

System of vacuum creating in condenser MAJ

The system of vacuum creating in condenser provides:

- vacuum creating at steam exhaust with purpose of using the more heat difference of working fluid at spent steam condensation;
- noncondensed steam-air mixture removing from the turbine condenser with purpose of more deep vacuum creating, that is necessary for safe and efficient turbine operation;
- air outlet from upper zone of condenser overflow chambers at condenser water filling in time of unit start-up;
- air inlet to the circulation system at emergency circulation pumps shutdown for water hammer prevention.

The condenser group consists of four vessels. Condensers are connected by pairs by cooling water. In each condenser pair the cooling water goes by two streams, it allows turbine to work constantly.

Liquid-packed ring pumps provides vacuum creating and maintenance in condensers. A number of working liquid-packed ring pumps depend on steam feed rate and vacuum system leaktight integrity.