ₄	206,8	kW
At 30 % of rated heat output and low-temperature regime (**)	P ₁	n.t.	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η_4	86,0	%
At 30 % of rated heat output and low-temperature regime (**)	η_1	86,4	%
Useful efficiencies (NCV)			
At rated heat output and high-temperature regime (*)	η_{100}	95,5	%
At 30 % of rated heat output and low-temperature regime (**)	η_{30}	96,0	%

(*) 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)

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

Brand name:
RIELLO

Specifications:

Model(s):
RTQ 255 3S; RTQ 255 3S S

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

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P ₄	243,0	kW
At 30 % of rated heat output and low-temperature regime (**)	P ₁	n.t.	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	86,5	%
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}	96,1	%

(*) 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)

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

Brand name:
RIELLO

Specifications:
Model(s):
RTQ 318 3S; RTQ 318 3S S

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

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P ₄	303,4	kW
At 30 % of rated heat output and low-temperature regime (**)	P ₁	n.t.	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η_4	87,1	%
At 30 % of rated heat output and low-temperature regime (**)	η_1	86,7	%
Useful efficiencies (NCV)			
At rated heat output and high-temperature regime (*)	η_{100}	96,7	%
At 30 % of rated heat output and low-temperature regime (**)	η_{30}	96,3	%

(*) 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)

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

Brand name:
RIELLO

Specifications:
Model(s):
RTQ 349 3S; RTQ 349 3S S

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

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P ₄	332,0	kW
At 30 % of rated heat output and low-temperature regime (**)	P ₁	n.t.	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η_4	87,6	%
At 30 % of rated heat output and low-temperature regime (**)	η_1	86,8	%
Useful efficiencies (NCV)			
At rated heat output and high-temperature regime (*)	η_{100}	97,3	%
At 30 % of rated heat output and low-temperature regime (**)	η_{30}	96,4	%

(*) 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)

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

Brand name:
RIELLO

Specifications:
Model(s):
RTQ 384 3S; RTQ 384 3S S

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

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P ₄	366,3	kW
At 30 % of rated heat output and low-temperature regime (**)	P ₁	n.t.	kW
Useful efficiencies (GCV)			
At rated heat output and high-temperature regime (*)	η ₄	88,0	%
At 30 % of rated heat output and low-temperature regime (**)	η ₁	86,9	%
Useful efficiencies (NCV)			
At rated heat output and high-temperature regime (*)	η ₁₀₀	97,8	%
At 30 % of rated heat output and low-temperature regime (**)	η ₃₀	96,5	%

- (*) 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)

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