

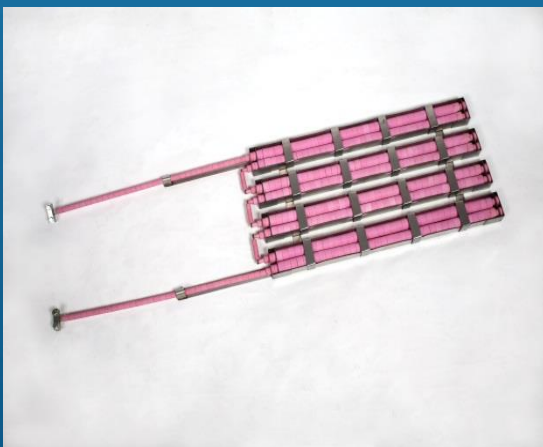
TECHNICAL SPECIFICATION

4-Bank, Single and Double Channel Elements

For post weld heat treatment (PWHT) of large, welded constructions, including steam drums and vessels or for use in furnaces, channel heaters are often more practical than applying large numbers of 60V ceramic heating pad elements. The most common channel element is known as the 4-bank. These elements are powered directly from the incoming 380 V or 415V 3-Phase supply, via a 6-Way, 3-Phase Control trolley (see technical specification sheet for stock reference 14003)

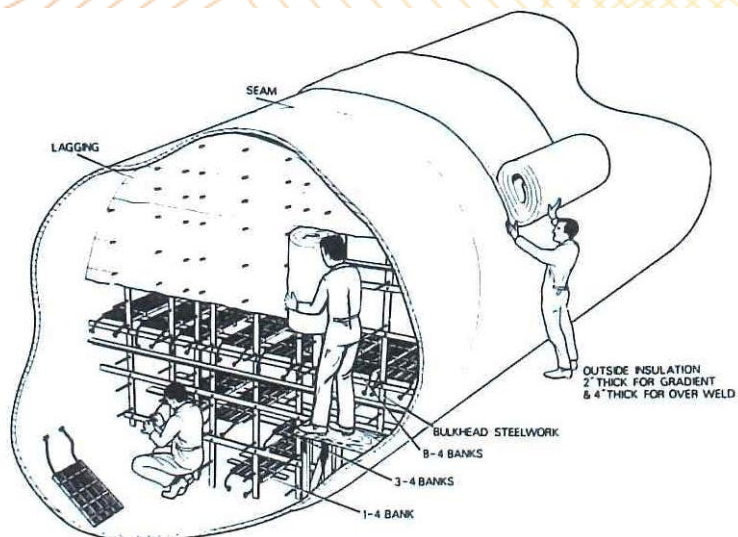
Channel elements can also be supplied utilising 60V or 80V supplies which can be powered and controlled via standard 60V and 80V output, 50kVA or 70kVA heat treatment machines.

Their rugged construction comprises of a stainless steel channel which contains the 9 s.w.g. ICA 135 element coil. Dependent upon customer preference we can also produce, upon request, channel elements with cores formed using Ni Cr 60/16 or 80/20 as the core material.



Application – Internal bulk head heat treatment of vessel seams. (see illustration right)

In specific cases ,in the post weld heat treatment of welded seams of large vessels it is sometimes more practical to make a thermally insulated compartment inside the vessel and then heat the compartment by means of channel elements such as 4-banks. These elements are used to heat the insulated compartment by resting on transversely placed mild steel channels. The compartment is produced by insulating the outside area of the vessel to be heat treated and then enclosed internally by means of two mild steel insulated bulkhead fitted inside the vessel.



Application – Furnace elements (see illustration right)

Because of their high power rating (13.2 kW), 4-bank channel are often utilised as the heat source in temporary or permanent heat treatment furnaces. Elements are fitted to the furnace walls and in some cases in the hearth. The element's rugged and lightweight construction make them ideally suited for use in temporary furnaces.



Stock No.	Item	Voltage	Current	Power	Dimensions mm
27850	Four-Bank Channel Element ICA 135	240V	55A	13.2kW	1,335L x 360W
27851	Four-Bank Channel Element ICA 135	220V	55A	12.1kW	1,335L x 360W
27932	Single Channel Element ICA 135	60V	55A	3.3kW	960L x 70W
27933	Single Channel Element ICA 135	80V	55A	4.4kW	1,190L x 70W
27975	Hot Leads (per metre)				

*Other sizes and voltages available on request