

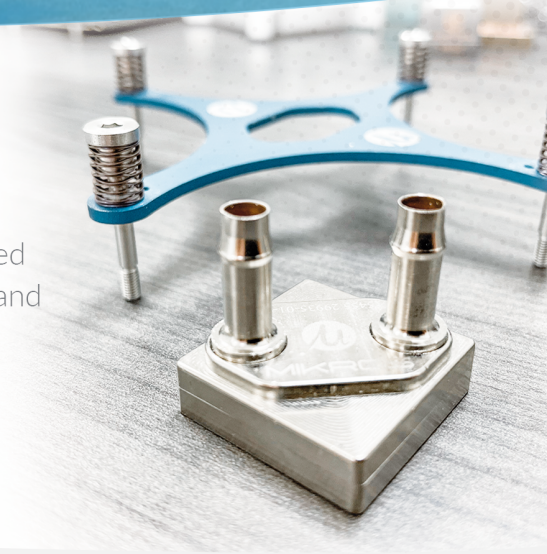


AX-25

Data Sheet

High Performance Liquid Cooling:

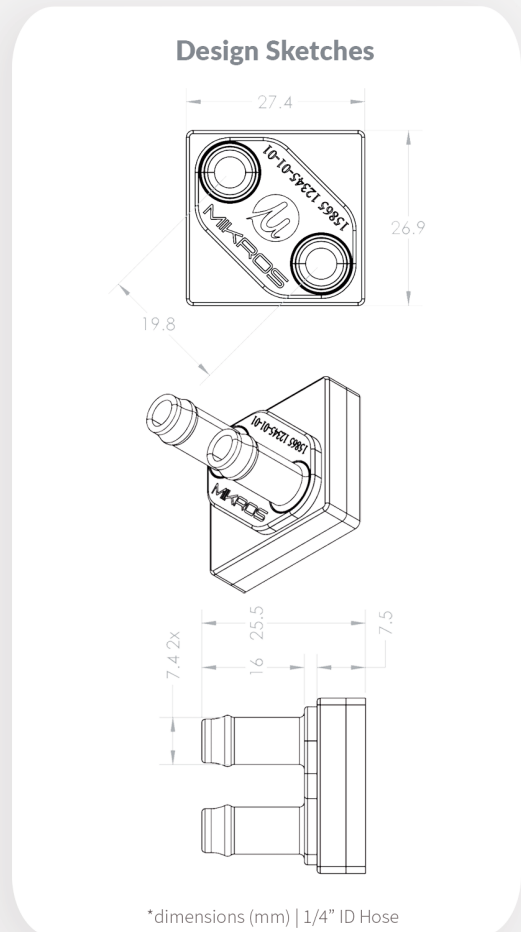
The Mikros AX-25 is the first cold plate in the Ascutney series. Utilizing our MikroMatrix technology, this cold plate is optimized for high heat flux semiconductors. With high cooling capacity and low pressure drop, it can improve performance on existing systems or evaluate Mikros' cooling technology for custom development.



Ascutney Series Technology:

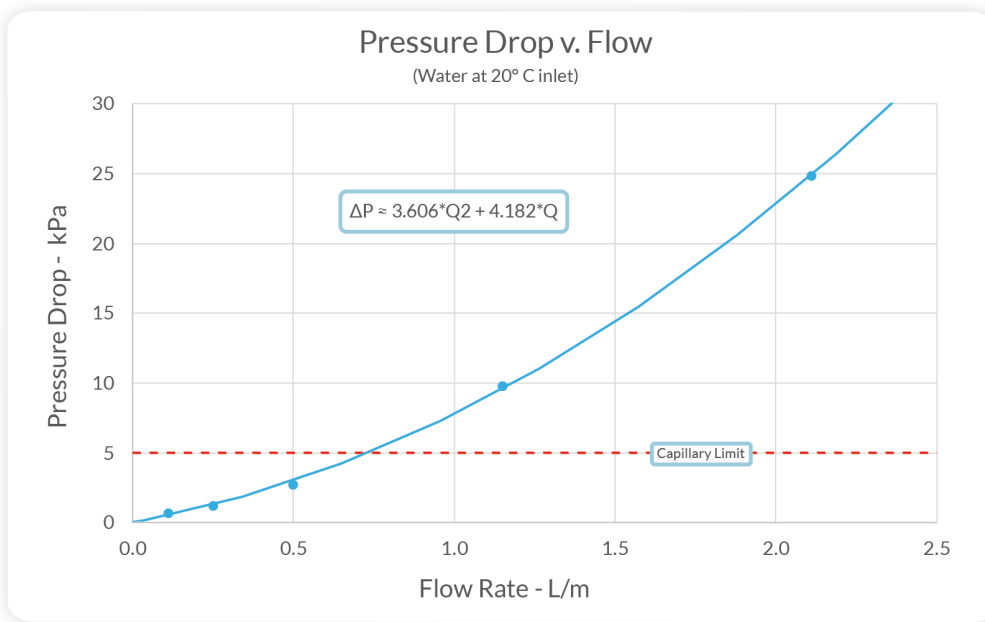
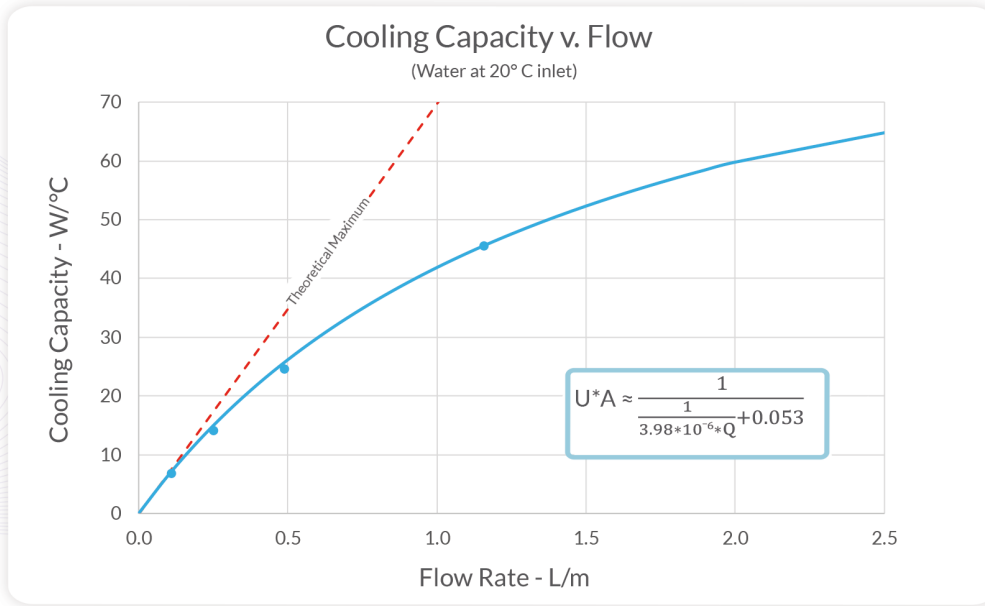
- **High Cooling Capacity** as high as 120 W/C at 2 LPM
- **Low Pressure Drop** near 15 kPa (2 psi) at 2 LPM
- **High Cooling Value** average \$0.25 per Watt dissipated*
- **High Reliability** endurance tested for over 18 years
- **Tailored Cooling** available with 0 deg temp gradients
- **Custom Mounts** available upon request
- **To Order:** info@mikros.net
- **Naming Scheme:** AX-xxyy-z₁z₂

xx= x-dimension (barb direction) z₁ = Flow Rate: [H]igh, [L]ow
 yy= y-dimension z₂ = Barb Type: [S]traight, [N]inety-Deg





AX-25 Performance Characteristics with Water



HIGH COOLING CAPACITY ELITE



$$R^* = \text{Resistivity} \equiv \frac{T_c - T_{in}}{q / A}$$

$$R^* = R_{core}^* + R_{flow}^*$$

$$R_{flow}^* = \frac{A}{\rho \cdot c_p \cdot Q}$$

- T_c = cold plate surface temp
- T_{in} = fluid inlet temp
- A = active area – 25 mm x 25 mm
- q = heat flow
- R_{core}^* = core resistivity
- R_{flow}^* = flow sensible heating resistivity
- Q = water flow rate
- ρ = density of water
- c_p = specific heat of water