


Information requirements for warm air heaters Commission Regulation (EU) 2016/2281							
Information to identify the model(s) to which the information relates to: ULSA							
B1 warm air heater:		[NO]					
C2 warm air heater:		[NO]					
C4 warm air heater:		[NO]					
Type of fuel:		[GAS: G20/G25]					
Model:			025	035	050	075	100
Item:	Symbol:	Unit:					
Capacity:							
Rated heating capacity:	$P_{rated,h}$	[kW]	25.13	32.50	49.31	69.22	93.89
Minimum capacity:	P_{min}	[kW]	5.61	7.18	10.91	14.91	20.79
Electric power consumption*:							
At rated heating capacity:	$e_{l,max}$	[kW]	0.28	0.31	0.68	0.74	1.24
At minimal capacity:	$e_{l,min}$	[kW]	0.28	0.31	0.68	0.74	1.24
In standby mode:	$e_{l,sb}$	[kW]	0.02	0.02	0.02	0.02	0.02
Useful efficiency:							
Useful efficiency at rated heating capacity*:	η_{nom}	[%]	88.7	87.9	88.0	88.3	88.3
Useful efficiency at minimum capacity*:	η_{pl}	[%]	97.8	97.0	97.3	95.1	97.8
Other items:							
Envelope loss factor:	F_{env}	[%]	0	0	0	0	0
Ignition burner power consumption*:	P_{ign}	[kW]	0.02	0.02	0.02	0.02	0.02
Emissions of nitrogen oxides [input energy (GCV)]*:	NO_x	[mg/kWh]	21.9	31.7	34.4	28.2	30.8
Emission efficiency:	$h_{s,flow}$	[%]	97.1	97.1	97.0	97.1	97.0
ErP seasonal space heating energy efficiency:	$\eta_{s,h}$	[%]	92.4	91.9	92.5	90.9	93.1
Thermal efficiency at rated heating capacity [NCV]:	η	[%]	98.5	97.6	97.8	98.0	98.1
* not required for electric warm air heaters							
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values used are for units with dimples