



TECHNICAL DATA

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 CE: 0099/CPD/A71/0037				
Application:	Exhaust flue gas from engines and generating sets.			
Characteristics:				
Maximum use temperature	600 °C			
Pressure level	Positive pressure up to 5000 Pa			
Condensate resistance	Wet operating conditions			
Corrosion resistance	KE → Vm (good) KG → V2 (very good)			
Fuel	Gas, gas oil			
Sootfire resistance	No			
Minimum distance to combustible materials	Depending on diameters Ø80 to Ø300: 60 mm Ø350 to Ø450: 90 mm Ø500 to Ø600: 120 mm Ø > 600: 240 mm			
Placement	Interior and exterior			
Nominal diameters	Dn(inner)/Dn(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			
Inner/outer wall diameters	D(inner)/D(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	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	Ø80 to Ø300: 0,4 mm Ø350 to Ø600: 0,5 mm Ø > Ø600: 0,6 mm			
Insulation	Rock wool >170 kg/m ³ density, 25 mm thickness			
Seal	Refractory sealant resistance up to 300 °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			
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			

CE
0099

EI30

MALE



FEMALE

Figure 1



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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	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 temperatura (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 with flue gas temperature superior than 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. 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.