

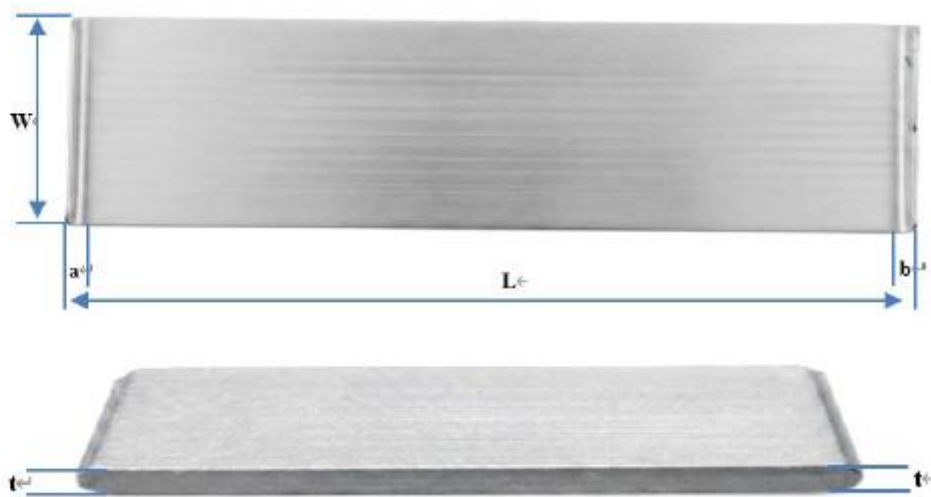
FLAT HEAT PIPE / MHP-1630A200A

General Specification

Item		Description
Part Number		MHP-1630A200A
Material of Container		Aluminium 3003
Wick Structure		Groove
Working Fluid		Acetone
Dimension	Thickness	1.6 mm
	Width	30.0 mm
	Length	200 mm
Weight		12 g (Unit Weight)
Qmax	Horizontal	11 W (at 50°C)
	Vertical	34 W (at 50°C)
Typical Thermal Resistance		<0.25°C / W (Average)
Operating Inclination, Ø		0 ~ 90°
Operating Temperature		-40 ~ 180°C

Dimensions

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



Thickness (t)	Width (W)	Length (L)	Ineffective Length (a)	Ineffective Length (b)
1.6 ± 0.1	30.0 ± 0.15	200.0 0/-1	3.0	3.0

Dimensions are in mm

Material

Container	Aluminium 3003
Working Fluid	Acetone
Surface Treatment	None

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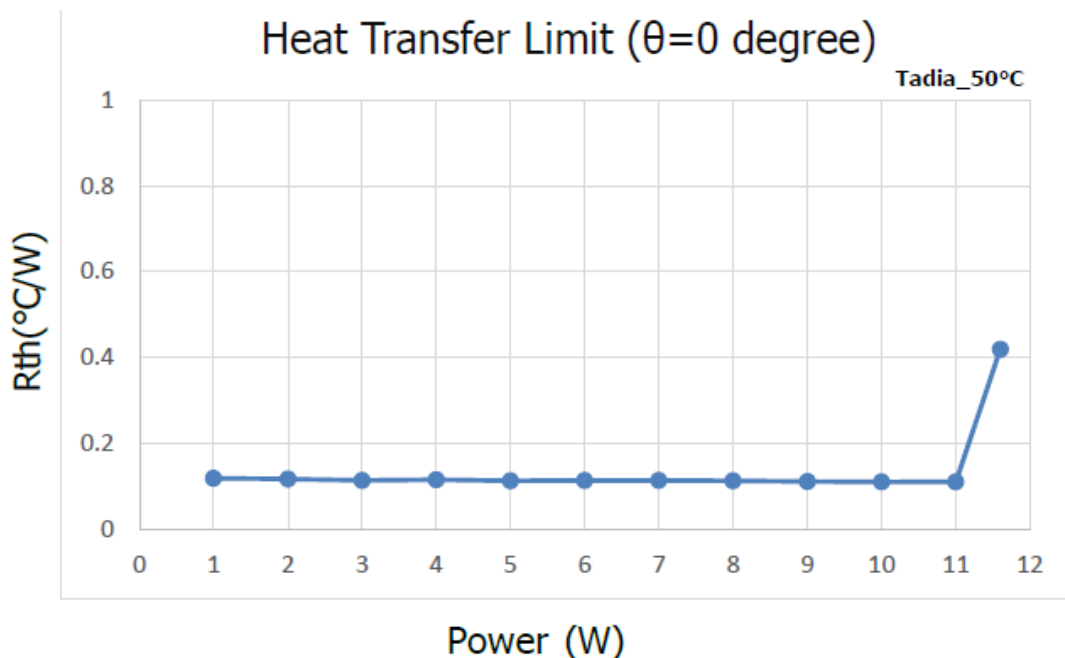
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Qmax Test Apparatus

Operating Range

	Operating	Storage
Temperature	-40 ~ 180°C	-10 ~ 40°C
Humidity	80 % RH Max (at 60°C)	80 % RH Max (at 60°C)
Tilt Angle	0 ~ 90 degree	Horizontal

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High Temperature Leak Test

Every manufactured component is sealed with a mechanical pinch system. The mechanical pinch of container results in a cold weld seal. The average leak temperature is about 170°C.

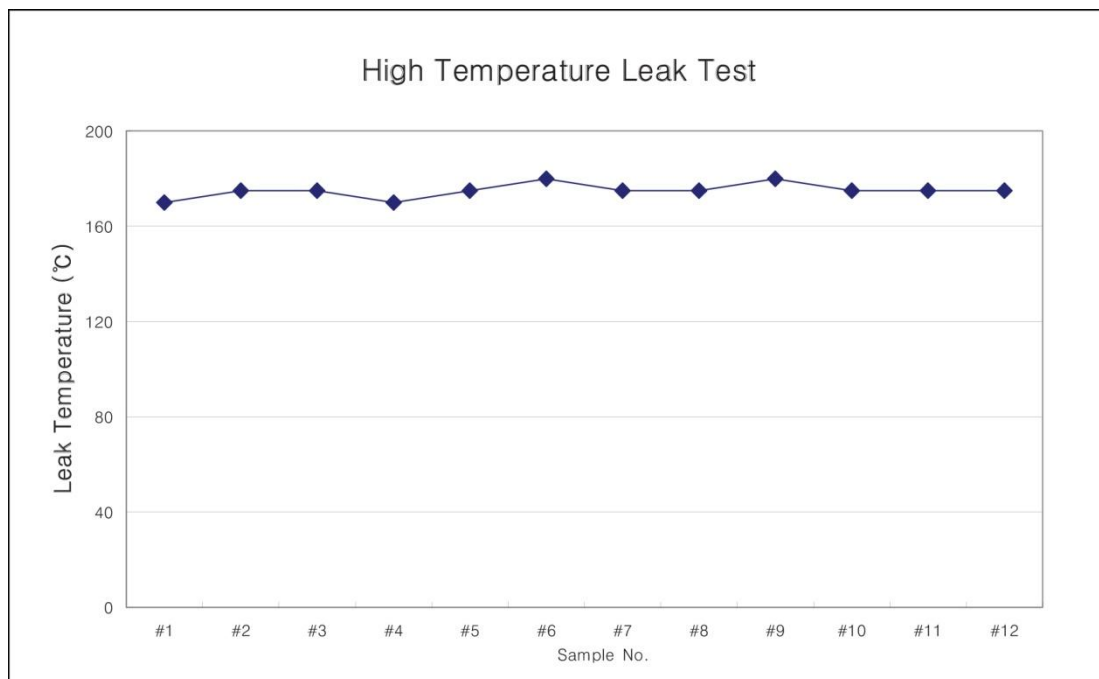


Fig. 6 Leak Test at High Temperature

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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 ($T_w - T_t$).

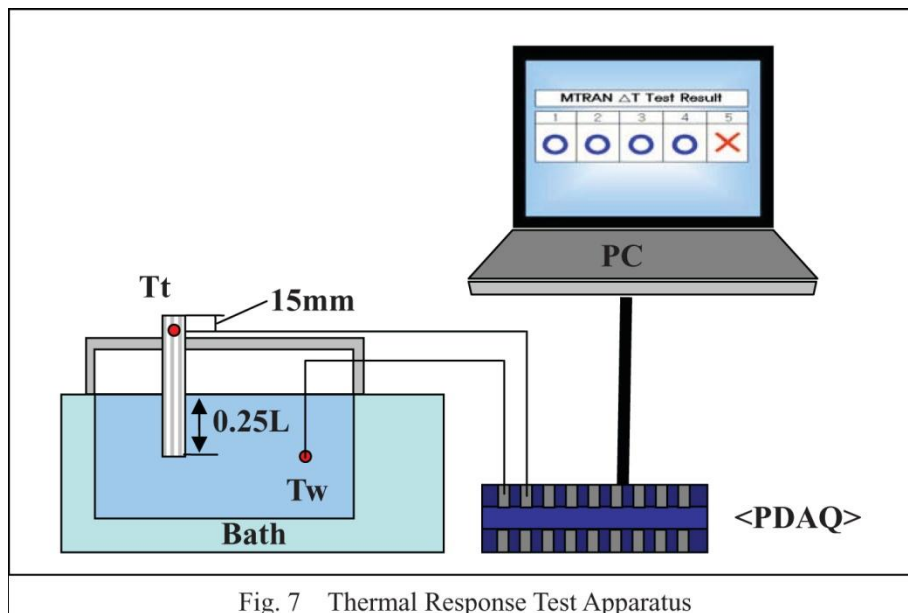


Fig. 7 Thermal Response Test Apparatus

ANNOTATION

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

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