

5950 KW BACK PRESSURE STEAM TURBINE GENERATOR SET

STEAM TURBINE:

Manufacturer: Siemens (Dresser Rand)
Packager Serial number:
Type: Back pressure , ITS5
Rating: 6300 kw (at turbine flange) 5950 kw at generator outlet
Inlet steam: 600 psig/750 °F
Exhaust steam: 65 psig
Maximum inlet steam flow: 140,000 lbs/hr
Steam rate: 23.53 lbs/kwh
Inlet steam size: 8" side
Exhaust steam: 24" UP
Speed: 5492 rpm
Rotation: CW from governor end
No. of stages: 5 Rateau
Casing material: Cast steel/cast steel (steam end/exhaust end)

GENERATOR:

Manufacture/Type: Ideal Electric air cooled
Serial Number: 011056-2
Frame: 2152-37
Rating: 12,500 kva, 13800 v, 3 phase, 60 hz
Field: 125 v dc, 4.5 amps
PF: 0.8
Exciter: PMG , brushless type. BE-13-5
Speed: 1800 RPM

SCOPE OF SUPPLY

Steam Turbine complete mounted on skid
Gear reducer Lufkin 5492 rpm to 1800 rpm
Generator with terminal box and exciter
Inlet Gimpel stop valve with control panel
Lube oil system with air cooled lube oil cooler
Gland steam condenser
Turbine control panel with PLC control and Woodward 203 speed monitor
Generator control panel with SEL-700G generator protection relay
Generator circuit breaker GE VB 13.8-500-3 with cts and pts
Auto synchronizing

HISTORY:

Year manufactured: 2000 Generator replaced 2007
Year shutdown 2022

We can rerate the steam turbine with below parameters and provide smaller generator if interested

Inlet steam 400 psig/600 °F 4500 kw
Inlet steam 250 psig/500 °F 3000 kw



