CERTIFICATE

Number	100591/01	**Replaces**	--
Issue date	21-12-2018		
Report number	180301177	**Contract number**	E 8090
PIN	0063CT3177	**Scope**	Art. 4 of No. 813/2013 (2-8-2013) and/or 92/42/EEC (21-05-1992)

EC TYPE EXAMINATION CERTIFICATE (BED/R813)

Kiwa, notified body for council Directive 92/42/EC, hereby declares that the **Central Heating Boilers**,

Brand:	**Protherm**
types:	**Gepard 18/24 MOV-LC/1 (H-VE-EU)** **Gepard 18/24 MOV-LC/1 (H-SK)**
Manufacturer:	**Protherm Production s.r.o.** **Skalica, Slovak Republik**

meet the requirements regarding useful efficiencies according **to article 4 of commission regulation (EU) No. 813/2013** and/or as described in the **Directive 92/42/EEC on efficiency requirements.**

This is based upon the measured values as given in the table in the appendice.

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Luc Leroy, Kiwa

CE 0063

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APPENDIX TO EC TYPE EXAMINATION CERTIFICATE (BED/R813)

Protherm

Specifications:
Model(s): Gepard 18/24 MOV-LC/1 (H-VE-EU)
Gepard 18/24 MOV-LC/1 (H-SK)

Condensing boiler:	no
Range rated:	yes
Low-temperature (**) boiler:	yes
B1 boiler:	yes
Combination heater:	yes

	Symbol	Value	Unit
Useful heat output			
At rated heat output and high-temperature regime (*)	P_4	18.1	kW
At 30 % of rated heat output and low-temperature regime (**)	P_1	5.5	kW
Useful efficiencies			
At rated heat output and high-temperature regime (*)	η_4	79.9	%
At 30 % of rated heat output and low-temperature regime (**)	η_1	81.1	%

(*) High-temperature regime means 60 °C return temperature at heater inlet and 80 °C feed temperature at heater outlet.
(**) Low temperature means for condensing boilers 30 °C, for low-temperature boilers 37 °C and for other heaters 50 °C return temperature (at heater inlet).

Calculated values are based on gross calorific value (reference conditions:15 °C, 1013,25 mbar)