


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

 Information to identify the model(s) to which the information relates to: **UDSA-4E**

B1 warm air heater:		[NO]													
C2 warm air heater:		[NO]													
C4 warm air heater:		[NO]													
Type of fuel:		[GAS: G20/G25]													
Model:			<b>011-4E</b>	<b>015-4E</b>	<b>020-4E</b>	<b>025-4E</b>	<b>032-4E</b>	<b>035-4E</b>	<b>043-4E</b>	<b>050-4E</b>	<b>055-4E</b>	<b>064-4E</b>	<b>073-4E</b>	<b>085-4E</b>	<b>100-4E</b>
Item:	Symbol:	Unit:													
Capacity:															
Rated heating capacity:	$P_{rated,h}$	[kW]	11.13	14.77	18.35	25.75	31.52	35.06	43.01	49.47	55.69	65.45	72.91	86.58	98.78
Minimum capacity:	$P_{min}$	[kW]	5.44	8.83	8.96	12.64	15.23	17.25	21.14	24.31	27.31	31.99	35.04	42.74	48.39
Electric power consumption*:															
At rated heating capacity:	$e_{l,max}$	[kW]	0.13	0.13	0.13	0.24	0.24	0.27	0.27	0.48	0.48	0.48	0.75	0.75	0.94
At minimal capacity:	$e_{l,min}$	[kW]	0.13	0.13	0.13	0.24	0.24	0.27	0.27	0.48	0.48	0.48	0.75	0.75	0.94
In standby mode:	$e_{l,sb}$	[kW]	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Useful efficiency:															
Useful efficiency at rated heating capacity*:	$\eta_{nom}$	[%]	84.2	83.8	83.4	83.6	83.5	83.7	84.6	84.4	84.3	84.2	82.8	84.3	84.2
Useful efficiency at minimum capacity*:	$\eta_{pl}$	[%]	82.4	81.8	81.4	82.0	80.7	82.4	83.1	82.9	82.7	82.3	79.6	83.2	82.5
Other items:															
Envelope loss factor:	$F_{env}$	[%]	0	0	0	0	0	0	0	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Emissions of nitrogen oxides [input energy (GCV)]*:	$NO_x$	[mg/kWh]	89.1	98.0	97.5	93.3	94.3	98.6	97.2	94.5	90.1	92.9	91.6	97.1	99.8
Emission efficiency:	$h_{s,flow}$	[%]	93.9	92.9	93.9	93.9	93.9	94.4	94.6	94.6	94.6	94.6	94.8	94.6	94.6
ErP seasonal space heating energy efficiency:	$\eta_{s,h}$	[%]	74.5	72.8	74.4	74.8	74.0	75.8	76.9	76.7	76.6	76.4	74.2	77.2	76.7
Thermal efficiency at rated heating capacity [NCV]:	$\eta$	[%]	93.5	93.5	92.7	93.0	92.7	92.9	93.9	93.6	93.8	93.5	93.9	94.3	93.7
* not required for electric warm air heaters															
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