

# R-717

**ECONOMIZED, HIGH STAGE - Capacity and Brake Horsepower Rating @ 3550 RPM 60 Hz with flash-type economizer (See Economizer Operation section for selections based on direct expansion or shell and coil economizers). NOTE: Ratings based on liquid subcooling by flash-type economizer, 10°F Suction Superheat with Superheat not contributing to the refrigeration effect, no liquid subcooling from condenser or external source. No allowance for vapor line pressure drop or economizing vessel temperature split is included in the above ratings. \* Chiller Ports required, contact the factory.**

Sat Suct Temp °F	Sat Cond Temp °F	Capacity TR	Power BHP	OCHR (kBTU/hr)	Capacity TR	Power BHP	OCHR (kBTU/hr)	Capacity TR	Power BHP	OCHR (kBTU/hr)
		<b>399</b>			<b>480</b>			<b>546</b>		
-40	75	228.1	515.7	774	274.4	620.5	932	311.8	705.2	1059
	85	223.6	582.2	959	269.1	700.5	1154	305.8	796.1	1312
	95	218.7	656.2	1167	263.1	789.5	1405	299.0	897.3	1583
	105	213.3	740.7	1406	256.6	891.2	1689	291.7	1013.0	1885
	115	207.6	841.4	1684	249.8	1012.5	2008	283.9	1150.9	2243
-35	75	263.4	539.5	766	317.0	649.2	922	360.2	737.8	1048
	85	258.9	608.5	959	311.6	732.1	1153	354.1	832.0	1311
	95	254.0	684.1	1172	305.6	823.1	1410	347.3	935.6	1584
	105	248.4	767.9	1411	298.9	924.0	1692	339.8	1050.4	1883
	115	242.5	863.5	1677	291.8	1039.1	1998	331.6	1181.2	2226
-30	75	302.5	563.6	754	364.0	678.1	907	413.6	770.6	1031
	85	298.0	635.8	956	358.5	764.9	1150	407.4	869.3	1307
	95	292.9	714.0	1177	352.5	859.1	1417	400.6	976.5	1585
	105	287.4	799.6	1423	345.8	962.2	1701	393.1	1093.8	1888
	115	281.3	894.3	1685	338.4	1076.2	2005	384.7	1223.4	2228
-25	75	345.4	587.6	737	415.6	707.0	887	472.3	803.5	1008
	85	340.9	663.3	949	410.2	798.1	1141	466.2	907.0	1297
	95	335.8	745.0	1181	404.1	896.4	1421	459.3	1019.0	1583
	105	330.2	833.4	1437	397.4	1002.9	1710	451.7	1140.1	1892
	115	324.1	930.1	1699	390.0	1119.3	2018	443.3	1272.5	2237
-20	75	392.5	610.7	712	472.2	734.8	857	536.7	835.1	974
	85	388.0	690.9	937	466.8	831.3	1127	530.5	944.7	1281
	95	382.9	776.5	1181	460.7	934.2	1421	523.7	1062.0	1575
	105	377.2	868.6	1447	453.9	1045.3	1716	516.0	1188.4	1894
	115	371.1	968.2	1713	446.5	1165.2	2032	507.6	1324.7	2245
-15	75	444.0	632.2	679	534.2	760.6	817	607.1	864.4	928
	85	439.4	717.7	919	528.7	863.5	1105	600.8	981.3	1256
	95	434.4	807.9	1177	522.6	972.0	1416	594.1	1105.1	1561
	105	428.7	904.2	1451	515.9	1088.2	1717	586.4	1237.2	1889
	115	422.4	1008.0	1725	508.3	1213.1	2043	577.8	1379.2	2251
-10	75	500.1	651.4	634	601.7	783.7	763	683.8	890.6	867
	85	495.6	742.8	891	596.3	893.8	1072	677.6	1015.7	1218
	95	490.4	838.6	1166	590.1	1009.0	1403	670.7	1147.2	1540
	105	484.8	939.9	1449	583.4	1131.1	1712	663.1	1286.1	1878
	115	478.5	1048.3	1733	575.8	1261.6	2048	654.5	1434.4	2250
-5	75	561.2	667.9	578	675.2	803.6	695	767.3	913.3	790
	85	556.5	765.5	853	669.6	921.0	1026	760.9	1046.7	1160
	95	551.4	867.8	1147	663.4	1044.1	1380	754.1	1187.1	1509
	105	545.7	975.1	1442	656.6	1173.5	1701	746.4	1334.3	1859
	115	539.5	1088.5	1735	649.2	1310.0	2047	—	—	—
0	75	628.0	681.6	508	755.6	820.1	611	858.7	932.1	695
	85	622.7	785.4	802	749.2	945.0	965	851.4	1074.0	1097
	95	617.5	894.4	1117	742.9	1076.1	1344	844.5	1223.4	1468
	105	611.8	1008.5	1428	736.2	1213.8	1681	836.8	1380.1	1831
	115	605.5	1128.5	1732	728.6	1358.1	2040	—	—	—
5	75	700.6	691.7	423	842.9	832.2	509	958.0	945.8	578
	85	694.5	802.2	738	835.6	965.1	888	949.6	1096.9	1009
	95	688.9	918.0	1074	828.9	1104.5	1292	942.1	1255.7	1416
	105	683.2	1039.5	1404	822.1	1251.0	1650	—	—	—
	115	676.9	1166.7	1720	814.5	1404.1	2023	—	—	—
10	75	778.5	696.4	325	936.8	838.0	384	1064.6	952.3	437
	85	772.7	815.4	658	929.7	981.1	792	1056.5	1115.0	900
	95	766.1	938.1	1018	921.8	1128.7	1224	1047.7	1283.1	1354
	105	760.2	1067.2	1372	914.8	1284.3	1608	—	—	—
	115	754.0	1202.4	1699	907.3	1447.1	1995	—	—	—
15	75	862.1	695.1	278	1037.5	836.7	294	1179.3	951.2	304
	85	856.7	823.5	561	1030.8	990.8	675	1171.5	1126.1	767
	95	850.0	954.8	946	1022.7	1148.8	1139	1162.3	1305.6	1281

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Sat Suct Temp °F	Sat Cond Temp °F	Capacity TR	Power BHP	OCHR (kBtu/hr)	Capacity TR	Power BHP	OCHR (kBtu/hr)	Capacity TR	Power BHP	OCHR (kBtu/hr)
		<b>399</b>			<b>480</b>			<b>546</b>		
15	105	843.2	1091.2	1330	1014.6	1313.2	1556	—	—	—
	115	836.7	1234.6	1669	—	—	—	—	—	—
20	75	952.4	688.6	231	1146.1	828.8	243	1302.7	942.1	250
	85	946.6	825.5	443	1138.9	993.2	533	1294.4	1128.7	606
	95	940.3	966.6	857	1131.4	1163.0	1032	—	—	—
	105	932.8	1111.2	1279	1122.4	1337.4	1493	—	—	—
	115	925.7	1262.9	1628	—	—	—	—	—	—
25	75	1050.5	679.9	187	1264.1	818.2	196	1436.8	930.1	200
	85	1043.0	821.2	334	1255.0	988.3	367	1426.3	1123.2	417
	95	1036.5	971.7	748	1247.1	1169.1	899	—	—	—
	105	1029.4	1126.6	1218	1238.6	1355.9	1419	—	—	—
	115	1021.3	1286.8	1577	—	—	—	—	—	—
30	75	1155.6	668.7	147	1390.6	804.7	152	1580.5*	914.6*	156*
	85	1147.2	811.7	282	1380.5	976.9	295	1569.0	1110.4	302
	95	1139.4	970.2	617	1370.9	1167.4	742	—	—	—
	105	1132.4	1135.7	1121	1362.6	1366.5	1334	—	—	—
	115	1124.4	1306.3	1516	—	—	—	—	—	—
35	75	1268.6	655.1	110	1526.5*	788.3*	113*	1734.9*	895.9*	115*
	85	1259.0	801.2	234	1514.9	964.2	243	1721.8	1095.9	249
	95	1249.6	962.2	463	1503.5	1157.7	557	—	—	—
	105	1242.0	1137.3	1000	—	—	—	—	—	—
	115	1234.6	1319.6	1444	—	—	—	—	—	—
40	75	1387.8	638.1	76	1681.1*	716.3*	63*	1905.3*	841.5*	71*
	85	1379.0	786.8	189	1659.3	946.8	195	1885.8*	1076.1*	199*
	95	1368.7	951.3	342	1646.9	1144.9	356	—	—	—
	105	1358.8	1131.6	856	—	—	—	—	—	—
	115	1351.0	1324.4	1361	—	—	—	—	—	—

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Sat Suct Temp °F	Sat Cond Temp °F	Capacity TR	Power BHP	OCHR (kBTU/hr)	Capacity TR	Power BHP	OCHR (kBTU/hr)	Capacity TR	Power BHP	OCHR (kBTU/hr)
		<b>399</b>			<b>480</b>			<b>546</b>		
-40	75	194.3	479.6	767	233.8	577.1	923	265.7	655.9	1049
	85	186.4	538.3	938	224.3	647.7	1129	254.9	736.1	1283
	95	178.2	603.9	1130	214.4	726.7	1360	243.6	825.8	1541
	105	169.7	679.9	1351	204.2	818.0	1625	232.1	929.6	1825
	115	161.2	772.0	1615	193.9	928.9	1932	220.4	1055.7	2166
-35	75	226.7	502.9	764	272.8	605.1	919	310.0	687.6	1044
	85	218.1	563.3	941	262.4	677.7	1133	298.2	770.2	1287
	95	209.2	629.5	1137	251.6	757.5	1368	286.0	860.8	1547
	105	199.9	703.4	1356	240.5	846.3	1631	273.3	961.8	1826
	115	190.4	788.6	1606	229.0	948.9	1920	260.3	1078.4	2147
-30	75	263.0	526.8	757	316.4	633.8	910	359.6	720.3	1035
	85	253.5	589.7	943	305.1	709.6	1135	346.7	806.4	1290
	95	243.8	657.7	1146	293.3	791.3	1379	333.3	899.3	1554
	105	233.7	732.2	1369	281.2	881.0	1647	319.6	1001.2	1836
	115	223.2	814.9	1617	268.6	980.5	1928	305.2	1114.3	2151
-25	75	303.3	551.2	746	364.9	663.2	897	414.7	753.7	1020
	85	293.1	617.1	942	352.6	742.4	1134	400.8	843.7	1288
	95	282.4	687.7	1155	339.8	827.4	1390	386.2	940.3	1558
	105	271.4	763.8	1386	326.6	919.0	1662	371.1	1044.4	1847
	115	260.1	847.2	1635	312.9	1019.3	1946	355.6	1158.4	2165
-20	75	348.1	575.1	728	418.8	692.0	876	476.0	786.4	995
	85	337.0	645.0	937	405.4	776.0	1128	460.7	881.9	1282
	95	325.4	718.7	1161	391.5	864.7	1397	444.9	982.7	1559
	105	313.3	797.6	1403	377.0	959.7	1675	428.5	1090.7	1856
	115	301.0	882.5	1653	362.1	1061.9	1965	411.6	1206.8	2181
-15	75	397.7	597.8	701	478.5	719.3	844	543.8	817.5	959
	85	385.5	672.6	926	463.9	809.3	1115	527.2	919.7	1267
	95	372.9	750.4	1164	448.7	902.8	1401	510.0	1026.1	1554
	105	359.9	832.6	1419	433.0	1001.8	1685	492.1	1138.5	1861
	115	346.3	920.5	1672	416.7	1107.5	1985	473.6	1258.6	2196
-10	75	452.4	618.6	664	544.3	744.3	799	618.6	845.9	908
	85	439.2	699.1	907	528.5	841.2	1091	600.6	956.0	1240
	95	425.4	782.0	1162	511.9	940.9	1398	581.7	1069.3	1541
	105	411.3	868.3	1427	494.8	1044.8	1689	562.4	1187.4	1860
	115	396.5	959.7	1688	477.1	1154.7	2000	542.2	1312.3	2207
-5	75	512.7	637.1	614	616.9	766.6	739	701.0	871.2	840
	85	498.2	723.6	877	599.4	870.7	1055	681.2	989.5	1199
	95	483.3	812.7	1152	581.5	977.8	1386	660.8	1111.2	1519
	105	467.8	904.4	1428	562.8	1088.1	1688	639.6	1236.6	1852
	115	451.9	999.8	1699	543.7	1202.9	2010	—	—	—
0	75	579.3	653.1	551	697.1	785.8	663	792.2	893.1	754
	85	563.0	745.9	835	677.4	897.4	1004	769.9	1019.9	1141
	95	546.7	841.3	1131	657.8	1012.3	1361	747.6	1150.4	1486
	105	529.9	939.4	1421	637.6	1130.3	1677	724.6	1284.5	1834
	115	512.5	1040.5	1705	616.7	1251.9	2014	—	—	—
5	75	652.7	665.7	472	785.3	801.0	568	892.4	910.3	645
	85	634.3	765.3	779	763.2	920.8	937	867.4	1046.5	1065
	95	616.3	867.6	1098	741.5	1043.9	1322	842.7	1186.3	1441
	105	598.0	972.6	1406	719.5	1170.3	1655	—	—	—
	115	579.1	1080.3	1704	696.7	1299.9	2008	—	—	—
10	75	732.3	673.2	374	881.2	809.9	450	1001.4	920.5	511
	85	712.8	781.6	707	857.7	940.4	851	974.7	1068.7	967
	95	692.4	890.9	1052	833.1	1071.9	1266	946.8	1218.2	1384
	105	672.4	1003.3	1381	809.0	1207.1	1623	—	—	—
	115	651.9	1118.5	1693	—	—	—	—	—	—
15	75	819.2	675.4	295	985.7	812.7	312	1120.2	923.6	349
	85	798.3	793.0	617	960.5	954.2	742	1091.6	1084.4	843

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		<b>399</b>			<b>480</b>			<b>546</b>		
15	95	776.1	911.1	991	933.8	1096.2	1192	1061.2	1245.8	1316
	105	753.6	1030.9	1346	906.7	1240.4	1578	—	—	—
	115	731.1	1153.9	1671	—	—	—	—	—	—
20	75	914.3	672.6	245	1100.0	809.3	258	1250.2	919.7	266
	85	890.9	798.6	505	1071.9	960.9	608	1218.2	1092.0	691
	95	867.4	926.9	911	1043.7	1115.2	1096	—	—	—
	105	842.4	1055.2	1300	1013.5	1269.6	1521	—	—	—
25	115	817.5	1186.2	1639	—	—	—	—	—	—
	75	1018.8	667.7	199	1225.9	803.4	208	1393.2	913.0	213
	85	991.6	798.3	371	1193.0	960.5	446	1355.9	1091.6	507
	95	966.0	936.2	810	1162.2	1126.5	974	—	—	—
	105	939.4	1075.3	1244	1130.3	1293.8	1452	—	—	—
30	115	911.5	1214.8	1595	—	—	—	—	—	—
	75	1132.6	660.2	156	1362.8	794.3	162	1548.7	902.7	165
	85	1102.1	793.4	297	1326.0	954.6	311	1507.0	1084.8	320
	95	1072.8	939.4	685	1290.8	1130.3	824	—	—	—
	105	1044.3	1089.4	1176	—	—	—	—	—	—
35	115	1014.3	1239.6	1540	—	—	—	—	—	—
	75	1256.6	650.0	116	1511.9	782.0	120	1718.2*	888.8*	122*
	85	1222.4	787.5	247	1470.7	947.5	257	1671.5	1076.8	263
	95	1188.8	936.2	537	1430.4	1126.4	646	—	—	—
	105	1157.4	1096.4	1066	—	—	—	—	—	—
40	115	1125.6	1259.0	1474	—	—	—	—	—	—
	75	1389.6	635.7	79	1682.0*	713.1*	66*	1907.0*	838.0*	74*
	85	1353.3	777.5	198	1628.3	935.5	205	1850.5*	1063.2*	209*
	95	1316.0	930.5	371	1583.4	1119.6	447	—	—	—
	105	1279.6	1096.5	930	—	—	—	—	—	—
115	1245.0	1270.3	1394	—	—	—	—	—	—	