



Specifications Biogas / Sewage gas CHP FMB-430-BSM / KSM

Issue: 08_2009_001 data sheet

Engine specifications

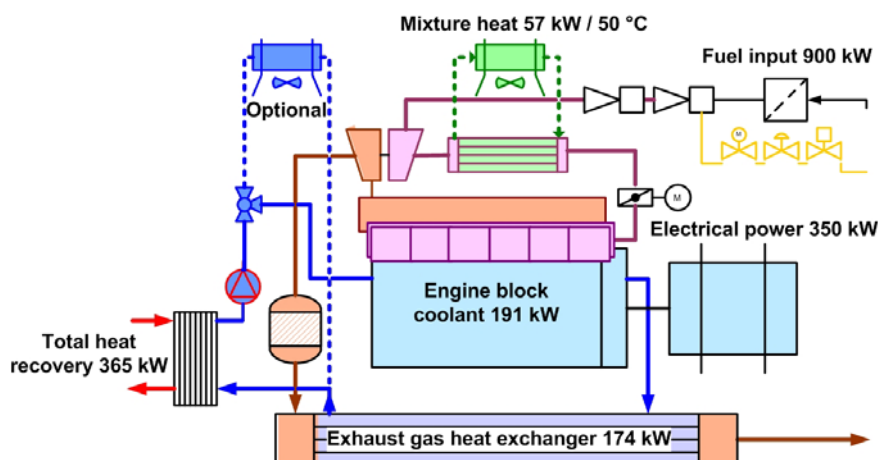
Manufacturer			SCHMITT ENERTEC
Type			SE-MB-2312-KTA50
Speed	min ⁻¹		1500
Displacement	Liter		22,6
Number of cylinders			12 / V
Intake	Leanburn engine turbocharged and external mixture cooling		
Generator	400V~ / 50Hz / synchronous		

Performance data

		100 %	75 %	50 %
Electrical power) ¹	kW	350	263	175
Total heat recovery	+/- 8% kW	365	292	229
-Exhaust gas heat) ²	+/- 8% kW	174	136	105
-Coolant heat	+/- 8% kW	191	156	124
-Mixture heat	+/- 8% kW	57	42	24
Fuel input	+/- 5% kW	900	683	504
Consumption biogas (Hu 5,48)	+/- 5% Nm ³ / h	164,2	124,7	92,0
Electrical efficiency	%	38,9	38,5	34,7
Thermal efficiency	%	40,6	42,7	45,4
Total efficiency	%	79,5	81,2	80,1

System parameters

Flow temperature	max. °C		90
Return temperature	max. °C		70
Gas connection	DN / PN		65 / 16
Heating water connection	DN / PN	2 x	65 / 16
Exhaust gas connection	DN / PN		200 / 6
Mixture cooling connection	DN / PN	2 x	40 / 16
Air requirement combustion + ventilation	Nm ³ / h		12.068
Noise level with housing	1m distance		70 dB(A)
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 <27 °C; Altitude at site <300 m