



Turn to the Experts™

# Service Accessories



What good is the latest technology if it isn't practical? That's why Carrier engineers were very careful to design systems that are easy to operate, maintain, and service. Essentially, systems that are built for the people who work with them, with service accessories that are functional and easy to access.

## ■ Hinged Back Panels

Optional aluminum or stainless steel hinged back panels enhance system service access. Captive, quarter-turn fasteners attach to the panel – and are much easier to disengage than conventional bolts and washers. With this option, the upper half of the rear system panel can be easily opened and closed without handling loose fasteners or lifting large panels. Unlike bolts and washers, our captive quarter-turn fasteners can't be dropped or lost.

## ■ Handles

Handles can be furnished at several locations on the front of the refrigeration system. These handles offer a convenient hand-hold when servicing the system. Handles can be located center-only, sides – only, or sides-and-center. When side handles are specified, the system is also provided with two attachment points for hooks.

## ■ Rain Gutters

Water running down the front of the reefer system from condensate drains above, or from other sources can enter the control box or chart recorder when the door is opened for service. Optional rain gutters are designed to channel water away to keep internal components drier during service.

## ■ Thermometer Ports

One or two ports may be provided on the front of the NT system to allow for insertion of a mechanical thermometer or thermocouple to check the temperature of supply-air and/or return-air inside the container.



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## ▪ Suction And Discharge Mechanical Pressure Gauges

Optional compound pressure gauges can be provided to give instant visual readout of system operating pressure information. These gauges are liquid-filled to dampen pressure pulsations and enclosed in stainless steel cases for maximum corrosion protection. Conveniently located near the compressor, the suction pressure gauge displays pressure over the range -1 to +10 bar (30" Hg to 150 psi) and the discharge pressure gauge displays pressure over the range -1 to +35 bar (30" Hg to 500 psi).

## ▪ Refrigerant Pressure Transducers

Optional suction and discharge pressure transducers make gauges obsolete. Simply push a button on the controller's keypad to display pressures in the refrigerant system, without having to hook up gauge lines. This reduces the possibility of refrigerant leakage caused by connecting and disconnecting gauge lines. It's an option that provides added service convenience.

## ▪ Emergency Bypass System

An optional Emergency Bypass System can be added that can be used in the event of a catastrophic controller failure. This electronic module and switch system will fully open the electronic suction modulation valve and energize the evaporator and condenser fans and the compressor to provide cooling. The user can then operate the unit manually turning the EBS switch on and off. For additional protection, there is also an Emergency Bypass System that provides for manual defrosting capabilities.

## ▪ Hinged Condenser Grill

For non-CE Marked equipment, an optional hinged condenser grill can be added to ease serviceability for the condenser fan and motor.

## ▪ Compressor Hour Meter

An optional electromechanical compressor hour meter can be added and mounted internal to the control box to better track compressor run time in hours. The meter is hooked up directly to the compressor contactor such that any time the compressor is energized, time is accumulating.

## ▪ System Temperature Sensors

Optional compressor suction and discharge temperature sensors save time and effort in diagnosing system problems by displaying temperature on the controller's digital readout, rather than having to connect thermocouples to the system.

