

Straight Condensing Steam Turbine

Specifications & Range				
Model No.	SC-RT-50	SC-RT-60	SC-RT-135	Unit
Output	50	60	135	MW
Speed	3000	3000	3000	rpm
Pressure	8.83	8.83	13.24	MPa.a
Temperature	535	535	535	°C
Flow	182	220	399	t/h
Exhaust Pressure	4.82	5.42	4.9	kPa.a
Steam Rate				
Design Condition	5.74	5.34	4.33	kg/kW.h
Condensing Condition	3.62	3.67	2.94	kg/kW.h
Heat Rate				
Design Condition	6436	6780	7533	kg/kW.h
Condensing Condition	9207	9120	8159	kg/kW.h
Feed Water Temperature	217	228	244	°C
Weight of Turbine	127	127	395	ton
Weight of Upper Half	25	25	N/A	ton
Weight of Turbine Rotor	18.7	18.7	N/A	ton
External Dimension	7.5 x 7.1 x 3.3	7.5 x 7.1 x 3.3	13.6 x 7.3 x 5.2	m
Center Height of Turbine	800	800	N/A	mm

Note:

- (1) The rotational direction of all turbines is clockwise viewed downstream.
- (2) The above data represent the maximum values of the specification of the machine.
- (3) The vendor reserves the right to make changes to the specifications in order to improve the products.



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The principle design features of the straight condensing steam turbines are all structurally impulse, non-reheating, single cylinder type for power plants. The turbines use the advance 3-D technology for through flow path. The units are quite compact in structural size, but with high performance.

These steam turbines are fully CNC controlled through the internal hydraulic system. The products are equipped with protective monitoring system, which would ensure the safety and reliability of the steam turbines.

