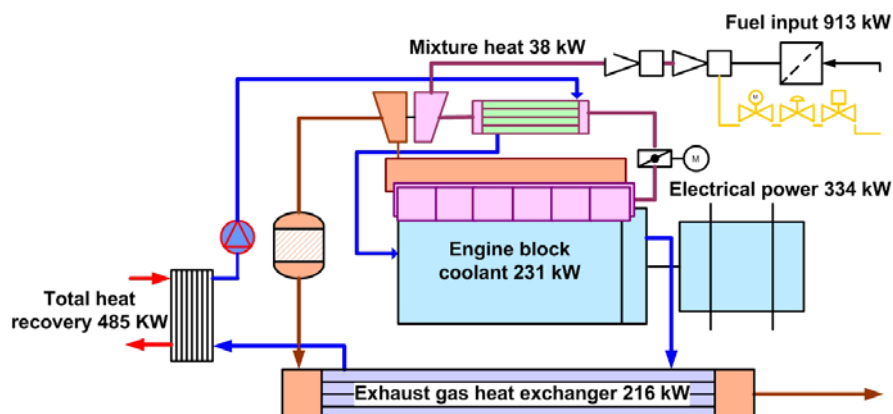




Specifications	Natural gas CP	FMB-410-GSMK
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Issue 06.2010_001 data sheet

Engine specification				
Manufacturer		SCHMITT ENERTEC		
Type		SE-MB-2312-GTA80		
Speed		min ⁻¹	1500	
Displacement		Liter	22,6	
Numbers of cylinders	12 / V			
Aspiration	Lean burn gas engine turbo charged and internal mixture cooling			
Generator	400V ~ / 50Hz / synchronous			
Performance data		100 %	75 %	50 %
Electrical power) ¹	kW	334	251	167
Total heat recover) ²	+/- 8% kW	485	376	269
-Exhaust gas heat	+/- 8% kW	216	167	117
-Coolant heat	+/- 8% kW	231	186	137
-Mixture heat	+/- 8% kW	38	24	16
Fuel input	+/- 5% kW	913	703	491
Consumption natural gas (Hu 10,02 kWh / Nm ³)	+/- 5% Nm ³ / h	91,1	70,2	49,0
Electrical efficiency	%	36,6	35,7	34,0
Thermal efficiency	%	53,2	53,5	54,8
Total efficiency	%	89,8	89,2	88,8
CHP coefficient		0,69	0,67	0,62
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			200 / 6
Air requirement combustion + ventilation	Nm ³ / h			14.200
Noise level with housing	1m distance			70 dB(A)
Main dimensions	L x W x H [m]	4,0 x 1,45 x 2,45		
Weight (approx.)	kg			5.400
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