



TECHNICAL DATASHEET

ALUMINUM FLAT TUBE OIL COOLERS ES SERIES

PRODUCT DESCRIPTION

Oil coolers ES series are designed for optimum cooling with poor heat transfer fluids such as oil and Ethylene Glycol/Water (EGW) mixture. Our oil coolers provide up to 2.5 times greater thermal performance per unit volume than competitive oil cooler models. The aluminum flat tube fluid channels in the oil coolers are vacuum brazed with aluminum fin and a frame for a rugged and lightweight construction. These oil coolers are ideal for liquid cooling x-ray tubes, aircraft engines, hydraulic fluid, high speed spindles, and more.



ES SERIES TECHNICAL SPECIFICATIONS

	ES0505G23	ES0510G23	ES0707G23	ES0714G23
Fluid Path	Aluminum			
Fin Material	Aluminum			
Dry Weight kg (lb)	0.91 (2.0)	1.30 (2.85)	2.85 (1.30)	2.51 (5.53)
Fluid Volume ml (in ³)	229 (14)	278 (17)	393 (24)	508 (31)
Max Operating Temperature	200° (400°F)			
Fittings	3/8 – 18 NPT			
Finish	Unpainted			
Fan Plate	Included			
Fan Kit (Optional)	115V or 230V			
# of Fans in Kit	1	2	1	2

ES SERIES FEATURES

- Boyd's unique aluminum flat tube technology, has multiple extended surface channels in each tube. These tubes provide maximum cooling by having a large surface area in contact with the fluid. Air-side fin geometry efficiently channels air across the fin surface to further boost heat transfer capability.
- The fluxless vacuum-brazed construction of the oil coolers results in a clean, rugged, and highly reliable heat exchanger with excellent thermal contact and mechanical strength.
- Our oil coolers' flat tube fluid channels and efficient header manifold result in a very low pressure drop so smaller, less expensive pumps can be used.
- The oil coolers' all-aluminum, vacuum-brazed construction is lightweight.

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