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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 (Not included)

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 (Not included)

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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