

Kapton Foil Heaters 317-KAPH-xxx

Flexible Kapton® insulated heaters are available from Allectra in various sizes from ø 12.7mm (1/2") to 102mm x 102 mm (4" x 4"). The excellent outgassing properties of Kapton make them ideal for vacuum applications. An etched heating element is embedded in-between two thin foils of Kapton.

The complete heater has an average thickness of ~0.15mm. The contact area for the cables is approx. 1.1mm thick.

Installation and operation (Valid for all sizes):

- do not use in liquids
- do not cut or modify the heaters
- Min. bend radius is 1mm, do not exceed it
- an appropriate heat sink must be attached to avoid overheating. Good thermal contact over the entire heater surface is required. (317-TCL-1 / 317-TCP-20x20 / 317-TCP-38x38 can be used in vacuum for good thermal contact)
- do not overheat. Max. rated temperature is 200°C / 260°C. See technical data below for maximal values, for versions not shown, see sticker on product.

Technical data:

	317-KAPH-13-C	317-KAPH-25x25	317-KAPH-25x50	317-KAPH-50x50	317-KAPH-102x102
Old Part code	317-KAPH-0.5-V3	317-KAPH-1/1-V3	317-KAPH-1/2-V3	317-KAPH-2/2-V3	317-KAPH-4/4-V3
Size	ø 12.7mm	25 x 25mm ²	25 x 50mm ²	50 x 50mm ²	102 x 102mm ²
Nom. Voltage	12V	24V	24V	24V	110V
Max. Voltage	14V	28V	28V	28V	115V
Max. Power	8W	30W	40W	40W	160W
Max. Current	0.5A	1A	1.4A	1,4A	1,4A
Resistivity@20°C	24,5Ω	26Ω	19,6Ω	19,6Ω	83Ω
Cable	KAPTON, 0.35mm ø, 1m long				
Dielectric strength	500V				
Temperature	-200 ...+200°C	-270°C ... +260°C			
Min bend radius	1mm				

Values for power and resistivity have a tolerance of +/-10%



317-TCL-1: Liquid metal in a syringe. At 500°C the vapour pressure is still below 10⁻⁸ mbar.

317-KAPH-25x50 and
317-KAPH-50x50

