



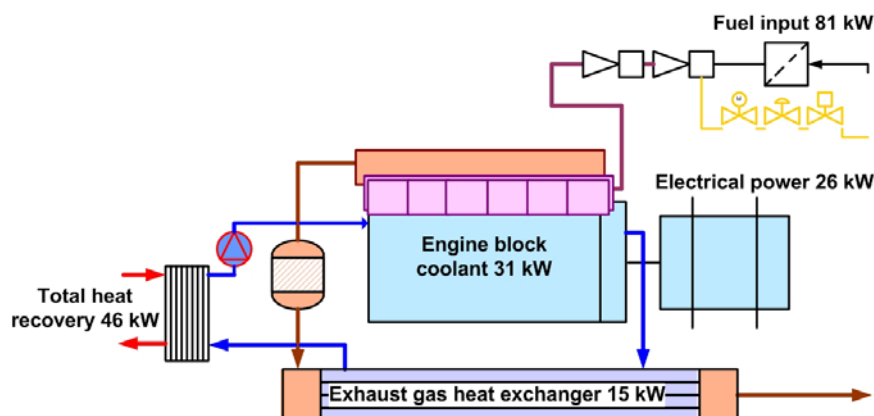
Specifications	Natural gas CHP	FMB-31-GSK
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Issue: 06.2010\_001 data sheet

Engine specification		
Manufacturer		SCHMITT ENERTEC
Type		SE-IV-0303-GNA
Speed	min <sup>-1</sup>	1500
Displacement	Liter	3,0
Number of cylinders		3 / in line
Aspiration	Naturally aspirated engine: Lambda = 1	
Generator	400V ~ / 50Hz / synchronous	

Performance Data		100 %	75 %	50 %
Electrical power ) <sup>1</sup>	kW	26	20	13
Total heat recovery ) <sup>2</sup>	+/- 8% kW	46	35	25
-Exhaust gas heat	+/- 8% kW	15	11	8
-Coolant heat	+/- 8% kW	31	23	17
-Mixture heat	+/- 8% kW	-	-	-
Fuel input	+/- 5% kW	81	62	44
Consumption natural gas (Hu 10,02 kWh / Nm <sup>3</sup> )	+/- 5% Nm <sup>3</sup> / h	8,1	6,2	4,4
Electrical efficiency	%	32	31,4	29,7
Thermal efficiency	%	57,2	56,9	56,8
Total efficiency	%	89,2	87,5	86,5
CHP coefficient		0,56	0,55	0,52

System parameters		
Flow temperature	max. °C	90
Return temperature	max. °C	70
Gas connection	RP	1"
Heating water connection	DN / PN	2 x 40 / 16
Exhaust gas connection	DN / PN	65 / 6
Air requirement combustion + ventilation	Nm <sup>3</sup> / h	1.391
Noise level with housing	1m distance	70 dB(A)
Main dimensions	L x B x H [m]	2,4 x 0,85 x 1,80
Weight (approx.)	kg	1.900
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 < 250 mg/Nm, CO < 300 mg/Nm<sup>3</sup>

Reference conditions: Combustion air / ambient temperature >+5°C / <+27 °C; Altitude at site <300 m