

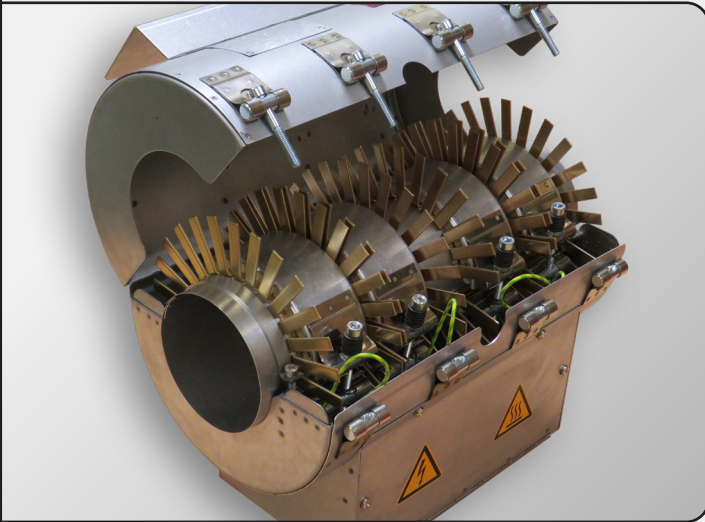
DESIGN OPTIONS

DESIGN A

DESIGN B

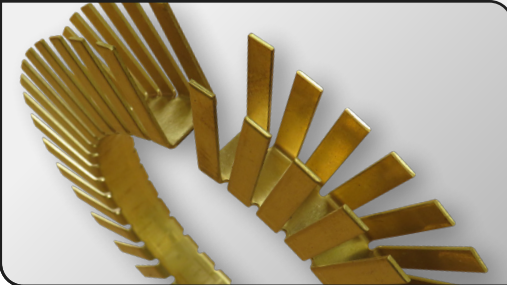
DESIGN OVERVIEW

Design A is our standard Heater/Cooler design, consisting of a bank of ceramic heater bands enclosed in a steel air shroud. These are available in single phase or three phase configurations, and can be supplied with a power cable upon request.



Heater Type	Standard Ceramic Bands		
Shroud Material	Aluminised Steel		
Max. Temperature	400°C		
Voltage	230V	230/400V (λ)	3x400V (Δ)
Max. Watt Density	6.5W/cm ²		
Flash Test	1000V		
Minimum Ø	60mm Ø		
Maximum Ø	500mm Ø		
Minimum Length	100mm		
Maximum Length	1000mm		
Cable Type	Glass Fibre	Steel Braid	Silicone

ADDITIONAL HEAT SINKS



For circumstances where extensive cooling is required, brass heat sink bands can be implemented to the design.

For Design A, the brass heat sink bands are situated underneath each individual ceramic heater band, creating an extra layer between the heater band and the extruder. This configuration allows the heat to dissipate directly from the heater band, thus allowing a more direct cooling when used in conjunction with cooling fans.

COOLING FANS

Cooling Fans are a mandatory supplement for all Heater/Coolers in order to allow the cooling process. These fans require their own individual power supply typically rated to the same voltage as their corresponding Heater/Cooler.

Every Heater/Cooler will have an intake for the cooling fan to be mounted, this is typically located in conjunction with the power termination gland. The exact specification of the Cooling Fan will be decided upon by ourselves during the design process.

For more information and to see our entire product range, please refer to our "Cooling Fans Datasheet".



BESPOKE REQUIREMENTS

Our Heater/Coolers can be manufactured to account for specific requirements, such as cut outs for obstructions along the extruder, or holes for thermocouples and transducers. Please contact our sales representatives to arrange a site visit and survey the extruder in order to ensure the Heater/Cooler is perfectly tailored for your extruder.



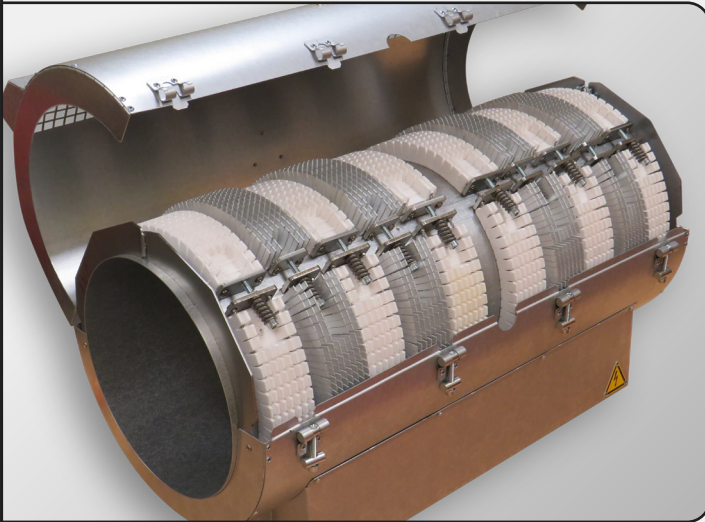
DESIGN OPTIONS

DESIGN A

DESIGN B

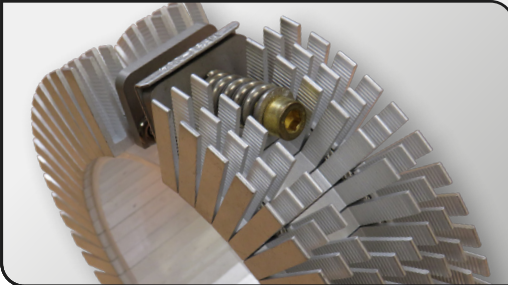
DESIGN OVERVIEW

Design B is a heavy-duty equivalent of Design A. The main differences being the ceramic heater bands comprised of a unique ribbed design, allowing for more heat distribution, a greater operating temperature and a higher watt density.



Heater Type	Ribbed Ceramic Bands		
Shroud Material	Aluminised Steel		
Max. Temperature	500°C		
Voltage	230V	230/400V (λ)	3x400V (Δ)
Max. Watt Density	7W/cm ²		
Flash Test	1000V		
Minimum Ø	60mm Ø		
Maximum Ø	500mm Ø		
Minimum Length	100mm		
Maximum Length	1000mm		
Cable Type	Glass Fibre	Steel Braid	Silicone

ADDITIONAL HEAT SINKS



For circumstances where extensive cooling is required, aluminium heat sink bands can be implemented to the design.

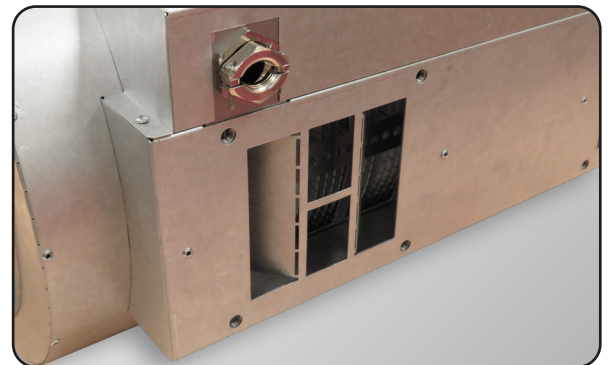
For Design B, the aluminium heat sink bands are separate to the ceramic heater bands, and are situated between each ceramic heater band along the length of the barrel. This configuration allows for the unheated sections of the barrel to dissipate heat faster, thus allowing more efficient cooling when used in conjunction with cooling fans.

COOLING FANS

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Every Heater/Cooler will have an intake for the cooling fan to be mounted, this is typically located in conjunction with the power termination gland. The exact specification of the Cooling Fan will be decided upon by ourselves during the design process.

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