

DC Powered Air-Conditioning for Vehicles

By removing the air-conditioning load from the engine, and hybridizing its operation, utility is expanded, efficiency is improved and emissions are reduced. The climate control system functions independent of the engine and utilizes battery power to provide reliable cooling. Importantly, eCycle's compressor drive is not a complete system, but a key ingredient for compliance with anti-idling laws and emission standards.

Originally developed for aerospace and marine applications, eCycle's state-of-the-art brushless compressor drive is available now for vehicles. eCycle's compressor drive delivers cooling capacity to 40,000BTU at low voltages. This solution offers high levels of performance and durability, even under extreme conditions.

eCycle is the only source of low voltage, high capacity compressor drives.

As an industry leading manufacturer of low voltage, high efficiency brushless motor/generators, eCycle is up to any challenge. Whether you are an OEM, installation shop or distributor, we have the expertise to deliver the best solution at a competitive price.

Features and Benefits

- ◆ Improves fuel economy
- ◆ Reduces emissions
- ◆ Operates independent of engine
- ◆ Upgrade low performing standard A/C systems
- ◆ Practical bolt-on solution
- ◆ 12-24VDC up to 40,000BTU
- ◆ Low Voltage (99.9% of vehicles)
- ◆ Can be integrated with standard A/C components such as condensers, heat exchangers, refrigerant lines, fan and controls



eCycle's Brushless Motor/Generator close-coupled to a Sanden Scroll Compressor



DC Powered Air-Conditioning Product Matrix

12VDC	MOTOR	SPEED (rpm)	COOLING (BTU/hr)	CURRENT (A)
	CMG-1-13	1,000	7,000	87
	CMG-1-09	1,300	9,000	100
	CMG-1-06	2,000	14,000	145
	SolidSlot™ Single	4,000	30,000	388
24VDC	MOTOR	SPEED (rpm)	COOLING (BTU/hr)	CURRENT (A)
	CMG-1-24	1,000	7,000	43
	CMG-1-18	1,300	9,000	50
	CMG-1-13	2,000	14,000	70
	CMG-1-09	2,600	17,000	88
	SolidSlot™ Double	4,000	30,000	190



Trucking



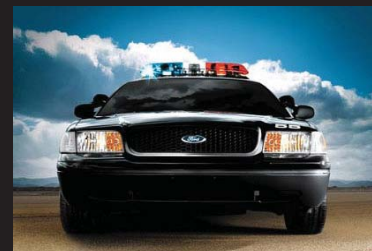
Construction



Utility



Emergency



Police



Military

To learn more and to receive a quote contact your nearest dealer.