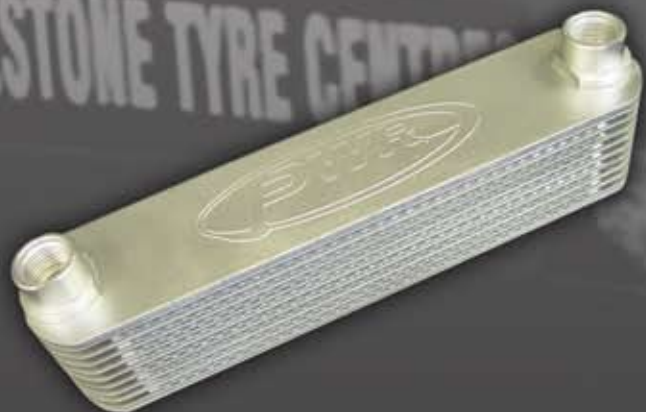




PRODUCT INFORMATION
TECHNICAL DATA SHEETS
NEW DEVELOPMENTS

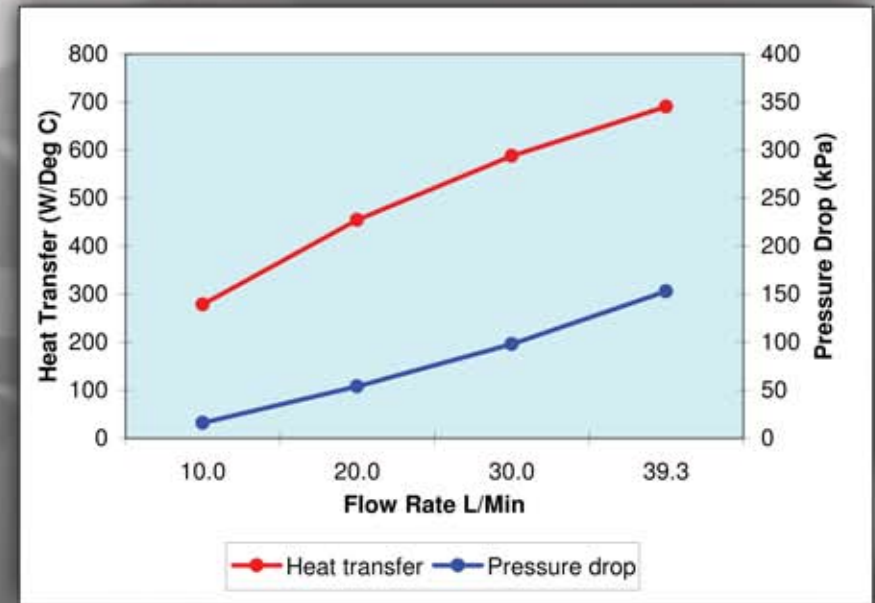
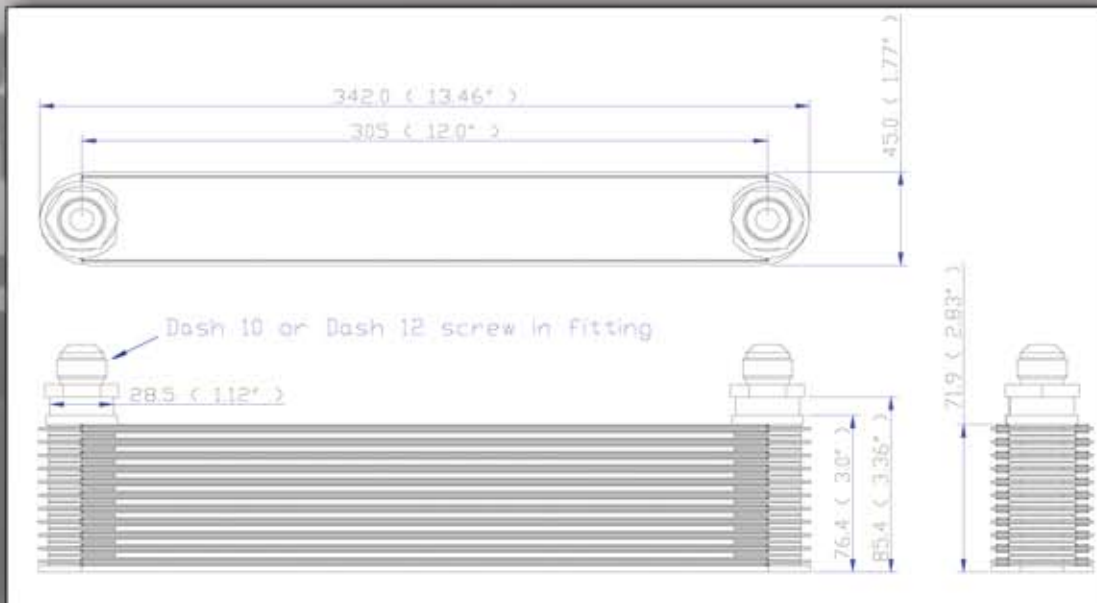
PWR INTANK WATER TO OIL ALUMINIUM OILCOOLERS





TECHNICAL DATA SHEETS

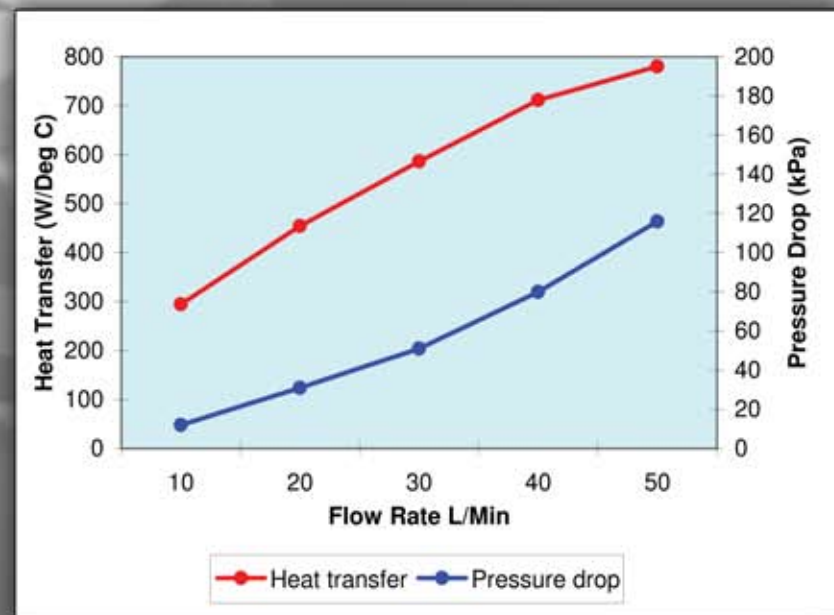
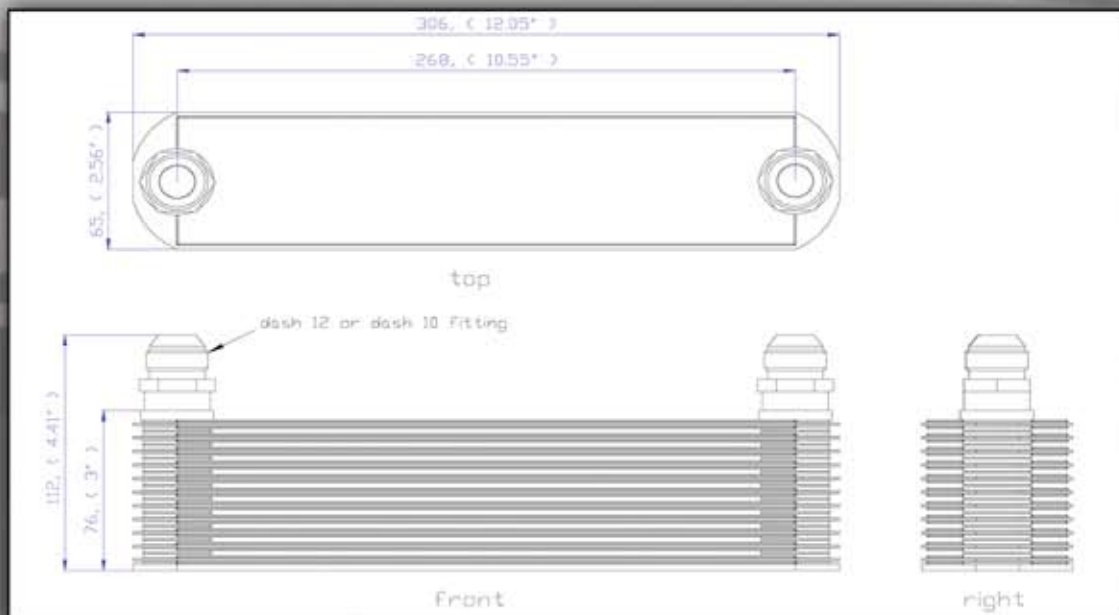
OIL						HEAT TRANSFER		WATER		
Flow Rate	Temp in	Temp out	Pressure in	Pressure out	P Drop	W	W/Deg C	Flow Rate	Temp in	Temp Out
L/min	Deg Celcius		Kpa					L/min	Deg Celcius	
10.0	88.0	69.9	74	58	16	5783	279	100	67.3	66.8
20.0	95.4	83.4	90	36	54	7606	455	100	78.7	78.4
30.0	91.8	83.5	108	10	98	7827	588	100	78.5	78.2
39.3	90.0	83.5	170	17	153	8153	691	100	78.2	77.9





TECHNICAL DATA SHEETS

OIL						HEAT TRANSFER		WATER		
Flow Rate	Temp in	Temp out	Pressure in	Pressure out	P Drop	W	W/Deg C	Flow Rate	Temp in	Temp Out
L/min	Deg Celcius		Kpa					L/min	Deg Celcius	
10	93.1	77.2	76	64	12	5029	295	100	75.8	75.3
20	96.5	85.1	100	69	31	7292	455	100	80.8	80.5
30	92.7	84.7	95	44	51	7638	587	100	80	79.9
40	90.4	83.7	99	19	80	8549	712	100	78.3	77.8
50	91.1	85.5	144	28	116	8748	781	100	79.8	79.4



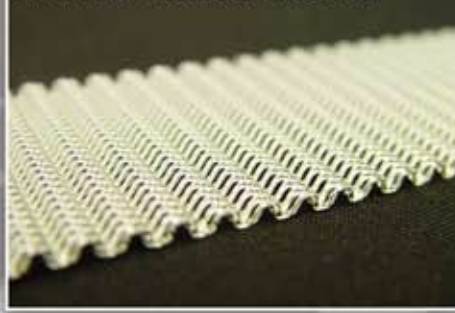


PWR INTANK WATER/OIL ALUMINIUM OILCOOLERS

PWR WATERSIDE FIN



PWR FINE TURBULATING FIN



FINE AND COARSE INTERNAL TURBULATING FIN IS AVAILABLE TO PROVIDE THE BEST HEAT TRANSFER VERSUS PRESSURE DROP FOR ANY APPLICATION.

THE PWR IN-TANK ALUMINIUM OIL COOLER OFFERS THE LATEST IN COOLING TECHNOLOGIES, THROUGH A PRODUCT WHICH HAS HIGH HEAT TRANSFER AND LOW PRESSURE DROP, RESULTING IN LOWER ENGINE OR TRANSMISSION TEMPERATURES AND BETTER RELIABILITY.

THESE COOLERS HAVE BEEN DESIGNED AND MANUFACTURED IN-HOUSE AT PWR PERFORMANCE PRODUCTS BY THERMODYNAMICS ENGINEERS USING THE LATEST COMPUTATIONAL THERMODYNAMIC SOFTWARE. THE COOLERS ARE MADE FROM A FULL ALUMINIUM CONSTRUCTION WITH A UNIQUE INTERNAL FIN DESIGN WHICH TUBULATES OIL FLOW FOR INCREASED SURFACE AREA CONTACT AIDING BETTER HEAT DISPERSION, STRENGTH AND DISTRIBUTION OF OIL FLOW.. THIS IN COMBINATION WITH THE EXTERNAL WATERSIDE FIN WHICH IS DESIGNED TO INCREASE EXTERNAL SURFACE AREA AND MAXIMISE HEAT TRANSFER ENSURES THE PWR INTANK OIL COOLERS ARE THE BENCHMARK IN OILCOOLING TECHNOLOGY.

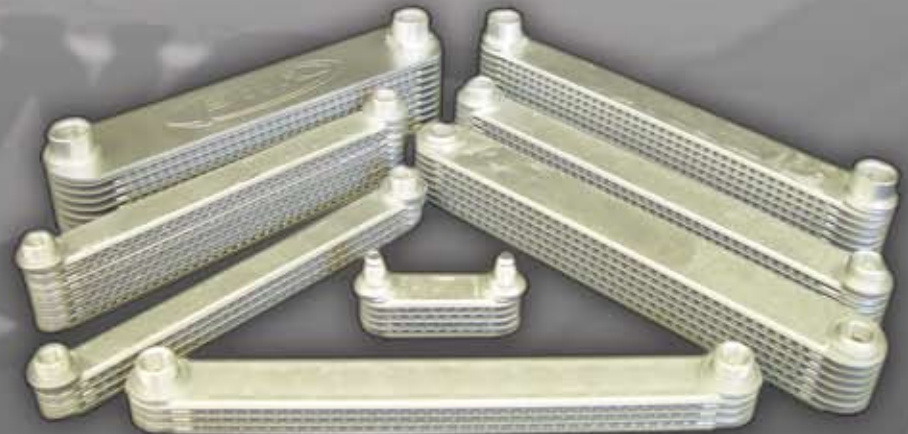
ALL COOLERS ARE TESTED TO 300PSI AND ARE 100% AUSTRALIAN MADE AT PWR PERFORMANCE PRODUCTS. OUR RAPID PROTOTYPING SERVICE AND FLEXIBLE MANUFACTURING FACILITY WILL ENSURE THAT YOUR SPECIFIC COOLING NEEDS CAN BE ACCOMODATED IF YOUR REQUIREMENTS ARE OUTSIDE OF THE STANDARD RANGE OF COOLERS AVAILABLE. FOR MORE INFORMATION ON OUR STANDARD RANGE OF COOLERS PLEASE REFER TO THE FOLLOWING TECHNICAL DATA SHEETS.

MALE AND FEMALE SCREW FITTINGS IN VARIOUS CONFIGURATIONS ARE AVAILABLE. CUSTOM FITTINGS CAN BE ACCOMODATED IN BATCH VOLUME QUANTITIES.



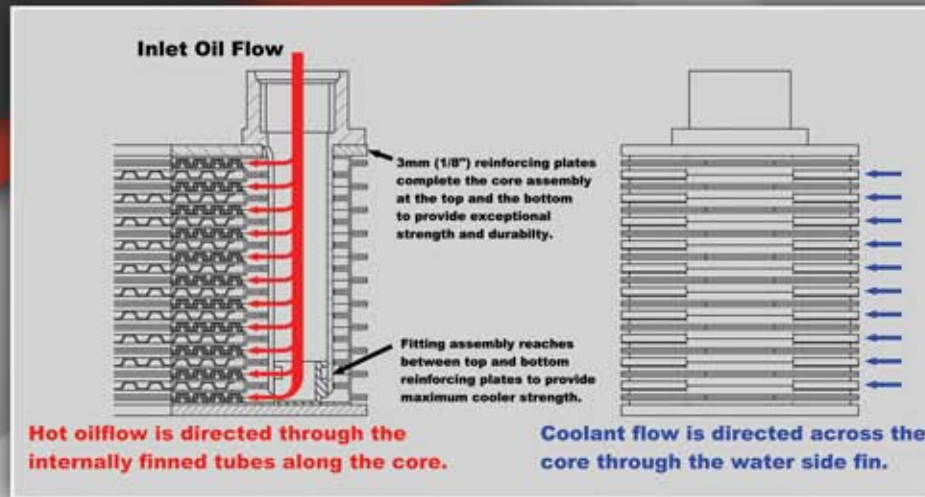
THE PWR ADAVANTAGE

- HIGH HEAT TRANSFER DESIGN
- LOW PRESSURE DROP DUE DESIGN CONFIGURATION
- 100% AUSTRALIAN MADE
- HIGH CORROSION RESISTANCE
- RACE PROVEN PERFORMANCE
- STATE OF THE ART CONTROLLED ATMOSPHERE BRAZING PROCESS
- ALL ALUMINIUM CONSTRUCTION
- COMPUTATIONAL THERMODYNAMIC DESIGN CAPABILITIES
- TESTED AT 300PSI
- RAPID PROTOTYPING
- FULL TIME R&D DEPARTMENT
- FLEXIBLE MANUFACTURING FACILITY OFFERING CUSTOM DESIGNS SPECIFIC TO YOUR NEEDS





NEW DEVELOPMENTS PWR INTANK OILCOOLERS



PWR INTANK ENGINE OILCOOLERS ARE NOW STRONGER AND MORE DURABLE THAN EVER. 65MM (2.56") WIDE AND 45MM (1.77") WIDE ALUMINIUM COOLERS ARE NOW FULLY BRAZED WITH 3MM (1/8") TOP AND BOTTOM REINFORCING PLATES IN COMBINATION WITH A UNIQUE FITTING ASSEMBLY THAT CONNECTS THE TOP REINFORCING PLATE TO THE BOTTOM REINFORCING PLATE TO PROVIDE UNMATCHED COOLER STRENGTH AND DURABILITY IN AN ALUMINIUM OILCOOLER.

THESE RECENT DEVELOPMENTS HAVE ENSURED THAT PWR CAN NOW OFFER THE MOST SUPERIOR ENGINE OILCOOLER FOR YOUR APPLICATION THAN ANY ALTERNATIVE ON THE MARKET.



PWR ENGINE OIL REMOTE HEAT EXCHANGER

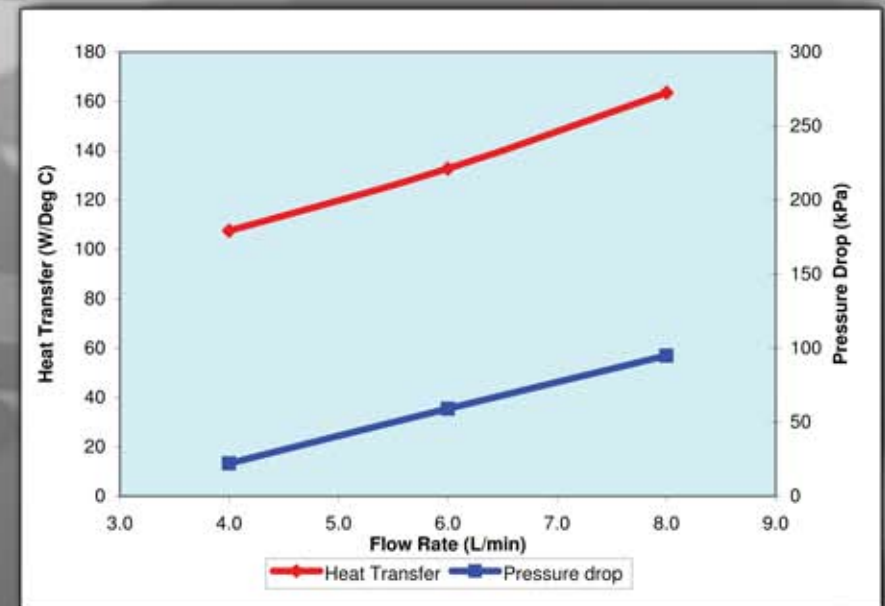
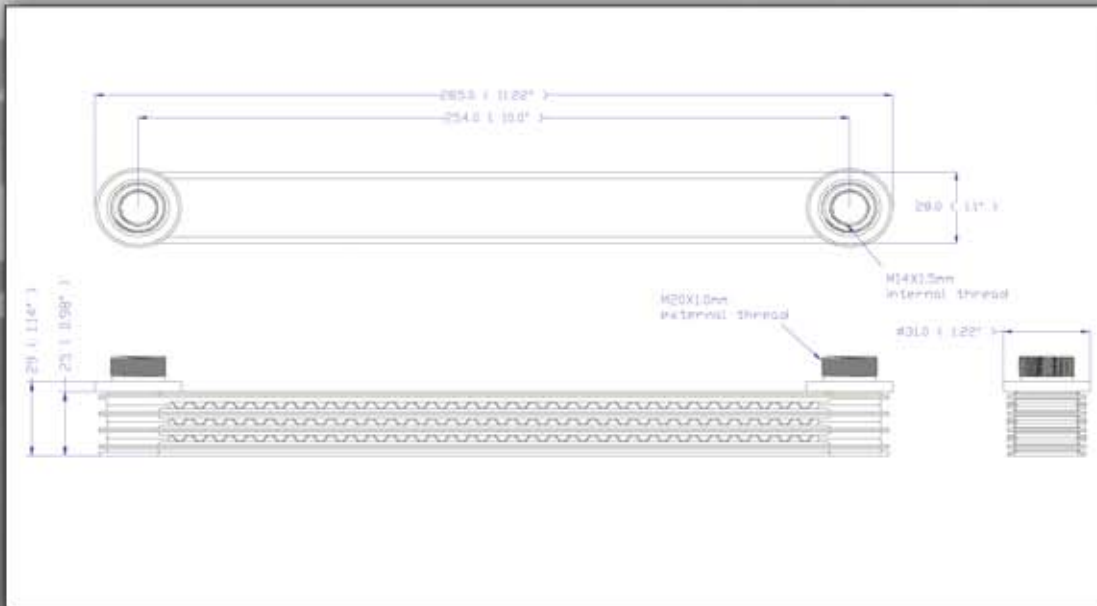
PWR NOW OFFERS ITS RANGE OF INTANK ENGINE OILCOOLERS IN A UNIQUE ALUMINIUM CHAMBER TO PROMOTE THE VERY BEST FLOW AND HEAT TRANSFER BETWEEN THE OIL AND THE COOLING FLUID WITH MINIMAL PRESSURE DROP FOR BOTH FLUIDS.

THE END RESULT IS THE MOST EFFICIENT OILCOOLING SOLUTION FOR YOUR APPLICATION WITH THE CONVENIENCE OF BEING ABLE TO MOUNT THE OILCOOLING UNIT REMOTELY. WHEN USED IN CONJUNCTION WITH OUR PWR RACE PROVEN RADIATORS YOU WILL HAVE A WORLD CLASS SOLUTION FOR YOUR THERMAL MANAGEMENT PROBLEM.



TECHNICAL DATA SHEETS

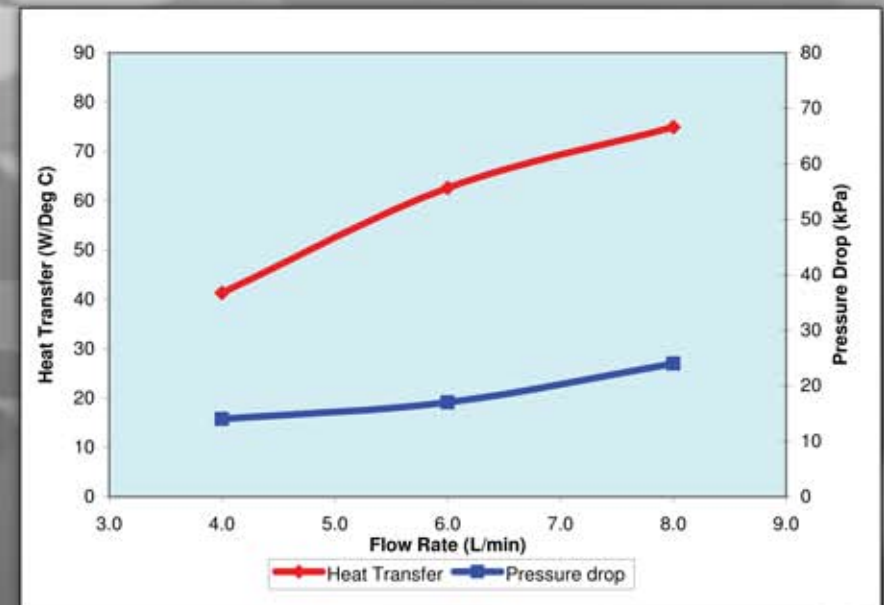
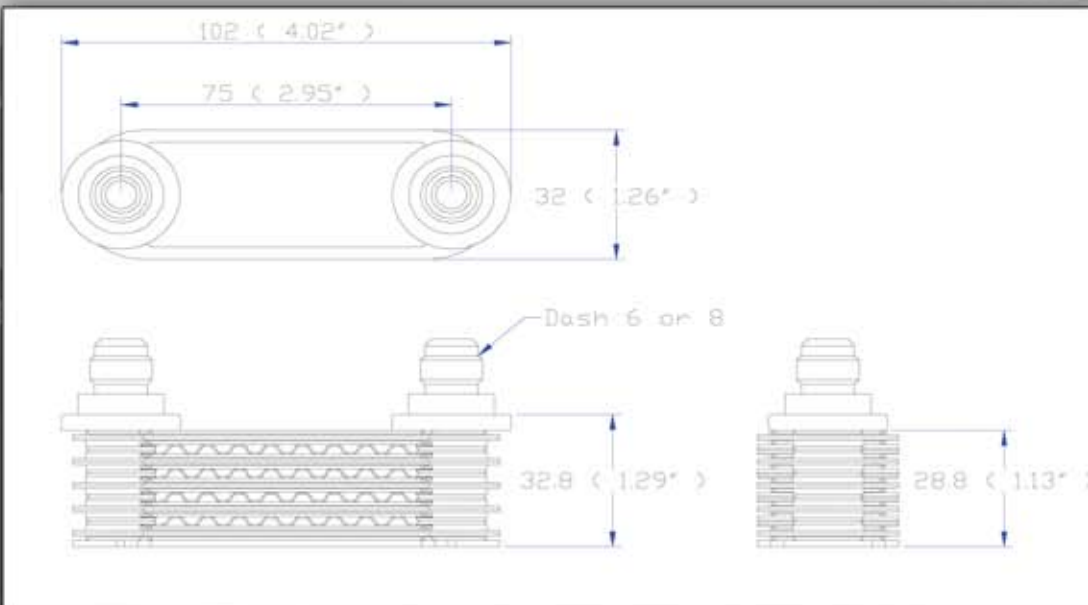
OIL						HEAT TRANSFER		WATER		
Flow Rate	Temp in	Temp out	Pressure in	Pressure out	P Drop	W	W/Deg C	Flow Rate	Temp in	Temp Out
L/min	Deg Celcius		Kpa					L/min	Deg Celcius	
4.0	107.0	83.2	59	37	22	2992	108	120	79.2	78.9
6.0	112.4	89.1	53	-6	59	4394	133	120	79.3	79.2
8.0	107.6	89.2	89	-6	95	4627	163	120	79.3	79





TECHNICAL DATA SHEETS

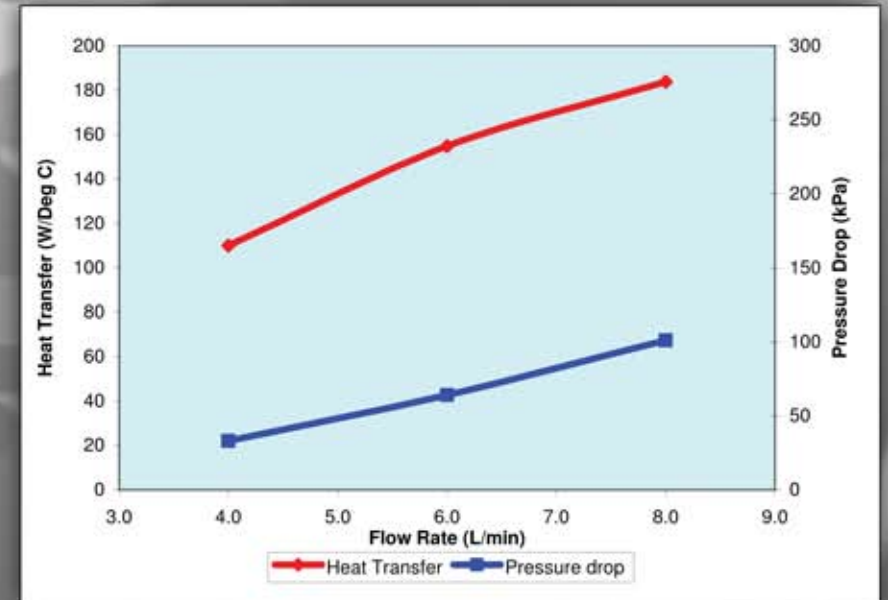
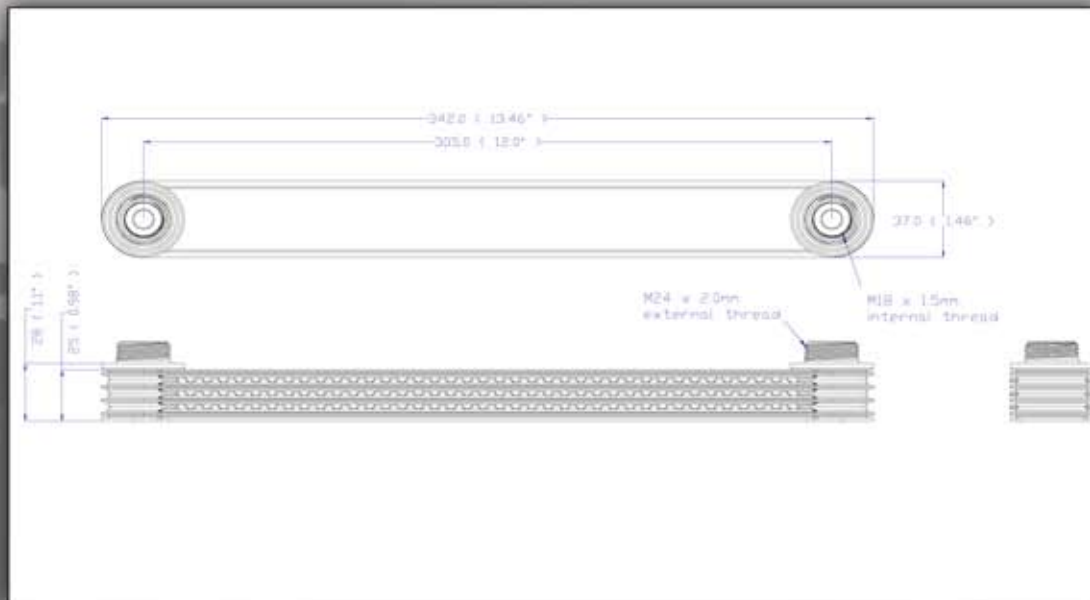
OIL						HEAT TRANSFER		WATER		
Flow Rate	Temp in	Temp out	Pressure in	Pressure out	P Drop	W	W/Deg C	Flow Rate	Temp in	Temp Out
L/min	Deg Celcius		Kpa					L/min	Deg Celcius	
4.0	101.2	94.0	150	136	14	905	41	120	79.3	78.8
6.0	104.1	95.9	106	89	17	1547	63	120	79.4	79
8.0	103.8	96.5	152	128	24	1836	75	120	79.3	79





TECHNICAL DATA SHEETS

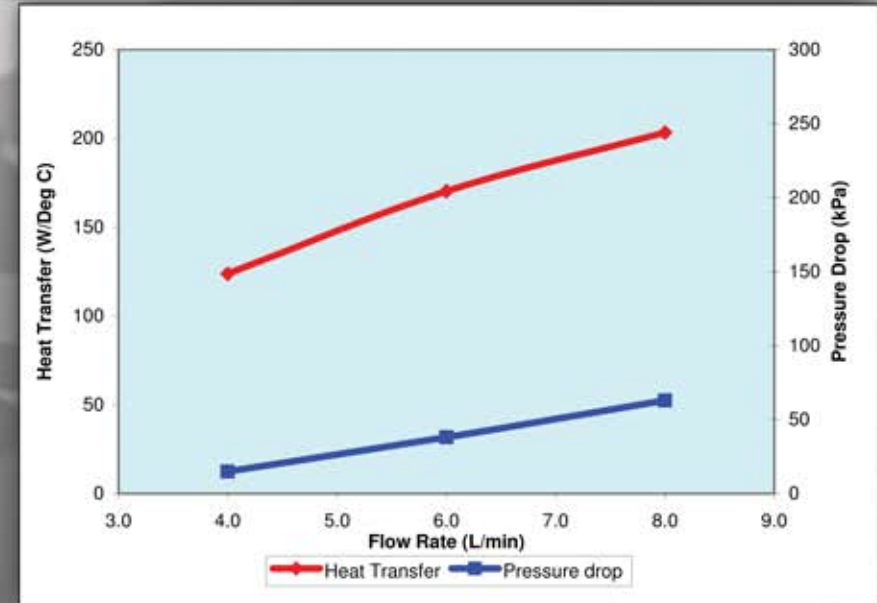
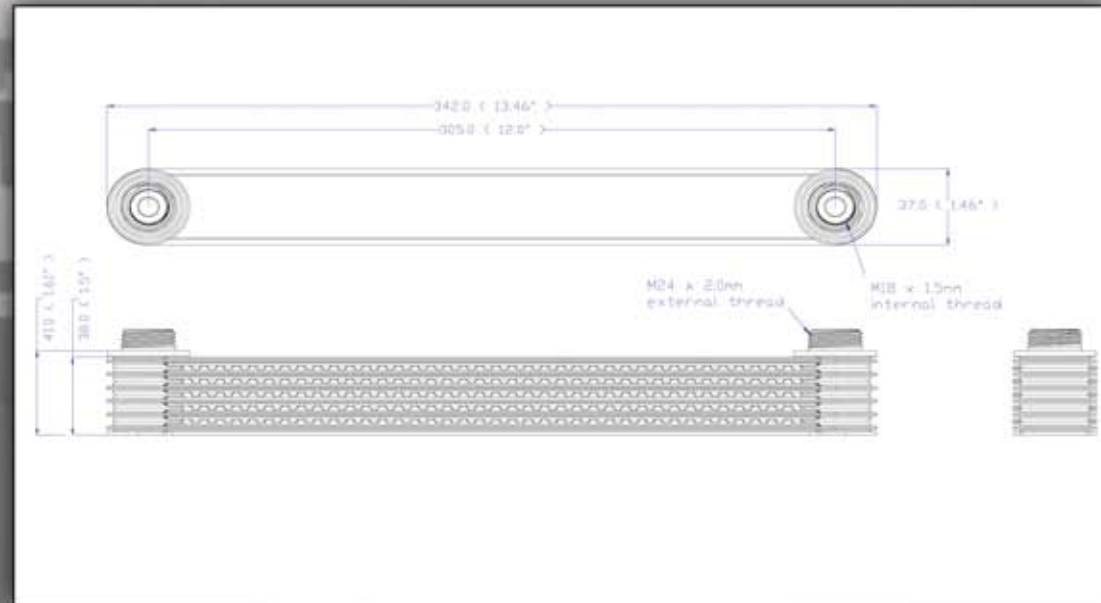
OIL						HEAT TRANSFER		WATER		
Flow Rate	Temp in	Temp out	Pressure in	Pressure out	P Drop	W	W/Deg C	Flow Rate	Temp in	Temp Out
L/min	Deg Celcius		Kpa					L/min	Deg Celcius	
4.0	111.6	82.3	56	23	33	3684	110	120	78.1	77
6.0	113.5	86.0	58	-6	64	5187	155	120	80	77.5
8.0	108.5	88.9	95	-6	101	4929	184	120	81.7	79





TECHNICAL DATA SHEETS

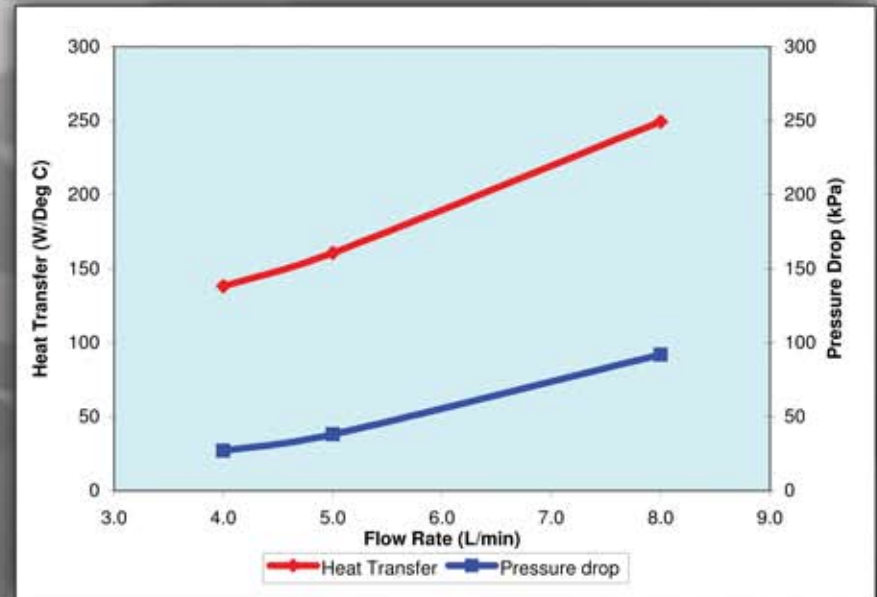
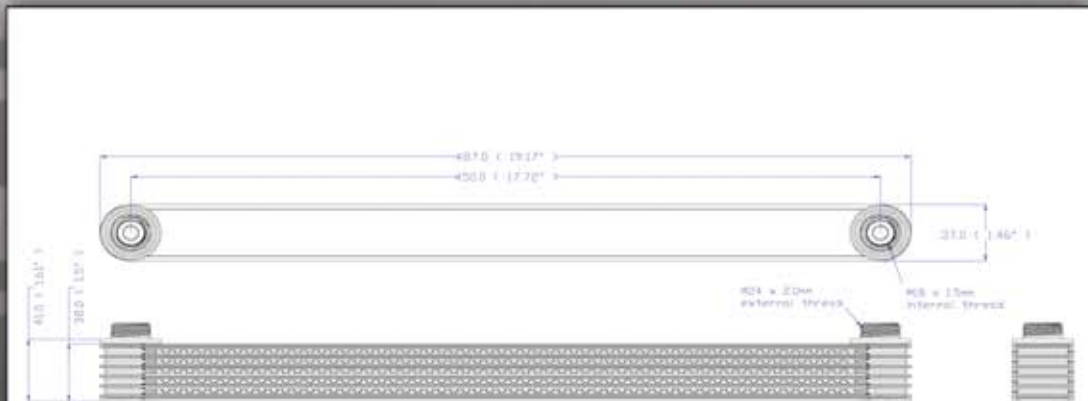
OIL						HEAT TRANSFER		WATER		
Flow Rate	Temp in	Temp out	Pressure in	Pressure out	P Drop	W	W/Deg C	Flow Rate	Temp in	Temp Out
L/min	Deg Celcius		Kpa					L/min	Deg Celcius	
4.0	104.8	78.7	62	47	15	3282	124	120	78.3	77
6.0	109.9	82.9	63	25	38	5092	170	120	80	76
8.0	106.5	85.8	57	-6	63	5205	203	120	80.9	80





TECHNICAL DATA SHEETS

OIL						HEAT TRANSFER		WATER		
Flow Rate	Temp in	Temp out	Pressure in	Pressure out	P Drop	W	W/Deg C	Flow Rate	Temp in	Temp Out
L/min	Deg Celcius		Kpa					L/min	Deg Celcius	
4.0	100.3	74.7	65	38	27	3219	138	120	77	76.4
5.0	110.4	79.2	63	25	38	4904	161	120	79.9	79.6
8.0	104.5	80.4	143	51	92	6060	249	120	80.2	80.1





TECHNICAL DATA SHEETS

OIL						HEAT TRANSFER		WATER		
Flow Rate	Temp in	Temp out	Pressure in	Pressure out	P Drop	W	W/Deg C	Flow Rate	Temp in	Temp Out
L/min	Deg Celcius		Kpa					L/min	Deg Celcius	
4.0	108.3	82.4	81	69	12	3256	121	120	81.3	81.1
6.0	103.8	81.9	93	78	15	4130	177	120	80.4	80.1
8.0	103.7	82.5	102	74	28	5331	228	120	80.3	80.1
12.0	101.7	86.9	123	24	99	5583	285	120	82.1	82

