

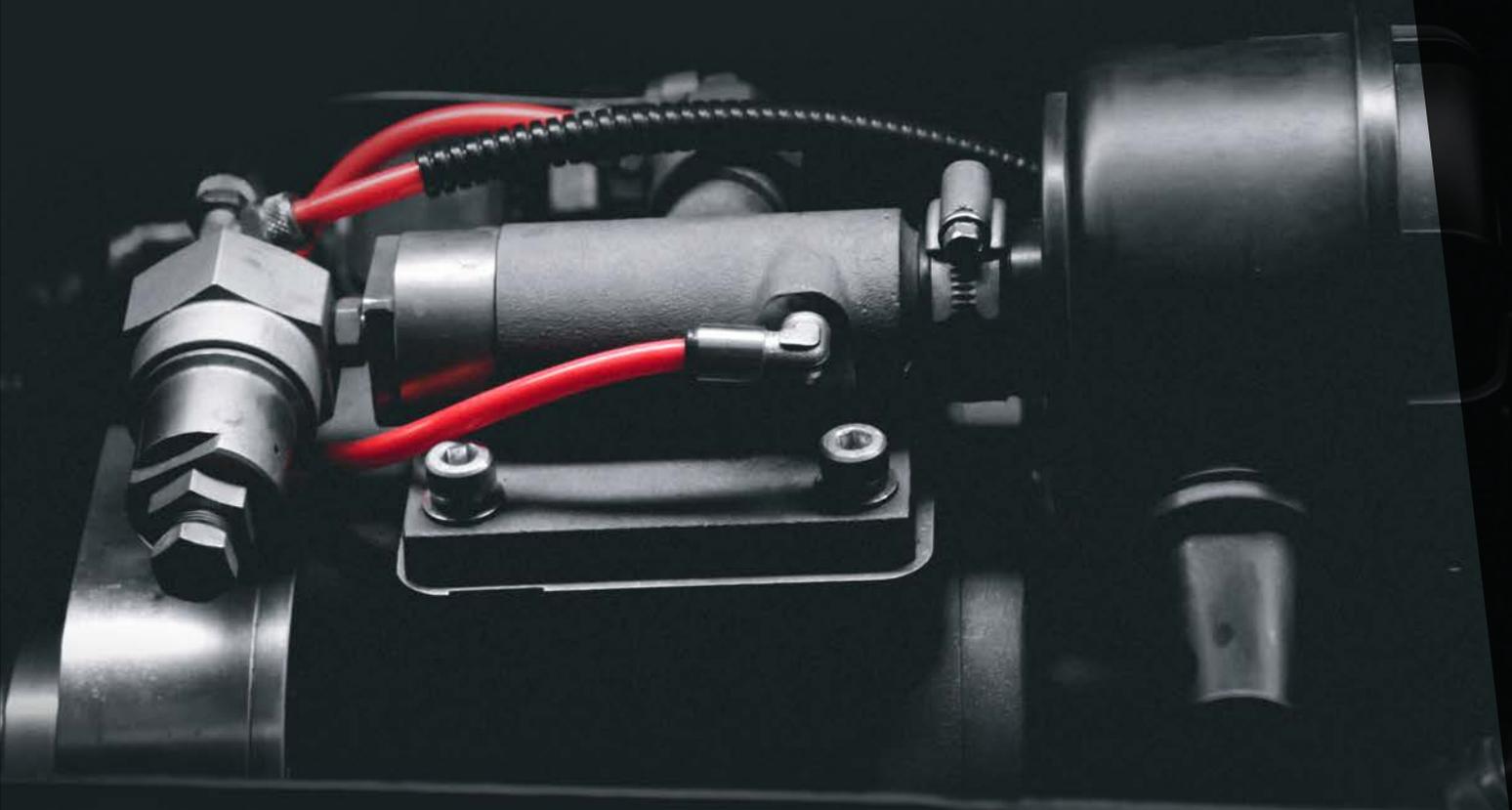


Discover our on-board power systems

The Power Motor System

by Guernet

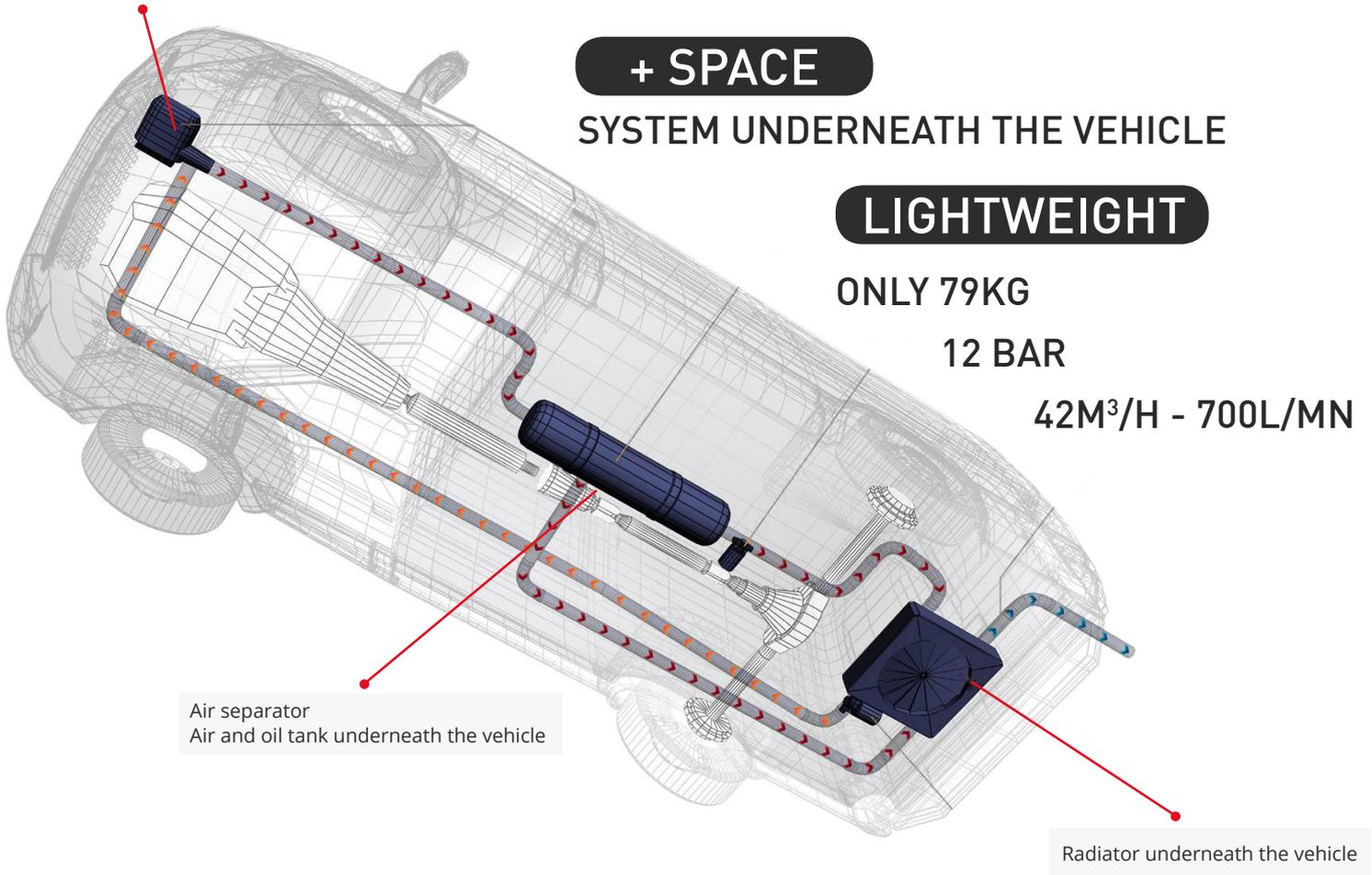
INNOVATION





Power Motor SYSTEM

Compressor fixed on the motor



+ SPACE

SYSTEM UNDERNEATH THE VEHICLE

LIGHTWEIGHT

ONLY 79KG

12 BAR

42M³/H - 700L/MN

Air separator
Air and oil tank underneath the vehicle

Radiator underneath the vehicle

The system

This system is composed of a **compressor** directly **driven by the motor** by an accessory pulley (provided as an option by the vehicle manufacturer). This compressor is connected **directly** to a storage tank situated underneath the vehicle, where the stored air can be delivered to the desired place by an air hose. The pressure can be regulated up to **12 BAR** with an air delivery of **42 m³/h - 700l/mn**. All this system, being entirely **hidden underneath the vehicle**, offers the clients access to **pneumatic energy** constantly without having to crowd their workspace.

The **Power Motor System** only weighs **79 kg**, meaning our clients will henceforth have the ability of loading **more equipment** with these **on board compressor systems** than other compressors already present on the market. In summary, our **Power Motor System** is functional, mobile, safe and ergonomically designed at the service of all those for whom the use of compressed air is essential for their business. The addition of a **1000** or optional **1500 Watts** converter allows the system to deliver **220 Volts**, single phase.

This system is only compatible with a new Renault Master 110 and 125 DCI.

HYDRAULIC VERSION COMING SOON



In 2015, the Power Motor System was awarded Silver trophy at the International grand prize of innovative automobile !



Run a compressor from your engine



Control panel



The engine continues running without key



System components fixed under the vehicle

+ In accordance with the EURO 5B+ emission control standards For vehicle with EURO 6 standards, please contact us.

How it works

To start the system, the operator must **start the car's engine normally**, put it in **neutral** and put on the **handbrake**. Thus the operator can start the compressor via **the control panel** located where he is working, **at the rear of the vehicle**. Following the start-up request, the vehicle starts automatically with a programmed **start track** (a programme created by the manufacturers of the car), a magnetic **pulley** is also automatically switched **to drive the compressor**. It is this pulley which is driven by the accessory pulley and a secondary auxiliary belt. For **the peace of mind** of the operator and **to reduce** the risk of thefts, we equip the vehicle with a **key-out system**. It works simply, once the motor has been started, the operator presses a button on the dashboard which keeps the engine running even **when he removes the key** from the ignition. The operator can also **lock** the doors of the vehicle and **work** with peace of mind.

Fuel consumption - 6.5 liters/hour

Security point of view

The one condition needed to allow the system to be started is that the handbrake **is switched on**. If the handbrake is not switched on, then **nothing** will happen, which is the same if the handbrake **is switched off** when the system is running, after of which it will **automatically stop**. Furthermore, the system is equipped with **temperature** and **pressure sensors** which automatically make it as default when the present settings are reached.

Environmental point of view

The **innovating** part of this system is that it allows us to use **the motor** of the vehicles **to supply the compressor**. We have taken away the combustion engine in the back cabin as well as the transport and handling of jerricans. Furthermore, our system is equipped with an adjustable time-lag switch (1 to 10 minutes) allowing to automatically cut the vehicle fast track when the operator does not use compressed air any more and when the air tank is full. By doing this, **we limit the fuel consumption and gas emissions**.





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