Free your refrigeration from emissions
ENGINELESS REFRIGERATION TO REDUCE YOUR ENVIRONMENTAL IMPACT

-60 dB(A)
LOW NOISE EMISSIONS

Euro 6
STANDARDS
Constant power, efficiency and sustainability

Carrier Transicold has expanded our product range by introducing a new generation of engineless transport refrigeration technology*.

These high cooling capacity refrigeration units run entirely on hydro-electric power generated by a truck’s ultra-clean Euro 6 engine - cutting emissions and maintenance costs, while improving fuel efficiency.

Carrier Transicold is committed to providing customers with advanced, energy-efficient and environmentally sustainable refrigeration units. Our new engineless product range helps our customers meet the current environmental standards and regulations, while also improving overall sustainability for fleets.

* Following the acquisition of a Dutch company, TRS Transportkoeling b.v. (TRS), in 2016.
The truck is the energy source

The ECO-DRIVE is a power module that uses hydro-electric technology. The hydro pump is connected to the truck’s power take-off motor to deliver electrical power to the refrigeration unit.

**KEY BENEFITS**

**PERFORMANCE**
- Constant power
- Cold chain efficiency

**MINIMUM ENVIRONMENTAL IMPACT**
- Piék Certified
- Suitable with LNG/CNG-powered trucks
THE ECO-DRIVE MODULE

1 HYDRAULIC MOTOR
The hydraulic motor transforms hydraulic energy into rotational movement.

2 GENERATOR
Connected to the hydraulic motor, the generator gives an output of steady current and voltage: 400V/3/50/60H.

3 CONTROLS
The control box integrates a microprocessor and allows management of all components and operational logic.

4 SERVICE ACCESS
Maintenance is needed every 400,000 km. Components requiring maintenance are right out front to ensure fast and easy access.

GET THE BENEFITS OF CONTINUOUS ONBOARD ELECTRICAL ENERGY

Integrated into the hydraulic system is a control unit that ensures the generator consistently runs the same number of revolutions. This maintains constant power, even when the truck is idling in heavy traffic. ECO-DRIVE requires little maintenance. The technology is also exceptionally quiet, and PIEK certified - meaning it can operate below 60 decibels, which makes it ideal for night-time deliveries in urban areas.

Optimized efficiency at every moment of the use cycle

OPTIMIZED ENERGY CHAIN

Engineless solution’s energy chain maximizes the system’s overall reliability and efficiency.

MAXIMUM AND CONSTANT POWER

The hydraulic system drives a generator that constantly delivers 400 Volt / 50 Hz, regardless of the engine revolutions of the truck engine.

100% CAPACITY AT IDLE SPEED

ECO-DRIVE technology ensures maximum, constant power, whatever the vehicle’s operating speed or traffic conditions.

100% CAPACITY AT IDLE SPEED

INTUITIVE CAB COMMAND

HYDRAULIC ENGINE

GENERATOR

ECO-DRIVE 25/30

ECO-DRIVE 35/40/45
High efficiency for your single-temperature needs

Combined with an ECO-DRIVE™, the Iceland & Syberia units ensure maximum power even at idle speed. The embedded E-DRIVE all-electric technology guarantees highly efficient power.

**KEY BENEFITS**

**PERFORMANCE OF TEMPERATURE CONTROL**
- 100% refrigeration and heating power, whatever the truck’s engine speed
- E-DRIVE Technology: efficient, silent and hermetic

**MINIMUM ENVIRONMENTAL IMPACT**
- A sustainable solution (Euro 6 Engine, R452A, hermetic technology…)
- A city solution below 60 dB(A), Piek certified

**THE UNDERMOUNT SOLUTION**

**Iceland 8 & 11**
Up to 10,300 W at 0°C in an under-chassis refrigeration group 1 m long. A combination of power and efficiency integrated into a chassis, a body of 100% anti-corrosion stainless steel and aluminum.

**THE NOSEMOUNT SOLUTION**

**Syberia 8 & 11**
Light and compact. More than 10 kW available, with a choice of a single-flow evaporator or a dual-flow evaporator, both extra flat. Note that the Syberia line can also integrate the ECO-DRIVE function to maximize system compactness even more.
**THE TRAILER SOLUTION**

**Vector® 1550 E**

The engineless technology is also adapted for trailers. Providing 12,600 Watts, the Vector 1550 E is designed without the diesel engine for a sustainable and low noise operation. Combined with an ECO-DRIVE 25, it provides a powerful solution for engineless trailer refrigeration.

---

**1 COMPRESSOR**

Thanks to the use of a Scroll hermetic compressor, optimal output is achieved while maintaining power, efficiency and reliability.

**2 CONDENSOR**

The optimization of the refrigeration circuit allows for a smaller condenser size.

**3 ECONOMIZER**

The economizer optimizes thermal exchanges between the refrigerant entering and leaving the evaporator.

**4 EVAPORATOR**

Carrier Transicold offers two extra slim evaporator models adaptable to all configurations.

---

**EXTRA FLAT EVAPORATOR RANGE**

- LL2D
- LL3
Multi-temperature without compromise: Powerful & efficient

Through the combination of two hermetic refrigeration circuits mounted in parallel, our Twincool solutions offer very high continuous capacity for multi-temperature applications.

**KEY BENEFITS**

**PERFORMANCE OF TEMPERATURE CONTROL**

- 100% refrigeration and heating power per circuit, whatever the truck’s engine speed
- Twincool technology: two hermetic refrigeration circuits connected in parallel
- A large range of extra flat evaporators

**MULTI-TEMPERATURE & UNDERMOUNT SOLUTION**

**Iceland 18 Twincool**

Cooling and heating at the same time, the Iceland 18 Twincool refrigeration unit is designed with two completely separate refrigeration circuits. Light and compact, the Iceland offers exceptional power and efficiency for multi-temperature needs in boxes up to 120 m³.

**MULTI-TEMPERATURE & NOSEMOUNT SOLUTION**

**Syberia 18 Twincool**

Integrating the ECO-DRIVE module within its design, the Syberia 18 Twincool delivers a 18,000 Watts capacity while weighing only 340 kg. Three evaporator models are available to cover a maximum of configurations.
The Vector 1950 E MT is the multi-temperature version of engineless trailer refrigeration. Providing a high capacity output of 14,400 W at 0°C/30°C, it allows for multiple box configurations to transport the most sensitive goods in various compartments.

**THE TRAILER SOLUTION**

**Vector® 1950 E MT**

The Vector 1950 E MT is the multi-temperature version of engineless trailer refrigeration. Providing a high capacity output of 14,400 W at 0°C/30°C, it allows for multiple box configurations to transport the most sensitive goods in various compartments.
Flexibility above all

Carrier Transicold offers a full range of engineless refrigeration units for trucks in single- or multi-temperature, providing a cooling capacity of up to 18 kilowatts (0°C/30°C).

**TRUCK**
Syberia / Iceland =

**DRAWBAR**
Syberia / Iceland / Vector® =

**TRAILER**
Iceland / Vector =

---

### SPECIFICATIONS

**SELECT YOUR UNIT**

<table>
<thead>
<tr>
<th>COOLING CAPACITIES (ATP)</th>
<th>ICELAND 8</th>
<th>ICELAND 11</th>
<th>ICELAND 18 MT Twincool</th>
<th>SYBERIA 8</th>
<th>SYBERIA 11</th>
<th>SYBERIA 18 MT Twincool</th>
</tr>
</thead>
<tbody>
<tr>
<td>62 Hz</td>
<td>LL3</td>
<td>LL2D</td>
<td>LL3</td>
<td>LL3</td>
<td>LL2D</td>
<td>LL1D dual</td>
</tr>
<tr>
<td>6°C/30°C</td>
<td>W</td>
<td>8074</td>
<td>8346</td>
<td>9871</td>
<td>9898</td>
<td>10376</td>
</tr>
<tr>
<td>-20°C/30°C</td>
<td>W</td>
<td>3924</td>
<td>4037</td>
<td>5767</td>
<td>5754</td>
<td>5462</td>
</tr>
<tr>
<td>50 Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6°C/30°C</td>
<td>W</td>
<td>7378</td>
<td>7540</td>
<td>8997</td>
<td>9349</td>
<td>8332</td>
</tr>
<tr>
<td>-20°C/30°C</td>
<td>W</td>
<td>3924</td>
<td>3765</td>
<td>5297</td>
<td>5369</td>
<td>5075</td>
</tr>
<tr>
<td>50 Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6°C/30°C</td>
<td>W</td>
<td>8070</td>
<td>8350</td>
<td>9870</td>
<td>9900</td>
<td>10100</td>
</tr>
<tr>
<td>-20°C/30°C</td>
<td>W</td>
<td>3920</td>
<td>4040</td>
<td>5770</td>
<td>5750</td>
<td>5460</td>
</tr>
<tr>
<td>50 Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6°C/30°C</td>
<td>W</td>
<td>7380</td>
<td>7540</td>
<td>9000</td>
<td>9350</td>
<td>8330</td>
</tr>
<tr>
<td>-20°C/30°C</td>
<td>W</td>
<td>3920</td>
<td>3770</td>
<td>5300</td>
<td>5370</td>
<td>5080</td>
</tr>
</tbody>
</table>

**HEATING CAPACITIES**

<table>
<thead>
<tr>
<th>HEATING CAPACITIES (MKT)</th>
<th>ICELAND 8</th>
<th>ICELAND 11</th>
<th>ICELAND 18 MT Twincool</th>
<th>SYBERIA 8</th>
<th>SYBERIA 11</th>
<th>SYBERIA 18 MT Twincool</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 Hz</td>
<td>LL3</td>
<td>LL2D</td>
<td>LL3</td>
<td>LL3</td>
<td>LL2D</td>
<td>LL1D dual</td>
</tr>
<tr>
<td>6°C/30°C</td>
<td>W</td>
<td>6000</td>
<td>5680</td>
<td>6000</td>
<td>5680</td>
<td>4000</td>
</tr>
<tr>
<td>-20°C/30°C</td>
<td>W</td>
<td>6000</td>
<td>5680</td>
<td>6000</td>
<td>5680</td>
<td>4000</td>
</tr>
<tr>
<td>62 Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6°C/30°C</td>
<td>W</td>
<td>7956</td>
<td>7532</td>
<td>7956</td>
<td>7532</td>
<td>5304</td>
</tr>
<tr>
<td>-20°C/30°C</td>
<td>W</td>
<td>7956</td>
<td>7532</td>
<td>7956</td>
<td>7532</td>
<td>5304</td>
</tr>
</tbody>
</table>

**AIRFLOW**

<table>
<thead>
<tr>
<th>AIRFLOW</th>
<th>ICELAND 8</th>
<th>ICELAND 11</th>
<th>ICELAND 18 MT Twincool</th>
<th>SYBERIA 8</th>
<th>SYBERIA 11</th>
<th>SYBERIA 18 MT Twincool</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 Hz</td>
<td>LL3</td>
<td>LL2D</td>
<td>LL3</td>
<td>LL3</td>
<td>LL2D</td>
<td>LL1D dual</td>
</tr>
<tr>
<td>AMCA 21085 m³/h</td>
<td>2993</td>
<td>3277</td>
<td>2993</td>
<td>2993</td>
<td>3277</td>
<td>2993</td>
</tr>
<tr>
<td>62 Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMCA 21085 m³/h</td>
<td>3426</td>
<td>3739</td>
<td>3426</td>
<td>3426</td>
<td>3739</td>
<td>3426</td>
</tr>
</tbody>
</table>

**WEIGHTS**

<table>
<thead>
<tr>
<th>Host unit only</th>
<th>Standard kg</th>
<th>&quot;i&quot; version kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>142</td>
<td>310</td>
</tr>
<tr>
<td>142</td>
<td>224</td>
<td>310</td>
</tr>
<tr>
<td>210</td>
<td>210</td>
<td>365</td>
</tr>
</tbody>
</table>

**DIMENSIONS (Host unit)**

<table>
<thead>
<tr>
<th>H x W x D mm</th>
<th>586 x 1035 x 572</th>
<th>586 x 1444 x 572</th>
<th>545 x 1979 x 729</th>
<th>545 x 1979 x 729</th>
</tr>
</thead>
</table>

**REFRIGERANT**

<table>
<thead>
<tr>
<th>Refrigerant Type / Charge</th>
<th>ICELAND 8</th>
<th>ICELAND 11</th>
<th>ICELAND 18 MT Twincool</th>
<th>SYBERIA 8</th>
<th>SYBERIA 11</th>
<th>SYBERIA 18 MT Twincool</th>
</tr>
</thead>
<tbody>
<tr>
<td>R452A / 6.0 kg</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R452A / 12.0 kg</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R452A / 6.0 kg</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R452A / 12.0 kg</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
More than 600 service centers
With over 600 locations throughout Europe, Middle East, Africa & Russia, Carrier Transicold Europe provides customers with a wide refrigerated truck and trailer service network.

More than 2,200 technicians
We place great focus on engineless technical training and spare parts supply, and have developed our PACE (Performance Assessment & Competitive Excellence) program to ensure speed and quality of response go hand in hand.

24/7 assistance, we are just one call away
With oneCALL™ service, our team is on hand to help get you back on the road as soon as possible - 24/7/365.

A full service maintenance agreement
With everCOLD maintenance agreement, you can be confident in receiving the optimum level of product support to help keep your fleet operating efficiently and effectively.
What do refreshing watermelon on a hot summer day, exquisitely fresh-cut flowers, and much-needed medicine for a loved one have in common?

Carrier Transicold - a key link in the chain of life.