



Turn to the Experts™

# Data Recording



## DataCorder™

Carrier's DataCorder electronic trip data recorder, is integrated with the MicroLink™ 3 controller. All control and recording functions are housed in a single electronic module reducing demand for control box space and simplifying spare parts concerns.

With the DataCorder trip data recorder, you can record up to two years of critical trip information and events. Actual duration of stored data is dependent on operating configuration and recording options selected.

Data can be downloaded to any laptop, the DataReader™ retrieval unit, or via DataBank PC card technology. Using Carrier's DataLINE™ diagnostic software, analysis and display can be presented in graphic and tabular report format.

## USDA Cold Treatment Option.

Controlling insects in perishable cargo shipped over long distances is becoming increasingly important. Conventional insect-control procedures are time-consuming and expensive. Environmental and health concerns have led to restrictive legislation and, in some cases, strict bans in chemical pesticides.

The Carrier DataCorder trip data recorder is USDA-certified to properly record temperature events for pest-control cold treatment. This process uses controlled temperature and time relationships to destroy insect larvae in the cargo.

Accurate measurement and recording of cargo pulp temperatures over the required time interval ensure that the process is successful. To accomplish this, the DataCorder USDA provides connections at the side of the reefer system – to plug in up to four remote probes that may be inserted into the cargo at required locations. These probes measure temperatures inside the cargo, and the DataCorder trip data recorder logs those temperatures at intervals of one hour.

## Features

**Flash memory.** Data memory is retained without need for battery backup.

**Real-time clock.** Data and time are programmed into DataCorder trip data recorder factory preset at universal time (GMT), and user-changeable.

**Memory card slot for software.** System can be downloaded via DataBank PC card technology.

**Optional rechargeable power-up battery packs.**

**Unique permanent serial number in memory.**

**Versatile user-configurable operation.**

**USDA-certified.**



Turn to the Experts™

# Document up to two years of critical trip information and events with the DataCorder trip data recorder.

Rechargeable batteries are installed into the DataCorder trip data recorder so that temperature data can be recorded even when the system is not connected to external power. This ensures an uninterrupted record of temperature for the entire voyage.

At the delivery point, the data is extracted and analyzed using the Carrier Transicold DataBank PC card technology and DataLINE diagnostic software, which automatically formats the information for quick review and acceptance by inspectors.

USDA Cold Treatment capability may be specified as a factory-installed option. Or NT systems can be built with provisions to field-install this option. Remote probes are furnished through the Carrier Transicold WorldWide Service Parts Network.

Field installation of the USDA Cold Treatment option on a system with factory provision requires installing a connector panel in the furnished cutout on the side of the system and connecting the existing wires to the connectors. Order Kit P/N 76-00676-00

**Recording intervals:** 15, 30, 60, 120 minutes selectable. Instantaneous or averaged.

**Standard Recording Options:**

Secondary Supply and Return Air

Secondary Supply air, Secondary Return air, USDA 1, 2 and 3

Secondary Supply air, Secondary Return Air, USDA 1, 2, 3 and Cargo Probe

**Recording Resolution:** For the standard configurations, one or two byte recording is available. One-byte recording maximizes the DataCorder storage capacity in terms of days recorded while optimizing recording resolution such that it is most accurate in the critical perishable cool regions. Two-byte recording focuses on achieving the most accurate recording values.

**Optional Data Recording:** Up to 8 optional sets of data may be recorded at the desired recording interval. If units are so equipped, the following information can be recorded: Primary Supply air, Primary Return Air, Suction temperature, Discharge temperature, Suction pressure, Discharge pressure, mains voltage, mains current, Relative Humidity and more... **Note:** Recording data above-and-beyond the standard recording options utilizes more DataCorder storage space so less overall data will be stored in the DataCorder memory.

**Controlled atmosphere sensors:** O<sub>2</sub>% and CO<sub>2</sub>%.

**Event Recording:** Defrost initiation/term, power on/off, setpoint change, alarm activity, pretrip, trip start, compressor hours, container ID change, trip information, S/W revision, real-time clock modification, data retrieval, temperature probe calibration, vent position (if equipped) and controlled atmosphere system events.

