

Complete this form by entering text, numbers, check boxes as required below.
 Save document and e-mail to design@infrasave.com.
 Or Print and fax the completed form and drawings to:
 Canada Fax: 1-866-724-9265 ; USA Fax: 1-866-361-0523 [or 706-554-9390]



Patio Design Form

*** Indicates required information: Incomplete information will result in delays**

Electric IR Heaters: Must also complete Page 2 and/or Page 3 for a design

*Distributor Name: _____	*Project Name: _____
*Contact Person: _____	*Project City: _____
*Address: _____	*State/Prov: _____
*City: _____	*Contractor: _____
*State/Prov: _____	*Contact Person: _____
*Phone: _____	Phone: _____
*Fax: _____	E-mail: _____
E-mail: _____	

**Note: Patio Heating Designs allow for a wind condition of 10 mph [15 km/hr].
 Patios with wind breaks provide best comfort for patrons.**

***Type of Fuel:**
 Nat. Gas Propane Electricity

***Comfort Temperature Needs:** Check: °F or °C
 When in use, coldest outside temperature: _____ °F or °C
 Desired Comfort Temperature rise: _____ [Typical: 10° to 15°F]

***Entire Patio to be heated:**
 Yes No Indicate partial area on floor plan

***Is there a roof/canopy over patio:**
 Yes No
Include a cross section sketch and indicate high and low point dimensions
 Roof Construction
 Material:

***Is Patio adjacent to a wall:**
 Yes No
 If Yes, indicate wall[s] on the floor plan & cross section

***Can heaters be mounted on a wall:**
 Yes No
 If Yes, indicate which wall[s] on your sketch

***Is there a wind break on any side of patio:**
 Yes No Indicate location[s] on floor plan
 How much wind is blocked _____ % [Estimate]

IMPORTANT: Include all dimensions

On separate sheet[s] include a floor plan sketch and a cross section with all dimensions

- Indicate:
- Location of Tables
 - Table type: chair height tables; stool height tables
 - Windows and doors [can interfere with heater locations]
 - Any wall area where heaters can be located
 - Any restrictions to heater locations [overhangs, signs, fans, windows, etc]
 - Mark any partial area of floor plan to heat
 - Mark any specific Zones of heat required on the patio
 - Roof or canopy: Dimensions to the high and low sides; construction material
 - If the patio area has other special circumstances, indicate on sketch

Electric IR Heating: Must also read & complete Page 2 and/or Page 3 for a design

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Standard turnaround is 3 business days, if possible Infrasave will endeavor to accommodate earlier requirements.

Electric IR Heating Guidelines: Read First

Ensure the site has sufficient electrical capacity before submitting a design request

Use this table as a guideline for the **minimum** amperage capacity required at site electrical panel.

This table indicates the electrical capacity required for **Each 100 sq ft [9.3 sq m]** of Patio area:

Site Voltage	Comfort temperature rise		Minimum Amps service required per <u>each</u> 100 sq ft [9.3 sq m] of Patio area
	10°F	15°F	
120	45 Amps	65 Amps	}
208	25 Amps	40 Amps	
240	25 Amps	30 Amps	
277	20 Amps	30 Amps	
480	15 Amps	20 Amps	

If the required electrical capacity [amps] cannot be made available, do not design with Electric IR

Example: 12 ft x 24 ft patio with site voltage of 208 and customer desires a 10°F comfort temperature rise.

Square Feet: Divide patio area by 100, then multiply by the appropriate amps in the table above [Amps/100 sq ft]:

Square Meters: Divide patio area by 9.3, then multiply by the appropriate amps in the table above [Amps/9.3 sq m]:







12' x 24' = 288 sq ft requires: [288/100] x 25 Amps = 70 Amps minimum capacity at an electrical panel on site.

Information below is required for design of Electric IR heating:

Site Voltage [Check one only]: 120 208 240 277 480
 Phase: Single Phase Three Phase

Select a Control Strategy: [select one; More controls next page]

Note: Infrasave design staff will best match the selected control strategy to the heaters required by design. An alternate solution may be needed or suggested depending upon heater model[s] required.

	Check One	INF Input Regulators for use with single element heaters up to 3000 W [max. 15 amps]	Duplex Stack Switches for use with dual element heaters. Range 120V - 277V [max. 20 amps/switch]
In-Wall For Indoor or Protected Outdoor Areas	<input type="checkbox"/>		
In-Wall for Exposed Outdoor Areas	<input type="checkbox"/>		
Surface Mount for Exposed Outdoor Areas	<input type="checkbox"/>		

More control solutions next page

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More control solutions previous page

Surface Mounted Solid State Relay Panels

- Nema 4 rated: Completely weather resistant
- Maximum 8,000 watts @208V per relay
- Maximum 9,000 watts @240V per relay
- Grey powder coat finish

Check

One

Used in conjunction with
Zone Intensity Controllers
[select one style below]

1 to 6 Relays / Panel*

or

Used in conjunction with a home
management system

1 to 6 Relays / Panel*

Note: Requires 0-10V DC Signal



* Relay Panels requiring more than six relays are also available by special order

Check

One

Zone Intensity Controllers

- Nema 12 rated: Can be exposed to mist, but not direct rain
- Stainless steel cover**
- Control the intensity of heat in specific zones
- Lighted On/Off switch for each zone
- 1 to 4 Controller gang
- Each zone control can control up to 3 relays in the Relay Panel



Zone Intensity Controllers with Master Timer

- Master Digital Timer intervals: 15, 30, 60 min.; 2 and 4 hours
- 1 to 3 Controller gang + Master Digital Timer
- Same specifications as Controllers above



Check

For White

** All Zone Intensity Controllers are also
available in white finish surface plate



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