

# 11 ENERGY CLASSIFICATION

## 11.1 TECHNICAL PARAMETERS FOR MIXED BOILERS (IN COMPLIANCE WITH REGULATION 811/2013)

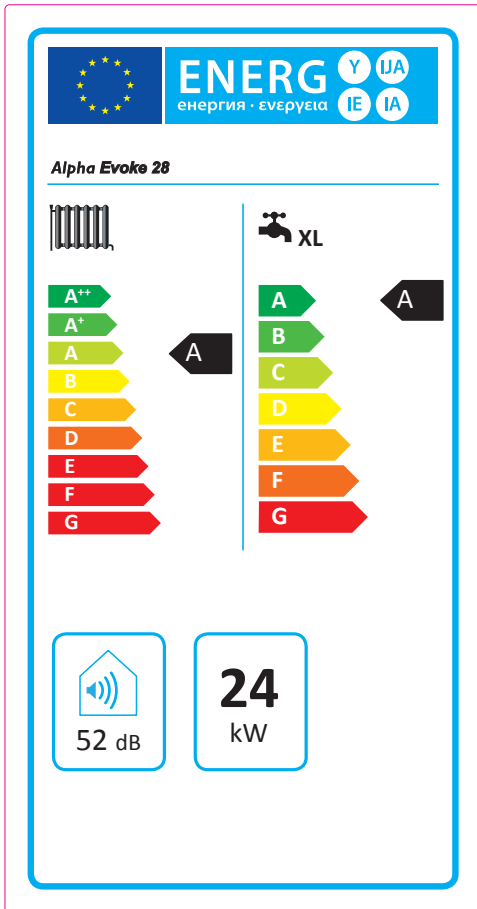
The values in the following tables refer to the maximum heating output.

Model(s):				Evoke 28							
Condensing boiler:				YES							
Low-temperature boiler:				NO							
B1 boiler:				NO							
Cogeneration space heater:				NO			Equipped with a supplementary heater:	NO			
Combination heater:				YES							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output	$P_n$	24	kW	Seasonal space heating energy efficiency	$\eta_s$	93	%				
For boiler space heaters and boiler combination heaters: useful heat output				For boiler space heaters and boiler combination heaters: Useful efficiency							
At rated heat output and high temperature regime (*)	$P_4$	24.0	kW	At rated heat output and high temperature regime (*)	$\eta_4$	88.1	%				
At 30% of rated heat output and low temperature regime (**)	$P_1$	8.0	kW	At 30% of rated heat output and low temperature regime (**)	$\eta_1$	97.6	%				
Auxiliary electricity consumption				Other items							
At full load	$e_{l_{max}}$	0.010	kW	Standby heat loss	$P_{stby}$	0.057	kW				
At part load	$e_{l_{min}}$	0.005	kW	Ignition burner power consumption	$P_{ign}$	0.000	kW				
In standby mode	$P_{SB}$	0.002	kW	Emissions of nitrogen oxides	$NO_x$	35	mg / kWh				
For combination heaters:											
Declared load profile			XL		Water heating energy efficiency			$\eta_{WH}$	87	%	
Daily electricity consumption			$Q_{elec}$	0.122	kWh	Daily fuel consumption			$Q_{fuel}$	22.406	kWh
Contact details		Alpha Therm Ltd., Nepicar House, Wrotham Heath, Kent. TN15 7RS									
(*) 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.											

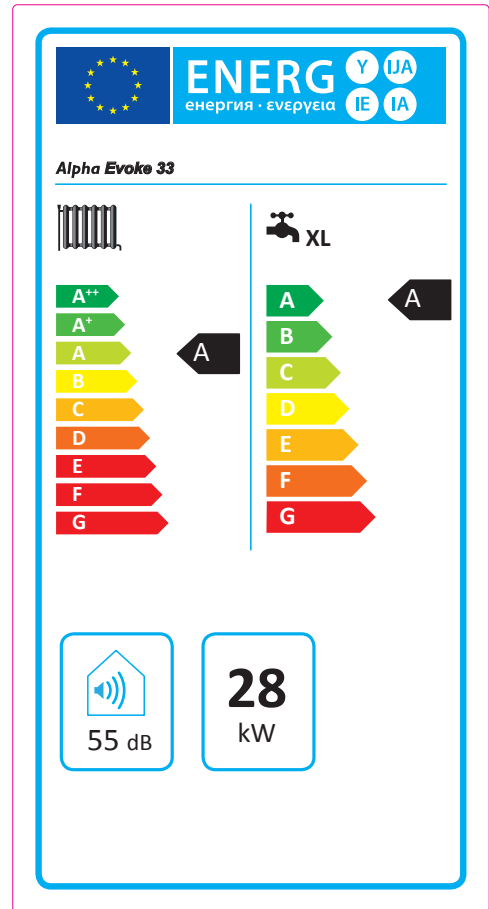
Model(s):				Evoke 33							
Condensing boiler:				YES							
Low-temperature boiler:				NO							
B1 boiler:				NO							
Cogeneration space heater:				NO			Equipped with a supplementary heater:	NO			
Combination heater:				YES							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit				
Rated heat output	$P_n$	28	kW	Seasonal space heating energy efficiency	$\eta_s$	93	%				
For boiler space heaters and boiler combination heaters: useful heat output				For boiler space heaters and boiler combination heaters: Useful efficiency							
At rated heat output and high temperature regime (*)	$P_4$	28.0	kW	At rated heat output and high temperature regime (*)	$\eta_4$	87.9	%				
At 30% of rated heat output and low temperature regime (**)	$P_1$	9.3	kW	At 30% of rated heat output and low temperature regime (**)	$\eta_1$	97.6	%				
Auxiliary electricity consumption				Other items							
At full load	$e_{l_{max}}$	0.012	kW	Standby heat loss	$P_{stby}$	0.057	kW				
At part load	$e_{l_{min}}$	0.006	kW	Ignition burner power consumption	$P_{ign}$	0.000	kW				
In standby mode	$P_{SB}$	0.002	kW	Emissions of nitrogen oxides	$NO_x$	30	mg / kWh				
For combination heaters:											
Declared load profile			XL		Water heating energy efficiency			$\eta_{WH}$	87	%	
Daily electricity consumption			$Q_{elec}$	0.131	kWh	Daily fuel consumption			$Q_{fuel}$	22.362	kWh
Contact details		Alpha Therm Ltd., Nepicar House, Wrotham Heath, Kent. TN15 7RS									
(*) 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.											

11.2 PRODUCT DATA SHEET (IN COMPLIANCE WITH REGULATION 811/2013)

Evoke 28



Evoke 33



Parameter	value
Yearly energy consumption for the heating function (QHE)	1.5 GJ
Yearly electricity consumption for the domestic hot water function (AEC)	27 kWh
Yearly fuel consumption for the domestic hot water function (AFC)	17 GJ
Seasonal room heating yield ( $\eta_s$ )	93 %
Domestic hot water production yield ( $\eta_{wh}$ )	87 %

Parameter	value
Yearly energy consumption for the heating function (QHE)	1.5 GJ
Yearly electricity consumption for the domestic hot water function (AEC)	29 kWh
Yearly fuel consumption for the domestic hot water function (AFC)	17 GJ
Seasonal room heating yield ( $\eta_s$ )	93 %
Domestic hot water production yield ( $\eta_{wh}$ )	87 %