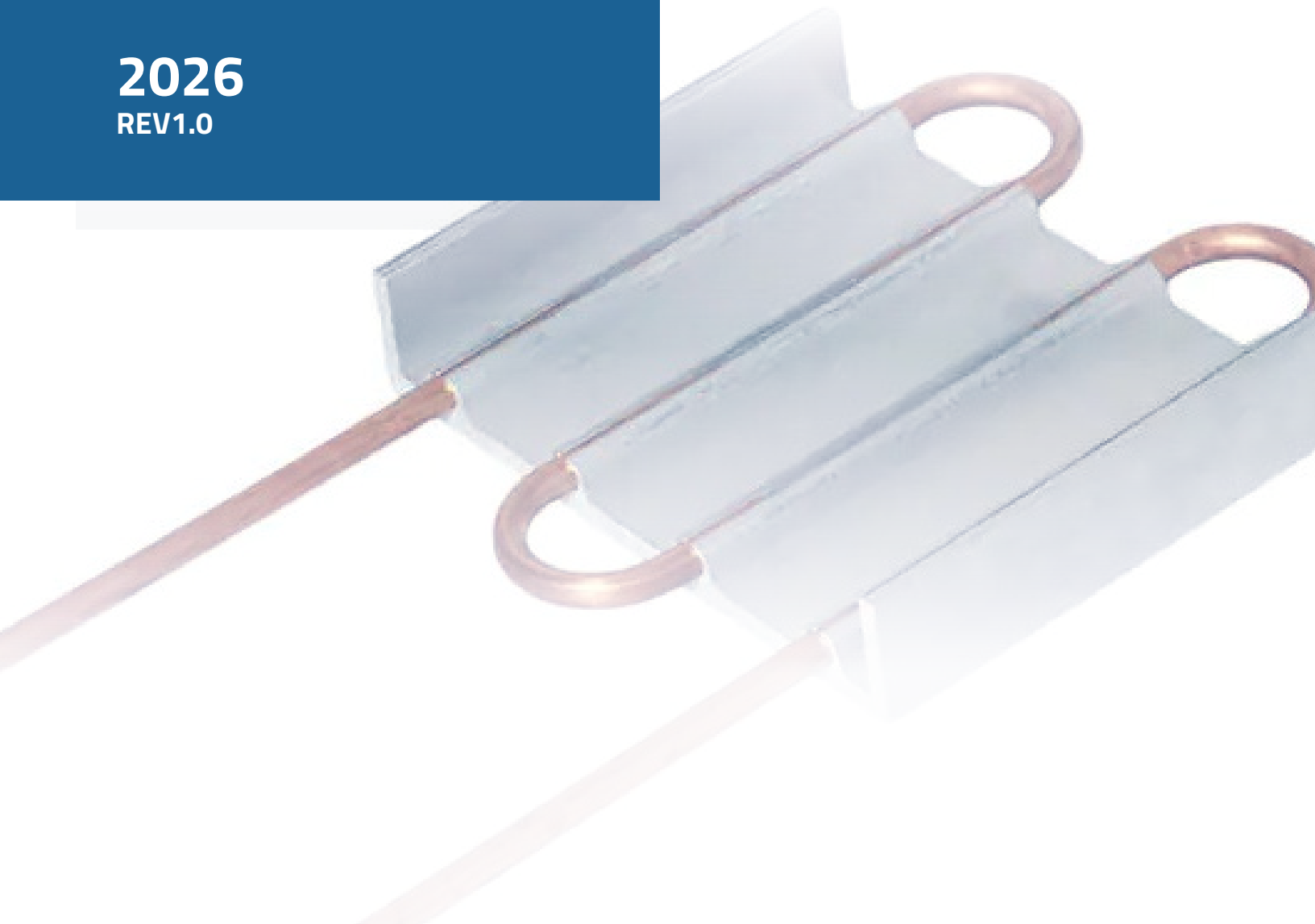
WAKEFIELDTHERMAL

LIQUID COLD PLATES

2026
REV1.0



Total Thermal Solution

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WTS001_p50-68 6/14/07 10:46 AM Page 62

WAKEFIELDTHERMAL

LIQUID COLD PLATES FOR HIGH-PERFORMANCE COMPONENTS AND SYSTEMS



180-10 & 180-11 SERIES

Liquid Cold Plates for Rectifiers and Power Diodes

GENERAL PURPOSE

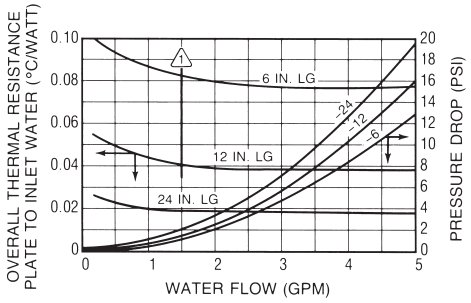
Standard P/N	Cold Plate Body Nominal Dimensions Length "A" in. (mm)	Width in. (mm)	Thickness in. (mm)	Channel Width in. (mm)	Overall Length in. (mm)	Overall Thermal Resistance (Plate to Inlet Water)	Weight lbs (grams
180-10-6C	6.000 (152.4)	3.000 (76.2)	0.625 (15.9)	1.250 (31.8)	13.406 (340.5)	0.084°C/W @ 1.5 GPM	0.850 (385.56)
180-10-12C	12.000 (304.8)	3.000 (76.2)	0.625 (15.9)	1.250 (31.8)	19.406 (429.9)	0.041°C/W @ 1.5 GPM	1.700 (771.12)
180-10-24C	24.000 (609.6)	3.000 (76.2)	0.625 (15.9)	1.250 (31.8)	31.406 (797.7)	0.020°C/W @ 1.5 GPM	2.900 (1315.4)
180-11-6C	6.000 (152.4)	5.000 (127.2)	0.688 (17.5)	1.813 (46.1)	13.688 (347.7)	0.084°C/W @ 1.5 GPM	1.500 (680.40)
180-11-12C	12.000 (304.8)	5.000 (127.2)	0.688 (17.5)	1.813 (46.1)	19.688 (500.1)	0.041°C/W @ 1.5 GPM	2.867 (1300.47)
180-11-24C	24.000 (609.6)	5.000 (127.2)	0.688 (17.5)	1.813 (46.1)	31.688 (804.9)	0.020°C/W @ 1.5 GPM	5.730 (2599.13)

Material: aluminum, no finish. Tubing: copper (stainless steel tubing available on special order).

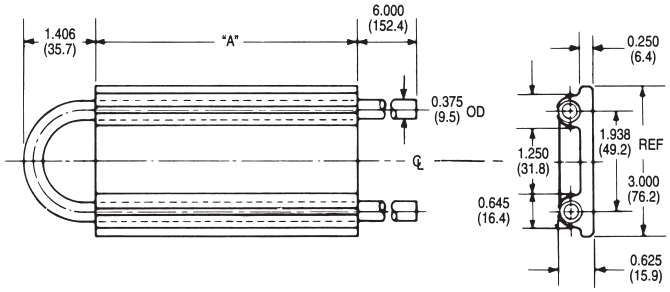
LOCAL THERMAL RESISTANCE PER DEVICE PLATE TO INLET WATER (°C/WATT)

℄ to ℄ Device Spacing Inches	Flow - GPM				
	½	1	2	3	4
1.0 (25.4)	0.59	0.52	0.48	0.47	0.46
2.0 (50.8)	0.40	0.36	0.33	0.32	0.31
3.0 (76.2)	0.29	0.26	0.24	0.23	0.22

PERFORMANCE CHARACTERISTICS

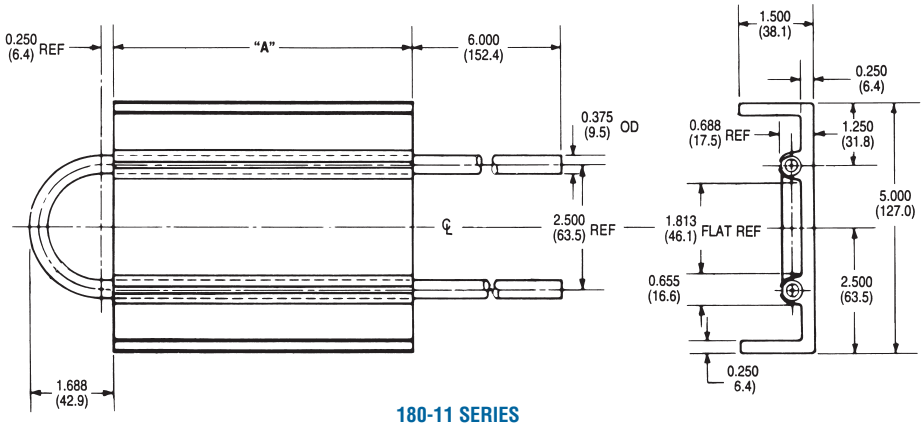


MECHANICAL DIMENSIONS



Standard P/N	Length "A" in. (mm)
180-10-6C	6.000 in. (152.4)
180-10-12C	12.000 in. (304.8)
180-10-24C	24.000 in. (609.6)
180-11-6C	6.000 in. (152.4)
180-11-12C	12.000 in. (304.8)
180-11-24C	24.000 in. (609.6)

180-10 SERIES



180-11 SERIES

Dimensions: in. (mm)

WTS001_p50-68 6/14/07 10:46 AM Page 63

LIQUID COLD PLATES FOR HIGH-PERFORMANCE COMPONENTS AND SYSTEMS



180-12 & 180-20 SERIES

Liquid Cold Plates for Rectifiers, Diodes, and Power Modules

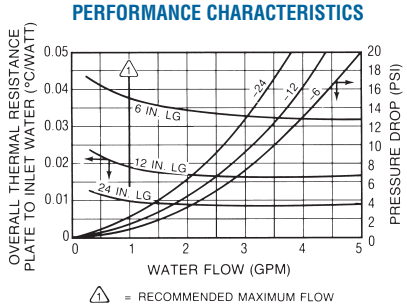
GENERAL PURPOSE

Standard P/N	Cold PLate Body Nominal Dimensions Length "A" in. (mm)	Width in. (mm)	Thickness in. (mm)	Mounting Surfaces	Overall Thermal Resistance Overall Length in. (mm)	(Plate to Inlet Water)	Weight lbs (grams
180-12-6C	6.000 (152.4)	7.750 (196.9)	0.658 (16.7)	Single	13.406 (340.5)	0.038°C/W @ 1.0 GPM	2.270 (1029.67)
180-12-12C	12.000 (304.8)	7.750 (196.9)	0.658 (16.7)	Single	19.406 (492.9)	0.018°C/W @ 1.0 GPM	4.300 (1950.48)
180-12-24C	24.000 (609.6)	7.750 (196.9)	0.658 (16.7)	Single	31.406 (797.7)	0.009°C/W @ 1.0 GPM	8.600 (3900.96)
180-20-6C	6.000 (152.4)	5.500 (139.7)	0.690 (17.5)	Double	13.125 (333.4)	0.038°C/W @ 1.0 GPM	1.090 (494.42)

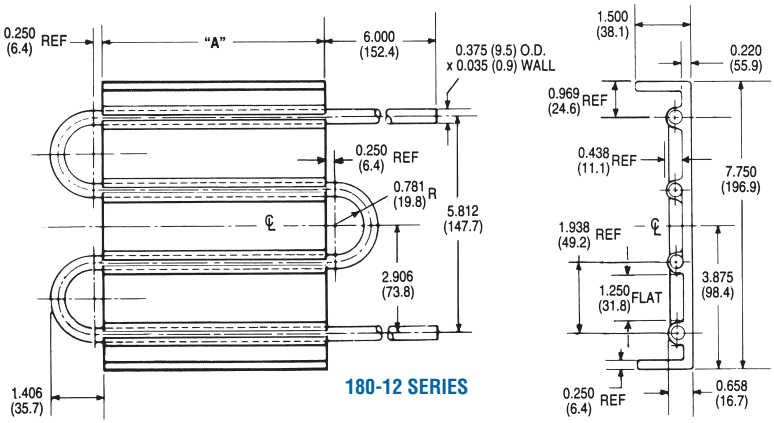
LOCAL THERMAL RESISTANCE PER DEVICE PLATE TO INLET WATER (°C/WATT)

℄ to ℄ Device Spacing Inches	Flow - GPM ½	1	2	3	4
1.0 (25.4)	0.76	0.67	0.62	0.59	0.57
2.0 (50.8)	0.58	0.49	0.43	0.40	0.39
3.0 (76.2)	0.42	0.34	0.30	0.28	0.27

PERFORMANCE CHARACTERISTICS

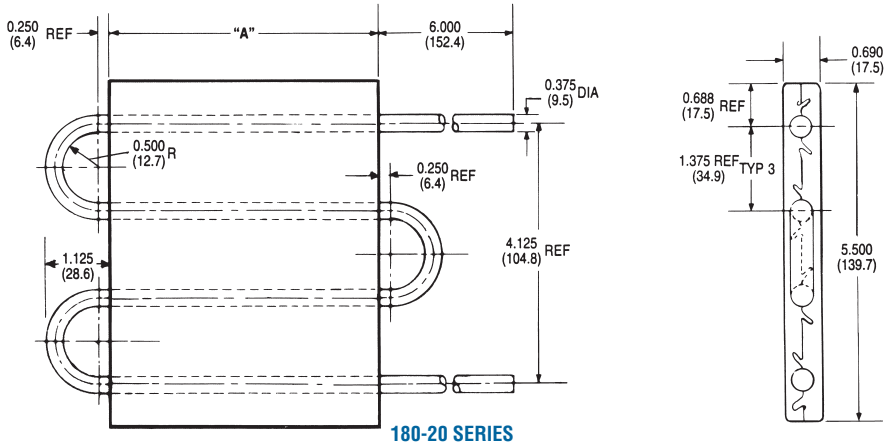


MECHANICAL DIMENSIONS



180-12 SERIES

Standard P/N	Length "A" in. (mm)
180-12-6C	6.000 (152.4)
180-12-12C	12.000 (304.8)
180-12-24C	24.000 (609.6)
180-20-6C	6.000 (152.4)



180-20 SERIES

Dimensions: in. (mm)