



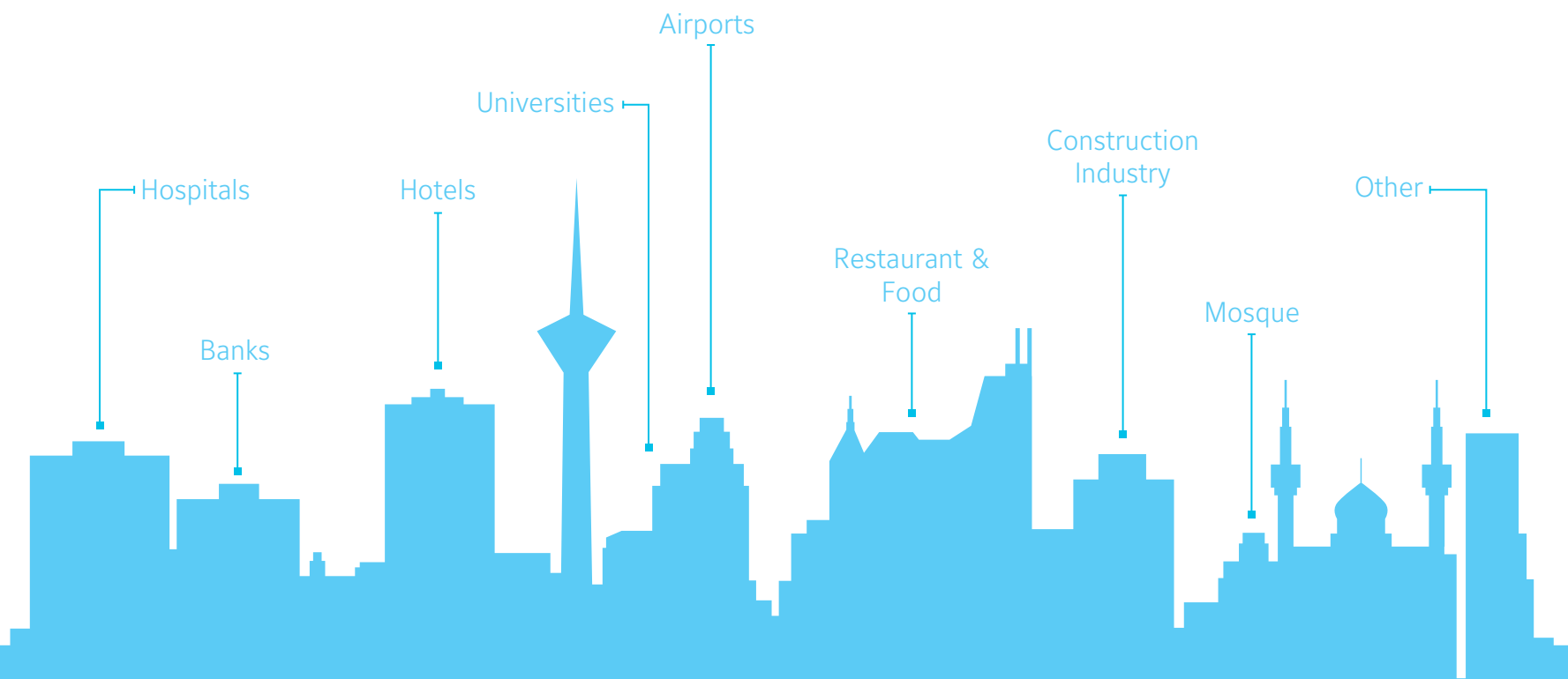
www.saran-mfg.com saran@saran-mfg.com



CONDENSING UNIT

Saran

Life's Pleasant Breeze



AIR CONDITIONING MFG.GROUP

www.saran-mfg.com
saran@saran-mfg.com

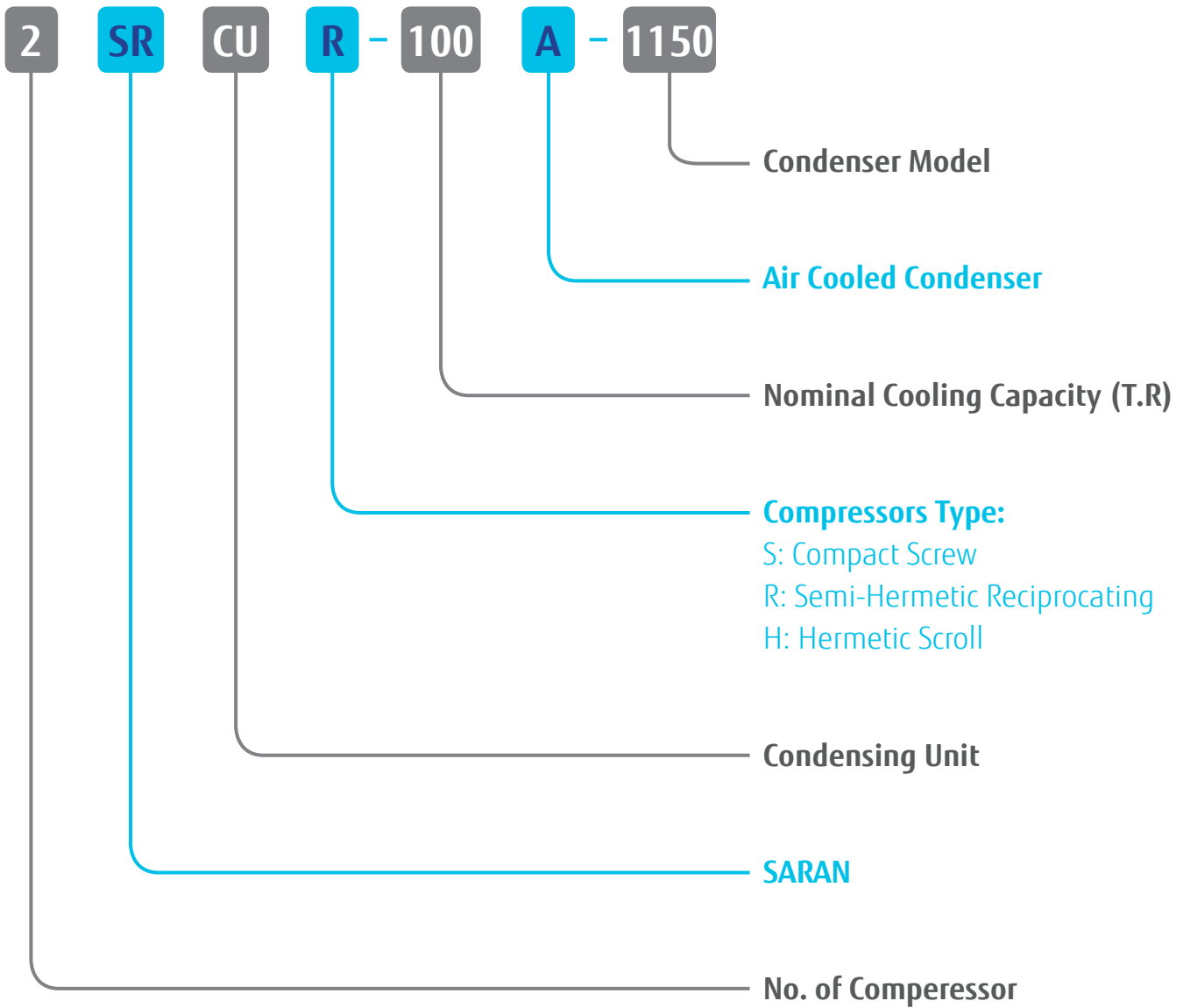


Contents

Nomenclature	4
Introduction	5
Component Features	5
Selection Information	6
Selection Example	6
Performance Data	7
Condensers Performance Data	28
Technical Data	30
Electrical Data	33
Dimensions	42
Installation Recommendation	43
Recommended Piping Diagram	46



NOMENCLATURE





Introduction

Saran air-cooled condensing units are a innovative solution for commercial and industrial applications where installers, consultants and building owner require optimal performances and maximum quality.

Saran air-cooled condensing units are available in the capacity range of 5 to 360 tons of refrigeration in one to four independent refrigerant circuits (For capacities upper than 360 TR please send your inquiry to Saran MFG group). All components of Saran air-cooled condensing units selected from reliable and famous international brands or designed and constructed base on international air-conditioning equipment's standards.

Component Features

Casing:

Suitable heavy gage galvanized steel sheets are used for constructing of Saran air-cooled condensing unit's casing panels. To facilitate installation, the units are mounted on a proper chassis equipped with lifting lugs. The base channels and casings are coated with proper thickness painting for archive to maximum corrosion protection.

Compressor:

Saran air-cooled condensing units available with screw, reciprocating or scroll type compressor, so these units not only cover wide range of cooling capacities and applications, but also can achieved special features base on selected compressor.

Condenser:

The condenser coils are made of staggered rows of 3/8 inches diameter seamless inner grooved copper tube, mechanically expanded into slit aluminum fins to ensure optimum heat exchange capability. The fins have full spacing collars which completely cover each tube. The staggered tube design improves the thermal efficiency of the coil and eliminates bypassing of air around the tubes. A separate sub cooling circuit is standard on all units to maximize energy efficiency.

The condenser coils are designed and constructed base on AHRI standards and equipped with suitable low noise axial fans from well-known international brands, which automatically controlled base on condensing temperature to obtain a satisfactory performance in different ambient conditions. For lower ambient requirements than standard, low ambient temperature starting system (Winter Start) are available upon request.

Refrigerant:

Saran air-cooled condensing unit can be design to operate with R-22, R-407C and R-134a refrigerants, so these units can operating more efficient in wide range of ambient conditions.(in the tropical conditions is suggested to use R-134a)

Safety Protection:

For more efficiency and safe operation of the units, Saran air-cooled condensing units equipped with various safety and operating controls such as, high and low pressure cut out, oil level control, compressor operation time logger, three phase controller, circuit breakers and fault detection system. (Microprocessor based PLC controller is also available upon request). All above-mentioned equipment selected from the most recognized controls manufactures in the air conditioning industry.

Selection Information

General:

Cooling capacity of Saran air-cooled condensing unit models presented in the "Performance Data" tables; cover the most frequently encountered evaporator temperatures.

The air-cooled condensing units are rated over a range of evaporator temperatures of 35°F to 50°F and condensing temperatures of 115°F to 130°F (for R-134a condensing temperatures raised to 140°F).

To select a Saran air-cooled condensing unit, the following information is required:

- 1- Design system load (Btu/h)
- 2- Design evaporator temperature (°F)
- 3- Design ambient temperature (°F)
- 4- Altitude (Feet)

Condensing Temperature:

Generally, considering the condenser temperature of 20°F higher than the ambient temperature (20°F condensing range) is the best compromise for the most economical selection of air-cooled condensers. According to the above suggestion, after selection of air-cooled condensing unit model base on required cooling capacity can referring to condenser performance data tables and select the appropriate condenser model for air-cooled condensing unit.

The Performance tables of condensers in this catalogue are based on sea level altitude and 12 fin per inch of coil fin spacing, so in other conditions, performance adjustment factors shall be attend in condenser selection (See Table 1,2).

Table-1: Fin Arrangement Correction Factor

Coil Fin Spacing (FPI)	Correction Factor
8	0.79
10	0.91
12	1.00

Table-2: Altitude Correction Factor

Altitude (ft)	Correction Factor
0	1.00
1000	0.98
2000	0.97
3000	0.95
4000	0.93
5000	0.92
6000	0.90

Selection Example

Given:

System cooling capacity: 398 MBH
Evaporator Temperature: 45°F
Ambient Air Temperature: 100°F
Altitude = sea level
Refrigerant = R407C
Compressor type = Reciprocating

Solution:

Step 1: Air-cooled condensing unit model selection:

By Assuming 20°F condensing range, our condenser temperature is 120°F, so by referring to the performance data table of air-cooled condensing unit (Reciprocating Compressor – R407C), we can see cooling capacity and total heat rejection of 2SRCUR-80A is 801 and 1011 MBH, respectively (@45°F Evap. Temp. and 120°F Cond. Temp.), so this unit satisfy our requirements.

Step 2: Condenser model selection:

By referring to condensers performance tables (R407C), we can see total heat rejection of 900 from condenser models at 20°F condensing range (@12 FPI Al. fins and sea level) is 1120 MBH; so we select this condenser model for our selected condensing unit.

Finally, according to above data, appropriate model of Saran unitary air-cooled condensing unit in our condition will be 2SRCUR-80A-900.



Performance Data

Table 3a: Performance Data (Scroll Compressor) - R22

Models	Evaporator Temperature	Condensing Temperature											
		115°F			120°F			125°F			130°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
		MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
1SRCUH-5A	35°F	44	3.7	56	42	3.9	55	41	4.1	54	40	4.4	54
	40°F	49	3.7	61	47	3.9	60	46	4.1	59	44	4.4	58
	45°F	54	3.8	66	52	4.0	65	51	4.2	64	49	4.4	63
	50°F	59	3.8	71	57	4.1	70	56	4.3	69	54	4.5	69
1SRCUH-7.5A	35°F	71	5.6	89	68	6.0	88	66	6.3	87	63	6.7	85
	40°F	78	5.6	97	76	6.0	95	73	6.3	94	71	6.7	93
	45°F	87	5.7	105	84	6.0	104	82	6.4	102	79	6.8	101
	50°F	95	5.7	114	93	6.0	113	90	6.4	111	87	6.8	109
1SRCUH-10A	35°F	94	7.4	119	92	7.9	118	89	8.4	116	86	9.0	115
	40°F	104	7.4	128	102	7.9	127	98	8.4	126	95	9.0	125
	45°F	115	7.5	139	112	8.0	137	108	8.5	136	105	9.0	134
	50°F	125	7.6	150	122	8.0	148	119	8.5	146	115	9.0	145
1SRCUH-15A	35°F	138	11.4	175	134	12.1	173	129	12.8	170	123	13.6	167
	40°F	153	11.4	190	148	12.1	188	143	12.8	185	138	13.6	182
	45°F	169	11.5	206	164	12.2	203	159	12.9	200	153	13.6	197
	50°F	186	11.6	223	181	12.2	220	175	12.9	217	169	13.7	213
1SRCUH-20A	35°F	186	15.3	238	180	16.1	235	175	17.0	233	169	17.9	230
	40°F	205	15.4	258	199	16.3	255	193	17.1	252	187	18.1	249
	45°F	226	15.6	280	220	16.4	276	213	17.3	272	207	18.2	269
	50°F	249	15.8	303	242	16.6	299	235	17.5	295	228	18.4	290
1SRCUH-25A	35°F	237	19.1	302	230	20.1	298	222	21.2	294	215	22.3	291
	40°F	263	19.4	329	255	20.4	324	247	21.4	320	239	22.6	316
	45°F	291	19.7	358	282	20.7	353	273	21.7	347	264	22.9	342
	50°F	321	20.0	389	311	21.0	383	302	22.1	377	292	23.2	371
1SRCUH-30A	35°F	287	23.0	365	278	24.2	361	270	25.5	357	261	26.9	353
	40°F	316	23.3	396	308	24.5	391	298	25.8	386	289	27.1	382
	45°F	349	23.6	429	339	24.7	423	329	26.0	418	319	27.4	413
	50°F	383	23.8	464	373	25.0	458	362	26.3	452	352	27.6	446

- NOTE**
- 1MBH = 1000 Btu/hr
 - QE = Actual Cooling Capacity
 - WC = Compressor Motor Power Input (380V,3 ϕ ,50HZ)
 - QC = Condenser Total Heat Rejection
 - Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
 - The above data is subject to change without notice.

Performance Data (Cont.)

Table 3b: Performance Data (Scroll Compressor) - R22

Models	Evaporator Temperature	Condensing Temperature											
		115°F			120°F			125°F			130°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
		MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
2SRCUH-10A	35°F	88	7.3	111	85	7.7	110	82	8.2	108	79	8.7	107
	40°F	97	7.4	121	94	7.8	120	91	8.3	118	88	8.8	117
	45°F	107	7.5	132	104	7.9	130	101	8.4	128	98	8.9	126
	50°F	118	7.7	143	115	8.1	141	111	8.5	139	108	9.0	137
2SRCUH-15A	35°F	141	11.2	178	137	11.9	175	132	12.7	173	127	13.5	170
	40°F	157	11.2	193	152	11.9	191	147	12.7	188	142	13.5	185
	45°F	173	11.3	210	168	12.0	207	163	12.7	204	157	13.5	201
	50°F	191	11.4	228	186	12.1	225	180	12.8	221	174	13.5	218
2SRCUH-20A	35°F	189	14.8	237	184	15.8	235	178	16.8	232	172	17.9	230
	40°F	208	14.9	256	203	15.8	254	197	16.8	251	190	17.9	249
	45°F	229	15.0	277	223	15.9	274	216	16.9	271	210	18.0	268
	50°F	250	15.1	299	244	16.0	296	237	17.0	292	230	18.1	289
2SRCUH-30A	35°F	276	22.7	350	267	24.1	345	257	25.5	339	246	27.1	334
	40°F	306	22.8	380	296	24.2	375	286	25.6	369	275	27.1	363
	45°F	338	23.0	412	328	24.3	406	317	25.7	400	306	27.2	394
	50°F	372	23.1	446	361	24.4	440	350	25.8	434	338	27.3	426
2SRCUH-40A	35°F	371	30.6	475	360	32.2	470	349	34.0	465	338	35.9	460
	40°F	410	30.9	516	398	32.5	509	386	34.3	503	374	36.1	497
	45°F	453	31.2	559	440	32.8	552	427	34.6	545	413	36.4	538
	50°F	498	31.5	605	484	33.2	597	470	34.9	589	455	36.8	581
2SRCUH-50A	35°F	474	38.2	604	459	40.2	596	444	42.3	589	429	44.6	582
	40°F	525	38.8	658	510	40.7	649	493	42.9	640	477	45.1	631
	45°F	581	39.4	716	564	41.4	705	546	43.5	695	529	45.7	685
	50°F	642	40.1	778	623	42.0	766	604	44.1	754	584	46.4	742
2SRCUH-60A	35°F	573	46.1	730	557	48.5	722	540	51.1	714	523	53.8	706
	40°F	633	46.6	792	615	49.0	782	597	51.5	773	578	54.2	763
	45°F	697	47.1	858	678	49.5	847	658	52.0	836	638	54.7	825
	50°F	766	47.7	929	745	50.0	916	724	52.5	904	703	55.2	891
4SRCUH-60A	35°F	552	45.4	700	534	48.2	690	514	51.0	678	492	54.2	668
	40°F	612	45.6	760	592	48.4	750	572	51.2	738	550	54.2	726
	45°F	676	46.0	824	656	48.6	812	634	51.4	800	612	54.4	788
	50°F	744	46.2	892	722	48.8	880	700	51.6	868	676	54.6	852
4SRCUH-80A	35°F	742	61.2	951	720	64.5	940	698	68.0	930	675	71.7	920
	40°F	820	61.8	1031	797	65.0	1019	773	68.5	1007	748	72.3	995
	45°F	905	62.4	1118	880	65.7	1104	853	69.2	1089	826	72.9	1075
	50°F	996	63.1	1211	968	66.4	1194	940	69.8	1178	911	73.5	1162
4SRCUH-100A	35°F	948	76.4	1208	918	80.4	1193	889	84.6	1178	859	89.1	1163
	40°F	1051	77.6	1316	1019	81.5	1297	987	85.7	1280	954	90.2	1262
	45°F	1162	78.8	1432	1128	82.7	1410	1093	86.9	1390	1058	91.4	1369
	50°F	1283	80.1	1556	1246	84.0	1532	1208	88.2	1508	1168	92.7	1485
4SRCUH-120A	35°F	1146	92.2	1460	1113	97.0	1444	1080	102.1	1428	1046	107.6	1413
	40°F	1265	93.2	1583	1230	97.9	1564	1194	103.0	1545	1157	108.5	1527
	45°F	1394	94.2	1715	1356	98.9	1693	1317	104.0	1672	1277	109.4	1650
	50°F	1532	95.3	1857	1491	100.0	1832	1449	105.1	1807	1406	110.4	1783

- NOTE**
- 1MBH = 1000 Btu/hr
 - QE = Actual Cooling Capacity
 - WC = Compressor Motor Power Input (380V,3 ϕ ,50HZ)
 - QC = Condenser Total Heat Rejection
 - Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
 - The above data is subject to change without notice.



Performance Data (Cont.)

Table 4a: Performance Data (Scroll Compressor) - R407C

Models	Evaporator Temperature	Condensing Temperature											
		115°F			120°F			125°F			130°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
		MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
1SRCUH-5A	35°F	44	3.7	55	42	3.9	55	41	4.2	54	39	4.5	54
	40°F	48	3.7	60	47	3.9	59	45	4.2	59	43	4.5	58
	45°F	53	3.7	65	51	3.9	64	50	4.2	63	48	4.5	63
	50°F	58	3.6	70	57	3.9	69	55	4.2	68	53	4.5	67
1SRCUH-7.5A	35°F	70	5.7	88	67	6.1	87	64	6.5	86	61	7.0	84
	40°F	78	5.7	96	75	6.1	95	72	6.5	93	69	7.0	92
	45°F	86	5.7	105	83	6.1	103	80	6.5	102	77	7.0	100
	50°F	95	5.7	114	92	6.1	112	89	6.5	110	86	6.9	108
1SRCUH-10A	35°F	91	7.3	115	88	7.8	113	84	8.4	112	81	8.9	110
	40°F	102	7.4	126	98	7.8	124	94	8.4	122	91	8.9	120
	45°F	113	7.4	137	109	7.9	135	105	8.4	133	101	9.0	130
	50°F	125	7.4	149	121	7.9	147	117	8.4	144	113	9.0	142
1SRCUH-15A	35°F	133	11.3	169	128	12.0	167	123	12.8	164	117	13.6	161
	40°F	149	11.3	185	143	12.0	182	138	12.8	179	132	13.6	176
	45°F	165	11.4	202	160	12.1	199	154	12.8	195	148	13.7	192
	50°F	183	11.4	220	177	12.1	216	171	12.9	212	164	13.7	208
1SRCUH-20A	35°F	178	15.4	230	172	16.3	227	165	17.3	224	159	18.3	221
	40°F	199	15.5	252	192	16.4	248	185	17.4	244	178	18.4	241
	45°F	221	15.6	275	214	16.5	270	206	17.5	266	198	18.6	262
	50°F	246	15.7	299	238	16.7	294	229	17.7	289	221	18.7	285
1SRCUH-25A	35°F	219	18.7	283	212	19.9	280	205	21.1	276	197	22.3	273
	40°F	244	18.9	308	236	20.0	304	228	21.3	300	219	22.6	296
	45°F	270	19.1	335	262	20.2	326	253	21.5	326	244	22.8	322
	50°F	299	19.2	365	290	20.4	360	281	21.7	355	271	23.0	349
1SRCUH-30A	35°F	271	22.9	349	262	24.3	345	252	25.7	340	243	27.2	336
	40°F	301	23.1	380	291	24.5	375	281	25.9	369	270	27.4	364
	45°F	334	23.3	413	323	24.6	407	312	26.1	401	300	27.6	395
	50°F	369	23.5	449	358	24.8	422	345	26.3	435	333	27.8	428

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3 ϕ ,50HZ)
- QC = Condenser Total Heat Rejection
- Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
- The above data is subject to change without notice.

Performance Data (Cont.)

Table 4b: Performance Data (Scroll Compressor) - R407C

Models	Evaporator Temperature	Condensing Temperature											
		115°F			120°F			125°F			130°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
		MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
2SRCUH-10A	35°F	87	7.3	111	84	7.8	110	81	8.4	109	78	9.0	107
	40°F	96	7.3	120	93	7.9	119	90	8.4	117	87	9.0	116
	45°F	106	7.3	130	103	7.9	128	99	8.4	127	96	9.0	125
	50°F	117	7.3	140	113	7.8	138	109	8.4	136	105	9.0	135
2SRCUH-15A	35°F	139	11.5	176	134	12.2	174	129	13.1	171	123	14.0	168
	40°F	155	11.4	192	150	12.2	189	144	13.0	186	138	14.0	183
	45°F	172	11.4	209	167	12.2	206	161	13.0	203	154	13.9	199
	50°F	190	11.4	227	184	12.1	224	178	12.9	220	172	13.8	216
2SRCUH-20A	35°F	182	14.7	230	175	15.7	226	169	16.7	223	162	17.9	220
	40°F	203	14.7	251	196	15.7	247	189	16.7	243	181	17.9	239
	45°F	226	14.8	273	218	15.7	269	210	16.8	265	202	17.9	260
	50°F	250	14.8	298	242	15.8	293	234	16.8	288	225	17.9	283
2SRCUH-30A	35°F	265	22.5	338	255	24.0	333	245	25.5	328	234	27.2	322
	40°F	297	22.6	370	286	24.0	364	275	25.6	358	263	27.2	351
	45°F	330	22.7	404	319	24.1	397	307	25.6	390	295	27.3	383
	50°F	366	22.8	440	354	24.2	432	342	25.7	424	328	27.3	416
2SRCUH-40A	35°F	356	30.7	460	343	32.5	454	330	34.5	448	317	36.6	442
	40°F	397	31.0	503	384	32.8	495	370	34.8	488	355	36.9	481
	45°F	443	31.2	549	427	33.0	540	412	35.0	532	397	37.1	523
	50°F	491	31.4	599	475	33.3	589	458	35.3	579	441	37.4	569
2SRCUH-50A	35°F	438	37.4	565	424	39.7	559	409	42.1	553	394	44.7	546
	40°F	487	37.8	616	472	40.1	608	456	42.5	601	439	45.1	593
	45°F	541	38.1	671	524	40.5	664	506	42.9	653	488	45.5	643
	50°F	598	38.5	730	580	40.8	720	561	43.3	709	541	45.9	698
2SRCUH-60A	35°F	541	45.9	698	523	48.6	689	505	51.4	680	485	54.5	671
	40°F	602	46.2	760	582	48.9	749	562	51.8	738	541	54.9	728
	45°F	668	46.6	827	646	49.3	814	624	52.2	802	601	55.2	789
	50°F	739	46.9	899	715	49.6	844	691	52.5	870	666	55.6	855
4SRCUH-60A	35°F	530	45.0	676	510	48.0	666	490	51.0	656	468	54.4	644
	40°F	594	45.2	740	572	48.0	728	550	51.2	716	526	54.4	702
	45°F	660	45.4	808	638	48.2	794	614	51.2	780	590	54.6	766
	50°F	732	45.6	880	708	48.4	864	684	51.4	848	656	54.6	832
4SRCUH-80A	35°F	711	61.5	921	686	65.1	908	661	69.0	896	635	73.2	884
	40°F	794	61.9	1006	767	65.6	991	739	69.5	976	710	73.7	962
	45°F	885	62.4	1098	855	66.1	1080	824	70.0	1063	793	74.3	1046
	50°F	983	62.8	1197	950	66.6	1177	916	70.6	1157	882	74.9	1138
4SRCUH-100A	35°F	875	74.8	1131	847	79.4	1118	818	84.3	1106	787	89.3	1092
	40°F	974	75.5	1232	943	80.2	1217	911	85.1	1202	878	90.2	1186
	45°F	1081	76.2	1341	1048	80.9	1306	1012	85.8	1306	976	91.0	1287
	50°F	1197	76.9	1459	1160	81.6	1439	1122	86.6	1418	1083	91.9	1396
4SRCUH-120A	35°F	1083	91.8	1396	1046	97.1	1378	1009	102.9	1360	971	109.0	1342
	40°F	1204	92.5	1520	1164	97.8	1498	1124	103.6	1477	1082	109.7	1456
	45°F	1335	93.2	1653	1292	98.6	1628	1247	104.3	1603	1202	110.5	1578
	50°F	1477	93.9	1797	1430	99.3	1688	1381	105.0	1740	1331	111.2	1711

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3 ϕ ,50HZ)
- QC = Condenser Total Heat Rejection
- Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
- The above data is subject to change without notice.



Performance Data (Cont.)

Table 5a: Performance Data (Scroll Compressor) - R134a

Models	Evaporator Temperature	Condensing Temperature																	
		115°F			120°F			125°F			130°F			135°F			140°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	
1SRCUH-5A	35°F	30	2.5	38	29	2.6	37	28	2.8	37	27	3.0	36	26	3.2	36	25	3.3	36
	40°F	33	2.5	41	32	2.7	41	31	2.8	40	30	3.0	40	29	3.2	39	28	3.4	39
	45°F	37	2.5	45	36	2.7	45	35	2.8	44	34	3.0	43	32	3.2	43	31	3.4	42
	50°F	41	2.5	49	40	2.7	49	39	2.8	48	37	3.0	47	36	3.2	47	35	3.4	46
1SRCUH-7.5A	35°F	45	3.9	58	43	4.1	57	41	4.4	56	39	4.7	54	37	5.0	53	35	5.3	52
	40°F	51	3.9	63	49	4.1	62	47	4.4	61	45	4.7	60	43	5.0	59	41	5.3	58
	45°F	57	3.9	70	55	4.1	68	53	4.4	67	51	4.7	66	49	5.0	65	46	5.3	63
	50°F	64	3.9	76	62	4.1	75	59	4.4	74	57	4.7	72	55	5.0	71	52	5.3	69
1SRCUH-10A	35°F	61	5.0	77	59	5.3	76	57	5.6	75	55	5.9	74	53	6.3	73	50	6.7	72
	40°F	68	5.0	85	66	5.3	83	64	5.6	82	62	6.0	81	59	6.3	80	57	6.7	78
	45°F	76	5.0	93	74	5.3	91	72	5.6	90	69	6.0	88	67	6.3	87	64	6.7	86
	50°F	85	5.0	102	82	5.3	100	80	5.6	98	77	6.0	96	74	6.3	95	72	6.7	93
1SRCUH-15A	35°F	91	7.9	149	88	8.4	115	85	8.9	114	81	9.4	112	78	10.0	110	74	10.6	109
	40°F	102	7.9	128	99	8.4	126	95	8.9	124	91	9.4	122	88	10.0	120	84	10.6	118
	45°F	114	8.0	140	110	8.4	138	107	8.9	135	103	9.4	133	98	10.0	131	94	10.6	129
	50°F	127	8.0	153	123	8.5	150	119	8.9	148	115	9.5	145	110	10.0	143	106	10.6	140
1SRCUH-20A	35°F	119	10.7	155	115	11.3	154	111	11.9	152	107	12.5	150	103	13.2	148	99	13.9	147
	40°F	133	10.8	170	129	11.4	168	125	12.0	166	121	12.6	164	116	13.3	162	112	14.0	160
	45°F	150	10.8	187	145	11.4	184	140	12.0	181	135	12.7	178	130	13.4	176	126	14.1	174
	50°F	167	10.9	204	162	11.5	201	157	12.1	198	151	12.7	195	146	13.4	192	141	14.2	189
1SRCUH-25A	35°F	148	13.3	194	144	14.0	191	139	14.8	189	134	15.6	187	129	16.4	185	124	17.3	183
	40°F	167	13.4	212	161	14.1	209	156	14.9	207	150	15.7	204	145	16.6	201	139	17.5	199
	45°F	186	13.5	232	180	14.2	229	174	15.0	226	169	15.8	223	163	16.7	220	156	17.6	217
	50°F	208	13.6	254	201	14.3	250	195	15.1	246	188	16.0	243	182	16.9	239	175	17.8	236
1SRCUH-30A	35°F	187	15.9	241	181	16.8	238	175	17.7	235	169	18.6	232	163	19.6	230	157	20.7	227
	40°F	209	16.0	264	203	16.9	260	196	17.8	257	189	18.7	253	183	19.7	250	176	20.8	247
	45°F	233	16.2	288	226	17.0	284	219	17.9	280	211	18.9	276	204	19.9	272	197	20.9	268
	50°F	259	16.3	315	251	17.1	310	244	18.0	305	236	19.0	300	228	20.0	296	219	21.1	291

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V, 3 ϕ , 50HZ)
- QC = Condenser Total Heat Rejection
- Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
- The above data is subject to change without notice.

Performance Data (Cont.)

Table 5b: Performance Data (Scroll Compressor) - R134a

Models	Evaporator Temperature	Condensing Temperature																	
		115°F			120°F			125°F			130°F			135°F			140°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
		MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
2SRCUH-10A	35°F	59	5.0	75	57	5.3	74	55	5.6	73	53	5.9	73	51	6.3	72	49	6.7	71
	40°F	66	5.0	82	64	5.3	81	62	5.6	80	60	6.0	79	58	6.3	78	56	6.7	77
	45°F	74	5.0	90	72	5.3	89	69	5.6	88	67	6.0	86	65	6.3	85	62	6.7	84
	50°F	82	5.1	99	80	5.4	97	77	5.7	96	75	6.0	94	72	6.4	93	70	6.8	92
2SRCUH-15A	35°F	90	7.8	115	86	8.3	113	83	8.8	111	79	9.3	109	74	9.9	107	70	10.6	104
	40°F	101	7.8	127	98	8.3	124	94	8.8	122	90	9.3	120	85	9.9	118	81	10.6	115
	45°F	114	7.8	139	110	8.3	137	106	8.8	134	102	9.3	132	97	9.9	129	92	10.6	127
	50°F	127	7.8	152	123	8.3	150	119	8.8	147	114	9.3	144	109	9.9	142	105	10.5	139
2SRCUH-20A	35°F	122	10.0	154	118	10.6	152	114	11.2	150	110	11.9	148	105	12.6	146	101	13.3	144
	40°F	137	10.0	169	132	10.6	167	128	11.2	164	123	11.9	162	119	12.6	159	114	13.3	157
	45°F	153	10.1	185	148	10.6	182	143	11.3	179	138	11.9	177	133	12.6	174	128	13.4	171
	50°F	170	10.1	203	165	10.7	199	159	11.3	196	154	11.9	193	149	12.6	190	143	13.4	186
2SRCUH-30A	35°F	182	15.8	298	176	16.7	230	169	17.7	227	162	18.8	223	155	20.0	220	148	21.2	217
	40°F	204	15.9	255	197	16.8	251	190	17.8	248	183	18.8	244	175	20.0	240	168	21.2	236
	45°F	228	15.9	279	220	16.8	275	213	17.8	270	205	18.9	266	197	20.0	262	189	21.2	257
	50°F	253	16.0	305	245	16.9	300	237	17.9	295	229	18.9	290	220	20.0	285	211	21.2	280
2SRCUH-40A	35°F	238	21.4	311	230	22.5	307	222	23.8	303	215	25.0	300	207	26.4	297	199	27.8	294
	40°F	267	21.5	340	258	22.7	336	250	23.9	331	241	25.2	327	232	26.6	323	224	28.0	319
	45°F	299	21.6	373	290	22.8	367	280	24.0	362	270	25.3	357	261	26.7	352	251	28.2	347
	50°F	334	21.8	409	324	22.9	402	313	24.2	396	303	25.5	390	292	26.9	384	281	28.3	378
2SRCUH-50A	35°F	297	26.5	387	287	28.0	383	278	29.5	378	268	31.1	374	258	32.8	370	248	34.6	366
	40°F	333	26.7	424	322	28.2	419	312	29.8	413	301	31.4	408	290	33.1	403	279	34.9	398
	45°F	372	26.9	464	361	28.4	458	349	30.0	451	337	31.7	445	325	33.4	439	313	35.2	433
	50°F	415	27.2	508	402	28.7	500	390	30.3	493	376	31.9	485	363	33.7	478	350	35.6	471
2SRCUH-60A	35°F	374	31.8	482	362	33.5	476	350	35.3	470	338	37.2	465	326	39.2	459	313	41.3	454
	40°F	418	32.1	527	405	33.8	520	392	35.6	513	379	37.5	506	365	39.5	500	351	41.6	493
	45°F	466	32.3	576	452	34.0	568	437	35.8	560	423	37.7	552	408	39.7	544	393	41.9	536
	50°F	518	32.5	629	503	34.2	620	487	36.0	610	471	38.0	601	455	40.0	591	439	42.1	582
4SRCUH-60A	35°F	364	31.6	596	351	33.5	460	338	35.5	454	324	37.6	446	310	39.9	440	296	42.4	434
	40°F	408	31.7	510	394	33.6	502	380	35.6	496	366	37.7	488	350	40.0	480	335	42.4	472
	45°F	456	31.9	558	440	33.7	550	426	35.6	540	410	37.7	532	394	40.0	524	377	42.4	514
	50°F	506	32.0	610	490	33.8	600	474	35.8	590	458	37.8	580	440	40.0	570	422	42.4	560
4SRCUH-80A	35°F	475	42.8	622	460	45.1	614	445	47.6	607	429	50.1	600	413	52.8	593	397	55.6	587
	40°F	534	43.1	681	517	45.4	672	500	47.8	663	482	50.4	654	465	53.1	646	447	56.0	638
	45°F	598	43.3	746	579	45.6	735	560	48.1	724	541	50.7	714	522	53.4	704	502	56.3	694
	50°F	669	43.5	818	648	45.9	804	626	48.4	792	605	51.0	779	584	53.7	767	562	56.6	756
4SRCUH-100A	35°F	594	53.1	775	574	56.0	766	555	59.0	756	536	62.2	748	516	65.6	740	496	69.2	732
	40°F	666	53.5	848	645	56.4	837	623	59.5	826	602	62.8	816	580	66.2	806	558	69.8	796
	45°F	744	53.9	928	721	56.9	915	698	60.0	902	674	63.3	890	650	66.8	878	626	70.5	866
	50°F	830	54.3	1015	805	57.3	1000	779	60.5	986	753	63.9	971	727	67.4	957	700	71.2	943
4SRCUH-120A	35°F	747	63.7	964	724	67.0	952	700	70.6	941	676	74.4	930	651	78.4	919	626	82.6	908
	40°F	836	64.2	1055	810	67.5	1040	784	71.1	1026	757	74.9	1013	730	79.0	1000	703	83.2	987
	45°F	932	64.6	1152	904	68.0	1136	875	71.6	1119	846	75.4	1103	816	79.5	1087	786	83.8	1072
	50°F	1037	65.1	1259	1006	68.5	1239	974	72.1	1220	942	75.9	1201	910	80.0	1183	877	84.3	1165

- NOTE**
- 1MBH = 1000 Btu/hr
 - QE = Actual Cooling Capacity
 - WC = Compressor Motor Power Input (380V,3φ,50HZ)
 - QC = Condenser Total Heat Rejection
 - Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
 - The above data is subject to change without notice.

Performance Data (Cont.)

Table 6a: Performance Data (Reciprocating Compressor) - R22

Models	Evaporator Temperature	Condensing Temperature											
		115°F			120°F			125°F			130°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
		MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
1SRCUR-5A	35°F	48	4.2	62	46	4.4	60	44	4.5	59	43	4.7	58
	40°F	54	4.3	67	52	4.5	66	50	4.7	65	48	4.8	63
	45°F	59	4.4	74	57	4.6	72	55	4.8	71	53	5.0	69
	50°F	66	4.4	80	64	4.7	79	61	4.9	77	59	5.1	76
1SRCUR-7.5A	35°F	73	6.3	93	70	6.6	91	68	6.9	90	65	7.1	88
	40°F	81	6.5	102	78	6.8	100	75	7.1	98	72	7.3	96
	45°F	90	6.6	111	87	6.9	109	84	7.2	107	81	7.5	105
	50°F	99	6.7	121	96	7.0	119	93	7.4	117	89	7.7	114
1SRCUR-10A	35°F	98	8.0	123	94	8.2	121	91	8.5	118	87	8.8	116
	40°F	109	8.2	135	105	8.5	133	102	8.8	130	98	9.1	127
	45°F	121	8.4	148	117	8.7	145	113	9.0	143	109	9.4	140
	50°F	134	8.5	162	130	8.9	159	126	9.3	156	121	9.6	153
1SRCUR-15A	35°F	135	11.1	171	130	11.5	168	126	11.9	164	121	12.2	160
	40°F	151	11.5	188	146	11.9	184	141	12.3	180	135	12.7	177
	45°F	168	11.7	206	162	12.2	202	157	12.7	198	151	13.1	194
	50°F	186	11.9	225	180	12.5	221	174	13.0	216	168	13.5	212
1SRCUR-20A	35°F	159	13.0	201	154	13.5	197	148	14.0	193	143	14.4	189
	40°F	177	13.4	221	171	13.9	217	165	14.4	212	160	14.9	208
	45°F	197	13.7	242	191	14.3	237	184	14.8	232	178	15.4	228
	50°F	219	13.9	264	212	14.6	259	205	15.2	254	198	15.8	249
1SRCUR-25A	35°F	212	17.5	268	204	18.1	263	197	18.8	258	190	19.4	253
	40°F	236	17.9	294	228	18.7	288	220	19.4	283	213	20.1	278
	45°F	262	18.3	321	253	19.1	315	245	19.9	309	237	20.7	304
	50°F	289	18.6	350	281	19.5	344	272	20.4	338	263	21.2	332
1SRCUR-30A	35°F	245	20.1	310	237	20.9	305	229	21.6	299	221	22.4	293
	40°F	273	20.6	340	264	21.5	334	255	22.3	328	247	23.1	321
	45°F	303	21.0	371	293	22.0	364	284	22.9	358	274	23.8	351
	50°F	335	21.4	404	325	22.4	397	314	23.4	390	304	24.4	383
1SRCUR-35A	35°F	317	26.4	403	307	27.4	396	296	28.4	388	285	29.4	381
	40°F	353	27.1	441	342	28.3	433	330	29.4	426	319	30.5	418
	45°F	392	27.8	482	380	29.0	474	367	30.2	465	355	31.4	457
	50°F	434	28.2	526	421	29.6	517	408	31.0	508	394	32.3	499
1SRCUR-40A	35°F	364	30.2	462	352	31.3	453	340	32.4	445	328	33.5	436
	40°F	406	31.0	506	392	32.2	497	379	33.4	488	366	34.6	478
	45°F	450	31.6	553	436	33.0	543	422	34.4	533	408	35.7	523
	50°F	498	32.2	603	483	33.7	592	468	35.1	582	453	36.6	571
1SRCUR-50A	35°F	438	36.6	557	424	37.9	547	409	39.3	537	395	40.6	526
	40°F	488	37.5	609	472	39.0	599	456	40.5	588	441	42.0	577
	45°F	541	38.3	665	524	40.0	654	508	41.6	642	491	43.2	631
	50°F	599	38.9	725	581	40.8	713	563	42.6	701	544	44.3	688
1SRCUR-60A	35°F	514	44.7	659	496	46.4	647	479	48.0	634	461	49.7	622
	40°F	569	45.9	718	550	47.7	705	532	49.4	692	513	51.2	679
	45°F	628	46.9	780	608	48.9	766	588	50.8	753	568	52.7	739
	50°F	691	47.9	846	669	50.0	831	648	52.1	817	626	54.2	802

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3 ϕ ,50HZ)
- QC = Condenser Total Heat Rejection
- Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
- The above data is subject to change without notice.

Performance Data (Cont.)

Table 6b: Performance Data (Reciprocating Compressor) - R22

Models	Evaporator Temperature	Condensing Temperature											
		115°F			120°F			125°F			130°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
		MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
2SRCUR-10A	35°F	96	8.4	123	92	8.7	121	89	9.0	118	85	9.3	116
	40°F	107	8.6	135	103	9.0	132	99	9.3	129	96	9.6	127
	45°F	119	8.8	147	115	9.2	144	111	9.5	141	106	9.9	139
	50°F	132	8.9	161	127	9.3	157	123	9.7	154	118	10.1	151
2SRCUR-15A	35°F	145	12.7	187	140	13.2	183	135	13.7	179	130	14.2	176
	40°F	162	13.0	204	156	13.5	200	150	14.1	196	145	14.7	193
	45°F	180	13.2	222	173	13.8	218	167	14.5	214	161	15.1	210
	50°F	199	13.4	242	192	14.1	238	185	14.7	233	179	15.4	229
2SRCUR-20A	35°F	195	15.9	247	188	16.5	242	182	17.0	237	175	17.5	232
	40°F	218	16.4	271	210	17.0	266	203	17.6	260	196	18.2	255
	45°F	242	16.7	297	234	17.4	291	226	18.1	285	218	18.7	279
	50°F	269	17.0	324	260	17.8	318	251	18.5	312	243	19.2	305
2SRCUR-30A	35°F	270	22.3	343	261	23.0	335	251	23.8	328	241	24.5	321
	40°F	302	22.9	376	291	23.8	369	281	24.6	361	271	25.4	353
	45°F	336	23.5	412	325	24.4	404	314	25.3	396	302	26.2	387
	50°F	373	23.9	450	361	25.0	442	349	26.0	433	337	27.0	424
2SRCUR-40A	35°F	318	26.1	403	307	27.0	395	296	27.9	387	285	28.8	378
	40°F	355	26.8	442	343	27.8	433	331	28.8	425	319	29.8	416
	45°F	394	27.4	483	382	28.6	474	369	29.7	465	356	30.8	456
	50°F	437	27.9	527	423	29.2	518	409	30.4	508	396	31.6	498
2SRCUR-50A	35°F	423	34.9	536	409	36.2	526	395	37.5	516	380	38.8	506
	40°F	471	35.9	587	456	37.3	577	440	38.7	566	425	40.1	555
	45°F	523	36.6	642	507	38.2	630	490	39.8	619	473	41.3	607
	50°F	579	37.3	700	561	39.0	688	543	40.7	675	526	42.4	663
2SRCUR-60A	35°F	490	40.2	620	474	41.7	609	458	43.2	598	442	44.7	587
	40°F	545	41.2	679	528	42.9	667	510	44.6	655	493	46.2	643
	45°F	605	42.1	742	586	44.0	729	567	45.8	716	549	47.6	703
	50°F	669	42.8	808	649	44.8	794	629	46.8	781	609	48.7	767
2SRCUR-70A	35°F	635	52.8	806	613	54.9	791	592	56.9	776	571	58.8	761
	40°F	707	54.3	883	684	56.5	867	661	58.8	851	638	61.0	835
	45°F	785	55.5	964	760	58.0	948	735	60.5	931	710	62.9	914
	50°F	868	56.5	1052	842	59.2	1034	815	61.9	1016	789	64.6	998
2SRCUR-80A	35°F	729	60.3	924	704	62.6	907	680	64.8	890	655	66.9	872
	40°F	811	61.9	1012	785	64.4	994	758	66.9	975	732	69.3	957
	45°F	901	63.3	1106	872	66.0	1086	844	68.7	1066	815	71.3	1047
	50°F	997	64.3	1206	966	67.4	1185	936	70.3	1164	905	73.2	1142
2SRCUR-100A	35°F	877	73.1	1114	848	75.9	1094	818	78.6	1073	789	81.3	1053
	40°F	976	75.0	1219	944	78.1	1197	913	81.1	1176	882	84.0	1154
	45°F	1083	76.6	1331	1049	80.0	1308	1015	83.3	1285	981	86.5	1262
	50°F	1198	77.9	1450	1162	81.6	1426	1125	85.1	1401	1089	88.7	1376
2SRCUR-120A	35°F	1027	89.5	1317	992	92.8	1293	958	96.0	1269	922	99.3	1244
	40°F	1138	91.8	1435	1100	95.4	1410	1063	98.9	1384	1026	102.4	1358
	45°F	1256	93.9	1560	1216	97.8	1533	1176	101.6	1505	1136	105.4	1477
	50°F	1382	95.7	1692	1339	100.0	1663	1296	104.2	1633	1253	108.3	1604

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3 ϕ ,50HZ)
- QC = Condenser Total Heat Rejection
- Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
- The above data is subject to change without notice.



Performance Data (Cont.)

Table 6c: Performance Data (Reciprocating Compressor) - R22

Models	Evaporator Temperature	Condensing Temperature											
		115°F			120°F			125°F			130°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
		MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
4SRCUR-80A	35°F	636	52.1	805	614	54.0	789	592	55.8	773	570	57.6	757
	40°F	710	53.6	883	686	55.7	866	662	57.7	849	638	59.7	832
	45°F	789	54.8	966	763	57.1	948	737	59.4	930	712	61.5	911
	50°F	874	55.8	1055	846	58.3	1036	819	60.8	1016	792	63.2	996
4SRCUR-100A	35°F	846	69.8	1073	818	72.5	1053	789	75.0	1033	761	77.5	1012
	40°F	942	71.7	1175	912	74.6	1153	881	77.5	1132	850	80.2	1110
	45°F	1046	73.3	1284	1013	76.5	1261	980	79.6	1238	947	82.6	1215
	50°F	1158	74.5	1399	1122	78.0	1375	1087	81.4	1351	1051	84.8	1326
4SRCUR-120A	35°F	980	80.4	1241	948	83.5	1218	916	86.5	1196	883	89.4	1173
	40°F	1091	82.4	1358	1056	85.8	1334	1021	89.2	1310	986	92.4	1286
	45°F	1210	84.2	1483	1173	87.9	1457	1135	91.6	1432	1097	95.1	1406
	50°F	1339	85.6	1616	1298	89.6	1589	1258	93.6	1561	1218	97.5	1534
4SRCUR-140A	35°F	1269	105.6	1612	1227	109.7	1582	1184	113.8	1553	1141	117.7	1523
	40°F	1413	108.5	1765	1367	113.1	1734	1321	117.6	1702	1275	121.9	1671
	45°F	1569	111.0	1929	1520	116.0	1896	1470	120.9	1862	1420	125.7	1828
	50°F	1737	113.0	2103	1684	118.5	2068	1630	123.8	2032	1577	129.1	1996
4SRCUR-160A	35°F	1457	120.6	1848	1408	125.2	1814	1359	129.6	1779	1310	133.9	1744
	40°F	1623	123.8	2024	1570	128.8	1987	1517	133.7	1950	1464	138.5	1913
	45°F	1801	126.5	2211	1744	132.0	2172	1687	137.4	2133	1631	142.7	2093
	50°F	1994	128.7	2411	1933	134.7	2369	1872	140.6	2327	1811	146.3	2285
4SRCUR-200A	35°F	1753	146.2	2227	1695	151.8	2187	1637	157.2	2147	1579	162.6	2106
	40°F	1951	150.0	2438	1889	156.2	2395	1826	162.2	2352	1763	168.0	2308
	45°F	2165	153.2	2662	2098	160.0	2616	2030	166.5	2570	1963	173.0	2523
	50°F	2396	155.8	2901	2323	163.1	2852	2250	170.3	2802	2178	177.3	2753
4SRCUR-240A	35°F	2054	179.0	2635	1985	185.5	2586	1915	192.0	2538	1845	198.6	2489
	40°F	2275	183.6	2870	2201	190.7	2819	2126	197.8	2767	2051	204.9	2715
	45°F	2511	187.8	3120	2431	195.6	3065	2351	203.3	3010	2271	210.9	2955
	50°F	2764	191.4	3384	2678	200.0	3326	2592	208.3	3267	2505	216.6	3208

- NOTE**
- 1MBH = 1000 Btu/hr
 - QE = Actual Cooling Capacity
 - WC = Compressor Motor Power Input (380V,3 ϕ ,50HZ)
 - QC = Condenser Total Heat Rejection
 - Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
 - The above data is subject to change without notice.

Performance Data (Cont.)

Table 7a: Performance Data (Reciprocating Compressor) - R407C

Models	Evaporator Temperature	Condensing Temperature											
		115°F			120°F			125°F			130°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
		MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
1SRCUR-5A	35°F	46	4.1	60	44	4.2	58	42	4.3	56	40	4.4	54
	40°F	52	4.3	66	50	4.4	64	47	4.6	62	45	4.7	60
	45°F	59	4.4	73	56	4.6	71	53	4.7	69	51	4.9	67
	50°F	66	4.6	81	63	4.8	78	60	4.9	76	57	5.1	74
1SRCUR-7.5A	35°F	69	6.2	89	66	6.4	87	63	6.5	84	60	6.7	82
	40°F	78	6.4	99	75	6.6	96	71	6.8	93	68	7.0	91
	45°F	88	6.7	109	84	6.9	106	80	7.1	103	76	7.3	100
	50°F	98	6.9	121	94	7.1	117	90	7.4	114	86	7.6	111
1SRCUR-10A	35°F	90	7.5	114	85	7.7	110	81	7.9	107	77	8.1	103
	40°F	101	7.8	126	96	8.0	122	92	8.3	119	87	8.5	115
	45°F	113	8.0	139	108	8.3	135	104	8.6	131	99	8.8	127
	50°F	127	8.2	153	122	8.5	149	116	8.8	145	111	9.1	140
1SRCUR-15A	35°F	124	10.5	158	118	10.8	153	112	11.1	148	106	11.3	143
	40°F	140	10.8	175	133	11.2	170	127	11.5	164	121	11.8	159
	45°F	157	11.2	193	150	11.6	188	143	12.0	182	136	12.3	176
	50°F	176	11.4	213	168	11.9	207	161	12.3	201	153	12.7	195
1SRCUR-20A	35°F	146	12.3	186	139	12.7	181	133	13.0	175	126	13.4	169
	40°F	164	12.7	206	157	13.1	200	150	13.6	194	143	13.9	188
	45°F	185	13.1	227	177	13.6	221	169	14.0	214	161	14.5	208
	50°F	207	13.4	250	198	13.9	243	190	14.4	236	181	14.9	229
1SRCUR-25A	35°F	194	16.6	248	185	17.2	241	177	17.7	234	169	18.1	227
	40°F	218	17.3	274	209	17.9	267	200	18.4	260	191	19.0	252
	45°F	245	17.8	303	235	18.5	295	225	19.2	287	215	19.8	279
	50°F	274	18.3	333	263	19.1	325	252	19.8	316	241	20.5	308
1SRCUR-30A	35°F	228	19.5	291	219	20.1	284	209	20.8	277	200	21.4	269
	40°F	256	20.2	322	246	20.9	314	236	21.6	306	226	22.3	298
	45°F	287	20.8	354	276	21.6	346	265	22.4	337	253	23.2	329
	50°F	320	21.3	389	308	22.2	380	296	23.1	371	284	24.0	362
1SRCUR-35A	35°F	281	24.9	362	269	25.8	353	257	26.6	343	245	27.3	333
	40°F	317	25.8	400	303	26.8	390	290	27.7	380	277	28.6	369
	45°F	355	26.6	441	341	27.8	431	326	28.8	420	312	29.8	408
	50°F	397	27.4	486	382	28.6	474	366	29.8	462	350	30.9	450
1SRCUR-40A	35°F	331	29.3	426	318	30.3	416	304	31.4	406	290	32.3	395
	40°F	372	30.3	470	357	31.5	459	342	32.6	448	327	33.7	436
	45°F	417	31.1	518	400	32.5	506	384	33.7	493	368	34.9	481
	50°F	465	31.9	568	448	33.3	556	430	34.7	542	412	36.1	529
1SRCUR-50A	35°F	389	34.6	501	373	35.8	489	356	36.9	476	339	37.9	462
	40°F	438	35.8	554	420	37.1	540	401	38.4	526	383	39.6	512
	45°F	491	36.9	610	471	38.4	595	451	39.8	580	431	41.2	565
	50°F	548	37.8	671	527	39.5	655	506	41.1	639	484	42.6	622
1SRCUR-60A	35°F	483	43.9	625	463	45.4	610	443	46.8	595	423	48.2	579
	40°F	541	45.3	688	520	47.0	672	498	48.7	656	476	50.3	639
	45°F	605	46.6	756	581	48.5	738	558	50.4	721	534	52.2	703
	50°F	673	47.6	828	648	49.7	809	622	51.8	790	597	53.9	771

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3 ϕ ,50HZ)
- QC = Condenser Total Heat Rejection
- Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
- The above data is subject to change without notice.

Performance Data (Cont.)

Table 7b: Performance Data (Reciprocating Compressor) - R407C

Models	Evaporator Temperature	Condensing Temperature											
		115°F			120°F			125°F			130°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
		MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
2SRCUR-10A	35°F	92	8.2	119	88	8.5	116	84	8.7	112	80	8.9	108
	40°F	104	8.6	132	99	8.9	128	95	9.1	124	90	9.3	120
	45°F	117	8.9	146	112	9.2	142	107	9.5	138	102	9.8	133
	50°F	131	9.2	161	126	9.5	156	120	9.8	152	114	10.2	147
2SRCUR-15A	35°F	139	12.4	179	133	12.7	174	126	13.1	169	120	13.4	163
	40°F	157	12.9	198	150	13.3	193	143	13.7	187	136	14.1	181
	45°F	176	13.3	219	168	13.8	213	160	14.3	207	153	14.7	200
	50°F	197	13.8	241	188	14.3	235	180	14.8	228	172	15.3	221
2SRCUR-20A	35°F	179	15.0	228	171	15.5	221	163	15.9	214	154	16.3	207
	40°F	202	15.5	252	193	16.0	245	184	16.5	237	175	17.0	230
	45°F	227	16.0	278	217	16.6	271	207	17.1	263	197	17.6	254
	50°F	254	16.3	307	243	17.0	298	233	17.6	290	222	18.2	281
2SRCUR-30A	35°F	248	20.9	315	236	21.6	306	224	22.1	296	213	22.6	286
	40°F	279	21.7	349	267	22.4	339	254	23.1	329	241	23.7	318
	45°F	314	22.3	386	300	23.1	375	286	23.9	364	273	24.6	352
	50°F	352	22.9	426	337	23.8	414	322	24.6	402	307	25.4	389
2SRCUR-40A	35°F	292	24.6	372	279	25.4	361	266	26.1	350	252	26.7	339
	40°F	329	25.4	411	315	26.3	400	300	27.1	388	285	27.9	376
	45°F	369	26.1	454	354	27.1	441	338	28.1	429	322	28.9	416
	50°F	413	26.7	500	396	27.8	486	379	28.9	473	362	29.9	459
2SRCUR-50A	35°F	387	33.3	495	371	34.3	482	354	35.3	468	337	36.2	455
	40°F	436	34.5	548	418	35.7	534	400	36.9	519	381	37.9	504
	45°F	490	35.7	605	470	37.0	590	450	38.3	574	430	39.5	558
	50°F	548	36.7	666	526	38.2	650	505	39.6	633	483	41.0	616
2SRCUR-60A	35°F	456	39.0	583	438	40.3	568	419	41.6	554	400	42.8	539
	40°F	513	40.4	643	492	41.8	628	472	43.3	612	451	44.6	596
	45°F	574	41.6	709	552	43.3	692	529	44.8	675	507	46.4	657
	50°F	641	42.6	779	616	44.5	761	592	46.3	742	568	48.0	723
2SRCUR-70A	35°F	563	49.8	724	538	51.5	705	514	53.1	686	490	54.7	667
	40°F	633	51.6	801	607	53.6	781	580	55.5	760	553	57.2	739
	45°F	710	53.3	883	682	55.5	862	653	57.6	839	623	59.6	817
	50°F	794	54.7	972	763	57.2	949	732	59.6	925	700	61.8	900
2SRCUR-80A	35°F	663	58.5	853	636	60.7	833	608	62.7	812	581	64.6	790
	40°F	744	60.5	940	715	62.9	919	685	65.2	896	655	67.3	873
	45°F	833	62.3	1035	801	64.9	1011	768	67.5	987	735	69.9	962
	50°F	930	63.8	1137	895	66.7	1111	860	69.5	1085	824	72.2	1058
2SRCUR-100A	35°F	778	69.1	1002	745	71.5	977	712	73.8	951	679	75.9	925
	40°F	875	71.6	1107	839	74.3	1080	803	76.8	1052	766	79.2	1023
	45°F	981	73.8	1220	942	76.8	1191	902	79.6	1161	863	82.3	1129
	50°F	1097	75.6	1342	1054	79.0	1310	1011	82.1	1278	968	85.2	1244
2SRCUR-120A	35°F	966	87.8	1250	926	90.8	1220	886	93.7	1190	846	96.4	1159
	40°F	1083	90.7	1376	1039	94.1	1344	996	97.3	1311	953	100.5	1278
	45°F	1209	93.1	1511	1162	97.0	1477	1115	100.7	1442	1068	104.3	1406
	50°F	1347	95.2	1655	1296	99.5	1618	1245	103.7	1581	1194	107.8	1543

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3 ϕ ,50HZ)
- QC = Condenser Total Heat Rejection
- Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
- The above data is subject to change without notice.



Performance Data (Cont.)

Table 7c: Performance Data (Reciprocating Compressor) - R407C

Models	Evaporator Temperature	Condensing Temperature											
		115°F			120°F			125°F			130°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
		MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
4SRCUR-80A	35°F	584	49.2	743	558	50.7	722	531	52.1	700	504	53.4	678
	40°F	658	50.8	823	629	52.6	800	600	54.2	776	571	55.7	752
	45°F	738	52.3	908	707	54.2	883	676	56.1	857	644	57.8	831
	50°F	826	53.4	999	792	55.7	973	758	57.8	945	724	59.7	917
4SRCUR-100A	35°F	775	66.5	990	741	68.6	964	708	70.6	937	674	72.5	909
	40°F	873	69.1	1096	836	71.5	1068	800	73.7	1039	763	75.9	1009
	45°F	979	71.3	1210	940	74.1	1180	900	76.6	1148	860	79.0	1116
	50°F	1095	73.3	1333	1052	76.3	1300	1009	79.2	1266	966	81.9	1231
4SRCUR-120A	35°F	913	77.9	1165	875	80.6	1137	838	83.1	1107	800	85.5	1078
	40°F	1025	80.7	1287	984	83.7	1256	944	86.5	1224	902	89.3	1192
	45°F	1148	83.2	1417	1103	86.5	1384	1059	89.7	1350	1014	92.7	1315
	50°F	1281	85.3	1558	1233	89.0	1521	1184	92.5	1484	1136	95.9	1447
4SRCUR-140A	35°F	1125	99.5	1448	1077	103.0	1411	1028	106.3	1373	979	109.3	1333
	40°F	1266	103.3	1601	1214	107.2	1561	1160	111.0	1520	1107	114.4	1478
	45°F	1420	106.6	1766	1363	111.0	1723	1305	115.2	1679	1247	119.2	1633
	50°F	1588	109.5	1943	1526	114.4	1897	1463	119.1	1850	1400	123.6	1801
4SRCUR-160A	35°F	1326	117.1	1705	1272	121.4	1665	1217	125.4	1624	1162	129.3	1581
	40°F	1489	121.0	1881	1429	125.8	1837	1369	130.4	1792	1309	134.7	1746
	45°F	1666	124.5	2070	1602	129.8	2023	1537	134.9	1974	1471	139.7	1924
	50°F	1860	127.5	2274	1790	133.4	2222	1719	139.0	2170	1647	144.3	2115
4SRCUR-200A	35°F	1557	138.3	2005	1491	143.1	1955	1424	147.6	1903	1357	151.8	1849
	40°F	1750	143.2	2215	1679	148.6	2160	1606	153.7	2104	1533	158.4	2046
	45°F	1962	147.5	2440	1884	153.5	2382	1805	159.3	2321	1725	164.6	2259
	50°F	2193	151.2	2683	2108	157.9	2620	2023	164.3	2555	1936	170.3	2488
4SRCUR-240A	35°F	1931	175.7	2501	1852	181.6	2440	1772	187.3	2379	1692	192.8	2318
	40°F	2165	181.4	2753	2078	188.1	2688	1992	194.7	2623	1905	201.1	2557
	45°F	2419	186.3	3022	2324	193.9	2953	2230	201.4	2883	2136	208.7	2813
	50°F	2693	190.4	3310	2591	199.0	3236	2489	207.4	3161	2387	215.6	3086

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3φ,50HZ)
- QC = Condenser Total Heat Rejection
- Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
- The above data is subject to change without notice.

Performance Data (Cont.)

Table 8a: Performance Data (Reciprocating Compressor) - R134a

Models	Evaporator Temperature	Condensing Temperature																	
		115°F			120°F			125°F			130°F			135°F			140°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
		MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
1SRCUR-5A	35°F	48	4.1	61	46	4.2	59	44	4.4	58	41	4.5	56	39	4.6	54	37	4.7	53
	40°F	54	4.3	68	52	4.4	66	49	4.6	64	47	4.7	62	45	4.8	61	43	4.9	59
	45°F	61	4.5	75	58	4.6	73	56	4.8	71	53	4.9	69	51	5.1	67	48	5.2	65
	50°F	68	4.6	83	66	4.8	81	63	5.0	79	60	5.2	77	57	5.3	75	55	5.5	72
1SRCUR-7.5A	35°F	62	5.2	79	59	5.3	77	57	5.5	74	54	5.6	72	51	5.7	69	48	5.8	67
	40°F	71	5.4	88	67	5.6	85	64	5.7	83	61	5.9	80	58	6.0	77	55	6.2	75
	45°F	80	5.6	98	76	5.8	95	73	6.0	92	69	6.2	89	66	6.3	86	62	6.5	83
	50°F	89	5.7	108	86	6.0	105	82	6.2	102	78	6.4	99	74	6.6	96	70	6.8	92
1SRCUR-10A	35°F	86	7.0	109	82	7.2	105	78	7.3	102	74	7.5	98	70	7.6	95	66	7.7	91
	40°F	98	7.3	121	93	7.5	117	89	7.7	114	84	7.9	110	80	8.1	106	75	8.2	102
	45°F	110	7.5	135	105	7.8	131	100	8.0	126	95	8.3	122	91	8.5	118	86	8.7	114
	50°F	124	7.8	149	119	8.1	145	113	8.4	140	108	8.6	136	102	8.9	131	97	9.1	127
1SRCUR-15A	35°F	102	8.3	129	97	8.5	125	92	8.7	121	88	8.9	117	83	9.1	113	79	9.3	109
	40°F	115	8.6	143	110	8.9	139	105	9.2	135	100	9.4	130	95	9.6	126	90	9.8	122
	45°F	130	8.9	159	124	9.3	154	118	9.6	149	113	9.9	145	107	10.1	140	102	10.4	135
	50°F	146	9.2	175	139	9.6	170	133	9.9	165	127	10.3	160	121	10.6	155	115	10.9	150
1SRCUR-20A	35°F	137	11.2	173	131	11.6	169	125	11.9	164	120	12.3	160	114	12.6	155	109	12.9	150
	40°F	154	11.7	191	147	12.1	187	141	12.5	182	135	12.8	177	129	13.2	172	123	13.5	167
	45°F	172	12.1	211	166	12.5	206	159	13.0	201	152	13.4	196	145	13.8	190	139	14.2	185
	50°F	192	12.4	233	185	12.9	227	178	13.4	221	171	13.9	216	163	14.3	210	156	14.8	204
1SRCUR-25A	35°F	154	13.0	196	147	13.4	190	140	13.8	185	133	14.1	179	126	14.4	173	119	14.7	167
	40°F	173	13.6	217	166	14.0	211	158	14.4	205	151	14.8	199	143	15.2	193	136	15.5	186
	45°F	194	14.1	240	186	14.6	234	178	15.1	227	170	15.5	220	162	15.9	214	154	16.3	207
	50°F	217	14.6	265	209	15.2	258	200	15.7	251	191	16.2	244	182	16.7	236	174	17.1	229
1SRCUR-30A	35°F	201	16.8	256	193	17.3	249	185	17.8	242	176	18.3	236	168	18.7	229	159	19.1	221
	40°F	227	17.5	284	218	18.1	276	209	18.7	269	199	19.2	262	190	19.7	254	181	20.2	247
	45°F	255	18.1	314	245	18.8	306	235	19.5	298	225	20.1	290	215	20.7	282	205	21.2	274
	50°F	285	18.7	346	274	19.5	338	264	20.2	329	253	20.9	320	242	21.6	312	231	22.2	303
1SRCUR-35A	35°F	230	19.7	294	221	20.3	287	211	20.9	279	202	21.4	271	192	21.9	263	183	22.4	255
	40°F	259	20.5	326	249	21.2	318	238	21.9	309	228	22.5	301	217	23.1	292	207	23.6	283
	45°F	291	21.4	360	279	22.1	351	268	22.9	342	256	23.6	333	245	24.2	323	233	24.8	314
	50°F	325	22.1	397	313	23.0	387	300	23.8	377	287	24.6	367	275	25.3	357	262	26.0	346
1SRCUR-40A	35°F	278	23.8	355	267	24.5	346	255	25.2	337	244	25.9	328	233	26.5	319	221	27.0	309
	40°F	313	24.8	393	300	25.6	383	288	26.4	373	275	27.1	363	263	27.8	353	250	28.4	343
	45°F	350	25.7	434	337	26.6	423	323	27.5	412	309	28.3	401	296	29.1	390	282	29.8	379
	50°F	391	26.6	477	376	27.6	466	361	28.5	454	347	29.5	442	332	30.3	430	317	31.1	417
1SRCUR-50A	35°F	315	29.0	409	302	29.7	399	289	30.3	388	276	30.9	376	263	31.5	365	250	32.0	354
	40°F	355	30.4	454	341	31.2	442	327	31.9	430	312	32.7	418	298	33.3	406	284	34.0	394
	45°F	399	31.6	501	383	32.6	489	368	33.5	476	352	34.3	463	337	35.1	450	321	35.9	437
	50°F	446	32.7	552	429	33.8	539	412	34.9	525	395	35.9	511	378	36.8	498	362	37.7	484
1SRCUR-60A	35°F	371	34.2	482	355	35.0	469	340	35.7	456	324	36.5	442	309	37.1	429	293	37.7	416
	40°F	417	35.7	533	400	36.7	519	383	37.6	505	366	38.5	491	349	39.3	477	333	40.0	462
	45°F	467	37.2	588	449	38.3	573	431	39.4	558	412	40.4	543	394	41.4	528	375	42.3	512
	50°F	522	38.4	646	502	39.7	631	482	41.0	615	462	42.2	599	442	43.3	582	422	44.4	566

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3 ϕ ,50HZ)
- QC = Condenser Total Heat Rejection
- Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
- The above data is subject to change without notice.

Performance Data (Cont.)

Table 8b: Performance Data (Reciprocating Compressor) - R134a

Models	Evaporator Temperature	Condensing Temperature																	
		115°F			120°F			125°F			130°F			135°F			140°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
		MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
2SRCUR-10A	35°F	95	8.2	122	91	8.5	119	87	8.7	115	83	9.0	112	79	9.2	109	75	9.3	105
	40°F	108	8.6	136	103	8.9	132	99	9.2	129	94	9.4	125	90	9.7	121	85	9.9	117
	45°F	122	8.9	151	117	9.3	147	112	9.6	143	107	9.9	139	102	10.2	135	97	10.4	131
	50°F	137	9.2	167	131	9.6	162	126	10.0	158	120	10.3	154	115	10.6	149	109	10.9	145
2SRCUR-15A	35°F	125	10.3	158	119	10.6	153	113	10.9	148	107	11.2	144	102	11.4	139	96	11.6	134
	40°F	141	10.8	176	135	11.1	171	128	11.5	166	122	11.8	160	116	12.1	155	109	12.3	149
	45°F	159	11.1	195	152	11.6	190	145	12.0	184	138	12.3	178	131	12.7	172	124	13.0	166
	50°F	179	11.5	216	171	12.0	210	163	12.4	204	156	12.9	197	148	13.3	191	141	13.6	185
2SRCUR-20A	35°F	172	13.9	217	164	14.3	210	156	14.7	203	148	15.0	196	140	15.3	189	132	15.5	182
	40°F	195	14.5	242	186	15.0	235	177	15.4	227	168	15.8	220	159	16.1	212	151	16.5	204
	45°F	221	15.1	269	211	15.6	261	201	16.1	253	191	16.6	245	181	17.0	236	171	17.4	228
	50°F	248	15.5	298	237	16.1	289	226	16.7	280	215	17.3	271	205	17.8	262	194	18.2	253
2SRCUR-30A	35°F	204	16.5	257	194	17.0	249	185	17.5	241	176	17.9	233	166	18.2	225	157	18.6	217
	40°F	230	17.2	286	220	17.8	278	210	18.3	269	200	18.8	260	189	19.3	252	179	19.7	243
	45°F	259	17.9	317	248	18.5	308	237	19.1	299	226	19.7	290	214	20.3	280	203	20.8	271
	50°F	291	18.4	351	279	19.2	341	266	19.9	331	254	20.5	321	242	21.2	310	230	21.8	300
2SRCUR-40A	35°F	273	22.4	346	262	23.2	337	251	23.9	328	240	24.5	319	228	25.2	310	217	25.7	301
	40°F	307	23.3	383	295	24.1	373	283	24.9	364	270	25.7	354	258	26.4	344	246	27.1	334
	45°F	344	24.1	422	331	25.0	412	318	25.9	402	304	26.8	391	291	27.6	380	277	28.3	369
	50°F	385	24.8	465	370	25.8	454	356	26.8	443	341	27.8	431	326	28.7	419	312	29.5	408
2SRCUR-50A	35°F	307	26.0	391	294	26.8	380	280	27.5	369	266	28.2	358	252	28.8	346	239	29.4	334
	40°F	346	27.1	434	331	28.0	422	316	28.9	410	301	29.7	398	287	30.4	385	272	31.1	372
	45°F	389	28.2	480	372	29.2	467	356	30.2	454	340	31.1	441	324	31.9	427	308	32.7	414
	50°F	435	29.2	529	417	30.3	516	400	31.4	502	382	32.4	487	365	33.3	473	347	34.2	458
2SRCUR-60A	35°F	403	33.6	511	386	34.6	498	369	35.6	485	353	36.6	471	336	37.5	457	319	38.2	443
	40°F	454	34.9	567	436	36.2	553	417	37.3	538	399	38.4	524	381	39.5	508	362	40.4	493
	45°F	510	36.2	627	490	37.6	612	470	38.9	596	450	40.2	580	430	41.4	564	409	42.4	547
	50°F	571	37.4	692	549	38.9	675	527	40.4	658	505	41.8	641	483	43.2	623	461	44.4	605
2SRCUR-70A	35°F	461	39.4	589	442	40.6	574	423	41.8	558	404	42.8	543	385	43.8	527	366	44.7	511
	40°F	519	41.1	652	498	42.5	636	477	43.8	619	456	45.0	602	435	46.2	585	414	47.2	567
	45°F	582	42.7	720	559	44.3	702	536	45.8	684	513	47.2	666	490	48.4	647	467	49.6	628
	50°F	650	44.2	794	625	46.0	774	600	47.6	755	575	49.2	734	550	50.6	714	524	52.0	693
2SRCUR-80A	35°F	556	47.6	710	533	49.1	692	511	50.5	674	488	51.8	656	465	53.0	637	443	54.0	618
	40°F	625	49.6	786	600	51.2	766	575	52.8	747	550	54.3	726	526	55.6	706	501	56.9	685
	45°F	701	51.4	867	673	53.3	846	646	55.0	824	619	56.7	802	591	58.2	780	564	59.6	757
	50°F	783	53.1	955	753	55.2	932	723	57.1	908	693	58.9	884	663	60.6	860	633	62.2	835
2SRCUR-100A	35°F	631	58.0	819	605	59.4	797	578	60.6	775	552	61.8	753	526	62.9	730	500	64.0	708
	40°F	710	60.7	907	682	62.4	884	653	63.9	861	625	65.3	837	596	66.7	813	568	68.0	788
	45°F	797	63.2	1002	766	65.2	977	735	67.0	952	704	68.7	927	673	70.3	901	642	71.8	875
	50°F	891	65.4	1103	858	67.6	1077	824	69.7	1050	790	71.7	1023	757	73.6	995	723	75.4	968
2SRCUR-120A	35°F	742	68.3	963	711	70.0	938	680	71.5	911	649	72.9	885	618	74.2	858	587	75.4	831
	40°F	834	71.5	1066	800	73.4	1038	767	75.3	1011	733	77.0	982	699	78.6	954	665	80.1	925
	45°F	935	74.3	1176	898	76.6	1146	861	78.8	1117	824	80.8	1086	787	82.7	1056	751	84.5	1025
	50°F	1044	76.8	1293	1004	79.5	1261	964	82.0	1230	924	84.3	1197	884	86.6	1164	844	88.7	1131

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3 ϕ ,50HZ)
- QC = Condenser Total Heat Rejection
- Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
- The above data is subject to change without notice.



Performance Data (Cont.)

Table 8c: Performance Data (Reciprocating Compressor) - R134a

Models	Evaporator Temperature	Condensing Temperature																	
		115°F			120°F			125°F			130°F			135°F			140°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	
4SRCUR-80A	35°F	546	44.9	692	524	46.4	674	501	47.8	656	479	49.1	638	457	50.3	620	434	51.5	601
	40°F	614	46.6	765	590	48.3	746	566	49.9	727	541	51.4	708	516	52.8	688	492	54.1	667
	45°F	689	48.2	845	662	50.1	824	635	51.8	803	609	53.5	782	582	55.1	760	555	56.7	738
	50°F	770	49.6	930	741	51.7	908	711	53.6	885	682	55.5	862	653	57.3	839	624	59.1	815
4SRCUR-100A	35°F	614	51.9	783	587	53.5	761	560	55.0	738	532	56.4	715	505	57.7	692	478	58.8	668
	40°F	692	54.2	868	663	56.0	844	633	57.7	820	603	59.3	795	573	60.8	770	543	62.1	745
	45°F	777	56.4	960	745	58.4	934	713	60.3	908	680	62.1	882	648	63.8	854	615	65.4	827
4SRCUR-120A	35°F	805	67.1	1023	772	69.3	997	739	71.3	970	705	73.2	942	671	74.9	914	638	76.5	886
	40°F	908	69.9	1134	871	72.4	1106	835	74.7	1077	798	76.9	1047	761	78.9	1017	724	80.8	986
	45°F	1019	72.4	1254	980	75.2	1224	940	77.9	1192	899	80.4	1160	859	82.7	1127	819	84.9	1094
	50°F	1141	74.7	1383	1098	77.9	1350	1054	80.8	1316	1010	83.7	1282	966	86.3	1246	923	88.8	1210
4SRCUR-140A	35°F	922	78.7	1177	884	81.2	1147	846	83.5	1116	808	85.7	1085	769	87.6	1054	731	89.4	1021
	40°F	1038	82.2	1304	996	85.0	1271	954	87.6	1238	912	90.1	1204	870	92.3	1169	828	94.4	1134
	45°F	1164	85.4	1441	1118	88.6	1405	1072	91.5	1368	1026	94.3	1331	980	96.9	1294	933	99.3	1255
	50°F	1301	88.4	1588	1251	91.9	1549	1200	95.2	1509	1150	98.4	1469	1099	101.3	1428	1049	104.0	1386
4SRCUR-160A	35°F	1112	95.2	1420	1067	98.2	1385	1021	101.0	1349	976	103.5	1312	931	105.9	1274	886	108.1	1236
	40°F	1250	99.1	1571	1200	102.5	1533	1151	105.6	1493	1101	108.5	1453	1051	111.2	1412	1001	113.7	1370
	45°F	1401	102.8	1734	1347	106.5	1692	1292	110.0	1649	1237	113.3	1605	1183	116.4	1560	1128	119.2	1514
	50°F	1565	106.2	1910	1506	110.3	1863	1446	114.2	1816	1386	117.9	1768	1326	121.3	1719	1266	124.5	1670
4SRCUR-200A	35°F	1262	116.0	1638	1209	118.8	1594	1157	121.3	1550	1105	123.7	1505	1052	125.9	1460	1000	128.0	1415
	40°F	1421	121.5	1815	1364	124.7	1768	1307	127.8	1721	1250	130.7	1673	1193	133.4	1625	1136	135.9	1577
	45°F	1594	126.5	2004	1532	130.3	1955	1470	133.9	1904	1408	137.3	1853	1346	140.5	1802	1285	143.6	1750
	50°F	1783	130.9	2207	1716	135.3	2154	1648	139.5	2100	1581	143.5	2046	1513	147.3	1991	1446	150.9	1935
4SRCUR-240A	35°F	1483	136.7	1926	1421	139.9	1875	1359	143.0	1823	1297	145.8	1770	1235	148.4	1716	1173	150.9	1662
	40°F	1668	143.0	2132	1601	146.9	2077	1533	150.5	2021	1465	154.0	1964	1398	157.1	1907	1330	160.1	1849
	45°F	1869	148.7	2351	1796	153.3	2293	1722	157.6	2233	1649	161.6	2172	1575	165.4	2111	1501	169.0	2049
	50°F	2088	153.6	2585	2008	158.9	2523	1928	163.9	2459	1848	168.7	2394	1768	173.2	2329	1688	177.4	2263

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V, 3 ϕ , 50HZ)
- QC = Condenser Total Heat Rejection
- Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
- The above data is subject to change without notice.



Performance Data (Cont.)

Table 9a: Performance Data (Screw Compressor) - R22

Models	Evaporator Temperature	Condensing Temperature											
		115°F			120°F			125°F			130°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
		MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
1SRCUS-50A	35°F	373	33.7	476	360	35.5	469	347	37.4	462	334	39.5	455
	40°F	413	34.5	518	399	36.4	511	385	38.4	503	371	40.6	496
	45°F	455	35.2	563	441	37.2	555	426	39.4	547	412	41.6	539
	50°F	501	35.8	611	486	37.9	602	470	40.2	594	455	42.6	586
1SRCUS-60A	35°F	468	41.8	596	452	44.0	587	435	46.4	578	419	49.0	569
	40°F	518	42.8	649	501	45.2	639	483	47.7	630	466	50.3	621
	45°F	571	43.7	705	553	46.2	695	535	48.8	685	517	51.6	675
	50°F	629	44.4	765	610	47.1	754	590	49.9	744	571	52.8	733
1SRCUS-70A	35°F	543	50.3	697	520	53.0	683	497	55.8	669	473	58.8	653
	40°F	600	51.3	758	577	54.1	743	552	56.9	726	526	59.9	710
	45°F	662	52.4	823	637	55.2	806	610	58.1	789	583	61.1	771
	50°F	728	53.6	893	702	56.3	875	674	59.3	856	645	62.3	836
1SRCUS-80A	35°F	628	56.6	802	601	59.5	784	573	62.5	765	544	65.7	746
	40°F	694	57.8	872	665	60.7	852	635	63.8	831	604	67.0	810
	45°F	765	59.1	947	735	62.1	925	703	65.1	903	670	68.3	880
	50°F	841	60.6	1028	809	63.6	1004	775	66.7	980	740	69.9	955
1SRCUS-90A	35°F	761	65.3	961	731	68.8	943	701	72.4	923	669	76.2	903
	40°F	838	66.5	1042	807	70.0	1022	774	73.7	1001	740	77.5	978
	45°F	921	67.8	1129	888	71.3	1107	854	75.1	1084	817	79.0	1060
	50°F	1010	69.1	1222	975	72.7	1198	938	76.5	1173	900	80.5	1147

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3 ϕ ,50HZ)
- QC = Condenser Total Heat Rejection
- Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
- The above data is subject to change without notice.

Performance Data (Cont.)

Table 9b: Performance Data (Screw Compressor) - R22

Models	Evaporator Temperature	Condensing Temperature											
		115°F			120°F			125°F			130°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
		MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
2SRCUS-100A	35°F	745	67.4	952	720	71.0	938	694	74.8	924	667	78.9	910
	40°F	825	69.0	1037	798	72.8	1021	770	76.8	1006	742	81.1	991
	45°F	911	70.4	1127	882	74.5	1110	853	78.7	1094	823	83.2	1079
	50°F	1002	71.5	1222	972	75.9	1205	941	80.4	1188	910	85.2	1171
2SRCUS-120A	35°F	935	83.6	1192	903	88.1	1174	871	92.9	1156	838	98.0	1139
	40°F	1035	85.6	1298	1001	90.3	1279	967	95.3	1260	932	100.6	1241
	45°F	1143	87.3	1411	1107	92.4	1390	1070	97.7	1370	1033	103.2	1350
	50°F	1258	88.7	1530	1220	94.1	1509	1181	99.8	1487	1142	105.7	1466
2SRCUS-140A	35°F	1085	100.6	1394	1041	106.0	1366	994	111.7	1337	945	117.7	1306
	40°F	1200	102.7	1516	1153	108.1	1485	1103	113.8	1453	1051	119.8	1419
	45°F	1324	104.9	1646	1274	110.3	1612	1221	116.1	1578	1166	122.2	1541
	50°F	1456	107.1	1785	1403	112.7	1749	1347	118.5	1711	1289	124.6	1672
2SRCUS-160A	35°F	1256	113.2	1604	1202	119.0	1567	1146	125.1	1530	1087	131.5	1491
	40°F	1388	115.6	1743	1331	121.4	1704	1271	127.5	1663	1209	133.9	1620
	45°F	1530	118.3	1894	1469	124.1	1850	1406	130.2	1806	1339	136.7	1759
	50°F	1683	121.3	2055	1618	127.1	2008	1550	133.3	1960	1480	139.8	1909
2SRCUS-180A	35°F	1521	130.6	1922	1463	137.5	1885	1401	144.8	1846	1337	152.4	1805
	40°F	1676	133.1	2085	1614	140.0	2044	1549	147.4	2001	1481	155.1	1957
	45°F	1842	135.6	2259	1776	142.7	2214	1707	150.1	2168	1635	157.9	2120
	50°F	2020	138.3	2445	1950	145.5	2397	1877	153.0	2347	1801	161.0	2295
4SRCUS-200A	35°F	1490	134.8	1904	1439	142.0	1875	1388	149.7	1847	1335	157.9	1820
	40°F	1650	138.0	2074	1596	145.6	2043	1541	153.7	2013	1485	162.2	1983
	45°F	1821	140.8	2254	1764	148.9	2221	1705	157.4	2189	1646	166.4	2157
	50°F	2005	143.0	2444	1944	151.7	2410	1882	160.8	2376	1819	170.3	2342
4SRCUS-240A	35°F	1871	167.2	2384	1807	176.2	2348	1742	185.7	2312	1676	195.9	2278
	40°F	2071	171.2	2596	2003	180.7	2558	1934	190.7	2520	1864	201.3	2482
	45°F	2285	174.7	2822	2213	184.8	2781	2140	195.4	2740	2066	206.5	2700
	50°F	2516	177.5	3061	2439	188.3	3017	2362	199.5	2975	2284	211.3	2933
4SRCUS-280A	35°F	2171	201.2	2789	2082	212.0	2733	1988	223.3	2674	1890	235.3	2613
	40°F	2401	205.4	3032	2306	216.2	2970	2207	227.6	2906	2103	239.7	2839
	45°F	2648	209.7	3292	2547	220.7	3225	2442	232.2	3155	2332	244.4	3082
	50°F	2913	214.2	3571	2806	225.3	3498	2695	237.0	3423	2578	249.3	3344
4SRCUS-320A	35°F	2512	226.4	3208	2404	238.0	3135	2292	250.2	3060	2175	263.0	2982
	40°F	2777	231.2	3487	2662	242.8	3407	2542	255.0	3325	2417	267.8	3240
	45°F	3061	236.5	3787	2938	248.2	3701	2811	260.5	3611	2679	273.3	3518
	50°F	3366	242.5	4110	3236	254.3	4017	3101	266.6	3919	2960	279.5	3819
4SRCUS-360A	35°F	3043	261.3	3845	2925	275.0	3770	2803	289.5	3692	2674	304.8	3610
	40°F	3352	266.1	4170	3228	280.0	4088	3098	294.7	4003	2961	310.1	3914
	45°F	3684	271.2	4517	3552	285.3	4429	3414	300.2	4336	3270	315.9	4240
	50°F	4040	276.5	4889	3900	290.9	4793	3754	306.1	4694	3601	322.0	4590

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3 ϕ ,50HZ)
- QC = Condenser Total Heat Rejection
- Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
- The above data is subject to change without notice.



Performance Data (Cont.)

Table 10a: Performance Data (Screw Compressor) - R407C

Models	Evaporator Temperature	Condensing Temperature											
		115°F			120°F			125°F			130°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
		MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
1SRCUS-50A	35°F	365	33.1	470	347	34.9	458	329	36.9	447	311	39.0	434
	40°F	407	33.8	514	389	35.7	502	369	37.7	489	349	39.8	476
	45°F	453	34.6	563	434	36.5	549	413	38.5	535	392	40.6	520
	50°F	503	35.5	616	482	37.4	601	460	39.3	585	438	41.4	569
1SRCUS-60A	35°F	458	41.0	588	436	43.4	574	414	45.8	559	390	48.4	544
	40°F	511	42.0	644	488	44.3	629	464	46.8	613	439	49.4	596
	45°F	569	43.0	705	544	45.3	688	519	47.8	671	492	50.4	652
1SRCUS-70A	35°F	532	47.7	683	505	50.4	665	478	53.2	647	451	56.3	630
	40°F	596	48.6	750	567	51.2	729	537	54.0	709	508	57.0	688
	45°F	665	49.5	822	634	52.1	799	602	54.9	776	569	57.8	753
	50°F	741	50.5	901	707	53.0	875	672	55.7	849	637	58.6	823
1SRCUS-80A	35°F	604	53.7	775	573	56.4	752	541	59.3	729	509	62.4	707
	40°F	677	55.2	852	642	57.9	826	607	60.7	800	572	63.7	774
	45°F	755	57.0	936	718	59.5	906	680	62.3	877	641	65.2	848
	50°F	840	58.9	1027	800	61.4	995	758	64.0	962	717	66.9	929
1SRCUS-90A	35°F	702	61.8	898	667	65.3	875	632	69.0	852	597	73.0	829
	40°F	782	63.0	982	745	66.5	956	707	70.2	929	668	74.2	903
	45°F	869	64.4	1074	829	67.8	1044	787	71.5	1014	745	75.4	984
	50°F	964	65.8	1173	920	69.2	1139	875	72.9	1106	829	76.7	1072

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3 ϕ ,50HZ)
- QC = Condenser Total Heat Rejection
- Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
- The above data is subject to change without notice.

Performance Data (Cont.)

Table 10b: Performance Data (Screw Compressor) - R407C

Models	Evaporator Temperature	Condensing Temperature											
		115°F			120°F			125°F			130°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
		MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
2SRCUS-100A	35°F	729	66.1	939	695	69.9	917	659	73.9	893	621	78.0	869
	40°F	814	67.7	1029	777	71.4	1004	739	75.4	978	699	79.5	951
	45°F	906	69.3	1126	867	73.0	1099	826	77.0	1070	783	81.1	1041
	50°F	1006	71.0	1231	964	74.7	1201	921	78.7	1170	875	82.9	1138
2SRCUS-120A	35°F	916	82.1	1176	873	86.7	1148	828	91.6	1119	781	96.8	1088
	40°F	1022	84.0	1289	976	88.6	1257	928	93.5	1225	878	98.7	1192
	45°F	1138	86.0	1411	1089	90.6	1376	1038	95.5	1341	985	100.7	1304
	50°F	1263	88.1	1543	1211	92.7	1505	1157	97.6	1467	1100	102.8	1427
2SRCUS-140A	35°F	1064	95.4	1367	1011	100.8	1331	957	106.5	1295	902	112.6	1260
	40°F	1191	97.2	1500	1134	102.4	1459	1075	108.1	1418	1015	114.0	1377
	45°F	1330	99.1	1645	1268	104.2	1598	1204	109.7	1552	1139	115.6	1505
	50°F	1482	101.1	1802	1414	106.1	1750	1344	111.5	1698	1274	117.2	1645
2SRCUS-160A	35°F	1209	107.4	1550	1146	112.8	1504	1082	118.7	1459	1018	124.9	1414
	40°F	1353	110.4	1703	1284	115.7	1651	1215	121.4	1600	1144	127.4	1549
	45°F	1510	113.9	1872	1435	119.0	1813	1359	124.5	1754	1282	130.4	1696
	50°F	1681	117.9	2055	1599	122.8	1989	1517	128.1	1923	1433	133.8	1858
2SRCUS-180A	35°F	1403	123.6	1795	1335	130.6	1749	1265	138.1	1703	1194	146.1	1657
	40°F	1564	126.1	1964	1489	133.0	1912	1413	140.5	1859	1335	148.4	1806
	45°F	1739	128.8	2147	1657	135.6	2088	1574	143.0	2028	1489	150.8	1968
	50°F	1928	131.7	2345	1839	138.5	2279	1749	145.7	2212	1657	153.5	2144
4SRCUS-200A	35°F	1459	132.3	1879	1390	139.8	1833	1318	147.7	1786	1242	156.1	1737
	40°F	1628	135.3	2058	1555	142.8	2008	1478	150.7	1956	1397	159.1	1902
	45°F	1813	138.5	2252	1734	146.0	2198	1652	153.9	2141	1567	162.3	2082
	50°F	2012	142.0	2463	1929	149.5	2403	1842	157.4	2341	1751	165.7	2277
4SRCUS-240A	35°F	1831	164.2	2352	1745	173.5	2296	1655	183.3	2237	1561	193.7	2176
	40°F	2044	167.9	2577	1953	177.2	2515	1857	187.0	2450	1757	197.4	2383
	45°F	2276	171.9	2821	2178	181.2	2753	2076	191.0	2682	1969	201.4	2608
	50°F	2526	176.2	3085	2422	185.5	3011	2314	195.3	2933	2201	205.7	2853
4SRCUS-280A	35°F	2127	190.9	2733	2022	201.6	2661	1914	213.0	2590	1805	225.1	2519
	40°F	2383	194.4	2999	2267	204.9	2917	2149	216.1	2835	2030	228.1	2754
	45°F	2661	198.1	3289	2535	208.4	3197	2407	219.4	3103	2277	231.2	3011
	50°F	2963	202.1	3605	2827	212.2	3500	2688	222.9	3396	2547	234.4	3291
4SRCUS-320A	35°F	2418	214.8	3099	2292	225.7	3008	2165	237.3	2918	2036	249.7	2829
	40°F	2706	220.9	3407	2568	231.4	3303	2429	242.7	3199	2288	254.8	3097
	45°F	3020	227.8	3743	2870	238.1	3626	2718	249.0	3509	2565	260.7	3392
	50°F	3361	235.8	4110	3199	245.6	3978	3034	256.2	3847	2867	267.5	3716
4SRCUS-360A	35°F	2807	247.2	3591	2670	261.2	3499	2530	276.2	3406	2387	292.1	3314
	40°F	3128	252.2	3928	2979	266.1	3823	2826	280.9	3718	2671	296.8	3612
	45°F	3477	257.5	4295	3315	271.3	4176	3149	286.0	4056	2979	301.7	3936
	50°F	3855	263.4	4691	3679	276.9	4557	3498	291.5	4423	3314	307.0	4288

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3 ϕ ,50HZ)
- QC = Condenser Total Heat Rejection
- Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
- The above data is subject to change without notice.



Performance Data (Cont.)

Table 11a: Performance Data (Screw Compressor) - R134a

Models	Evaporator Temperature	Condensing Temperature																	
		115°F			120°F			125°F			130°F			135°F			140°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
		MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
1SRCUS-50A	35°F	360	30.6	459	344	32.4	449	328	34.2	439	312	36.2	430	296	38.4	420	279	40.7	411
	40°F	405	31.2	507	389	33.0	495	371	34.8	484	354	36.8	473	336	39.0	462	318	41.3	451
	45°F	456	31.9	559	437	33.7	546	418	35.5	534	399	37.5	521	380	39.7	508	360	41.9	496
	50°F	510	32.7	616	490	34.4	602	470	36.3	588	449	38.3	573	428	40.4	559	406	42.7	544
1SRCUS-60A	35°F	424	35.3	538	406	37.3	527	387	39.4	515	368	41.8	504	349	44.2	493	330	46.9	482
	40°F	478	36.0	594	458	38.0	581	438	40.2	568	417	42.5	555	396	44.9	542	375	47.6	529
	45°F	537	36.8	656	515	38.8	641	493	40.9	626	471	43.2	611	448	45.7	596	425	48.3	581
	50°F	601	37.7	723	578	39.7	706	554	41.8	689	529	44.1	672	504	46.6	655	479	49.2	638
1SRCUS-70A	35°F	487	40.1	617	466	42.4	604	445	44.8	591	424	47.5	577	402	50.3	565	380	53.3	552
	40°F	549	40.9	682	526	43.2	666	503	45.6	651	480	48.3	636	456	51.1	621	431	54.1	607
	45°F	617	41.8	752	592	44.1	735	567	46.5	718	541	49.1	700	515	51.9	683	488	54.9	666
	50°F	690	42.9	829	664	45.1	810	636	47.5	790	608	50.1	771	580	52.9	751	551	55.9	732
1SRCUS-80A	35°F	595	48.8	754	573	51.7	741	551	54.7	728	528	58.1	716	505	61.7	705	481	65.6	694
	40°F	668	49.8	830	645	52.6	815	621	55.6	801	596	59.0	787	571	62.6	774	545	66.5	761
	45°F	748	50.7	912	722	53.5	896	696	56.6	880	670	59.9	864	643	63.5	849	616	67.4	834
	50°F	834	51.8	1002	807	54.5	984	779	57.6	966	751	60.9	948	722	64.5	931	692	68.4	914
1SRCUS-90A	35°F	686	55.7	866	661	58.9	852	635	62.4	837	609	66.2	823	582	70.3	810	555	74.8	797
	40°F	770	56.7	954	743	59.9	937	715	63.4	921	687	67.2	905	658	71.3	889	629	75.8	874
	45°F	861	57.8	1049	832	61.0	1030	803	64.5	1012	772	68.3	993	741	72.4	976	710	76.9	959
	50°F	961	59.0	1152	930	62.2	1131	898	65.6	1110	865	69.4	1090	832	73.5	1070	798	78.0	1051

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V, 3 ϕ , 50HZ)
- QC = Condenser Total Heat Rejection
- Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
- The above data is subject to change without notice.

Performance Data (Cont.)

Table 11b: Performance Data (Screw Compressor) - R134a

Models	Evaporator Temperature	Condensing Temperature																	
		115°F			120°F			125°F			130°F			135°F			140°F		
		QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
		MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
2SRCUS-100A	35°F	719	61.3	918	688	64.7	898	656	68.5	878	624	72.5	859	592	76.8	840	558	81.3	822
	40°F	811	62.5	1013	777	66.0	991	742	69.7	968	707	73.7	946	671	78.0	924	635	82.5	903
	45°F	911	63.9	1118	874	67.3	1093	837	71.1	1067	798	75.0	1041	759	79.3	1016	719	83.9	991
	50°F	1021	65.4	1233	981	68.9	1204	940	72.6	1175	898	76.5	1146	855	80.8	1117	812	85.3	1089
2SRCUS-120A	35°F	848	70.6	1076	811	74.6	1053	774	78.9	1030	737	83.5	1007	699	88.4	985	660	93.7	964
	40°F	955	72.0	1189	916	76.0	1162	876	80.3	1136	834	84.9	1110	792	89.8	1084	750	95.1	1058
	45°F	1073	73.6	1312	1030	77.6	1282	986	81.9	1252	941	86.5	1222	896	91.4	1192	849	96.6	1162
	50°F	1202	75.4	1446	1155	79.4	1413	1107	83.6	1379	1059	88.2	1344	1009	93.1	1311	958	98.3	1277
2SRCUS-140A	35°F	974	80.2	1234	933	84.8	1208	890	89.7	1181	847	94.9	1155	803	100.5	1129	759	106.5	1105
	40°F	1098	81.8	1363	1053	86.4	1333	1006	91.3	1302	959	96.5	1272	911	102.1	1242	863	108.1	1213
	45°F	1233	83.7	1505	1184	88.2	1470	1134	93.1	1435	1082	98.3	1401	1030	103.9	1366	977	109.8	1333
	50°F	1381	85.7	1659	1327	90.2	1620	1273	95.1	1581	1217	100.3	1542	1160	105.8	1503	1102	111.8	1464
2SRCUS-160A	35°F	1190	97.7	1507	1147	103.3	1482	1102	109.5	1457	1056	116.1	1433	1010	123.4	1409	962	131.2	1387
	40°F	1336	99.5	1659	1289	105.1	1630	1241	111.3	1602	1192	117.9	1574	1142	125.2	1547	1091	133.0	1522
	45°F	1495	101.4	1824	1445	107.1	1792	1393	113.2	1760	1340	119.8	1728	1286	127.0	1698	1231	134.9	1668
	50°F	1668	103.5	2004	1614	109.1	1967	1558	115.2	1931	1501	121.8	1896	1443	129.0	1862	1385	136.8	1828
2SRCUS-180A	35°F	1372	111.3	1733	1321	117.8	1703	1270	124.8	1674	1217	132.4	1646	1164	140.6	1620	1110	149.5	1594
	40°F	1540	113.4	1908	1486	119.8	1874	1430	126.8	1841	1374	134.4	1809	1316	142.6	1779	1258	151.6	1749
	45°F	1723	115.6	2098	1665	122.0	2060	1605	129.0	2023	1544	136.5	1987	1482	144.8	1952	1419	153.7	1918
	50°F	1922	118.0	2304	1859	124.3	2262	1795	131.2	2221	1730	138.8	2180	1663	147.0	2140	1596	155.9	2101
4SRCUS-200A	35°F	1438	122.5	1835	1376	129.5	1796	1313	136.9	1757	1248	144.9	1718	1183	153.5	1681	1117	162.7	1644
	40°F	1622	125.0	2027	1554	131.9	1982	1485	139.4	1937	1414	147.4	1892	1343	155.9	1848	1270	165.1	1805
	45°F	1822	127.8	2236	1749	134.7	2185	1673	142.1	2134	1596	150.1	2083	1518	158.6	2032	1439	167.8	1982
	50°F	2041	130.9	2465	1961	137.8	2408	1879	145.2	2350	1796	153.1	2292	1711	161.6	2234	1624	170.7	2177
4SRCUS-240A	35°F	1695	141.2	2153	1623	149.2	2106	1549	157.8	2060	1473	167.0	2015	1397	176.9	1970	1320	187.4	1927
	40°F	1911	144.0	2378	1832	152.0	2325	1751	160.6	2272	1669	169.8	2219	1585	179.7	2167	1500	190.2	2116
	45°F	2147	147.2	2624	2061	155.2	2564	1973	163.8	2504	1883	172.9	2443	1791	182.8	2384	1698	193.3	2325
	50°F	2404	150.8	2893	2311	158.8	2825	2215	167.3	2757	2117	176.4	2689	2017	186.2	2621	1916	196.7	2554
4SRCUS-280A	35°F	1948	160.4	2468	1865	169.6	2415	1781	179.3	2362	1694	189.8	2310	1607	201.0	2259	1519	213.0	2209
	40°F	2196	163.7	2727	2106	172.8	2666	2013	182.5	2605	1918	193.0	2544	1823	204.2	2485	1725	216.2	2426
	45°F	2467	167.3	3009	2368	176.4	2940	2267	186.1	2871	2164	196.6	2801	2060	207.7	2733	1953	219.7	2665
	50°F	2762	171.4	3318	2655	180.4	3240	2545	190.1	3162	2433	200.5	3083	2319	211.6	3005	2203	223.5	2928
4SRCUS-320A	35°F	2381	195.4	3014	2293	206.7	2963	2203	219.0	2913	2112	232.3	2865	2019	246.7	2819	1924	262.4	2775
	40°F	2673	199.0	3318	2579	210.3	3260	2482	222.5	3204	2384	235.9	3148	2284	250.3	3095	2182	266.0	3044
	45°F	2991	202.9	3649	2890	214.1	3584	2786	226.3	3520	2680	239.6	3457	2572	254.1	3396	2463	269.7	3337
	50°F	3336	207.0	4007	3227	218.2	3935	3116	230.3	3863	3003	243.6	3792	2887	258.0	3723	2769	273.6	3656
4SRCUS-360A	35°F	2743	222.7	3465	2643	235.6	3406	2540	249.5	3349	2435	264.7	3293	2328	281.2	3239	2219	299.0	3188
	40°F	3080	226.8	3815	2971	239.6	3748	2861	253.6	3683	2747	268.8	3619	2632	285.3	3557	2515	303.1	3498
	45°F	3446	231.2	4195	3329	244.0	4120	3210	257.9	4046	3089	273.1	3974	2965	289.6	3903	2839	307.4	3835
	50°F	3843	236.0	4608	3718	248.6	4524	3590	262.5	4441	3460	277.6	4360	3327	294.0	4280	3191	311.8	4202

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3φ,50HZ)
- QC = Condenser Total Heat Rejection
- Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
- The above data is subject to change without notice.





Condensers Performance Data

Table 12a: Condenser Total Heat Rejection (MBH) - R22

Condenser Models	Condensing Range									
	Aluminum Fin					Copper Fin				
	10°F	15°F	20°F	25°F	30°F	10°F	15°F	20°F	25°F	30°F
75	35	54	74	95	117	36	55	76	97	119
110	75	117	162	210	259	77	120	166	215	266
150	85	132	183	236	291	87	135	187	241	298
225	151	236	326	421	521	154	241	334	432	535
300	176	275	379	489	604	180	281	388	501	619
375	225	350	483	622	767	230	358	494	636	785
450	262	409	564	728	899	268	418	577	746	921
600	320	502	695	898	1109	327	513	711	920	1137
750	398	630	878	1139	1409	407	645	901	1169	1448
900	535	839	1163	1504	1861	547	858	1191	1543	1910
1150	625	969	1331	1708	2098	636	988	1358	1743	2142
1500	811	1275	1772	2295	2839	829	1306	1816	2354	2916
1800	935	1454	2001	2571	3160	953	1483	2042	2625	3227
2000	1112	1731	2382	3059	3756	1132	1763	2428	3120	3832
2800	1506	2353	3248	4178	5136	1534	2400	3315	4267	5247
3200	1666	2601	3587	4612	5667	1697	2652	3660	4708	5786

NOTE

- 1MBH = 1000 Btu/hr
- Condensing Range = Condensing Temperature - Ambient Temperature
- All above data are based on 12 FPI coil fin spacing and sea level altitude. For other condition, performance adjustment factors shall be attend in condenser selection (See Table 1 and 2).
- Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
- The above data is subject to change without notice.

Condensers Performance Data (Cont.)

Table 12b: Condenser Total Heat Rejection (MBH) - R407C

Condenser Models	Condensing Range									
	Aluminum Fin					Copper Fin				
	10°F	15°F	20°F	25°F	30°F	10°F	15°F	20°F	25°F	30°F
75	33	51	70	90	111	34	52	72	93	114
110	71	112	156	202	251	73	115	159	207	257
150	81	127	176	227	282	82	129	180	233	289
225	143	225	313	407	505	146	230	321	417	518
300	168	263	365	473	586	171	269	373	484	600
375	215	335	464	601	743	219	342	475	615	761
450	250	391	542	703	871	254	399	555	720	893
600	306	482	671	872	1081	312	493	687	893	1108
750	381	607	851	1110	1379	390	622	873	1139	1417
900	510	804	1120	1456	1809	521	822	1147	1493	1856
1150	599	933	1287	1659	2045	609	951	1313	1693	2087
1500	774	1225	1711	2227	2767	791	1253	1753	2284	2841
1800	898	1403	1940	2503	3086	914	1430	1979	2554	3152
2000	1070	1674	2315	2985	3677	1089	1705	2360	3044	3752
2800	1449	2278	3160	4083	5037	1476	2323	3225	4169	5145
3200	1604	2519	3492	4508	5557	1633	2568	3561	4601	5675

Table 12c: Condenser Total Heat Rejection (MBH) - R134a

Condenser Models	Condensing Range									
	Aluminum Fin					Copper Fin				
	10°F	15°F	20°F	25°F	30°F	10°F	15°F	20°F	25°F	30°F
75	40	61	82	104	127	41	62	84	107	130
110	84	129	175	223	272	86	132	179	228	279
150	94	144	196	249	304	96	148	201	255	312
225	168	257	350	445	544	172	263	358	457	558
300	196	300	407	517	631	200	306	416	530	646
375	250	382	518	658	802	255	390	530	673	821
450	291	446	606	770	939	298	456	620	789	963
600	352	540	735	936	1143	360	552	752	959	1171
750	434	669	916	1171	1433	444	686	939	1201	1471
900	592	909	1237	1577	1927	606	930	1268	1617	1977
1150	684	1043	1412	1790	2176	697	1064	1440	1827	2221
1500	893	1372	1872	2389	2921	913	1405	1918	2449	2997
1800	1019	1556	2110	2677	3257	1039	1587	2152	2731	3324
2000	1204	1840	2494	3165	3850	1226	1875	2543	3228	3927
2800	1626	2491	3384	4301	5238	1657	2540	3452	4390	5348
3200	1798	2752	3737	4748	5781	1832	2806	3812	4844	5899

NOTE

- 1MBH = 1000 Btu/hr
- Condensing Range = Condensing Temperature - Ambient Temperature
- All above data are based on 12 FPI coil fin spacing and sea level altitude. For other condition, performance adjustment factors shall be attend in condenser selection (See Table 1 and 2).
- Interpolation is allowed but extrapolation outside table boundary is not allowed. Contact Saran MFG group for operating conditions outside table boundary.
- The above data is subject to change without notice.



Technical Data

Table 13a: Condensing Unit Technical Data (Scroll Compressor)

MODEL	Refrigerant Charge (kg)			Oil Charge			Weight (kg)				Connections			
	R22	R407C	R134a	U.S. Gals	Type		Net		Oper.		Suction Line		Liquid Line	
					R22	R407C,R134a	R22,R407C	R134a	R22,R407C	R134a	R22,R407C	R134a	R22,R407C	R134a
1SRCUH-5A	1.7	1.6	1.7	0.44	Mineral	Polyolester	72	70	76	74	7/8"	7/8"	5/8"	1/2"
1SRCUH-7.5A	2.6	2.4	2.6	0.70	Mineral	Polyolester	103	103	109	109	1 1/8"	1 1/8"	5/8"	5/8"
1SRCUH-10A	3.5	3.4	3.6	0.89	Mineral	Polyolester	113	108	121	116	1 3/8"	1 3/8"	7/8"	5/8"
1SRCUH-15A	5.5	5.3	5.7	1.64	Mineral	Polyolester	191	191	204	204	1 3/8"	1 3/8"	7/8"	7/8"
1SRCUH-20A	6.5	6.2	6.6	2.11	Mineral	Polyolester	265	265	280	280	1 5/8"	1 5/8"	7/8"	7/8"
1SRCUH-25A	8.3	8.0	8.5	2.11	Mineral	Polyolester	298	298	317	317	1 5/8"	1 5/8"	1 1/8"	1 1/8"
1SRCUH-30A	9.7	9.3	9.9	2.22	Mineral	Polyolester	312	312	334	334	2 1/8"	2 1/8"	1 1/8"	1 1/8"
2SRCUH-10A	3.4	3.3	3.4	0.88	Mineral	Polyolester	144	141	152	149	2×7/8"	2×7/8"	2×5/8"	2×1/2"
2SRCUH-15A	5.1	4.8	5.1	1.40	Mineral	Polyolester	206	206	218	218	2×1 1/8"	2×1 1/8"	2×5/8"	2×5/8"
2SRCUH-20A	7.0	6.7	7.2	1.78	Mineral	Polyolester	226	215	243	232	2×1 3/8"	2×1 3/8"	2×5/8"	2×5/8"
2SRCUH-30A	11.1	10.6	11.4	3.28	Mineral	Polyolester	382	382	407	408	2×1 3/8"	2×1 3/8"	2×7/8"	2×7/8"
2SRCUH-40A	12.9	12.3	13.3	4.22	Mineral	Polyolester	530	530	560	561	2×1 5/8"	2×1 5/8"	2×7/8"	2×7/8"
2SRCUH-50A	16.7	15.9	17.0	4.22	Mineral	Polyolester	596	596	634	635	2×1 5/8"	2×1 5/8"	2×1 1/8"	2×1 1/8"
2SRCUH-60A	19.3	18.6	19.8	4.44	Mineral	Polyolester	623	623	668	669	2×2 1/8"	2×2 1/8"	2×1 1/8"	2×1 1/8"
4SRCUH-60A	22.2	21.2	22.8	6.56	Mineral	Polyolester	763	763	814	816	4×1 3/8"	4×1 3/8"	4×7/8"	4×7/8"
4SRCUH-80A	25.9	24.6	26.5	8.44	Mineral	Polyolester	1061	1061	1120	1122	4×1 5/8"	4×1 5/8"	4×7/8"	4×7/8"
4SRCUH-100A	33.4	31.8	34.0	8.44	Mineral	Polyolester	1191	1191	1268	1270	4×1 5/8"	4×1 5/8"	4×1 1/8"	4×1 1/8"
4SRCUH-120A	38.7	37.1	39.6	8.88	Mineral	Polyolester	1246	1246	1335	1338	4×2 1/8"	4×2 1/8"	4×1 1/8"	4×1 1/8"

NOTE

- Total Weight = Condensing unit Weight + Condenser Weight
- System Total Operation Charge = Condensing Unit Operating Charge + Condenser Operating Charge
- The above data is subject to change without notice.

Technical Data (Cont.)

Table 13b: Condensing Unit Technical Data (Reciprocating Compressor)

MODEL	Refrigerant Charge (kg)			Oil Charge				Weight (kg)				Connections			
	R22	R407C	R134a	U.S. Gals		Type		Net		Oper.		Suction Line		Liquid Line	
				R22,R407C	R134a	R22	R407C,R134a	R22,R407C	R134a	R22,R407C	R134a	R22,R407C	R134a	R22,R407C	R134a
1SRCUR-5A	1.5	1.4	1.7	0.53	0.53	Mineral	Polyolester	129	134	132	137	7/8"	1 1/8"	5/8"	5/8"
1SRCUR-7.5A	2.2	2.1	2.5	0.53	0.69	Mineral	Polyolester	134	174	138	178	1 1/8"	1 1/8"	5/8"	5/8"
1SRCUR-10A	3.0	3.0	3.5	0.69	0.69	Mineral	Polyolester	194	221	199	227	1 1/8"	1 5/8"	7/8"	7/8"
1SRCUR-15A	4.8	4.7	5.6	0.69	0.69	Mineral	Polyolester	221	224	230	234	1 5/8"	1 5/8"	7/8"	7/8"
1SRCUR-20A	5.7	5.4	6.5	0.69	1.06	Mineral	Polyolester	230	304	240	317	1 5/8"	2 1/8"	7/8"	7/8"
1SRCUR-25A	7.3	7.0	8.4	1.06	1.19	Mineral	Polyolester	291	303	305	319	2 1/8"	2 1/8"	1 1/8"	1 1/8"
1SRCUR-30A	8.4	8.1	9.8	1.19	1.25	Mineral	Polyolester	309	338	325	357	2 1/8"	2 1/8"	1 1/8"	1 1/8"
1SRCUR-35A	10.4	10.0	12.0	1.25	1.25	Mineral	Polyolester	350	353	370	376	2 1/8"	2 1/8"	1 1/8"	1 1/8"
1SRCUR-40A	11.9	11.4	13.7	1.25	1.25	Mineral	Polyolester	362	365	384	391	2 1/8"	2 1/8"	1 1/8"	1 3/8"
1SRCUR-50A	13.9	13.4	16.0	1.25	1.32	Mineral	Polyolester	374	548	400	578	2 1/8"	3 1/8"	1 3/8"	1 3/8"
1SRCUR-60A	17.1	16.4	18.6	1.32	1.32	Mineral	Polyolester	518	542	550	577	3 1/8"	3 1/8"	1 3/8"	1 3/8"
2SRCUR-10A	3.0	2.8	3.4	1.06	1.06	Mineral	Polyolester	258	267	264	274	2×7/8"	2×1 1/8"	2×5/8"	2×5/8"
2SRCUR-15A	4.4	4.3	5.1	1.06	1.38	Mineral	Polyolester	267	347	275	357	2×1 1/8"	2×1 1/8"	2×5/8"	2×5/8"
2SRCUR-20A	6.1	5.9	7.1	1.38	1.38	Mineral	Polyolester	387	441	399	454	2×1 1/8"	2×1 5/8"	2×5/8"	2×7/8"
2SRCUR-30A	9.7	9.3	11.2	1.38	1.38	Mineral	Polyolester	441	447	459	468	2×1 5/8"	2×1 5/8"	2×7/8"	2×7/8"
2SRCUR-40A	11.3	10.8	13.0	1.38	2.12	Mineral	Polyolester	459	609	481	633	2×1 5/8"	2×2 1/8"	2×7/8"	2×7/8"
2SRCUR-50A	14.6	13.9	16.7	2.12	2.38	Mineral	Polyolester	582	606	610	638	2×2 1/8"	2×2 1/8"	2×1 1/8"	2×1 1/8"
2SRCUR-60A	16.9	16.2	19.5	2.38	2.50	Mineral	Polyolester	618	676	650	713	2×2 1/8"	2×2 1/8"	2×1 1/8"	2×1 1/8"
2SRCUR-70A	20.8	20.0	23.9	2.50	2.50	Mineral	Polyolester	700	706	740	752	2×2 1/8"	2×2 1/8"	2×1 1/8"	2×1 1/8"
2SRCUR-80A	23.8	22.8	27.4	2.50	2.50	Mineral	Polyolester	724	731	769	783	2×2 1/8"	2×2 1/8"	2×1 1/8"	2×1 3/8"
2SRCUR-100A	27.7	26.7	32.0	2.50	2.64	Mineral	Polyolester	747	1096	800	1157	2×2 1/8"	2×3 1/8"	2×1 3/8"	2×1 3/8"
2SRCUR-120A	34.2	32.8	37.2	2.64	2.64	Mineral	Polyolester	1036	1084	1101	1155	2×3 1/8"	2×3 1/8"	2×1 3/8"	2×1 3/8"
4SRCUR-80A	22.6	21.6	25.9	2.76	4.24	Mineral	Polyolester	1068	1388	1102	1427	4×1 5/8"	4×2 1/8"	4×7/8"	4×7/8"
4SRCUR-100A	29.2	27.9	33.5	4.24	4.76	Mineral	Polyolester	1548	1764	1594	1818	4×2 1/8"	4×2 1/8"	4×1 1/8"	4×1 1/8"
4SRCUR-120A	33.8	32.5	39.0	4.76	5.00	Mineral	Polyolester	1764	1788	1838	1873	4×2 1/8"	4×2 1/8"	4×1 1/8"	4×1 1/8"
4SRCUR-140A	41.7	40.0	47.9	5.00	5.00	Mineral	Polyolester	1836	2434	1922	2533	4×2 1/8"	4×2 1/8"	4×1 1/8"	4×1 1/8"
4SRCUR-160A	47.6	45.6	54.8	5.00	5.00	Mineral	Polyolester	2328	2424	2439	2551	4×2 1/8"	4×2 1/8"	4×1 1/8"	4×1 3/8"
4SRCUR-200A	55.4	53.5	64.0	5.00	5.28	Mineral	Polyolester	2472	2704	2600	2852	4×2 1/8"	4×3 1/8"	4×1 3/8"	4×1 3/8"
4SRCUR-240A	68.4	65.6	74.4	5.28	5.28	Mineral	Polyolester	2801	2825	2959	3007	4×3 1/8"	4×3 1/8"	4×1 3/8"	4×1 3/8"

Table 13c: Condensing Unit Technical Data (Screw Compressor)

MODEL	Refrigerant Charge (kg)			Oil Charge				Weight (kg)				Connections			
	R22	R407C	R134a	U.S. Gals		Type		Net		Oper.		Suction Line		Liquid Line	
				R22,R407C	R134a	R22, R407C,R134a	R22,R407C	R134a	R22,R407C	R134a	R22,R407C	R134a	R22,R407C	R134a	
1SRCUS-50A	18.3	17.6	19.3	2.51	3.96	Polyolester		547	818	604	895	2 1/8"	3 1/8"	1 3/8"	1 3/8"
1SRCUS-60A	20.9	20.1	22.1	2.51	3.96	Polyolester		547	825	612	913	2 1/8"	3 1/8"	1 3/8"	1 3/8"
1SRCUS-70A	24.6	23.6	25.9	3.96	3.96	Polyolester		876	909	952	1012	3 1/8"	3 1/8"	1 3/8"	1 5/8"
1SRCUS-80A	28.2	27.1	29.8	3.96	5.81	Polyolester		884	1332	971	1451	3 1/8"	4 1/8"	1 5/8"	1 5/8"
1SRCUS-90A	35.0	33.6	36.9	3.96	5.81	Polyolester		901	1349	1010	1497	3 1/8"	4 1/8"	1 5/8"	1 5/8"
2SRCUS-100A	36.5	35.1	38.5	5.02	7.92	Polyolester		1095	1635	1208	1789	2×2 1/8"	2×3 1/8"	2×1 3/8"	2×1 3/8"
2SRCUS-120A	41.8	40.1	44.1	5.02	7.92	Polyolester		1095	1649	1224	1826	2×2 1/8"	2×3 1/8"	2×1 3/8"	2×1 3/8"
2SRCUS-140A	49.1	47.2	51.8	7.92	7.92	Polyolester		1751	1817	1903	2024	2×3 1/8"	2×3 1/8"	2×1 3/8"	2×1 5/8"
2SRCUS-160A	56.3	54.2	59.6	7.92	11.62	Polyolester		1768	2664	1943	2902	2×3 1/8"	2×4 1/8"	2×1 5/8"	2×1 5/8"
2SRCUS-180A	70.0	67.1	73.8	7.92	11.62	Polyolester		1802	2698	2019	2993	2×3 1/8"	2×4 1/8"	2×1 5/8"	2×1 5/8"
4SRCUS-200A	73.1	70.2	77.0	10.04	15.84	Polyolester		2190	3270	2416	3579	4×2 1/8"	4×3 1/8"	4×1 3/8"	4×1 3/8"
4SRCUS-240A	83.5	80.3	88.2	10.04	15.84	Polyolester		2190	3298	2449	3651	4×2 1/8"	4×3 1/8"	4×1 3/8"	4×1 3/8"
4SRCUS-280A	98.3	94.3	103.7	15.84	15.84	Polyolester		3502	3634	3807	4049	4×3 1/8"	4×3 1/8"	4×1 3/8"	4×1 5/8"
4SRCUS-320A	112.7	108.4	119.2	15.84	23.24	Polyolester		3536	5328	3885	5805	4×3 1/8"	4×4 1/8"	4×1 5/8"	4×1 5/8"
4SRCUS-360A	140.0	134.3	147.6	15.84	23.24	Polyolester		3604	5396	4038	5986	4×3 1/8"	4×4 1/8"	4×1 5/8"	4×1 5/8"

NOTE

- Total weight = Condensing unit Weight + Condenser Weight
- System Total Operation Charge = Condensing unit Operating Charge + Condenser Operating Charge
- The above data is subject to change without notice.



Technical Data (Cont.)

Table 14: Air-Cooled Condenser Technical Data

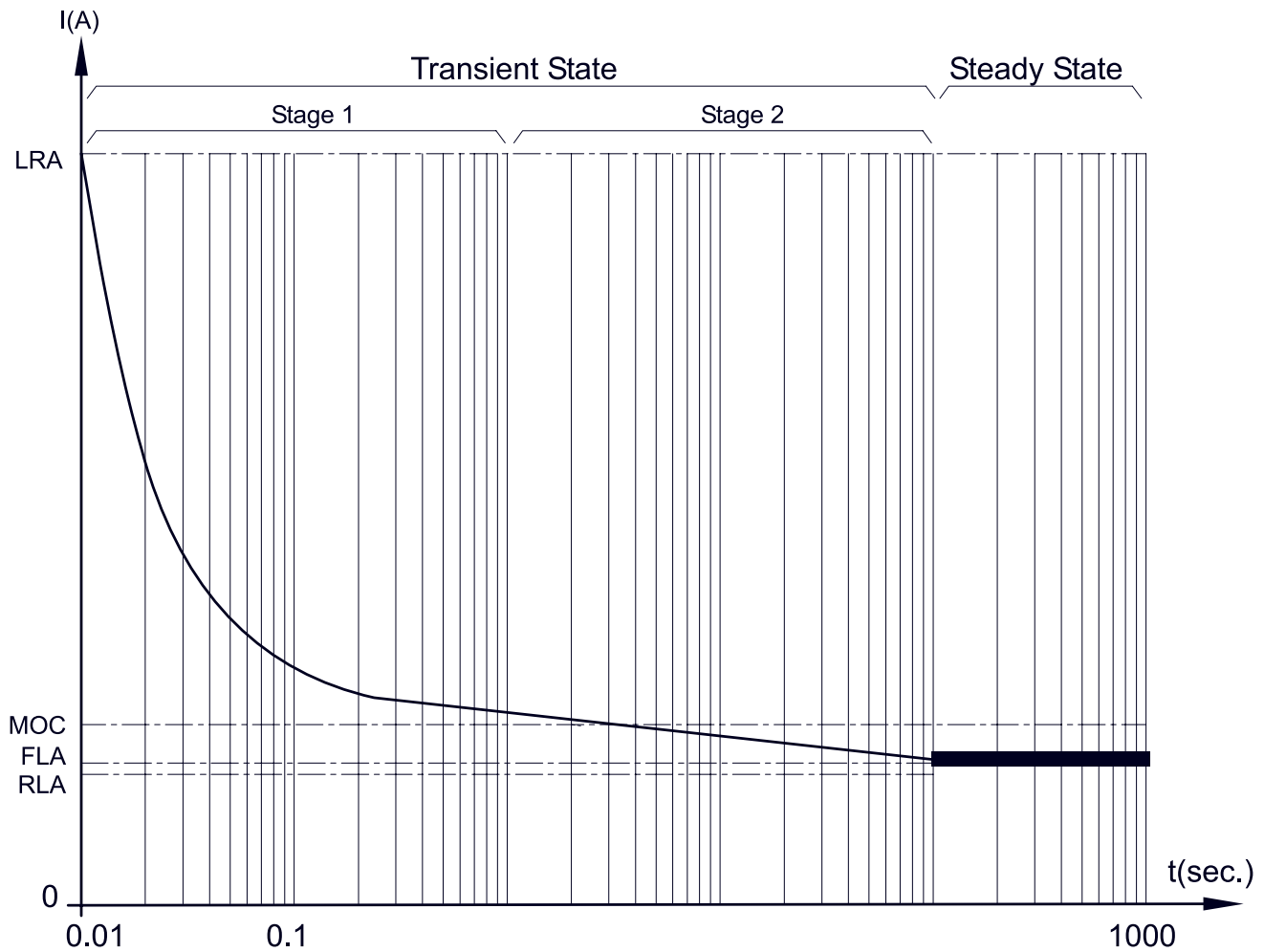
MODEL	Propeller Fan Data						Coil Data		Refrigerant Charge (kg)			No. of Circuit	Unit Weight (kg)	Electrical Data	
	Qty	Dia. (mm)	RPM	Power (kW)	Current (Amp.)	Total Air Flow Rate (CFM)	Rows	Coils Face Area (Sq ft)	R22	R407C	R134a			Total Power (kW)	Total Current (Amp.)
75	1	710	900	0.9	1.9	6500	3	8.7	5.1	4.8	5.2	1	173	0.9	1.9
110	2	710	900	0.9	1.9	13000	3	18.3	10.6	10.0	10.8	1	325	1.8	3.8
150	2	710	900	0.9	1.9	14000	3	21.3	11.8	11.2	12.0	1	353	1.8	3.8
225	4	710	900	0.9	1.9	25600	3	36.8	19.8	18.8	20.2	1,2	622	3.6	7.6
300	4	710	900	0.9	1.9	28800	3	44.6	23.3	22.1	23.8	1,2	675	3.6	7.6
375	5	710	900	0.9	1.9	36000	3	58.1	29.7	28.2	30.3	1,2	855	4.5	9.5
450	6	710	900	0.9	1.9	43200	3	65.9	32.8	31.2	33.5	1,2	943	5.4	11.4
600	4	800	900	1.2	2.85	50000	3	80.9	39.3	37.3	40.1	1,2	1049	4.8	11.4
750	6	800	900	1.2	2.85	63000	3	94.9	44.8	42.5	45.7	1,2	1214	7.2	17.1
900	8	800	900	1.2	2.85	88000	3	131.1	60.2	57.1	61.4	1,2,4	1736	9.6	22.8
1150	8	800	900	1.2	2.85	80000	4	131.1	77.9	73.9	79.5	1,2,4	1957	9.6	22.8
1500	12	800	900	1.2	2.85	132000	3	197.3	87.9	83.4	89.7	1,2,4	2611	14.4	34.2
1800	12	800	900	1.2	2.85	120000	4	197.3	110.3	104.7	112.6	1,2,4	2943	14.4	34.2
2000	12	800	900	1.2	2.85	138000	4	239.5	129.9	123.2	132.5	1,2,4	3596	14.4	34.2
2800	18	800	900	1.2	2.85	189000	4	313.3	164.3	156.0	167.7	1,2,4	4714	21.6	51.3
3200	18	800	900	1.2	2.85	207000	4	351.3	171.9	163.1	175.4	1,2,4	5067	21.6	51.3

NOTE

- Condenser operating weight = Condenser Weight + Condenser Operating Charge
- The above data is subject to change without notice.

Electrical Data

Electrical Schematic Curve at the Start-Up



NOTE

- The transient stage is drastically reduced in chillers that utilize unloaders or part winding start method so its curve differs from the above.

Locked Rotor Amps (LRA):

Peak of transient electrical current at the instant of compressor motor start-up. (stage 1).

Maximum Operating Current (MOC):

Maximum electrical current tolerated by compressor motor. This current exists only when the system has been idle (warm evaporator, condenser & connecting piping) & lasts for a short period until the system reaches the steady state condition.

Otherwise the stage 2 of transient state on the graph can be ignored.

Full Load Amps (FLA):

Maximum electrical drawn at the most undesirable system working condition under steady state operation.

Rated Load Amps (RLA):

Nominal electrical current drawn at normal working condition under steady state operation.



Electrical Data (Cont.)

Table 15a: Condensing Unit Electrical Data (Scroll Compressor)–R22

Model	Per Compressor							Total			System Incoming Cable Size	
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	System Total Ampere	Cable Size (mm ²)
1SRCUH-5A	5	D.O.L	7.85	8.95	11	65.5	5	7.85	8.95	5	17 A	4*2.5
1SRCUH-7.5A	7.5	D.O.L	11.6	13.6	15.9	95	7.45	11.6	13.6	7.45	25A	4*4
1SRCUH-10A	10	D.O.L	14.7	17.1	19.6	118	10	14.7	17.1	10	30A	4*6
1SRCUH-15A	15	D.O.L	22.75	25.85	35	175	14.95	22.75	25.85	14.95	45 A	4*10
1SRCUH-20A	20	D.O.L	29.05	33.55	50	215	20.1	29.05	33.55	20.1	60A	4*16
1SRCUH-25A	25	D.O.L	36.95	42.55	69	270	25.4	36.95	42.55	25.4	75A	3*25/16
1SRCUH-30A	30	D.O.L	42.25	49.1	79	300	30.15	42.25	49.1	30.15	95 A	3*35/16
											115 A	3*50/25
2SRCUH-10A	5	D.O.L	7.85	8.95	11	65.5	5	15.7	17.9	10	145 A	3*70/35
2SRCUH-15A	7.5	D.O.L	11.6	13.6	15.9	95	7.45	23.2	27.2	14.9	175 A	3*95/50
2SRCUH-20A	10	D.O.L	14.7	17.1	19.6	118	10	29.4	34.2	20	200 A	3*120/70
2SRCUH-30A	15	D.O.L	22.75	25.85	35	175	14.95	45.5	51.7	29.9	230 A	3*150/70
2SRCUH-40A	20	D.O.L	29.05	33.55	50	215	20.1	58.1	67.1	40.2	265 A	3*185/95
2SRCUH-50A	25	D.O.L	36.95	42.55	69	270	25.4	73.9	85.1	50.8	310 A	3*240/120
2SRCUH-60A	30	D.O.L	42.25	49.1	79	300	30.15	84.5	98.2	60.3	350 A	2*(3*95/50)
											405 A	2*(3*120/70)
4SRCUH-60A	15	D.O.L	22.75	25.85	35	175	14.95	91	103.4	59.8	465 A	2*(3*150/70)
4SRCUH-80A	20	D.O.L	29.05	33.55	50	215	20.1	116.2	134.2	80.4	530 A	2*(3*185/95)
4SRCUH-100A	25	D.O.L	36.95	42.55	69	270	25.4	147.8	170.2	101.6	620 A	2*(3*240/120)
4SRCUH-120A	30	D.O.L	42.25	49.1	79	300	30.15	169	196.4	120.6	700A	3*(3*150/70)

NOTE

- System power supply= 380~400V/3 ϕ /50HZ
- RLA = Rated Load Ampere
- FLA = Full Load Ampere
- MOC = Maximum Operating Current
- LRA = Lock Rotor Ampere
- MPI = Maximum Power Input (kW)
- D.O.L = Direct On Line Start Type
- Cable size are based on copper conductor at maximum ambient temperature of 40°C and maximum distance of 70 meter.
- System total power input = chiller total power Input + air condenser total power input.
- System total ampere = chiller total Ampere + air condenser total ampere.
- For system incoming wire sizing add the chiller total ampere and air condenser total ampere.
- All above data subject to change without notice.



Electrical Data (Cont.)

Table 15b: Condensing Unit Electrical Data (Scroll Compressor) – R407C

Model	Per Compressor							Total			System Incoming Cable Size	
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	System Total Ampere	Cable Size(mm ²)
1SRCUH-5A	5	D.O.L	7.1	8.3	12	59	5	7.1	8.3	5	17 A	4*2.5
1SRCUH-7.5A	7.5	D.O.L	11.95	13.7	15.9	95	7.65	11.95	13.7	7.65	25A	4*4
1SRCUH-10A	10	D.O.L	14.85	17.35	19.6	118	9.95	14.85	17.35	9.95	30A	4*6
1SRCUH-15A	15	D.O.L	23.25	26.5	35	175	15.2	23.25	26.5	15.2	45 A	4*10
1SRCUH-20A	20	D.O.L	29	34.05	50	215	20.7	29	34.05	20.7	60A	4*16
1SRCUH-25A	25	D.O.L	35.8	41.85	69	270	25.35	35.8	41.85	25.35	75A	3*25/16
1SRCUH-30A	30	D.O.L	41.8	48.95	79	300	30.6	41.8	48.95	30.6	95 A	3*35/16
											115 A	3*50/25
2SRCUH-10A	5	D.O.L	7.1	8.3	12	59	5	14.2	16.6	10	145 A	3*70/35
2SRCUH-15A	7.5	D.O.L	11.95	13.7	15.9	95	7.65	23.9	27.4	15.3	175 A	3*95/50
2SRCUH-20A	10	D.O.L	14.85	17.35	19.6	118	9.95	29.7	34.7	19.9	200 A	3*120/70
2SRCUH-30A	15	D.O.L	23.25	26.5	35	175	15.2	46.5	53	30.4	230 A	3*150/70
2SRCUH-40A	20	D.O.L	29	34.05	50	215	20.7	58	68.1	41.4	265 A	3*185/95
2SRCUH-50A	25	D.O.L	35.8	41.85	69	270	25.35	71.6	83.7	50.7	310 A	3*240/120
2SRCUH-60A	30	D.O.L	41.8	48.95	79	300	30.6	83.6	97.9	61.2	350 A	2*(3*95/50)
											405 A	2*(3*120/70)
4SRCUH-60A	15	D.O.L	23.25	26.5	35	175	15.2	93	106	60.8	465 A	2*(3*150/70)
4SRCUH-80A	20	D.O.L	29	34.05	50	215	20.7	116	136.2	82.8	530 A	2*(3*185/95)
4SRCUH-100A	25	D.O.L	35.8	41.85	69	270	25.35	143.2	167.4	101.4	620 A	2*(3*240/120)
4SRCUH-120A	30	D.O.L	41.8	48.95	79	300	30.6	167.2	195.8	122.4	700A	3*(3*150/70)

NOTE

- System power supply = 380~400V/3φ/50HZ
- RLA = Rated Load Ampere
- FLA = Full Load Ampere
- MOC = Maximum Operating Current
- LRA = Lock Rotor Ampere
- MPI = Maximum Power Input (kW)
- D.O.L = Direct On Line Start Type
- Cable size are based on copper conductor at maximum ambient temperature of 40°C and maximum distance of 70 meter.
- System total power input = chiller total power input+ air condenser total power input.
- System total ampere = chiller total ampere + air condenser total ampere.
- For system incoming wire sizing add the chiller total ampere and air condenser total ampere.
- All above data subject to change without notice.



Electrical Data (Cont.)

Table 15c: Condensing Unit Electrical Data (Scroll Compressor)–R134a

Model	Per Compressor							Total			System Incoming Cable Size	
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	System Total Ampere	Cable Size (mm ²)
1SRCUH-5A	5	D.O.L	5.65	6.35	11	65.5	3.3	5.65	6.35	3.3	17 A	4*2.5
1SRCUH-7.5A	7.5	D.O.L	9.75	10.65	15.9	95	5.1	9.75	10.65	5.1	25A	4*4
1SRCUH-10A	10	D.O.L	11.65	12.9	19.6	118	6.55	11.65	12.9	6.55	30A	4*6
1SRCUH-15A	15	D.O.L	21.4	22.85	34	174	10.35	21.4	22.85	10.35	45 A	4*10
1SRCUH-20A	20	D.O.L	22.4	25	50	215	13.9	22.4	25	13.9	60A	4*16
1SRCUH-25A	25	D.O.L	28.5	32.05	69	270	17.35	28.5	32.05	17.35	75A	3*25/16
1SRCUH-30A	30	D.O.L	31	35.3	79	300	20.7	31	35.3	20.7	95 A	3*35/16
2SRCUH-10A	5	D.O.L	5.65	6.35	11	65.5	3.3	11.3	12.7	6.6	115 A	3*50/25
2SRCUH-15A	7.5	D.O.L	9.75	10.65	15.9	95	5.1	19.5	21.3	10.2	145 A	3*70/35
2SRCUH-20A	10	D.O.L	11.65	12.9	19.6	118	6.55	23.3	25.8	13.1	175 A	3*95/50
2SRCUH-30A	15	D.O.L	21.4	22.85	34	174	10.35	42.8	45.7	20.7	200 A	3*120/70
2SRCUH-40A	20	D.O.L	22.4	25	50	215	13.9	44.8	50	27.8	230 A	3*150/70
2SRCUH-50A	25	D.O.L	28.5	32.05	69	270	17.35	57	64.1	34.7	265 A	3*185/95
2SRCUH-60A	30	D.O.L	31	35.3	79	300	20.7	62	70.6	41.4	310 A	3*240/120
4SRCUH-60A	15	D.O.L	21.4	22.85	34	174	10.35	85.6	91.4	41.4	350 A	2*(3*95/50)
4SRCUH-80A	20	D.O.L	22.4	25	50	215	13.9	89.6	100	55.6	405 A	2*(3*120/70)
4SRCUH-100A	25	D.O.L	28.5	32.05	69	270	17.35	114	128.2	69.4	465 A	2*(3*150/70)
4SRCUH-120A	30	D.O.L	31	35.3	79	300	20.7	124	141.2	82.8	530 A	2*(3*185/95)
											620 A	2*(3*240/120)
											700A	3*(3*150/70)

NOTE

- System power supply = 380~400V/3 ϕ /50HZ
- RLA = Rated Load Ampere
- FLA = Full Load Ampere
- MOC = Maximum Operating Current
- LRA = Lock Rotor Ampere
- MPI = Maximum Power Input (kW)
- D.O.L = Direct On Line Start Type
- Cable size are based on copper conductor at maximum ambient temperature of 40°C and maximum distance of 70 meter.
- System total power input = chiller total power input+ air condenser total power input.
- System total ampere = chiller total ampere + air condenser total ampere.
- For system incoming wire sizing add the chiller total ampere and air condenser total ampere.
- All above data subject to change without notice.

Electrical Data (Cont.)

Table 16a: Condensing Unit Electrical Data (Reciprocating Compressor)–R22

Model	Per Compressor							Total			System Incoming Cable Size	
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	System Total Ampere	Cable Size(mm ²)
1SRCUR-5A	5	D.O.L	8.45	9.6	10.8	62.2	5.5	8.45	9.6	5.5	17 A	4*2.5
1SRCUR-7.5A	7.5	D.O.L	12.3	14.2	16.5	82.4	8.35	12.3	14.2	8.35	25A	4*4
1SRCUR-10A	10	PW	15.55	17.85	19.9	59/99	10.4	15.55	17.85	10.4	30A	4*6
1SRCUR-15A	15	PW	21.8	25.1	28.2	81/132	14.6	21.8	25.1	14.6	45 A	4*10
1SRCUR-20A	20	PW	24.9	28.8	33.2	97/158	17.1	24.9	28.8	17.1	60A	4*16
1SRCUR-25A	25	PW	33.5	38.9	44	125/211	23	33.5	38.9	23	75A	3*25/16
1SRCUR-30A	30	PW	39.4	45.4	51.2	141/233	26.4	39.4	45.4	26.4	95 A	3*35/16
1SRCUR-35A	35	PW	51.4	59.8	64.4	165/275	35.1	51.4	59.8	35.1	115 A	3*50/25
1SRCUR-40A	40	PW	59.9	68.3	73.9	219/362	39.6	59.9	68.3	39.6	145 A	3*70/35
1SRCUR-50A	50	PW	79.1	87.2	96.2	226/404	48.1	79.1	87.2	48.1	175 A	3*95/50
1SRCUR-60A	60	PW	93.5	107.2	113	349/513	59	93.5	107.2	59	200 A	3*120/70
											230 A	3*150/70
2SRCUR-10A	5	D.O.L	8.45	9.6	10.8	62.2	5.5	16.9	19.2	11	265 A	3*185/95
2SRCUR-15A	7.5	D.O.L	12.3	14.2	16.5	82.4	8.35	24.6	28.4	16.7	310 A	3*240/120
2SRCUR-20A	10	PW	15.55	17.85	19.9	59/99	10.4	31.1	35.7	20.8	350 A	2*(3*95/50)
2SRCUR-30A	15	PW	21.8	25.1	28.2	81/132	14.6	43.6	50.2	29.2	405 A	2*(3*120/70)
2SRCUR-40A	20	PW	24.9	28.8	33.2	97/158	17.1	49.8	57.6	34.2	465 A	2*(3*150/70)
2SRCUR-50A	25	PW	33.5	38.9	44	125/211	23	67	77.8	46	530 A	2*(3*185/95)
2SRCUR-60A	30	PW	39.4	45.4	51.2	141/233	26.4	78.8	90.8	52.8	620 A	2*(3*240/120)
2SRCUR-70A	35	PW	51.4	59.8	64.4	165/275	35.1	102.8	119.6	70.2	700A	3*(3*150/70)
2SRCUR-80A	40	PW	59.9	68.3	73.9	219/362	39.6	119.8	136.6	79.2		
2SRCUR-100A	50	PW	79.1	87.2	96.2	226/404	48.1	158.2	174.4	96.2		
2SRCUR-120A	60	PW	93.5	107.2	113	349/513	59	187	214.4	118		
4SRCUR-80A	20	PW	24.9	28.8	33.2	97/158	17.1	99.6	115.2	68.4		
4SRCUR-100A	25	PW	33.5	38.9	44	125/211	23	134	155.6	92		
4SRCUR-120A	30	PW	39.4	45.4	51.2	141/233	26.4	157.6	181.6	105.6		
4SRCUR-140A	35	PW	51.4	59.8	64.4	165/275	35.1	205.6	239.2	140.4		
4SRCUR-160A	40	PW	59.9	68.3	73.9	219/362	39.6	239.6	273.2	158.4		
4SRCUR-200A	50	PW	79.1	87.2	96.2	226/404	48.1	316.4	348.8	192.4		
4SRCUR-240A	60	PW	93.5	107.2	113	349/513	59	374	428.8	236		

NOTE

- System power supply = 380~400V/3 ϕ /50HZ
- RLA = Rated Load Ampere
- FLA = Full Load Ampere
- MOC = Maximum Operating Current
- LRA = Lock Rotor Ampere
- MPI = Maximum Power Input (kW)
- D.O.L = Direct On Line Start Type
- PW = Part Winding Start Type
- Starting type of compressors maybe change based on unit operation condition
- Cable size are based on copper conductor at maximum ambient temperature of 40°C and maximum distance of 70 meter.
- System total power input = chiller total power input+ air condenser total power input.
- System total ampere = chiller total ampere + air condenser total ampere.
- For system incoming wire sizing add the chiller total ampere and air condenser total ampere.
- All above data subject to change without notice.

Electrical Data (Cont.)

Table 16b: Condensing Unit Electrical Data (Reciprocating Compressor)–R407C

Model	Per Compressor							Total			System Incoming Cable Size	
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	System Total Ampere	Cable Size (mm ²)
1SRCUR-5A	5	D.O.L	8.45	9.57	10.8	62.2	5.47	8.45	9.57	5.47	17 A	4*2.5
1SRCUR-7.5A	7.5	D.O.L	12.25	14.05	16.5	82.4	8.27	12.25	14.05	8.27	25A	4*4
1SRCUR-10A	10	PW	14.9	16.85	19.9	59/99	9.75	14.9	16.85	9.75	30A	4*6
1SRCUR-15A	15	PW	20.8	23.6	28.2	81/132	13.65	20.8	23.6	13.65	45 A	4*10
1SRCUR-20A	20	PW	23.8	27.1	33.2	97/158	16	23.8	27.1	16	60A	4*16
1SRCUR-25A	25	PW	32.6	37.5	44	125/211	22.1	32.6	37.5	22.1	75A	3*25/16
1SRCUR-30A	30	PW	38.8	44.6	51.2	141/233	25.9	38.8	44.6	25.9	95 A	3*35/16
1SRCUR-35A	35	PW	49.5	57.3	64.4	165/275	33.5	49.5	57.3	33.5	115 A	3*50/25
1SRCUR-40A	40	PW	59.1	67.4	73.9	219/362	39	59.1	67.4	39	145 A	3*70/35
1SRCUR-50A	50	PW	77.3	84.9	96.2	266/404	46	77.3	84.9	46	175 A	3*95/50
1SRCUR-60A	60	PW	92.8	106.1	113	349/513	58.3	92.8	106.1	58.3	200 A	3*120/70
											230 A	3*150/70
											265 A	3*185/95
2SRCUR-10A	5	D.O.L	8.45	9.57	10.8	62.2	5.47	16.9	19.14	10.94	310 A	3*240/120
2SRCUR-15A	7.5	D.O.L	12.25	14.05	16.5	82.4	8.27	24.5	28.1	16.54	350 A	2*(3*95/50)
2SRCUR-20A	10	PW	14.9	16.85	19.9	59/99	9.75	29.8	33.7	19.5	405 A	2*(3*120/70)
2SRCUR-30A	15	PW	20.8	23.6	28.2	81/132	13.65	41.6	47.2	27.3	465 A	2*(3*150/70)
2SRCUR-40A	20	PW	23.8	27.1	33.2	97/158	16	47.6	54.2	32	530 A	2*(3*185/95)
2SRCUR-50A	25	PW	32.6	37.5	44	125/211	22.1	65.2	75	44.2	620 A	2*(3*240/120)
2SRCUR-60A	30	PW	38.8	44.6	51.2	141/233	25.9	77.6	89.2	51.8	700A	3*(3*150/70)
2SRCUR-70A	35	PW	49.5	57.3	64.4	165/275	33.5	99	114.6	67		
2SRCUR-80A	40	PW	59.1	67.4	73.9	219/362	39	118.2	134.8	78		
2SRCUR-100A	50	PW	77.3	84.9	96.2	266/404	46	154.6	169.8	92		
2SRCUR-120A	60	PW	92.8	106.1	113	349/513	58.3	185.6	212.2	116.6		
4SRCUR-80A	20	PW	23.8	27.1	33.2	97/158	16	95.2	108.4	64		
4SRCUR-100A	25	PW	32.6	37.5	44	125/211	22.1	130.4	150	88.4		
4SRCUR-120A	30	PW	38.8	44.6	51.2	141/233	25.9	155.2	178.4	103.6		
4SRCUR-140A	35	PW	49.5	57.3	64.4	165/275	33.5	198	229.2	134		
4SRCUR-160A	40	PW	59.1	67.4	73.9	219/362	39	236.4	269.6	156		
4SRCUR-200A	50	PW	77.3	84.9	96.2	266/404	46	309.2	339.6	184		
4SRCUR-240A	60	PW	92.8	106.1	113	349/513	58.3	371.2	424.4	233.2		

NOTE

- System power supply = 380~400V/3 ϕ /50HZ
- RLA = Rated Load Ampere
- FLA = Full Load Ampere
- MOC = Maximum Operating Current
- LRA = Lock Rotor Ampere
- MPI = Maximum Power Input (kW)
- D.O.L = Direct On Line Start Type
- PW = Part Winding Start Type
- Starting type of compressors maybe change based on unit operation condition
- Cable size are based on copper conductor at maximum ambient temperature of 40°C and maximum distance of 70 meter.
- System total power input=chiller total power input+ air condenser total power input.
- System total ampere = chiller total ampere + air condenser total ampere.
- For system incoming wire sizing add the chiller total ampere and air condenser total ampere.
- All above data subject to change without notice.

Electrical Data (Cont.)

Table 16c: Condensing Unit Electrical Data (Reciprocating Compressor)–R134a

Model	Per Compressor							Total			System Incoming Cable Size	
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	System Total Ampere	Cable Size (mm ²)
1SRCUR-5A	5	D.O.L	8.5	9.8	14.5	62.2	5.6	8.5	9.8	5.6	17 A	4*2.5
1SRCUR-7.5A	7.5	PW	10.3	11.9	16.6	39/68	6.95	10.3	11.9	6.95	25A	4*4
1SRCUR-10A	10	PW	14.15	16.3	22.7	59/99	9.35	14.15	16.3	9.35	30A	4*6
1SRCUR-15A	15	PW	16.4	19	26.6	69/113	11.2	16.4	19	11.2	45 A	4*10
1SRCUR-20A	20	PW	22.2	25.7	36.7	97/158	15.05	22.2	25.7	15.05	60A	4*16
1SRCUR-25A	25	PW	25.4	29.5	43.9	97/158	17.55	25.4	29.5	17.55	75A	3*25/16
1SRCUR-30A	30	PW	34.6	39.9	53.2	141/233	22.7	34.6	39.9	22.7	95 A	3*35/16
1SRCUR-35A	35	PW	39.6	45.8	65.5	141/233	26.7	39.6	45.8	26.7	115 A	3*50/25
1SRCUR-40A	40	PW	51.1	57.5	83.2	219/362	31.9	51.1	57.5	31.9	145 A	3*70/35
1SRCUR-50A	50	PW	66.1	74	92	298/438	38.9	66.1	74	38.9	175 A	3*95/50
1SRCUR-60A	60	PW	78.1	87.3	113	349/513	45.7	78.1	87.3	45.7	200 A	3*120/70
											230 A	3*150/70
											265 A	3*185/95
2SRCUR-10A	5	D.O.L	8.5	9.8	14.5	62.2	5.6	17	19.6	11.2	310 A	3*240/120
2SRCUR-15A	7.5	PW	10.3	11.9	16.6	39/68	6.95	20.6	23.8	13.9	350 A	2*(3*95/50)
2SRCUR-20A	10	PW	14.15	16.3	22.7	59/99	9.35	28.3	32.6	18.7	405 A	2*(3*120/70)
2SRCUR-30A	15	PW	16.4	19	26.6	69/113	11.2	32.8	38	22.4	465 A	2*(3*150/70)
2SRCUR-40A	20	PW	22.2	25.7	36.7	97/158	15.05	44.4	51.4	30.1	530 A	2*(3*185/95)
2SRCUR-50A	25	PW	25.4	29.5	43.9	97/158	17.55	50.8	59	35.1	620 A	2*(3*240/120)
2SRCUR-60A	30	PW	34.6	39.9	53.2	141/233	22.7	69.2	79.8	45.4	700A	3*(3*150/70)
2SRCUR-70A	35	PW	39.6	45.8	65.5	141/233	26.7	79.2	91.6	53.4		
2SRCUR-80A	40	PW	51.1	57.5	83.2	219/362	31.9	102.2	115	63.8		
2SRCUR-100A	50	PW	66.1	74	92	298/438	38.9	132.2	148	77.8		
2SRCUR-120A	60	PW	78.1	87.3	113	349/513	45.7	156.2	174.6	91.4		
4SRCUR-80A	20	PW	22.2	25.7	36.7	97/158	15.05	88.8	102.8	60.2		
4SRCUR-100A	25	PW	25.4	29.5	43.9	97/158	17.55	101.6	118	70.2		
4SRCUR-120A	30	PW	34.6	39.9	53.2	141/233	22.7	138.4	159.6	90.8		
4SRCUR-140A	35	PW	39.6	45.8	65.5	141/233	26.7	158.4	183.2	106.8		
4SRCUR-160A	40	PW	51.1	57.5	83.2	219/362	31.9	204.4	230	127.6		
4SRCUR-200A	50	PW	66.1	74	92	298/438	38.9	264.4	296	155.6		
4SRCUR-240A	60	PW	78.1	87.3	113	349/513	45.7	312.4	349.2	182.8		

NOTE

- System power supply = 380~400V/3 ϕ /50HZ
- RLA = Rated Load Ampere
- FLA = Full Load Ampere
- MOC = Maximum Operating Current
- LRA = Lock Rotor Ampere
- MPI = Maximum Power Input (kW)
- D.O.L = Direct On Line Start Type
- PW = Part Winding Start Type
- Starting type of compressors maybe change based on unit operation condition
- Cable size are based on copper conductor at maximum ambient temperature of 40 $^{\circ}$ c and maximum distance of 70 meter.
- System total power input=chiller total power input+ air condenser total power input.
- System total ampere = chiller total ampere + air condenser total ampere.
- For system incoming wire sizing add the chiller total ampere and air condenser total ampere.
- All above data subject to change without notice.



Electrical Data (Cont.)

Table 17a: Condensing Unit Electrical Data (Screw Compressor)–R22

Model	Per Compressor							Total			System Incoming Cable Size	
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	System Total Ampere	Cable Size (mm ²)
1SRCUS-50A	50	PW	64.8	77.8	86	218/411	47	64.8	77.8	47	17 A	4*2.5
1SRCUS-60A	60	PW	79.4	95.7	108	269/508	58.3	79.4	95.7	58.3	25A	4*4
1SRCUS-70A	70	PW	93.2	110.5	128	290/485	68.2	93.2	110.5	68.2	30A	4*6
1SRCUS-80A	80	PW	104.9	124	144	350/585	76.3	104.9	124	76.3	45 A	4*10
1SRCUS-90A	90	PW	117.7	140.8	162	423/686	88.1	117.7	140.8	88.1	60A	4*16
											75A	3*25/16
2SRCUS-100A	50	PW	64.8	77.8	86	218/411	47	129.6	155.6	94	95 A	3*35/16
2SRCUS-120A	60	PW	79.4	95.7	108	269/508	58.3	158.8	191.4	116.6	115 A	3*50/25
2SRCUS-140A	70	PW	93.2	110.5	128	290/485	68.2	186.4	221	136.4	145 A	3*70/35
2SRCUS-160A	80	PW	104.9	124	144	350/585	76.3	209.8	248	152.6	175 A	3*95/50
2SRCUS-180A	90	PW	117.7	140.8	162	423/686	88.1	235.4	281.6	176.2	200 A	3*120/70
											230 A	3*150/70
4SRCUS-200A	50	PW	64.8	77.8	86	218/411	47	259.2	311.2	188	265 A	3*185/95
4SRCUS-240A	60	PW	79.4	95.7	108	269/508	58.3	317.6	382.8	233.2	310 A	3*240/120
4SRCUS-280A	70	PW	93.2	110.5	128	290/485	68.2	372.8	442	272.8	350 A	2*(3*95/50)
4SRCUS-320A	80	PW	104.9	124	144	350/585	76.3	419.6	496	305.2	405 A	2*(3*120/70)
4SRCUS-360A	90	PW	117.7	140.8	162	423/686	88.1	470.8	563.2	352.4	465 A	2*(3*150/70)
											530 A	2*(3*185/95)
											620 A	2*(3*240/120)
											700A	3*(3*150/70)

NOTE

- System power supply = 380~400V/3 ϕ /50HZ
- RLA = Rated Load Ampere
- FLA = Full Load Ampere
- MOC = Maximum Operating Current
- LRA = Lock Rotor Ampere
- MPI = Maximum Power Input (kW)
- PW = Part Winding Start Type
- Cable size are based on copper conductor at maximum ambient temperature of 40°C and maximum distance of 70 meter.
- System total power input = chiller total power input+ air condenser total power input.
- System total ampere = chiller total ampere + air condenser total ampere.
- For system incoming wire sizing add the chiller total ampere and air condenser total ampere.
- All above data subject to change without notice.

Electrical Data (Cont.)

Table 17b: Condensing Unit Electrical Data (Screw Compressor)–R407C

Model	Per Compressor							Total			System Incoming Cable Size	
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	System Total Ampere	Cable Size (mm ²)
1SRCUS-50A	50	PW	63.5	75.9	86	218/411	45.7	63.5	75.9	45.7	17 A	4*2.5
1SRCUS-60A	60	PW	77.8	93.3	108	269/508	56.8	77.8	93.3	56.8	25A	4*4
1SRCUS-70A	70	PW	88.7	104.5	128	290/485	64.2	88.7	104.5	64.2	30A	4*6
1SRCUS-80A	80	PW	101.2	119.4	144	350/585	73.3	101.2	119.4	73.3	45 A	4*10
1SRCUS-90A	90	PW	112.4	135.4	162	423/686	84.5	112.4	135.4	84.5	60A	4*16
2SRCUS-100A	50	PW	63.5	75.9	86	218/411	45.7	127	151.8	91.4	75A	3*25/16
2SRCUS-120A	60	PW	77.8	93.3	108	269/508	56.8	155.6	186.6	113.6	95 A	3*35/16
2SRCUS-140A	70	PW	88.7	104.5	128	290/485	64.2	177.4	209	128.4	115 A	3*50/25
2SRCUS-160A	80	PW	101.2	119.4	144	350/585	73.3	202.4	238.8	146.6	145 A	3*70/35
2SRCUS-180A	90	PW	112.4	135.4	162	423/686	84.5	224.8	270.8	169	175 A	3*95/50
4SRCUS-200A	50	PW	63.5	75.9	86	218/411	45.7	254	303.6	182.8	200 A	3*120/70
4SRCUS-240A	60	PW	77.8	93.3	108	269/508	56.8	311.2	373.2	227.2	230 A	3*150/70
4SRCUS-280A	70	PW	88.7	104.5	128	290/485	64.2	354.8	418	256.8	265 A	3*185/95
4SRCUS-320A	80	PW	101.2	119.4	144	350/585	73.3	404.8	477.6	293.2	310 A	3*240/120
4SRCUS-360A	90	PW	112.4	135.4	162	423/686	84.5	449.6	541.6	338	350 A	2*(3*95/50)
											405 A	2*(3*120/70)
											465 A	2*(3*150/70)
											530 A	2*(3*185/95)
											620 A	2*(3*240/120)
											700A	3*(3*150/70)

Table 17c: Condensing Unit Electrical Data (Screw Compressor)–R134a

Model	Per Compressor							Total		
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI
1SRCUS-50A	50	PW	59.3	70.9	79	206/355	42.4	59.3	70.9	42.4
1SRCUS-60A	60	PW	68.5	81.4	98	267/449	48.9	68.5	81.4	48.9
1SRCUS-70A	70	PW	77.3	91.9	124	290/485	55.5	77.3	91.9	55.5
1SRCUS-80A	80	PW	86.8	105.2	144	394/606	67.6	86.8	105.2	67.6
1SRCUS-90A	90	PW	101.6	123.7	155	439/675	77	101.6	123.7	77
2SRCUS-100A	50	PW	59.3	70.9	79	206/355	42.4	118.6	141.8	84.8
2SRCUS-120A	60	PW	68.5	81.4	98	267/449	48.9	137	162.8	97.8
2SRCUS-140A	70	PW	77.3	91.9	124	290/485	55.5	154.6	183.8	111
2SRCUS-160A	80	PW	86.8	105.2	144	394/606	67.6	173.6	210.4	135.2
2SRCUS-180A	90	PW	101.6	123.7	155	439/675	77	203.2	247.4	154
4SRCUS-200A	50	PW	59.3	70.9	79	206/355	42.4	237.2	283.6	169.6
4SRCUS-240A	60	PW	68.5	81.4	98	267/449	48.9	274	325.6	195.6
4SRCUS-280A	70	PW	77.3	91.9	124	290/485	55.5	309.2	367.6	222
4SRCUS-320A	80	PW	86.8	105.2	144	394/606	67.6	347.2	420.8	270.4
4SRCUS-360A	90	PW	101.6	123.7	155	439/675	77	406.4	494.8	308

NOTE

- System power supply = 380~400V/3 ϕ /50HZ
- RLA = Rated Load Ampere
- FLA = Full Load Ampere
- MOC = Maximum Operating Current
- LRA = Lock Rotor Ampere
- MPI = Maximum Power Input (kW)
- PW = Part Winding Start Type
- Cable size are based on copper conductor at maximum ambient temperature of 40°C and maximum distance of 70 meter.
- System total power input = chiller total power input+ air condenser total power input.
- System total ampere = chiller total ampere + air condenser total ampere.
- For system incoming wire sizing add the chiller total ampere and air condenser total ampere.
- All above data subject to change without notice.



Dimensions

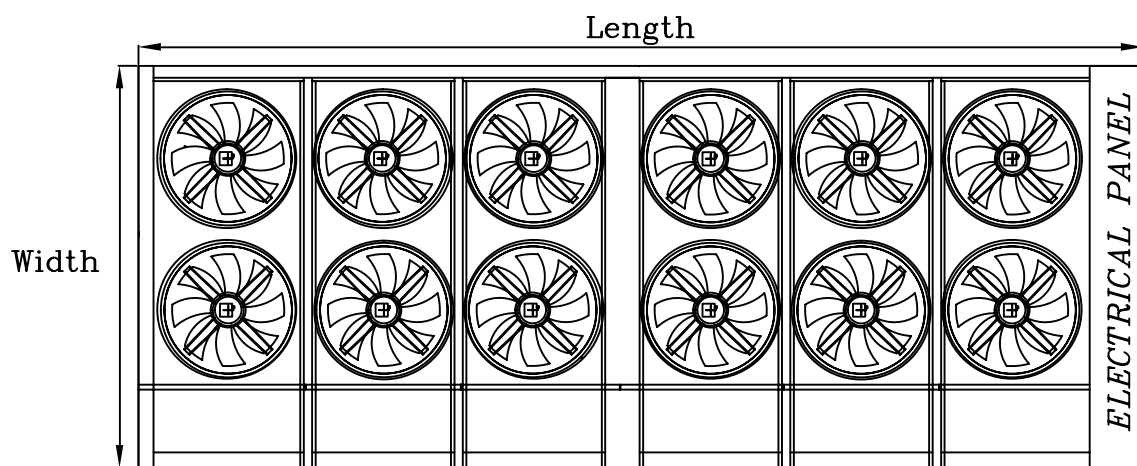


Table 18: Condensing unit dimensions (based on condenser model)

Condenser model of condensing unit	Coil Type	Length	Width	Height
075	F-Type	1440	1200	1400
110	F-Type	1440	2100	1400
150	F-Type	1440	2100	1400
225	V-Type	2120	2100	1450
300	V-Type	2120	2100	1450
375	V-Type	3010	2100	1450
450	V-Type	3010	2100	1750
600	V-Type	3100	2400	2200
750	V-Type	3800	2400	2200
900	W-Type	4850	2400	2350
1150	W-Type	4850	2400	2350
1500	W-Type	6500	2700	2400
1800	W-Type	6500	2700	2400
2000	W-Type	6500	3000	2500
2800	W-Type	7000	3300	2890
3200	W-Type	7000	3300	3090

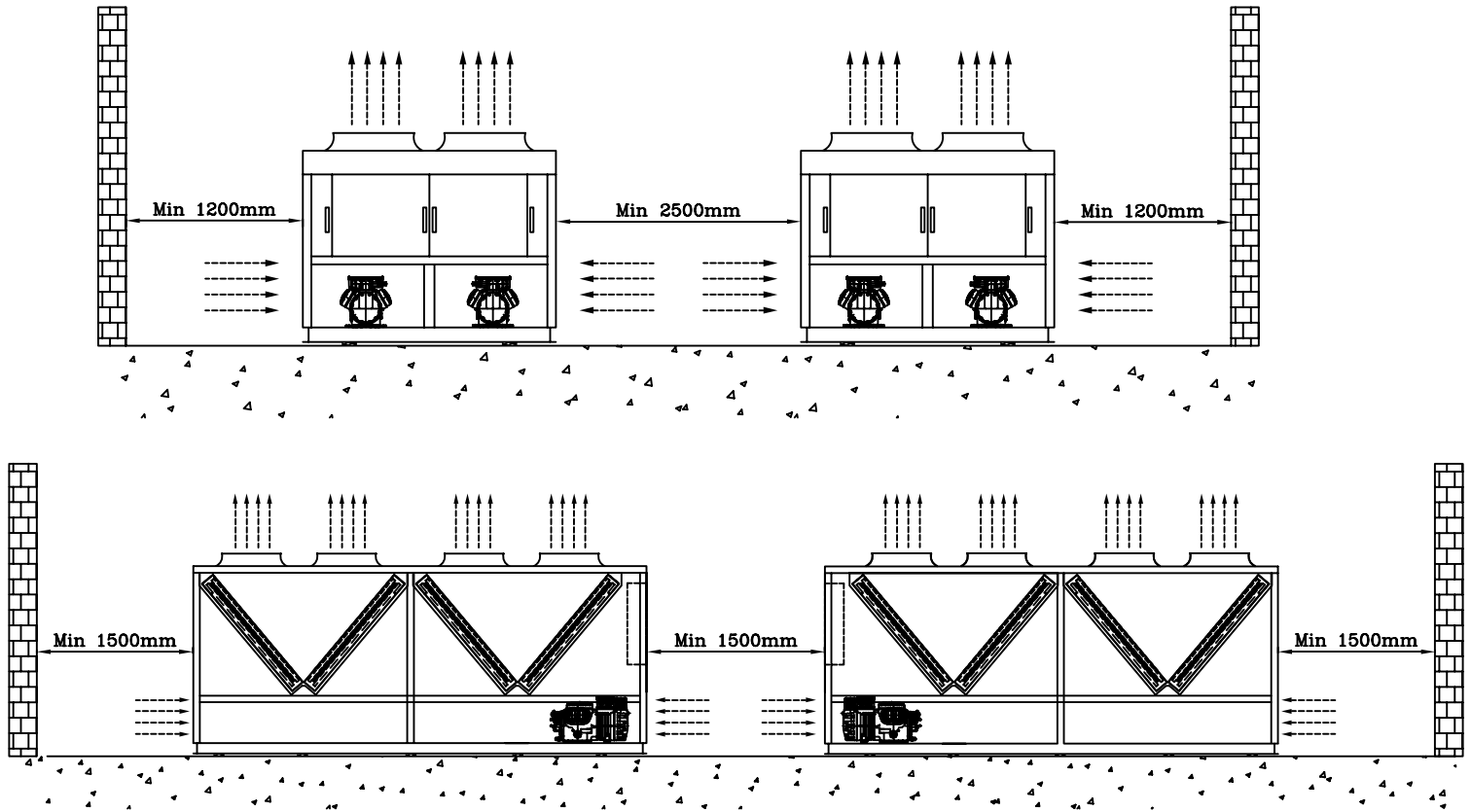
NOTE

- All dimensions are in millimeter.
- The above data is subject to change without notice.

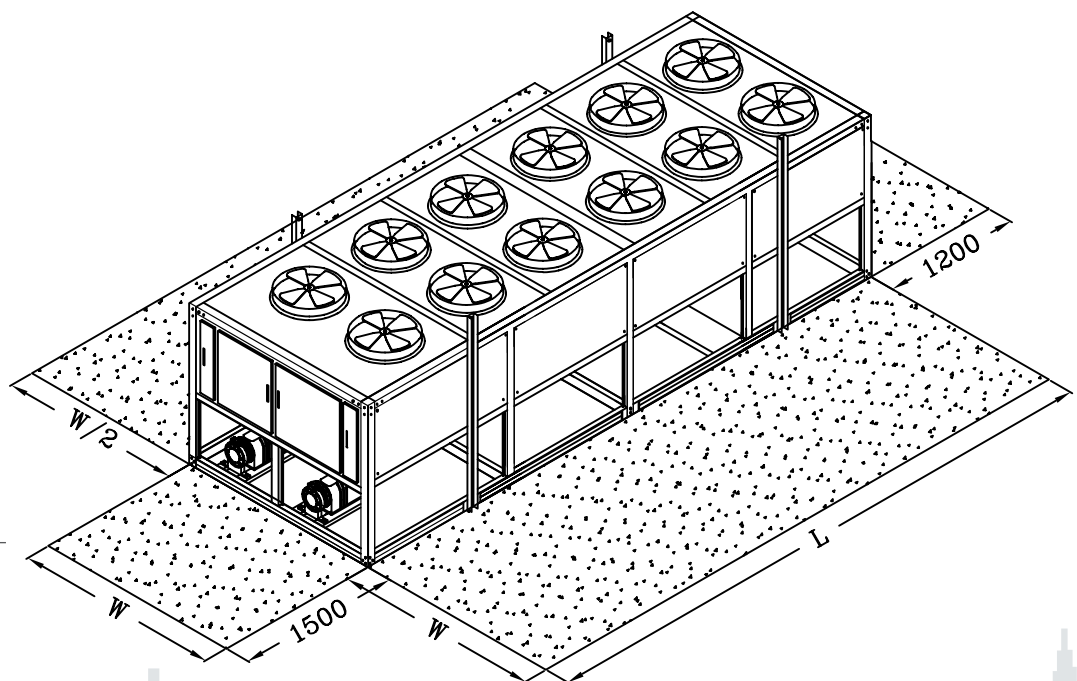
Installation Recommendation

Following points should be considered for installation location of the air-cooled condensing units:

- 1- Do not install the unit in air shaft, courtyard, or other places which is limited for the unit or it will maximize the vibration and noise because of the echo and resonance of the wall or other obstacles.
- 2- Space for access to front and sides of the equipment must be provided to accommodate such maintenance and service and to permit unobstructed flow of air to and from the unit.
- 3- Install the air-cooled condensing units in a way such that hot air distributed by the unit cannot be drawn in again (as in the case of short circuit of hot discharge air).
- 4- The unit should be have at least 1200 to 1500 millimeter distance from any wall or other obstacles base on following schematics:



- 5- Ensure that there is no obstruction of airflow into or out of the unit. Remove obstacles that block air intake or discharge.
- 6- The location must be well ventilated, so the unit can draw in and distribute plenty of air thus lowering the condensing temperature.
- 7- Set apart some service space. Space ranges are recommended in following schematics:

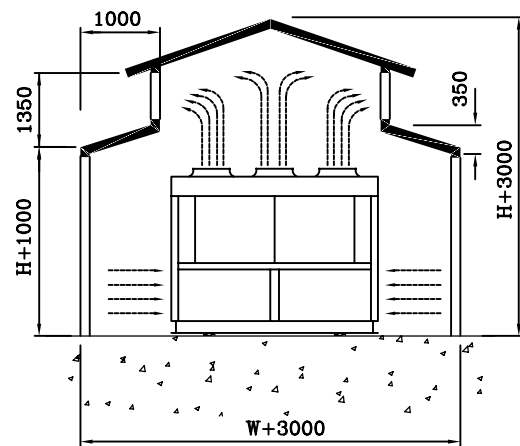
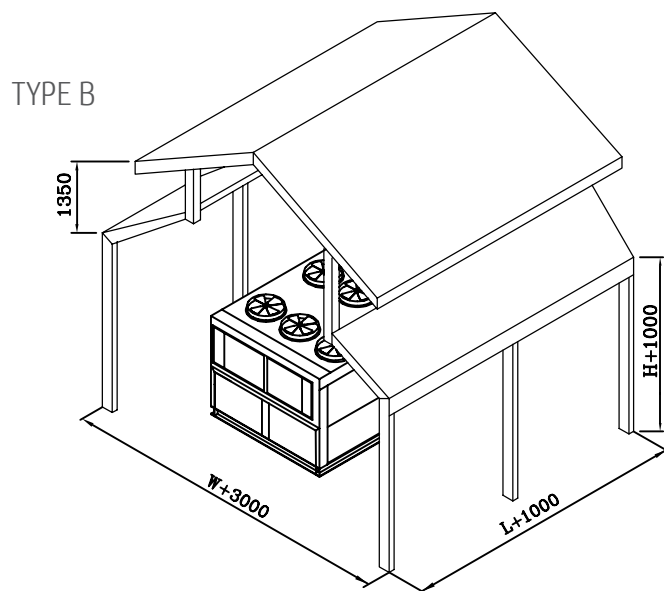
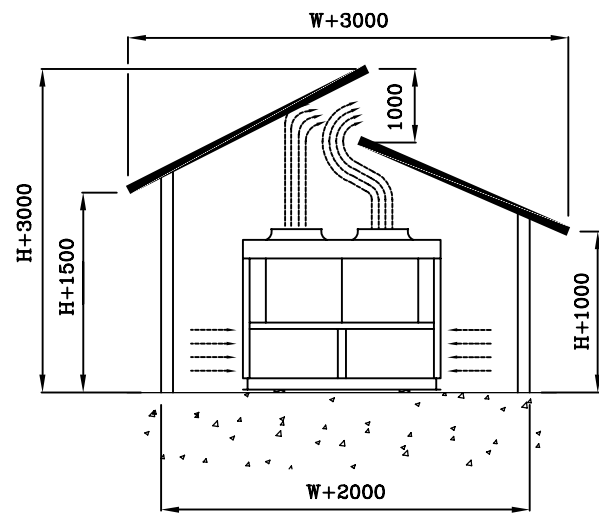
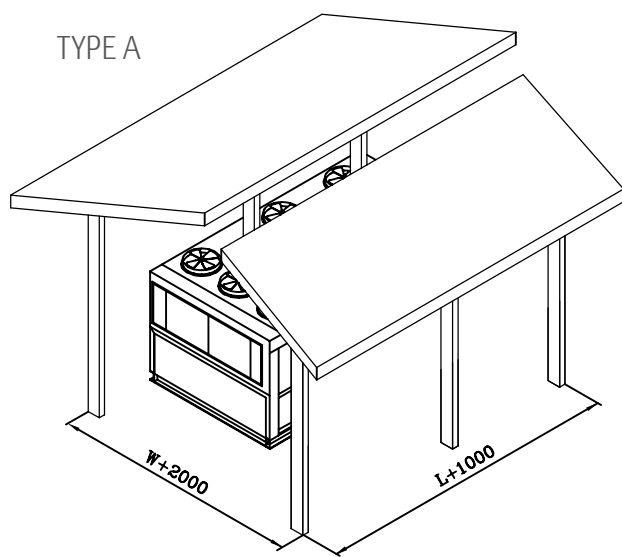


NOTE

- L: Condensing unit length
- W: Condensing unit width
- All dimensions are in millimeter



8- If the unit is installed in a high temperature environment, it is recommended to cover the unit with a shelter base on following schematic:



NOTE

- L: Condensing unit length
- W: Condensing unit width
- H: Condensing unit height
- All dimensions are in millimeter.

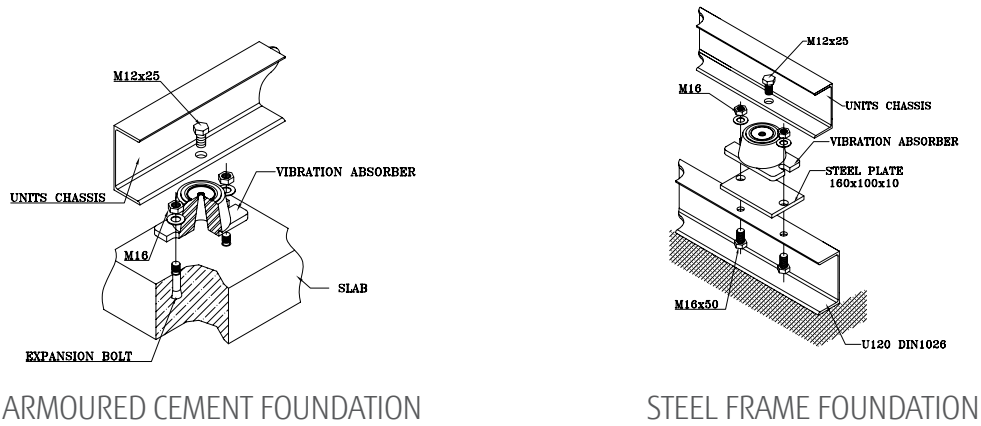
Bearing Platform:

1- The unit should be installed on concrete or steel structure bearing platform that is firm and the surface of the bearing platform should be smooth and flat. The intensity of the platform should hold the whole unit, if the intensity is not strong enough, it is easy to cause vibration and noise.

2- The surface of the concrete base platform normally has been plastered as horizontal ornament with waterproof treatment. The surrounding of it should have drainage sink placed, and the slope angle should be no less than 0.5% and the slope should lead to drainage outlet.

3- In order to maintain quiet operation and prevent the vibration and noise transmission from interfering the under floors, the absorber should be laid between the unit base and base platform. Please maintain horizontal when install the unit and mount anti vibration pad when it is necessary.

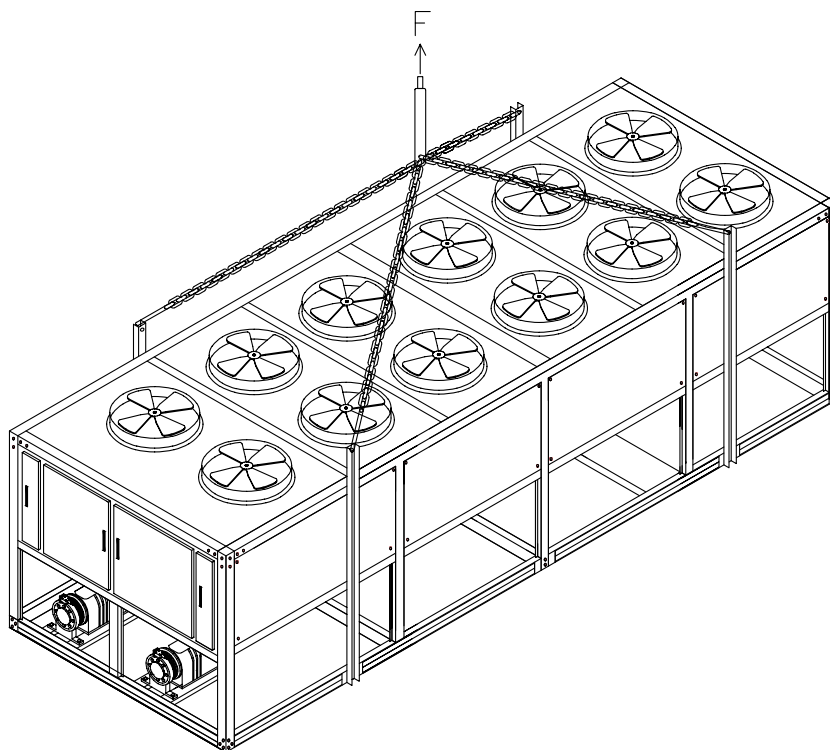
4- In order to keep connection pipe from being twisted to crack by earthquake, typhoon, or by long time running caused movement. The fixation method should be taken into consideration, refers to following examples for platform installation and fixation:



Hanging and Transporting of the Unit:

1- Each unit has been carefully tested and inspected at the factory where every precaution was taken to ensure that it reaches its destination in perfect condition. It is very important that the installers, movers, and riggers use the same care in handling the unit. Chains, cables, or other moving equipment should be placed to avoid damage to any part of the unit. For proper method of rigging consult the label on the unit.

2- To prevent any damage to the unit, at least 45 degree angle between the unit and the hosting chain should be maintained.



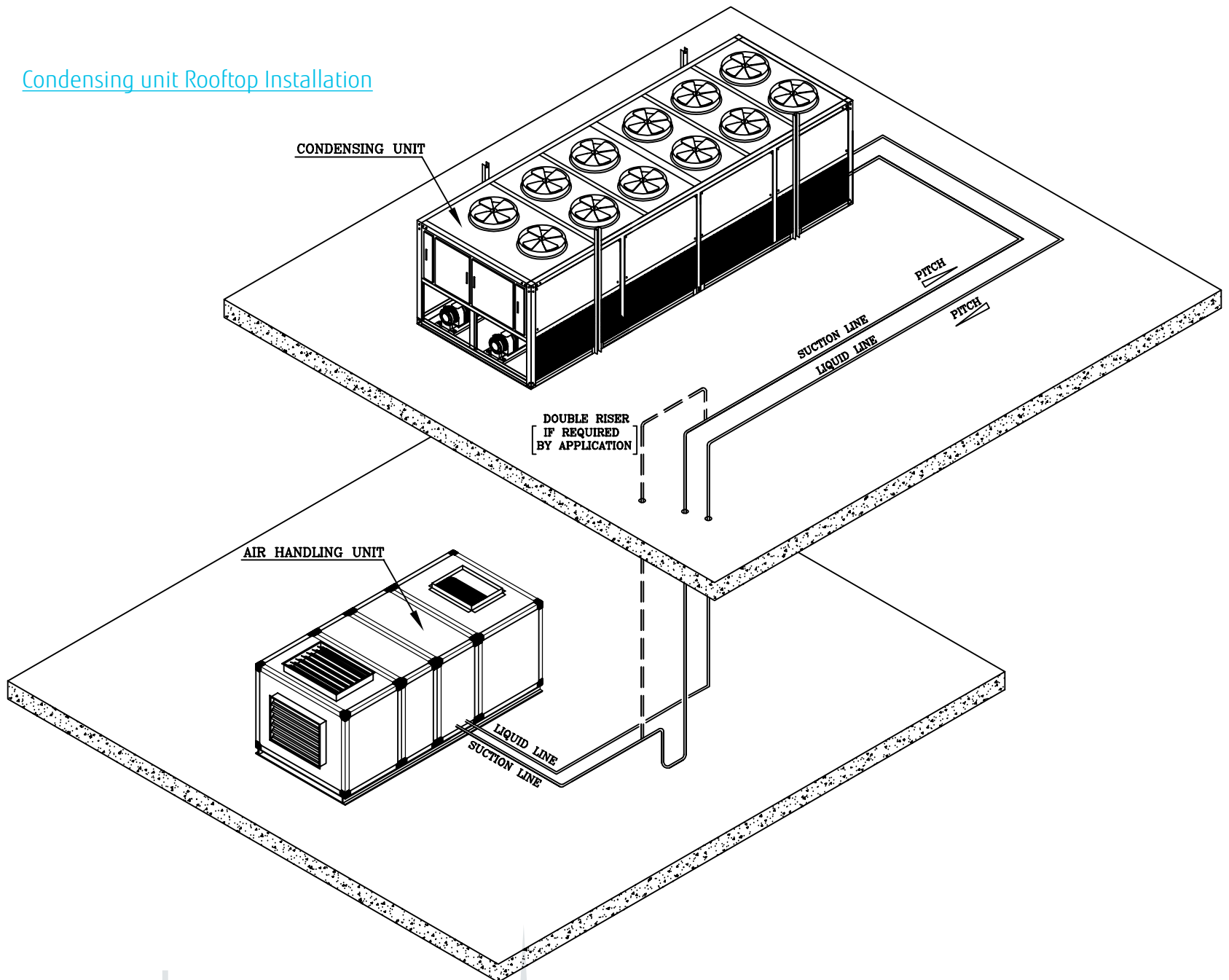


Recommended Piping Diagram

Following points should be considered for refrigerant piping between condensing unit and air handling unit (or remote evaporator):

- 1- All horizontal piping segments should be sloped 1/8 inch per feet (10.4 mm/m) in the direction of refrigerant flow.
- 2- Whenever an air handling unit (or remote evaporator) is located above the condensing unit, to minimize slugging of condensed refrigerant, the evaporators should be isolated from the suction line with an inverted trap as shown in following figures.

Condensing unit Rooftop Installation





Recommended Piping Diagram (Cont.)

Condensing unit Ground Level Installation

