



## RB211 GAS TURBINE PACKAGE

*The Coberra 6462 GT Units utilizes a Rolls Royce RB211 GG and an RT62 PT. The PT is coupled to an AC Gen via reduction gearbox. The gen set itself is comprised of 5 main packages, each being of modular construction for ease of transportation, handling at site, and assembly.*

*The Rolls Royce RB211-24C Mark 1750 GG two spool high pressure ratio engine with a seven stage intermediate pressure compressor, and a six stage high pressure compressor which drives two independent single stage turbines couples to the compressors through coaxial shafts. The two rotors of the GG are mechanically independent and run at their own optimum speeds.*

### Gas Turbine (GG)

Manufacturer: Rolls Royce  
Model: RB211-24C  
N1 Speed: 6555 RPM  
Fuel: Dual Fuel currently operating on natural gas

### Power Turbine (PT)

Manufacturer: Cooper Bessemer  
Model: RT62 PT two stage impulse reaction  
Rated HP: 27,749 (ISO)  
Rated Speed: 4800  
Maximum Continuous Speed: 5050 RPM  
Serial Numbers: 602RT and 654RT  
Overspeed Trip: 5450  
Turbine Inlet Pressure: 43.2 psia @ 40F ambient  
Turbine Inlet Temp: 1320F @ 40F ambient  
Turbine Exhaust Temp: 861F @ 40F ambient  
Lubrication: Mineral Oil 150 SSU

### Gear Reducer

Manufacturer: Lufkin  
Model Number: F33070  
Rating: 35,960 Hp  
Service Factor: 1.35  
Input Speed: 4800 Rpm  
Output Speed: 1800 Rpm  
Gear Ratio: 2.660:1

### AC Generator

Manufacturer: Brush Electrical Machines, LTD  
Model: BSGMD 131-290-4  
Type: 4 Pole  
RPM: 1800  
Volts: 12500  
Amps: 1454  
Phase: 3  
HZ: 60  
Power Factor: 0.85

### Air Filter System

GT Intake: American Air Filter  
AC Gen Air Vent Filter: American Air Filter

### Main and Auxiliary Lube Oil Pumps and AC Motors

Pump Manufacturer: Transamerica DeLaval  
Pump Rating: 310 GPM @ 1750 RPM and 77 PSI  
Motor Manufacturer: Westinghouse  
Motor Rating: 30 HP, 1750 RPM, 3 Phase, 60 HZ, 460 V

### Emergency Lube Oil Pump and DC Motor

Pump Manufacturer: Transamerica DeLaval  
Pump Rating: 257 GPM @ 1750 RPM and 77 PSI  
Motor Manufacturer: Reliance  
Motor Rating: 20HP, 1800 RPM, 125VDC

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## RB211 GAS TURBINE PACKAGE

### Water Forwarding Pumps

Pump Manufacturer: Transamerica DeLaval  
 Pump Rating: 5GPM @3500 RPM and 400 PSI  
 Motor Manufacturer: Westinghouse  
 Motor Rating: 3 HP, 3500 RPM, 3 Phase 60 HZ , 460V

### Lube Oil Cooler

Cooler Manufacturer: Air-X-Changer  
 Cooler Rating: RT Sec 1,850,000 BTU/HR @234 GPM  
 Motors Manufacturer: Westinghouse  
 Motors Rating: 10HP, 1800 RPM, 3 Phase, 60 HZ, 460 V  
 Type: Fin Fan Radiator

### Lube Oil Filter

Manufacturer: Hilco  
 Model: 52718-0150-2006  
 Type: Duplex

### Capacities in Approximate U.S. Gallons

PT Lube Oil Reservoir: 2500  
 GG Lube Oil Reservoir: 88  
 GG Lube Oil Accumulator: 1.5  
 GG Cleaner Tank: 45

### Coupling-Power Turbine to Gear

Manufacturer: Zurn Industries  
 Model: Ameriflex Series HPS  
 Type: Flex

### Coupling-Gear to AC Gen

Manufacturer: Zurn Industries  
 Model: Ameriflex, Series HPP  
 Type: Flex

### Fuel Gas Preheater

Manufacturer: Bas-Tex Corporation  
 Model: 06060  
 Shell Side: 340 PSIG  
 Tube Side: 960

### Air Conditioning Equipment

2 Trane Horizontal Flow P/N TORR-IM-2D

### Building Info

Building with 25 TON Bridge Gaffey Crane  
 Battery room located inside Generator Building  
 60 ft. x 125 ft. x 38 ft. at the eave and 45 ft. at the peak

### HVAC Equipment

Manufacturer: Frees, Inc.

### Centrifugal Fans

2 Buffalo Forge Ventilating Fans

### Demin Water Storage Tank

Manufacturer: Southwest Tank & Treater  
 Capacity: 15,000 gallons

### HCL Tank

Manufacturer: Southwest Tank & Treater

### Caustic Storage Tank

Manufacturer: Southwest Tank & Treater  
 Capacity: 3,000 gallons

### High Pressure Fuel Gas Scrubber

Manufacturer: Southwest Computer Inc.  
 Description: 640 PSIG @ 300F 36" ID X 10FT

### Turbine Exhaust Duct

Manufacturer: Fish Engineering & Construction

### Demineralization System Package

Manufacturer: H-O-H Systems INC.

### 480 Volt MCC

Manufacturer: Westinghouse Five Star MCC

### Battery Chargers

Manufacturer: Sab Nife Corporation

### Waste Heat Recovery

58.52MM BTU/HR (ea)  
 470 PSIG @ 650F  
 Burner design case (663,120 LB/HR)  
 Turbine exhaust gas (600,840 LB/HR)

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 1395 S. Marietta Pkwy SE,  
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