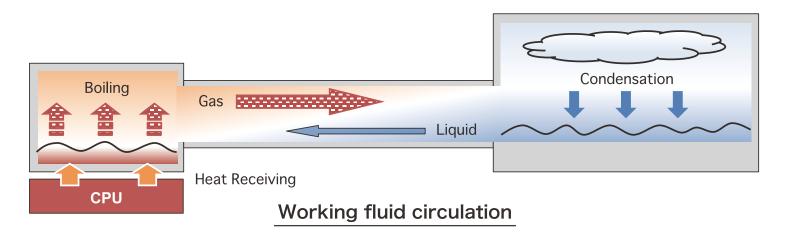
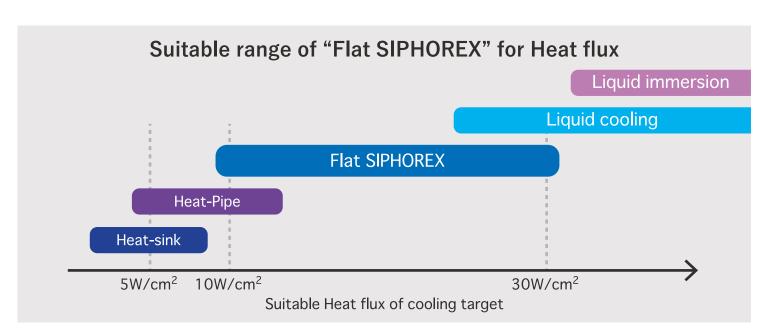
Flat SIPHOREX 2-phase cooling solution

Basic structure

Evaporator (On cooling target) Material: Aluminum alloy

A two-phase thermo-siphon consists of a closed system, vacuumed and filled with a working fluid. The working principle of a two-phase closed thermo-siphon is shown in the picture on the below.





Flat SIPHOREX 2-phase cooling solution

Characteristics

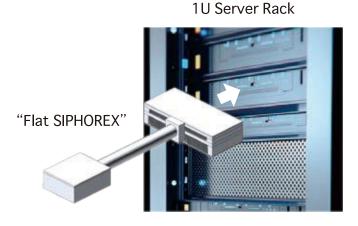
Compactness

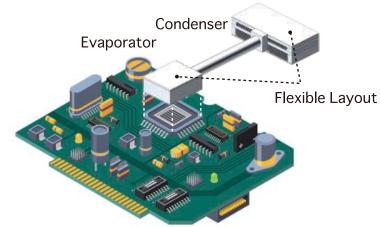
"Flat SIPHOREX" is low-height and flat, which can be housed with the motherboard in 1U server.

Flexibility

Evapolator and Condenser of "Flat SIPHOREX" are connected with just pipe (with no pump).

It allows flexible layout design for the motherboard and CPU cooler.





Performance example

Condition

Air Temperature	35 ℃
Air velocity	3 m/s
Heat source area	50 mm x 50 mm
Heat load	350 W



Flat SIPHOREX

Result

