



ThinLINE®

*The industry standard for quality,  
reliability, and performance.*



# ThinLINE®

More growers and shippers depend on the ThinLINE® unit.



Safe passage under all conditions. That's why so many people depend on Carrier's ThinLINE® unit container refrigeration systems. Our non-ozone-depleting HFC-134a 06D compressor is the industry standard for reliability and efficiency in container applications. Our Exclusive EverFRESH® controlled atmosphere option ensures field-ripe flavor on delivery. Overall, the ThinLINE unit's trouble-free operation and dependable performance make it the first choice of more growers, importers, and shippers worldwide. Because they know our quality products don't just bring their cargo in. They bring revenue in.

## **The field-proven compressor that stops at nothing.**

The ThinLINE unit is equipped with Carrier's 06D semihermetic compressor. Proven reliability has made it the workhorse of the industry. ThinLINE units have the full capacity you need today to support the most demanding pulldown requirements. Designed to handle the rigors of container refrigeration, the 06D compressor has become the standard throughout the container industry.

- Exclusive canted valves and contoured pistons reduce clearance volume to maximize volumetric efficiency, especially at low box temperatures.
- Vented connecting rods improve bearing lubrication.
- Crankcase pressure-equalizing tube and spinner tube assembly balance crankcase and system pressures to maintain a high oil level in the compressor, even during startup.
- Lube-oil passages on bearing surfaces increase oil circulation to internal bearing and running gear surfaces under all operating conditions.

- Oil pressure regulator maintains constant oil pressure to ensure optimum lubrication of all moving parts.
- Backed by a standard three-year compressor warranty to protect you from expensive compressor repairs.



**The 06D compressor.**  
Evolutionary technology.  
Simple operation.  
Complete satisfaction.



# Nothing protects your sensitive cargo like ThinLINE®.



Carrier's ThinLINE unit is the industry standard for balanced system design for container refrigeration. It is the recognized leader in container system performance. Our exclusive balanced system design maximizes your investment in reefer equipment and delivers maximum protection for every temperature-sensitive cargo you carry. The ThinLINE unit also delivers outstanding performance and reliability, saving you hundreds of dollars in annual operating cost, per system, versus competitive units. Overall, ThinLINE units bring you superior operating efficiency, precise, intelligent electronic control, and field-proven reliability from the world leader in transport refrigeration.

- State-of-the-art electrostatically coated copper fin, tube, and tube sheet condenser coil for superior corrosion protection.
- The reliable workhorse of the industry: Carrier's field-proven 06D compressor.
- Electric defrosting and heating.
- Non-ozone-depleting HFC-134a refrigerant.
- Auto defrost takes the guesswork out of setting defrost intervals.
- Micro-Link® 3 microprocessor controller. Program upgrades and DataCorder™ downloads in seconds with the DataBank™ PC card. Backward compatibility with Micro-Link® 2i controller ensures seamless transition to Micro-Link 3 controller.

- Front panels provide quick access to evaporator fan motor and fans. Evaporator fan motor, mounted for quick removal of modular fan, fan stator, and motor assembly, if required.
- Stainless steel hardware with protective coating. Mylar barrier between dissimilar metals protects against corrosion.
- Precisely aligned, high-efficiency evaporator fan motors and vane-axial fans reduce fan heat and improve cooling capacity.
- Cube-efficient ThinLINE unit frame with minimal box protrusion.
- Evaporator coil, with copper tubing and aluminum fins.
- Symmetrical bottom-air delivery into T-bar floor for better air distribution.
- Non-ozone-depleting foam insulation. Safer for the environment while protecting the cargo.



# Micro-Link®. The user-friendly controller that thinks of everything.

Micro-Link® 3 controller provides state-of-the-art electronic temperature control to meet even the most demanding applications. In a system that's remarkably easy to operate, diagnose, and service.

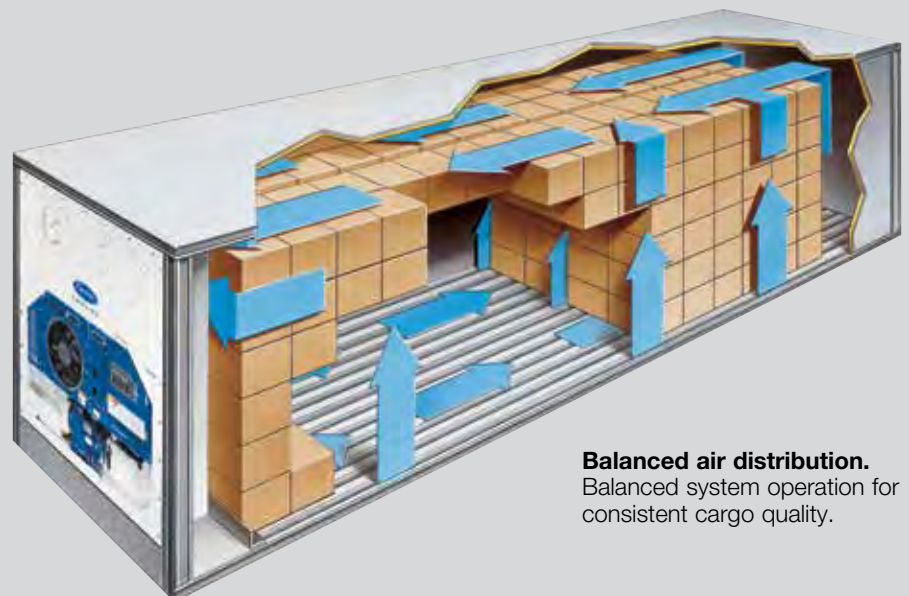
- Completely modular design and assembly, simple plug-in/plug-out components.
- Advanced PID logic controls and diagnostics.
- Large side-by-side digital displays, angled and backlit for easy viewing.
- User-friendly ClickSet™ control panel and dedicated function keys.
- Single software card configures and upgrades Micro-Link 3 controller in seconds.
- DataBank card downloads DataCorder memory in seconds without using a laptop or other external device.
- User-selected basic or enhanced pretrip routine.
- Highly precise internal probe calibration circuit.
- Selectable operating safeguards include 100% Cool, 50% Cool, Evaporator Fans Only, or Unit Shutdown.
- Advanced two-tiered alarm system.
- "Redundant" recorder and temperature-control probes. By combining optimum cooling

capacity and air distribution, the ThinLINE unit provides exceptional protection across all operating conditions. To deliver uninterrupted quality control in extreme environments, dockside and at sea.

- Vane-axial evaporator fans use less energy and outperform blowers at common operating static pressures.
- Aero-condenser fan reduces power consumption and increases efficiency.
- The ThinLINE unit's Condenser Pressure Control (CPC) energizes the condenser motor only at high operating pressure, reducing power consumption and increasing motor life.
- Airflow is distributed across the full width of the container, eliminating hot spots.
- Symmetrical bottom-air delivery into the T-bar floor improves air distribution.



**The Micro-Link® 3 controller.**



**Balanced air distribution.**  
Balanced system operation for consistent cargo quality.

# Optimum capacity and controlled atmosphere protect your cargo front to back.

## Controlled atmosphere protects your cargo inside out.

- The ThinLINE® unit combines maximum capacity and airflow, with pinpoint temperature control, to ensure uniform protection throughout the load.
- The EverFRESH® controlled atmosphere option maintains a constant balance of oxygen and carbon dioxide to slow the natural ripening process.

The EverFRESH system allows crops to ripen longer in the field, making them higher in weight, sugar content, and nutritional value. The EverFRESH system also inhibits bacterial growth, helps control insect infestation, and minimizes product spoilage.



## • Create and control the ideal climate.

The EverFRESH® system preserves just-picked freshness inside the box, allowing harvest closer to maturity.



## • The workhorse of the industry.

Field-proven to support the most demanding requirements, the Carrier 06D semihermetic compressor delivers full capacity with exceptional reliability. The 06D compressor is the standard by which all others are measured.

## • Worldwide coverage, expert assistance.

International field support is a major Carrier strength. Our field engineers speak many languages. Our 24-hour hotline provides toll-free assistance. And we offer training courses, basic to advanced, at many locations worldwide.



## • The preferred choice of growers, importers, and shippers.

Carrier sells, services, and supports more container systems than anyone. Every component, system, and customer receives equal attention. Dependable operation and expert support have made Carrier the first choice for first-class protection.



## • Simple operation, reliable performance.

The ThinLINE unit's non-ozone-depleting HFC-134a 06D compressor is the standard for long-life reliability. Balanced system design ensures maximum product protection and operating efficiency. Design simplicity ensures trouble-free operation.

## • Carrier brings you the complete package.

Advanced equipment, expert assistance, and global support make Carrier the first choice for uninterrupted cargo quality control from field to market. People, products, and protection. Our Complete Package means complete confidence.



# PERFORMANCE SPECIFICATIONS

## ThinLINE®



Cooling Capacity: Ambient @ 38°C (100°F) with Industry Standard Carrier 06D Reciprocating Compressor; HFC-134a

Temperature	Watts	Btu/hr
2°C (35°F)	10,250	35,000
-18°C (0°F)	6,010	20,500
-29°C (-20°F)	3,100	10,600

Specifications are subject to change without notice.

### Standard Features:

#### Refrigeration System

- Carrier 06D semihermetic compressor
- Zero-ODP HFC-134a
- Stepper-modulation capacity control
- High-efficiency evaporator and formed condenser coils
- Electrostatically coated all-copper condenser coil
- Three-phase condenser and dual-speed evaporator fan motors and vane-axial fans
- Refrigerant receiver with sight glass, Al coated steel for superior corrosion prevention
- ATO (Sprengrer)-accepted adjustable fresh-air exchange

#### Electrical System

- System wired for 380/460volt-3ph-50/60Hz power
- Safe 24-volt AC control circuit with fuse protection
- Main power circuit breaker
- 18m (60-ft) power cable with attached CEE-17 plug
- Electric heat

#### Control System

- DataCorder™ electronic data recorder
- Back-lit LCD displays
- Time-delay motor start sequence
- Current-limiting feature
- Cool, Heat, Defrost, In-Range, Alarm indicator lights
- Micro-Link® 3 modular controller with dual sensors
- Selectable timed electric defrost (3-, 6-, 9-, 12-, or 24-hour settings) or automatic defrost
- Interrogator plug
- Manual defrost initiation
- Energy-saving Economy Mode
- evaporator motor logic

#### Convenience Features

- Removable front service panels
- Forklift pockets
- TIR compliant

#### Provisions

- Dual voltage transformer
- Fresh-air vent position sensor

### Accessories and Options:

- USDA cold-treatment recording package
- Rechargeable power-up battery pack
- Dehumidification control
- Quick-connect 190/230volt-50/60Hz dual-voltage transformer module
- Optional 230-volt plug (specify)
- Optional 460-volt plug
- Electronic power line communication module (RMU)
- Cable retainer
- Low-position air-exchange control
- Bungee cord
- Door with catch
- Remote monitoring receptacle (ISO 4-wire)
- Thermometer insertion ports
- Supply air
- Return air
- Suction and Discharge mechanical pressure gauge set
- System temperature sensors
- Suction
- Discharge
- Pressure transducers
- Suction
- Discharge
- Convenience handles
- Center
- Left
- Rain gutters (bolted or riveted)
- EverFRESH® controlled atmosphere
- eAutoFresh™ on-demand ventilation
- QUEST power-saving mode
- Fresh-air vent position sensor
- Voltage shields
- Special control modes
- Bulb
- ACT / ASC
- Nitrogen ports
- Arctic Kit
- Top air flow design
- LED display
- Hinged rear bulkhead panel with quick-release fasteners
- Interrogator plug location inside control box
- Certification: ABS, BV, KRS, GL
- CE marking

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