

AUTOMOTIVE TESTING EQUIPMENT

Conditioned Air Supply

For maximum accuracy, repeatability, and stability, complete all of your environmental testing with our conditioned air supply systems. Delivering air at precisely controlled temperatures, humidity, and pressure conditions, our systems are able to provide for a wide range of applications and industries. Trust Tescor to build the conditioned air supply you need.

The Conditioned Air Supply System consists of an Air Conditioning Unit (ACU) and a Pressure Control Unit (PCU). The ACU draws in outdoor air, cools and dehumidifies the air, and then re-heats and injects steam to regulate temperature and humidity levels. The PCU utilizes a receiving chamber and linear control valves to feed the correct amount of air to the test unit while maintaining a constant flow of air through the ACU to maintain maximum stability.

Key Benefits:

- High temperature and RH rangeability in one system
- Exceptional control tolerances
- 24/7 run time with no process air delivery interruption available at all controlled conditions
- Market leading energy efficiency design options available on most configurations

Applications and Test Types:

- Combustion air supply for engine development
- Engine emissions certification testing
- Dilution tunnel air supply
- Altitude compensation for engine development testing
- Fuels and lubrication development
- Automotive climate control component development
- Central air supply for multiple test cells
- Special air conditioning systems for environmental test chambers
- Air reconditioning units for psychrometric test cells
- Compound storage rooms for the pharmaceutical industry

Specifications:

- -40° to 60° C temperature
- -23° C minimum dew point
- -12° C humidity control
- +/- 2° C and 5% RH control standard
- Wide range of airflows
- Tighter controlled tolerances on request
- Wider ranges on controlled parameters available on request

