

# Infrared Heating System for PVC Pipes



Ceramicx, leading manufacturer of custom-built infrared industrial heating ovens and heating systems has recently completed a sucessful project with a European customer which needed to heat different sizes of PVC pipes.

The customer was looking for a complete infrared heating solution and they wanted a frame with infrared elements mounted inside in a fixed position. This frame would encase the pipes. The critical part however was ensuring that PVC didn't melt.

This created a challenge because the PVC pipes were different thicknesses and were 100mm in diameter size. They ranged in thickness from 4 to 10mm and would also be rolling at the same time the heating elements would be operational.

Ceramicx combined all the customer's variances and produced one heating system that could work on all the variations of PVC pipe. Temperature sensors were put into each of the 10 heating zones allowing the customer to ramp the heaters up or down based on the PVC thickness. An additional 100mm heating zone was added to adjust for larger PVC pipe lengths. Ceramicx infrared HTE heaters targeted the PVC pipes to ensure that they could soften prior to the next process.

Ceramicx completed the infrared heating system in approximately 2 weeks, including all the work from welding through to load testing every circuit.

Total Power:	40kW
Element Type:	HTE 500W 230V white
Element Array:	80 heaters- 8 x 10 heater array
Control Zones:	10 control zones
Control Type:	Via embedded T/C k in elements
External Dimensions:	Approx. diameter 450 x 1200mm
Electrical Connection:	3000mm flexible metal

As global, infrared specialists, Ceramicx are experts in the supply of IR systems and components for all infrared industrial ovens



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