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CHP · Cogeneration · Combined Heat & Power · Power Generation · Onsite Electricity Production · Gas Generators · Gensets · Energy Efficiency · Distributed Energy Generation · Renewable Energy · Power Plant

Specification Date	Fuel Type	Model
01 March 2010	Natural Gas	Alfagy N26

Engine Specifications	Metric	Type
Manufacturer		SCHMITT ENERTEC
Name		SE-IV-0303-GNA
Speed	min ⁻¹	1,500
Displacement	litres	3.0
Cylinders		3 / in line
Air intake		Natural with Lambda lean burn
Generator		400V~/50Hz/Synchronous

Performance Data	Metric	100% Load	75% Load	50% Load
Electrical power ¹	kWe	26	20	13
Total heat recovery ²	+/- 8% kWt	46	35	25
Exhaust heat	+/- 8% kWt	15	11	8
Coolant heat	+/- 8% kWt	31	23	17
Mixture heat	+/- 8% kWt	-	-	-
Fuel input	+/- 5% kWt	81	62	44
Natural gas use ³	+/- 5% Nm ³	8.1	6.2	4.4
Electrical efficiency	%	32	31.4	29.7
Thermal efficiency	%	57.2	56.9	56.8
Total efficiency	%	89.2	87.5	86.5

System Parameters	Metric	Dimensions	Number	Result
Flow temperature	max °C			90
Return temperature	max °C			70
Gas connection	RP			1"
Heating water connection	DN/PN		x 2	40/16
Exhaust gas connection	DN/PN			65/6
Air requirement	Nm ³ / hour			1,391
Noise level with housing	dB(A) at 1 meter			70
Main dimensions	L x W x H in meters			2.4 x 0.85 x 1.8
Weight	kg			1,900
Gas composition	Separate data sheet			

¹ At 50Hz; U=0.4 KV; pf = 1; NO_x < 250 mg/Nm³ & CO < 300 mg/Nm³

² Exhaust temperature at 120°C

³ Hu 10.02 kWh/Nm³

Note: Reference conditions are combustion air / ambient temperature < 27°C & site altitude < 300 meters above sea level