

# 11 ENERGY CLASSIFICATION

## 11.1 TECHNICAL PARAMETERS FOR MIXED BOILERS (IN COMPLIANCE WITH REGULATION 813/2013)

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

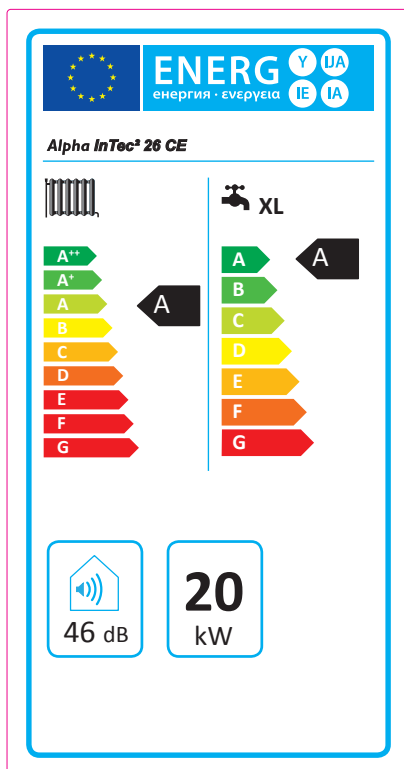
Model(s):				InTec <sup>2</sup> 26CE						
Condensing boiler:				YES						
Low-temperature boiler:				NO						
B1 boiler:				NO						
Cogeneration space heater:				NO			Equipped with a supplementary heater:	NO		
Combination heater:				YES						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit			
Rated heat output	$P_n$	20	kW	Seasonal space heating energy efficiency	$\eta_s$	92	%			
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 (*)	$P_4$	20.0	kW	At rated heat output and high temperature regime (*)	$\eta_4$	87.7	%			
At 30% of rated heat output and low temperature regime (**)	$P_1$	6.6	kW	At 30% of rated heat output and low temperature regime (**)	$\eta_1$	97.4	%			
Auxiliary electricity consumption				Other items						
At full load	$e_{l_{max}}$	0.027	kW	Standby heat loss	$P_{stby}$	0.051	kW			
At part load	$e_{l_{min}}$	0.014	kW	Ignition burner power consumption	$P_{ign}$	0.000	kW			
In standby mode	$P_{SB}$	0.005	kW	Emissions of nitrogen oxides	$NO_x$	18	mg / kWh			
For combination heaters:										
Declared load profile			XL		Water heating energy efficiency		$\eta_{WH}$	86	%	
Daily electricity consumption			$Q_{elec}$	0.231	kWh	Daily fuel consumption		$Q_{fuel}$	22.300	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):				InTec <sup>2</sup> 30CE						
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	$\eta_s$	92	%			
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 (*)	$\eta_4$	87.8	%			
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 (**)	$\eta_1$	97.4	%			
Auxiliary electricity consumption				Other items						
At full load	$e_{l_{max}}$	0.037	kW	Standby heat loss	$P_{stby}$	0.051	kW			
At part load	$e_{l_{min}}$	0.015	kW	Ignition burner power consumption	$P_{ign}$	0.000	kW			
In standby mode	$P_{SB}$	0.005	kW	Emissions of nitrogen oxides	$NO_x$	18	mg / kWh			
For combination heaters:										
Declared load profile			XL		Water heating energy efficiency		$\eta_{WH}$	86	%	
Daily electricity consumption			$Q_{elec}$	0.227	kWh	Daily fuel consumption		$Q_{fuel}$	22.473	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):				InTec <sup>2</sup> 35CE				
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 (*)	$\eta_4$	88	%	
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	$e_{l_{max}}$	0.048	kW	Standby heat loss	$P_{stby}$	0.051	kW	
At part load	$e_{l_{min}}$	0.015	kW	Ignition burner power consumption	$P_{ign}$	0.000	kW	
In standby mode	$P_{SB}$	0.004	kW	Emissions of nitrogen oxides	$NO_x$	20	mg / kWh	
For combination heaters:								
Declared load profile		XXL		Water heating energy efficiency	$\eta_{WH}$	85	%	
Daily electricity consumption		$Q_{elec}$	0.222 kWh	Daily fuel consumption	$Q_{fuel}$	28.449	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.								

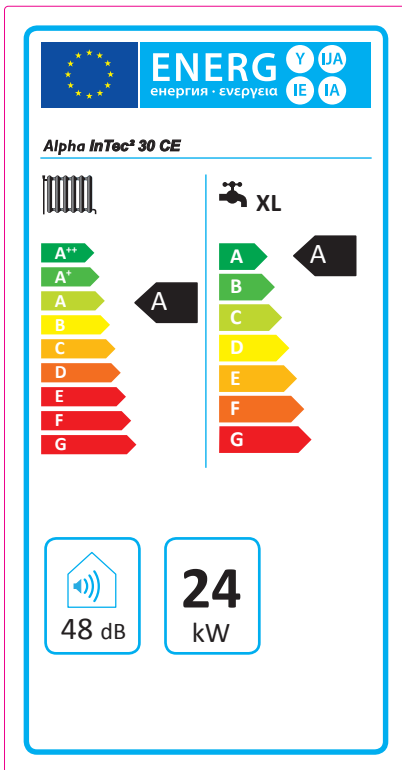
## 11.2 PRODUCT DATA SHEET (IN COMPLIANCE WITH REGULATION 811/2013)

### InTec<sup>2</sup> 26CE



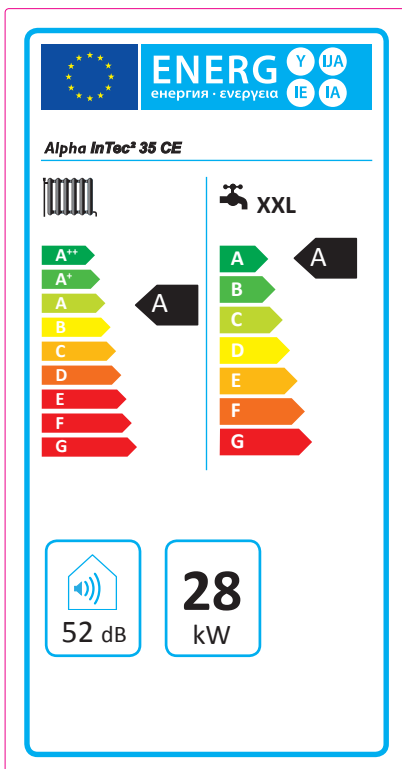
Parameter	Value
Yearly energy consumption for the heating function (QHE)	62.5 GJ
Yearly electricity consumption for the domestic hot water function (AEC)	51 kWh
Yearly fuel consumption for the domestic hot water function (AFC)	17 GJ
Seasonal room heating yield ( $\eta_s$ )	92 %
Domestic hot water production yield ( $\eta_{wh}$ )	86 %

## InTec<sup>2</sup> 30CE



Parameter	Value
Yearly energy consumption for the heating function (QHE)	74.9 GJ
Yearly electricity consumption for the domestic hot water function (AEC)	50 kWh
Yearly fuel consumption for the domestic hot water function (AFC)	17 GJ
Seasonal room heating yield ( $\eta_s$ )	92 %
Domestic hot water production yield ( $\eta_{wh}$ )	86 %

## InTec<sup>2</sup> 35CE



Parameter	Value
Yearly energy consumption for the heating function (QHE)	87.2 GJ
Yearly electricity consumption for the domestic hot water function (AEC)	49 kWh
Yearly fuel consumption for the domestic hot water function (AFC)	22 GJ
Seasonal room heating yield ( $\eta_s$ )	93 %
Domestic hot water production yield ( $\eta_{wh}$ )	85 %