ANNEX 2

Technical documentation for heat pumps and electric boilers

Supplier:			Varmeteknikk AS							
Address:			Postboks 6, Alnabru, N-0614 OSLO							
Applied standards:			Transitional methods for calculation and measurement according to EU Commission communication (2014/C 207/02) OJ 3.7.2014.							
Identification of person empowered:			Reidar Muri, Varmeteknikk AS							
Signature of pers	on empowered:									
Calculations:										
Precautions:	User instructions regarding checks of water supply, possible leakages, pressure and voltage. Also requirements for electrical installations.									
Technical parame	eters for energy	labelling:								
Model(s):	MB 2045, MB 4045									
Condensing boile	No									
Low temperature	No									
B11 boiler:	No									
Cogeneration spa	No		If yes, supplementary heater:			N/A				
Combination heater:			No							
Item	Symbol	Valu	e U	nit	Item	Symbol	Value	Unit		
Rated heat output	Prated	45	kV	W	Seasonal space heating energy efficiency	ης	36,8	%		
For boiler space heaters: Useful h		er combina	ation		For boiler space h heaters: Useful ef		ler combina	ation		
At rated heat output and high-temperature regime	P ₄	44,7	3 k\	W	At rated heat output and high-temperature regime	η4	39,8	%		
At 30% of rated output and low-temperature regime	P ₁		k\	W	At 30% of rated output and low-temperature regime	η1		%		
Auxiliary electricity consumption					Other items	1				
At full load	elmax		k۱	W	Standby heat loss	P _{stby}	0	kW		

At part load	elmin			kW	Ignition burner power consumption	P _{ign}		kW			
In standby mode	P _{SB}	0,00537		kW	Annual energy consumption	Qне		kWh or GJ			
					Sound power level, indoors			dB			
Technical parame	ters and product	informat									
Model(s):				MB 2045, MB 4045							
Condensing boiler:				No							
Low temperature boiler:				No No							
B11 boiler:											
Cogeneration space heater:			No	No If yes, supplementary heater:				N/A			
Combination heat	er:		No								
Item	Symbol	Valu	e	Unit	Item	Symbol	Value	Unit			
Rated heat output	Prated	45		kW	Seasonal space heating energy efficiency	ης	36,8	%			
For boiler space h heaters: Useful he		combina	ation		For boiler space h heaters: Useful ef		r combin	ation			
At rated heat output and high-temperature regime	P ₄	44,7	3	kW	At rated heat output and high-temperature regime	η4	39,8	%			
At 30% of rated output and low-temperature regime	P ₁			kW	At 30% of rated output and low-temperature regime	η1		%			
For cogeneration output	space heaters: Us	seful hea	t		For cogeneration	space heaters: U	Jseful effi	ciency			
At rated heat output of cogeneration space heater with supplementary heater disabled	P _{CHP100+Sup0}			kW	At rated heat output of cogeneration space heater with supplementary heater disabled	ηснР100+Sup0		%			
Auxiliary electricit	y consumption				Other items						
At full load	elmax			kW	Standby heat loss	P _{stby}	0	kW			
At part load	elmin			kW	Ignition burner power consumption	P _{ign}		kW			
In standby mode	P _{SB}	0,00	537	kW	Emissions of nitrogen oxides	NOx		mg/kWl			