



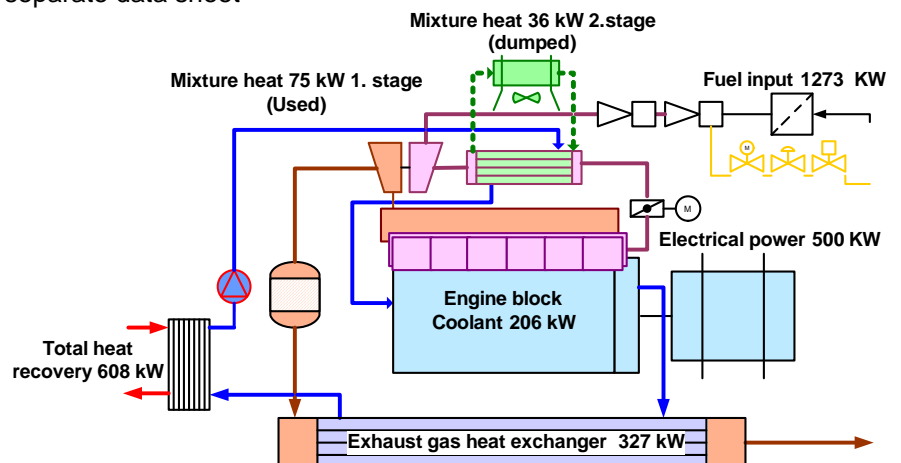
Specifications	Natural gas CHP	FMB-625-GSMK
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Issue: 06.2010_002 data sheet

Engine specification		
Manufacturer		SCHMITT ENERTEC
Type		ENERGIN-2312GCA45
Speed	min ⁻¹	1500
Displacement	Liter	22,6
Number of cylinders		12 / V
Aspiration	Lean burn engine turbocharged and 2-Stage mixture cooling	
Generator		400V ~ / 50Hz / synchronous

Performance data		100 %	75 %	50 %
Electrical power) ¹	kW	500	375	350
Total heat recovery) ²	+/- 8% kW	608	490	367
-Exhaust gas heat	+/- 8% kW	327	254	178
-Coolant heat	+/- 8% kW	206	188	164
-Mixture heat 1. Stage	+/- 8% kW	75	47	25
-Mixture heat 2. Stage	+/- 8% kW	36	25	17
Fuel input	+/- 5% kW	1273	994	712
Consumption natural gas (Hu 10,02 kWh / Nm ³)	+/- 5% Nm ³ / h	127	99,1	71
Electrical efficiency	%	39,3	37,7	35,1
Thermal efficiency	%	47,7	49,3	51,5
Total efficiency	%	87,0	87,0	86,6

System parameters		
Flow temperature	max. °C	90
Return temperature	max. °C	70
Gas connection	DN / PN	50 / 16
Heating water connection	DN / PN	2 x 65 / 16
Exhaust gas connection	DN / PN	250 / 6
Mixture cooling connection	DN / PN	40 / 6
Air requirement combustion + ventilation	Nm ³ / h	17.200
Noise level with housing	1m distance	70 dB(A)
Main dimensions	L x W x H [m]	4,6 x 1,45 x 2,45
Weight (approx.)	kg	7.500
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