



DEALERS & IMPORTERS OF POWER PLANTS & ALLIED MACHINERY

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3x50MW Coal Fired Steam Turbine Generator Sets for sales:

1. Generator data (#3, #4, #5)

Model : QFQ-50-2-B
Output : 62.5 MVA
Stator current : 2440A
Stator voltage : 10.5kV
Frequency : 50 Hz
Speed : 3000 rpm
Cooling : hydrogen external cooled
Insulation : class B

2. Steam Turbine data:

Model : N50-8.83-1 high pressure, single cylinder, condensing type
Rated power : 50MW
Max power : 55MW (only under certain condition, not for testing)
Speed : 3000 rpm
Steam inlet pressure : 8.83Mpa
Steam inlet temp : 535 C

Low pressure steam exhaust pressure: 0.0054Mpa (at meter 0.1013-0.0054=0.0959Mpa)

Exhaust temp at load max 65 C

Cooling water temp : normal 20 C, max 33 C

Cooling water flow : 8160T/h

Water inlet temp : 220 C

Total 21 stage (1 adjustable +20 pressure stages), at stage 5,8,11,15,17,19 set non-adjustable steam extraction. At the 5th stage of the steam turbine bottom , there are 2 nos of Ø168 adjustable heat extraction holes, pressure: 1.4Mpa to 2.69Mpa, temp: 337.8 to 400.4 C

	unit	Adjustable stages	First section	Second section	Third section	Fourth section	Fifth section	Sixth section
Extraction point		Back of stage 1	Back of stage 5	Back of stage 8	Back of stage 11	Back of stage 15	Back of stage 17	Back of stage 19
Extraction steam pressure	Mpa	5.6	2.691	1.385	0.772	0.293	0.131	0.041
Extraction temp	C	480	390	312	249	156	107	76
Extraction capacity	T/h		12.28	6.83	8.21	6.36	8.85	6.9
Re-heater output temp	C		220.4	190	158	130	105	75
Re-heater			#2 high add	#1 high add	De-oxygenator	#3 low add	#2 low add	#1 low add

.steam turbine with heating system has total steam consumption rate : 193.032t/h, steam consumption (guarantee value): 3.72kg/kwh, heat rate : 9399kj/kwh

3. Boiler data

Boiler type single steam natural convection coal dust boiler, steel structure, reverse U layout.

Model : SG-220/9.8-M298

Date of operation : #3 April 1994, #4 Oct,1994, #5 Aug,1995

Maker : Shanghai Boiler Factory

Rated capacity: 220t/h

Saturated steam pressure : 10.78Mpa

Overheat Steam pressure : 9.8Mpa

Steam temp : 540 C

Boiler efficiency : 91.1%

Last major overhaul of power plant:

#3 Feb,2004

#4 Dec,2007

#5 Feb, 2005

PRODUCT IMAGES :









NITIN CORPORATION