



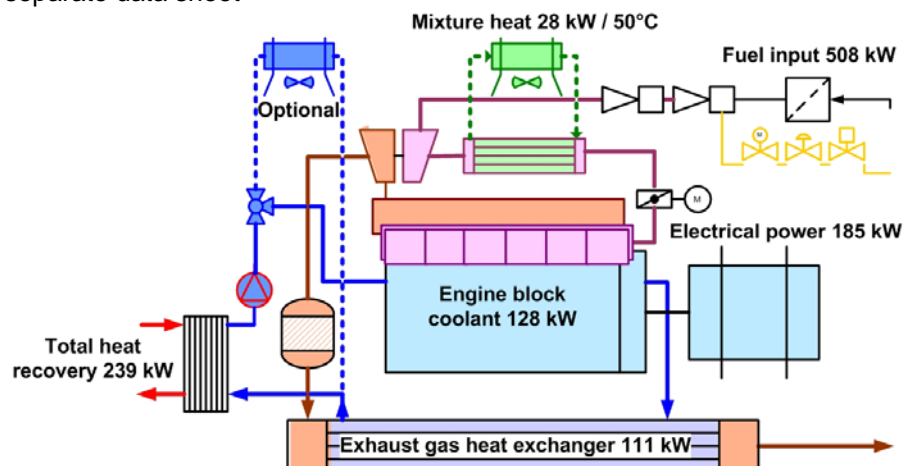
Specifications	Natural gas CHP	FMB-230-GSMK
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Issue: 06.2010_001 data sheet

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 external mixture cooling
Generator	400V ~ / 50Hz / synchronous

Performance data		100 %	75 %	50 %
Electrical power) ¹	kW	185	139	93
Total heat recovery) ²	+/- 8% kW	239	209	163
-Exhaust gas heat	+/- 8% kW	111	93	70
-Coolant heat	+/- 8% kW	128	116	93
-Mixture heat	+/- 8% kW	28	19	13
Fuel input	+/- 5% kW	508	416	308
Consumption natural gas (Hu 10,02 kWh / Nm ³)	+/- 5% Nm ³ / h	50,7	41,5	30,7
Electrical efficiency	%	36,4	33,4	30,2
Thermal efficiency	%	47,0	50,1	52,8
Total efficiency	%	83,4	83,5	83,0
CHP coefficient		0,77	0,66	0,57

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