



DEALERS & IMPORTERS OF POWER PLANTS & ALLIED MACHINERY

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42 MW CONDENSING STEAM TURBINE-GENERATOR SET (WITH TWO CONTROLLED EXTRACTIONS)



Year of Manufacture	: 1974
Year Retired	: 2006
Service Hours	: ~ 30,000
Condition	: Excellent
Status	: Dismantled & packed
Notes	: The LP section will be supplied with new rotor blades. No condenser is available.

TURBINE

Manufacturer:	Brown Boveri Company, Switzerland
Type:	Two cylinder, reaction steam turbine
Economical Rating:	22,200 kW
Maximum Continuous Rating:	44,000 kW
Rated Speed:	3,000 rpm
Rated (Maximum) Inlet Flow:	160,000 kg/h
Normal Inlet Pressure:	108.85 barA
Maximum Cont. Inlet Pressure:	To be advised
Normal Inlet Temperature:	520 C
Maximum Cont. Inlet Temp.:	535 C
1st Extraction - Rated Pressure: - Rated Flow:	12.26 bar absolute 66,474 kg/h
2nd Extraction - Rated Pressure: - Rated Flow:	3.92 bar absolute 72,000 kg/h
Exhaust Pressure:	0.075 bara
Performance Data (@ Rated Inlet & Exhaust Conditions);	
Case A	
Inlet Flow:	160,000 kg/h
1st Extraction:	0 kg/h
2nd Extraction:	0 kg/h
Power:	42,000 kW
Specific Heat Consumption:	2,407.3 kcal/kWh
Case B	
Inlet Flow:	130,370 kg/h
1st Extraction:	0 kg/h
2nd Extraction:	0 kg/h
Power:	33,500 kW
Specific Heat Consumption:	2,453.3 kcal/kWh
Case C	
Inlet Flow:	160,000 kg/h
1st Extraction:	27,475 kg/h
2nd Extraction:	27,162 kg/h
Power:	34,700 kW
Specific Heat Consumption:	2009.8 kcal/kWh
Case D	
Inlet Flow:	160,000 kg/h
1st Extraction:	66,474 kg/h
2nd Extraction:	72,000 kg/h
Power:	22,200 kW
Specific Heat Consumption:	1,019.6 kcal/kWh

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ALTERNATOR

Manufacturer:	Brown Boveri Company Ltd, Switzerland
Type:	2 pole
Apparent Power:	55,000 kVA
Power Factor	0.8
Active Power:	44,000 kW
Rated Voltage:	13,800 V
Phases:	3
Frequency:	50 Hz
Rated Speed:	3,000
Connection:	Star



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