

NEOS

Confidence in last mile electric solutions



Carrier
TRANSICOLD

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

*Available in 2022

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

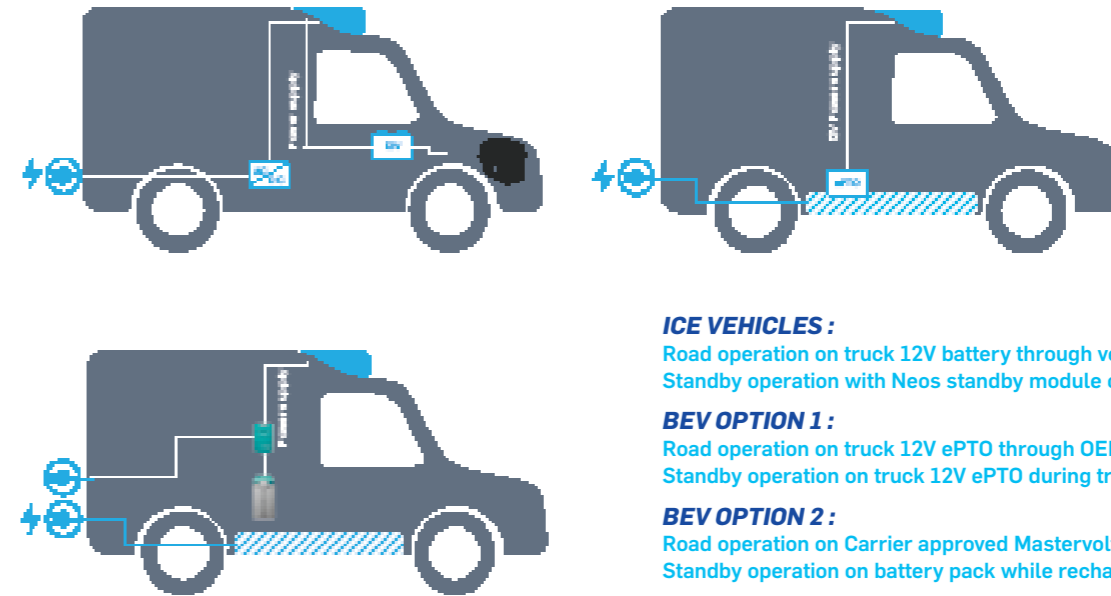
*** Compared to conventional LCV technologies

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



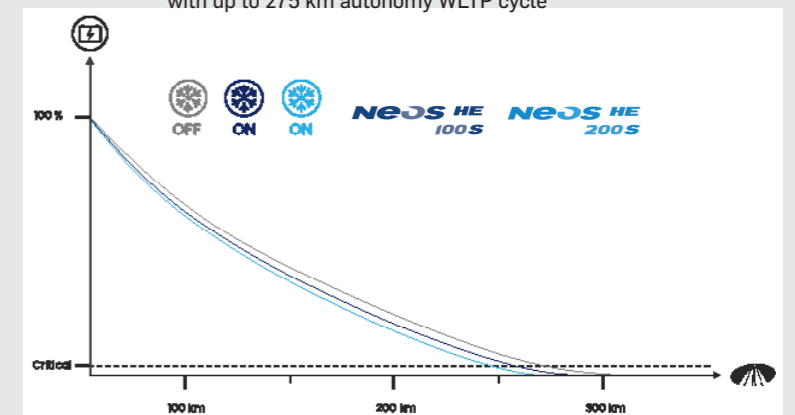
**Compared to legacy Neos 100S

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 independent 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.



Mastervolt is a brand of Mastervolt International B.V. Snijdersbergweg 93 NL-1105 AN Amsterdam - NL

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 m3/h	747 m3/h	747 m3/h	1125 m3/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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