

# Serck Oil Coolers

Serck Cooling oil coolers have earned a reputation for being a lightweight highly efficient heat transfer product combined with durability and reliability. Oil coolers are manufactured utilising aluminium alloy components, brazed into one piece assemblies. The brazing process combined with appropriate design features ensures a product capable of withstanding tests up to 350 psi, (2400kPa). Oil coolers are available in two basic designs.

## INTERCALARY STYLE

This design features a common depth of 50mm and two fixed matrix lengths; 115mm and 235mm. The height is variable dependent upon the number of rows of tubes. The tubes incorporate internal turbulators to maximise heat transfer performance and to enhance resistance to internal pressures.

## TUBE AND FIN STYLE

This design features a common depth of 50mm and two fixed matrix lengths; 115mm and 235mm. The height is variable dependent upon the number of rows of tubes. The tubes incorporate internal turbulators to maximise heat transfer performance and to enhance resistance to internal pressures. This design features a common depth of 50mm and two fixed matrix lengths; 115mm and 235mm. The height is variable dependent upon the number of rows of tubes. The tubes incorporate internal turbulators to maximise heat transfer performance and to enhance resistance to internal pressures.

## QUALITY CONTROL

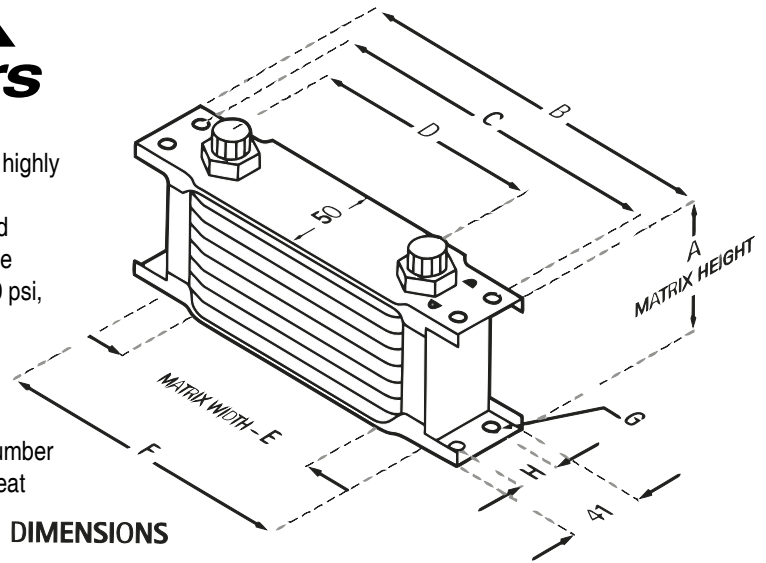
All coolers are designed and manufactured utilising the latest CAD/CAM and quality control procedures associated with a world class supplier. Life cycle testing can be carried out to customers' specifications or to established criteria, an example of which is shown below.

## INTERCALARY TESTING

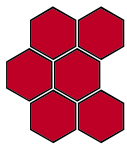
All coolers are tested at 170 psi (1172 kPa=1.7 bar) to check for integrity after brazing.

## CONNECTORS

A wide range of connector options, including the use of standard adaptors, can enable a rationalisation of cooler stocks to be achieved.



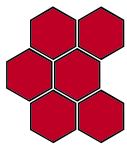
235 Matrix Length					
FITTINGS		DIMENSIONS			
Male 3/8" BSP		A (mm)	Dry Weight (kg)	Oil Capacity (Litres)	Matrix Face Area (M2)
Row's	Part #				
7	ARO9804	53	0.53	0.14	0.012
10	ARO9808	77	0.71	0.20	0.018
13	ARO9813	100	0.88	0.26	0.024
16	ARO1696	124	1.06	0.32	0.029
19	ARO1117	147	1.24	0.38	0.035
25	ARO2160	194	1.60	0.50	0.046
34		265	2.14	0.68	0.062
44		344	2.73	0.88	0.081
50		390	3.09	1.00	0.092
Male 1/2" BSP		A (mm)	Dry Weight (kg)	Oil Capacity (Litres)	Matrix Face Area (M2)
Row's	Part #				
7	ARO9803	53	0.53	0.14	0.012
10	ARO9807	77	0.71	0.20	0.018
13	ARO0221	100	0.88	0.26	0.024
16	ARO9995	124	1.06	0.32	0.029
19	ARO9888	147	1.24	0.38	0.035
25	ARO4024	194	1.60	0.50	0.046
34	ARO1357	265	2.14	0.68	0.062
44	ARO1738	344	2.73	0.88	0.081
50					



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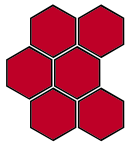
Male 5/8" BSP		A (mm)	Dry Weight (kg)	Oil Capacity (Litres)	Matrix Face Area (M2)
Row's	Part #				
7	ARO1893	53	0.53	0.14	0.012
10	ARO9391	77	0.71	0.20	0.018
13	ARO9390	100	0.88	0.26	0.024
16	ARO9352	124	1.06	0.32	0.029
19	ARO9937	147	1.24	0.38	0.035
25	ARO9104	194	1.60	0.50	0.046
34	ARO9444	265	2.14	0.68	0.062
44	ARO9448	344	2.73	0.88	0.081
50		390	3.09	1.00	0.092
Male 3/4" BSP		A (mm)	Dry Weight (kg)	Oil Capacity (Litres)	Matrix Face Area (M2)
Row's	Part #				
7	ARO0314	53	0.53	0.14	0.012
10	ARO0090	77	0.71	0.20	0.018
13	ARO9893	100	0.88	0.26	0.024
16	ARO9996	124	1.06	0.32	0.029
19	ARO9827	147	1.24	0.38	0.035
25	ARO9102	194	1.60	0.50	0.046
34	ARO9445	265	2.14	0.68	0.062
44	ARO9449	344	2.73	0.88	0.081
50	ARO1497	390	3.09	1.00	0.092
Male 1" BSP		A (mm)	Dry Weight (kg)	Oil Capacity (Litres)	Matrix Face Area (M2)
Row's	Part #				
7		53	0.53	0.14	0.012
10	ARO2042	77	0.71	0.20	0.018
13		100	0.88	0.26	0.024
16	ARO1495	124	1.06	0.32	0.029
19	ARO9892	147	1.24	0.38	0.035
25	ARO9105	194	1.60	0.50	0.046
34	ARO9447	265	2.14	0.68	0.062
44	ARO9451	344	2.73	0.88	0.081
50		390	3.09	1.00	0.092
Male -6 AN		A (mm)	Dry Weight (kg)	Oil Capacity (Litres)	Matrix Face Area (M2)
Row's	Part #				
7	ARO1512	53	0.53	0.14	0.012
10	ARO1511	77	0.71	0.20	0.018
13	ARO1549	100	0.88	0.26	0.024
16	ARO1707	124	1.06	0.32	0.029
19	ARO1919	147	1.24	0.38	0.035
25	ARO1742	194	1.60	0.50	0.046
34	ARO2152	265	2.14	0.68	0.062
44		344	2.73	0.88	0.081
50		390	3.09	1.00	0.092
Male -8 AN		A (mm)	Dry Weight (kg)	Oil Capacity (Litres)	Matrix Face Area (M2)
Row's	Part #				
7	ARO1215	53	0.53	0.14	0.012
10	ARO9108	77	0.71	0.20	0.018
13	ARO1516	100	0.88	0.26	0.024
16	ARO1526	124	1.06	0.32	0.029
19	ARO1503	147	1.24	0.38	0.035
25	ARO1524	194	1.60	0.50	0.046
34	ARO1521	265	2.14	0.68	0.062
44	ARO1926	344	2.73	0.88	0.081
50	ARO1979	390	3.09	1.00	0.092



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Male -10 AN		A (mm)	Dry Weight (kg)	Oil Capacity (Litres)	Matrix Face Area (M2)
Row's	Part #				
7	ARO1000	53	0.53	0.14	0.012
10	ARO1525	77	0.71	0.20	0.018
13	ARO1217	100	0.88	0.26	0.024
16	ARO9109	124	1.06	0.32	0.029
19	ARO9110	147	1.24	0.38	0.035
25	ARO1519	194	1.60	0.50	0.046
34	ARO1015	265	2.14	0.68	0.062
44	ARO1020	344	2.73	0.88	0.081
50	ARO1932	390	3.09	1.00	0.092
Male -12 AN		A (mm)	Dry Weight (kg)	Oil Capacity (Litres)	Matrix Face Area (M2)
Row's	Part #				
7	ARO2155	53	0.53	0.14	0.012
10	ARO1505	77	0.71	0.20	0.018
13	ARO1518	100	0.88	0.26	0.024
16	ARO1507	124	1.06	0.32	0.029
19	ARO1515	147	1.24	0.38	0.035
25	ARO9359	194	1.60	0.50	0.046
34	ARO1240	265	2.14	0.68	0.062
44	ARO1508	344	2.73	0.88	0.081
50	ARO1492	390	3.09	1.00	0.092
Male -16 AN		A (mm)	Dry Weight (kg)	Oil Capacity (Litres)	Matrix Face Area (M2)
Row's	Part #				
7		53	0.53	0.14	0.012
10	ARO1510	77	0.71	0.20	0.018
13	ARO1491	100	0.88	0.26	0.024
16	ARO1514	124	1.06	0.32	0.029
19	ARO1269	147	1.24	0.38	0.035
25	ARO1270	194	1.60	0.50	0.046
34	ARO1227	265	2.14	0.68	0.062
44	ARO1228	344	2.73	0.88	0.081
50	ARO1493	390	3.09	1.00	0.092
Female M14		A (mm)	Dry Weight (kg)	Oil Capacity (Litres)	Matrix Face Area (M2)
Row's	Part #				
7		53	0.53	0.14	0.012
10		77	0.71	0.20	0.018
13		100	0.88	0.26	0.024
16		124	1.06	0.32	0.029
19		147	1.24	0.38	0.035
25		194	1.60	0.50	0.046
34		265	2.14	0.68	0.062
44		344	2.73	0.88	0.081
50		390	3.09	1.00	0.092
Female M18		A (mm)	Dry Weight (kg)	Oil Capacity (Litres)	Matrix Face Area (M2)
Row's	Part #				
7	ARO1898	53	0.53	0.14	0.012
10	ARO1631	77	0.71	0.20	0.018
13	ARO1615	100	0.88	0.26	0.024
16	ARO1632	124	1.06	0.32	0.029
19	ARO1643	147	1.24	0.38	0.035
25	ARO1670	194	1.60	0.50	0.046
34	ARO2033	265	2.14	0.68	0.062
44	ARO2034	344	2.73	0.88	0.081
50		390	3.09	1.00	0.092

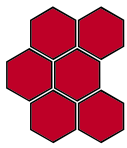


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Female M22		A (mm)	Dry Weight (kg)	Oil Capacity (Litres)	Matrix Face Area (M2)
Row's	Part #				
7		53	0.53	0.14	0.012
10	ARO1847	77	0.71	0.20	0.018
13	ARO1850	100	0.88	0.26	0.024
16	ARO1848	124	1.06	0.32	0.029
19	ARO1849	147	1.24	0.38	0.035
25	ARO1851	194	1.60	0.50	0.046
34		265	2.14	0.68	0.062
44		344	2.73	0.88	0.081
50		390	3.09	1.00	0.092
<b>115 Matrix Length</b>					
FITTINGS		DIMENSIONS			
Male 3/8" BSP		A (mm)	Dry Weight (kg)	Capacity (Litre)	Matrix Face Area (M2)
Row's	Part #				
7	ARO1513	53	0.32	0.09	0.006
10	ARO1218	77	0.42	0.12	0.009
13	ARO1736	100	0.52	0.16	0.012
16	ARO1917	124	0.63	0.20	0.014
19		147	0.73	0.24	0.017
25		194	0.94	0.31	0.022
34		265	1.26	0.42	0.030
44		344	1.61	0.55	0.040
50		390	1.82	0.62	0.045
Male 1/2" BSP		A (mm)	Dry Weight (kg)	Capacity (Litre)	Matrix Face Area (M2)
Row's	Part #				
7	ARO1162	53	0.32	0.09	0.006
10	ARO1093	77	0.42	0.12	0.009
13	ARO1163	100	0.52	0.16	0.012
16	ARO1095	124	0.63	0.20	0.014
19	ARO1247	147	0.73	0.24	0.017
25	ARO1494	194	0.94	0.31	0.022
34	ARO1823	265	1.26	0.42	0.030
44	ARO1921	344	1.61	0.55	0.040
50	ARO1922	390	1.82	0.62	0.045
Male 5/8" BSP		A (mm)	Dry Weight (kg)	Capacity (Litre)	Matrix Face Area (M2)
Row's	Part #				
7		53	0.32	0.09	0.006
10	ARO1693	77	0.42	0.12	0.009
13	ARO1278	100	0.52	0.16	0.012
16	ARO1691	124	0.63	0.20	0.014
19	ARO1920	147	0.73	0.24	0.017
25	ARO1773	194	0.94	0.31	0.022
34	ARO1744	265	1.26	0.42	0.030
44	ARO1774	344	1.61	0.55	0.040
50	ARO1775	390	1.82	0.62	0.045

Male 3/4" BSP		A (mm)	Dry Weight (kg)	Capacity (Litre)	Matrix Face Area (M2)
Row's	Part #				
7		53	0.32	0.09	0.006
10		77	0.42	0.12	0.009
13		100	0.52	0.16	0.012
16		124	0.63	0.20	0.014
19		147	0.73	0.24	0.017
25		194	0.94	0.31	0.022
34		265	1.26	0.42	0.030
44		344	1.61	0.55	0.040
50		390	1.82	0.62	0.045
Male 1" BSP		A (mm)	Dry Weight (kg)	Capacity (Litre)	Matrix Face Area (M2)
Row's	Part #				
7		53	0.32	0.09	0.006
10		77	0.42	0.12	0.009
13		100	0.52	0.16	0.012
16		124	0.63	0.20	0.014
19		147	0.73	0.24	0.017
25		194	0.94	0.31	0.022
34		265	1.26	0.42	0.030
44		344	1.61	0.55	0.040
50		390	1.82	0.62	0.045
Male -6 AN		A (mm)	Dry Weight (kg)	Capacity (Litre)	Matrix Face Area (M2)
Row's	Part #				
7	ARO1499	53	0.32	0.09	0.006
10	ARO1221	77	0.42	0.12	0.009
13	ARO1520	100	0.52	0.16	0.012
16	ARO1550	124	0.63	0.20	0.014
19	ARO1746	147	0.73	0.24	0.017
25		194	0.94	0.31	0.022
34	ARO1867	265	1.26	0.42	0.030
44		344	1.61	0.55	0.040
50		390	1.82	0.62	0.045
Male -8 AN		A (mm)	Dry Weight (kg)	Capacity (Litre)	Matrix Face Area (M2)
Row's	Part #				
7	ARO0063	53	0.32	0.09	0.006
10	ARO1221	77	0.42	0.12	0.009
13	ARO1520	100	0.52	0.16	0.012
16	ARO1222	124	0.63	0.20	0.014
19	ARO0068	147	0.73	0.24	0.017
25	ARO1663	194	0.94	0.31	0.022
34		265	1.26	0.42	0.030
44		344	1.61	0.55	0.040
50		390	1.82	0.62	0.045
Male -10 AN		A (mm)	Dry Weight (kg)	Capacity (Litre)	Matrix Face Area (M2)
Row's	Part #				
7	ARO0064	53	0.32	0.09	0.006
10	ARO0066	77	0.42	0.12	0.009
13	ARO1504	100	0.52	0.16	0.012
16	ARO0062	124	0.63	0.20	0.014
19	ARO1490	147	0.73	0.24	0.017
25	ARO1509	194	0.94	0.31	0.022
34	ARO1925	265	1.26	0.42	0.030
44	ARO2154	344	1.61	0.55	0.040
50	ARO1894	390	1.82	0.62	0.045



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Male -12 AN		A (mm)	Dry Weight (kg)	Capacity (Litre)	Matrix Face Area (M2)
Row's	Part #				
7		53	0.32	0.09	0.006
10		77	0.42	0.12	0.009
13		100	0.52	0.16	0.012
16	ARO0067	124	0.63	0.20	0.014
19	ARO1502	147	0.73	0.24	0.017
25	ARO1517	194	0.94	0.31	0.022
34	ARO1876	265	1.26	0.42	0.030
44	ARO1735	344	1.61	0.55	0.040
50	ARO1654	390	1.82	0.62	0.045
Male -16 AN		A (mm)	Dry Weight (kg)	Capacity (Litre)	Matrix Face Area (M2)
Row's	Part #				
7		53	0.32	0.09	0.006
10		77	0.42	0.12	0.009
13		100	0.52	0.16	0.012
16	ARO1868	124	0.63	0.20	0.014
19		147	0.73	0.24	0.017
25		194	0.94	0.31	0.022
34	ARO1523	265	1.26	0.42	0.030
44	ARO1496	344	1.61	0.55	0.040
50	ARO1923	390	1.82	0.62	0.045
Female M14		A (mm)	Dry Weight (kg)	Capacity (Litre)	Matrix Face Area (M2)
Row's	Part #				
7	ARO1901	53	0.32	0.09	0.006
10	ARO1902	77	0.42	0.12	0.009
13	ARO2144	100	0.52	0.16	0.012
16	ARO1914	124	0.63	0.20	0.014
19		147	0.73	0.24	0.017
25		194	0.94	0.31	0.022
34		265	1.26	0.42	0.030
44		344	1.61	0.55	0.040
50		390	1.82	0.62	0.045
Female M18		A (mm)	Dry Weight (kg)	Capacity (Litre)	Matrix Face Area (M2)
Row's	Part #				
7	ARO2035	53	0.32	0.09	0.006
10	ARO2036	77	0.42	0.12	0.009
13	ARO2037	100	0.52	0.16	0.012
16	ARO2038	124	0.63	0.20	0.014
19	ARO2039	147	0.73	0.24	0.017
25	ARO2040	194	0.94	0.31	0.022
34	ARO2041	265	1.26	0.42	0.030
44		344	1.61	0.55	0.040
50		390	1.82	0.62	0.045
Female M22		A (mm)	Dry Weight (kg)	Capacity (Litre)	Matrix Face Area (M2)
Row's	Part #				
7		53	0.32	0.09	0.006
10		77	0.42	0.12	0.009
13		100	0.52	0.16	0.012
16	ARO2142	124	0.63	0.20	0.014
19		147	0.73	0.24	0.017
25		194	0.94	0.31	0.022
34		265	1.26	0.42	0.030
44		344	1.61	0.55	0.040
50		390	1.82	0.62	0.045