

The proposed unit for the thermal-cycle tests of automatic devices at reduced atmospheric pressure contains a vacuum chamber with a cover, an input manifold, and a vacuum system. a cooling system, a heating system, a system for controlling the tightness of the tested device, and a temperature control and monitoring system. The cover of the vacuum chamber contains a heat exchanger. In the walls of the heat exchanger, passages for cooled air or heated compressed air are provided. The inside surfaces of the walls have light-reflecting coating. The heat exchanger is coupled with the input manifold via a heat-insulated pipe. At the inlet of the manifold, electric-pneumatic valves for feeding cooling and heated air are installed. The outlet branch pipe of the heat exchanger is coupled with the pipe for discharging compressed air. The present invention provides the required temperature mode in tests that corresponds to actual operation conditions of automatic devices, specifically devices to be installed at aircrafts.