

### **SCHNELL**, the company



- Founded in 1992 by Hans Jürgen Schnell
- Planning and construction of some 60 complete biogas plants by 2000
- # Currently > 400 employees

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- # 14,000 m<sup>2</sup> covered production facilities
- At present, more than 3,000 machines operating in 20 countries on 4 continents
- Production capacity of up to 1,000 modules per annum
- # Market leader in the production of dual fuel units





































## 







ata sheet 265 GT	
Engine type	Scania - SCHNELL
Capacity	12.0 litre
Cylinder arrangement	6, inline
Speed	1,500 rpm
Generator	Stamford, 370 kVA
Total electrical power	265 kW
Electrical efficiency	47%, acc. to DIN 3046
Electrical power engine	235 kW
Electrical power exhaust gas turbine	30 kW
Thermal power	192 kW
Thermal efficiency	34%
Rated thermal input	563 kW
Biogas consumption	
at 60% CH4	90 m³/h (Biodiesel) / 87 m³/h (vegetable oil)
at 50% CH4	108 m <sup>3</sup> /h (Biodiesel) / 104 m <sup>3</sup> /h (vegetable oil)
acc. to standard conditions: 0°C, 1013 mbar	
Ignition oil consumption - Biodiesel*	2,2 kg/h (4% of rated thermal input)
Ignition oil consumption - vegetable oil*	4.0 kg/h (7% of rated thermal input)
* at full load	

# Comparison 210 kW vs. 265 kW with GT



### Advantage of the duel fuel engine:

The higher electrical efficiency of the chp-unit implies a higher generation of electricity with the same input of biogas.

### **#** Comparison:

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With the same amount of biogas you can operate a gas otto engine with 210 kW (39% el. efficiency) or a dual fuel engine incl. exhaust gas turbine up to 265 kW





