



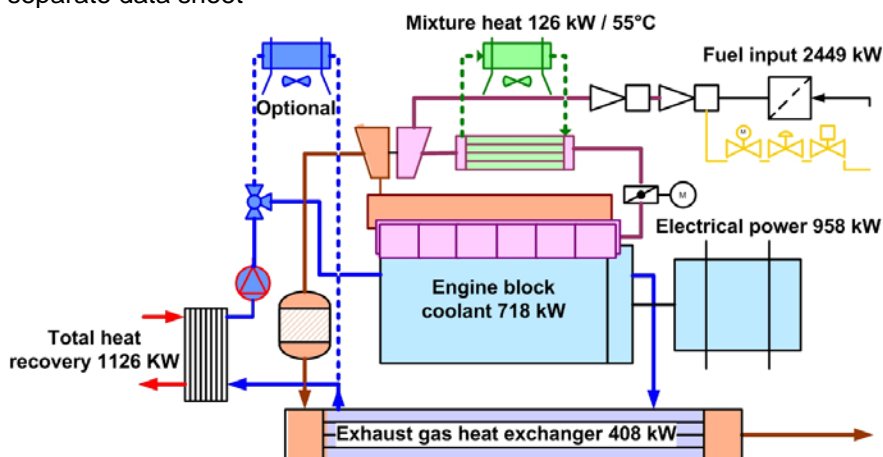
Specifications	Natural gas CHP	FMB-1180-GSMK
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Issue: 06.2010_001 data sheet

Engine specification		
Manufacturer		Guascor
Type		SFGLD 560/55
Speed	min ⁻¹	1500
Displacement	Liter	56,4
Number of cylinders		16 / V
Aspiration	Lean burn engine turbo charged and external mixture cooling	
Generator		400V ~ / 50Hz / synchronous

Performance data		100 %	75 %	50 %
Electrical power) ¹	kW	958	719	479
Total heat recovery) ²	+/- 8% kW	1.126	904	726
-Exhaust gas heat	+/- 8% kW	408	321	240
-Coolant heat	+/- 8% kW	718	583	486
-Mixture heat	+/- 8% kW	126	78	30
Fuel input	+/- 5% kW	2.449	1.882	1.358
Consumption natural gas (Hu 10,02 kWh / Nm ³)	+/- 5% Nm ³ / h	244,3	187,7	135,5
Electrical efficiency	%	39,1	38,2	35,3
Thermal efficiency	%	46,0	48,0	53,4
Total efficiency	%	85,1	86,2	88,7
CHP coefficient		0,85	0,79	0,66

System parameters		
Flow temperature	max. °C	90
Return temperature	max. °C	70
Gas connection	DN / PN	On request
Heating water connection	DN / PN	"
Exhaust gas connection	DN / PN	"
Mixture cooling connection	DN / PN	"
Air requirement combustion + ventilation	Nm ³ / h	26.000
Noise level with housing	1m distance	70 dB(A)
Main dimensions (approx.)	L x W x H [m]	5,7 x 2,20 x 3,0
Weight (approx.)	kg	13.500
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