



STEP SUNROOM™

Technical Specifications

ISO 9001
REGISTERED



Description

STEP Sunroom™ is designed to provide heated floors in sunrooms, conservatories, etc. For these applications, the floor covering is limited to concrete, tile and stone.

STEP Sunroom™ has a higher wattage output than the standard residential element, as these types of constructions have high heat losses.

A heat loss calculation is required to find out if STEP Sunroom™ can sufficiently heat the room all year round. This will depend on the type of construction and insulation values of the substrate, ceiling and windows.

STEP Sunroom™ heating elements are normally connected to a 24V step-down power supply but they can also run on solar or wind power.

STEP Sunroom™ is self-regulating and cannot overheat, thereby using less electricity.

STEP Sunroom™ is strong, thin and flexible, easy to install and can be cut to size on the job site.

System components:

- STEP Heating Element™
- STEP Connector Pack
- STEP Power Supply
- Braided Tinned Copper Wires
- STEP Crimp Tool

Optional:

- Controller
- STEP Terminal Block

ELECTRO
plastics, inc.

11147 Dorsett Road
Maryland Heights, MO 63043
1-314-426-3555 phone
1-314.426-3556 fax
www.warmfloor.com

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Components

Heating element type	Positive Temperature Coefficient (PTC) semi-conductive polymer EP-30-2-44W-24V	Width: 12" (305 mm)
	Length: cut to order	Maximum element length: 16 ft (4.9 m)
Specifics	Weight: 0.23 lb/ft (0.34 kg/m)	Thickness: 3/64" (1.2 mm)
Power Supply	Low voltage dry type isolation power supply Standard 120 Volts, other voltages available on request	
500 VA	For up to 32 ft heating element	
1000 VA	For up to 64 ft of heating element	
1500 VA	For up to 96 ft of heating element	

Electrical Power

Output wattage when powered at 24 VAC	14.0 W/ft (46 W/m) @ 68°F (20°C) 12.3 W/ft (40 W/m) @ 86°F (30°C)
Nom. resistance @ 68°F (20°C)	41 Ω/ft (13 Ω/m)
Primary draw on 120 Volts	0.12 Amps per foot (.305 mm) of heating element

Maximum extension wire lengths to power supply

Wire Gauge	From element strip (16 ft) Max. 225 W	From Terminal Block (32 ft) Max. 450 W
12 AWG (4 mm ²)	18 ft (5.4 m)	9 ft (2.7 m)
10 AWG (6 mm ²)	28 ft (8.6 m)	14 ft (4.3 m)
8 AWG (8 mm ²)	44 ft (13.4 m)	22 ft (6.7 m)
6 AWG (10 mm ²)	68 ft (10.4 m)	34 ft (10.4 m)

Ordering Information

Model No.	Element Length	Power Supply Size	Connector Kit	Terminal Block
EP-30-2-44W-24V	12" wide	24 volts	Per element strip	Optional
Maximum total element length per power supply	32 ft (9.7 m)	500 VA	2 pieces connectors and tape (C&T)	1
	64 ft (19.4 m)	1000 VA		2
	96 ft (29 m)	1500 VA		3



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