

# REFCON 6

## Automating site monitoring with full coverage.

- **Improved cargo monitoring:** alarms and reefer data are constantly updated and shown in the user interface
- **Improved documentation:** reefer container data stored and can be included in automated reports
- Reduced human errors: planning parameters are verified and the user is alerted of any mismatches
- **Improved personnel safety:** time spent in reefer areas or bays is minimized, everything you need for daily monitoring is available in the user interface

### Designed for and by you

With Copeland's REFCON 6, the information you need is never more than a few clicks away.

The user interface is developed in close cooperation with our customers' superusers to ensure the design resembles the user's normal workflow and makes interaction as simple and efficient as possible.

REFCON 6 collects, stores and displays all operational parameters of the reefers (temperatures, setpoints, alarms and events).

REFCON 6 highlights what is important by pointing out which reefers need attention.

The performance bar helps our users manage their operations more effectively, emphasizing containers and actions that need attention: the new communication state shows all relevant information about containers and field devices availability, with new colors to visually identify reefer and devices status.

Customized lists and views can easily be created to match the individual user's exact needs.

Users are notified of events and alarms by customizable emails filtered by location or user types, which are customizable as well.



REFCON 6  
Reefer Monitoring System

### Total system integration

REFCON allows monitoring and remote control of relevant parameters on the reefer container and control unit from all our wireless Bluetooth® devices and ISO 10368 compatible devices, being compliant with DCSA recommended guidelines.

Being future proof while maintaining compatibility with existing systems, REFCON 6 enhances data availability and, therefore, user visibility.

Day and night REFCON 6 stores, exchanges and analyzes data for the benefit of your operations. REFCON 6 interfaces with vessel planning systems, terminal operating systems and even your own applications through secure API's.

Cargo damage due to wrong temperature setpoints have been reduced by 95% after the utilization of REFCON.

Claims have been reduced by 70% with the Copeland Transport 'quick information' function.

**European Shipping Line**

REFCON enabled us to continue with the same staff levels despite 20% more live reefer yard storage and service requirements for an additional 1000 reefer plugs 24/7.

**Terminal Manager, large Asian Terminal**



## **REFCON 6 packed with features**

### **System foundation**

- Full support for Copeland Bluetooth® modems and ISO 10368 enabled reefer
- Extended support for Thermo King, Carrier, Daikin, and Star Cool reefer containers
- Compatible with multiple Microsoft Windows operating systems (.NET)
- Multiple REFCON monitors with Microsoft ClickOnce Deployment installation
- Operation protection by password authentication: several account types available, based on responsibility
- Extended Data Interchange (EDI) with vessel planning system (Baplie, Loadstar, Seacos, etc. formats)
- Interface to terminal operating systems (support for Navis N4, Jade, Cosmos and in house developed systems)
- Custom configurable lists and filters
- Context sensitive online user manual

### **Basic modules**

- Performance bar highlighting container monitoring performance
- Alarm lists with manufacturer specific alarm codes and clear alarm text
- Event lists with change-control trail and advanced filters
- Container lists with configurable readings such as temperature setpoint, return, supply, humidity, USDA cargo sensors
- Container details including hourly log of historical readings for each individual container
- Graphical overview of historical logs
- Automatic or configurable container plan with graphical overview of reefer containers
- Remote operations: change container ID, change setpoint and start manual defrost
- Print and export of all lists (csv, pdf or email)
- Set user generated alarm and highlight specific containers, i.e. high value cargo

### **Optional modules**

- Bluetooth® communication interface
- REFCON Mobile interface for monitoring and documenting containers with manual or Bluetooth® data collection
- Alarm notification via digital outputs (interface to external systems)
- REFCON data service: generic data exchange interface to third-party systems
- Email routing of system or container alarms
- Interface to Copeland remote management

### **Compatible and up-to-date software**

REFCON 6 is compatible with all reefer manufacturers' control equipment – and, naturally, we are always up-to-date with their latest software. The reefer container market is ever dynamic. At present REFCON 6 supports:

THERMO KING



CARRIER



DAIKIN



STAR COOL



**To learn more, visit [copeland.com](http://copeland.com)**

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