



Case Study: Automated Test Equipment Helium Mass Spectrometry Leak Test

The machine shown below was designed and built by Peko for a major automotive component supplier to test air conditioning components for refrigerant leaks. The test cycle included loading the part in a test chamber, initiating an automatic pressure decay gross leak test with a longer fine leak test using helium mass spectrometry. The chamber provided a “hard vac” (high vacuum) atmosphere to allow the required detection resolution. A dual test chamber layout was chosen so that as one part is unloaded and reloaded, the other chamber can perform test functions, thereby maximizing the utilization rate of the vacuum and mass spectrometry equipment.



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