

**Note: Data Sheet For Reference Only - Actual Chamber May Vary Depending on Model/Year, Options, Controllers, and Individual Configuration**

**W**hile Thermotron is probably best known for its test chambers, the same caliber of expertise helped shape and build our highly versatile forced-air cooling units.



*The versatile Portable Conditioner supplies conditioned air to a product or enclosure through insulated ducts.*

## Equipment Cooling Air (ECA) Units

Equipment Cooling Air units are used to simulate conditions a product may encounter in actual service. Using insulated ducts, Thermotron's ECA Units force air, precisely conditioned to a specific temperature and flow rate, through your product.

ECA Units provide forced-air cooling to high density electronic equipment, particularly airborne electronics. Even though compressed air designs have become the industry standard, your individual test requirements may vary. When they do, Thermotron can provide traditional blower style ECA's that are engineered for open or closed-loop cooling procedures.

## Applications

### Aerospace Electronics Testing

Control air flow, temperature and volume with precision, and accurately recreate the environmental conditions a product will encounter during use.

### Combined Environment Test Facilities

Thermotron's ECA unit can supply prescribed cooling air to a product that is undergoing a functional verification test inside an AGREE Chamber.

## Portable Conditioners

When product size makes chamber testing impossible at your facility, our P-CH or PR-CH units keep your operation running smoothly by providing conditioned air to remote locations through insulated duct work.

To increase operational flexibility, Portable Conditioners will supply conditioned air to a remote test enclosure, which can alter or condition the air around a product within a test enclosure.

The P-CH-200 and P-CH-810 portable temperature conditioners are self-contained units used to provide conditioned air to a remote test enclosure through connecting ducts. Both of these models are LN<sub>2</sub> or CO<sub>2</sub> cooled. Thermotron's PR-CH-5-5-AC portable temperature conditioner has capabilities similar to those of the P-CH models. However, it incorporates a cascade refrigeration system for cooling in lieu of customer supplied LN<sub>2</sub>.

## Applications

### Remote Conditioner

Allows for remote, insulated enclosure conditioning, regardless of whether the enclosure is customer supplied or built by Thermotron.

### Automotive Testing

Provide precisely conditioned air to vehicle components such as carburetors, air conditioning, and heating systems.

### All-Around Flexible Test Equipment

Handy for research and development labs that test many new and different products with atypical configurations and sizes.

### Test An Entire Automobile

Ducts can be attached through the windows of a vehicle, cycling the whole interior to required temperature extremes.