



CO-ENERGY AMERICA

COMBINED HEAT & POWER

Specification for Synchronous Cogeneration System

Model: **AMERIGEN 8080**

Electrical Output: (note a)

Electrical Output (kW)	80
Electrical Output (therm/hour)	2.7
Power Factor (%)	97
Voltage, three phase, 60 Hz, AC (V)	480

Thermal Output:

Thermal Output (therm/hour)	4.4
Water Flow Rate (gallons per minute)	52
Water Outlet Max. Temp (°F)	203

Efficiency: (note a)

Heat Rate (HHV)	10,412
Electrical Efficiency HHV (%)	31.4
Thermal Efficiency HHV (%)	51.0
Combined Total Efficiency HHV (%)	82.3

Emissions (corrected to 15% O₂): (note b)

VOC - Hydrocarbons (g/BHP-hr)	< 0.7
NO _x - Oxides of Nitrogen (g/BHP-hr)	< 0.09
CO - Carbon Monoxide (g/BHP-hr)	< 0.5

Engine:

Engine Model	PSI 8.8L
Fuel Consumption (therm/hour)	8.7
Fuel Pressure (inch w.c.)	8 to 13
Shaft Output (HP)	112
Cylinder Configuration	V8
Displacement (cubic inch)	535
Speed (RPM)	1800

Outdoor Enclosure (note d)

Dimensions L x W x H (inch)

144 x 60 x 96

Weight (lb)

11,000

Noise (dba at 7 ft) (note c)

72

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 and excessive temperatures anywhere in the system.
 - (g) All units may be remotely monitored and controlled via an integrated modem and communication interface.
 - (h) Co-Energy America reserves the right to change unit specifications without notice.
 - (i) Available in 480/277V and 208/120V
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