



QZJ Series Complete Water-ring Vacuum Pump System

Application:

QZJ Series Complete Water-ring Vacuum Pump Systems are especially suitable for establishing and maintaining the vacuum condition of turbine generator sets and condenser of that. During the operation of vacuum system, it continuously suck out the air which was seeped into turbine set and its condenser from different paths. The scale of water-ring vacuum pump system adequate for condenser will be decided by the scale of infiltrated air volume of condenser. If the infiltrated air can not be sucked out in time, the stability and performance of turbine unit will be affected. For lowering the consumption and energy conservation, the better is the vacuum condition, the lower will be the steam and power consumption in power plant.



So the vacuum system for condensers is very important to power plant. It will directly affect the

economical efficiency and stability of power plant operation. At present, for a lot of self-generation power plant, garbage power plant and thermal power plant, their vacuum systems are generally water-jet pumping system or steam-jet system. These systems all adopt out-dated technique and the maintenance will be very inconvenient. New power plant generally directly adopts new design of water-ring vacuum pump system.

Advantages:

- The water-ring vacuum pump system adopts circulation water for cooling. The water consumption is lower without steam consumption.
- The pump body of water-ring vacuum pump system will not be scaling as water-jet pump(especially in the situation of bad water quality). So the maintenance work will be much more less for water-ring vacuum pump system.
- Operation is simple and it can support operation without supervision and realize DCS remote control.
- Easy Maintenance.
- Less land occupation and easy installation and connection.
- They are the first choice for existing power plant condenser vacuum pump system renovation project and new power plant project condenser vacuum pump system.
- The vacuum degree of water-ring vacuum pump system can achieve -93Kpa or lower. The exact vacuum degree will depend on the on-site situation and cooling agent temperature.

Technical Parameter List

Vacuum Pump Set	Diameter of Inlet/Outlet Flange	Total Power (KW)	Turbine Set (Mega Watt)	Dry Air Volume (Kg/h)	Overall Dimensions
QZJ-I	DN50	5.5	≤0.8	2-7Kg/h	1050×900×1250
QZJ-II	DN65	7.5	≤0.8	8-9Kg/h	1100×1000×1300
QZJ-III	DN65	11	1.2	10-12Kg/h	1200×1050×1300
QZJ-IV	DN65	15	1.2-2.5	13-18Kg/h	1450×1100×1450
QZJ-V	DN65	22	3-7	19-25Kg/h	1650×1200×1550
QZJ-VI	DN100	30	7~12	26-35Kg/h	2000×1300×1750
QZJ-VII	DN100	37	15~20	40-50Kg/h	2300×1400×1750
QZJ-VIII	DN100	45	30	51-60Kg/h	2300×1450×1850

■ Above size and weight are for reference only, the specific data shall be subject to its physical object.