



NEOS

CONFIDENCE IN LAST MILE ELECTRIC SOLUTIONS



NEOS RANGE

COMBINING FLEXIBILITY AND ELECTRICITY FOR CITY DELIVERY

In tune with its time, the Neos refrigeration range is expanding and adapting to today's challenges of city delivery with the Neos HE - High Efficiency, offering electric-powered solutions for vehicles up to 12 m³. With two installation concepts, Neos can be integrated into the vehicle or fitted externally and is a versatile and reliable choice for customers operating in cities looking for reliability, sustainability and driver comfort.



NEOS HE 100S
NEOS HE 200S*



NEOS 100 - integrated

Key benefits



Constant cooling capacity:

12V architecture allowing 100% of cooling capacity no matter the vehicle state of operation.



Fully electric unit:

Compatible with 12V battery packs.



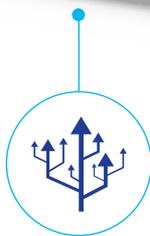
Improved electrical consumption:

-24% consumption**.



High reliability:

Electric drive for less source of leaks***.



High versatility:

- Unit suitable with battery electrical vehicle (BEV)
- Plug-in hybrid electrical vehicle (PHEV)
- Internal combustion engines (ICE - Diesel, gas or petrol engines).



Environmentally sustainable:

Using low GWP refrigerants R134A & R452A

*** Compared to conventional LCV technologies

*Available in 2022

**Compared to legacy Neos 100S

Evaporators



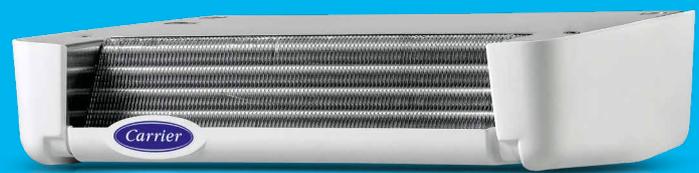
Improved evaporator efficiency

- Improved heat exchange
- Up to 34% more cooling capacity**
- Compatible with vehicles up to 12 m³
- Extra flat evaporator



Environmentally sustainable

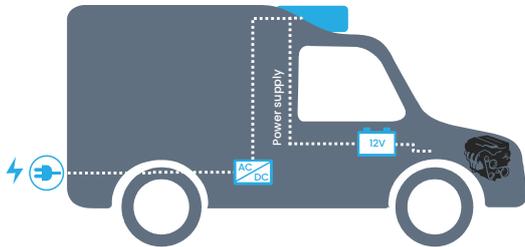
- Environmentally sustainable, using R134A or R452A for a low GWP
- High efficiency leading to less power used for the same application
- Reduced energy consumption
- Compatible with zero emission solutions



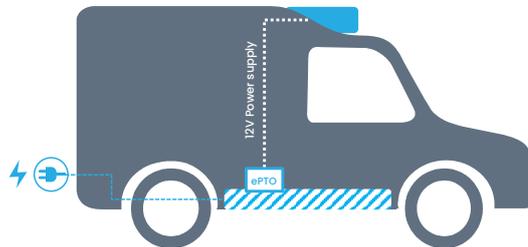
ELECTRIFICATION & AUTONOMY

Energy management system

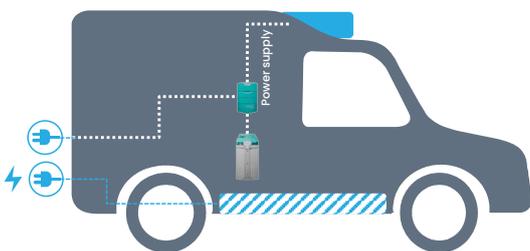
ICE VEHICLES



BEV OPTION 1



BEV OPTION 2



ICE VEHICLES :

Road operation on truck 12V battery through vehicle alternator.
Standby operation with Neos standby module option

BEV OPTION 1 :

Road operation on truck 12V ePTO through OEM DC/DC converter.
Standby operation on truck 12V ePTO during truck power train recharge

BEV OPTION 2 :

Road operation on Carrier approved Mastervolt battery pack
Standby operation on battery pack while recharging

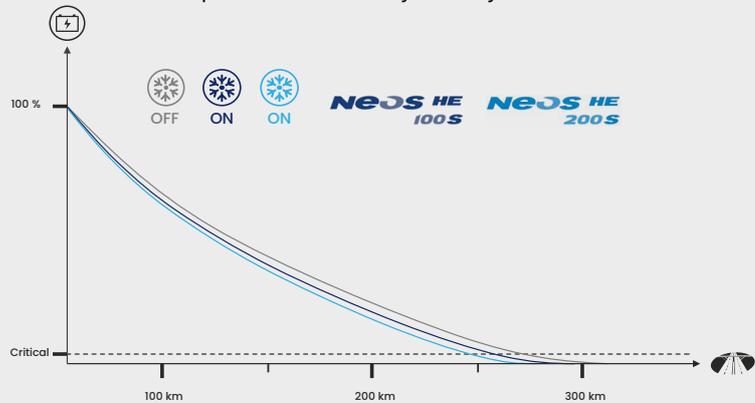
Impact on autonomy

(Battery Electrical Vehicles)

— NEOS HE 100 S — NEOS HE 200 S

The Neos HE range allows for a greater autonomy of the van traction battery whether you are on the road or stopped: the autonomy is nearly constant and independant from the refrigeration unit, making it truly reliable.

Example given for a 50 kWh OEM power train with up to 275 km autonomy WLTP cycle



Battery pack

Mastervolt is Carrier Transicold's approved battery pack solution and offers high performances for such a compact solution. Existing in 2.75 kWh or 5.5 kWh, this package includes the 100A charger which communicates with the battery for a quick recharge and ensure a maximum safety on your operations. The system is easily monitored with its own cab command.

The battery pack is a perfect solution for vehicles with no possibility to connect a 12V refrigeration unit as well as for customers looking for a fully autonomous electrical reefer solution.



Model specifications

| | NEOS 100 Integrated | NEOS 100 S MNS 600 | NEOS HE 100 S MNS 600 | NEOS HE 200 S MNS 850 |
|---|------------------------|-----------------------|--------------------------|--------------------------|
| Cooling capacity road @ 0°C/30°C | 1200 W | 1130 W | 970 W | 1520 W |
| Cooling capacity road @ -20°C/30°C | n/a | n/a | 290 W | 550 W |
| Cooling capacity standby @ 0°C/30°C | 1190 W | 1190 W | 980 W | 1560 W |
| Cooling capacity standby @ -20°C/30°C | n/a | n/a | 250 W | 570 W |
| Heating capacities @ +18°C/-18°C | 400 W | 350 W | 350 W | 800 W |
| Airflow | 590 m ³ /h | 747 m ³ /h | 747 m ³ /h | 1125 m ³ /h |
| Consumption on 12V @ 0°C/30°C | 83 A | 86 A | 66 A | 86 A |
| Consumption on 12V @ -20°C/30°C | n/a | n/a | 54 A | 66 A |
| Dimensions host unit in mm (h x w x d) | 58 x 1000 x 800 | 232 x 864 x 480 | 232 x 864 x 480 | 232 x 864 x 480 |
| Dimensions evaporator in mm (h x w x d) | 233 x 904 x 822 | 165 x 608 x 548 | 166 x 608 x 548 | 193 x 860 X 614 |
| Total weight | 53 kg | 71 kg | 73 kg | 75 kg |
| Refrigerant qty | 0,9 kg | 1 kg | 1 kg | 1,5 kg |
| Refrigerant type | R134A | R134A | R134A | R452A |



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DELIVERING CONFIDENCE

AT CARRIER TRANSICOLD, CONFIDENCE IS WHAT DRIVES US FORWARD. WE PROVIDE HEALTHY, SAFE, SUSTAINABLE AND INTELLIGENT COLD CHAIN SOLUTIONS, OFFERING CUSTOMERS ADVANCED CONNECTIVITY AND VISIBILITY.



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