Consumer concerns and electric vehicles

Consumer demand for electric vehicles is steadily increasing and it's clear that the age of the electric vehicle is upon us, but many consumers remain skeptical.

Short driving range

300

According to a report by LMC Automotive, electric vehicles need to travel 300 miles on a single charge for most recipients to consider a purchase. Although median range has increased from 73 to 114 miles, there's still a long way to go.

73-114

To increase it further, regenerative braking can be used to recover energy lost from braking, storing it in the battery to increase the remaining range of the vehicle and improve battery health.

Resistance heating

Resistance heating draws electricity from the battery to heat the cabin, quickly draining it of power.

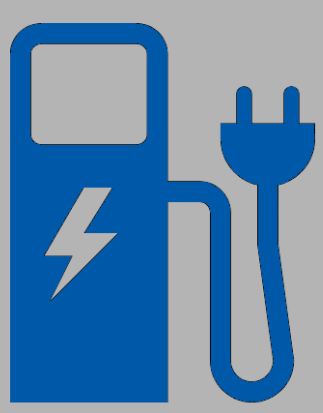
Cressall's EV2 resistor discharges excess energy captured by regenerative braking. Because the system is water-cooled, discharged energy is captured in the coolant which can be recirculated to heat the cabin.

118,668

Charging points

A lack of charging points remains a concern, although there are now 118,668 standard rate points in Europe - nearly as many as there are gas stations.

Reducing battery drain through resistance heating and topping capacity up through regenerative braking are both ways to maximise the miles covered between charges.



For more information about Cressall's range of resistors and how they can be used in electric vehicles, visit www.cressall.com or call +44 (0) 116273 3633.

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