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Infrared Heating Questionnaire

Electric infrared heating technology has been successfully used in industrial processing and commercial applications for many years. The success of a particular application, however, depends upon utilizing the proper infrared source for the given application. In order to choose the correct infrared heater for a given application we need to first focus our attention on the application itself. Understanding the dynamics of the application can mean the difference between success and failure of that application. The following questions should be answered prior to choosing an infrared source:

- 1). What is the required "source" response time?
Does the application require a fast "source" heat-up and cool-down time?
- 2). Are there any special physical demands in which the heater will be subjected?
Is the atmosphere corrosive?
Will there be excessive vibration?
Will parts occasionally come into contact with the infrared source?
- 3). What type of control is required?
Does the application require a closed or open loop control system?
- 4). Does the application require "profiling" or special zoning considerations?
What areas of the application are critical and require special zoning?
- 5). What are the specifications of the "target" material?
Warm-Up Time?
Temperature Required?
Specific Heat?
Latent Heat of Vaporization or Fusion?
Thermal conductivity?
Density?
Physical Size?
Emissivity?
- 6). What is the application cycle time?
How many parts or how much material needs to be processed within a specific time frame.
- 7). What is the area classification? Is it considered hazardous?
Are any hazardous fumes emitted during the process?
- 8). Is there a power limitation on the application?
What voltage, phase, and amperage is available for the heating system?