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Test report no. H-A 1240-05/16

supplementary to test report no. H-A 1240-04/16 dated 2016-06-10

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 1240-05/16
Order no. 2625563

Type: LogWIN Premium T or LWP T

Document:
HA12400516_Erg_LogWin-
Premium-T_eng.doc

**Sizes/
Models:** LogWIN Premium 180T or LWP 180T
LogWIN Premium 185T or LWP 185T
LogWIN Premium 250T or LWP 250T
LogWIN Premium 255T or LWP 255T
LogWIN Premium 300T or LWP 300T
LogWIN Premium 305T or LWP 305T
LogWIN Premium 360T or LWP 360T
LogWIN Premium 365T or LWP 365T
LogWIN Premium 500T or LWP 500T
LogWIN Premium 505T or LWP 505T

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This document includes
2 pages and 1 enclosure

Fuel: Log wood A

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The test results refer exclusively
to the units under test.

Basis of test EN 303-5:2012

Period of test Oktober 2016

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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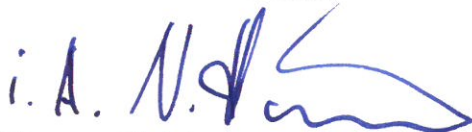
Designation of interpolated values of not on performance requirements tested intermediate sizes LogWIN Premium 185T (LWP 185T), LogWIN Premium 250T (LWP 250T), LogWIN Premium 255T (LWP 255T), LogWIN Premium 300T (LWP 300T), LogWIN Premium 360T (LWP 360T), LogWIN Premium 365T (LWP 365T) and LogWIN Premium 505T (LWP 505T)

The heating boilers LogWIN Premium 185T (LWP 185T), LogWIN Premium 250T (LWP 250T), LogWIN Premium 255T (LWP 255T), LogWIN Premium 300T (LWP 300T), LogWIN Premium 360T (LWP 360T), LogWIN Premium 365T (LWP 365T) and LogWIN Premium 505T (LWP 505T) are not on boiler performance tested intermediate sizes 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.

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 1240-04/16 dated 2016-06-10. 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



Johannes Steiglechner
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The expert



Thomas Dambor



Heating boiler range, type: LogWIN Premium T or LWP T

Heating boiler Models/Sizes ⁵⁾	Fuel ¹⁾	Nominal Heat output kW	Necessary flue gas draught Pa	Flue gas temperature °C	Boiler class	Efficiency η %	Emission values ²⁾			
							CO mg/m ³	NO _x mg/m ³	C _x H _y mg/m ³	Dust mg/m ³
180 185 ³⁾	A	18,0 13,4	10	105 97	5	91,5 91,2	271 601	126 130	7 14	30 19
250 ³⁾ 255 ³⁾	A	25,0 13,4	10	126 97	5	91,8 91,2	176 601	164 130	5 14	25 19
300 305 ³⁾	A	30,0 13,4	15	143 97	5	92,0 91,2	96 601	196 130	4 14	20 19
360 365 ³⁾	A	36,0 23,7	20	151 109	5	91,5 91,6	104 256	192 161	4 4	21 27
500 505 ³⁾	A	49,8 23,7	20	175 109	5	90,1 91,6	130 256	179 161	2 4	24 27

Heating boiler Models/Sizes ⁵⁾	Nominal Heat output kW	Emission values ⁴⁾				
		CO mg/m ³	NO _x mg/m ³	OGC mg/m ³	Staub mg/m ³	Particles ⁶⁾ (PPBT) mg/m ³
180 185 ³⁾	18,0 13,4	197 437	91 95	5 10	22 13	24 17
250 ³⁾ 255 ³⁾	25,0 13,4	128 437	119 95	4 10	18 13	20 17
300 305 ³⁾	30,0 13,4	70 437	143 95	3 10	14 13	15 17
360 365 ³⁾	36,0 23,7	77 186	140 117	3 3	15 20	16 21
500 505 ³⁾	49,8 23,7	95 186	130 117	1 3	18 20	18 21

- 1) A: Log wood B1: Chipped wood (water content 15 to 35 %) C1: Compressed wood Pellets (6 mmØ) D: Sawdust
 2) related to 10 % O₂ in flue gas
 3) not tested intermediate size, data given by manufacturer
 4) related to 13 % O₂ in flue gas
 5) LogWIN Premium ..0T (modulating)
 LogWIN Premium ..5T (fix at set heat output)
 6) CO or particels (mg/m³) = dust (mg/m³) + 0,42*OGC (mg/m³) at 13% O₂-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