



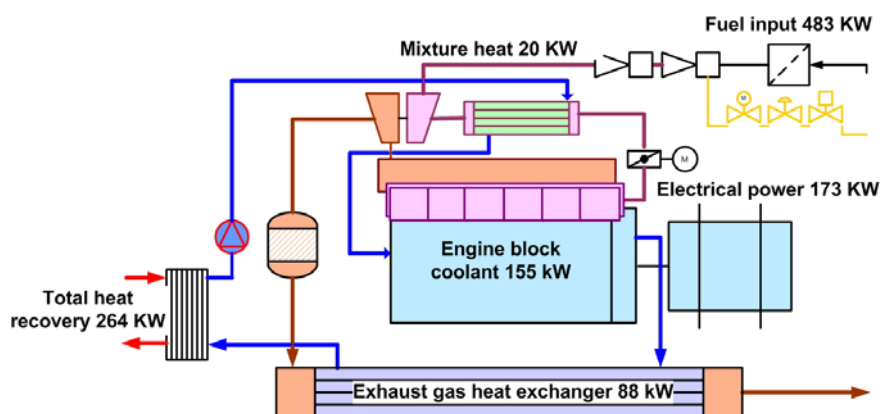
Specifications	Natural gas CHP	FMB-215-GSMK
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Issue: 06.2010_001 data sheet

Engine specification		
Manufacturer		SCHMITT ENERTEC
Type		SE-MB-1206-GTA70
Speed	min ⁻¹	1500
Displacement	Liter	11,97
Number of cylinders		6 / in line
Aspiration	Lean burn engine turbocharged and internal mixture cooling	
Generator		400V ~ / 50Hz / synchronous

Performance data		100 %	75 %	50 %
Electrical power) ¹	kW	173	130	87
Total heat recovery) ²	+/- 8% kW	264	224	171
-Exhaust gas heat	+/- 8% kW	88	74	56
-Coolant heat	+/- 8% kW	155	137	109
-Mixture heat	+/- 8% kW	20	13	6
Fuel input	+/- 5% kWh	483	392	287
Consumption natural gas (Hu 10,02 kWh / Nm ³)	+/- 5% Nm ³	48,2	39,2	28,7
Electrical efficiency		35,8	33,0	30,1
Thermal efficiency		54,6	57,1	59,4
Total efficiency		90,4	90,1	89,5
CHP coefficient		0,66	0,58	0,51

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 ³ / h	5.686
Noise level with housing	1m distance	70 dB(A)
Main dimensions	L x W x H [m]	3,6 x 1,25 x 2,45
Weight (approx.)	kg	3.500
Gas composition	separate data sheet	



)¹ at 50 Hz, U=0,4 KV, pf = 1)² at exhaust gas temperature 120°
 NOx < 500 mg/Nm³ (Engine adjustment for 250 mg/Nm³ possible with deviating efficiency), CO < 300 mg/Nm³
 Reference conditions: Combustion air / ambient temperature >+5°C / <+27 °C; Altitude at site <300 m