INTELLIGEN
POWER SYSTEMS LLC
Intelligent Cogeneration

Specifications for 80 kW Induction Cogeneration System

	Model 80-IC With ECS (b)
Electrical Output:	
kW (a)	80
Power Factor	0.91
Thermal Output:	
Thermal Output (mmbtu/hr)	0.3733
Water Flow Rate (gallons per minute)	50
Water Outlet Max. Temp (Fahrenheit)	200
Efficiency:	
Heat Rate (BTU/kW-Hr) (LHV)	9,274
Electrical Efficiency	37.0%
Thermal Efficiency	50.0%
Combined Total Efficiency	87.0%
Emissions (corrected to 15% O2) (b)	
VOC - Hydrocarbons (g / BHP - hr)	< . 15
NOx - Oxides of Nitrogen (g / BHP - hr)	< . 15
CO - Carbon Monoxide (g / BHP - hr)	< . 60
VOC - Hydrocarbons (ppmvd)	< 32
NOx - Oxides of Nitrogen (ppmvd)	< 11
CO - Carbon Monoxide (ppmvd)	< 72
Engine:	
Fuel Consumption (mmbtu/hr)(LHV)	0.7419
Fuel Pressure (PSI)	2.0
Horsepower	114
Configuration / # of Cylinders	In-Line 6
Displacement (cubic inches)	419.00
Engine Speed (RPM)	1,800
Miscellaneous:	
Dimensions (L x W x H inches)	96 x 48 x 62
Weight (lbs)	4,000
Noise (dB(A) @ 2 meters) (c)	85

Notes:

(a) Single bearing; 480 Volts; 3 phase; 60 Hertz AC
(b) Emissions Control System - ECS is not necessary in all jurisdictions. Emissions levels shown are "lowest achievable levels".
Emissions requirements must be stated at time of equipment order based on state and federal requirements for a particular equipment application.
(c) Represents the standard enclosure and muffler package. Sound levels can be dramatically reduced with additional sound attenuation where necessary.
All engineering data is based on a tolerance of +/- 6%
All units are self contained and are controlled by an imbedded 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 current, low oil level or pressure, low water flow rate, or excessive temperatures anywhere in the system. All units may be remotely monitored and controlled via an integrated modem and communications interface.
Intelligen Power Systems reserves the right to change unit specifications without notice.

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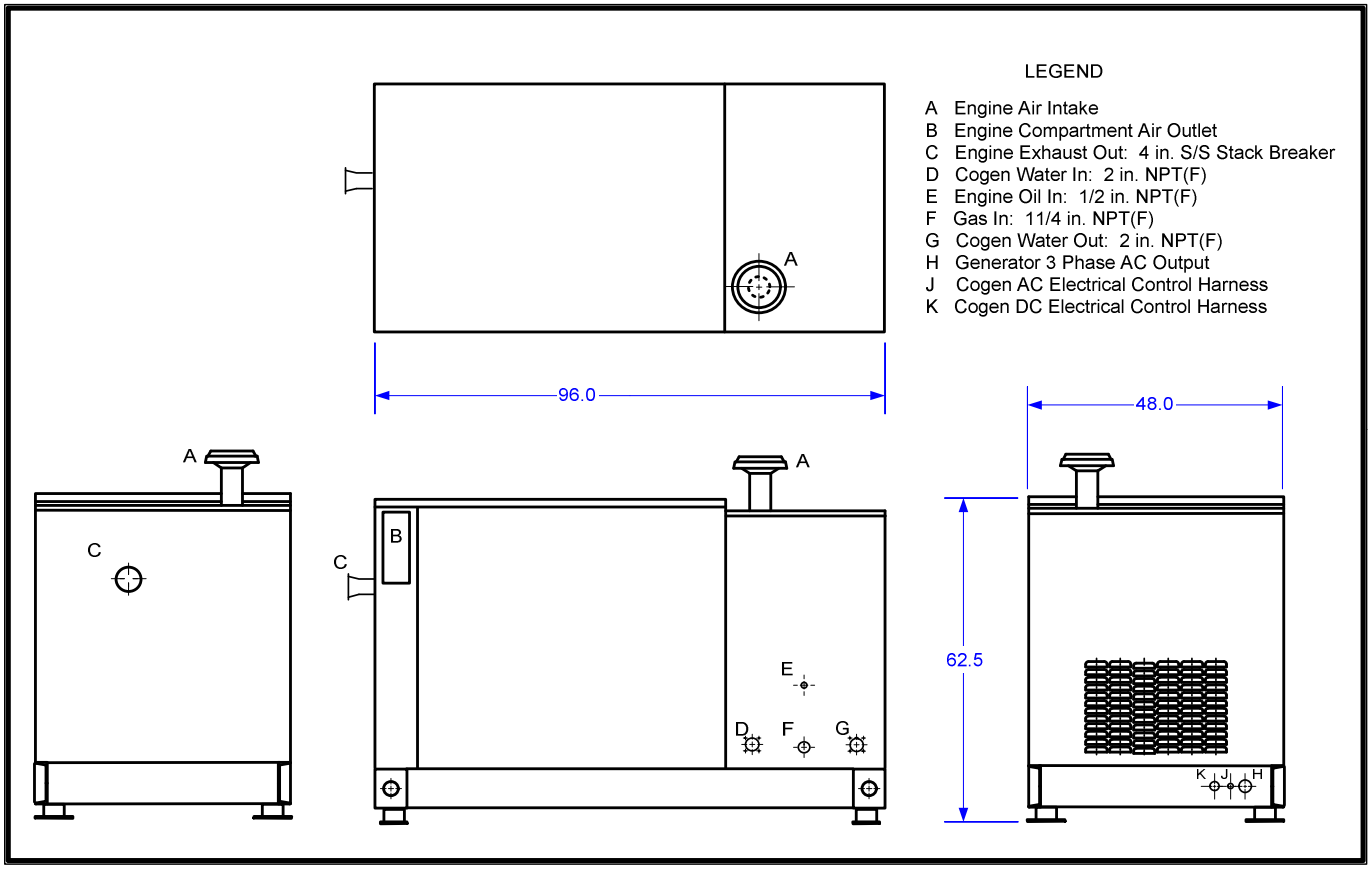
Three-View Drawing for 80 kW Induction Cogeneration System (a)(b)



Notes:

(a) Represents Intelligen Power Systems' standard enclosure and base hot water configuration. Other options are available to meet customer's requirements.
(b) Represents cogeneration unit only. ECS option, if required, is installed external to the enclosure and requires an engineered solution, consult factory.