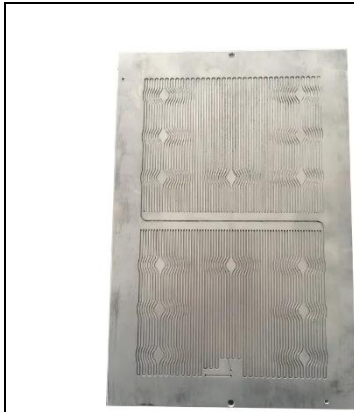


Flat Pulsating Heat Pipe (PHP)

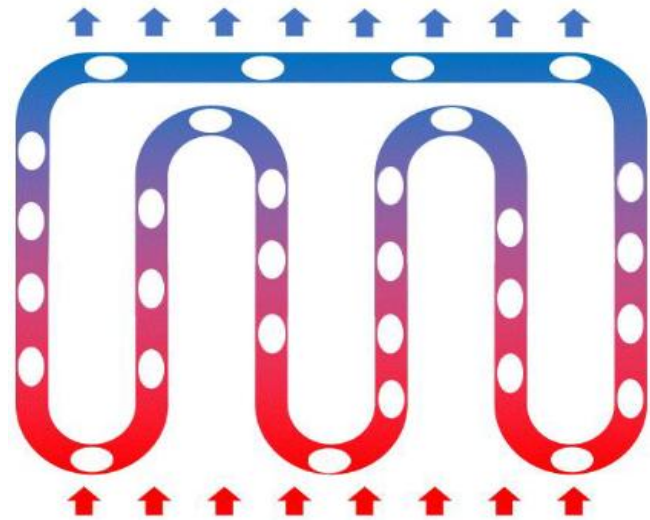
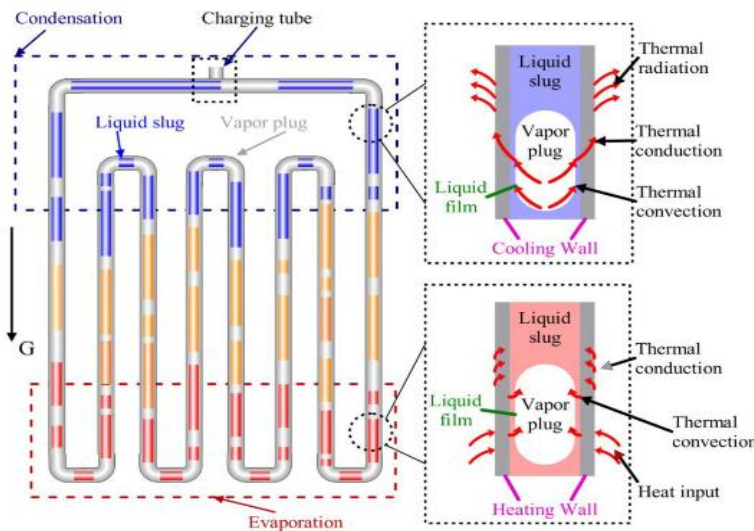


- Excellent Anti-Gravity Properties, higher power = better anti-gravity performance.
- PHP has light weight and low thermal resistance compared to copper vapor chambers.
- Can be bent to required specifications with no impact on thermal conductivity
- Supports more than 1000-Watt heat dissipation.
- Heat Conductivity up to 20000 W/m. K
- Pressure driven cooling, PHP can operate in micro and hyper gravity with orientation of the pipes having no effect to performance.

[Unique Characteristics](#)

[Applications](#)

[E-Catalogue](#)



Performance Comparison					
Material	Density [g/cm ³]	Heat Transfer	Thermal Conductivity [W/m.K]	Heat Flux [W/cm ²]	Min Thickness
Aluminium	2.7	3D	~210	N/A	N/A
Copper	8.9	3D	~400	N/A	N/A
Graphite	2.3	2D	~2200 Laterally	N/A	N/A
Heat Pipe	~3.5	1D	~5000	75	3mm
Copper VC	4~7.6	2D	~10000	750	3mm
PHP	1.1~2.4	2D	~20000	>1000	<1mm

Applications – Automotive, Digital Displays, Solar Technology, Communication devices.

ANNOTATION

All specifications shown herein are typical values and are not guaranteed. It is recommended to test in the application for suitability.