



R2DE Electronic Air Cleaner

For Light Rail Vehicles (LRV), Automated People Movers (APM)
and Heavy Rail Transit / 18-72 volt DC electrical systems

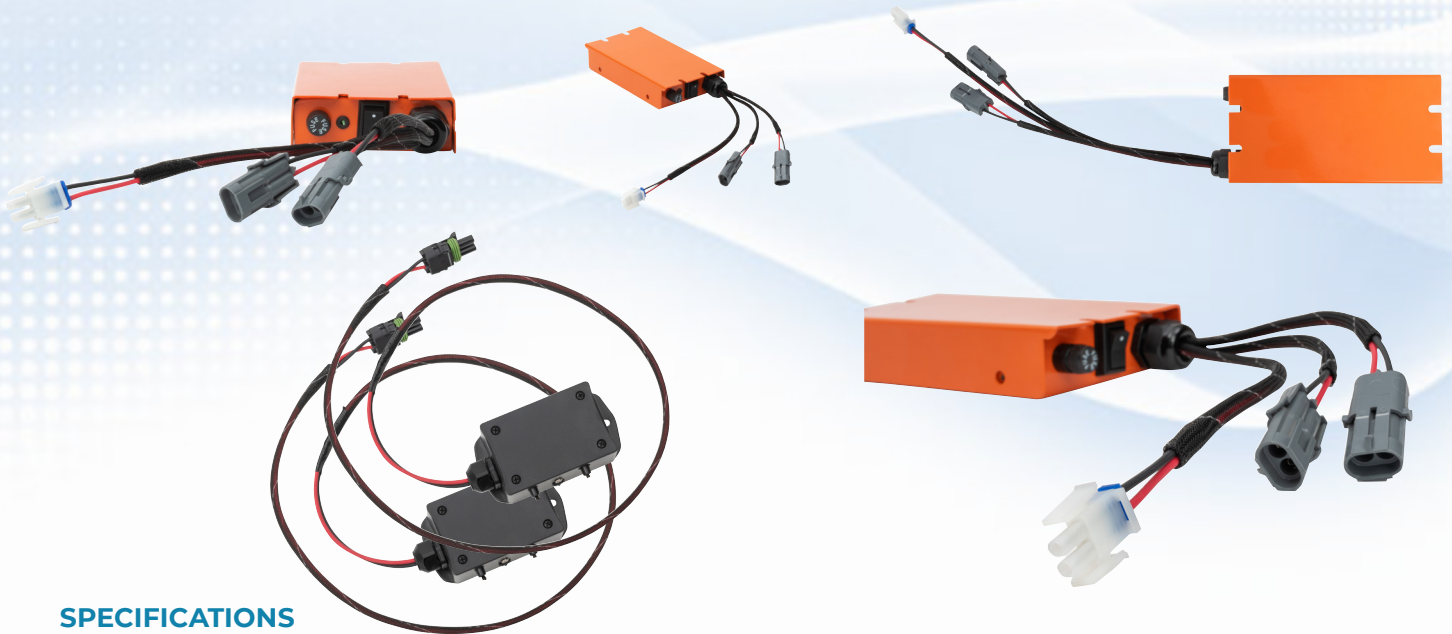
APPLICATION AND DESCRIPTION

The CCT R2DE is used as an air treatment strategy to improve indoor air quality (IAQ) for rail & bus mass transportation vehicles. The product offers flexibility for installation and balancing in specific vehicles by providing extendable emitters from the power management box. It is to be used in addition to standard filtration media, and mounted as directed by Climate Comfort Technologies. Operation is designed to utilize the HVAC evaporator blower airflow to distribute elevated concentrations of positive and negative ions. It is used to suppress dust, control certain odors, and help control various microbiological organisms throughout the air space. The technology improves IAQ, filter performance and related HVAC performance.

P/N 501.912DER

BENEFITS

- Significantly improves internal air quality
- Reduces airborne contaminants
- Oxidizes Volatile Organic Compounds and eliminates odors through gas disassociation
- Reduces airborne Particulate Matter (PM_x) through agglomeration
- Helps to neutralize various bacteria, molds & viruses
- Enhances effectiveness of filtration media and helps to control bacterial growth on evaporator coils
- Extendable emitters from the power management box provide flexibility for installation and balancing in specific vehicles



SPECIFICATIONS

- Input Electrical Voltage: 18-72 VDC
- Amp Draw: 1.25 amps
- Recommended Airflow Capacity: Up to 4200 CFM
- Operating temperature: -40C to 70C
- Weight: 3 lbs
- Safety precautions: Short Circuit Protection, Overvoltage Protection, Built-in Constant Current Limiting Circuit, Fuse, Input Reverse Polarity
- Technology Method: Dual Polarity ion air enrichment
- Maintenance: Inspect emitters quarterly or during filter change, lightly brush off accumulated particles if visible. Every 4 years, exchange emitter core (box & cable trade out for new core, emitter & testing)
- Output: Manage and supply average interior duct airflow above 5,000 ions/cc (Each polarity). OE models offer 2 emitters.
- Materials: Shock resistant powder coated aluminum enclosure & interior electronics, ABS Plastic emitter boxes.

COMPLIANCE AND CERTIFICATIONS

- Conforms to UL STD UL-867
- Certified to CSA STD C22-2 #187
- Conforms to UL-2998 (3rd edition, July 10, 2020) Clause 6.2

Approved for (EMC/EMI testing includes Radiated Emissions. Conducted Emissions. Conducted Immunity, Electrostatic Discharge Immunity, Radiated Immunity, Electric Fast Transient, Surge Immunity. Other tests include Shock, vibration, environmental and Db tests)

- IEC 61000 (EMC/EMI)
- EN 50121-3-2 (EMC/EMI)
- IEC 61373:2010 (Shock and Vibration Tests)
- IEC 60068-2-30 (Db test)

