

150 kWp CHP Units - Technical Information

For efficient energy supply and electricity supply according to EEG (the applicable law in Germany which governs Feed in Tariffs), we offer Cogeneration units on full turnkey basis with the following technical specifications:

Rated Output

Continuous Electricity	188 kVA / 150 KW (at 75% peak)
Annualized production	1,230,000 kWh / yr
Rated voltage	400 (230) V / 50 Hz
Delivered	via terminal box on container

Continuous Thermal	140 kW
Annualized production	1,148,000 kW
Volume	62 dB(A) @ 7 Meter
Delivered	via 2x2 pipe fittings on container

Container

Insulated?	no
Weather protected?	Yes
Width	2.435 meters
Height	2.591 meters
Depth	4.885 meters
Max depth (with doors open)	5.835
Weight (without fuel)	4,900 kg
Foundation required	5.00 m x 2.50 meters

Generator

Make	Leroy Somer
Type	3 phase synchronous generator
Generation	brushless
Voltage regulation	electronic
Voltage regulator	SX 460
Maximum phase current	270.9

Motor

Make	Volvo-Penta
Type	With turbo and intercooler
Cylinders	6
Bore (mm)	7.150
Compression	1 : 17.0
Performance at 1,500 Rev/min	max. 220 kW / kont. 200 kW
Speed control	electronic
Cooling	water cooled with radiator & cooling pump

Fuel Specifications

Biodiesel	Rapeseed Oil (DIN V 51605)
Fuel consumption (modified)	21.05 liters / hr (at 75% of peak)
System for special fuel treatment	ATG

Fuel Saving System

Make	Hypnow
Type	Plasma-injection
Tank volume	500 liters

Heat Exchanger

Make	Baode
Type	plate heat exchanger

Electronic Controls

Make	DSL Electric
Software	remote monitoring possible

Base CHP Manufacturer's Record:

Manufacturer produces 10 units / mo more than 250 units in Germany
(without fuel modification – which is exclusive to us)

Maintenance / Performance Warranty (annual cost):

Engine performance insured	replaced 3 to 5 years as needed
100% maintenance?	Yes - contract for 20 years
Remote monitoring available?	Yes – included in maint. contract
100% insurance?	Yes – included in maint. contract

Utility Company Provided / EEG Compliant Transformers

Available through REW or EnBW	in storage - available on demand
-------------------------------	----------------------------------