



**EliteLINE**



*Premium cargo protection. Premium environmental responsibility.*

# EliteLINE

The inspiration for a system that's safer for nature came from nature.



Chambered Nautilus  
Nautilus Pompilius

The chambered nautilus is a unique shellfish. With a unique shell. Its design symmetry is found nowhere else in nature. The curvature of the interior chamber walls gives the shell tremendous strength. As a result, it can withstand extreme pressure at tremendous depth.



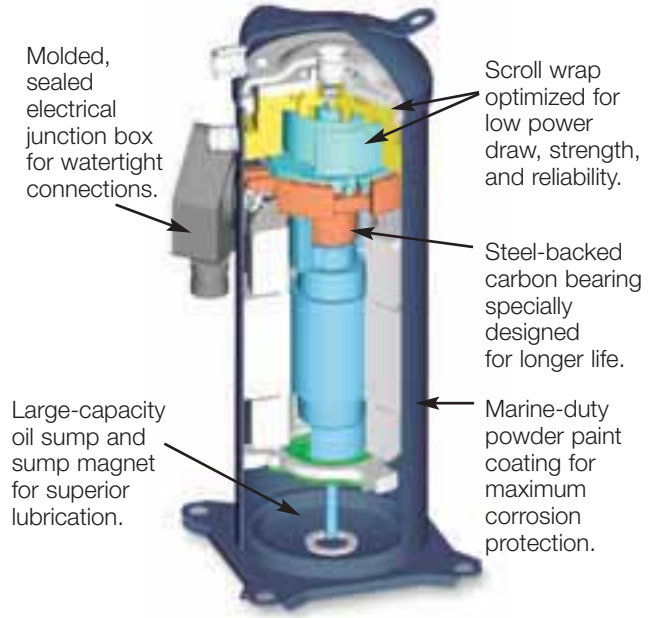
Like the nautilus, our EliteLINE™ scroll compressor design is unique. So unique, it is patented. It is specially built to meet the performance demands of container refrigeration under extreme conditions at sea.

The inner chamber of the EliteLINE scroll compressor features our patented wrap geometry. The walls are tapered, making them thicker than the standard air conditioning spiral. This higher-strength wall design maximizes efficiency and reliability. It also increases capacity without increasing frame size. The result: higher cooling capacity, using non-ozone-depleting HFC-134a. Ensuring industry-low GWP (Global Warming Potential).



Scroll-wrap tapered inner wall is thicker and more robust.

Exclusive EliteLINE scroll compressor design patented by Carrier.



# EliteLINE. Unmatched refrigeration performance. Advanced environmental responsibility.

It is all here. Everything you want in container refrigeration. To meet your changing needs in an increasingly competitive world market. Innovative scroll wrap technology. Proven world-class performance. Exceptional cargo protection. And unmatched environmental responsibility. A product of Carrier's extensive experience in compressor manufacturing and industry leadership in reliable performance.

EliteLINE with purpose-built, patented scroll compressor, charged with HFC-134a. High capacity, high strength, and light weight. With industry-low GWP. Everything you need in a single-scroll platform to protect your cargoes. With minimal impact on the environment.



### MicroLink 3. The user-friendly controller that thinks of everything.

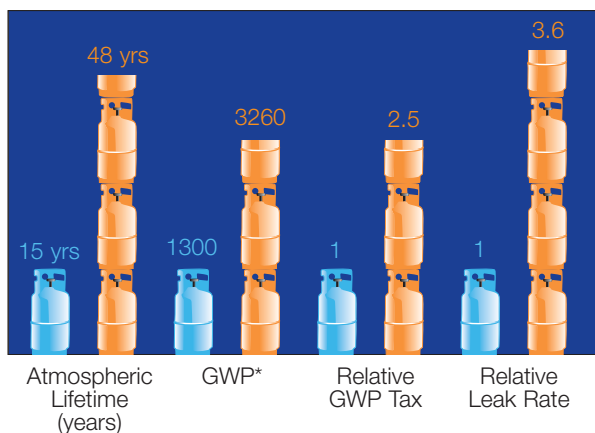
MicroLink™ 3 provides state-of-the-art electronic temperature control to meet even the most demanding applications. In a user-friendly platform that is fast and remarkably easy to operate, diagnose, and service. The entire DataCorder™ memory can be downloaded to the DataBank™ PC card in seconds. Incorporated into the EliteLINE system,

MicroLink 3 delivers the same reliability, interchangeability, and accuracy field-proven in our industry-leading ThinLINE™ platform.



The MicroLink 3 controller.

### HFC-134a proves that less is more.



\*CO<sub>2</sub> = 1 as defined in the Intergovernmental Panel for Climate Change (IPCC)

## EliteLINE. The container reefer designed to be one of the industry's elite.



- Patented state-of-the-art electrostatically coated copper fin, tube, and tube sheet condenser coil for superior corrosion protection.
- Lightweight, corrosion-proof composite condenser fan.
- High capacity from a single HFC-134a scroll compressor. Exclusive design patented by Carrier.
- MicroLink 3 microprocessor controller. Program upgrades and DataCorder downloads in seconds with the new DataBank PC card. Backward compatibility with MicroLink 2i ensures seamless transition to MicroLink 3.
- Front panels provide quick access to evaporator motors and fans. Evaporator motor mounted for quick removal of modular fan, fan stator, and motor assembly, if required.

- Addressed-wire coding speeds service.
- 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.
- Evaporator coil with copper tubing and aluminum fins, treated for improved condensate drainage.
- Symmetrical bottom-air delivery into T-bar floor for better air distribution.

- Electric defrosting and heating.
- Slant-top return-air grille for higher load line, allowing more cargo.
- Lightweight aluminum frame and rear bulkhead exceed ISO racking and end-loading requirements.
- Peripheral seal reduces heat leakage.
- PVC-insulated spacer extends life, eliminates concern about insect infestation.
- Superior condensate collection system helps keep cargo dry.
- Auto defrost takes the guesswork out of setting defrost intervals while providing up to 40% power savings.





# EliteLINE

## The first scroll compressor specially built for container refrigeration.

There is no value in compromise. So our designers didn't compromise EliteLINE performance. Rather than modify existing scroll technology from less-demanding air conditioning applications, we built a scroll compressor exclusively for container refrigeration. Our innovative, exclusive EliteLINE container refrigeration system features Carrier's patented scroll

wrap geometry. It is the specially built, single-scroll platform that uses non-ozone-depleting HFC-134a. As a result, EliteLINE offers industry-low GWP. It delivers the most advanced protection for your sensitive cargoes.



### **EliteLINE is safer for the environment while protecting your cargo.**

This high-performance, single-scroll HFC-134a system generates higher cooling capacity for superior cargo protection. Low GWP combined with high COP results in a better unit for the environment.



### **Superior airflow, consistent air distribution throughout the container.**

Symmetrical bottom air delivery provides more even air distribution – and temperature distribution – throughout the box. So you can be sure of consistent cargo quality front to back, side to side.



### **Expert service and support in every major seaport worldwide.**

Wherever your destination, Carrier offers expert service and parts support. Our 24-hour hotline provides toll-free assistance. And our factory-trained field engineering group is conversant in 23 languages.



### **Carrier's HFC-134a scroll compressor improves COP 15%.**

EliteLINE with HFC-134a generates more cooling capacity for every unit of power consumed. This reduces operating costs. It also reduces emissions. Making it the first choice for environmental efficiency.

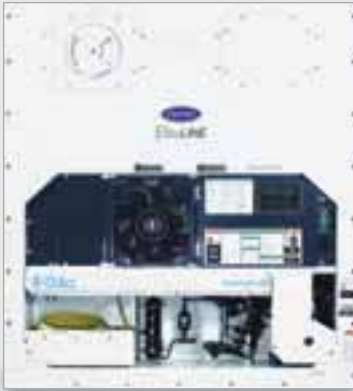


### **Lower Global Warming Potential, pay less GWP tax.**

Industry-accepted, non-ozone-depleting HFC-134a's GWP rating is 2.5 times lower than R-404A. Any tax based on GWP would be 2.5 times higher for R-404A. Consider your cost savings with competitively priced HFC-134a.

# PERFORMANCE SPECIFICATIONS

## EliteLINE



Cooling Capacity: Ambient @ 38°C (100°F) with Purpose-Built RS-105 Scroll Compressor; HFC-134a

Temperature	Watts	Btu/hr
2°C (35°F)	10,550	36,000
-18°C (0°F)	6,160	21,000
-29°C (-20°F)	3,960	13,500

Specifications are subject to change without notice.

### Standard Features Include:

Advanced Carrier purpose-built RS-105 scroll compressor  
 Zero-ODP HFC-134a  
 Enhanced MicroLink™ 3 modular controller with dual probes  
 DataCorder™ electronic data recorder  
 Energy-saving Economy Mode evaporator motor logic  
 Exclusive dual back-lit LCD displays  
 Time-delay motor start sequence  
 Current-limiting feature  
 Pressure-limiting feature  
 Exclusive stepper-modulation capacity control  
 High-efficiency evaporator and condenser coils  
 Electrostatically coated all-copper condenser coil  
 System wired for 380/460volt-3ph-50/60Hz power  
 Safe 24-volt AC control circuit with fuse protection  
 Cool, Heat, Defrost, In-Range, Alarm indicator lights  
 Bottom air discharge  
 Main power circuit breaker  
 18m (60-ft) power cable with attached CEE-17 plug  
 Electric heat  
 Selectable timed electric defrost (3-, 6-, 9-, 12-, or 24-hour settings) or automatic defrost  
 Manual defrost initiation  
 Aluminum rear bulkhead  
 Removable front service panels  
 Single-phase dual-speed evaporator fan motors and vane-axial fans  
 ATO (Sprenger)-accepted adjustable fresh-air exchange  
 TIR  
 Forklift pockets  
 Document holder  
 Refrigerant receiver with dual sight glass, electrostatically coated copper for superior corrosion prevention  
 Low air leakage: less than 0.14 CMH (5 CFH) at 50.8 mm (2 in.) w.g.  
 Suction and discharge temperature sensors  
 Suction and discharge pressure transducers  
 Provisioned for:  
 Dehumidification control  
 USDA cold treatment  
 Water-cooled condenser  
 Remote monitoring  
 Dual voltage (when applicable)  
 Fresh-air vent position sensor

### Accessories and Options:

USDA cold-treatment recording package  
 Rechargeable power-up battery pack  
 Chart recorder options  
 Electronic Partlow 31-day 203mm (8.0 in.) chart recorder  
 Auto calibration  
 Saginomiya 31-day 203mm (8.0 in.) chart recorder  
 Simpson lead for calibration  
 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)  
 Water-cooled condenser system  
 Low-position air-exchange control, 0-75 CMH (0-44 CFM)  
 Cable retainer  
 Bungee cord  
 Door with catch  
 Remote monitoring receptacle (ISO 4-wire)  
 Certification: ABS, BV, KRS, GL  
 Hinged rear bulkhead panel with quick-release fasteners  
 Thermometer insertion ports  
 Supply air  
 Return air  
 Convenience handles  
 Center  
 Left and Right  
 Rain gutters  
 CE marking  
 Fresh-air vent position sensor  
 Emergency Bypass System (EBS)

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