

## INSTALLATION PROCESS

Gypsum Ceiling Panels	Wiring & Testing	Connection Enclosure	Ready for Sheetrock	Comfort & Efficiency
 <p>Plastic strapping is placed along the bottom of the trusses to hold the panels in place.</p> <p>The ceiling heaters come in a variety of wattages and sizes for working around obstructions such as can lights, ceiling fans, etc...</p>	 <p>The heating panels are wired in parallel with 12 Ga. wire and 3M-567 connectors. Wiring should be done by a certified electrician and in accordance with NEC code requirements. An Ohms test is done to verify that all the panels are wired correctly and working properly.</p>	 <p>PC-1 Endcaps are used to cover the connections per NEC code requirements.</p> <p>The circuits are wired directly to line voltage thermostats or to a relay control box in conjunction with low voltage thermostats.</p>	 <p>A heat loss should be done to determine the amount of panels needed for each room.</p> <p>A plastic barrier can be placed according to local building codes and then sheetrock added to the ceiling to complete the radiant ceiling system.</p>	 <p>The radiant ceiling system is completely concealed creating an invisible, silent and most importantly comfortable and affordable heating system.</p> <p>Each room can be precisely controlled for even greater savings and individual comfort.</p>
Architectural Series (AS)	Wiring	Install Options	Thermostats & Controls	Comfort & Efficiency
 <p>The AS frames are mounted to the ceiling and then the heaters are placed in the framework. The framework consists of two side channels and two end channels. The Architectural Series (AS) heaters are available in 2' x 2' and 2' x 4' sizes.</p>	 <p>Wiring should be done by a certified electrician and in accordance with NEC code. The AS heaters are wired in series on a circuit using 12 gauge wire. Models available are: 120v, 240v, 208v, and 277v voltages (250 - 750 Watts)</p>	 <p>The framework is 4 inches in height creating a very low profile and slim design.</p> <p>The AS Heaters can also be suspended from the ceiling with cables or chains in high ceiling applications such as in warehouses or manufacturing plants.</p>	 <p>The circuits are wired to Therma-Ray control box and then to the service panel. Line voltage thermostats can also be used depending on the load for each area. For even greater savings &amp; comfort, each area or room can be controlled separately.</p>	 <p>The Architectural Series Heaters create a clean, quiet, safe and comfortable working environment.</p> <p>The AS Heaters are energy efficient and very affordable to operate, especially when comparing to a standard forced-air convection system.</p>
Commercial / Residential	Grid Ceiling Systems			
 <p>High wattage heaters are designed for high heat loss or high ceiling areas and can be installed in grid framework, providing greater design freedom. Used for primary heating and also for removing condensation and ice.</p>	 <p>Lower Wattage heaters can be installed in lower ceiling grid applications as well. Perfect for offices, schools, basements, hospitals, etc. providing unsurpassed comfort and freedom of design.</p>	<p><b>For More Information</b></p> <p>ThermaRay-USA      <a href="http://www.thermaray-usa.com">www.thermaray-usa.com</a> (800) 506-7973      <a href="mailto:info@thermaray-usa.com">info@thermaray-usa.com</a></p> 		