

LONGWAVE RADIANT HEATER CONTROL BOX

What is a Longwave Radiant Heater Control Box?

A control box designed to simplify and accelerate multi-Longwave radiant heater installations. Typical PC control box setups require less cabling, fewer MCBs or RCBs, and fewer junction boxes. Installation is faster, with each circuit individually fused, and end users can easily adjust the heat intensity of multiple heaters from a single, simple controller.





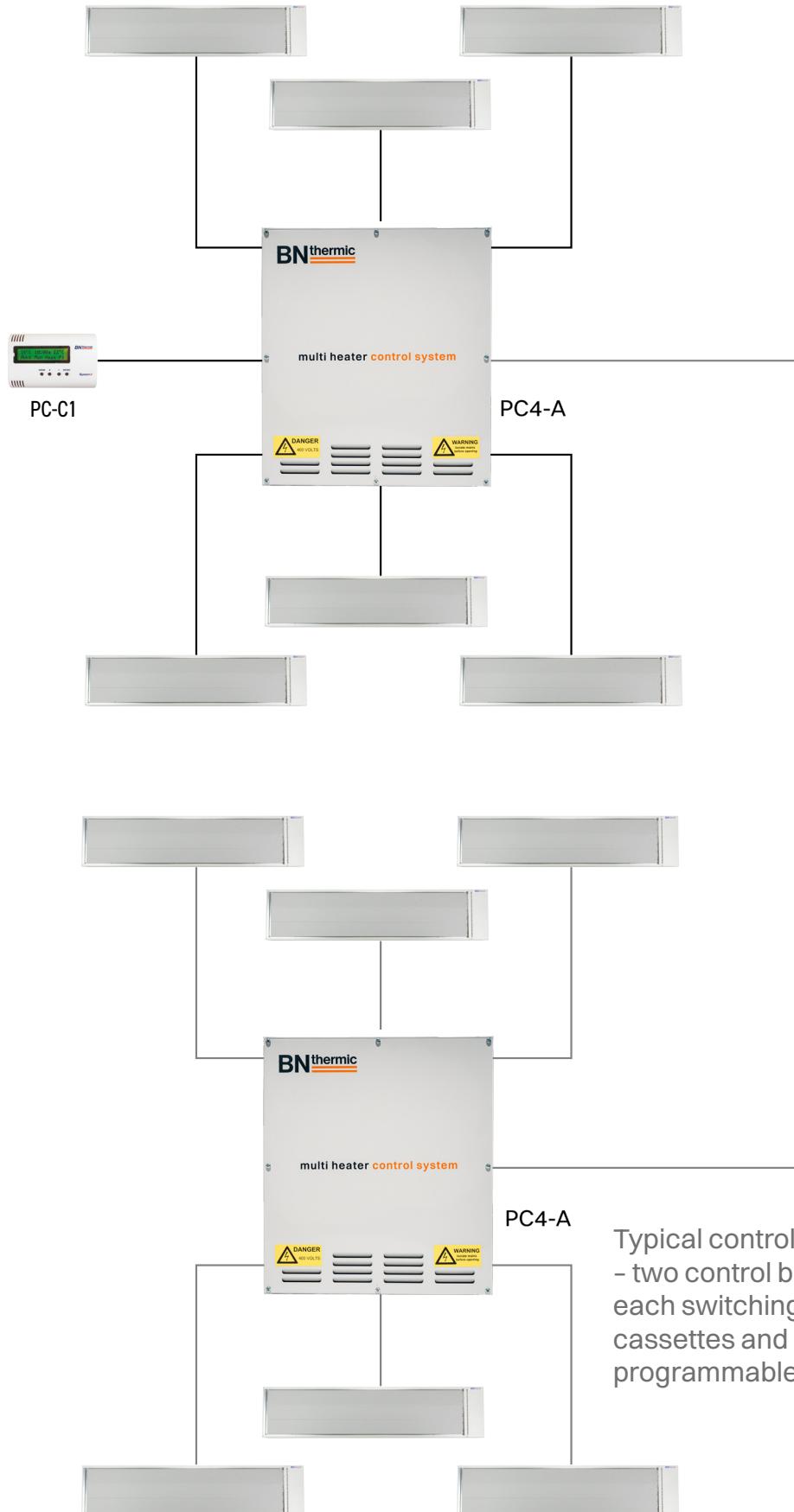
Control Panel Features

- For use with ESP2 Radiant Cassettes and RP3 Radiant Ceiling Panels (see pages 82-83 and 78-79)
- Up to 24 heaters controlled from a single control box (depending on heater output)
- For larger installations up to 10 Boxes can be connected by data cable to use one wall controller
- Can receive a 230V signal directly from a BMS (PC-C1 controller not required)
- Robust steel enclosure
- Compact design – overall dimensions 310 x 350 x 80mm (W x H x D)

Controller Features

- Connected to control box using data cable
- Integral thermostat
- Integral temperature sensor (can be used with remote-mounted sensor when required)
- 7-day programming (up to 6 events per day)
- Optimum start (optional)
- Adaptive stop – reduces temperature 'over/under shoot' improving both comfort and economy (optional)
- Button lock to prevent unauthorised adjustment (optional)

RADIANT HEATERS



Typical control system
- two control boxes,
each switching 6 radiant
cassettes and a single
programmable controller

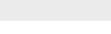
Control Boxes

Model	Description
PC1-A	Control Box for 230V 1ph System
PC2-A	Control Box for 230V 1ph System
PC3-A	Control Box for 400V 3ph System
PC4-A	Control Box for 400V 3ph System
PC5-A	Control Box for 400V 3ph System
PC-C1	Programmable Controller (see page 141)

Control Box Selection

Control Box	Voltage	Max Quantity of Heaters	Heater Model	kW per Heater
PC1	230V 1ph	6	ESP2-12	1.2kW
PC2	230V 1ph	12	RP3-06	0.6kW
	230V 1ph	24	RP3-03	0.3kW
PC3	400V 3ph & N	36	RP3-06	0.6kW
	400V 3ph & N	36	RP3-03	0.3kW
	400V 3ph & N	12	ESP2-18	1.8kW
	400V 3ph & N	12	ESP2-12	1.2kW
PC4	400V 3ph & N	6	ESP2-24	2.4kW
	400V 3ph & N	6	ESP2-30	3.0kW
PC5	400V 3ph & N	6	ESP2-36	3.6kW

Ancillary System Components

Model	Description
	CXS Optional remote-mounted temperature sensor
	DX05 Cat5 cable terminated 5m (white)
	DX10 Cat5 cable terminated 10m (white)
	DX20 Cat5 cable terminated 20m (white)
	JX1 Cat5 Cable Joiner

Cat5 cable used to connect controller to a control box and to interconnect control boxes