



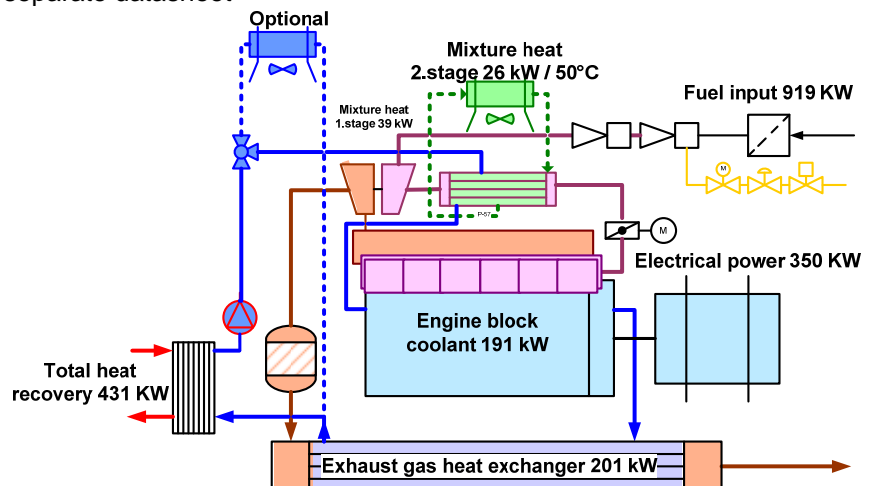
Specifications **Natural gas CHP** **FMB-430-GSMK**

Issue: 07.2010_001 data sheet

Engine specification		
Manufacturer	SCHMITT ENERTEC	
Type	SE-MB-2312-GTA50	
Speed	min ⁻¹	1500
Displacement	Liter	22,6
Number of cylinders	12 / V	
Aspiration	Lean burn engine turbo charged and 2-stage mixture cooling	
Generator	400V ~ / 50Hz / synchronous	

Performance data		100 %	75 %	50 %
Electrical power) ¹	kW	350	263	175
Total heat recovery) ²	+/- 8% kW	431	354	256
-Exhaust gas heat	+/- 8% kW	201	149	104
-Coolant heat	+/- 8% kW	191	178	138
-Mixture heat	+/- 8% kW	39	27	13
Fuel input	+/- 5% kW	919	717	501
Consumption natural gas (Hu 10,02 kWh / Nm ³)	+/- 5% Nm ³ / h	91,7	71,5	50,0
Electrical efficiency	%	38,1	36,7	34,9
Thermal efficiency	%	46,9	49,3	51
Total efficiency	%	85	86	85,9
CHP coefficient		0,81		

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
Mixture cooling connection	DN / PN	2x 40 / 6
Air requirement combustion + ventilation	Nm ³ / h	12.159
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 datasheet	



)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



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