



**Specifications Biogas / Sewage gas CHP FMB-62-BSM / KSM**

Issue: 07.2010\_001 data sheet

**Engine specifications**

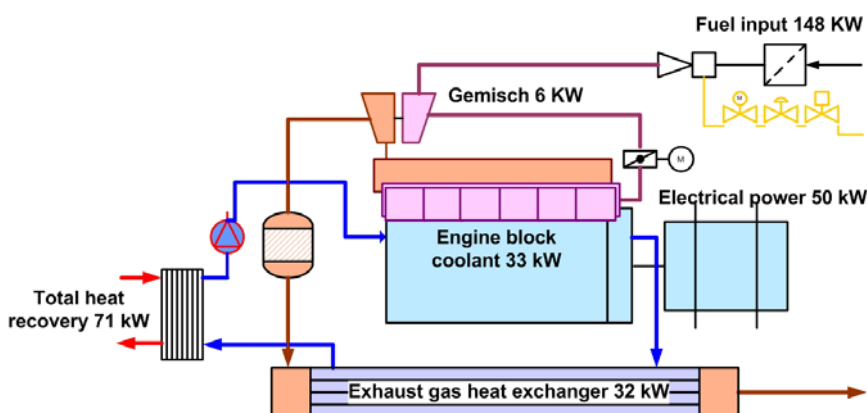
Manufacturer				SCHMITT ENERTEC
Type				SE-IV0504-GTA
Speed	min <sup>-1</sup>			1500
Displacement	Liter			4,5
Number of cylinders				4 / in line
Aspiration				Turbo
Generator				400V~ / 50Hz / synchronous

**Performance data**

		100 %	75 %	50 %
Electrical power ) <sup>1</sup>	kW	50	38	25
Total heat recovery	+/- 8% kW	71	65	45
-Exhaust gas heat ) <sup>2</sup>	+/- 8% kW	32	28	19
-Coolant heat	+/- 8% kW	33	33	25
-Mixture heat	+/- 8% kW	6	4	1
Fuel input	+/- 5% kW	148	126	86
Consumption biogas (Hu 5,48)	+/- 5% Nm <sup>3</sup> / h	27,1	23	15,7
Electrical efficiency	%	33,7	29,8	29
Thermal efficiency	%	47,6	51,5	51,7
Total efficiency	%	81,3	81,3	80,7
CHP coefficient		0,65	0,54	0,52

**System parameters**

Flow temperature	max. °C			90
Return temperature	max. °C			70
Gas connection	DN / PN			50 / 6
Heating water connection	DN / PN	2x	32 / 6	
Exhaust gas connection	DN / PN			80 / 6
Air requirement combustion + ventilation	Nm <sup>3</sup> / h			3.000
Noise level with housing	1m distance			70 dB(A)
Main dimensions	L x W x H [m]	2,4 x 0,85 x 1,85		
Weight, dry (approx.)	kg			2.000
Gas composition	separate data sheet			



)<sup>1</sup> at 50 Hz, U=0,4 KV, pf =1 )<sup>2</sup> at exhaust gas temperature 180 °C

NOx < 500 mg/Nm<sup>3</sup> / CO < 650 mg/Nm<sup>3</sup>

Reference conditions: Combustion air / ambient temperature >+5°C / <+27 °C; Altitude at site <300 m