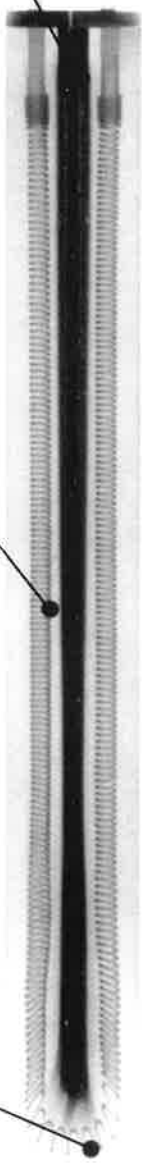


CARTRIDGE HEATER COMPARISON

Watt-Flex[®] SPLIT SHEATH HEATER



The diagram shows a long, cylindrical cartridge heater with a split sheath. A label 'Split sheath' points to the top edge of the outer casing. A label 'Continuous coil' points to the internal heating element. A label 'Tip may be' points to the bottom end of the heater. To the right of the heater, there are two bullet points: '• Cool (as shown)' and '• Fully heated (by leaving coil unstretched)'. To the left of the heater, there are three bullet points: '• Expands when energized to contact bore', '• Contracts when de-energized for ease of removal', and '• Produces uniform temperature profile'. Below these, another bullet point states '• Eliminates the possibility of sections burning out'.

- Expands when energized to contact bore
- Contracts when de-energized for ease of removal
- Produces uniform temperature profile
- Eliminates the possibility of sections burning out


Split sheath

Continuous coil

Tip may be

- Cool (as shown)
- Fully heated (by leaving coil unstretched)

CONVENTIONAL CARTRIDGE HEATER



The diagram shows a conventional cartridge heater with a continuous coil. A label 'Independent coil sections can burn out leaving half the heater cold.' points to a gap in the coil. A label 'Lack of coils at junctions produces cool spots.' points to a junction between two coil sections. A label 'Design and construction prohibit heated tip.' points to the bottom end of the heater. To the left of the heater, there are two bullet points: '• Expands when energized to contact bore' and '• Contracts when de-energized for ease of removal'.

- Expands when energized to contact bore
- Contracts when de-energized for ease of removal

Independent coil sections can burn out leaving half the heater cold.

Lack of coils at junctions produces cool spots.

Design and construction prohibit heated tip.



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