#### Series CRE and CRR E-Mitters



# Type CRE & CRR Edison Screw-In Bulb E-Mitters



#### **Design Features**

- \* Provides safe, clean, radiant heat anywhere
- \* Easy installation
- \* Not affected by vibration high mechanical strength
- \* Good resistance to atmospheric contamination
- \* Does not generate visible light— only heat
- \* Reversible color change feature
- \* 3.5 to 7µm infrared radiation peak wavelength

### **Typical Applications**

- → Plastic Thermoforming and vacuum forming
- · Curing adhesives
- Curing dental composite material
- → Heating laboratory samples and specimens
- Comfort heat for agricultural, zoological and reptilian pet applications
- Preventing moisture accumulation and freezing in electrical control boxes
- → Preventing moisture accumulation, mildew and freezing in clothes lockers
- Resistor Banks
- → Agricultural
- → Agency Approval:





Screw-In Base Ceramic receptacle for use with screw-in bulb E-Mitters

Part Number: CRK00016

# Type CRE & CRR E-Mitters

#### **Edison Screw-In Bulb E-Mitters**

The CRE and CRR Style E-Mitters are hollow ceramic heaters with a unique thin wall construction and geometrical shape to facilitate fast heating and cooling rates.

The resistance coil is embedded into the specially designed circular ceramic E-mitter surface, providing extremely uniform heat transmission with low element surface temperatures.

Because of the convenient Edison Screw-In style termination, CRE & CRR E-Mitters are recognized as a tremendously versatile source for localized spot heating. They can be used virtually anywhere quickly and easily by simply installing the CRE E-Mitter into common porcelain/ceramic insulated bulb sockets—like any ordinary light bulb.

E-Mitters
being
loaded
into
firing
furnace.

**CRR** 

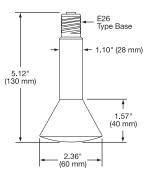


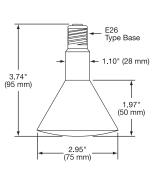


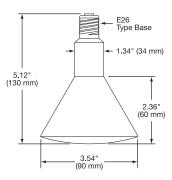
## **Series CRE and CRR E-Mitters**

# Type CRE Edison Screw-In Bulb E-Mitters









CRE 60 mm

CRE 75 mm

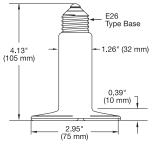
CRE 90 mm

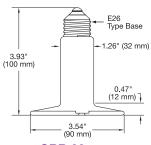
#### **Stock CRE E-Mitters**

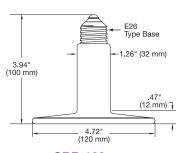
Diameter	Wattage	Voltage	Color	Watt (W/in²)	Density (W/cm²)	*Surface Te (Typi °F		Part Number
	60	120	Rose to Grey	13.26	6.45	842	450	CRE10014
60mm	60	120	White	13.26	6.45	842	450	CRE00014
OUIIIII	100	120	Rose to Grey	22.60	10.76	887	477	CRE10015
	100	120	White	22.60	10.76	887	477	CRE00015
	60	120	Rose to Grey	8.49	1.32	662	350	CRE10012
75mm	60	120	White	8.49	1.32	662	350	CRE00012
7311111	100	120	Rose to Grey	14.15	2.19	788	420	CRE10013
	100	120	White	14.15	2.19	788	420	CRE00013
	150	120	Rose to Grey	15.59	2.41	842	450	CRE10008
90mm	150	120	White	15.59	2.41	842	450	CRE00008
<b>7011111</b>	250	120	Rose to Grey	22.98	4.02	986	530	CRE10002
	250	120	White	22.98	4.02	986	530	CRE00002

# Type CRR Edison Screw-In Bulb E-Mitters









CRR 75 mm

CRR 90 mm

**CRR 120 mm** 

#### Standard (Non-Stock) CRR E-Mitters (Color - White)

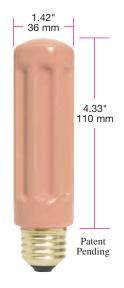
Diameter	Wattage	Watt I	Density (W/cm²)	*Surface To (Typ °F	emperature ical) °C	Part Number 120V
75mm	60	8.77	1.36	640	338	CRR00005
7511111	100	14.62	2.26	710	377	CRR00006
	100	10.16	1.57	655	346	CRR00003
90mm	150	15.24	2.36	760	404	CRR00004
	200	20.32	3.14	950	510	CRR00007
	100	5.71	0.88	400	204	CRR00008
120mm	150	8.57	1.33	485	252	CRR00009
	200	14.29	2.21	670	354	CRR00010

<sup>\*</sup>E-Mitter (operating in 72°F/22°C ambient) face temperature measured with internal thermocouple.

#### **Series CRT E-Mitters**



#### Stock CRT E-Mitters



#### Series CRT - Tube Shaped E-Mitter

Tempco's Edison Screw-In Bulb Series CRT E-Mitter is a hollow, tube-shaped ceramic heater ideally suited for wide area heating. Standard colors are metamorphing rose and straight white; optional are metamorphing yellow and straight black.

## **Typical Applications**

- Preventing moisture accumulation and freezing in electrical control boxes
- Preventing moisture accumulation, mildew and freezing in clothes lockers
- → Resistor Banks
- **→** Incubators

# Standard (Non-Stock) and Stock CRT E-Mitters (Color — METAMORPHING Rose to Grey) Stock Items Are Shown In RED

Wattage	*Surface Temperature (Typical)		Part Number		
70		°C	120V	240V	
50	464	240	CRT10100	_	
75	567	297	CRT10101	CRT10106	
100	671	355	CRT10102	CRT10107	
150	824	440	CRT10103	CRT10108	
200	937	503	CRT10104	CRT10109	
250	1049	565	CRT10105	CRT10110	

<sup>\*</sup>E-Mitter (operating in 72°F/22°C ambient) surface temperature measured with a thermocouple.



Screw-In Base Ceramic receptacle for use with screw-in bulb E-Mitters

Part Number: CRK00016



#### **Series EHC Enclosure Heaters**

#### **EHC Ceramic E-Mitter Enclosure Heaters**



## **Typical Applications**

- → Traffic Signal Control Boxes
- → Automatic Teller Machines (ATMs)
- Outdoor Electrical Power Enclosures
- · Control Panels
- Control Valve Housings
- Switch Gear
- **→** Clothing Lockers

Tempco enclosure heaters are the answer to all your enclosure heater needs. Our heaters are designed to help electric, electronic, pneumatic, hydraulic and mechanical equipment perform at top capacity by protecting them against low temperatures, condensation and corrosion. Tempco offers many different styles of heaters that can be used in enclosure heating applications. Our most popular styles are displayed below.

#### **EHC Enclosure Heaters with NEMA 1 Housing**

Watts	Volts	Color	Part Number	Replacement Heater Bulb
50	120	Rose to Grey	EHC10100	CRT10100
75	120	Rose to Grey	EHC10101	CRT10101
75	240	Rose to Grey	EHC10106	CRT10106
100	120	Rose to Grey	EHC10102	CRT10102
100	240	Rose to Grey	EHC10107	CRT10107
150	120	Rose to Grey	EHC10103	CRT10103
150	240	Rose to Grey	EHC10108	CRT10108
200	120	Rose to Grey	EHC10104	CRT10104
200	240	Rose to Grey	EHC10109	CRT10109
250	120	Rose to Grey	EHC10105	CRT10105
250	240	Rose to Grey	EHC10110	CRT10110

See page 11-114 for help in sizing and determining the best enclosure heater for your application.

## **EHA** — Remote Thermostats for Enclosure Heaters



#### **Stock EHA Remote Thermostats**

Opens °F	Closes °F	Part Number
60±5	40±7	EHA00001
$140 \pm 5$	110±10	EHA00002
180±5	150±10	EHA00003

## Other Types of Enclosure Heaters



Finned Strip Heater See Page 8-14



Silicone Rubber Heater See Page 9-18



Tubular Heater See Page 11-115