Carrier Supra 9 HE Cooling Machine Specifications

The refrigeration machine proposed is the new **Carrier Supra 9 HE model.**

The technical specifications of this model :

* Powered by a three-cylinder diesel engine, **719 cm$^{(3)}$**
* Four-cylinder compressor **05K2, 400 cm³**
* Powered by a **three-phase electric motor** with a power of **5,5 kW**
* Constant air flow (at high and low speeds) **2445 m³/h**
* Automatic and manual defrosting
* Eco-friendly Freon **R-452a (3.2 kg)**
* Microprocessor to control the operation of the machine
* Electronic Cab Control to operate the machine from the driver's cab
* Cooling capacity **with outdoor 30 ºC** :

0 ºC	9.020 W
-20 ºC	5.390 W

The **Supra 9 HE** is the new generation of Supra. Compared to the 850, it is more efficient and much more economical. Studies conducted by Carrier show that the price difference is amortized in the first year. In more detail:

- It has a new design, better aerodynamic coefficient, also allowing larger cabins to open
- Significant savings in both fuel and electricity
- Lower weight (**460 kg**)
- Semi electric
- Fewer moving parts
- New condenser MCHE
- A belt with a longer useful life (4000 hours)
- Less freon as well as fewer parts that can leak in the freon.
- The service interval has now gone to 2,000 hours compared to the 1,500 hours before
- Built-in Carrier telematics box (Lynx).

We note that:

- The above temperatures are given by the manufacturer with an outdoor temperature of 30°C.
- For the distribution case, PVC curtains are necessary to limit the cooling losses from the opening of the vehicle doors.
- In the case of dense distribution (i.e. more than 10 door openings or even less in an extremely short time), it goes without saying that the desired cooling temperatures cannot be achieved during distribution.
- Especially for the transport of frozen products, before loading it is necessary to pre-cool the loading area, either by motor or electric motor (it is desirable that the refrigeration machine has an electric motor).