

Amps @ 460-3-60
 230-3-60 multiply by 2
 575-3-60 multiply by .8

Rating Information: 65°F Return Gas
 Liquid Subcooled to 10°F above SIT
 Horsepower 20
 Displacement 39 CFM @ 60 Hz

SCT

120°F		SST (°F)	-40	-35	-30	-25	-20	-15	-10	-5	0
Capacity (Btu/hr)*			35,072	41,685	48,676	55,956	63,878	72,163	81,265	90,791	101,317
Evap (Lb/hr)			341	410	485	566	654	750	856	973	1102
Cond (Lb/hr)			526	623	726	832	948	1069	1202	1342	1496
Power (kW)			16.6	17	17.4	17.8	18.2	18.5	18.9	19.2	19.6
Current (Amps)			25.4	26	26.5	27	27.5	27.9	28.4	28.8	29.3
Efficiency (EER)			2.1	2.5	2.8	3.1	3.5	3.9	4.3	4.7	5.2
SIT (°F)			0	4	8	13	17	22	26	31	35
130°F											
Capacity (Btu/hr)*			28,956	35,433	42,126	49,314	56,800	64,762	73,478	82,592	92,644
Evap (Lb/hr)			284	351	424	503	588	681	784	896	1020
Cond (Lb/hr)			458	559	662	773	888	1011	1145	1286	1441
Power (kW)			18.5	19	19.4	19.9	20.3	20.7	21.1	21.5	21.9
Current (Amps)			27.8	28.5	29	29.6	30.2	30.7	31.3	31.7	32.3
Efficiency (EER)			1.6	1.9	2.2	2.5	2.8	3.1	3.5	3.8	4.2
SIT (°F)			3	7	12	16	21	26	30	35	39
		SST (°F)	-40	-35	-30	-25	-20	-15	-10	-5	0

70°F to 120°F SCT, -40°F to 0°F SST see page 5
 70°F to 120°F SCT, 0°F to 50°F SST see page 7
 120°F to 130°F SCT, 0°F to 50°F SST see page 8

Data assumes oil cooler utilized. If not, refer to Bulletin 98T-5 for any possible capacity & condenser performance adjustments.

Amps @ 460-3-60
 230-3-60 multiply by 2
 575-3-60 multiply by .8

Rating Information: 65°F Return Gas
 Liquid Subcooled to 10°F above SIT
 Horsepower 20
 Displacement 39 CFM @ 60 Hz

**SCT
 80°F**

SST (°F)	-10	-5	0	5	10	15	20	25	30	35
Capacity (Btu/hr)*	65,788	73,762	82,059	91,474	101,507	112,488	124,463	137,460	151,481	167,141
Evap (Lb/hr)	675	762	860	970	1093	1231	1385	1556	1746	1955
Cond (Lb/hr)	865	969	1077	1199	1330	1473	1630	1802	1988	2198
Power (kW)	8	8	8.1	8.1	8.1	8.2	8.2	8.3	8.3	8.3
Current (Amps)	14	14.1	14.1	14.2	14.2	14.2	14.3	14.3	14.3	14.4
Efficiency (EER)	8.3	9.2	10.2	11.3	12.5	13.7	15.1	16.6	18.3	20
SIT (°F)	11	13	17	20	24	28	32	36	40	43

90°F

Capacity (Btu/hr)*	62,956	70,584	78,987	87,963	97,493	108,301	119,715	132,122	145,543	159,971
Evap (Lb/hr)	663	749	845	952	1072	1207	1356	1524	1709	1915
Cond (Lb/hr)	866	970	1085	1208	1338	1486	1643	1814	2001	2203
Power (kW)	9	9.1	9.1	9.2	9.2	9.3	9.3	9.4	9.4	9.4
Current (Amps)	15	15.1	15.2	15.2	15.2	15.3	15.4	15.4	15.4	15.5
Efficiency (EER)	7	7.8	8.7	9.6	10.6	11.7	12.8	14.1	15.5	16.9
SIT (°F)	19	21	23	26	30	33	37	41	45	49

100°F

Capacity (Btu/hr)*	60,151	67,644	75,621	84,091	93,380	103,576	114,759	126,510	139,251	152,996
Evap (Lb/hr)	650	735	829	933	1049	1179	1325	1487	1668	1869
Cond (Lb/hr)	867	976	1091	1213	1346	1493	1655	1825	2011	2214
Power (kW)	10.2	10.3	10.3	10.4	10.4	10.5	10.6	10.6	10.7	10.7
Current (Amps)	16.3	16.3	16.4	16.4	16.5	16.5	16.6	16.7	16.7	16.8
Efficiency (EER)	5.9	6.6	7.3	8.1	9	9.9	10.8	11.9	13	14.3
SIT (°F)	27	28	30	33	36	39	42	46	50	54

110°F

Capacity (Btu/hr)*	57,170	64,244	71,973	80,472	89,184	98,729	109,194	120,659	132,650	145,626
Evap (Lb/hr)	638	721	812	913	1025	1150	1290	1447	1622	1816
Cond (Lb/hr)	866	974	1093	1222	1355	1500	1659	1835	2019	2221
Power (kW)	11.5	11.6	11.6	11.7	11.8	11.9	11.9	12	12.1	12.2
Current (Amps)	17.7	17.7	17.8	17.9	17.9	18	18.1	18.2	18.2	18.3
Efficiency (EER)	5	5.6	6.2	6.9	7.6	8.3	9.1	10	11	12
SIT (°F)	36	37	38	39	42	45	48	51	55	59

120°F

Capacity (Btu/hr)*	54,016	61,091	68,580	76,516	84,918	94,153	103,908	114,602	125,783	138,518
Evap (Lb/hr)	626	706	794	891	999	1118	1252	1402	1570	1758
Cond (Lb/hr)	862	978	1099	1227	1363	1512	1670	1843	2025	2234
Power (kW)	13	13.1	13.2	13.3	13.3	13.5	13.5	13.6	13.7	13.8
Current (Amps)	19.4	19.4	19.5	19.6	19.7	19.8	19.8	20	20	20.2
Efficiency (EER)	4.2	4.7	5.2	5.8	6.4	7	7.7	8.4	9.2	10
SIT (°F)	46	45	45	46	48	50	53	56	60	63

130°F

Capacity (Btu/hr)*	50,691	57,491	64,660	72,242	80,265	88,744	98,075	107,905	118,688	130,503
Evap (Lb/hr)	613	691	776	868	971	1084	1212	1354	1514	1693
Cond (Lb/hr)	855	973	1097	1228	1366	1512	1673	1842	2029	2235
Power (kW)	14.6	14.7	14.8	14.9	15.1	15.1	15.3	15.4	15.5	15.6
Current (Amps)	21.3	21.4	21.5	21.6	21.7	21.8	21.9	22	22.1	22.3
Efficiency (EER)	3.5	3.9	4.4	4.8	5.3	5.9	6.4	7	7.7	8.4
SIT (°F)	57	55	54	54	55	57	59	62	65	68
SST (°F)	-10	-5	0	5	10	15	20	25	30	35

120°F to 150°F SCT, 0°F to 40°F SST see page 6
 70°F to 120°F SCT, 40°F to 55°F SST see page 7
 120°F to 150°F SCT, 40°F to 55°F SST see page 8

*Compressor capacity shown. Evaporator capacity may be less. See Carlyle Selection Program Software Guide to note differences.

Amps @ 460-3-60
 230-3-60 multiply by 2
 575-3-60 multiply by .8

Rating Information: 65°F Return Gas
 Liquid Subcooled to 10°F above SIT
 Horsepower 20
 Displacement 39 CFM @ 60 Hz

SCT

		SST (°F)									
		-10	-5	0	5	10	15	20	25	30	35
130°F	Capacity (Btu/hr)*	50,691	57,491	64,660	72,242	80,265	88,744	98,075	107,905	118,688	130,503
	Evap (Lb/hr)	613	691	776	868	971	1084	1212	1354	1514	1693
	Cond (Lb/hr)	855	973	1097	1228	1366	1512	1673	1842	2029	2235
	Power (kW)	14.6	14.7	14.8	14.9	15.1	15.1	15.3	15.4	15.5	15.6
	Current (Amps)	21.3	21.4	21.5	21.6	21.7	21.8	21.9	22	22.1	22.3
	Efficiency (EER)	3.5	3.9	4.4	4.8	5.3	5.9	6.4	7	7.7	8.4
	SIT (°F)	57	55	54	54	55	57	59	62	65	68
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140°F	Capacity (Btu/hr)*	47,405	53,916	60,747	67,952	75,571	83,632	92,141	101,527	111,399	122,243
	Evap (Lb/hr)	601	676	756	844	941	1048	1168	1302	1453	1622
	Cond (Lb/hr)	849	969	1096	1229	1370	1519	1676	1849	2031	2233
	Power (kW)	16.4	16.6	16.7	16.9	17	17.1	17.2	17.4	17.5	17.6
	Current (Amps)	23.7	23.8	23.9	24	24.1	24.3	24.3	24.5	24.6	24.8
	Efficiency (EER)	2.9	3.3	3.6	4	4.4	4.9	5.3	5.8	6.4	6.9
	SIT (°F)	68	65	63	62	62	63	65	67	70	73
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150°F	Capacity (Btu/hr)*	43,954	50,137	56,588	63,367	70,525	78,100	86,116	94,576	103,937	113,771
	Evap (Lb/hr)	588	660	736	819	909	1009	1121	1246	1387	1545
	Cond (Lb/hr)	839	962	1091	1226	1369	1519	1679	1847	2033	2230
	Power (kW)	18.5	18.7	18.8	19	19.1	19.3	19.4	19.6	19.7	19.9
	Current (Amps)	26.5	26.6	26.7	26.8	27	27.1	27.3	27.4	27.6	27.7
	Efficiency (EER)	2.4	2.7	3	3.3	3.7	4	4.4	4.8	5.3	5.7
	SIT (°F)	80	76	73	71	70	70	71	73	75	78
	SST (°F)	-10	-5	0	5	10	15	20	25	30	35

80°F to 130°F SCT, -10°F to 35°F SST see page 5
 80°F to 130°F SCT, 40°F to 55°F SST see page 7
 130°F to 150°F SCT, 40°F to 55°F SST see page 8

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 230-3-60 multiply by 2
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Rating Information: 65°F Return Gas
 Liquid Subcooled to 10°F above SIT
 Horsepower 20
 Displacement 39 CFM @ 60 Hz

SCT
 80°F

SST (°F)	40	45	50	55
Capacity (Btu/hr)*	183,886	201,621	221,100	241,414
Evap (Lb/hr)	2184	2433	2702	2990
Cond (Lb/hr)	2424	2667	2936	3222
Power (kW)	8.4	8.4	8.4	8.4
Current (Amps)	14.4	14.4	14.4	14.4
Efficiency (EER)	21.9	24	26.3	28.7
SIT (°F)	46	49	51	53

90°F

Capacity (Btu/hr)*	176,081	193,247	211,355	231,237
Evap (Lb/hr)	2142	2390	2659	2950
Cond (Lb/hr)	2431	2677	2940	3233
Power (kW)	9.5	9.5	9.6	9.6
Current (Amps)	15.5	15.6	15.6	15.6
Efficiency (EER)	18.5	20.2	22.1	24.1
SIT (°F)	52	55	58	60

100°F

Capacity (Btu/hr)*	168,436	184,190	201,675	221,046
Evap (Lb/hr)	2091	2336	2604	2896
Cond (Lb/hr)	2443	2681	2947	3246
Power (kW)	10.8	10.8	10.9	10.9
Current (Amps)	16.9	16.9	16.9	17
Efficiency (EER)	15.6	17	18.6	20.2
SIT (°F)	57	61	64	66

110°F

Capacity (Btu/hr)*	160,290	175,314	192,123	209,933
Evap (Lb/hr)	2033	2273	2537	2827
Cond (Lb/hr)	2450	2689	2958	3249
Power (kW)	12.3	12.3	12.4	12.4
Current (Amps)	18.4	18.5	18.6	18.6
Efficiency (EER)	13.1	14.3	15.5	16.9
SIT (°F)	62	66	69	72

120°F

Capacity (Btu/hr)*	151,710	165,893	181,889	198,968
Evap (Lb/hr)	1967	2200	2458	2743
Cond (Lb/hr)	2452	2690	2962	3256
Power (kW)	13.9	13.9	14	14.1
Current (Amps)	20.2	20.3	20.5	20.6
Efficiency (EER)	10.9	11.9	12.9	14.1
SIT (°F)	67	71	74	77
SST (°F)	40	45	50	55

80°F to 130°F SCT, 0°F to 40°F SST see page 5
 130°F to 150°F SCT, -10°F to 35°F SST see page 6
 130°F to 150°F SCT, 40°F to 55°F SST see page 8

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 Horsepower 20
 Displacement 39 CFM @ 60 Hz

SCT

		40	45	50	55
130°F	Capacity (Btu/hr)*	142,763	156,747	171,064	187,261
	Evap (Lb/hr)	1893	2118	2368	2646
	Cond (Lb/hr)	2450	2699	2957	3253
	Power (kW)	15.7	15.8	15.9	16
	Current (Amps)	22.4	22.6	22.7	22.9
	Efficiency (EER)	9.1	9.9	10.8	11.7
	SIT (°F)	72	75	79	82
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140°F	Capacity (Btu/hr)*	134,140	146,445	160,545	174,923
	Evap (Lb/hr)	1813	2027	2267	2535
	Cond (Lb/hr)	2456	2690	2960	3242
	Power (kW)	17.8	17.9	18	18.1
	Current (Amps)	25	25.1	25.4	25.5
	Efficiency (EER)	7.5	8.2	8.9	9.7
	SIT (°F)	76	80	83	87
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150°F	Capacity (Btu/hr)*	124,599	136,502	148,782	162,927
	Evap (Lb/hr)	1725	1927	2155	2411
	Cond (Lb/hr)	2448	2690	2943	3239
	Power (kW)	20	20.2	20.3	20.5
	Current (Amps)	28	28.2	28.4	28.7
	Efficiency (EER)	6.2	6.8	7.3	7.9
	SIT (°F)	81	84	88	91
	SST (°F)	40	45	50	55

80°F to 130°F SCT, -10°F to 35°F SST see page 5
 130°F to 150°F SCT, -10°F to 35°F SST see page 6
 80°F to 130°F SCT, 40°F to 55°F SST see page 7

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230-3-60 multiply by 2
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Rating Information: 65°F Return Gas
Liquid Subcooled to 10°F above SIT
Horsepower 20
Displacement 39 CFM @ 60 Hz

SCT
70°F

SST (°F)	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
Capacity (Btu/hr)*	53,137	60,167	67,901	76,360	85,868	96,227	107,465	119,604	132,667	147,286	163,039
Evap (Lb/hr)	560	644	740	847	967	1101	1250	1416	1598	1800	2023
Cond (Lb/hr)	827	931	1044	1168	1308	1461	1626	1806	1999	2217	2453
Power (kW)	11.4	11.7	12	12.3	12.6	12.8	13.1	13.3	13.5	13.8	14
Current (Amps)	18.8	19.4	19.9	20.4	20.8	21.1	21.4	21.6	21.7	21.8	21.9
Efficiency (EER)	4.7	5.2	5.7	6.2	6.8	7.5	8.2	9	9.8	10.7	11.6
SIT (°F)	-16.1	-10.8	-6	-1	3	7	11	15	19	22	25
Capacity (Btu/hr)*	50,181	57,163	64,906	73,535	82,594	92,669	103,532	115,210	128,261	141,729	156,104
Evap (Lb/hr)	532	618	714	822	941	1072	1219	1380	1558	1754	1971
Cond (Lb/hr)	840	949	1070	1206	1347	1505	1675	1859	2065	2278	2505
Power (kW)	12.6	12.9	13.2	13.5	13.8	14.1	14.5	14.7	15.1	15.3	15.5
Current (Amps)	20.2	20.9	21.5	22.1	22.6	23	23.3	23.6	23.9	24	24
Efficiency (EER)	4	4.4	4.9	5.4	6	6.6	7.2	7.8	8.5	9.3	10
SIT (°F)	-13.5	-8.3	-3	1	6	10	14	18	21	25	29
Capacity (Btu/hr)*	46,744	53,963	61,684	70,183	79,021	88,772	99,217	110,388	122,317	135,629	149,259
Evap (Lb/hr)	502	589	686	792	910	1039	1182	1338	1511	1701	1910
Cond (Lb/hr)	846	968	1098	1241	1389	1553	1728	1916	2116	2342	2573
Power (kW)	13.9	14.2	14.5	14.9	15.2	15.6	15.9	16.3	16.6	17	17.3
Current (Amps)	21.8	22.7	23.4	24.1	24.6	25.1	25.6	25.9	26.2	26.5	26.6
Efficiency (EER)	3.4	3.8	4.2	4.7	5.2	5.7	6.2	6.8	7.4	8	8.6
SIT (°F)	-10.3	-5.2	0	4	9	13	17	21	25	28	32
Capacity (Btu/hr)*	43,117	50,380	58,043	66,130	74,950	84,332	94,309	104,918	116,194	128,751	141,557
Evap (Lb/hr)	467	556	652	758	873	999	1137	1288	1454	1636	1836
Cond (Lb/hr)	851	985	1125	1272	1432	1602	1783	1975	2179	2408	2641
Power (kW)	15.4	15.7	16.1	16.4	16.8	17.2	17.6	18	18.4	18.8	19.2
Current (Amps)	23.8	24.8	25.6	26.3	27	27.6	28.2	28.6	29	29.4	29.6
Efficiency (EER)	2.8	3.2	3.6	4	4.5	4.9	5.4	5.8	6.3	6.8	7.4
SIT (°F)	-6.6	-1.7	3	8	12	16	20	24	28	31	35
Capacity (Btu/hr)*	38,824	46,066	53,598	61,680	70,184	79,145	88,600	98,585	109,141	120,861	132,758
Evap (Lb/hr)	427	515	611	715	827	949	1081	1226	1384	1557	1746
Cond (Lb/hr)	844	991	1142	1304	1472	1650	1836	2032	2240	2472	2707
Power (kW)	17	17.3	17.7	18.1	18.6	19	19.5	19.9	20.3	20.9	21.3
Current (Amps)	26.1	27.2	28.1	29	29.9	30.6	31.2	31.8	32.2	32.8	33.1
Efficiency (EER)	2.3	2.7	3	3.4	3.8	4.2	4.6	5	5.4	5.8	6.2
SIT (°F)	-2.6	2.2	7	11	15	19	23	27	31	34	38
Capacity (Btu/hr)*	33,717	41,020	48,383	56,170	64,267	72,709	81,883	91,181	100,945	111,742	122,643
Evap (Lb/hr)	377	466	560	661	769	886	1012	1149	1297	1459	1637
Cond (Lb/hr)	818	984	1148	1321	1499	1683	1884	2085	2296	2531	2767
Power (kW)	18.7	19.2	19.6	20	20.5	21	21.5	22	22.5	23.1	23.6
Current (Amps)	28.7	30	31	32.1	33	33.9	34.7	35.4	36	36.6	37
Efficiency (EER)	1.8	2.1	2.5	2.8	3.1	3.5	3.8	4.1	4.5	4.8	5.2
SIT (°F)	1.8	6.3	11	15	19	23	26	30	34	37	41
SST (°F)	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0

120°F to 130°F SCT, -50°F to 0°F SST see page 6

70°F to 120°F SCT, 0°F to 40°F SST see page 7

120°F to 130°F SCT, 0°F to 40°F SST see page 8

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