


Information requirements for warm air heaters Commission Regulation (EU) 2016/2281

 Information to identify the model(s) to which the information relates to: **VRC-3E**

B1 warm air heater:		[NO]						
C2 warm air heater:		[NO]						
C4 warm air heater:		[NO]						
Type of fuel:		[GAS: G20/G25]						
Model:			020-3E	030-3E	045-3E	060-3E	075-3E	100-3E
Item:	Symbol:	Unit:						
Capacity:								
Rated heating capacity:	$P_{rated,h}$	[kW]	21.65	25.56	44.48	59.55	71.99	94.17
Minimum capacity:	P_{min}	[kW]	10.26	12.06	21.11	27.93	34.20	44.64
Electric power consumption*:								
At rated heating capacity:	$e_{l,max}$	[kW]	0.77	1.25	1.41	1.70	3.07	3.20
At minimal capacity:	$e_{l,min}$	[kW]	0.77	1.25	1.41	1.70	3.07	3.20
In standby mode:	$e_{l,sb}$	[kW]	0.02	0.02	0.02	0.02	0.02	0.02
Useful efficiency:								
Useful efficiency at rated heating capacity*:	η_{nom}	[%]	81.9	80.8	81.7	81.3	81.9	81.9
Useful efficiency at minimum capacity*:	η_{pl}	[%]	77.7	76.2	77.6	76.2	77.8	77.7
Other items:								
Envelope loss factor:	F_{env}	[%]	0	0	0	0	0	0
Ignition burner power consumption*:	P_{ign}	[kW]	0.02	0.02	0.02	0.02	0.02	0.02
Emissions of nitrogen oxides [input energy (GCV)]*:	NO_x	[mg/kWh]	-	-	-	-	-	-
Emission efficiency:	$h_{s,flow}$	[%]	94.8	95.2	94.7	95.2	94.5	94.0
ErP seasonal space heating energy efficiency:	$\eta_{s,h}$	[%]	72.1	72.2	72.2	72.1	72.5	72.1
Thermal efficiency at rated heating capacity [NCV]:	η	[%]	91.0	89.7	90.8	90.2	91.0	91.0
* not required for electric warm air heaters								
Contact details:	Nortek Global HVAC Belgium NV; +32 (0)56 52 95 11; J&M Sabbestraat 130/A000; B-8930							