

VARICOOL

Off-Grid Cooling Solution



The VARICOOL unit was designed as an optional cooling solution for INTERTEC enclosures, cabinets and shelters. It is best suited for remote off-grid applications: With its low operating voltage it is the perfect solution for heat compensation in remote locations with little to no power supply, though it excels as an inexpensive on-grid solution just as well.

As part of our SAFE LINK service, the entire production process of a complete VARICOOL solution from design, engineering and outfitting to shipping and final assembly on site is handled by our experts.



Pre-assembled complete package or retrofit solution

The VARICOOL is a cooling solution for remote field equipment and is intended to be installed outside. Its low operating voltage allows it to operate using only the optional photovoltaic modules (with or without a battery). However, with the optional AC/DC converter, the VARICOOL can operate with any line voltage. As it is a small sized solution, it can easily be retrofitted into INTERTEC enclosures and cabinets.

The VARICOOL can also be used in a cascaded manner to provide more cooling power. That way, it is also suitable for INTERTEC SHELTERS and larger cabinets when thermal loss power up to a certain degree needs to be compensated.



The basic VARICOOL setup includes a compressor, an external and an internal heat exchanger, the latter of which actively cools a steel plate, which in turn acts as a thermal buffer. The instrumentation or electronics are then mounted to the buffer using C-rails.

Depending on the application, the VARICOOL solution can be supplemented with solar panels and batteries for off-grid operation.

Visit <https://www.intertec.info/en/cooling> for more resources on our cooling solutions or <https://www.intertec.info/en/safe-link> to learn more about our SAFE LINK assembly service.



In combination with our **MULTIBOX**, the VARICOOL is perfect for relatively small applications. This setup is available as part of our SAFE LINK assembly service.



Larger applications that require **cabinets** or **shelters** can also benefit from the VARICOOL, either as a completely outfitted system as part of our SAFE LINK assembly service or as a **retrofit** package for existing enclosures.



Should the need arise, an existing INTERTEC Passive Cooled Shelter can be retrofitted with one or more VARICOOL units to transform it into a **Hybrid Cooled Shelter** to further improve its cooling capacity. The streamlined design allows easy installations without compromising the integrity of the solution.



INTERTEC offers more than you can see.

- Thermally insulated cabinets, enclosures, covers and shelters
- Enclosed instrument hook-ups
- Analyzer houses
- Fire protection boxes
- Heating, ventilation, cooling

- Quality engineering
- Proven designs
- CAD
- Calculations
- Easy integration
- Reliable and long-lasting operation of electronics
- Fire protection
- Explosion protection
- Comprehensive documentation
- Relevant certification
- Procurement & logistics
- Low total cost of ownership

Since its founding over 50 years ago, INTERTEC has grown to a worldwide engineering and sales organization with locations in Germany, Canada, Russia and the United States. To provide technical solutions for grassroots projects and existing MRO markets, INTERTEC has a sales partner network spanning 31 countries around the globe.

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