

# 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 environmentally friendly R-134a. As a result, EliteLINE offers industry-low GWP and TEWI, and zero-ODP. It delivers the most advanced protection for your sensitive cargoes. In the field of container refrigeration.



**EliteLINE protects the environment as it protects your cargo.**

This high-performance single-scroll system uses environmentally friendly R-134a. It generates higher cooling capacity, for superior cargo protection. And it has industry-low GWP and TEWI.



**Uses only one scroll per reefer to meet capacity ratings.**

The exclusive EliteLINE single-scroll system generates full deep-frozen capacity, 13,500 Btu/hr (3,960 watts), *without* requiring two compressors. Another way the industry leader puts your needs first.



**Higher capacity, zero-ODP, worldwide acceptance.**

Innovative EliteLINE design generates higher capacity with better energy efficiency. Worldwide acceptance of R-134a means availability in greater volume at more competitive pricing.



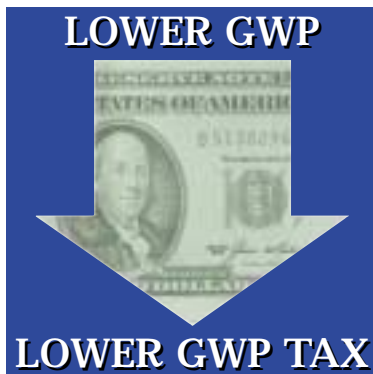
**Lighter weight, high COP, industry-low TEWI.**

R-134a has a significantly lower GWP rating than R-404A. This, combined with lighter-weight construction and a high COP, results in industry-low TEWI. And environmentally friendly performance.



**Over 20% increased capacity at -20°F (-29°C) setpoint to deliver 13,500 Btu/hr (3,960 watts).**

Our purpose-built RS-105 scroll compressor and environmentally friendly R-134a generate industry-leading deep-frozen product protection.



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

R-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 R-134a.



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

EliteLINE with R-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.



**Holds deep frozen at high ambient temperatures.**

With EliteLINE and R-134a, you can hold deep frozen loads at -25°C, at 50°C ambient temperature. Competitive R-404A scroll units can't match our high-ambient performance.

# PERFORMANCE Specifications

## EliteLINE R-134a



Cooling Capacity: Ambient @ 38°C (100°F) with Purpose-Built RS-105 Scroll Compressor; R-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 R-134a  
Enhanced MicroLink™ 2i 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  
Energy-saving Condenser Pressure 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  
Adjustable timed electric defrost (3-, 6-, 9-, 12-, or 24-hour settings)

Manual defrost initiation switch  
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.  
Composite control box  
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)

### Accessories and Options:

USDA cold-treatment recording package  
Rechargeable power-up battery pack  
Chart recorder options  
– Electronic Partlow chart recorder  
Uses 31-day 203mm (8.0 in.) chart recorder  
Auto calibration  
– Mechanical Partlow chart recorder  
Uses 31-day 203mm (8.0 in.) chart recorder  
Simpson lead for 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  
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

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# Carrier Transicold



## *Elite*LINE



*Premium*  
CARGO  
protection.  
*Premium*  
ENVIRONMENTAL  
protection.

*The  
Complete  
Package.*

The *inspiration* for a system that *protects* NATURE came from *nature*.

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,



Chambered Nautilus  
*Nautilus Pompilius*



it can withstand extreme pressure at tremendous depth.

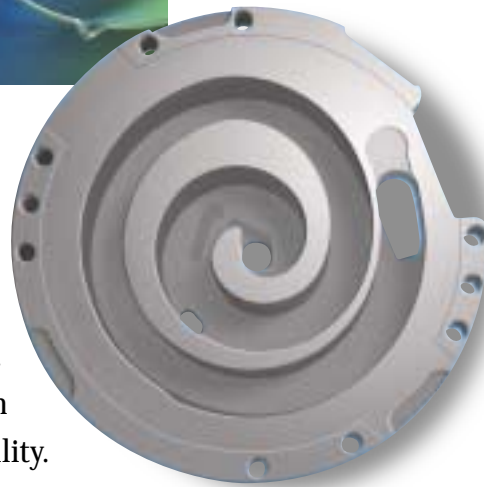
Like the nautilus, our new EliteLINE™ scroll compressor design is unique.

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 environmentally friendly R-134a. Ensuring industry-low GWP and TEWI ratings, and zero-ODP.



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



*Exclusive EliteLINE scroll compressor design patented by Carrier.*

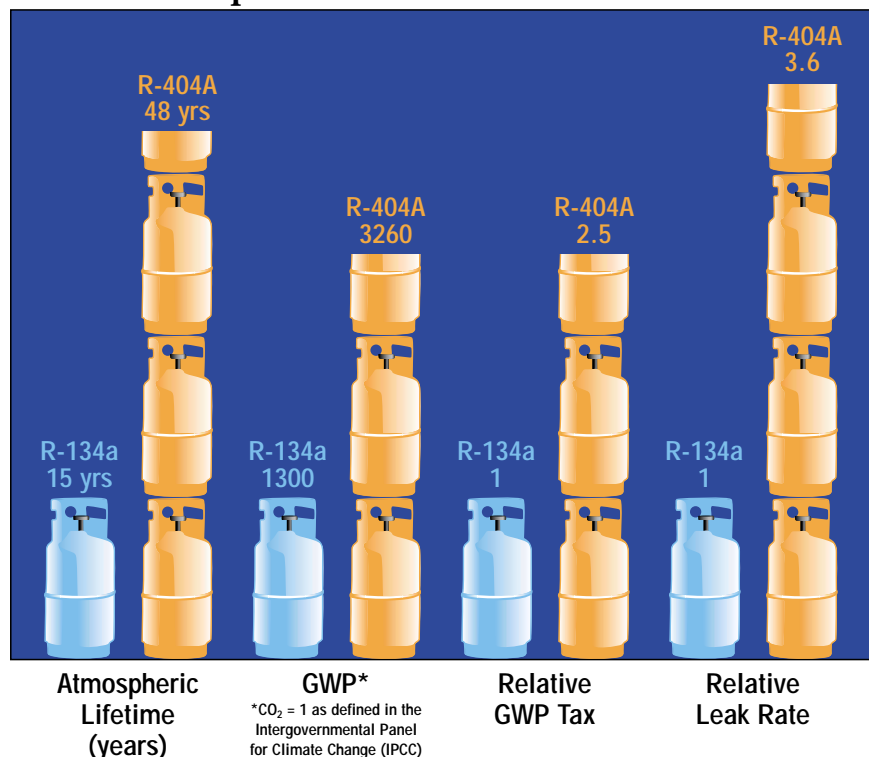
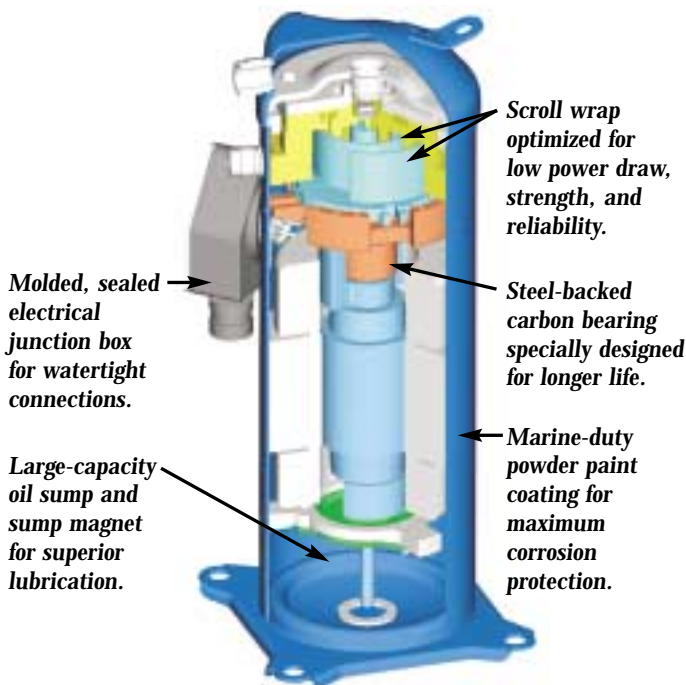
# EliteLINE. Unmatched refrigeration PERFORMANCE

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.



- 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 R-134a scroll compressor. Exclusive design patented by Carrier.
- Microprocessor controls with easily configured, snap in/out, card-programmable software, standard. Modular design, advanced computer logic, easy to operate, upgrade, diagnose, and service.
- Front panels provide quick access to evaporator fan motor, fans, and heaters. 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.

## R-134a proves that *less is MORE*.



# NCE. Advanced environmental PROTECTION.

EliteLINE with innovative scroll compressor, charged with R-134a. High capacity, high strength, and light weight. With industry-low GWP and TEWI ratings, and zero-ODP. Everything you need in a single-scroll platform. It is the specially built single-scroll platform that is patented and uses environmentally friendly R-134a. To protect your cargoes. As you protect the environment.

- 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.



## MicroLink 2i. The *user-friendly* CONTROLLER that thinks of *everything*.

MicroLink™ 2i provides state-of-the-art electronic temperature control to meet even the most demanding applications. In a user-friendly platform that is remarkably easy to operate, diagnose, and service. Incorporated into the EliteLINE system, MicroLink 2i delivers the same reliability, interchangeability, and accuracy field-proven in our industry-leading ThinLINE™ platform with industry-standard reciprocating compressor.



*The MicroLink 2i controller.*