



Thermal Edge Inc.™

Air Conditioner Options

AMBIENT PACKAGES

The low ambient option consists of circuitry to protect the compressor in a low ambient temperature environment. Heat is applied inside the compressor, where it is needed, to protect it from damage or wear due to stalls and hard starts after long periods in the non-cooling state.

This works together with the pressure controlled condenser fan in Thermal Edge air conditioners. The condenser fan cycles off in low ambient temperature conditions, thus allowing rapid warm up. This also reduces the current inrush by not starting the condenser fan when the compressor is turned on.

Low Ambient Package (A1 standard / A2 custom)

- Special circuit protects compressor from stalls and hard starts at ambient temperatures below 50°F and during long periods of compressor off-state
- Constant low current in compressor motor during the non-cooling state provides internal heat to compressor
- Ambient temperatures as low as 20°F
- Below 20°F requires a special quote

High Ambient Package (A3)

- Optimize Air Conditioner during manufacturing to achieve improved performance at high ambient conditions
- Standard maximum ambient temperature is 125°F or 131°F
- Most models can be optimized to achieve 131°F operation
- Some models can be optimized to achieve 140°F operation

NOTE: Low Ambient option **MAY NOT** be combined with High Ambient option, unless pre-approved by engineering.

All information subject to change without notice

Get the Edge... Get Thermal Edge

Temperature Control Solutions for Electrical Enclosures

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