

### RCCL

**Business:** Shipping Cruise line

**Location:** Miami FL USA London

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QHi Infrared recently combined with R & B Marine in Miami, Florida to provide the solution to a problem for Royal Caribbean Cruise Lines (RCCL), who wanted a reliable system to continuously thermally monitor key 11kv electrical switchgear on the propulsion systems of their Voyager Class liners. The ExerTherm system from QHi, specifically designed to provide continuous 24/7 thermal monitoring, for key components inside electrical switchgear enclosures, was successfully installed in March 2003 by R & B Marine.

Eric Schreiber, Chief Electrical Superintendent for RCCL stated "the ExerTherm system solved our problem, and helps us avoid potentially expensive consequences from unplanned power outages on our key propulsion system switchgear".

ExerTherm utilises small, plastic, non-contact IR sensors which require no power. These are placed **INSIDE** the switchgear enclosure to directly and continuously monitor any key component.



The system can identify potential problems at an early stage of development via ongoing trend analysis. It also provides 2 individual alarms per sensor, which activate if temperatures exceed customer defined levels.

This is a significant technology step forward from thermo graphic scanning which can only provide periodic inspection (and thus not trend analysis), and only of those components immediately adjacent to the external switchgear panel surface.