



ENERGIA S.r.l.

Il Vostro partner per la produzione di energia

Your partner for energy production

For Sale: "As new" Steam Turbine Generator Set

REF. NO.: ST1038G

ONE (1) 1.5 MW CONDENSING STEAM TURBINE GENSET WITH EXTRACTION(S)



Year of manufacture	1975
Start-up	1980
Shut-down	1990
Overhauling(s)	1985, 2001 (after shut down)
Running hours	15.000 approx.
Listen number	T00462600

TURBINE

Manufacturer	Siemens
Turbine type	K800
Turbine no.	4626

Blading	1 impulse stage 21 reaction stages
Regulation valves	4
Nominal rating	1.500 kW
Live steam pressure	40 bar G
Live steam temperature	420 °C
Live steam flow	8 tons/h
Bleeding 1	12 bar G; 1,5 tons/h
Bleeding 2	0,33 bar G; 0,8 tons/h
Rated exhaust steam pressure	0,05 bar A
Rated exhaust temperature	31°C
Exhaust steam flow	5,8 - 8 tons/h
Turbine shaft rotation speed	8.000 rpm

STEAM CONDENSER

Manufacturer	Siemens
Type	water cooled
Exchange surface	167 m ²
Pipe bundle	stainless steel
Condensing steam capacity	8 tons/h
Condensing pressure	0,05 bar A
Cooling water type	river water
Cooling water flow	396 m ³ / h
Cooling water inlet temperature	20°C
Vacuum system	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
Condensate pumps	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no

GEAR BOX

Manufacturer	Siemens
Serial number	T4626/568
Reduction ratio	8.000 / 1.500 rpm
Shafts disposition	parallel and horizontal axes
Characteristics	cylindrical, helical toothed, in alloyed steel, cemented, hardened and ground.
Lubrication	pressure for gears and bearings

GENERATOR

Manufacturer	Siemens
Generator type	Synchronous VFL 312/31-4
Generator no.	006636
Service	continuous
Location	indoor

Apparent power	1800 kVA
Power factor	0,815
Voltage	400 V
Frequency	50 Hz
Intensity of current	2.600 A
Rotation speed	1.500 rpm
Exciter	static
Excitation voltage	37 V
Excitation intensity of current	371 A

SCOPE OF SUPPLY:

Multistage condensing steam turbine, Single reduction gear box, Synchronous AC Generator, Pipe bundle steam condenser, Control and lubricating oil system complete with oil tank, main oil pump (driven by the turbine shaft), filters, valves, interconnecting piping, water cooled oil cooler, Inlet combined stop and emergency valve with integral steam strainer, hydraulic servomotor operated inlet control valves, hydraulic governor, high speed and low speed couplings, steam seal system, all metal labyrinth type gland packing. Vacuum system and condensate pumps are not included in the scope of supply.

CONDITION OF THE EQUIPMENT:

Excellent. The turbine engine was subject to general overhaul in our workshop in 2001, while the condenser and the generator, in very good conditions, can be (depending on the customer's needs) overhauled by us within 30 days.

LOCATION OF THE EQUIPMENT:

The unit is stored in our warehouse in Italy and can be inspected with short advise.

DELIVERY TIME:

Turbine engine already overhauled, stg-set already dismantled and ready for shipment:

Immediate