



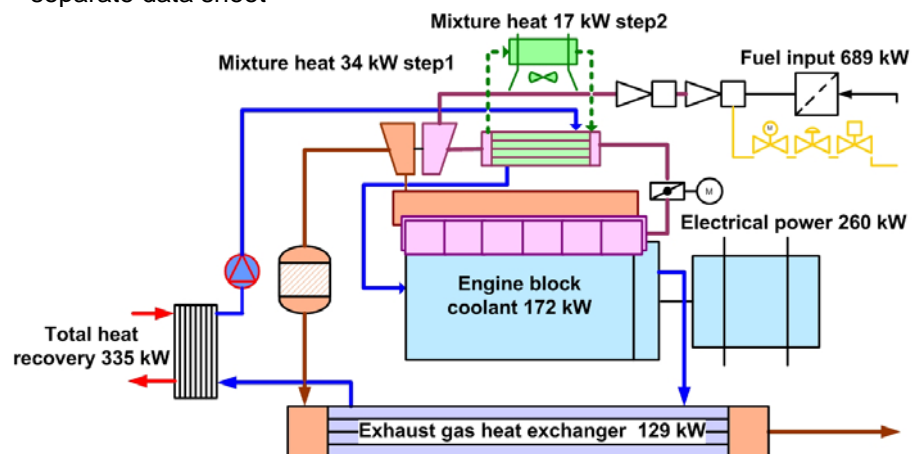
Specifications	Natural gas CHP	FMB-320-GSMK
----------------	-----------------	--------------

Issue: 06.2010\_001 data sheet

Engine specifications		
Manufacturer		SCHMITT ENERTEC
Type		SE-MB-1508-GTA45/70
Speed	min <sup>-1</sup>	1500
Displacement	Liter	15,08
Number of cylinders		8 / V
Aspiration	Lean burn engine turbo charged and 2-stage mixture cooling	
<b>Generator</b>		400V ~ / 50Hz / Synchronous

Performance data		100 %	75 %	50 %
Electrical power ) <sup>1</sup>	kW	260	195	130
Total heat recovery ) <sup>2</sup>	+/- 8% kW	335	266	191
-Exhaust gas heat	+/- 8% kW	129	101	73
-Coolant water	+/- 8% kW	172	145	118
-Mixture heat	+/- 8% kW	34	20	0
Fuel input	+/- 5% kW	689	536	378
Consumption Natural Gas (Hu 10,02 kWh / Nm <sup>3</sup> )	+/- 5% Nm <sup>3</sup> / h	68,8	53,5	37,7
Electrical efficiency	%	37,8	36,2	34,4
Thermal efficiency	%	48,7	49,6	50,5
Total efficiency	%	86,5	86	84,9
CHP coefficient		0,78	0,73	0,68

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
Mixture cooling connection	DN / PN	2x 40 / 16
Air requirement combustion + ventilation	Nm <sup>3</sup> / h	8.170
Noise level with housing	1m distance	70 dB(A)
Main dimensions	L x W x H [m]	3,6 x 1,45 x 2,45
Weight (approx.)	Kg	3.680
Gas composition	separate data sheet	



)<sup>1</sup> at 50 Hz, U=0,4 KV, pf=1 )<sup>2</sup> at exhaust gas temperature 120°  
 NOx < 500 mg/Nm<sup>3</sup> (Engine adjustment for 250 mg/Nm<sup>3</sup> possible with deviating efficiency), CO < 300 mg/Nm<sup>3</sup>  
 reference conditions: Combustion air / ambient temperature >+5°C / <+27 °C; Altitude at site <300 m