



350 KW BACK PRESSURE STEAM TURBINE GENERATOR SET

One (1) Steam Turbine Generator Skid consists of

Elliott Type DYRPG serial number B102321 rated Power 600 hp
Inlet steam 200 Psi/395 deg F Maximum 250 Psi/600 deg f
Exhaust steam 30 Psi Maximum 60 Psi
Steam flow 35.52 lbs/KWH @ 350 kw 12,432 lbs/hr
Running speed 3600 rpm , maximum continuous speed 3780 rpm, Trip speed 4759 rpm
First critical speed 9100 rpm.
Inlet 6" #300 valve with Flowserve actuator, y right side
Exhust 12" #150 flange Right side
Carbon steel body with sentinel valve
Bearing oil globe, bearing vibration sensors
Steam inlet gauge, steam exhaust gaure
Water glass gauge, water pressure gaue
Steam Turbine Blakets
Rotation CW facing governor end

Marathon primeline induction generator Model HB 449TSTDN17010AA-W Serial No WAA053399
Kw 350 3 phase 60 hzm , 3628 rpm, FLA 470 , SF 1.0, Efficiency 95.8% ,, Drame 449TS
Continuous, Enclosure DP, PF 0.895, Bearings DE 6314/PDE 6314
Thermostates and Berings RTDsx , Terminalbox, air filter

Skid foundation size 8' L x 53" , Overall skid size 11' L x 66" W x 66" H aprx. 8,000 lb

One (1) Ewing Control Turbine Generator Control Panel consists of

Free standing NEMA-1 panel 30" W x 18" D x 72" H with front opening door
Beckwith M-3410A generator protection Relay
Allen-Bradley PLC with PanelView Plus HMI Panel
Square D ION S6200 Power Meter
Emergency stop button
Breaker open (green) close (Red) indicating lights
ABB FT-1 test Switch
120 v power suply with control power transformer Square D 3 ka, 480 v to 120/240 v
24vdc Control power supply need (not insluded)
nVent Model N210216G051Air conditioner

One (1) GE Spectra series Switchboard consists of

Free standing Nema-1 Cabinet 30" W x 30" D x 90" H
800 amps bus, 23 phase, 3 wire 65Ka
GE Power Break II circuit breaker Cat# SSF08B208 Seral no P24000014700101, 800 amps 3 pole, 600 V
VAC rating Plus type TR8B, @ 480v 6KA interrupting rating
3 x 600:5 CTS
2 x 480: 120 v fused PTS
3 x incoming bus cable lugs and 3 x outgoing cable lugs , grounding lug

One (1) Power factor corection capactor with disconnect switch consists of

Floor mounted 28" w x 9" d x 36" H 60 lbs

Square D disconnect switch

Capacitor Power Survey cat# PS5M100nfl 100 KVAR, 3 PHASE 480 V , SERIAL NUMBER 0812010, TYPE mmp

Aerovox power factor correction capacitor cat# MMPA0100C33 , 100 kvar 3 PHASE, 480 V, SERIAL NO 315204 0830 6

Unit started up 2009 Suhtdown 2025





