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**Test report no. H-A 1348-04/16**  
**supplementary to test report no. H-A 1348-02/15 dated 2015-07-08**

Test laboratory  
TÜV SÜD Industrie Service GmbH  
Feuerungs- und Wärmetechnik  
Prüfbereich Wärmetechnik

Date: 2016-10-20

Our reference:  
IS-TAF-MUC/td

Subject of test  
Heating boiler for solid fuels

Report No. H-A 1348-04/16  
Order no. 2625563

Type: LogWIN ... Klassik or LWK

Document:  
HA13480416\_Erg\_LogWinKla  
ssik\_eng.doc

Sizes/  
Models: LogWIN 180 Klassik or LWK 180  
LogWIN 250 Klassik or LWK 250  
and  
LogWIN 300 Klassik or LWK 300

Page 1

This document includes  
2 pages and 1 enclosure

Fuel: Log wood A

Customer  
Windhager Zentralheizung Technik GmbH  
Anton-Windhager-Strasse 20  
5201 SEEKIRCHEN, ÖSTEREICH

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Basis of test  
EN 303-5:2012

Period of test  
Oktober 2016

The test results refer exclusively  
to the units under test.

### **Designation of interpolated values of not on performance requirements tested intermediate size LogWIN 250 Klassik or LWK 250**

The heating boiler LogWIN 250 Klassik or LWK 250 is a not on boiler performance tested intermediate size according to EN 303-5, clause 5.1.4. The manufacturer determined interpolated values on efficiency and emissions which are documented in enclosure A of this test report together with the values of the tested heating boilers.

This test report is also issued in a German version. In any case of doubts the German version is binding.

In this test report a comma is used as a decimal separator.



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A test on plausibility on the interpolated values was carried out on the basis of the measured values as tested and documented in report no. H-A 1348-02/15 dated 2015-07-08. The test on plausibility on the interpolated values by the manufacturer shows a positive result.

According to the Summarised Validation the heating boiler range including the different models fulfils the requirements of EN 303-5, clauses 4.1, 4.2, 4.3.1 to 4.3.8, 4.3.9.2, 4.4, 5.4, 5.16.1, 7.2, 8.2 and 8.3.

Feuerungs- und Wärmetechnik  
Prüfbereich Wärmetechnik

A handwritten signature in blue ink, appearing to read 'i. d. N. Steiglechner'.

Johannes Steiglechner  
Leiter  
Feuerungs- und Wärmetechnik

The expert

A handwritten signature in blue ink, appearing to read 'Thomas Dambor'.

Thomas Dambor

Heating boiler range, type: LogWIN ... Klassik or LWK

Heating boiler	Fuel <sup>1)</sup>	Nominal Heat output	Necessary flue gas draught	Flue gas temperature	Boiler class	Efficiency	Emission values <sup>2)</sup>			
							CO	NO <sub>x</sub>	C <sub>x</sub> H <sub>y</sub>	Dust
Models/Sizes		kW	Pa	°C		η	mg/m <sup>3</sup>	mg/m <sup>3</sup>	mg/m <sup>3</sup>	mg/m <sup>3</sup>
180	A	18,0	10	120	5	90,9	258	163	2	14
		15,2		95		89,4	356	135	4	13
250 <sup>3)</sup>	A	25,0	10	133	5	90,7	158	165	3	13
		15,2		95		89,4	356	135	4	13
300	A	30,0	10	145	5	90,5	64	167	3	12
		15,2		95		89,4	356	135	4	13

Heating boiler	Nominal Heat output	Emission values <sup>4)</sup>				
		CO	NO <sub>x</sub>	OGC	Staub	Particles <sup>5)</sup> (PPBT)
Models/Sizes	kW	mg/m <sup>3</sup>	mg/m <sup>3</sup>	mg/m <sup>3</sup>	mg/m <sup>3</sup>	mg/m <sup>3</sup>
180	18,0	188	118	2	10	11
	15,2	259	98	3	10	11
250 <sup>3)</sup>	25,0	116	120	2	10	11
	15,2	259	98	3	10	11
300	30,0	47	122	2	9	10
	15,2	259	98	3	10	11

- 1) A: Log wood B1: Chipped wood (water content 15 to 35 %) C1: Compressed wood Pellets (6 mmØ) D: Sawdust  
 2) related to 10 % O<sub>2</sub> in flue gas  
 3) not tested intermediate size, data given by manufacturer  
 4) related to 13 % O<sub>2</sub> in flue gas  
 5) CO or particels (mg/m<sup>3</sup>) = dust (mg/m<sup>3</sup>) + 0,42\*OGC (mg/m<sup>3</sup>) at 13% O<sub>2</sub>-Content in flue gas according to *DECRETO 28 dicembre 2012 - "Incentivazione della produzione di energia termica da fonti rinnovabili ed interventi di efficienza energetica di piccole dimensioni"*, table 11