

General Specification

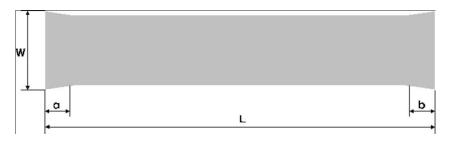
Item		Description	
Part Number		MHP-2550A200A	
Material of Container		Aluminium 1070	
Wick Structure		Groove	
Working Fluid		Acetone	
	Thickness	2.5 mm	
Dimension	Width	50.0 mm	
	Length	200 mm	
Weight		30 g (Unit Weight)	
	Horizontal	75.0 W (at 50°C)	
Qmax	Vertical	270.0 W (at 50°C)	
Typical Thermal Resistance		<0.2°C / W (Average)	
Operating Inclination, Ø		0 ~ 90°	
Leak Temperature Criterion		170°C	

Scope

This specification details the requirements and applications for 2.5 mm x 50.0mm x 200.0mm.

Dimensions

The dimensional attributes of this shall conform to the following figure.



Thickness (t)	Width (W)	Length (L)	Ineffective Length (a)	Ineffective Length (b)
2.5 mm	50.0 mm	200.0 mm	2.5 mm	2.5 mm

[Material]

Container	Aluminium 1070	
Working Fluid	Acetone	
Surface Treatment	None	

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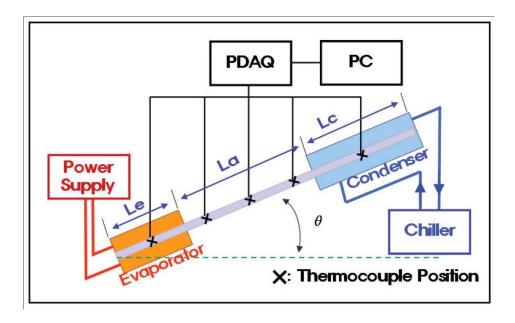
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Test Data for MHP-2550A150A



Qmax Test Apparatus

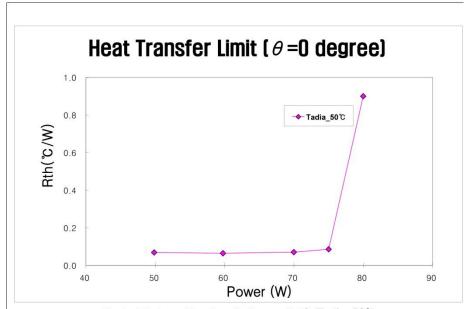


Fig. 3 Maximum Heat Transfer Rate at Θ =0°, Tadia=50°C (Le=30mm, La=70mm, Lc=50mm)

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Test Data for MHP-2550A150A

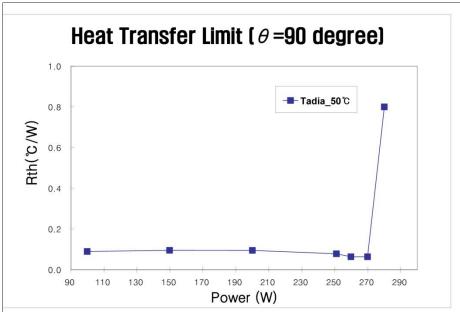


Fig. 4 Maximum Heat Transfer Rate at Θ =90°, Tadia=50°C (Le=30mm, La=70mm, Lc=50mm)

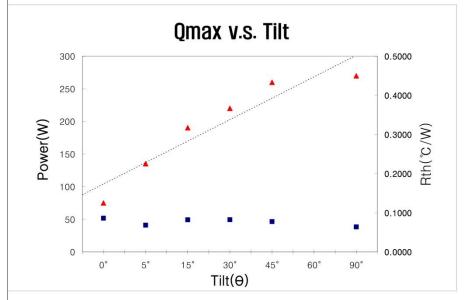


Fig. 5 Maximum Heat Transfer Rate vs. Inclination at Tadia=50℃ (Le=30mm, La=70mm, Lc=50mm)

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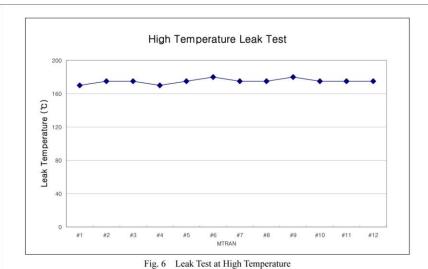
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Test Data for MHP-2550A150A

High Temperature Leak Test

A thermal response test and vacuum leakage check are carried out to ensure its operation. The mechanical pinch of container results in a cold weld seal. The average leak temperature is about 170°C.



Thermal Response Test

A thermal response test and vacuum leakage check are carried out to ensure its operation. The experimental test bench is schematically shown in Fig.6. Water bath temperature, (Tw) is set at 50°C and the temperature of other end, (Tt) is measured immediately after it is placed vertically into the water bath. The criterion for acceptance is 5° C (Tw – Tt).

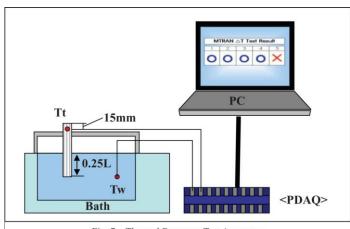


Fig. 7 Thermal Response Test Apparatus

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