

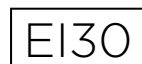


## TECHNICAL DATA

### Range: AVANT KA - KC

### Twin wall metal chimney with insulation

Designation:	Model	Standard	Designation	Diameters	
- Without seal:	KA	EN 1856-1	T600 N1 W Vm L20040 G(60)	80-300	
			T600 N1 W Vm L20050 G(90)	350-450	
			T600 N1 W Vm L20050 G(120)	500-600	
			T600 N1 W Vm L20060 G(240)	>600	
	KC	EN 1856-1	T600 N1 W V2 L50040 G(60)	80-300	
			T600 N1 W V2 L50050 G(90)	350-450	
			T600 N1 W V2 L50050 G(120)	500-600	
			T600 N1 W V2 L50060 G(240)	>600	
	CE Certificate: 0099/CPR/A71/0037				
	- With seal:	KA	EN 1856-1	T200 P1 W Vm L20040 O(10)	80-300
				T200 P1 W Vm L20050 O(15)	350-450
				T200 P1 W Vm L20050 O(20)	500-600
T200 P1 W Vm L20060 O(40)				>600	
KC		EN 1856-1	T200 P1 W V2 L50040 O(10)	80-300	
			T200 P1 W V2 L50050 O(15)	350-450	
			T200 P1 W V2 L50050 O(20)	500-600	
			T200 P1 W V2 L50060 O(40)	>600	
CE Certificate: 0099/CPR/A71/0037					
Application:		<ul style="list-style-type: none"> <li>▪ Exhaust flue gas:               <ul style="list-style-type: none"> <li>- Boilers</li> <li>- Stoves</li> <li>- Open and close fire</li> <li>- Ovens</li> </ul> </li> <li>▪ Extraction of industrial kitchen hoods (EI 30 according to CTE)</li> <li>▪ Air duct, ventilation.</li> </ul>			
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	KA → Dry operating conditions KC → Wet operating conditions (for condensing boilers)				
Corrosion resistance	KA → Vm (good) KC → V2 (very good)				
Fuel	KA → Gas and gas oil (no condensing) KC → Gas and gas oil (condensing), solids				
Sootfire resistance	Without seal → Yes (G designation) With seal → No (O designation)				
Minimum distance to combustible materials	Depending on designation and diameter For solids fuel installations [G(xx)] <ul style="list-style-type: none"> <li>Ø80 to Ø300: 60 mm</li> <li>Ø350 to Ø450: 90 mm</li> <li>Ø500 to Ø600: 120 mm</li> <li>Ø &gt; 600: 240 mm</li> </ul> For gas or gas oil fuel installations with flue gas temperature less than 200 °C [O(xx)] <ul style="list-style-type: none"> <li>Ø80 to Ø300: 10 mm</li> <li>Ø350 to Ø450: 15 mm</li> <li>Ø500 to Ø600: 20 mm</li> <li>Ø &gt; 600: 40 mm</li> </ul>				



FEMALE

Figure 1



## TECHNICAL DATA

### Range: AVANT KA - KC

### Twin wall metal chimney with insulation

Placement	Interior and exterior
Nominal diameters	Dn(inner)/(outer): 80/130, 100/150, 125/175, 150/200, 175/225, 200/250, 250/300, 300/350, 350/400, 400/450, 450/500, 500/550, 550/600, 600/650, 650/700, 700/750, 750/800 and 800/850 mm
Diameters	D(inner)/(outer): 80/131, 101/151, 126/176, 151/201, 176/226, 201/251, 251/301, 301/351, 351/400, 400/450, 450/500, 500/550, 550/600, 600/650, 650/700, 700/750, 750/800 and 800/850 mm
Inner wall material	KA → L20 → Stainless steel AISI 304 (1.4301) KC → L50 → Stainless steel AISI 316L (1.4404)
Outer wall material	Stainless steel AISI 304 (1.4301)
Thickness	Ø80 to Ø200: 0,4 mm Ø225 to Ø600: 0,5 mm Ø > Ø600: 0,6 mm
Insulation	Rock wool: >170 kg/m <sup>3</sup> density, 25 mm thickness
Seal	Two lips. Made of silicone Placed on the external side of the inner pipe
Compressive strength	Maximum load: 12 m
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 <sup>2</sup> K/W Dn 300/350: 0,31 m <sup>2</sup> K/W Dn 700/750: 0,32 m <sup>2</sup> 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 (Outer wall)	> 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 for flue gas temperature up to 250 °C.
For Black finishing (Only model KC_N)	Color: Black RAL 9004. Surface: Smooth. 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 locking band. Elements cannot be cut. Adjustable elements are available.