

# Naturally *Serviceable*



When developing the NaturaLINE® unit, Carrier Transicold kept the need to make it easy for shipping lines to transition from refrigerated containers using synthetic refrigerants to those using carbon dioxide (CO<sub>2</sub>) in the forefront.

The NaturaLINE unit is as easy to operate and service as all other Carrier Transicold container refrigeration units, which are considered to be industry standard. While the NaturaLINE system incorporates new technologies to optimize refrigerant performance, the basic frame, evaporator fans and the controller are based on proven Carrier Transicold models.

Operators familiar with other Carrier Transicold units will find no difference in setting up and managing refrigeration parameters for the NaturaLINE unit. It features the easy-to-use Micro-Link® 3 controller, the same system used on other Carrier Transicold container models from today's ThinLINE® units through standard PrimeLINE® units.

## At Your Service

When it comes to maintenance, the NaturaLINE unit has enough in common with other Carrier Transicold container units that service personnel can easily transfer their experience from one design to the next. Gauges and fittings are specific to CO<sub>2</sub> and, as with other replacement components, are globally available. And the natural refrigerant CO<sub>2</sub> is not only widely available worldwide, but it is also cost-effective.

Carrier Transicold provides NaturaLINE unit ship kits for service at sea. Included components are similar to, although not necessarily interchangeable with, those found in other Carrier Transicold ship kits.

For maintenance technicians, Carrier Transicold has integrated the NaturaLINE unit into its comprehensive training program. Carrier Transicold-trained technicians can quickly and easily learn how to service the NaturaLINE unit.



United Technologies  
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## Performance Optimized

One key difference between traditional refrigeration units and the NaturaLINE unit is that the CO<sub>2</sub> refrigerant-based system operates at higher pressure than HFC-based systems – up to 1,800 psi (125 bar). To accommodate higher pressure, the NaturaLINE system's rugged design and construction helps assure its safety and reliability. For example, refrigerant tubes and other system components use thicker-walled material. The NaturaLINE design adheres to BS EN378-2 standards, and components are tested at pressures well beyond the maximums the unit will see in service use.

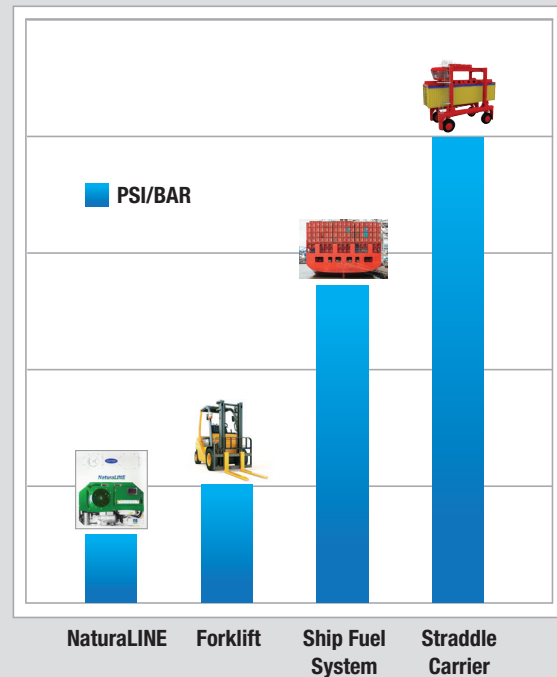
With regard to operating pressures, there is virtually no difference in servicing a NaturaLINE unit and traditional Carrier Transicold units using pressurized HFC refrigerants. The same precautions apply.

When it comes to familiar operation and maintenance, the NaturaLINE unit with CO<sub>2</sub> refrigerant is indeed the naturally serviceable choice.

### CO<sub>2</sub> REFRIGERANT FUNDAMENTALS

- GWP of one, the lowest global warming potential of all potential refrigerant alternatives
- Non-ozone depleting
- Nonflammable and nontoxic at low concentration (ASHRAE 34 safety classification A1)
- Protected against phaseouts, taxes and F-gas regulations
- Cost-effective, available worldwide, requires no special disposal
- Efficient

### Equipment Operating Pressures



*Operating pressures of a NaturaLINE system are a fraction of the pressures required by forklifts, straddle carriers, winches and watertight doors typically encountered by service personnel on ships and at depots.*

*(Source: Carrier Corporation)*



# NaturaLINE®

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