AAVID
THERMAL DIVISION OF BOYD CORPORATION

TECHNICAL DATASHEET

TUBED COLD PLATES

PRODUCT DESCRIPTION

Boyd's tubed cold plates provide cost-effective thermal solutions for component cooling applications where the heat load is low-to-moderate. Tubed cold plates consist of copper or stainless steel tubes pressed into a channeled aluminum extrusion.

RoHS COMPLIANT

TUBED COLD PLATE TECHNICAL SPECIFICATIONS

	Tubed Material/ Wetted Path	Configuration	Mounting Surface mm (in)	Weight Kg (lb)	Fluid Volume ml (Cu in)
CP10G01	Copper	2-Pass	152.4 x 88.90 (6 x 3.5)	0.4 (1.0)	20 (1.2)
CP10G03	Stainless Steel	2-Pass	152.4 x 88.90 (6 x 3.5)	0.4 (1.0)	20 (1.2)
CP10G05	Copper	2-Pass	304.8 x 88.90 (12 X 3.5)	0.8 (1.6)	39 (2.4)
CP10G07	Stainless Steel	2-Pass	304.8 x 88.90 (12 X 3.5)	0.8 (1.6)	39 (2.4)
CP10G14	Copper	4-Pass	152.4 x 88.90 (6 x 3.5)	0.4 (1.0)	39 (2.4)
CP10G16	Stainless Steel	4-Pass	152.4 x 88.90 (6 x 3.5)	0.4 (1.0)	39 (2.4)
CP10G18	Copper	4-Pass	304.8 x 88.90 (12 X 3.5)	0.8 (1.6)	78 (4.8)
CP10G20	Stainless Steel	4-Pass	304.8 x 88.90 (12 X 3.5)	0.8 (1.6)	78 (4.8)
CP12G01	Copper	4-Pass	152.4 x 127.0 (6 x 5)	0.8 (1.7)	33 (2)
CP12G05	Copper	4-Pass	304.8 x 127.0 (12 x 5)	1.5 (3.3)	56 (3.4)
CP15G01	Copper	6-Pass	152.4 x 95.25 (6 x 3.75)	0.4 (0.8)	23 (1.4)
CP15G05	Copper	6-Pass	304.8 x 95.25 (12 x 3.75)	0.9 (2.0)	39 (2.4)

TUBED COLD PLATE FEATURES

- Our cold plates are manufactured using oyd's proprietary Press-Lock technology, which mechanically locks the tubes into the aluminum plate. This technology eliminates the need for performance-limiting epoxy between the tube and the plate, resulting in superior thermal performance. Compared to similar tubed cold plates, the CP12 cold plate offers 30% better performance and the CP15 offers 40% to 50% better performance.
- Copper tubes are compatible with water and most other common coolants. tainless steel tubes can be used with deioni ed water or corrosi e fluids.
- Each tubed cold plate has a single tube with no joint, ensuring leak-free operation.
- The tubes of the CP12 and CP15 cold plates are coplanar with the plate to allow for dual-sided mounting. The cold plate s tube side offers higher performance as the copper tubes are in direct contact with the component being cooled.