



#### 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.



#### 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 Boyd'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. Stainless steel tubes can be used with deionized water or corrosive 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.

**NOTICE:** This information is being provided for reference purposes only. Boyd Corporation and its affiliates reserve the right to modify or update this information from time-to-time without notice. No representation is made as to the accuracy of and no express or implied warranties are provided for the information or products contained in this data sheet, and no liability shall be assumed for the application or use thereof. For additional information, please contact [customerservice@boydcorp.com](mailto:customerservice@boydcorp.com). © 2019 Boyd Corporation All Rights Reserved

