

# Cut Carpark Electricity Costs



*Rototech CP-Inverter.  
The fully automatic solution for  
efficient carpark ventilation.*



Sensors are fitted within the carpark and air quality is continuously monitored. The Rototech CP-Inverter module intelligently regulates power to ventilation fans, controlling fan speed and duration to ensure maximum economy and safe Carbon Monoxide levels.

## ***Save Thousands***

Even a small decrease in fan speed can dramatically reduce energy costs.

## ***Simple Installation***

Quickly and easily integrates with existing ventilation equipment.

## ***Reduced Noise***

Fans operate more efficiently, reducing noise, especially at night.

Electric  
Motors

Speed  
Controllers

Soft  
Starters

Service  
& Support

[rototech.com.au](http://rototech.com.au)  
1300 553 552

**ROTOTECH**

Geared  
Motors

Shaft  
Encoders

Motor  
Protection

Custom  
Builds

Adelaide (Accounts), 34-36 Kinkaid Avenue  
NORTH PLYMPTON, South Australia 5037  
T: 08 8295 5566, Fax: 08 8295 5533

Melbourne, 23 James Street  
CLAYTON SOUTH, Victoria 3169  
T: 03 9544 2324, Fax: 03 9543 4328

# Features

## Quality Components

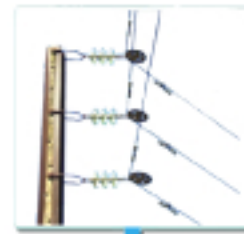
Engineered to withstand dust and water ingress to IP66 Standard, the system is robust, weather proof and very low maintenance.

## AS 1668.2-1991 Safety Compliant

The system is fully compliant with all relevant Australian Standards, and includes an Essential Services Override (ESO) input to integrate with your existing equipment.

## Full Service and Support

Rototech can provide a full Turn-Key engineered solution or can supply equipment, services and support as required.



Power is sourced from the mains to power electric motor driven exhaust fans, if motors are operated constantly **100% of power** will be consumed.



Carbon Monoxide sensors fitted strategically within car park.



Levels of CO are continuously monitored, **CO gas is measured as vehicles pass**, the data is sent to the Rototech CP Inverter.



This Rototech CP-Inverter unit interprets the signal, **reduces the fan motor speed** when CO gas drops below prescribed levels or increases fan speed to clear carbon monoxide.



A reduction in fan / motor speed will **dramatically reduce energy consumption**, depending on car park traffic. By example, only a modest speed reduction of 20% can save up to 43% energy.

# Electricity Savings

Calculations based on the Principle of Fans (Power  $\propto$  Speed<sup>3</sup>)  
For more information visit:  
[climatechange.gov.au/what-you-need-to-know/appliances-and-equipment/electric-motors/system-optimisation/optimising-pump-and-fan-applications.aspx](http://climatechange.gov.au/what-you-need-to-know/appliances-and-equipment/electric-motors/system-optimisation/optimising-pump-and-fan-applications.aspx)

20% SPEED REDUCTION	30% SPEED REDUCTION	50% SPEED REDUCTION
=46% ENERGY SAVING	=63% ENERGY SAVING	=86% ENERGY SAVING

MOTOR SIZE	ANNUAL CASH SAVINGS FOR EACH MOTOR IN YOUR CARPARK		
1.1 kW	\$946	\$1307	\$1771
2.2 kW	\$1904	\$2624	\$3553
4.0 kW	\$3441	\$4751	\$6441
7.5 kW	\$6511	\$8967	\$12,136
11 kW	\$9539	\$13,141	\$17,789

The figures are approximate only & based on \$0.1976/kWhr, 24 Hrs a day, 365 days per year, 100% loading and typical motor characteristics. The actual energy savings will vary depending on the operational requirements of each application.