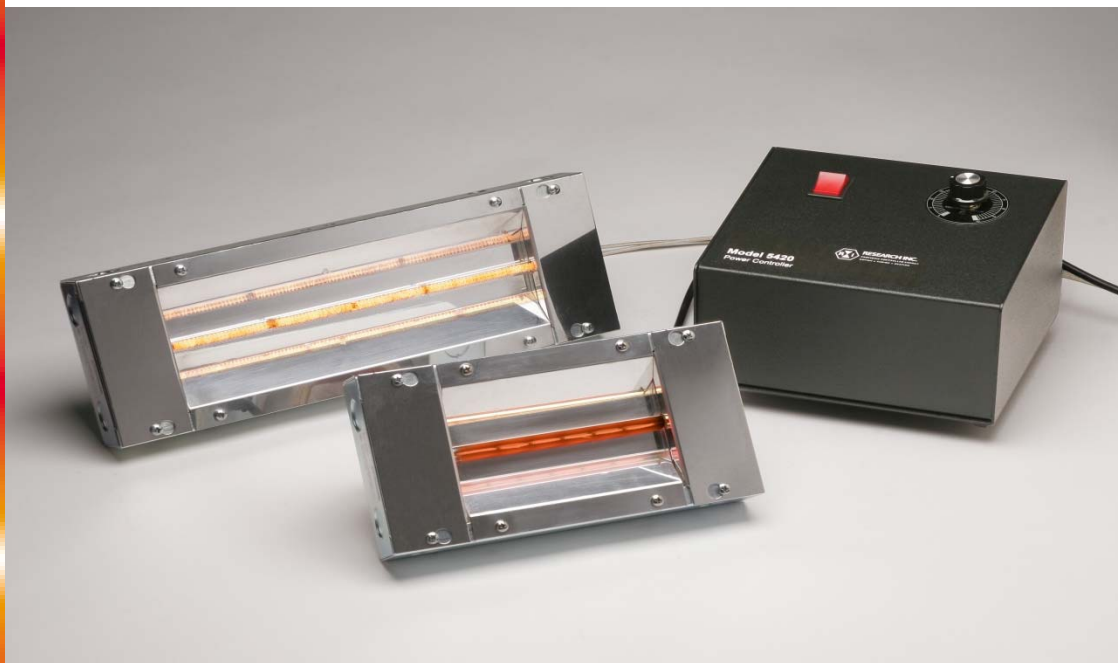




# Infrared Heaters For Controlled Concentrated Heating

## Model 5560



### FAST. FOCUSED. CONTROLLED.

#### Infrared Heat. Instantaneous Results.

This heater is designed to provide a low, uniform heat flux density (~ 5 to 10 watts / in<sup>2</sup>) up to 2 feet (0.6 m) away from the heater. The Model 5560 is available in heated lengths of 5, 10, 16, 25, and 38 inches (127, 254, 406, 635, and 965 mm). The lamp uses a ceramic end-seal, 'T3-style' quartz halogen lamp readily available from Research Inc. The Model 5560 operates using natural convection cooling and does not require an external cooling source like water or forced air.

Each Model 5560 heater module has a steel frame that mounts easily to nearly any support structure. The heater's reflector is made from lightweight, specular aluminum that can be easily removed for cleaning. Combining heaters allows the user to create a heating array of nearly any size or shape.

#### Applications

- Coupon Tests
- Curing Rubber/Silicone
- Drying and Curing Paint
- Drying and Curing Adhesive
- Preheating
- Pre-curing Rubber/Silicone
- Reglossing
- Shrink Insulation
- Spring Stress Test
- Reglossing Plastic Tubing
- Vulcanizing

## **FAST. FOCUSED. CONTROLLED.**

### **Features and Benefits StripIR 5560**

- The lamp reaches 90 percent of full operating temperature within five seconds of a cold start.
- The radiant energy dissipates to ten percent five seconds after the power supply is disconnected.
- The construction of these heaters allows them to withstand continuous high temperature operation.
- Non-contact heat source does not come in contact with product being heated.
- The infrared energy emitted from these heaters can be adjusted to match the heating requirements of a variety of applications.
- Repeatable results can be achieved for consistent process outputs.

### **Product Description-StripIR Model 5560**

The product is comprised of two major components, the heater module and the power controller.

#### **Heater Module**

##### **Plated Steel Housing**

The Heater module is constructed from a steel housing and a polished aluminum reflector. The design of the housing allows convective air to cool the end seals of the lamps so it operates without any forced air or water cooling.

##### **Polished Aluminum Reflector**

The polished aluminum reflector focuses the energy from the lamp to provide a consistent five inch wide strip of heat at a distance of up to two feet from the heater. The reflector can be easily removed for cleaning when the heater is used in an application where smoke or contaminants can coat the reflector and reduce the heater efficiency.

##### **Lamps**

The heater comes with a 100 watt per inch short wavelength lamp installed.

##### **Power Cord**

A 10 foot power cord is attached to the heater for connection to the power controller.

### Product Description-StripIR 5560 continued

#### Power Controllers

The Model 5560 Heater comes equipped with a power controller to precisely regulate the voltage being applied to the heater. The output of the heating element is very repeatable and is dependent on the voltage supplied to it. The power controllers are designed as part of this system to optimize the heater performance. The controllers can be ordered with one of several command signals options to allow you to choose how the heat output is controlled. The controller options for the 5560 StripIR are:

#### Model 5420 Power Controller

The Model 5420 Power Controller has an off / on switch and a manual one turn potentiometer that will vary the output voltage form 0% to 97% of the line voltage. The controller comes complete with a power cord and plug. Terminal block connections are provided to install the wiring from the heater.

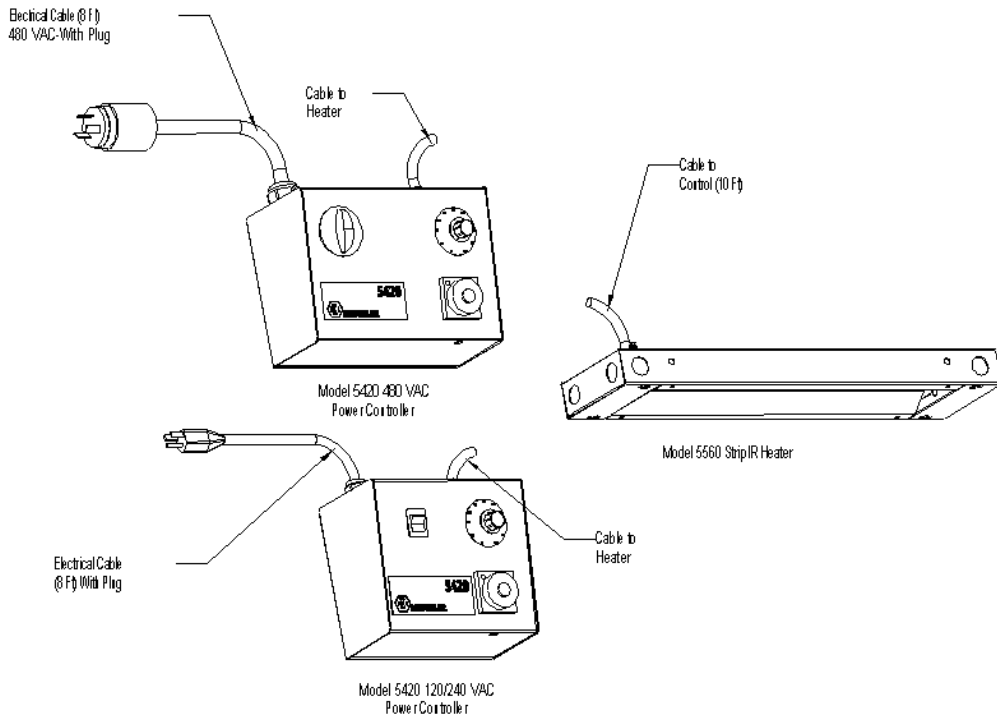
#### Model 5420E Power Controller

The Model 5420E Power Controller has an off / on switch, a manual one turn potentiometer that will vary the output voltage form 0% to 97% of the line voltage and a timer. The time has a 50 increment dial and may be set to adjust the voltage on time between; 0 to 5.0 seconds, 0 to 50 seconds, 0 to 5.0 minutes, 0 to 50 minutes, 0 to 5.0 hours and 0 to 50 hours. The controller comes complete with a power cord and plug. Terminal block connections are provided to install the wiring from the heater.

#### Model 5420mA Power Controller

The Model 5420mA Power Controller has an off / on switch and a receptacl / plug to accept a 4 to 20 mA control signal from an external source to regulate the output voltage. The controller comes complete with a power cord and plug. Terminal block connections are provided to install the wiring from the heater.

### Product Drawing – StripIR Model 5560 and Controller Model 5420



## Technical Information – StripIR Model 5560

### Specifications

Model 5560	-05	-10	-16	-25	-38
LL, Lighted Length, in (mm)	5 (127)	10 (254)	16 (406)	25 (635)	38 (985)
Heated Area, in <sup>2</sup> (cm <sup>2</sup> )	25 (127)	50 (1270)	80 (2032)	125 (3175)	190 (4826)
Heater Length in (mm)	9.5 (241.3)	14.5 (306)	20.5 (521)	29.5 (749)	42.5 (1080)
Heater Width, in (mm)	5 (127)	5 (127)	5 (127)	5 (127)	5 (127)
Lamp Part Number	103390-001	103390-003	103390-005	103390-007	103390-010
Rated Voltage	120	240	240	480	480
Total Power Dissipated At Rated Voltage, kw	0.5	1.0	1.6	2.5	3.8

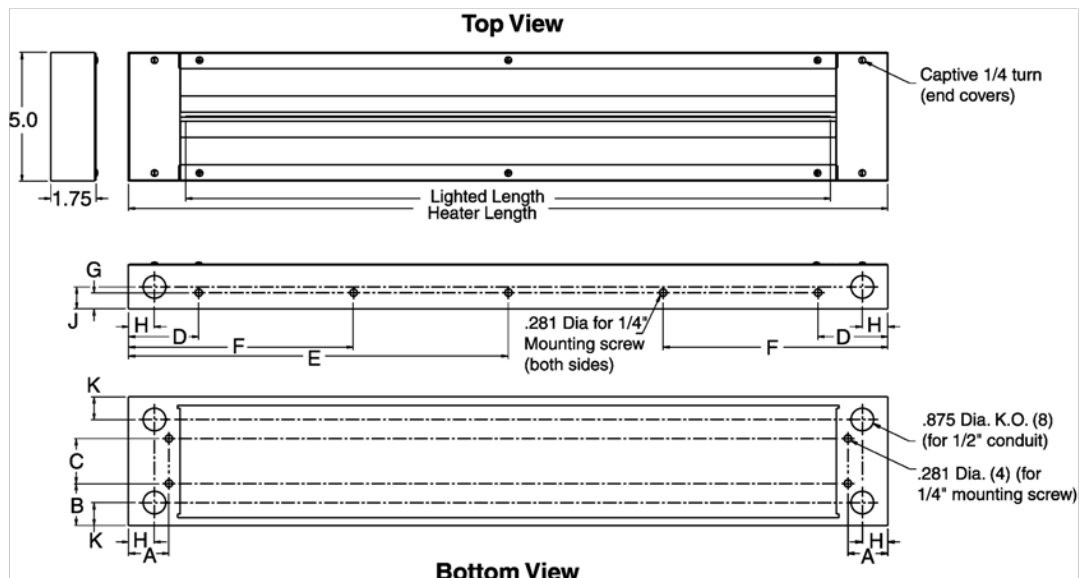
### Mounting Hole Locations

A, in (mm)	1.56 (39.6)	1.56 (39.6)	1.56 (39.6)	1.56 (39.6)	1.56 (39.6)
B, in (mm)	1.63 (41.4)	1.63 (41.4)	1.63 (41.4)	1.63 (41.4)	1.63 (41.4)
C, in (mm)	1.75 (44.5)	1.75 (44.5)	1.75 (44.5)	1.75 (44.5)	1.75 (44.5)
D, in (mm)	2.75 (69.9)	2.75 (69.9)	2.75 (69.9)	2.75 (69.9)	2.75 (69.9)
E, in (mm)	N / A	N / A	N / A	14.75	N / A
F, in (mm)	N / A	N / A	N / A	N / A	15.08 (383)
G, in (mm)	0.63 (16)	0.63 (16)	0.63 (16)	0.63 (16)	0.63 (16)

### Electrical Knock-out Locations

H, in (mm)	1.0 (25.4)	1.0 (25.4)	1.0 (25.4)	1.0 (25.4)	1.0 (25.4)
J, in (mm)	0.85 (21.6)	0.85 (21.6)	0.85 (21.6)	0.85 (21.6)	0.85 (21.6)
K, in (mm)	0.89 (22.6)	0.89 (22.6)	0.89 (22.6)	0.89 (22.6)	0.89 (22.6)

Dimensions – StripIR Model 5560





Infrared Heaters For Controlled Concentrated Heating.

**How to Order – StripIR Model 5560**

<b>MODEL NUMBER 5560</b>	
<b>Part Number</b>	<b>Product Description - 5 inch StripIR (120 volt)</b>
5560-05-500-01-00	5560-05 w ith Model 5420-120 controller (includes potentiometer)
5560-05-500-02-00	5560-05 w ith Model 5420E-120 controller (includes potentiometer and timer)
5560-05-500-03-00	5560-05 w ith Model 5420mA-120 controller (includes 4-20 mA input control)
	<b>Product Description - 10 inch StripIR heaters (240 volt)</b>
5560-10-1000-01-00	5560-10 w ith Model 5420-240 controller (includes potentiometer)
5560-10-1000-02-00	5560-10 w ith Model 5420E-240 controller (includes potentiometer and timer)
5560-10-1000-03-00	5560-10 w ith Model 5420mA-240 controller (includes 4-20 mA input control)
	<b>Product Description - 16 inch StripIR heaters (240 volt)</b>
5560-16-1600-01-00	5560-16 w ith Model 5420-240 controller (includes potentiometer)
5560-16-1600-02-00	5560-16 w ith Model 5420E-240 controller (includes potentiometer and timer)
5560-16-1600-03-00	5560-16 w ith Model 5420mA-240 controller (includes 4-20 mA input control)
	<b>Product Description - 25 inch StripIR heaters (480 volt)</b>
5560-25-2500-01-00	5560-25 w ith Model 5420-480 controller (includes potentiometer)
5560-25-2500-02-00	5560-25 w ith Model 5420E-480 controller (includes potentiometer and timer)
5560-25-2500-03-00	5560-25 w ith Model 5420mA-480 controller (includes 4-20 mA input control)
	<b>Product Description - 38 inch StripIR heaters (480 volt)</b>
5560-38-3800-01-00	5560-38 w ith Model 5420-480 controller (includes potentiometer)
5560-38-3800-02-00	5560-38 w ith Model 5420E-480 controller (includes potentiometer and timer)
5560-38-3800-03-00	5560-38 w ith Model 5420mA-480 controller (includes 4-20 mA input control)

**Accessories, Spare & Replacement Parts – StripIR Model 5560**

PART NUMBER	SPARE & REPLACEMENT PARTS
	<b>Replacement Lamps</b>
103390-001	Replacement lamps - 5 inch, 500 w att, 120 volt (sold in pairs)
103390-003	Replacement lamps - 10 inch, 1000 w att, 240 volt (sold in pairs)
103390-005	Replacement lamps - 16 inch, 1600 w att, 240 volt (sold in pairs)
103390-007	Replacement lamps - 25 inch, 2500 w att, 480 volt (sold in pairs)
103390-010	Replacement lamps - 38 inch, 3800 w att, 480 volt (sold in pairs)
	<b>Heater Modules</b>
5560-05-500	5560-05 Heater Module
5560-10-1000	5560-10 Heater Module
5560-16-1600	5560-16 Heater Module
5560-25-2500	5560-25 Heater Module
5560-38-3800	5560-38 Heater Module
	<b>120 volt power controllers</b>
5420-120	Replacement Model 5420-120 pow er controller (includes potentiometer)
5420E-120	Replacement Model 5420E-120 pow er controller (includes potentiometer and timer)
5420mA-120	Replacement Model 5420mA-120 pow er controller (includes a 4-20 mA input control)
	<b>240 volt power controllers</b>
5420-240	Replacement Model 5420-240 pow er controller (includes potentiometer)
5420E-240	Replacement Model 5420E-240 pow er controller (includes potentiometer and timer)
5420mA-240	Replacement Model 5420mA-240 pow er controller (includes a 4-20 mA input control)
	<b>480 volt power controllers</b>
5420-480	Replacement Model 5420-480 pow er controller (includes potentiometer)
5420E-480	Replacement Model 5420E-480 pow er controller (includes potentiometer and timer)
5420mA-480	Replacement Model 5420mA-480 pow er controller (includes a 4-20 mA input control)