



Specification for Synchronous Cogeneration System

Model: **AMERIGEN 8150**

Electrical Output:

Generator Output (kW)	150
Generator Output (therm/hour)	5.1
Power Factor	0.95
Voltage, three phase, 60 Hz, AC (V)	480 or 208

Thermal Output:

Thermal Output (therm/hour)	7.9
Water Flow Rate (gallons per minute)	104
Water Outlet Max. Temp (°F)	202

Efficiency: (a)

Heat Rate (HHV)	10,213
Electrical Efficiency (%)	33.4
Thermal Efficiency (%)	51.5
Combined Total Efficiency (%)	84.9

Emissions (corrected to 15% O₂): (b)

VOC - Hydrocarbons (g / BHP - hr)	< 0.7
NOx - Oxides of Nitrogen (g / BHP - hr)	< 0.09
CO - Carbon Monoxide (g / BHP - hr)	< 0.5

Engine:

Engine Model	E2876 E312
Fuel Consumption (therm/hour)	15.3
Fuel Pressure (inch w.c.)	8 to 13
Shaft Output (HP)	219
Configuration / # of Cylinders	In-Line / 6
Displacement (cubic inch)	781
Speed (RPM)	1800

Miscellaneous: Outdoor Enclosure (d)

Dimensions L x W x H (inch)	156 x 60 x 96
Weight (lb)	8250
Noise (dba at 7 ft) (c)	78

Notes:

- (a) Engine data based on unit operating at sea level, 70°F ambient day, natural gas 970 BTU/SCF. Unit data based on HHV natural gas 1032 BTU/SCF.
 - (b) Based on using optional advanced catalytic converter technology. Pricing assumes a catalytic converter which is not necessary in all jurisdictions.
 - (c) Represents a standard enclosure and muffler package. Sound levels can be reduced to 68 dba with additional sound attenuation.
 - (d) Container pricing available.
 - (e) Measurement accuracy for electrical output +/- 0.5%, thermal output +/- 9%, fuel input +/- 6%.
 - (f) All units are self contained and controlled by an embedded processor based electronic control system. Integral to the control system are safety functions designed to automatically shut down the machine in the event of over or under frequency, over or under voltage, over or under current, reverse power, low oil level or pressure, low water flow rate, or excessive temperatures anywhere in the system.
 - (g) All units may be remotely monitored and controlled via an integrated modem and communications interface.
 - (h) Co-Energy America reserves the right to change unit specifications without notice.
-