Avanti's Exclusive Super Conductor Technology

This technology (also referred to as "Heat-Pipe" cooling) has been used for many years in the Aviation and Aerospace industries. It is now available for use in consumer refrigeration products. A refrigerator needs to maintain 38-41F degrees for optimal and safe fresh food preservation. The Avanti SuperConductor system can maintain *36F degrees. It also has several benefits over Compressor and Thermo-Electric/Semiconductor cooling systems.

Benefits vs. a traditional compressor system:

- SuperConductor maintains a more consistent fresh food temperature.
- No compressor noise during operation. 28.5 decibels vs. 43 average decibels for compressor products. Ideal for applications where Whisper Quiet operation is needed.
- No compressor vibration and less moving parts means longer life for product and better preservation of wine products.
- Lower amperage use. Also available in a DC operation for boats and RV's.
- Much lighter weight for easier shipping, handling and installation.
- "GREENER" product. Uses the same environmental friendly 134a refrigerant in cooling system with less disposing/recycling issues than compressors.

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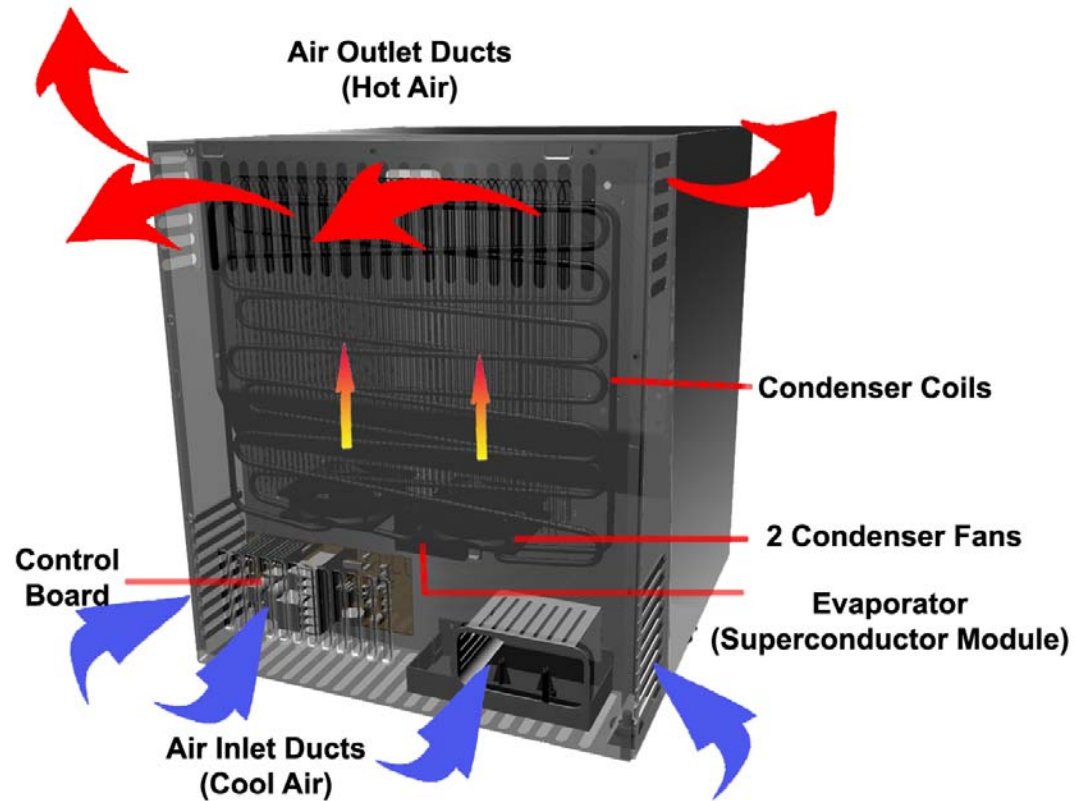## Avanti's Exclusive Super Conductor Technology (continued)

Benefits vs. Thermo-Electric/Semi-Conductor Cooling:

- Able to achieve and maintain temperatures necessary for safe fresh food and beverage preservation. Can achieve *36 degrees Fahrenheit vs. Thermo-Electric/Semi Conductor limitations of 30 degrees below ambient temperature. Thermo-Electric works adequate for Wine Chiller and Water Dispenser applications.

- Recovery time after door openings is 50-60% faster. Food and beverages are preserved better and consistently colder in a SuperConductor product.

- SuperConductor uses proven 134a refrigerant as a cooling agent in the refrigeration system.

* When operated in normal room temperatures of 72 -78F degrees

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Avanti's Exclusive Super Conductor Technology (continued)

Air Outlet Ducts
(Hot Air)

Condenser Coils

2 Condenser Fans

Control
Board

Evaporator
(Superconductor Module)

Air Inlet Ducts
(Cool Air)

Rear View