

The proposed method for controlling operation mode of air cooling devices can be used in gas industry, specifically at gas-compressor stations of gas mains. The method consists in measuring the temperature and pressure of cooling air, measuring the temperature and pressure of gas after cooling by a single air cooling device, comparing the gas design temperature with the specified temperature, determining the number of the air cooling devices that are required for cooling gas to the specified temperature, calculating the gas pressure after cooling, and comparing the gas design pressure with the specified pressure. If the design pressure is less than the specified pressure, the operator of the gas-compressor station is noticed about the operation mode of the air cooling devices, including the data about the number of the operating air cooling devices and the gas temperature and pressure before cooling. If it is not possible to specify the operation mode of the air cooling devices that ensures the specified parameters of gas after cooling, the operator is noticed about reasons of the impossibility to set the required operation mode. The present invention provides a possibility to increase the quality of the control and select the optimal operation mode of the air cooling devices.