

Rhein-Ruhr Feuerstätten Prüfstelle • Im Lipperfeld 34 b • 46047 Oberhausen

- ❖ Testing laboratory according to Regulation (EU) Nr. 305/2011, notified body No.: NB 1625
- ❖ Testing laboratory according to DIN EN ISO/IEC 17025:2005, DAkkS No. D-PL-17727-01-00
- ❖ Testing, monitoring and certification body according to LBO, registered No.: NRW 15
- ❖ Testing, monitoring and certification body in construction supervision licensing procedures
- ❖ DIN CERTCO testing laboratory, registered No. PL139



Certificate No. RRF - ITT 14 3575-2

Brief summary of the test results for the declaration of performance (DoP) according to regulation (EU) 305/2011 (CPR)

Testing method:	EN 13240:2001/A2:2004/AC:2007 Amendment according to Art. 15a B-VG of the Republic of Austria(IHS only)
Fulfilled requirements:	1. and 2. level of 1. BImSchV of Germany LRV of Switzerland
Manufacturer:	HWAM A/S Nydamsvej 53, DK-8362 Hørning
Tested product:	Roomheater HWAM 3220c, HWAM 3220c IHS, HWAM 3220m und HWAM 3220m IHS
Nominal Heat output	4,5 kW (-Solid fuel wood logs)
Test result:	The construction product fulfilled all requirements with the mentioned test fuels (p.2) of the above-named european standards and regulations. Test results see page 2.

This document is a translation of the original German certificate. In case of doubts, the German version is valid.

This document replaces the Certificate No. RRF - 40 14 3575-1 dated on 09 October 2017.



Oberhausen, 11 December 2017

(Place and date)


(Dipl.-Ing. S. Müller)

(stamp and signature of the
head of the testing laboratory)

Harmonized technical specification		EN 13240:2001/A2:2004/AC:2007	
Essential characteristics		Performance	
Fire safety		Pass	
Reaction to fire		A1	
<u>Minimum Distances to combustibile materials</u>			
Position of the fireplcae in the trihedron		90°	45°
floor	mm	0	0
rear/ sides / ceiling	mm	100 / 200 / ---	--- / 130 / ---
In range of the inspection window	mm	800	---
In range of the lateral window	mm	---	---
Risk of burning fuel falling out		Pass	
Emissions of combustion products based on 13% O₂			
Product variants		bi-metal	IHS
Test results with test fuel		Beech logs	Lignite briquettes
	%:	CO [0,07 %]	CO [0,08 %]
Mean CO-content	mg/m ³	875	1000
Particles	mg/m ³	22	20
Mean NO _x -content	mg/m ³	130	108
Mean OGC-content	mg/m ³	85	51
<u>Emissions in flue gas based on energy</u>			
(Evaluation according to the requirements of "Art. 15a B-VG über Schutzmaßnahmen betreffend Kleinf Feuerungen" in Austria)			
Mean CO-content	mg/MJ	---	630
Particles	mg/MJ	---	13
Mean NO _x -content	mg/MJ	---	68
Mean OGC-content	mg/MJ	---	31
Surface temperature		Pass	
Electrical safety		npd	
Release of hazardous substances		npd	
Mechanical resistance (to carry a flue)		Pass	
Thermal output/Energy efficiency		Pass	
Nominal heat output	kW	4,5	4,5
Total heat output (test result)	kW	4,7	4,9
Space heat output (test result)	kW	4,7	4,9
Water heat output (test result)	kW	---	---
Efficiency	η [%]	78	83
Flue gas temperature	T [°C]	254	238
<u>"Wertetripel" for calculating the flue according to DIN EN 13384-1 and 13384-2</u>			
Flue gas mass flow accor. to nominal heat output	ṁ [g/s]	5,1	3,7
Flue gas temperature measured on flue spigot	t [°C]	300	307
Mean flue draught according to nominal heat output	p [Pa]	12	12
Operating mode		intermittent burning	intermittent burning
The roomheater is suitable for installation in a shared flue system.			

