



DANISH TECHNOLOGICAL INSTITUTE

Accredited test institute, DANAK accreditation No. 300
Notified Body with identification number 1235
DIN Certco test laboratory, PL 168

TEST CERTIFICATE – ITT 2413-rev1

Extract of report no. **300-ELAB-2413-EN, 300-ELAB-2412-EN and ELAB-2413-AUS**

Testing Method: EN 13240:2001/A2:2004/AC:2007

Manufacturer:

Company: Nibe Energy Systems AB
Address: Box 14
Postcode/town: S-285 21 Markaryd
Country: Sweden

Fulfilled Requirements

1. and 2. Level of 1. BImSchV of Germany
LRV of Switzerland
Flamme Verte - 7 stars
Ecodesign (Commission Regulation 2015/1185 of 24 April 2015 and implementing Directive 2009/125/EC)
Emissionswerte nach Vereinbarung Art. 15a B VG –
Inverkehrbringen von Kleinfeuerungen.

Tested Product:

Local space heater(s) C856 Style and variants (**C856** Style, -G, -T, -TG, -W, -GW **C810** -G, **C820** -T, -TG, **C870**, -G, **C886** -G, **C890** -G, -T, -TG **C896** -G)

Nominal heat output: 6 kW

Test results

The construction product fulfilled all requirements with the mentioned test fuels of the above-named European standards and regulations

Aarhus, the 3rd of December

Morten Gottlieb Warming-Jespersen
Head of Section

Harmonized technical specification	EN 13240:2001/A2:2004/AC:2007	
Essential characteristics	Performance	
Fire safety	Pass	
Reaction to fire	A1 WT	Extract from DOP
Minimum clearance to combustible materials – Contura 856		
Distance to side wall	500	mm
Distance to rear wall	50	mm
Clearance to corner wall (45°)	200	mm
Furnishing distance (in front of the stove)	850	mm
Minimum clearance to combustible materials – Contura 810		
Distance to side wall	350	mm
Distance to rear wall	100	mm
Clearance to corner wall (45°)	50	mm
Furnishing distance (in front of the stove)	1050	mm
Risk of burning fuel falling out	Pass	
Surface temperature	Pass	
Electrical safety	N/A	
Release of hazardous substances	N/A	
Mechanical resistance (to carry a flue)	Pass	
Emissions of combustion products		
Test fuel	Birch logs	
CO ₂ , mean value	11.7	%
CO at 13 % O ₂	0.0925	%
CO at 13 % O ₂	1156	mg/m ³ _n
OGC at 13 % O ₂ (carbon equivalents)	56	mg/m ³ _n
NO _x at 13 % O ₂ (NO ₂ equivalents)	80	mg/m ³ _n
PM at 13 % O ₂	8	mg/m ³ _n
Emissions of combustion products based on energy		
CO at 13 % O ₂	811	mg/MJ
OGC at 13 % O ₂ (carbon equivalents)	37	mg/MJ
NO _x at 13 % O ₂ (NO ₂ equivalents)	53	mg/MJ
PM at 13 % O ₂	6	mg/MJ
Thermal output		
Flue gas temperature at 20 °C ambient temp.	292	°C
Efficiency	80	%
Nominal heat output, total (measured)	6.4	kW
Nominal heat output, ambient (measured)	6.4	kW
“Wertetrippel” for calculating the flue according to EN 13384-1 and 13384-2		
Flue spigot temperature at 20°C ambient temp.	350	°C (Calculated)
Flue gas mass flow	4.6	g/sec
Flue draught, mean value	13	Pa
Operating mode	Intermittent burning	
According to EN16510-1:2018 the room heater is suitable for installation in a shared flue system, but only if the flue system is proven according to EN 13384-2		