AAVID
THERMAL DIVISION OF BOYD CORPORATION

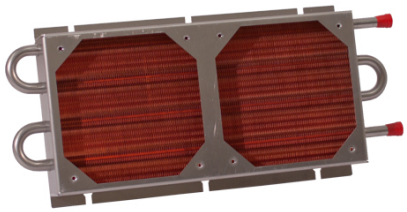
TECHNICAL DATASHEET

STAINLESS STEEL TUBE-FIN HEAT EXCHANGERS
ASPEN SERIES

PRODUCT DESCRIPTION

Stainless steel tube-fin heat exchangers are ideal for applications were deionized water or corrosive fluids are used and a high performing heat exchanger is required. When a slightly lower performance/size ratio is acceptable, the Aspen offers better value - 80% of the performance of the 4000 Series at approximately 50% of the cost. The Aspen also has lower air and liquid side pressure drops than the 4000 Series. The stainless steel Aspen heat exchanger combines low price and low pressure drop with excellent heat transfer and superior fluid integrity.

RoHS COMPLIANT



ASPEN SERIES TECHNICAL SPECIFICATIONS

	AS04-05G01	AS04-10G01	AS06-08G01	AS06-16G01	AS08-10G01	AS08-20G01
Fluid Path	Stainless Steel					
Fin Material	Copper					
Dry Weight kg (lb)	0.6 (1.4)	1.2 (2.7)	1.5 (3.3)	2.9 (6.3)	2.4 (5.3)	4.6 (10.1)
Fluid Volume ml (in^3)	45.9 (2.8)	75.4 (4.6)	91.8 (5.6)	162.2 (9.9)	145.8 (8.9)	262.2 (16.0)
Max Operating Temperature	200° (400°F)					
Pressure Tested	10.3 bar (150 psi)					
Fitting	SB: Straight Fitting					
Fan Plate	Included					
Fan Kit (Optional)	115V or 230V					
# of Fans in Kit	1	2	1	2	1	2

ASPEN SERIES FEATURES

- Heavy-walled, seamless stainless steel tubes are expanded into copper fin with an extruded full collar. The copper fin and the excellent metal-to-metal contact between the tube and the fin collar ensure optimum thermal performance.
- All the wetted surfaces are 316L stainless steel, so they are ideal for use with high purity and/or corrosive coolants such as deionized water.
- The welded stainless steel frame and fan plate offer durability and strength. Heat exchangers are 100% leak tested to 150 psi (10.3 bar). The Aspen has 0.020” (0.5 mm) wall tubing
- The integrated fan plate acts as a plenum to ensure uniform air-flow distribution through the core, thus maximizing performance. It also enables easy fan installation.
- With our Aspen Series, our proprietary manufacturing process expands the tubes into the copper fin without the use of oils and our liquid return design eliminates potential particle trapping sites, which can contaminate cooling fluid. Argon-purged welded joints further ensure cleanliness.

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TECHNICAL DATASHEET

STAINLESS STEEL TUBE-FIN HEAT EXCHANGERS
4000 SERIES

PRODUCT DESCRIPTION

The 4000 Series heat exchanger is our highest performing stainless steel tubed heat exchanger. It is ideal for applications where deionized water or corrosive fluids are used, and a high efficiency, compact unit is required. When high performance in a small envelope is required, the 4000 Series is the best option.

RoHS COMPLIANT

4000 SERIES TECHNICAL SPECIFICATIONS

	4105G1	4110G10	4120G10	4210G10	4220G10	4310G10	4320G10
Fluid Path	Stainless Steel						
Fin Material	Copper						
Dry Weight kg (lb)	0.7 (1.5)	0.9 (2.0)	1.6 (3.5)	2.3 (5.0)	3.9 (8.5)	3.9 (8.5)	6.4 (14.0)
Fluid Volume ml (in^3)	50 (3)	131 (8)	205 (12.5)	288 (17.5)	500 (30.5)	483 (29.5)	844 (51.5)
Max Operating Temperature	200° (400°F)						
Pressure Tested	10.3 bar (150 psi)						
Fitting	SB: Straight Fitting						
Fan Plate	Included						
Fan Kit (Optional)	115V or 230V						
# of Fans in Kit	1	1	2	1	2	1	2

4000 SERIES FEATURES

- Heavy-walled, seamless stainless steel tubes are expanded into copper fin with an extruded full collar. The copper fin and the excellent metal-to-metal contact between the tube and the fin collar ensure optimum thermal performance.
- All the wetted surfaces are 316L stainless steel, so they are ideal for use with high purity and/or corrosive coolants such as deionized water.
- The welded stainless steel frame and fan plate offer durability and strength. Heat exchangers are 100% leak tested to 150 psi (10.3 bar). The 4000 Series has 0.028" (0.7 mm) wall tubing
- The integrated fan plate acts as a plenum to ensure uniform air-flow distribution through the core, thus maximizing performance. It also enables easy fan installation.
- Argon-purged welded joints further ensure cleanliness.