



Specifications Biogas / Sewage gas CHP FMB-255-BSM / KSM

Issue: 02.2009 data sheet

Engine specifications

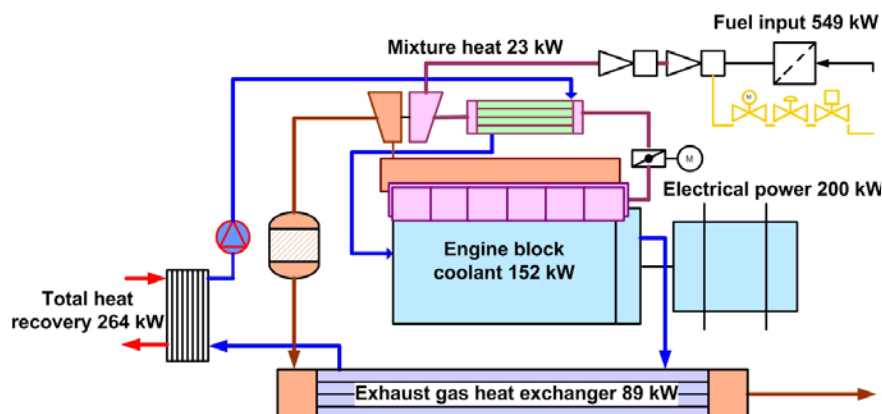
Manufacturer			SCHMITT ENERTEC
Type			SE-MB-1508-KTA70
Speed	min ⁻¹		1500
Displacement	Liter		15,08
Number of cylinders			8 / V
Intake	Leanburn engine turbocharged and internal mixture cooling		
Generator	400V ~ / 50Hz / synchronous		

Performance data

		100 %	75 %	50 %
Electrical power) ¹	kW	200	150	100
Total heat recovery	+/- 8% kW	264	208	143
-Exhaust gas heat) ²	+/- 8% kW	89	70	50
-Coolant heat	+/- 8% kW	152	120	80
-Mixture heat	+/- 8% kW	23	18	13
Fuel input	+/- 5% kW	549	419	292
Consumption biogas (Hu 5,48)	+/- 5% Nm ³ / h	100,2	76,5	53,3
Electrical efficiency	%	36,4	35,8	34,3
Thermal efficiency	%	48,1	49,7	49,2
Total efficiency	%	84,5	85,5	83,5

System parameters

Flow temperature	max. °C		90
Return temperature	max. °C		70
Gas connection	DN / PN		50 / 16
Heating water connection	DN / PN		65 / 16
Exhaust gas connection	DN / PN		150 / 6
Air requirement combustion + ventilation	Nm ³ / h		7.174
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, dry (approx.)	kg		4.300
Gas composition	separate data sheet		



)¹ at 50 Hz, U=0,4 KV, cos phi = 1)² at exhaust gas temperature 180 °C

NOx < 500 mg/Nm³ / CO < 650 mg/Nm³

Reference conditions: Combustion air / ambient temperature <27 °C; Altitude at site <300 m