



TECHNICAL DATA

Range: AVANT KW

Twin wall metal chimney with insulation

Designations:	Model	Standard	Designation	Diameters
- Without seal:	KW	EN 1856-1	T600 N1 W V2 L50040 G(50)	80-300
	KX	EN 1856-1	T600 N1 W Vm L20040 G(50)	80-300
CE Certificate: 0099/CPR/A71/0105				
- With seal:	KW	EN 1856-1	T200 P1 W V2 L50040 O(10)	80-300
	KX	EN 1856-1	T200 P1 W Vm L20040 O(10)	80-300
CE Certificate: 0099/CPR/A71/0105				
Application:	<ul style="list-style-type: none"> ▪ Exhaust flue gas: <ul style="list-style-type: none"> - Boilers - Stoves - Open and close fire - Ovens ▪ Extraction of industrial kitchen hoods (EI 30 according to CTE) ▪ Air duct, ventilation 			
Characteristics:				
Maximum use temperature	Without seal → 600 °C With seal → 200 °C			
Pressure level	Without seal → Negative pressure (natural draught) With seal → Positive pressure (until 200 Pa)			
Condensate resistance	KW → Wet operating conditions (for condensing boilers) KX → Dry operating conditions			
Corrosion resistance	KW → V2 (very good) KX → Vm (good)			
Fuel	KW → Gas and gas oil (with condensation), solids KX → Gas and gas oil (without condensation)			
Sootfire resistance	Without seal → Yes (G Designation) With seal → No (O Designation)			
Minimum distance to combustible materials	Depending on designation 50 mm → For solids fuel installations [G(50)] 10 mm → For gas or gas oil fuel installations with flue gas temperature less than 200 °C [O(10)]			
Placement	Interior and exterior			
Nominal diameters	Dn(inner)/Dn(outer): 80/130, 100/150, 125/175, 150/200, 175/225, 200/250, 250/300 and 300/350 mm			
Inner/outer wall diameters	D(inner)/D(outer): 80/131, 101/151, 126/176, 151/201, 176/226, 201/251, 251/301 and 301/351 mm			
Inner wall material	KW → L50 → Stainless steel AISI 316L (1.4404) KX → L20 → Stainless steel AISI 304 (1.4301)			
Inner wall thickness	0,4 mm			
Outer wall material	Stainless steel AISI 304 (1.4301)			
Outer wall thickness	Dn: 80/130 to 150/200 → 0,4 mm Dn: 175/225 to 300/350 → 0,5 mm			
Insulation	Rock wool: >170 kg/m ³ density, 25 mm thickness			
Seal (optional)	Two lips. Made of silicone Placed on the external side of the inner pipe			
Compressive strength	Maximum load: 12 m			

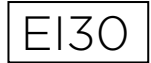


Figure 1



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Tensile strength	Maximum load: 12 m
Support compressive strength	Maximum load: 12 m
Lateral strength (wind load resistance)	Maximum distance between wall supports: 3 m Free length from the last support: 1,5 m
Non-vertical installation	45°, maximum distance between wall supports: 3 m 90°, maximum distance between wall supports: 2 m
Freeze-thaw resistance	Resistant to freeze and thaw cycles
Flow resistance: straight sections	Roughness: 1 mm [according to EN 13384-1]
Flow resistance: fittings	According to EN 13384-1
Thermal resistance	Dn 80/130: 0,27 m ² K/W Dn 300/350: 0,31 m ² K/W
Fire resistance	EI 30 (ve i-o) [according to EN 13501-3] EI 30 (ho i-o) [according to EN 13501-3]
Fire reaction	Class A1
Support installation	Base support each 12 m (axial load) Wall support each 3 m (lateral load) Adjustable wall separation: 50 - 80 mm
Surface temperature	> 70 °C, when flue gas temperature is 600 °C. - 70 °C, when flue gas temperature is 300 °C, calculated according to EN 1859. The chimney shall be protected from touching where accidental human contact is possible with flue gas temperature superior than 250 °C.
For Matt Black finishing (Only model KWMN)	Color: Matt black. Surface: Textured. Temperature resistance of the coating: 200 °C. Pieces in contact with the boiler (boiler adaptors) are coated with heat resistance powder coating. Temperature resistance of the heat resistance coating: 500 °C. Placement: Interior and exterior.
Another	Fast assembly, no tools necessary. Components must be installed with end male on the top and end female in the bottom. See figure 1. The joint between two elements must be fixed with the clamp. Elements cannot be cut. Adjustable elements are available.