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):			E-Tec 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	η	93	%	
For boiler space heaters and boiler combination heaters: used 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 (*)	η₄	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 (**)	η,	97.6	%	
Auxiliary electricity consumption				Other items				
At full load	el _{max}	0.010	kW	Standby heat loss	P _{stby}	0.057	kW	
At part load	el _{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	η _{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	temperat	ure at hea	ater inlet and 80°C feed temperature at I	neater out	let.		

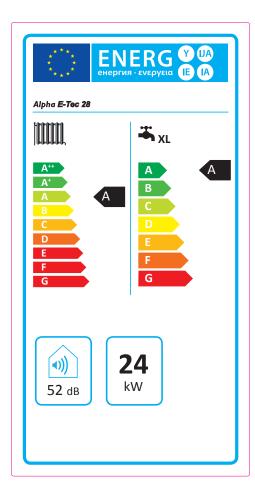
(*) High temperature regime means 60°C return temperature at heater inlet and 80°C feed temperature at heater outlet. (**) Low temperature means for condensing boilers 30°C, for low-temperature boilers 37°C and for other heaters 50°C return temperature.

Model(s):			E-Tec 33	E-Tec 33					
Condensing boiler:			YES						
Low-temperature boiler:			NO						
B1 boiler:			NO						
Cogeneration space heater:			NO	Equipped with a supplementary heater	r:		NO		
Combination heater:			YES						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit		
Rated heat output	P _n	28	kW	Seasonal space heating energy efficiency	η_s	93	%		
For boiler space heaters and boiler combination heaters: usef heat output			useful	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 (*)	η₄	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 (**)	η,	97.6	%		
Auxiliary electricity consumption				Other items					
At full load	el _{max}	0.012	kW	Standby heat loss	P _{stby}	0.057	kW		
At part load	el _{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	η _{wH}	87	%		
Daily electricity consumption	Q _{elec}	0.131	kWh	Daily fuel consumption	Q _{fuel}	22.362	kWh		
Contact details		erm Ltd.,	Nepicar I	House, Wrotham Heath, Kent. TN15 7R	3				

L^(**) Low temperature means for condensing boilers 30°C, for low-temperature boilers 37°C and for other heaters 50°C return temperature.

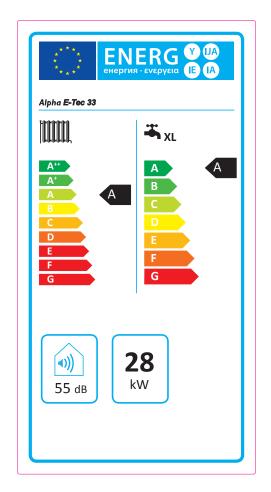
11.2 PRODUCT DATA SHEET (IN COMPLIANCE WITH REGULATION 811/2013)

E-Tec 28



Parameter	value	
Yearly energy consumption for the hea- ting 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 (η s)	93 %	
Domestic hot water production yield (η wh)	87 %	

E-Tec 33



Parameter	value	
Yearly energy consumption for the hea- ting 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 (ηs)	93 %	
Domestic hot water production yield (ηwh)	87 %	