

**TECHNICAL
DATA**
System chimney. Range: AVANT KE - KG
Twin wall metal chimney with insulation

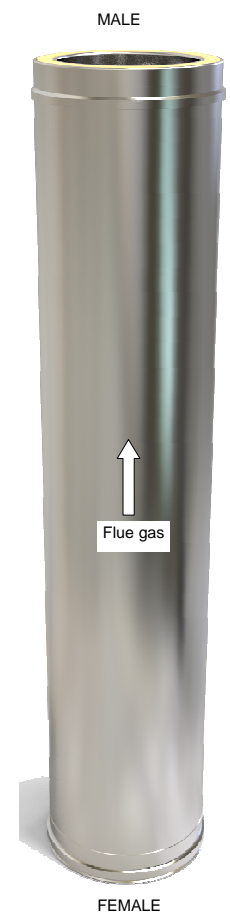
Designations:	Model	Standard	Designation	Diameters
KE	EN 1856-1	T600 H2 W Vm L20040 O(60)	80-300	
		T600 H2 W Vm L20050 O(90)	350-450	
		T600 H2 W Vm L20050 O(120)	500-600	
		T600 H2 W Vm L20060 O(240)	>600	
KG	EN 1856-1	T600 H2 W V2 L50040 O(60)	80-300	
		T600 H2 W V2 L50050 O(90)	350-450	
		T600 H2 W V2 L50050 O(120)	500-600	
		T600 H2 W V2 L50060 O(240)	>600	

Certificate number CE: 0099/CPD/A71/0037

 Application: Exhaust flue gas:
 ■ Engines

Characteristics:

Maximum use temperature	600 °C
Pressure level	Positive pressure up to 5000 Pa
Condensate resistance	Wet operating conditions
Fuel	Gas, gas oil
Sootfire resistance	No
Minimum distance to combustible materials	See designations O → sootfire resistance is not required (xx) → distance in milimeters
Placement	Interior and exterior
Nominal diameters	Dn 80, 100, 125, 150, 175, 200, 250, 300, 350, 400, 450, 500, 550, 600 y 700 mm
Inner/outer wall diameters	81/131, 101/151, 126/176, 151/201, 176/226, 201/251, 251/301, 301/351, 351/401, 401/451, 451/501, 501/551, 551/601, 601/651, 701/751 mm
Inner wall material	KE → L20 → Stainless steel AISI 304 (1.4301) KG → L50 → Stainless steel AISI 316L (1.4404)
Outer wall material	Stainless steel AISI 304 (1.4301)
Thickness	Ø 80 a 300 mm → 0,4 mm Ø 350 a 600 mm → 0,5 mm Ø > 650 mm → 0,6 mm
Insulation	Rock wool: 128 kg/m ³ density, 25 mm thickness
Seal	Refractory sealant resistance up to 1500 °C
Compressive strength	Maximun load: 12 m
Tensile strength	Maximun load: 12 m
Support compressive strength	Maximun load: 12 m
Lateral strength (wind load resistance)	Maximun distance between wall supports: 3 m Free length from the last support: 1,5 m

FEMALE

Figure 1

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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: 0,27 m ² K/W Dn 300: 0,31 m ² K/W Dn 700: 0,32 m ² 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	> 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.
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. Each joint between elements must be installed applying a refractory sealant in accordance with assembly instructions. The joint between two elements must be fixed with the clamp. Elements cannot be cut. Adjustable elements are available.