



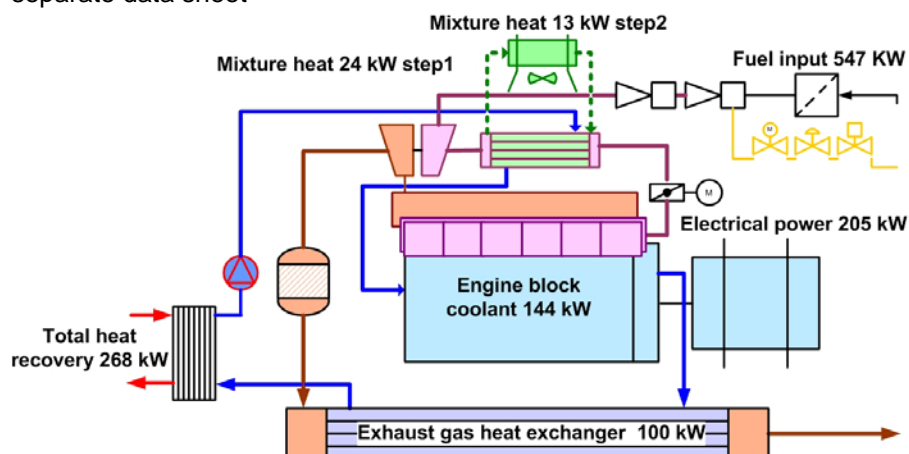
Specifications	Natural gas CHP	FMB-255-GSMK
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Issue: 06.2010_001 data sheet

Engine specification		
Manufacturer		SCHMITT ENERTEC
Type		SE-MB-1206-GTA50
Speed	min ⁻¹	1500
Displacement	Liter	11,97
Number of cylinders		6 / in line
Aspiration	Lean burn engine turbo charged and	Stage 2 mixture cooling
Generator		400V ~ / 50Hz / synchronous

Performance data		100 %	75 %	50 %
Electrical power) ¹	kW	205	154	103
Total heat recovery) ²	+/- 8% kW	268	213	155
-Exhaust gas heat	+/- 8% kW	100	79	57
-Coolant heat	+/- 8% kW	144	115	85
-Mixture heat	+/- 8% kW	24	19	13
Fuel input	+/- 5% kW	547	427	301
Consumption natural gas (Hu 10,02 kWh / Nm ³)	+/- 5% Nm ³ / h	54,6	42,6	30,0
Electrical efficiency	%	37,5	36,0	34,1
Thermal efficiency	%	48,9	49,9	51,4
Total efficiency	%	86,4	85,9	85,5
CHP coefficient		0,77	0,72	0,66

System parameters		
Flow temperature	max. °C	90
Return temperature	max. °C	70
Gas connection	RP	2"
Heating water connection	DN / PN	2x 65 / 16
Exhaust gas connection	DN / PN	150 / 6
Mixture cooling connection	DN / PN	2x 40 / 16
Air requirement combustion + ventilation	Nm ³ / h	5.749
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