

SUPRAGAZ PREPARATION

IVECO Eurocargo NP - Stralis/S-Way NP



DESCRIPTION

Preparation for the installation of the refrigeration unit Carrier Supra® CNG (Compressed Natural Gas).

The **Supragaz** system – perfected by System Truck in cooperation with IVECO France – guarantees the best compromise between the autonomy of the vehicle and that of the refrigeration unit. The objective is to meet the needs of transport industry's cold chain distribution sector through the reduction of pollution and noise with respect to diesel units (thus facilitating operations even in urban areas and at night times)

In this new solution, all CNG tanks are shared between the *Supragaz* system and the power system of the vehicle engine, optimising energy consumption and autonomy of both. Hence, the filling point is just one for the two systems. The refrigeration unit can work even during stops, when the vehicle engine is turned off*.

* In the condition of stop (engine turned off), some CNG tanks are kept in operation to secure fuelling of the *Supragaz* system. In general:

- one 240 l tank pack on the Eurocargo (equal to 40 kg at 200 bar);
- the tank pack on the right side on the Stralis/S-Way (320/526 l, equal to 54/88 kg at 200 bar);

but the solution could vary according to the specific configuration of the vehicle.

TECHNICAL NOTES

The preparation is available for the **Eurocargo Natural Power (CNG)** (only models ML 150E/160E/120EL) and **Stralis/S-Way Natural Power†** (190/260) ranges and is compatible with all possible orderable CNG tank configurations.

The preparation is certified R110; a second stage European homologation is available for the converted vehicle, which comes with a certificate of conformity (CoC) issued from IVECO France, allowing registration in all European countries.

All the components of the preparation are installed behind the front right mudguard, leaving the distance for the body limit unchanged. The *Supragaz* valves group consists of:

- high/low pressure regulator, inclusive of separation electrovalve, high pressure filter and high pressure indicator;
- overpressure safety valve;
- low pressure and temperature gauge;
- low pressure flexible hose, for connection to the refrigeration unit (~9,3 bar)‡

Specifications of the refrigeration unit compatible with the *Supragaz* system§:

Model	Carrier Supra® 1250 MT
Evaporator	MTS 1450
Power at 0°C (with an outside temperature of 30°C)	9500 W
Power at -20°C (with an outside temperature of 30°C)	5700 W
CNG consumption (continuous operation, full charge)	~3 kg/h

For any further information and to ask for custom designed solutions to meet your specific needs, please don't hesitate to contact our Technical Sales Department: T +39 (0)376 1590804 commerciale@st-truck.com

† **CNG or CNG/LNG** (Compressed Natural Gas/Liquefied Natural Gas) bi-fuel.

‡ The connection of the refrigeration unit to the CNG system is made by the vehicle bodybuilder, but this does not require any intervention on high pressure pipes.

§ Values provided for indication only. For technical specifications, variations and evolutions of the refrigeration unit, please contact Carrier.