Comparative Analysis – Retrofit Radiator/TOC

Design Goals

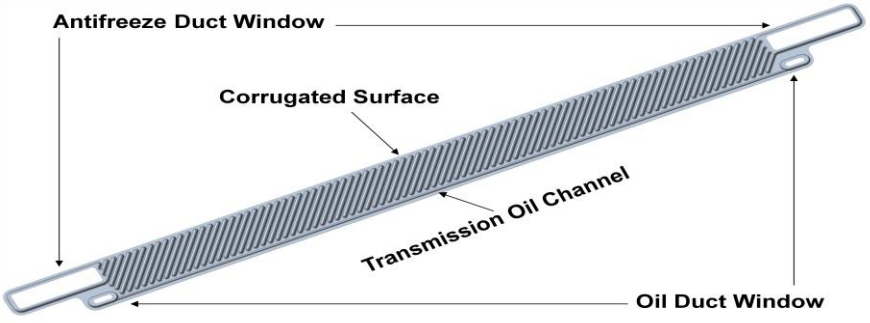
Same in/out locations
Same frontal dimensions
Same heat transfer

	Existing Radiator w/ Transmission Oil Cooler (TOC) *Tested @ Young Calibration, UK*	TPT Retrofit w/TOC*
	Aluminum – Tube & Fin	***Stainless Steel – Plate****
Unit Size	900mm x 600mm x 105mm	900mm x 600mm x **60**mm
Mass (Radiator) core[1], Alum	26.3 kg (57.9 lb)	**10.2 kg (22.5 lb)**
Mass (TOC) 10 plate, SS/CU	5.1 kg (11.2 lb)	(Integrated into core)*
Mass (Casing, ftgs, etc.), Alum	3.6 kg (7.9 lb)	**3.2 kg (7.1 lb)**
Total, kg	**35.0 kg (77.2 lb)**	**13.4 kg (29.5 lb)**
Size Reduction**		**43%**
Mass Reduction		**62%**

* Any power loss or increase is negligible less than 100 watts, all components stainless steel type 304.

[1] Aluminum core consists of (49-tubes, 1-row, 31-Fins/dM)

* Integrated TOC:



** Saved space can be used for additional heat transfer or other components (intercooler, engine oil cooler, a/c condenser, etc). TPT manufacturing process can accommodate any shape (circle, rectangle, oval, etc).

TPT combines proven industry design with innovative manufacturing processes.

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