



CSZ Builds Large Temperature, Humidity, Vibration Chamber for FAW-Volkswagen China

FAW China, in a joint venture with Volkswagen, contacted CSZ with a need for a large custom test chamber. FAW has purchased from CSZ in the past and knew returning to us to fill this request was a good decision based on the performance, reliability and quality they experienced with previous CSZ test chambers.

The scope of their project was to conduct testing on front-end assemblies for Volkswagen. FAW had very specific requests for transition times for temperature and humidity without a live load. The chamber also needed to be able to work in conjunction with an existing vibration table and be large enough for operators to easily insert and remove large automotive parts. The chamber also had to meet Volkswagen specification PV1200,

The solution provided by CSZ was a 600 cu. ft. CV chamber with two 40 hp. compressors. The chamber had an inside workspace which was 118 in. wide and 72 in. high and 126 in. deep (300cm W x 183cm H x 320cm D).

Chamber Features

- Customer-specified window locations and welded access ports.
- Performance requirements:
 - Transition from 90°C to -40°C with 300kg of aluminum in approximately 65 mins
 - Go from -40°C to 90°C with 300kg of aluminum in approximately 65 mins
 - Hold 90°C and 95% humidity after stabilization
- Temperature range: -40°C to 120°C (-40°F to 248°F)
- Humidity range: 10% to 95%

