

HEATSEAT



UNDER SEAT RADIANT HEATERS

MEASURING GUIDELINES

HEATSEAT Under Pew Church Heaters are slimline, radiant panels which are screwed to the underside of pews to radiate heat to the people, where it is needed.

Standard overall width: 280mm

This list goes right up to 2400mm lengths, but of course it's a lot easier and safer for shipping etc., to supply shorter lengths. Our most common length requested is 1200mm.

Standard Measurements

Model	Length	Watts
THC0600	600mm	130
THC0800	800mm	180
THC1000	1000mm	220
THC1200	1200mm	260
THC1400	1400mm	310
THC1500	1500mm	330
THC1600	1600mm	350
THC1800	1800mm	400
THC2000	2000mm	440

When measuring the underside of the pews:

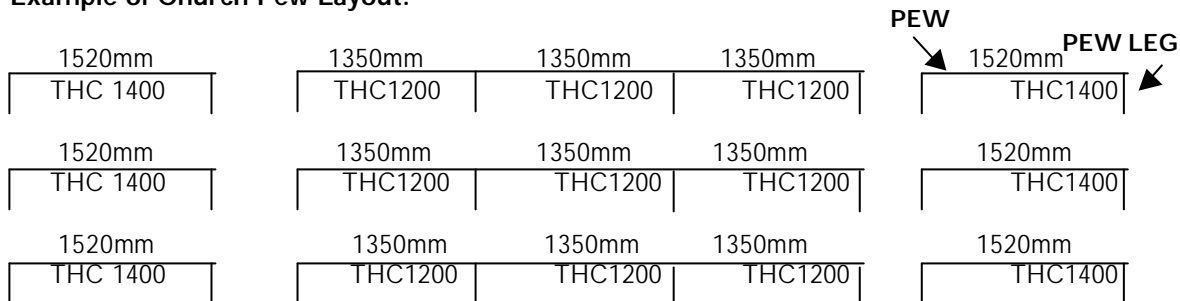
- Check that you have a flat space of 280mm in width to fit the heaters in
- Measure the sections of the pews. These "sections" will be the space between the legs of the pews.
- To determine which length pew heater for each section, allow a minimum of 50mm clearance from each end of the heater to each end of the section. Then choose the closest size heater to this length. Eg. if the pew section is 1350mm long, take away 100mm to allow the minimum of 50mm clearance for each end.

$$1350 - 100\text{mm} = 1250\text{mm space remaining}$$

1200mm length under pew heaters would be recommended for this section

- The simplest way to record your measurements is to do a layout of the pews, showing the legs and the length of the sections of the pews. From this you will then be able to work out what length heater would be best suited for the space provided. You could mark the length of the sections on the top of the "pew" and the heater you are recommending on the underside of the "pew".

Example of Church Pew Layout:



Wiring of heaters supplied

We can supply the heaters wired to suit the application, such as in pairs, triplets etc. In the above design, the THC1200 would be wired in triplets, the THC1400 would come singularly. A flex would then be connected to the end heater. A plug can be connected to the flex also if this is required.

Kilowatt load & Operating Costs

When you have worked out which heaters are required for the pews, you can then calculate the kilowatt (kW) load by simply adding the wattage of each heater together. In the example above, 9 x THC1200 and 6 x THC1400 are required. The wattage for the THC1200 is 260 Watts and for the THC1400 is 310 Watts. Therefore, the kW load is:

$$\begin{aligned}
 9 \times 260 \text{ Watts} &= 2340 \text{ Watts} = 2.34\text{kW} \\
 6 \times 310 \text{ Watts} &= 1860 \text{ Watts} = \underline{1.86\text{kW}} \\
 \text{Total kW load} & \qquad \qquad \qquad \underline{4.20\text{kW}}
 \end{aligned}$$

To work out approximate operating costs, this kilowatt load can be multiplied by the electricity tariff that the church is on. For example, if the church is being charged 14c per kW/hr, approximate operating costs for the heaters would be as follows:

$$4.2\text{kW} \times 14\text{c kW/hr} = 59\text{c per hour}$$



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Control Options

These heaters can be operated by a variety of controls to suit the needs of this application. For example timers can be wired to the heaters. On average, you may need to set the timers to turn the heaters on about ½ an hour before the church is needed. The church may also look at wiring the heaters in zones, so that they have the flexibility to operate the heaters required for a certain area at a certain time.

Heaters on alternate pews?

We are sometimes asked the question, will the heaters provide adequate heating if only installed on every second row? Our experience has been that this is not an adequate solution. We have had a church try this but then have ordered more heaters for the pews they had left out originally.

Special Design Heaters

In some situations, the standard HEATSEAT Underpew Church Heaters may not be able to be mounted, due to the shape of the pew etc. Please contact us if this is the case, and we can investigate a special design to suit the needs of your particular application.

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