



TetraTek Products, Inc.

We Put It All Together

Aerospace Refrigeration Compressor Calorimeter

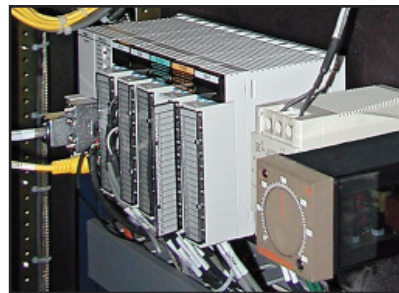
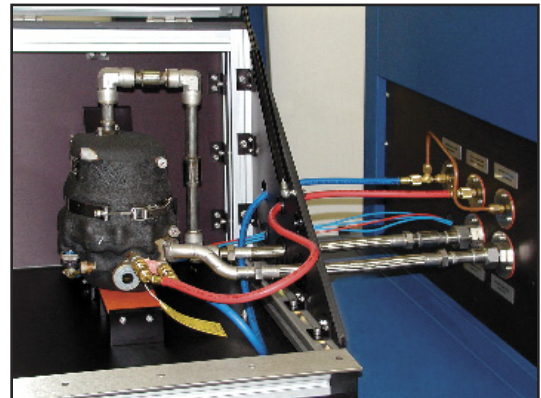
TetraTek Products, Inc. has manufactured a Calorimeter Test Stand optimized for testing small, high capacity and horsepower, Aerospace refrigeration compressors operating with Refrigerants R114, R124 and R134A.

The calorimeter includes:

- A vibration isolated acoustic enclosure with window.
- A three bay relay rack enclosure with floor locks.
- A touch screen color Human Machine Interface.
- A programmable logic (PLC) to control the process.
- Custom multiscreen software written by TetraTek.
- A built-in calibrated charging cylinder.
- A Yokogawa Electric three phase power meter.
- A digital vacuum gauge.
- High quality pressure and temperature transducers.
- A refrigerant reclamation system with vacuum pump.
- A TetraTek heat exchanger and a water cooled condenser.

Maximum performance conditions are::

- Compressor RPM less < 5,600 rpm and weight < 25 lb.
- Maximum Thermal Load < 40,000 btu/hr at 300 F.
- Discharge Temperature < 350 F and pressure <350 psig.
- Suction Temperature < 150 F and pressure < 150 psig.
- Liquid Temperature < 212 F.



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