



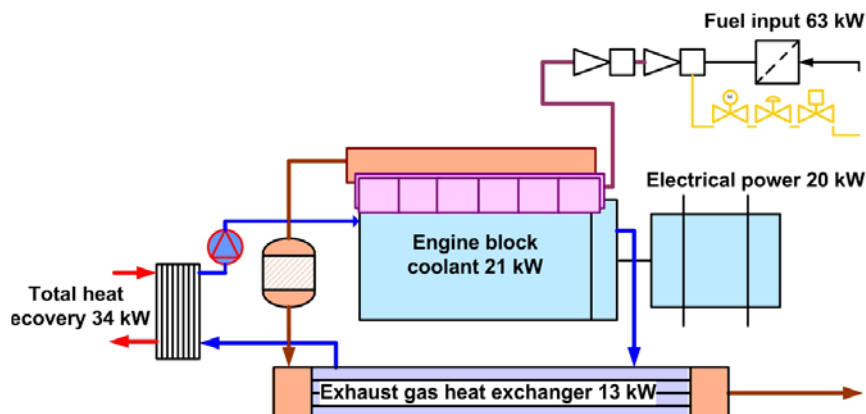
Specifications Biogas / Sewage gas CHP FMB-25-BSM / KSM

Issue: 06.2010_001 data sheet

Engine specifications		
Manufacturer		SCHMITT ENERTEC
Type		SE-IV 0304KNA
Speed	min ⁻¹	1500
Displacement	Liter	3,91
Number of cylinders		3 / in line
Aspiration		Naturally aspirated, lean burn gas engine
Generator		400V~ / 50Hz / synchronous

Performance data		100 %	75 %	50 %
Electrical power) ¹	kW	20	15	10
Total heat recovery	+/- 8% kW	34	26	18
-Exhaust gas heat) ²	+/- 8% kW	13	8	6
-Coolant heat	+/- 8% kW	21	18	12
-Mixture heat	+/- 8% kW	-	-	-
Fuel input	+/- 5% kW	63	50	35
Consumption biogas (Hu 5,48)	+/- 5% Nm ³ / h	10	7,8	5,5
Electrical efficiency	%	31,3	30,3	28,7
Thermal efficiency	%	53,6	52,9	51,3
Total efficiency	%	84,9	83,2	80
CHP coefficient		0,58	0,57	0,56

System parameters		
Flow temperature	max. °C	90
Return temperature	max. °C	70
Gas connection	DN / PN	On request
Heating water connection	DN / PN	2x 40 / 16
Exhaust gas connection	DN / PN	65 / 6
Air requirement combustion + ventilation	Nm ³ / h	1.254
Noise level with housing	1m distance	70 dB(A)
Main dimensions	L x W x H [m]	2,8 x 0,85 x 1,05
Weight, dry (approx.)	kg	2.200
Gas composition	separate data sheet	



)¹ at 50 Hz, U=0,4 KV, pf =1)² at exhaust gas temperature 180 °C
 NOx < 500 mg/Nm³ / CO < 650 mg/Nm³
 Reference conditions: Combustion air / ambient temperature >+5°C / <+27 °C; Altitude at site <300 m