

NEGATIVE PRESSURE VENTILATION FOR COVERED CAR PARKS

CarPark Fan is an ultra-light **portable Large Flow Ventilator (LFV-P)**. It has been designed to provide an appropriate and effective solution for smoke extraction in covered car parks.

Equipped with a misting system in its standard version, **CarPark Fan** offers effective gas dilution and smoke cooling and provides additional assistance for extinguishing.

Its **reduced weight of 78 kg** for 104 000m³/h gives it an **unrivalled performance / manoeuvrability ratio** in operation. One firefighter can easily set up an **effective ventilation system**, consisting of **1 or 2 CarPark Fans**, to fight a **fire in covered car parks**.

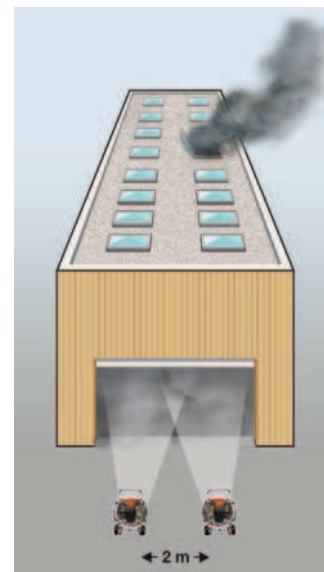
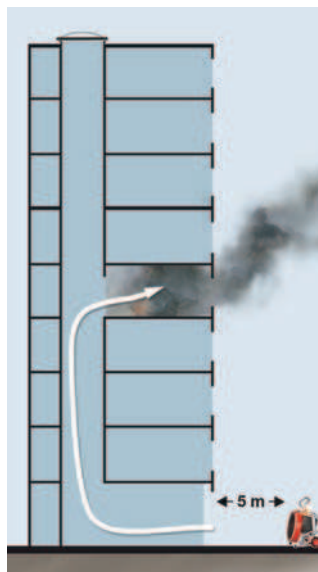


Fig 1 : 2 CarPark Fans in action

* Nominal air flow = 34 500 m³/h

POSITIVE PRESSURE VENTILATION FOR LARGE VOLUME AREAS

CarPark Fan, designed for ventilation and smoke extraction in car parks can naturally also be used in cases of **positive pressure ventilation (PPV)**. Positioned 4 to 5 metres from the entrance of the building to be ventilated (warehouse, high rise building, store, etc.), **CarPark Fan** still benefits from the air entrainment effect and has all Easy Pow'Air Technology advantages.



CARPARK FAN CHARACTERISTICS

FLOW OPEN AIR (nominal)	104 000 m³/h (34 500 m ³ /h)		POWER	17 kVA - 400V - 3ph
USABLE WITH	9 kVA = 70% of max flow		13 kVA = 80% of max flow	
TILT	0 à +20° and -10° with (optional) accessory			
SOUND LEVEL	93 dBA at 7 metres			
DIMENSIONS	L: 710 mm x D: 680 mm x H: 720 mm			Weight: 78kg
PROTECTION	IP 65**: totally protected against dust and protected against water jets in all directions			
ELECTRICAL EQUIPMENT	Power Cable of 5 m*	Recommended extension cable: 4x6 mm ²	Beacon: Xenon bulb visible at 180°	Remote control: continuous 8 h autonomy range 30 m

* electrical plug not included - Requires a 32 A plug

** Ingress Protection according to european standards

Portable CarPark Fans



Wireless remote control range 30 m

12.8kW variable speed drive motor
400V – 3ph – 50/60Hz
0-3200 rpm

Solid double walled casing

Flexible antenna for radio control

Automatic optimal tilt

Easy attachment of high expansion foam adaptor

Lever for fine tilt adjustment

Puncture-proof, large-diameter wheels

Safety cradle around the assembly eases attachment of air ducts

Stabilising feet sized to minimize vibrations and ensure the fan stability

Easy Pow'Air Technology

LEADER Fans - Advantages that make the difference:

PERFORMANCE

An unrivalled performance / manoeuvrability ratio = **104 000 m³/h for 78 kg.**

The absence of a combustion engine enables use in very smoky environments.

MANŒUVRABILITY

An effective solution for ventilation of covered car parks which can be set up by a single operator.

SAFETY

The wireless remote control enables the user to control the ventilation without standing in the stream of smoke.

A flashing beacon allows the position of the fan to be seen when functioning.

Water spraying provided for engine cooling

2-year guarantee

CARPARK FANS CONFIGURATIONS

PORTABLE CONFIGURATION

CarPark Fan requires 20 kVA to operate at maximum capacity.

In order to offer a portable solution for rapid interventions, LEADER has selected and tested a **13 kVA compact generator** weighing **only 160 kg** and enabling two CarPark Fans to operate at 65 % of their max flow or one CarPark Fan at 80 %.

Main characteristics of this 13 kVA generator (Réf. E151.016) are:

- **compactness:** only 82 x 44 x 58 cm.
- **safety:** IP54 protected against splash water from all direction
- **reliability:** brushless technology for **20 000 hours** of service.



83 200 m³/h



135 200 m³/h
2 x 67 600 m³/h

OPTIMUM CONFIGURATION FOR INTEGRATION ON VEHICLE



208 000 m³/h
2 x 104 000 m³/h

LEADER has selected and tested the **40 kVA generator** (Réf. E310.004) which will enable the 2 CarPark Fans to operate at 100 % of their performance while at the same time allowing the supply of additional devices (lighting, etc.).