



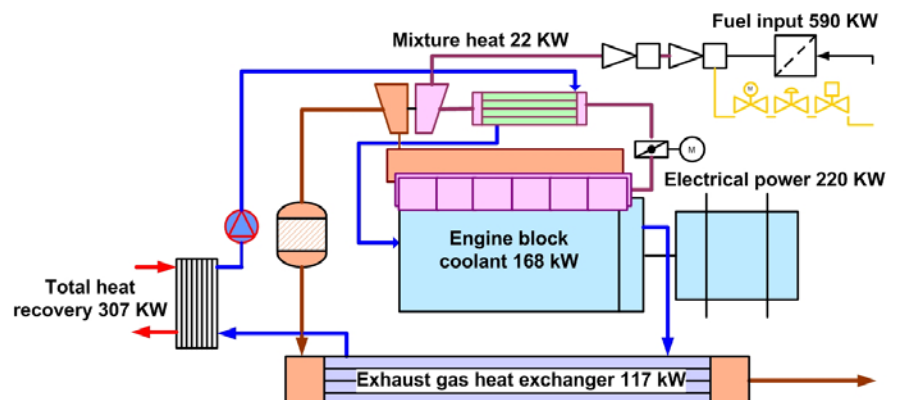
Specifications	Natural gas CHP	FMB-270-GSMK
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Issue: 06.2010\_001 data sheet

Engine specification		
Manufacturer		SCHMITT ENERTEC
Type		SE-MB-1508-GTA70
Speed	min <sup>-1</sup>	1500
Displacement	Liter	15,08
Number of cylinders		8 / V
Aspiration	Lean burn engine turbocharged and internal mixture cooling	
<b>Generator</b>		400V ~ / 50Hz / synchronous

Performance data		100 %	75 %	50 %
Electrical power ) <sup>1</sup>	kW	220	165	110
Total heat recovery ) <sup>2</sup>	+/- 8% kW	307	247	173
-Exhaust gas heat	+/- 8% kW	117	109	77
-Coolant heat	+/- 8% kW	168	124	88
-Mixture heat	+/- 8% kW	22	15	9
Fuel input	+/- 5% kW	590	460	323
Consumption natural gas (Hu 10,02 kW / Nm <sup>3</sup> )	+/- 5% Nm <sup>3</sup> / h	58,9	45,9	32,2
Electrical efficiency	%	37,3	35,9	34,1
Thermal efficiency	%	52,3	53,7	53,6
Total efficiency	%	89,6	89,6	87,7
CHP coefficient		0,71	0,67	0,64

System parameters		
Flow temperature	max. °C	90
Return temperature	max. °C	70
Gas connection	RP	2"
Heating water connection	DN / PN	2 x 65 / 16
Exhaust gas connection	DN / PN	150 / 6
Air requirement combustion + ventilation	Nm <sup>3</sup> / h	7.252
Noise level with housing	1m distance	70 dB(A)
Main dimensions	L x W x H [m]	3,6 x 1,45 x 2,45
Weight (approx.)	kg	3.600
Gas composition	separate data sheet	



<sup>1</sup> at 50 Hz, U=0,4 KV, pf = 1    <sup>2</sup> at exhaust gas temperature 120°  
 NOx < 500 mg/Nm<sup>3</sup> (Engine adjustment for 250 mg/Nm<sup>3</sup> possible with deviating efficiency), CO < 300 mg/Nm<sup>3</sup>  
 Reference conditions: Combustion air / ambient temperature >+5°C / <+27 °C; Altitude at site <300 m