



Remote Air Conditioning System (RACS)

In some cases it may not be possible to put an item that needs climatic testing into a conventional test chamber. It could be too big or only part of a larger structure that needs to be tested in isolation and therefore cannot be moved to a test chamber. This is a common occurrence in the automotive and aerospace industries.

The solution is a RACS, which provides conditioned air via flexible hoses to a low cost temporary, insulated, enclosure built around the test item.

RACS can be supplied to condition enclosures of any size but if the system is to be multi purpose they must be ordered with the worst case in mind.

FEATURES

- Compressor or gas cooled refrigeration systems, or a combination of both.
- Temperature ranges from -70°C to $+200^{\circ}\text{C}$
- Mobility on lockable castors.



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- Heavily insulated flexible hoses up to 5m long.
- FGH P 3000 programmable controller.

OPTIONS

- Programming and logging software for real time data storage and retrieval.
- Humidity control from 10% to 98% RH.
- Variable speed circulation fans to accommodate various size enclosures.
- Air drier to prevent icing of the evaporator, which is common if the enclosure is not air tight.
- Purpose made sectional enclosures with or without windows and entry ports for cables or rotating shafts.
- Conventional test chambers with circulation fans and hoses added to provide a RACS capability as well as a standard chamber.

Design Environmental can produce a RACS for your specific needs at an affordable price. Contact us to discuss your application and we will prepare a detailed quotation and technical specification of our recommended system.