

**TECHNICAL DATA**

**Range: AVANT KA-KC**

**Twin wall metal chimney with insulation**



MALE



FEMALE

Figure 1

Designations:	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 L50040 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:	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> Air duct, ventilation.			
<b>Characteristics:</b>				
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 With seal → No			
Minimum distance to combustible materials	Depending on designation and diameter G(xx) O(xx) (xx) → distance in millimeters			

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Placement	Interior and exterior
Nominal diameters	Dn(int.)/Dn(ext.): 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 y 700/750
Diameters	D(int.)/D(ext.): 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 y 700/750
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 a Ø300: 0,4 mm Ø350 a Ø600: 0,5 mm Ø > Ø600: 0,6 mm
Insulation	Rock wool: 128 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
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	No performance determined
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.
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.