HVAC Market Applications - Product Guide

Custom transformers can often help designers of HVAC/R equipment to gain a competitive edge in the marketplace. Our robust designs are available as single components – or can be combined with other components such as wiring harnesses, leads, moldings, stamping, even integration into upstream/downstream components like sensors to simplify installation and reduce costs.

Combining multiple HVAC components provides further proof of the value of custom products. Standex-Meder engineers have worked with several major compressor suppliers to develop custom products – from custom terminals for high amperage applications to wiring harnesses that incorporate Standex-Meder terminals, blocks and in line fuses.

Commercial cooling appliances have also benefited from Standex-Meder current sense transformers. We helped a manufacturer of frozen drink machines increase the consistency of their end product by monitoring current draw as the agitator paddles moved through the freezing mix, rather than measuring temperature.

Custom and Standard Standex-Meder assemblies for HVAC/R applications:

- Current sense transformers
- Transformers for commercial and residential heating applications
- Connector blocks to mate with hermetically-sealed connectors for air conditioning compressor applications
- PC mount current-sense transformer with integrated primary winding; Designed to meet your agency requirements
- Progressive-Die Stamped Terminals for HVAC/R
- A broad range of Push-on / Crimp-on connectors

Capabilities include:

- Application Engineering
- Connector & Terminal Engineering
- Hi-volume, Progressive Die Stamping
- Experienced in UL, CSA, IEC, TUV & VDE Standards
- Mechanical Engineering & Electronic Component Packaging
- 3-D Solid Modeling Design
- Plastic Molding Capabilities
- Wire Prep and Wire Harness Assembly
- Rapid Prototyping
- Glass to Metal Sealing
- Laser Welding
- Magnetic Component Engineering
- 52ga - 8ga & Foil Magnetic
- Component Winding
- Wind and assemble all core shapes and types including laminated
- Sensor & Reed Switch Engineering
- Complete lab & test capabilities for Mil/Aero, automotive and other industries as required
The Oakville lab facility is approved as a Witness Testing Location by the following agencies:

- Canadian Standards Association (CSA)
- Underwriters Laboratories
- Intertek Testing Services (ETL)
- TÜV Rheinland®

Laboratory test capabilities for lighting applications:

- Thermal Shock Testing (-70°C to 200°C, LN2 boost assures less than a 5 minute air-temperature recovery time).
- Thermal Cycle Testing (-68°C to 177°C)
- Humidity Testing (-18°C to 93°C, 98% RH, cycle temp or steady state).
- Vibration Testing (Sine or Random profile, 1” pkpk displacement, 0 to 80 g pk, 5 to 2000 Hz)
- Mechanical Shock Drop Testing (½ sine 50g 11ms, ½ sine 1500g .5ms, or sawtooth 100g 6ms)
- Hi Temp Testing (Up to 260°C)
- Salt Fog Testing
- Solderability Testing