

# Opteon™ YF

Automotive Refrigerant

Transport Properties of Opteon™ YF Engineering (I/P) Units













**Opteon™ YF**  
**Superheated Vapor - Heat Capacity Ratio Table**

Rev 1, 10 Nov 2010

Heat Capacity Ratio, Cp/Cv

Saturation Properties in Light Green

Temp °F	ABSOLUTE PRESSURE, psia												
	14.7	25	50	75	100	150	200	250	300	350	400	450	475
	-21.1 °F	2.0 °F	36.7 °F	59.8 °F	77.7 °F	105.1 °F	126.4 °F	143.9 °F	159.0 °F	172.2 °F	184.0 °F	194.7 °F	199.6 °F
-20	1.1289	-	-	-	-	-	-	-	-	-	-	-	-
-15	1.1265	-	-	-	-	-	-	-	-	-	-	-	-
-10	1.1243	-	-	-	-	-	-	-	-	-	-	-	-
-5	1.1222	-	-	-	-	-	-	-	-	-	-	-	-
0	1.1201	-	-	-	-	-	-	-	-	-	-	-	-
5	1.1182	1.1351	-	-	-	-	-	-	-	-	-	-	-
10	1.1164	1.1322	-	-	-	-	-	-	-	-	-	-	-
15	1.1147	1.1295	-	-	-	-	-	-	-	-	-	-	-
20	1.1131	1.1270	-	-	-	-	-	-	-	-	-	-	-
25	1.1115	1.1246	-	-	-	-	-	-	-	-	-	-	-
30	1.1100	1.1224	-	-	-	-	-	-	-	-	-	-	-
35	1.1086	1.1202	-	-	-	-	-	-	-	-	-	-	-
40	1.1072	1.1182	1.1538	-	-	-	-	-	-	-	-	-	-
45	1.1059	1.1163	1.1496	-	-	-	-	-	-	-	-	-	-
50	1.1047	1.1145	1.1456	-	-	-	-	-	-	-	-	-	-
55	1.1034	1.1128	1.1420	-	-	-	-	-	-	-	-	-	-
60	1.1023	1.1112	1.1386	1.1788	-	-	-	-	-	-	-	-	-
65	1.1012	1.1096	1.1354	1.1726	-	-	-	-	-	-	-	-	-
70	1.1001	1.1082	1.1324	1.1669	-	-	-	-	-	-	-	-	-
75	1.0991	1.1067	1.1297	1.1616	-	-	-	-	-	-	-	-	-
80	1.0981	1.1054	1.1271	1.1568	1.2004	-	-	-	-	-	-	-	-
85	1.0971	1.1041	1.1246	1.1523	1.1921	-	-	-	-	-	-	-	-
90	1.0962	1.1028	1.1223	1.1482	1.1847	-	-	-	-	-	-	-	-
95	1.0953	1.1017	1.1201	1.1444	1.1779	-	-	-	-	-	-	-	-
100	1.0944	1.1005	1.1180	1.1409	1.1718	-	-	-	-	-	-	-	-
105	1.0936	1.0994	1.1161	1.1375	1.1662	-	-	-	-	-	-	-	-
110	1.0928	1.0984	1.1142	1.1345	1.1610	1.2521	-	-	-	-	-	-	-
115	1.0920	1.0973	1.1125	1.1316	1.1563	1.2380	-	-	-	-	-	-	-
120	1.0912	1.0964	1.1108	1.1289	1.1520	1.2257	-	-	-	-	-	-	-
125	1.0905	1.0954	1.1092	1.1263	1.1479	1.2149	-	-	-	-	-	-	-
130	1.0897	1.0945	1.1077	1.1239	1.1442	1.2054	1.3322	-	-	-	-	-	-
135	1.0890	1.0936	1.1063	1.1217	1.1407	1.1969	1.3063	-	-	-	-	-	-
140	1.0884	1.0928	1.1049	1.1195	1.1375	1.1893	1.2849	-	-	-	-	-	-
145	1.0877	1.0919	1.1036	1.1175	1.1345	1.1824	1.2670	1.4654	-	-	-	-	-
150	1.0871	1.0911	1.1023	1.1156	1.1316	1.1762	1.2518	1.4125	-	-	-	-	-
155	1.0864	1.0904	1.1011	1.1138	1.1290	1.1705	1.2386	1.3725	-	-	-	-	-
160	1.0858	1.0896	1.0999	1.1120	1.1265	1.1653	1.2270	1.3411	1.6440	-	-	-	-
165	1.0852	1.0889	1.0988	1.1104	1.1241	1.1605	1.2168	1.3155	1.5426	-	-	-	-
170	1.0846	1.0882	1.0977	1.1088	1.1219	1.1561	1.2077	1.2943	1.4736	-	-	-	-
175	1.0841	1.0875	1.0967	1.1073	1.1198	1.1520	1.1995	1.2763	1.4230	1.8489	-	-	-
180	1.0835	1.0868	1.0957	1.1059	1.1178	1.1481	1.1921	1.2608	1.3839	1.6795	-	-	-
185	1.0830	1.0862	1.0947	1.1046	1.1159	1.1446	1.1854	1.2474	1.3526	1.5749	2.5148	-	-
190	1.0825	1.0856	1.0938	1.1032	1.1141	1.1412	1.1792	1.2355	1.3269	1.5025	2.0124	-	-
195	1.0819	1.0850	1.0929	1.1020	1.1124	1.1381	1.1736	1.2249	1.3053	1.4488	1.7874	4.6280	-
200	1.0814	1.0844	1.0921	1.1008	1.1107	1.1352	1.1684	1.2155	1.2868	1.4071	1.6546	2.5406	7.8901
205	1.0809	1.0838	1.0912	1.0996	1.1092	1.1324	1.1636	1.2070	1.2709	1.3735	1.5652	2.0640	2.8678
210	1.0805	1.0832	1.0904	1.0985	1.1077	1.1299	1.1592	1.1993	1.2569	1.3459	1.5001	1.8344	2.2135
215	1.0800	1.0827	1.0896	1.0975	1.1062	1.1274	1.1550	1.1923	1.2446	1.3226	1.4502	1.6951	1.9265
220	1.0795	1.0821	1.0889	1.0964	1.1049	1.1251	1.1512	1.1858	1.2336	1.3027	1.4106	1.6001	1.7598
225	1.0791	1.0816	1.0882	1.0954	1.1036	1.1229	1.1476	1.1800	1.2237	1.2855	1.3782	1.5305	1.6490
230	1.0787	1.0811	1.0875	1.0945	1.1023	1.1208	1.1442	1.1745	1.2148	1.2705	1.3512	1.4769	1.5693
235	1.0782	1.0806	1.0868	1.0936	1.1011	1.1188	1.1411	1.1695	1.2068	1.2572	1.3283	1.4343	1.5088
240	1.0778	1.0801	1.0861	1.0927	1.1000	1.1169	1.1381	1.1648	1.1994	1.2453	1.3085	1.3995	1.4611
245	1.0774	1.0796	1.0854	1.0918	1.0988	1.1152	1.1353	1.1605	1.1927	1.2347	1.2914	1.3704	1.4225
250	1.0770	1.0792	1.0848	1.0910	1.0978	1.1134	1.1326	1.1564	1.1865	1.2252	1.2763	1.3458	1.3904
255	1.0766	1.0787	1.0842	1.0902	1.0967	1.1118	1.1301	1.1527	1.1808	1.2165	1.2629	1.3246	1.3634
260	1.0762	1.0783	1.0836	1.0894	1.0957	1.1102	1.1278	1.1491	1.1755	1.2086	1.2509	1.3061	1.3403
265	1.0758	1.0778	1.0830	1.0887	1.0948	1.1088	1.1255	1.1458	1.1706	1.2014	1.2402	1.2900	1.3202
270	1.0755	1.0774	1.0825	1.0879	1.0939	1.1073	1.1234	1.1426	1.1660	1.1948	1.2305	1.2756	1.3027
275	1.0751	1.0770	1.0819	1.0872	1.0930	1.1060	1.1213	1.1397	1.1618	1.1887	1.2217	1.2628	1.2872
280	1.0747	1.0766	1.0814	1.0865	1.0921	1.1046	1.1194	1.1369	1.1578	1.1830	1.2137	1.2513	1.2734
285	1.0744	1.0762	1.0809	1.0859	1.0913	1.1034	1.1176	1.1343	1.1541	1.1778	1.2063	1.2409	1.2611
290	1.0740	1.0758	1.0803	1.0852	1.0905	1.1022	1.1158	1.1318	1.1506	1.1729	1.1995	1.2315	1.2500
295	1.0737	1.0754	1.0798	1.0846	1.0897	1.1010	1.1141	1.1294	1.1473	1.1683	1.1933	1.2229	1.2399
300	1.0734	1.0751	1.0794	1.0840	1.0889	1.0999	1.1125	1.1272	1.1442	1.1641	1.1875	1.2151	1.2307
305	1.0730	1.0747	1.0789	1.0834	1.0882	1.0988	1.1110	1.1250	1.1412	1.1601	1.1821	1.2078	1.2224
310	1.0727	1.0743	1.0784	1.0828	1.0875	1.0977	1.1095	1.1230	1.1385	1.1564	1.1771	1.2012	1.2147





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Replaces: K-24240  
C-10253 (7/15)