

- ❖ 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 - 40 16 4220

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

Testing method: EN 13240:2001/A2:2004/AC:2007
Amendment according to Art. 15a B-VG of the Republic of Austria

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 4530c
4530m, 4540c, 4540m, 4540c stone, 4540m stone,
4550c, 4550m, 4560c, 4560m, 4560c stone, 4560m stone

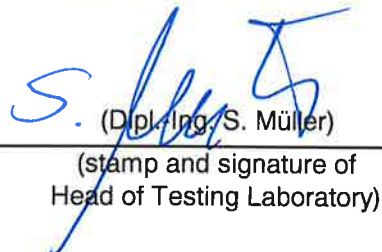
Nominal Heat output **4,9 kW**

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.

Oberhausen, 13 June 2016

(Place and date)


Rhein-Ruhr Feuerstätten Prüfstelle



(Dipl.-Ing. S. Müller)
(stamp and signature of
Head of Testing Laboratory)

Harmonized technical specification	EN 13240:2001/A2:2004/AC:2007	
Essential characteristics	Performance	
Fire safety	Pass	
Reaction to fire	A1	
Minimum distances to combustible materials of the variant HWAM 4530c		
Position of the fireplace in the trihedron	90 °	45 °
floor	mm: 0	0
rear/ sides / ceiling	mm: 100 / 590 / ---	--- / 330 / ---
In range of the inspection window	mm: 1200	1200
In range of the lateral window	mm: 590	330
Minimum distances to combustible materials of the variant HWAM 4540c		
Position of the fireplace in the trihedron	90 °	45 °
floor	mm: 0	0
rear/ sides / ceiling	mm: 100 / 350 / ---	--- / 70 / ---
In range of the inspection window	mm: 1100	1100
In range of the lateral window	mm: ---	---
Minimum distances to combustible materials of the variant HWAM 4540c stone		
Position of the fireplace in the trihedron	90 °	45 °
floor	mm: 0	0
rear/ sides / ceiling	mm: 100 / 400 / ---	--- / 70 / ---
In range of the inspection window	mm: 1100	1100
In range of the lateral window	mm: ---	---
Risk of burning fuel falling out	Pass	



Emissions of combustion products based on 13% O₂		
Test results with test fuel		Beech logs
Mean CO-content	%	CO [0,08%]
Mean CO-content	mg/m ³	1000
Particles	mg/m ³	24
Mean NO ₂ -content	mg/m ³	102
Mean OGC-content	mg/m ³	94
<u>Emissions in flue gas based on energy</u>		
Mean CO-content	mg/MJ	752
Particles	mg/MJ	18
Mean NO ₂ -content	mg/MJ	77
Mean OGC-content	mg/MJ	34
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	4,9
Total heat output (test result)	kW	5,3
Space heat output (test result)	kW	5,3
Efficiency	η [%]	82
Flue gas temperature	T [°C]	260
<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]	4,1
Flue gas temperature measured on flue spigot	t [°C]	312
Mean flue draught according to nominal heat output	p [Pa]	12
Operating mode		intermittent burning
The roomheater is suitable for installation in a shared flue system, except of room sealed appliance.		

