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Specifications — Natural gas CHP — FMB-275-GSK

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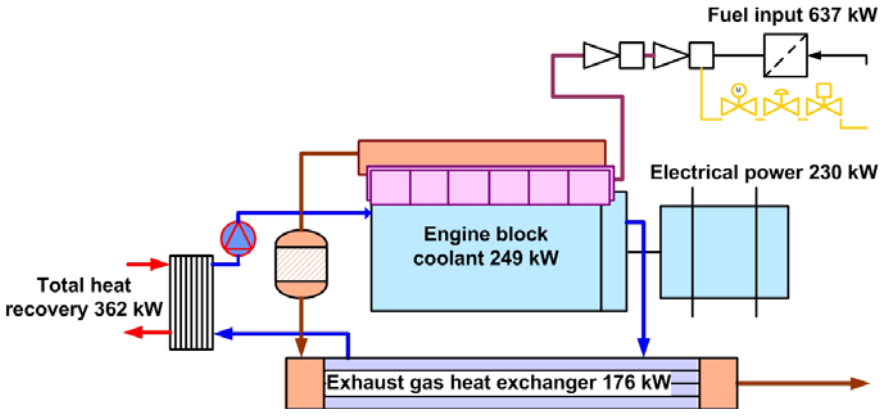
Engine specifications				
Manufacturer				SCHMITT ENERTEC
Type				SE-MB-2312-GNA
Speed		min^{-1}		1500
Displacement		Liter		22,6
Number of cylinders				12 / V
Aspiration				Naturally aspirated engine: Lambda = 1
Generator				400V ~ / 50Hz / synchronous

Performance data		100 %	75 %	50 %
Electrical power)[1]	kW	230	173	115
Total heat recovery)[2]	+/- 8% kW	362	300	241
-Exhaust gas heat	+/- 8% kW	176	152	109
-Coolant water	+/- 8% kW	249	204	171
-Mixture heat	+/- 8% kW	-	-	-
Fuel input	+/- 5% kW	637	520	395
Consumption natural gas (Hu 10,02 kWh / Nm^3)	+/- 5% Nm^3 / h	63,6	51,8	39,4
Electrical efficiency	%	36,1	33,3	29,1
Thermal efficiency	%	56,8	57,8	61,1
Total efficiency	%	92,9	91,1	90,2
CHP coefficient		0,64	0,58	0,48

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
Air requirement combustion + ventilation	Nm^3 / h			6.118
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 < 250 mg/Nm³, CO < 300 mg/Nm³
Reference conditions: Combustion air / ambient temperature >+5°C / <+27 °C; Altitude at site <300 m