

Number	92998/05	Replaces	92998/04
Issued	27-03-2017	Scope	2009/142/EC (30-11-2009)
Report number	160301775/5	Contract number	E 8090
PIN	0063CR3775		

EC TYPE EXAMINATION CERTIFICATE (GAD)

Kiwa hereby declares that the **Condensing Boilers**, types

VUW 196/7-2 (H-SEE) ecoTEC pure	VU 246/7-2 (H-INT II) ecoTEC pure
VUW 236/7-2 (H-INT II) ecoTEC pure	VMW 246/7-2 (H-II) ecoTEC pure
VMW 236/7-2 (H-ES) ecoTEC pure	VUW 286/7-2 (H-INT II) ecoTEC pure
VUW 236/7-2 (H-TR) S ecoTEC pure	VMW 286/7-2 (H-ES) ecoTEC pure
VUW 236/7-2 (H-TR) ecoTEC pure	VUW 286/7-2 (H-TR) ecoTEC pure
VCW 226/7-2 (E-BE) ecoTEC pure	VUW 286/7-2 (H-TR) S ecoTEC pure
VC 186/7-2 (E-BE) ecoTEC pure	VUW 246/7-2 (H-GB) ecoTEC sustain 24
VC 256/7-2 (E-BE) ecoTEC pure	VUW 246/7-2 (H-GB) ecoTEC pure24
VCW 286/7-2 (E-BE) ecoTEC pure	VUW 286/7-2 (H-GB) ecoTEC sustain 28
VC 226/7-2 (E-PL) ecoTEC pure	VUW 286/7-2 (H-GB) ecoTEC pure 28
VCW 226/7-2 (E-PL) ecoTEC pure	VUW 346/7-2 (H-GB) ecoTEC sustain 34
VHR 18-24/7-2 (K-NL) ecoTEC pure	VHR 18-24/7-2 (K-NL) EXP ecoTEC pure
VHR 23-28/7-2 (K-NL) ecoTEC pure	VHR 23-28/7-2 (K-NL) EXP ecoTEC pure
VHR 28-34/7-2 (K-NL) ecoTEC pure	VUW 236/7-2 (H-INT III) ecoTEC pure
VU 246/7-2 (H-INT III) ecoTEC pure	VUW 286/7-2 (H-INT III) ecoTEC pure

manufactured by

Vaillant GmbH
Remscheid, Germany

meet the essential requirements as described in the
Directive 2009/142/EC relating to appliances burning gaseous fuels.

Country of destination, appliance categories, installation types and available types are mentioned in the appendix to this certificate.

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GASTEC





Luc Leroy
Kiwa

kiwa
Approved

EC Directive



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Appendix no.: 1

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List of available types,

Type name ecoTEC pure	Appliance type	CH Heat input (kW - Hi)	DHW Heat input (kW - Hi)
VUW 196/7-2 (H-SEE)	C13(x), C33(x), C43(x), C53(x), C83(x), C93(x), B33, B53(P)* * Only for SI	6.8 – 19.1	6.8 - 24.5
VUW 236/7-2 (H-INT II)	C13, C33, C43(x), C53, C83, C93, B33, B53(P)	6.8 – 19.1	6.8 - 24.5
VUW 236/7-2 (H-TR)	C13, C33, C43(x), C53, C83, C93, B53	6.8 – 19.1	6.8 - 24.5
VUW 236/7-2 (H-TR) S	C13, C33, C43(x), C53, C83, C93, B53	6.8 – 19.1	6.8 - 24.5
VMW 236/7-2 (H-ES)	C13, C33, C43(x), C53, C83, B33, B53(P)	6.8 – 19.1	6.8 - 24.5
VU 246/7-2 (H-INT II)	C13, C33, C43(x), C53, C83, C93, B33, B53(P)	7.8 -24.8	7.8 -28.6
VMW 246/7-2 (H-IT)	C13, C33, C43(x), C53, C83, C93, B23, B53(P)	7.8 -24.8	7.8 -28.6
VUW 286/7-2 (H-INT II)	C13, C33, C43(x), C53, C83, C93, B33, B53(P)	7.8 -24.8	7.8 -28.6
VMW 286/7-2 (H-ES)	C13, C33, C43(x), C53, C83, B33, B53(P)	7.8 -24.8	7.8 -28.6
VUW 286/7-2 (H-TR)	C13, C33, C43(x), C53, C83, C93, B53	7.8 -24.8	7.8 -28.6
VUW 286/7-2 (H-TR) S	C13, C33, C43(x), C53, C83, C93, B53	7.8 -24.8	7.8 -28.6
VCW 226/7-2 (E-BE) ecoTEC pure	C13, C33, C43(x), C53, C83, C93, B23, B33, B53(P)	6.6 - 18.7	6.6 - 24.4
VC 186/7-2 (E-BE) ecoTEC pure	C13, C33, C43(x), C53, C83, C93, B23, B33, B53(P)	6.6 - 18.7	6.6 - 24.4
VC 256/7-2 (E-BE) ecoTEC pure	C13, C33, C43(x), C53, C83, C93, B23, B33, B53(P)	7.6 - 24.8	7.6 - 28.5
VCW 286/7-2 (E-BE) ecoTEC pure	C13, C33, C43(x), C53, C83, C93, B23, B33, B53(P)	7.6 - 24.8	7.6 - 28.5
VC 226/7-2 (E-PL) ecoTEC pure	C13, C33, C43(x), C53, C83, C93, B23, B33, B53(P)	6.6 - 18.7	6.6 - 24.4
VCW 226/7-2 (E-PL) ecoTEC pure	C13, C33, C43(x), C53, C83, C93, B23, B33, B53(P)	6.6 - 18.7	6.6 - 24.4
VUW 246/7-2 (H-GB) ecoTEC sustain 24	C13, C33, C43, C53, C83, C93, B33, B53(P)	6.6 - 18.7	6.6 - 24.4
VUW 246/7-2 (H-GB) ecoTEC pure24	C13, C33, C43, C53, C83, C93, B33, B53(P)	6.6 - 18.7	6.6 - 24.4
VUW 286/7-2 (H-GB) ecoTEC sustain 28	C13, C33, C43, C53, C83, C93, B33, B53(P)	7.6 - 18.7	7.6 - 28.5
VUW 286/7-2 (H-GB) ecoTEC pure 28	C13, C33, C43, C53, C83, C93, B33, B53(P)	7.6 - 18.7	7.6 - 28.5
VUW 346/7-2 (H-GB) ecoTEC sustain 34	C13, C33, C43, C53, C83, C93, B33, B53(P)	8.6 - 18.7	8.6 - 34.6
VHR 18-24/7-2 (K-NL) ecoTEC pure	C13, C33, C43(x), C53, C63, C83, C93, B53(P)	6.8 – 19.1	6.8 - 24.5
VHR 18-24/7-2 (K-NL) EXP ecoTEC pure	C13, C33, C43(x), C53, C63, C83, C93, B53(P)	6.8 – 19.1	6.8 - 24.5
VHR 23-28/7-2 (K-NL) ecoTEC pure	C13, C33, C43(x), C53, C63, C83, C93, B53(P)	7.8 -24.8	7.8 -28.6
VHR 23-28/7-2 (K-NL) EXP ecoTEC pure	C13, C33, C43(x), C53, C63, C83, C93, B53(P)	7.8 -24.8	7.8 -28.6
VHR 28-34/7-2 (K-NL) ecoTEC pure	C13, C33, C43(x), C53, C63, C83, C93, B53(P)	8.6 - 28.8	8.6 - 34.6
VUW 236/7-2 (H-INT III) ecoTEC pure	C13(x), C33(x), C43(x), C53(x), C83(x), C93(x), B23, B33, B53(P)	6.8 – 19.1	6.8 - 24.5
VU 246/7-2 (H-INT III) ecoTEC pure	C13(x), C33(x), C43(x), C53(x), C83(x), C93(x), B23, B33, B53(P)	6.8 – 19.1	6.8 - 24.5

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VUW 286/7-2 (H-INT III) ecoTEC pure	C13(x), C33(x), C43(x), C53(x), C83(x), C93(x), B23, B33, B53(P)	7.8 -24.8	7.8 -28.6
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Remark:

Flue type C43(x) (common flue system with a maximum of 5 appliances) according the applicable installation instructions and mounting instructions mentioned in the flue book manuals for related appliances and countries.

Directives

Gas Appliance Directive (2009/142/EC)

Standard

EN 15502-1:2012 + A1 : 2015, EN 15502-2-1: 2012

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Appliance category and Countries of destination

Type name	Appliance category	Countries
VUW 196/7-2 (H-SEE) ecoTEC pure	I12H3P G20 – 20 mbar G31 – 37 mbar	BA, HR, RS, SI
VUW 236/7-2 (H-INT II) ecoTEC pure	I12H3P, I12HS3P G20 – 20 mbar (HU 25) G25.1 – 25 mbar G31 – 37 mbar	CZ, SK, RO, HU
VUW 236/7-2 (H-TR) ecoTEC pure	I12H3P G20 – 20 mbar G31 – 37 mbar	TR
VUW 236/7-2 (H-TR) S ecoTEC pure	I12H3P G20 – 20 mbar G31 – 37 mbar	TR
VMW 236/7-2 (H-ES) ecoTEC pure	I12H3P G20 – 20 mbar G31 – 37 mbar	ES
VU 246/7-2 (H-INT II) ecoTEC pure	I12H3P, I12HS3P G20 – 20 mbar (HU 25) G25.1 – 25 mbar G31 – 37 mbar	CZ, SK, HU
VMW 246/7-2 (H-IT)	I12HM3P G20 – 20 mbar G230 – 20 mbar G31 – 37 mbar	IT
VUW 286/7-2 (H-INT II) ecoTEC pure	I12H3P, I12HS3P G20 – 20 mbar G25.1 – 25 mbar G31 – 37 mbar	RO, HU
VMW 286/7-2 (H-ES) ecoTEC pure	I12H3P G20 – 20 mbar G31 – 37 mbar	ES
VUW 286/7-2 (H-TR) ecoTEC pure	I12H3P G20 – 20 mbar G31 – 37 mbar	TR
VUW 286/7-2 (H-TR) S ecoTEC pure	I12H3P G20 – 20 mbar G31 – 37 mbar	TR
VCW 226/7-2 (E-BE) ecoTEC pure	I2E(S) I3P G20 – 20 mbar G31 – 37 mbar	BE
VC 186/7-2 (E-BE) ecoTEC pure	I2E(S) I3P G20 – 20 mbar G31 – 37 mbar	BE
VC 256/7-2 (E-BE) ecoTEC pure	I2E(S) I3P G20 – 20 mbar G31 – 37 mbar	BE
VCW 286/7-2 (E-BE) ecoTEC pure	I2E(S) I3P G20 – 20 mbar G31 – 37 mbar	BE
VC 226/7-2 (E-PL) ecoTEC pure	I12ELw3P G20 – 20 mbar G27 – 20 mbar G31 – 37 mbar	PL
VCW 226/7-2 (E-PL) ecoTEC pure	I12ELw3P G20 – 20 mbar G27 – 20 mbar G31 – 37 mbar	PL
VUW 246/7-2 (H-GB) ecoTEC sustain 24	I12H3P G20 – 20 mbar G31 – 37 mbar	GB, IE

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VUW 246/7-2 (H-GB) ecoTEC pure24	II2H3P	G20 – 20 mbar G31 – 37 mbar	GB
VUW 286/7-2 (H-GB) ecoTEC sustain 28	II2H3P	G20 – 20 mbar G31 – 37 mbar	GB, IE
VUW 286/7-2 (H-GB) ecoTEC pure 28	II2H3P	G20 – 20 mbar G31 – 37 mbar	GB
VUW 346/7-2 (H-GB) ecoTEC sustain 34	II2H3P	G20 – 20 mbar G31 – 37 mbar	GB, IE
VHR 18-24/7-2 (K-NL) ecoTEC pure	II2EK3P	G25.3 – 20 mbar G31 – 37 mbar	NL
VHR 18-24/7-2 (K-NL) EXP ecoTEC pure	II2EK3P	G25.3 – 20 mbar G31 – 37 mbar	NL
VHR 23-28/7-2 (K-NL) ecoTEC pure	II2EK3P	G25.3 – 20 mbar G31 – 37 mbar	NL
VHR 23-28/7-2 (K-NL) EXP ecoTEC pure	II2EK3P	G25.3 – 20 mbar G31 – 37 mbar	NL
VHR 28-34/7-2 (K-NL) ecoTEC pure	II2EK3P	G25.3 – 20 mbar G31 – 37 mbar	NL
VUW 236/7-2 (H-INT III) ecoTEC pure	II2H3P	G20 – 20 mbar G31 – 37 mbar	GR, BG, PT, EE, LT, LV
VU 246/7-2 (H-INT III) ecoTEC pure	II2H3P	G20 – 20 mbar G31 – 37 mbar	GR, BG, PT, EE, LT, LV
VUW 286/7-2 (H-INT III) ecoTEC pure	II2H3P	G20 – 20 mbar G31 – 37 mbar	GR, BG, PT, EE, LT, LV

Number	92999/04	Replaces	92999/03
Issued	27-03-2017	Scope	No. 813/2013 (2-8-2013) and/or 92/42/EEC (21-05-1992)
Report number	160301775/5		
PIN	0063CR3775	Contract number	E 8090

EC TYPE EXAMINATION CERTIFICATE (BED/R813)

Kiwa, notified body for council Directive 92/42/EC, hereby declares that the **Central Heating Boilers**, types:

VUW 196/7-2 (H-SEE) ecoTEC pure	VU 246/7-2 (H-INT II) ecoTEC pure
VUW 236/7-2 (H-INT II) ecoTEC pure	VMW 246/7-2 (H-IT) ecoTEC pure
VMW 236/7-2 (H-ES) ecoTEC pure	VUW 286/7-2 (H-INT II) ecoTEC pure
VUW 236/7-2 (H-TR) S ecoTEC pure	VMW 286/7-2 (H-ES) ecoTEC pure
VUW 236/7-2 (H-TR) ecoTEC pure	VUW 286/7-2 (H-TR) ecoTEC pure
VCW 226/7-2 (E-BE) ecoTEC pure	VUW 286/7-2 (H-TR) S ecoTEC pure
VC 186/7-2 (E-BE) ecoTEC pure	VUW 246/7-2 (H-GB) ecoTEC sustain 24
VC 256/7-2 (E-BE) ecoTEC pure	VUW 246/7-2 (H-GB) ecoTEC pure24
VCW 286/7-2 (E-BE) ecoTEC pure	VUW 286/7-2 (H-GB) ecoTEC sustain 28
VC 226/7-2 (E-PL) ecoTEC pure	VUW 286/7-2 (H-GB) ecoTEC pure 28
VCW 226/7-2 (E-PL) ecoTEC pure	VUW 346/7-2 (H-GB) ecoTEC sustain 34
VHR 18-24/7-2 (K-NL) ecoTEC pure	VHR 18-24/7-2 (K-NL) EXP ecoTEC pure
VHR 23-28/7-2 (K-NL) ecoTEC pure	VHR 23-28/7-2 (K-NL) EXP ecoTEC pure
VHR 28-34/7-2 (K-NL) ecoTEC pure	VUW 236/7-2 (H-INT III) ecoTEC pure
VU 246/7-2 (H-INT III) ecoTEC pure	VUW 286/7-2 (H-INT III) ecoTEC pure

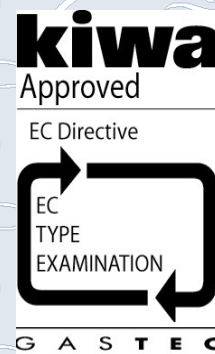
Manufactured by **Vaillant GmbH**
Remscheid, Germany

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

This is based upon the measured values as given in the table in the appendices



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Certificate

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Vaillant

Scope

Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VUW 196/7-2 (H-SEE) ecoTEC pure**

Condensing boiler: 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	18.5	kW
At 30 % of rated heat output and low-temperature regime (**)	P ₁	6.2	kW

Useful efficiencies

At rated heat output and high-temperature regime (*)	η_4	87.17
At 30 % of rated heat output and low-temperature regime (**)	η_1	97.07

(*) 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).

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

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Vaillant

Scope

Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VUW 236/7-2 (H-INT II) ecoTEC pure**

Condensing boiler: 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	18.5	kW
At 30 % of rated heat output and low-temperature regime (**)	P ₁	6.2	kW

Useful efficiencies

At rated heat output and high-temperature regime (*)	η_4	87.17
At 30 % of rated heat output and low-temperature regime (**)	η_1	97.07

(*) 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).

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

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Vaillant

Scope

Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VU 246/7-2 (H-INT II) ecoTEC pure**

Condensing boiler: 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	24.1	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	8.0	kW

Useful efficiencies

At rated heat output and high-temperature regime (*)	η_4	87.35
At 30 % of rated heat output and low-temperature regime (**)	η_1	97.07

(*) 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).

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

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Scope

Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VUW 286/7-2 (H-INT II) ecoTEC pure**

Condensing boiler: 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

At rated heat output and high-temperature regime (*)	η_4	87.35
At 30 % of rated heat output and low-temperature regime (**)	η_1	97.07

(*) 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).

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

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Scope

Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VUW 236/7-2 (H-TR) ecoTEC pure**
VUW 236/7-2 (H-TR) S ecoTEC pure

Condensing boiler: 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	18.5	kW
At 30 % of rated heat output and low-temperature regime (**)	P ₁	6.2	kW
Useful efficiencies			
At rated heat output and high-temperature regime (*)	η ₄	87.17	
At 30 % of rated heat output and low-temperature regime (**)	η ₁	97.07	

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

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

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Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VUW 286/7-2 (H-TR) ecoTEC pure**
VUW 286/7-2 (H-TR) S ecoTEC pure

Condensing boiler: 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

At rated heat output and high-temperature regime (*)	η_4	87.35
At 30 % of rated heat output and low-temperature regime (**)	η_1	97.07

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

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Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VMW 236/7-2 (H-ES) ecoTEC pure**

Condensing boiler: 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	18.5	kW
At 30 % of rated heat output and low-temperature regime (**)	P ₁	6.2	kW

Useful efficiencies

At rated heat output and high-temperature regime (*)	η_4	87.17
At 30 % of rated heat output and low-temperature regime (**)	η_1	97.07

(*) 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).

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

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Specifications:

Model(s): **VMW 286/7-2 (H-ES) ecoTEC pure**

Condensing boiler: 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

At rated heat output and high-temperature regime (*)	η_4	87.35
At 30 % of rated heat output and low-temperature regime (**)	η_1	97.07

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(**) 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).

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

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Appendix no: 1

Dated: 27-03-2017

Examination report(s):

160301775/5

dated 24-03-2017

Vaillant

Scope

Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VMW 246/7-2 (H-IT) ecoTEC pure**

Condensing boiler: 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

At rated heat output and high-temperature regime (*)	η_4	87.35
At 30 % of rated heat output and low-temperature regime (**)	η_1	97.07

(*) 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).

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

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Examination report(s):

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dated 24-03-2017

Vaillant

Scope

Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VC 186/7-2 (E-BE) ecoTEC pure**

Condensing boiler: 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	18.5	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	6.1	kW

Useful efficiencies

At rated heat output and high-temperature regime (*)	η_4	88.73
At 30 % of rated heat output and low-temperature regime (**)	η_1	96.73

(*) 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).

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

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Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VCW 226/7-2 (E-BE) ecoTEC pure**

Condensing boiler: 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	18.5	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	6.1	kW

Useful efficiencies

At rated heat output and high-temperature regime (*)	η_4	88.73
At 30 % of rated heat output and low-temperature regime (**)	η_1	96.73

(*) 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).

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

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Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VC 256/7-2 (E-BE) ecoTEC pure**

Condensing boiler: 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	24.1	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	8.1	kW

Useful efficiencies

At rated heat output and high-temperature regime (*)	η_4	87.17
At 30 % of rated heat output and low-temperature regime (**)	η_1	97.25

(*) 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).

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

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Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VCW 286/7-2 (E-BE) ecoTEC pure**

Condensing boiler: 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	8.1	kW

Useful efficiencies

At rated heat output and high-temperature regime (*)	η_4	87.17
At 30 % of rated heat output and low-temperature regime (**)	η_1	97.25

(*) 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).

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

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Scope

Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VUW 246/7-2 (H-GB) ecoTEC sustain 24**
VUW 246/7-2 (H-GB) ecoTEC pure24

Condensing boiler: 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	18.5	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	6.1	kW

Useful efficiencies

At rated heat output and high-temperature regime (*)	η_4	88.73
At 30 % of rated heat output and low-temperature regime (**)	η_1	96.73

(*) 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).

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

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Scope

Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VUW 286/7-2 (H-GB) ecoTEC sustain 28**
VUW 286/7-2 (H-GB) ecoTEC pure 28

Condensing boiler: 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	18.5	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	6.1	kW

Useful efficiencies

At rated heat output and high-temperature regime (*)	η_4	88.40
At 30 % of rated heat output and low-temperature regime (**)	η_1	97.25

(*) 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).

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

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Scope

Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VC 226/7-2 (E-PL) ecoTEC pure**

Condensing boiler: 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	18.5	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	6.1	kW

Useful efficiencies

At rated heat output and high-temperature regime (*)	η_4	88.73
At 30 % of rated heat output and low-temperature regime (**)	η_1	96.73

(*) 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).

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

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Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VCW 226/7-2 (E-PL) ecoTEC pure**

Condensing boiler: 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	18.5	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	6.1	kW
Useful efficiencies			
At rated heat output and high-temperature regime (*)	η_4	88.73	
At 30 % of rated heat output and low-temperature regime (**)	η_1	96.73	

(*) 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).

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

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Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VUW 346/7-2 (H-GB) ecoTEC sustain 34**

Condensing boiler: 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	18.5	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	6.1	kW
Useful efficiencies			
At rated heat output and high-temperature regime (*)	η_4	88.97	
At 30 % of rated heat output and low-temperature regime (**)	η_1	97.34	

(*) 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).

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

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Scope

Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VHR 18-24/7-2 (K-NL) ecoTEC pure**
VHR 18-24/7-2 (K-NL) EXP ecoTEC pure

Condensing boiler: 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	18.5	kW
At 30 % of rated heat output and low-temperature regime (**)	P ₁	6.2	kW

Useful efficiencies

At rated heat output and high-temperature regime (*)	η_4	87.17
At 30 % of rated heat output and low-temperature regime (**)	η_1	97.07

(*) 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).

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

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Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VHR 23-28/7-2 (K-NL) ecoTEC pure**
VHR 23-28/7-2 (K-NL) EXP ecoTEC pure

Condensing boiler: 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			
At rated heat output and high-temperature regime (*)	η_4	87.35	
At 30 % of rated heat output and low-temperature regime (**)	η_1	97.07	

(*) 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).

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

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Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VHR 28-34/7-2 (K-NL) ecoTEC pure**

Condensing boiler: 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	28.0	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	9.4	kW
Useful efficiencies			
At rated heat output and high-temperature regime (*)	η_4	87.62	
At 30 % of rated heat output and low-temperature regime (**)	η_1	97.79	

(*) 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).

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

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Scope

Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VUW 236/7-2 (H-INT III) ecoTEC pure**

Condensing boiler: 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	18.5	kW
At 30 % of rated heat output and low-temperature regime (**)	P ₁	6.2	kW
Useful efficiencies			
At rated heat output and high-temperature regime (*)	η ₄	87.17	
At 30 % of rated heat output and low-temperature regime (**)	η ₁	97.07	

(*) 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).

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

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Scope

Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VU 246/7-2 (H-INT III) ecoTEC pure**

Condensing boiler: 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	18.5	kW
At 30 % of rated heat output and low-temperature regime (**)	P ₁	6.2	kW
Useful efficiencies			
At rated heat output and high-temperature regime (*)	η ₄	87.17	
At 30 % of rated heat output and low-temperature regime (**)	η ₁	97.07	

(*) 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).

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

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Directive 92/42/EEC

Article 4 of commission regulation (EU) No. 813/2013

Specifications:

Model(s): **VUW 286/7-2 (H-INT III) ecoTEC pure**

Condensing boiler: 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			
At rated heat output and high-temperature regime (*)	η_4	87.35	
At 30 % of rated heat output and low-temperature regime (**)	η_1	97.07	

(*) 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).

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