



Specification Date	Fuel Type	Model
01 March 2010	Natural Gas	Alfagy N75

Engine Specifications	Metric	Type
Manufacturer		SCHMITT ENERTEC
Name		E0834-E302
Speed	min ⁻¹	1,500
Displacement	litres	6.73
Cylinders		6 / in line
Air intake		Turbo
Generator		400V~/50Hz/Synchronous

Performance Data	Metric	100% Load	75% Load	50% Load
Electrical power ¹	kWe	75	56	38
Total heat recovery ²	+/- 8% kWt	127	110	78
Exhaust heat	+/- 8% kWt	42	33	23
Coolant heat	+/- 8% kWt	85	77	55
Mixture heat	+/- 8% kWt	-	-	-
Fuel input	+/- 5% kWt	223	185	128
Natural gas use ³	+/- 5% Nm ³	22.2	18.4	12.8
Electrical efficiency	%	33.6	30.4	29.3
Thermal efficiency	%	56.8	59.7	60.5
Total efficiency	%	90.4	90.1	89.8

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			2,924
Noise level with housing	dB(A) at 1 meter			70
Main dimensions	L x W x H in meters			2.6 x 0.85 x 1.8
Weight	kg			2,100
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 max. 300 meters above sea level; methane = 76%