

Exhaust gas heat exchanger

CERTECON 80 – 650





Exhaust gas heat exchanger at a glance

Energy Saving with CERTECON

CERTECON Flue gas heat exchangers

An innovative solution for saving energy during operation of the oil- or gas-heated CERTUSS steam generators of the Junior 80 – 400 and Universal 500 – 600 series. Depending on the output level, operating pressure and utilization of the steam generator, the combustion-specific degrees of efficiency increases to up to 98%.

CERTECON Flue gas heat exchangers

are compact with small dimensions are inserted horizontally or vertically in the flue gas flue between the steam generator and exhaust gas stack. At the water end they have to be installed between the boiler feed pump and the steam generator. To a certain extent an additional protection of the heating system in steam generators against deposits and corrosions at residues in the feed water also exists.

CERTECON Flue gas heat exchangers

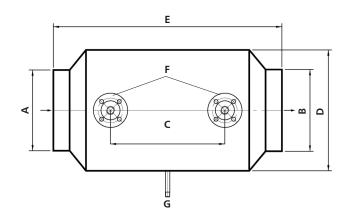
continuously return the gained energy to the steam generators. The burner output is reduced correspondingly. External heat intake is not required.

They are approved solely for the operation with CERTUSS steam generators.

CERTECON Flue gas heat exchangers

have a robust heat exchanger package made of high-quality boiler tubes.

They are adapted optimally to the respective sizes of the CERTUSS steam generators. Depending on the boiler size the flue gas temperature is reduced to 130 °C to 160 °C, whereby the danger of the dew point being underpassed in the exhaust gas stack is avoided.



CERTECON			80 – 120		150 - 200			250 - 650					
CERTUSS Steam generator Type			Junior						Universal				
CL	Type		80	120	150	2	200	250	300	350	400	500	600
Α	Flue gas inlet Ø internal	mm	180		200		250						
В	Flue gas outlet Ø external	mm	178		198		248						
C	Centre-to-centre distance connecting pieces	mm	220		270		350						
D	Outer diameter	mm	250		280		370						
E	Installation length	mm	590			640		740					
F	Nominal width water inlet/outlet PN 100	DN			15			20					
G	Nominal width condensate connection	DN						1/2"					
*	Heat output at full load up to app	rox. kW	0.9	1.5	1.5		4.0	4.0	4.5	5.0	5.5	6.0	7.0
	Connected burner output max.	kW	58	87	109	1	145	182	218	255	291	364	436
	Heating flue gas temperature max.	°C						350					
	Weight without water filling	kg	24 1.49		33		66						
	Pressure equipment volume V	I.			3.16			5.66					
* *	Operating overpressure PS	bar	10 - 40		10 - 13	16 - 32 40		10 - 32				40	
	Product PS x V	max.	59.6		41.08	101.12	126.4	181.12			226.4		
	PED 2014/68/EU, Annex II, Diagram 5, Category			GIP		II IV		II			IV		

^{*} The values can deviate depending on the operating pressure, connected burner output and degree of utilization of the steam generator.

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^{**} Select the operating overpressure as at the associated steam generator.