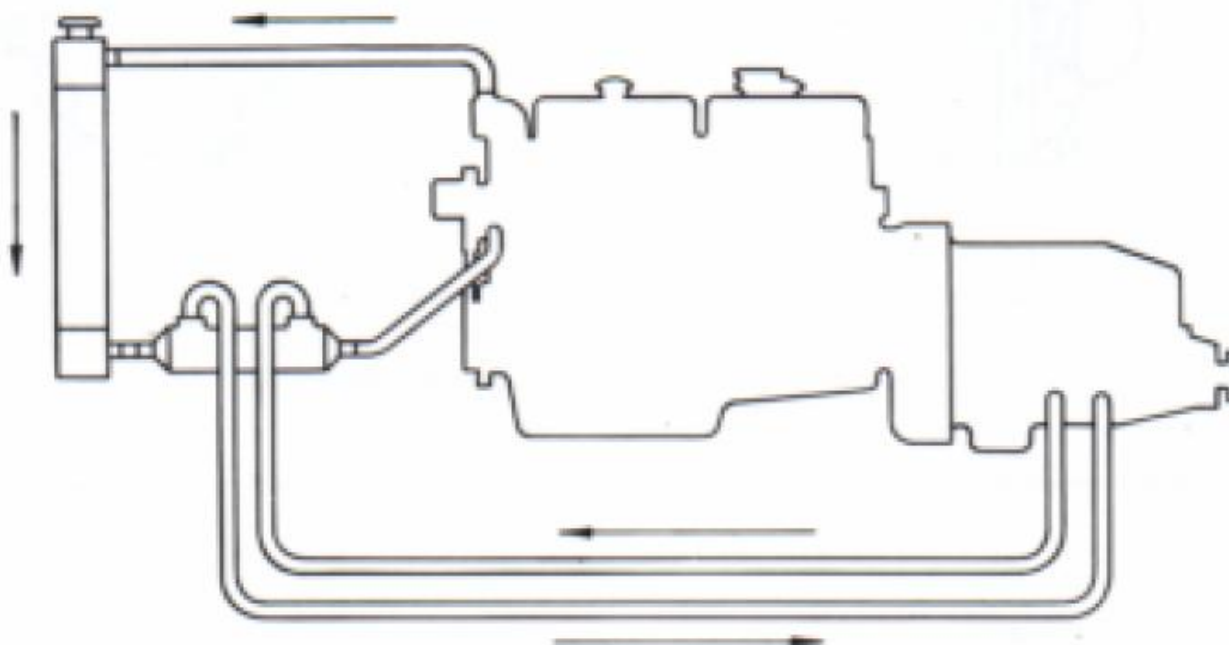


Engine & Transmission Oil Cooler

These Oil Coolers are equally suitable for cooling torque converter, automatic transmission and engine oils. Being water cooled they have the advantage of freedom from accidental damage and also encourage quicker warming up of the oil, a feature which is particularly valuable in cold climates. The tube stack is fully floating so that thermal stresses are minimised and it can easily be removed should cleaning be necessary.

The cooler should be fitted into the engine water circuit between the bottom tank of the radiator and the water inlet connection on the engine as illustrated as below, the radii of water pipe bends should be as large as possible to reduce the pressure drop. Also indicated as below are the approximate capabilities of the various coolers for torque converter applications. This information is only intended as a general guide as the factors affecting the choice of oil cooler are complex. In the case of engine oil applications we are not able to give any general recommendations, but proposals can be submitted on receipt of details of the particular engine.



Installation of an oil cooler in an engine water circuit.

Design Parameter

Maximum working pressure on oil side: 25 bar

Maximum working pressure on water side: 3 bar, 10 bar, 15 bar

Design temperature: 150°C

We produce customized applications on different working pressure and temperature.

Performance data of engine & transmission oil coolers

Typical examples of oil coolers fitted to torque converter transmissions with an oil inlet temperature of 110°C and a water inlet temperature of 80°C.

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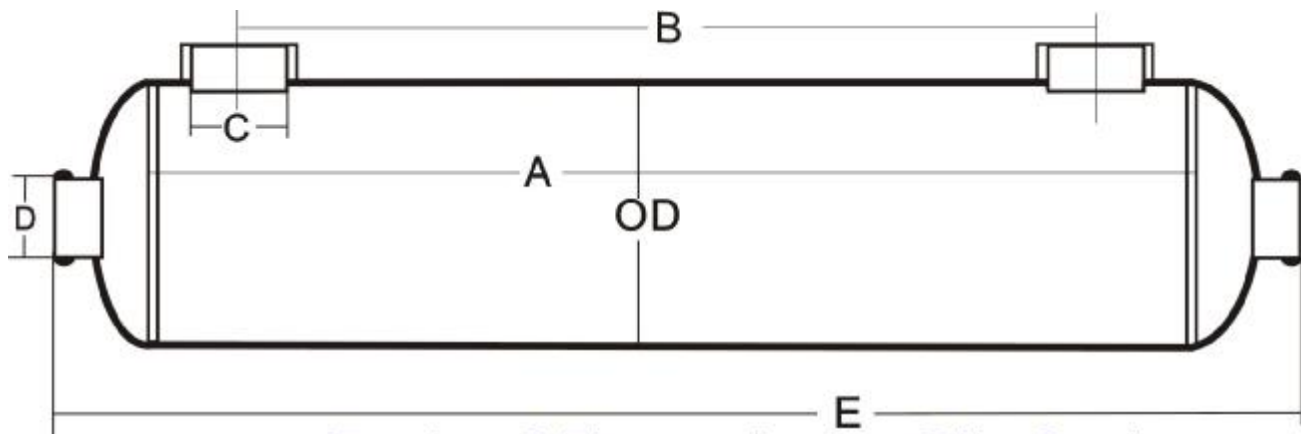
Cooler Type	Maximum oil flow	Maximum water flow	Suitable for torque converter transmitting	Internal oil volume	Internal water volume
	Liter/min	Liter/min	kW	Liter	Liter
EC 80-E	30	200	45	0.26	0.31
EC100-E	60	200	60	0.49	0.44
EC120-E	60	200	75	0.74	0.57
EC140-E	60	200	90	0.97	0.71
EC160-E	60	200	105	1.30	0.91
FC100-E	100	300	90	1.10	0.84
FC120-E	100	300	105	1.50	1.06
FC140-E	100	300	120	2.00	1.35
FC160-E	100	300	135	2.60	1.68
FG100-E	150	400	120	2.40	1.56
FG120-E	150	400	140	3.00	1.96
FG140-E	150	400	170	3.90	2.42
FG160-E	150	400	200	5.00	2.97
GL180-E	220	700	180	4.80	3.80
GL240-E	220	700	240	6.30	4.60
GL320-E	220	700	300	8.00	5.50
GL400-E	220	700	360	10.00	6.60
GK250-E	350	1000	360	9.00	7.50
GK320-E	350	1000	450	11.60	9.00
GK400-E	350	1000	540	14.60	10.60
GK480-E	350	1000	630	17.40	12.30
JK250-E	550	1600	520	12.50	10.40
JK320-E	550	1600	640	16.10	12.50
JK400-E	550	1600	780	20.30	14.70
JK480-E	550	1600	900	24.20	17.10

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Water port connector selection table

Type	In line (axially)	Right angled
EC	32mm 50mm	32mm 40mm 50mm
FC	40mm 50mm 2"	40mm 50mm 65mm
FG	40mm 2 1/2"	50mm 65mm
GL	3"	70

Specification and dimension of oil coolers



Engine & Transmission Oil Cooler

Cooler Type	A(mm)	B(mm)	C(BSP)	D(mm)	E(mm)	Note
EC 80-E	100	70	1/2"	40	200	OD89mm,bolt
EC100-E	196	156	3/4"	40	296	M8 X 100 X76mm
EC120-E	286	246	3/4"	40	386	
EC140-E	396	356	3/4"	40	496	
EC160-E	536	496	3/4"	40	636	
FC100-E	286	242	1"	50	386	OD108mm,bolt
FC120-E	396	352	1"	50	496	M8 X 100X 76mm
FC140-E	536	492	1"	50	636	
FC160-E	696	652	1"	50	796	
FG100-E	396	342	1 1/4"	50	536	OD133mm,bolt
FG120-E	536	482	1 1/4"	50	676	M8 X 100 X 76mm
FG140-E	696	642	1 1/4"	50	836	
FG160-E	896	842	1 1/4"	50	1036	
GL180-E	536	472	1 1/2"	65	676	OD159mm,bolt
GL240-E	696	632	1 1/2"	65	836	M12X100X150mm
GL320-E	896	832	1 1/2"	65	1036	

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GL400-E	1116	1052	1 1/2"	65	1256	
Cooler Type	A(mm)	B(mm)	C(BSP)	D(mm)	E(mm)	Note
GK250-E	646	570	2"	100	796	OD200mm,bolt M12X100X150mm
GK320-E	836	760	2"	100	986	
GK400-E	1056	980	2"	100	1206	
GK480-E	1276	1200	2"	100	1426	
JK250-E	646	548	2 1/2"	120	786	OD230mm,bolt M12X100X150mm
JK320-E	836	738	2 1/2"	120	976	
JK400-E	1056	958	2 1/2"	120	1196	Flange 120
JK480-E	1276	1178	2 1/2"	120	1416	