



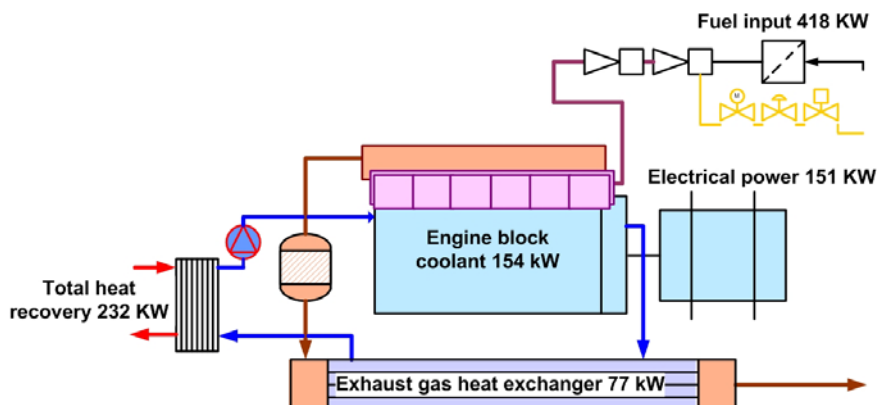
Specifications	Natural gas CHP	FMB-190-GSK
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Issue: 06.2010_001 data sheet

Engine specification		
Manufacturer		SCHMITT ENERTEC
Type		SE-MB-1508-GNA
Speed	min ⁻¹	1500
Displacement	Liter	15,1
Number of cylinders		8 V
Aspiration		Naturally aspirated engine: Lambda = 1
Generator		400V ~ / 50Hz / synchronous

Performance data		100 %	75 %	50 %
Electrical power) ¹	kW	151	113	76
Total heat recovery) ²	+/- 8% kW	232	199	155
-Exhaust gas heat	+/- 8% kW	77	62	44
-Coolant heat	+/- 8% kW	154	138	111
Fuel input	+/- 5% kWh	418	343	254
Consumption natural gas (Hu 10,02 kWh / Nm ³)	+/- 5% Nm ³	41,9	34,3	25,4
Electrical efficiency		36,0	33,0	29,7
Thermal efficiency		55,2	58,1	60,9
Total efficiency		91,2	91,1	90,6
CHP coefficient		0,65	0,57	0,49

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	125 / 6
Air requirement combustion + ventilation	Nm ³ / h	5.345
Noise level with housing	1m distance	70 dB(A)
Main dimensions	L x W x H [m]	3,6 x 1,25 x 2,05
Weight (approx.)	kg	4.600
Gas composition	separate data sheet	



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