



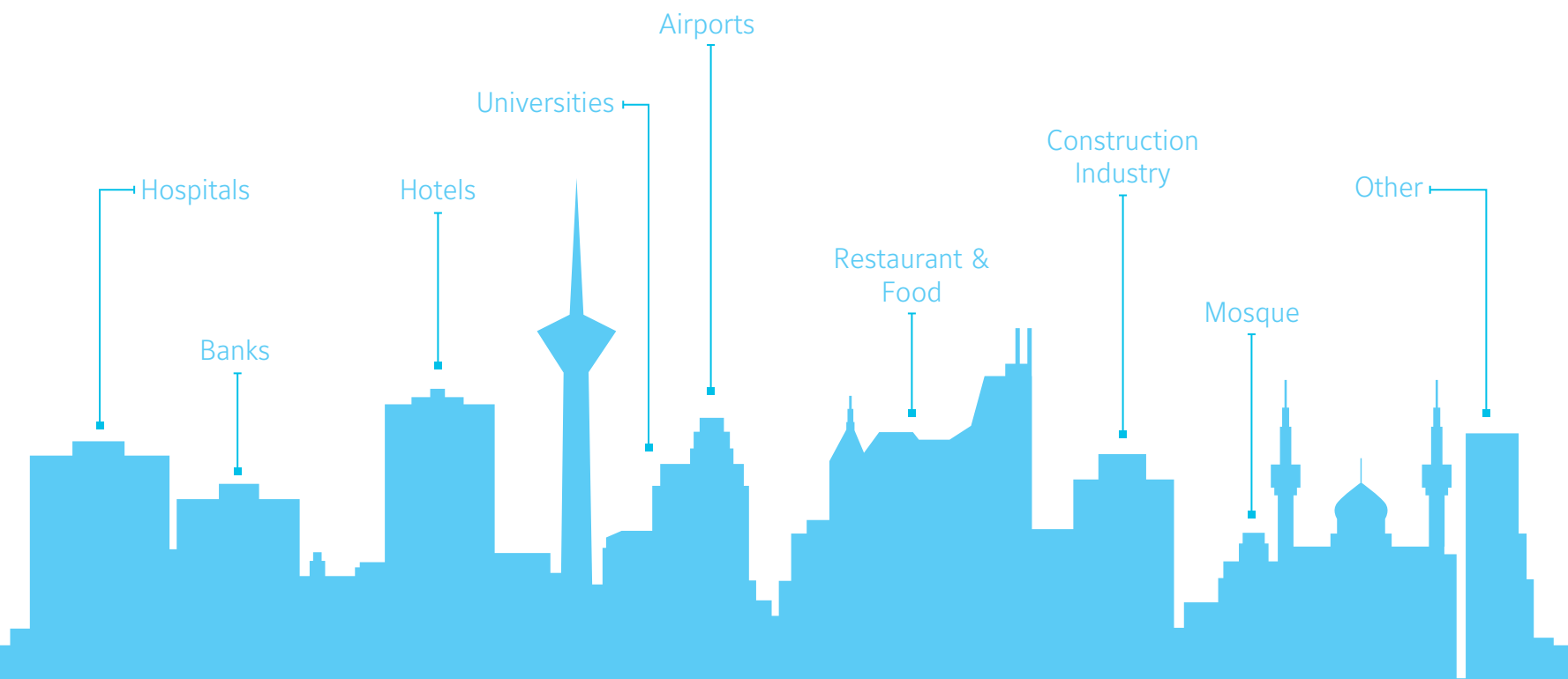
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REMOTE AIR-COOLED CHILLER

Saran

Life's Pleasant Breeze



AIR CONDITIONING MFG.GROUP

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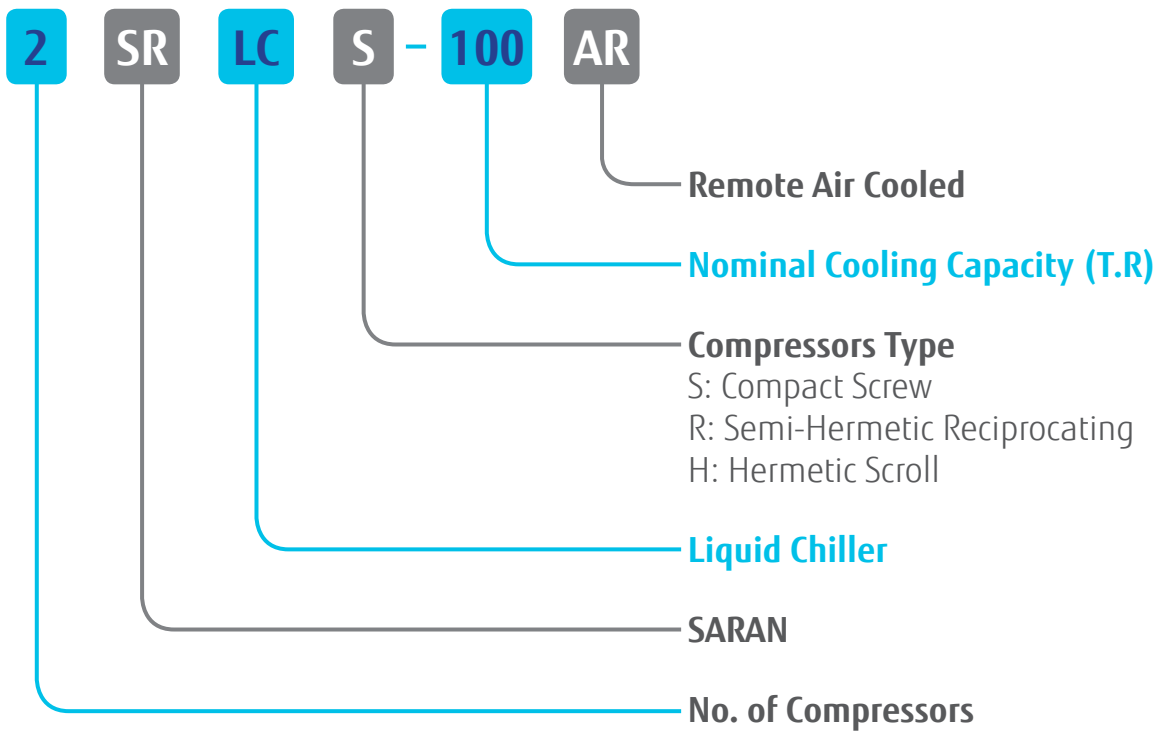


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NOMENCLATURE





Introduction

Saran remote air-cooled chillers are the premium solution for commercial and industrial applications where installers, consultants and building owner require optimal performances and maximum quality.

Saran remote air-cooled chillers are available in the capacity range of 5 to 720 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 remote air-cooled chillers selected from reliable and famous international brands or designed and constructed base on international air-conditioning equipment's standards.

Main Features

Compressor

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

Evaporator

The evaporators of all units are designed and constructed base on the TEMA and ASME-Section VII code, respectively. The enhanced surface tubes use in all shell and tube evaporators to achieve much more compact and efficient units. (Shell and tube, direct-expansion type evaporators used in all units, however other types of evaporators also available upon request).

Refrigerant

Saran remote air-cooled chillers 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 remote air-cooled chillers equipped with various safety and operating controls such as, high and low pressure cutout, oil level control, water anti freeze thermostat, water flow switch, evaporator entering water thermostat, 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 remote air-cooled chiller models presented in the “Performance Data” tables; cover the most frequently encountered leaving water temperatures.

The remote air-cooled chillers are rated over a range of leaving water temperatures of 42°F to 46°F and condensing temperatures of 115°F to 130°F (up to 140°F for R-134a).

To select a Saran remote air-cooled chiller, the following information is required:

- 1- Design system load (Btu/h)
- 2- Design leaving water temperature (°F)
- 3- Design chilled water range (°F)
- 4- Evaporator fouling factor (h.ft².°F/Btu)
- 5- Design ambient temperature (°F)

Chilled Water Flow and Range

Required cooling capacity and the desired chilled water range are two important factors in determining the amount of water to be circulate in the evaporator. The following formula used for determining chilled water flow:

$$\text{Chilled Water Flow (GPM)} = \frac{24 \times \text{Cooling Capacity (TR)}}{\text{Chilled Water Range (°F)}}$$

Performance tables in this catalogue are based on a 10°F temperature drop through the evaporator. In other conditions please using following correction factors for performance data:

Table 1: Chilled Water Range Correction Factors

Chilled Water Range (°F)	Capacity Multiplier	Power Multiplier
6	0.992	0.995
8	0.995	0.997
10	1.000	1.000
12	1.005	1.002
14	1.010	1.005
16	1.014	1.007

Fouling factor

The cooling capacity of the remote air-cooled chillers in this catalogue permit a fouling factor of 0.0001 h.ft².°F/Btu (ARI Standard 550/590-98) for the evaporators. In other conditions please using following correction factors for performance data:

Table 2: Fouling Factor Correction Factors

Fouling factor (h.ft ² .°F/Btu)	Capacity Multiplier	Power Multiplier
0.00010	1	1
0.00025	0.992	0.997
0.00050	0.978	0.990
0.00075	0.965	0.984
0.00100	0.951	0.978

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 chillers and its corresponding condensers.

Standard condition

Saran remote air-cooled chiller rating data presented in the “Performance Data” tables indicate capacity of the chiller at the following condition:

- Chilled water range: 10°F
- Condensing temperature: 120°F
- Fouling factor: 0.0001 h.ft².°F/Btu

For other condition, performance adjustment factors shall be attend in unit selection base on following formula:

Actual cooling capacity (MBH) = C1 x C2 x C3 x QE;

Actual compressor power input (kW) = C1 x C2 x C3 x WC;

Actual chiller required condenser total heat rejection (MBH) = C3 x QC;

- QE: Cooling capacity in performance data tables (Table 3a~11a)
- WC: Compressor power input in performance data tables (Table 3a~11a)
- QC: Condenser total heat rejection in performance data tables (Table 3a~11a)
- C1: Chilled water range correction factor (Table-1)
- C2: Fouling factor correction factor (Table-2)
- C3: Condensing temperature correction factor (Table 3b~11b)



Selection Example

Given:

Design chilled water flow rate = 150 GPM

Design chilled water range = 10°F

Evaporator leaving water temperature = 45°F

Ambient temperature = 104°F

Evaporator fouling factor = 0.0001 h.ft².°F/Btu

Refrigerant = R134a

Compressor type = Screw

Solution:

Step 1: Cooling capacity calculation

To calculate the required cooling capacity, we use the following formula:

Cooling Capacity (TR) = Chilled Water Flow (GPM) x Chilled Water Range (°F) / 24;

So in this problem, our required cooling capacity is 62.5 TR (750 MBH);

Step 2: Chiller model selection

By referring to the performance data tables (Screw – R134a), we can see cooling capacity, compressor power input and condenser total heat rejection of 2SRLCS-100AR (in condenser temperature of 120°F) are 789 MBH, 66 kW and 1003 MBH, respectively. So we select this unit in first step and in the next step, we will check its final performance in the given condition.

Step 3: Real Cooling Capacity of Selected Unit in the given condition

Assuming 21°F condensing range, our condenser temperature is 125°F, so by referring to correction factor table (Screw – R134a), we can see performance correction factor of selected unit for cooling capacity, compressor power input and condenser total heat rejection is 0.9560, 1.0568 and 0.9778, respectively. By above value will have:

Cooling capacity = 789 * 0.9560 = 754.3 MBH

Compressor power input = 66 * 1.0568 = 69.7 kW

Condenser total heat rejection = 1003 * 0.9778 = 980.7 MBH

So, cooling capacity of 2SRLCS-100AR satisfy our requirements and our selection in previous step is correct.

Step 4: Condenser model selection

In pervious step, we extract our chiller's total heat rejection (QC), so by referring to Saran air-cooled condenser catalogue we can select an appropriate condenser(s).

Step 5: Evaporator pressure drop

To estimate pressure drop of selected chiller, by referring to 2SRLCS-100AR pressure drop graph, we can see this unit's pressure drop in 150 GPM is 9 foot of water.

Performance Data

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

Models	Evaporator Leaving Water Temperature														
	42°F			43°F			44°F			45°F			46°F		
	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
1SRLCH-5AR	45	3.9	57	46	3.9	58	47	3.9	59	48	3.9	60	49	3.9	61
1SRLCH-7.5AR	72	6.0	91	74	6.0	93	75	6.0	95	77	6.0	96	78	6.0	98
1SRLCH-10AR	97	7.9	122	99	7.9	124	101	7.9	126	103	7.9	128	105	7.9	130
1SRLCH-15AR	141	11.8	181	144	11.8	184	147	11.8	187	150	11.8	190	153	11.9	193
1SRLCH-20AR	190	16.2	245	193	16.2	249	197	16.2	253	201	16.3	257	205	16.3	261
1SRLCH-25AR	242	20.2	311	247	20.3	316	252	20.3	322	258	20.4	327	263	20.4	333
1SRLCH-30AR	293	24.3	376	299	24.4	382	305	24.4	388	311	24.5	394	317	24.5	401
2SRLCH-10AR	89	7.8	115	91	7.8	117	93	7.8	119	95	7.8	121	97	7.8	123
2SRLCH-15AR	144	11.9	183	147	11.9	186	150	11.9	189	154	11.9	192	157	11.9	196
2SRLCH-20AR	193	15.8	244	197	15.8	248	201	15.8	252	205	15.8	256	209	15.8	260
2SRLCH-30AR	281	23.6	362	287	23.6	368	293	23.7	374	299	23.7	380	305	23.7	386
2SRLCH-40AR	379	32.3	490	387	32.4	497	395	32.5	506	403	32.5	514	411	32.6	522
2SRLCH-50AR	484	40.4	622	494	40.5	633	505	40.6	643	515	40.7	654	526	40.9	665
2SRLCH-60AR	586	48.7	752	597	48.8	764	609	48.9	776	622	49.0	789	634	49.1	801
4SRLCH-60AR	563	47.2	724	574	47.3	736	586	47.3	748	598	47.4	760	610	47.4	772
4SRLCH-80AR	758	64.7	979	774	64.8	995	790	64.9	1011	806	65.0	1028	822	65.2	1044
4SRLCH-100AR	968	80.8	1244	988	81.0	1265	1009	81.3	1286	1030	81.5	1308	1052	81.7	1330
4SRLCH-120AR	1171	97.4	1504	1195	97.5	1528	1219	97.7	1552	1243	97.9	1577	1268	98.1	1603

Table 3b: Performance Correction Factors (Scroll Compressor) - R22

Models	Condensing Temperature											
	115°F			120°F			125°F			130°F		
	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
1SRLCH-5AR	1.0330	0.9462	1.0138	1.0000	1.0000	1.0000	0.9683	1.0590	0.9872	0.9365	1.1215	0.9761
1SRLCH-7.5AR	1.0314	0.9420	1.0129	1.0000	1.0000	1.0000	0.9670	1.0627	0.9865	0.9322	1.1297	0.9729
1SRLCH-10AR	1.0253	0.9401	1.0119	1.0000	1.0000	1.0000	0.9703	1.0642	0.9905	0.9397	1.1338	0.9810
1SRLCH-15AR	1.0273	0.9459	1.0098	1.0000	1.0000	1.0000	0.9720	1.0575	0.9906	0.9435	1.1189	0.9814
1SRLCH-20AR	1.0292	0.9496	1.0117	1.0000	1.0000	1.0000	0.9701	1.0540	0.9883	0.9395	1.1115	0.9772
1SRLCH-25AR	1.0306	0.9515	1.0135	1.0000	1.0000	1.0000	0.9687	1.0519	0.9866	0.9507	1.1074	0.9737
1SRLCH-30AR	1.0283	0.9512	1.0117	1.0000	1.0000	1.0000	0.9710	1.0523	0.9900	0.9413	1.1083	0.9772
2SRLCH-10AR	1.0330	0.9462	1.0138	1.0000	1.0000	1.0000	0.9683	1.0590	0.9872	0.9365	1.1215	0.9761
2SRLCH-15AR	1.0314	0.9420	1.0129	1.0000	1.0000	1.0000	0.9670	1.0627	0.9865	0.9322	1.1297	0.9729
2SRLCH-20AR	1.0253	0.9401	1.0119	1.0000	1.0000	1.0000	0.9703	1.0642	0.9905	0.9397	1.1338	0.9810
2SRLCH-30AR	1.0273	0.9459	1.0098	1.0000	1.0000	1.0000	0.9720	1.0575	0.9906	0.9435	1.1189	0.9814
2SRLCH-40AR	1.0292	0.9496	1.0117	1.0000	1.0000	1.0000	0.9701	1.0540	0.9883	0.9395	1.1115	0.9772
2SRLCH-50AR	1.0306	0.9515	1.0135	1.0000	1.0000	1.0000	0.9687	1.0519	0.9866	0.9507	1.1074	0.9737
2SRLCH-60AR	1.0283	0.9512	1.0117	1.0000	1.0000	1.0000	0.9710	1.0523	0.9900	0.9413	1.1083	0.9772
4SRLCH-60AR	1.0273	0.9459	1.0098	1.0000	1.0000	1.0000	0.9720	1.0575	0.9906	0.9435	1.1189	0.9814
4SRLCH-80AR	1.0292	0.9496	1.0117	1.0000	1.0000	1.0000	0.9701	1.0540	0.9883	0.9395	1.1115	0.9772
4SRLCH-100AR	1.0306	0.9515	1.0135	1.0000	1.0000	1.0000	0.9687	1.0519	0.9866	0.9507	1.1074	0.9737
4SRLCH-120AR	1.0283	0.9512	1.0117	1.0000	1.0000	1.0000	0.9710	1.0523	0.9900	0.9413	1.1083	0.9772

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3 ϕ ,50HZ)
- QC = Condenser Total Heat Rejection
- All above data are based on standard condition (refer to page 6).
- 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 Leaving Water Temperature														
	42°F			43°F			44°F			45°F			46°F		
	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
1SRLCH-5AR	45	3.9	57	45	3.9	58	46	3.9	59	47	3.9	60	48	3.9	61
1SRLCH-7.5AR	71	6.1	91	73	6.1	93	74	6.1	94	76	6.1	96	78	6.1	97
1SRLCH-10AR	93	7.8	119	95	7.8	121	97	7.8	123	99	7.8	125	102	7.9	127
1SRLCH-15AR	132	12.2	173	135	12.2	176	138	12.2	179	141	12.2	183	144	12.2	186
1SRLCH-20AR	182	16.3	238	186	16.4	242	190	16.4	246	195	16.4	251	199	16.4	255
1SRLCH-25AR	224	19.9	292	229	20.0	297	234	20.0	302	239	20.0	308	244	20.1	313
1SRLCH-30AR	277	24.4	360	283	24.4	366	289	24.4	372	295	24.5	379	302	24.5	385
2SRLCH-10AR	89	7.9	114	91	7.9	116	93	7.9	118	94	7.9	120	96	7.9	122
2SRLCH-15AR	142	12.2	182	145	12.2	185	149	12.2	188	152	12.2	192	155	12.2	195
2SRLCH-20AR	186	15.7	237	190	15.7	241	195	15.7	245	199	15.7	250	203	15.7	254
2SRLCH-30AR	264	24.4	347	270	24.4	353	276	24.4	359	282	24.4	365	288	24.4	371
2SRLCH-40AR	364	32.6	475	372	32.7	484	381	32.7	492	389	32.8	501	398	32.8	510
2SRLCH-50AR	449	39.9	585	458	39.9	595	468	40.0	605	478	40.1	615	489	40.2	626
2SRLCH-60AR	554	48.7	720	566	48.8	732	578	48.9	745	590	48.9	757	603	49.0	770
4SRLCH-60AR	528	48.7	694	539	48.7	706	551	48.7	718	564	48.8	730	576	48.8	742
4SRLCH-80AR	728	65.3	951	744	65.4	968	761	65.5	984	778	65.6	1002	795	65.7	1020
4SRLCH-100AR	898	79.7	1170	917	79.9	1190	937	80.0	1210	957	80.2	1230	977	80.3	1251
4SRLCH-120AR	1108	97.4	1440	1132	97.6	1465	1156	97.7	1490	1181	97.8	1515	1206	98.0	1540

Table 4b: Performance Correction Factors (Scroll Compressor) - R407C

Models	Condensing Temperature											
	115°F			120°F			125°F			130°F		
	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
1SRLCH-5AR	1.0315	0.9338	1.0105	1.0000	1.0000	1.0000	0.9672	1.0702	0.9898	0.9339	1.1461	0.9797
1SRLCH-7.5AR	1.0355	0.9361	1.0144	1.0000	1.0000	1.0000	0.9626	1.0691	0.9847	0.9217	1.1435	0.9684
1SRLCH-10AR	1.0347	0.9378	1.0147	1.0000	1.0000	1.0000	0.9636	1.0676	0.9862	0.9255	1.1403	0.9699
1SRLCH-15AR	1.0337	0.9412	1.0122	1.0000	1.0000	1.0000	0.9652	1.0634	0.9879	0.9295	1.1312	0.9761
1SRLCH-20AR	1.0351	0.9443	1.0144	1.0000	1.0000	1.0000	0.9642	1.0599	0.9859	0.9277	1.1240	0.9722
1SRLCH-25AR	1.0319	0.9419	1.0115	1.0000	1.0000	1.0000	0.9666	1.0611	0.9879	0.9376	1.1249	0.9754
1SRLCH-30AR	1.0335	0.9449	1.0136	1.0000	1.0000	1.0000	0.9655	1.0588	0.9865	0.9303	1.1214	0.9731
2SRLCH-10AR	1.0315	0.9338	1.0105	1.0000	1.0000	1.0000	0.9672	1.0702	0.9898	0.9339	1.1461	0.9797
2SRLCH-15AR	1.0355	0.9361	1.0144	1.0000	1.0000	1.0000	0.9626	1.0691	0.9847	0.9217	1.1435	0.9684
2SRLCH-20AR	1.0347	0.9378	1.0147	1.0000	1.0000	1.0000	0.9636	1.0676	0.9862	0.9255	1.1403	0.9699
2SRLCH-30AR	1.0337	0.9412	1.0122	1.0000	1.0000	1.0000	0.9652	1.0634	0.9879	0.9295	1.1312	0.9761
2SRLCH-40AR	1.0351	0.9443	1.0144	1.0000	1.0000	1.0000	0.9642	1.0599	0.9859	0.9277	1.1240	0.9722
2SRLCH-50AR	1.0319	0.9419	1.0115	1.0000	1.0000	1.0000	0.9666	1.0611	0.9879	0.9376	1.1249	0.9754
2SRLCH-60AR	1.0335	0.9449	1.0136	1.0000	1.0000	1.0000	0.9655	1.0588	0.9865	0.9303	1.1214	0.9731
4SRLCH-60AR	1.0337	0.9412	1.0122	1.0000	1.0000	1.0000	0.9652	1.0634	0.9879	0.9295	1.1312	0.9761
4SRLCH-80AR	1.0351	0.9443	1.0144	1.0000	1.0000	1.0000	0.9642	1.0599	0.9859	0.9277	1.1240	0.9722
4SRLCH-100AR	1.0319	0.9419	1.0115	1.0000	1.0000	1.0000	0.9666	1.0611	0.9879	0.9376	1.1249	0.9754
4SRLCH-120AR	1.0335	0.9449	1.0136	1.0000	1.0000	1.0000	0.9655	1.0588	0.9865	0.9303	1.1214	0.9731

NOTE

- 1MBH = 1000 Btu/hr- QE = Actual Cooling Capacity - WC = Compressor Motor Power Input (380V,3 ϕ ,50HZ)
- QC = Condenser Total Heat Rejection
- All above data are based on standard condition (refer to page 6).
- 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 Leaving Water Temperature														
	42°F			43°F			44°F			45°F			46°F		
	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
1SRLCH-5AR	30	2.6	39	31	2.6	40	32	2.7	40	33	2.7	41	34	2.7	42
1SRLCH-7.5AR	46	4.1	60	47	4.1	61	49	4.1	62	50	4.1	63	51	4.1	64
1SRLCH-10AR	63	5.3	80	64	5.3	81	66	5.3	83	67	5.3	84	69	5.3	86
1SRLCH-15AR	94	8.4	121	96	8.4	123	98	8.4	125	100	8.4	128	103	8.4	130
1SRLCH-20AR	122	11.3	161	125	11.3	164	128	11.3	167	131	11.4	170	134	11.4	173
1SRLCH-25AR	153	14.0	201	156	14.1	204	160	14.1	208	164	14.1	212	168	14.1	216
1SRLCH-30AR	192	16.8	250	197	16.8	254	201	16.9	259	206	16.9	263	210	16.9	268
2SRLCH-10AR	61	5.3	78	62	5.3	79	64	5.3	81	65	5.3	82	67	5.3	84
2SRLCH-15AR	92	8.3	119	95	8.3	121	97	8.3	124	99	8.3	126	102	8.3	128
2SRLCH-20AR	126	10.6	160	128	10.6	163	131	10.6	166	134	10.6	169	137	10.6	172
2SRLCH-30AR	187	16.8	241	191	16.8	246	196	16.8	250	200	16.8	255	205	16.8	259
2SRLCH-40AR	245	22.6	322	251	22.6	328	256	22.7	334	262	22.7	340	269	22.7	346
2SRLCH-50AR	306	28.1	402	313	28.1	409	320	28.2	416	327	28.2	424	335	28.3	431
2SRLCH-60AR	385	33.6	499	393	33.7	508	402	33.7	517	411	33.8	527	421	33.8	536
4SRLCH-60AR	374	33.5	482	383	33.5	492	392	33.6	500	400	33.6	510	410	33.6	518
4SRLCH-80AR	490	45.2	644	501	45.3	656	513	45.3	668	525	45.4	680	537	45.4	692
4SRLCH-100AR	612	56.2	803	626	56.2	818	640	56.3	832	655	56.4	848	670	56.5	863
4SRLCH-120AR	770	67.2	999	787	67.3	1017	805	67.4	1035	823	67.5	1053	841	67.6	1072

Table 5b: Performance Correction Factors (Scroll Compressor) - R134a

Models	Evaporator Leaving Water Temperature														
	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
	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH
1SRLCH-5AR	1.0000	1.0000	1.0000	0.9675	1.0597	0.9876	0.9343	1.1240	0.9768	0.9017	1.1920	0.9649	0.8691	1.2653	0.9540
1SRLCH-7.5AR	1.0000	1.0000	1.0000	0.9596	1.0625	0.9822	0.9171	1.1298	0.9638	0.8737	1.2024	0.9453	0.8275	1.2809	0.9266
1SRLCH-10AR	1.0000	1.0000	1.0000	0.9671	1.0580	0.9860	0.9330	1.1202	0.9723	0.8977	1.1861	0.9576	0.8612	1.2558	0.9433
1SRLCH-15AR	1.0000	1.0000	1.0000	0.9651	1.0591	0.9848	0.9285	1.1228	0.9704	0.8907	1.1907	0.9561	0.8519	1.2637	0.9408
1SRLCH-20AR	1.0000	1.0000	1.0000	0.9677	1.0536	0.9877	0.9348	1.1101	0.9757	0.9019	1.1699	0.9642	0.8684	1.2329	0.9530
1SRLCH-25AR	1.0000	1.0000	1.0000	0.9674	1.0547	0.9875	0.9344	1.1123	0.9755	0.9012	1.1732	0.9639	0.8676	1.2377	0.9531
1SRLCH-30AR	1.0000	1.0000	1.0000	0.9683	1.0534	0.9872	0.9360	1.1096	0.9814	0.9035	1.1691	0.9625	0.8704	1.2321	0.9509
2SRLCH-10AR	1.0000	1.0000	1.0000	0.9675	1.0597	0.9876	0.9343	1.1240	0.9768	0.9017	1.1920	0.9649	0.8691	1.2653	0.9540
2SRLCH-15AR	1.0000	1.0000	1.0000	0.9596	1.0625	0.9822	0.9171	1.1298	0.9638	0.8737	1.2024	0.9453	0.8275	1.2809	0.9266
2SRLCH-20AR	1.0000	1.0000	1.0000	0.9671	1.0580	0.9860	0.9330	1.1202	0.9723	0.8977	1.1861	0.9576	0.8612	1.2558	0.9433
2SRLCH-30AR	1.0000	1.0000	1.0000	0.9651	1.0591	0.9848	0.9285	1.1228	0.9704	0.8907	1.1907	0.9561	0.8519	1.2637	0.9408
2SRLCH-40AR	1.0000	1.0000	1.0000	0.9677	1.0536	0.9877	0.9348	1.1101	0.9757	0.9019	1.1699	0.9642	0.8684	1.2329	0.9530
2SRLCH-50AR	1.0000	1.0000	1.0000	0.9674	1.0547	0.9875	0.9344	1.1123	0.9755	0.9012	1.1732	0.9639	0.8676	1.2377	0.9531
2SRLCH-60AR	1.0000	1.0000	1.0000	0.9683	1.0534	0.9872	0.9360	1.1096	0.9814	0.9035	1.1691	0.9625	0.8704	1.2321	0.9509
4SRLCH-60AR	1.0000	1.0000	1.0000	0.9651	1.0591	0.9848	0.9285	1.1228	0.9704	0.8907	1.1907	0.9561	0.8519	1.2637	0.9408
4SRLCH-80AR	1.0000	1.0000	1.0000	0.9677	1.0536	0.9877	0.9348	1.1101	0.9757	0.9019	1.1699	0.9642	0.8684	1.2329	0.9530
4SRLCH-100AR	1.0000	1.0000	1.0000	0.9674	1.0547	0.9875	0.9344	1.1123	0.9755	0.9012	1.1732	0.9639	0.8676	1.2377	0.9531
4SRLCH-120AR	1.0000	1.0000	1.0000	0.9683	1.0534	0.9872	0.9360	1.1096	0.9814	0.9035	1.1691	0.9625	0.8704	1.2321	0.9509

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3φ,50HZ)
- QC = Condenser Total Heat Rejection
- All above data are based on standard condition (refer to page 6).
- 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 Leaving Water Temperature														
	42°F			43°F			44°F			45°F			46°F		
	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
1SRLCR-5AR	49	4.4	63	50	4.4	64	51	4.5	66	52	4.5	67	53	4.5	68
1SRLCR-7.5AR	74	6.7	96	76	6.7	98	77	6.7	99	79	6.8	101	81	6.8	103
1SRLCR-10AR	100	8.3	127	102	8.4	129	104	8.4	132	107	8.5	134	109	8.5	137
1SRLCR-15AR	138	11.7	176	141	11.7	179	144	11.8	183	148	11.9	186	151	12.0	190
1SRLCR-20AR	163	13.7	207	166	13.8	211	170	13.8	215	174	13.9	219	177	14.0	223
1SRLCR-25AR	216	18.3	276	221	18.4	281	226	18.6	286	231	18.7	291	236	18.8	297
1SRLCR-30AR	251	21.1	319	256	21.2	325	262	21.3	331	267	21.5	337	273	21.6	343
1SRLCR-35AR	325	27.8	415	332	28.0	422	339	28.1	430	346	28.3	438	354	28.4	446
1SRLCR-40AR	373	31.7	475	381	31.9	484	389	32.0	493	398	32.2	502	406	32.4	511
1SRLCR-50AR	448	38.4	573	458	38.6	583	468	38.8	594	478	39.0	605	489	39.2	616
1SRLCR-60AR	524	46.9	676	535	47.2	688	546	47.4	700	557	47.7	712	569	47.9	724
2SRLCR-10AR	98	8.8	126	100	8.9	129	102	8.9	131	104	9.0	134	107	9.0	136
2SRLCR-15AR	148	13.3	192	152	13.4	195	155	13.5	199	158	13.5	202	162	13.6	206
2SRLCR-20AR	200	16.7	254	204	16.8	258	209	16.9	263	213	17.0	268	218	17.1	273
2SRLCR-30AR	276	23.3	352	283	23.5	359	289	23.6	365	295	23.8	372	302	23.9	379
2SRLCR-40AR	325	27.3	414	333	27.5	422	340	27.7	430	347	27.8	438	355	28.0	446
2SRLCR-50AR	433	36.7	552	442	36.9	562	452	37.1	572	462	37.3	583	472	37.5	593
2SRLCR-60AR	502	42.2	638	512	42.5	650	524	42.7	662	535	42.9	674	546	43.1	686
2SRLCR-70AR	649	55.6	829	663	55.9	845	678	56.2	860	693	56.5	876	707	56.9	892
2SRLCR-80AR	745	63.3	951	762	63.7	968	778	64.1	986	795	64.4	1004	812	64.8	1022
2SRLCR-100AR	897	76.8	1146	916	77.2	1167	936	77.7	1188	957	78.1	1210	977	78.5	1231
2SRLCR-120AR	1048	93.8	1352	1070	94.3	1376	1092	94.9	1400	1115	95.4	1424	1137	95.9	1448
4SRLCR-80AR	651	54.7	828	665	55.0	843	680	55.4	859	695	55.7	875	710	56.0	891
4SRLCR-100AR	866	73.4	1103	885	73.8	1124	904	74.2	1144	923	74.6	1165	943	75.0	1186
4SRLCR-120AR	1003	84.5	1277	1025	84.9	1300	1047	85.4	1324	1070	85.8	1348	1092	86.3	1372
4SRLCR-140AR	1298	111.1	1659	1327	111.8	1689	1356	112.5	1720	1385	113.1	1752	1415	113.7	1784
4SRLCR-160AR	1490	126.7	1901	1523	127.4	1936	1556	128.1	1972	1590	128.8	2008	1624	129.5	2044
4SRLCR-200AR	1794	153.6	2292	1833	154.5	2334	1873	155.3	2376	1913	156.2	2419	1954	157.0	2463
4SRLCR-240AR	2097	187.6	2705	2140	188.7	2752	2185	189.7	2800	2229	190.7	2848	2275	191.7	2896

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3 ϕ ,50HZ)
- QC = Condenser Total Heat Rejection
- All above data are based on standard condition (refer to page 6).
- 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 Correction Factors (Reciprocating Compressor) - R22

Models	Condensing Temperature											
	115°F			120°F			125°F			130°F		
	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
1SRLCR-5AR	1.0377	0.9608	1.0208	1.0000	1.0000	1.0000	0.9631	1.0384	0.9797	0.9271	1.0761	0.9599
1SRLCR-7.5AR	1.0365	0.9585	1.0193	1.0000	1.0000	1.0000	0.9643	1.0410	0.9812	0.9294	1.0814	0.9629
1SRLCR-10AR	1.0348	0.9638	1.0201	1.0000	1.0000	1.0000	0.9652	1.0349	0.9797	0.9306	1.0685	0.9592
1SRLCR-15AR	1.0354	0.9640	1.0204	1.0000	1.0000	1.0000	0.9647	1.0347	0.9793	0.9294	1.0680	0.9584
1SRLCR-20AR	1.0344	0.9629	1.0195	1.0000	1.0000	1.0000	0.9657	1.0359	0.9803	0.9314	1.0707	0.9605
1SRLCR-25AR	1.0333	0.9614	1.0182	1.0000	1.0000	1.0000	0.9667	1.0376	0.9816	0.9335	1.0741	0.9631
1SRLCR-30AR	1.0327	0.9608	1.0177	1.0000	1.0000	1.0000	0.9673	1.0383	0.9822	0.9347	1.0757	0.9642
1SRLCR-35AR	1.0333	0.9602	1.0178	1.0000	1.0000	1.0000	0.9667	1.0389	0.9820	0.9335	1.0769	0.9639
1SRLCR-40AR	1.0333	0.9616	1.0182	1.0000	1.0000	1.0000	0.9667	1.0375	0.9816	0.9335	1.0739	0.9631
1SRLCR-50AR	1.0329	0.9612	1.0177	1.0000	1.0000	1.0000	0.9672	1.0379	0.9822	0.9344	1.0750	0.9642
1SRLCR-60AR	1.0334	0.9631	1.0180	1.0000	1.0000	1.0000	0.9664	1.0367	0.9819	0.9327	1.0734	0.9636
2SRLCR-10AR	1.0377	0.9608	1.0208	1.0000	1.0000	1.0000	0.9631	1.0384	0.9797	0.9271	1.0761	0.9599
2SRLCR-15AR	1.0365	0.9585	1.0193	1.0000	1.0000	1.0000	0.9643	1.0410	0.9812	0.9294	1.0814	0.9629
2SRLCR-20AR	1.0348	0.9638	1.0201	1.0000	1.0000	1.0000	0.9652	1.0349	0.9797	0.9306	1.0685	0.9592
2SRLCR-30AR	1.0354	0.9640	1.0204	1.0000	1.0000	1.0000	0.9647	1.0347	0.9793	0.9294	1.0680	0.9584
2SRLCR-40AR	1.0344	0.9629	1.0195	1.0000	1.0000	1.0000	0.9657	1.0359	0.9803	0.9314	1.0707	0.9605
2SRLCR-50AR	1.0333	0.9614	1.0182	1.0000	1.0000	1.0000	0.9667	1.0376	0.9816	0.9335	1.0741	0.9631
2SRLCR-60AR	1.0327	0.9608	1.0177	1.0000	1.0000	1.0000	0.9673	1.0383	0.9822	0.9347	1.0757	0.9642
2SRLCR-70AR	1.0333	0.9602	1.0178	1.0000	1.0000	1.0000	0.9667	1.0389	0.9820	0.9335	1.0769	0.9639
2SRLCR-80AR	1.0333	0.9616	1.0182	1.0000	1.0000	1.0000	0.9667	1.0375	0.9816	0.9335	1.0739	0.9631
2SRLCR-100AR	1.0329	0.9612	1.0177	1.0000	1.0000	1.0000	0.9672	1.0379	0.9822	0.9344	1.0750	0.9642
2SRLCR-120AR	1.0334	0.9631	1.0180	1.0000	1.0000	1.0000	0.9664	1.0367	0.9819	0.9327	1.0734	0.9636
4SRLCR-80AR	1.0344	0.9629	1.0195	1.0000	1.0000	1.0000	0.9657	1.0359	0.9803	0.9314	1.0707	0.9605
4SRLCR-100AR	1.0333	0.9614	1.0182	1.0000	1.0000	1.0000	0.9667	1.0376	0.9816	0.9335	1.0741	0.9631
4SRLCR-120AR	1.0327	0.9608	1.0177	1.0000	1.0000	1.0000	0.9673	1.0383	0.9822	0.9347	1.0757	0.9642
4SRLCR-140AR	1.0333	0.9602	1.0178	1.0000	1.0000	1.0000	0.9667	1.0389	0.9820	0.9335	1.0769	0.9639
4SRLCR-160AR	1.0333	0.9616	1.0182	1.0000	1.0000	1.0000	0.9667	1.0375	0.9816	0.9335	1.0739	0.9631
4SRLCR-200AR	1.0329	0.9612	1.0177	1.0000	1.0000	1.0000	0.9672	1.0379	0.9822	0.9344	1.0750	0.9642
4SRLCR-240AR	1.0334	0.9631	1.0180	1.0000	1.0000	1.0000	0.9664	1.0367	0.9819	0.9327	1.0734	0.9636

NOTE

- 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 Leaving Water Temperature														
	42°F			43°F			44°F			45°F			46°F		
	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
1SRLCR-5AR	47	4.3	61	48	4.4	62	49	4.4	64	51	4.4	65	52	4.5	66
1SRLCR-7.5AR	71	6.5	92	72	6.5	94	74	6.6	96	76	6.6	98	78	6.7	100
1SRLCR-10AR	91	7.9	117	93	7.9	119	96	8.0	121	98	8.0	124	100	8.1	126
1SRLCR-15AR	126	11.0	161	129	11.0	165	132	11.1	168	135	11.2	172	139	11.3	175
1SRLCR-20AR	149	12.9	190	152	13.0	194	156	13.1	198	160	13.1	202	164	13.2	206
1SRLCR-25AR	198	17.5	254	203	17.6	260	207	17.7	265	212	17.9	270	217	18.0	276
1SRLCR-30AR	233	20.5	300	239	20.6	306	244	20.8	312	250	20.9	318	256	21.1	324
1SRLCR-35AR	287	26.2	372	294	26.4	380	301	26.6	387	308	26.8	395	316	27.0	403
1SRLCR-40AR	339	30.8	438	347	31.0	447	355	31.2	456	363	31.5	465	371	31.7	474
1SRLCR-50AR	397	36.3	515	407	36.6	525	416	36.9	536	426	37.1	547	436	37.4	558
1SRLCR-60AR	493	46.1	642	504	46.4	655	516	46.7	667	528	47.0	680	540	47.3	693
2SRLCR-10AR	94	8.6	122	96	8.7	125	99	8.8	127	101	8.9	130	104	8.9	132
2SRLCR-15AR	141	13.0	183	145	13.1	187	148	13.2	191	152	13.3	195	156	13.4	199
2SRLCR-20AR	182	15.7	233	187	15.8	238	191	15.9	243	196	16.0	248	201	16.2	253
2SRLCR-30AR	252	21.9	323	258	22.1	330	264	22.2	337	271	22.4	344	277	22.6	351
2SRLCR-40AR	297	25.7	381	305	25.9	389	312	26.1	397	320	26.3	405	327	26.5	413
2SRLCR-50AR	395	34.9	509	405	35.2	519	415	35.5	530	425	35.7	541	435	36.0	552
2SRLCR-60AR	466	40.9	599	477	41.2	611	489	41.5	623	500	41.8	636	512	42.1	648
2SRLCR-70AR	574	52.4	744	588	52.8	759	602	53.2	775	617	53.6	790	631	54.0	806
2SRLCR-80AR	677	61.6	877	693	62.0	894	710	62.5	912	726	62.9	930	743	63.3	948
2SRLCR-100AR	795	72.7	1030	814	73.2	1051	833	73.8	1072	853	74.3	1094	873	74.8	1115
2SRLCR-120AR	986	92.2	1284	1009	92.8	1310	1032	93.4	1335	1056	94.1	1361	1080	94.7	1387
4SRLCR-80AR	595	51.5	762	609	51.9	778	624	52.2	793	639	52.6	810	654	52.9	826
4SRLCR-100AR	791	69.8	1017	810	70.4	1038	830	70.9	1060	850	71.5	1081	870	72.0	1103
4SRLCR-120AR	933	81.9	1198	955	82.5	1222	977	83.1	1247	1000	83.7	1272	1024	84.3	1297
4SRLCR-140AR	1148	104.7	1488	1176	105.6	1518	1204	106.4	1549	1233	107.2	1581	1262	108.0	1612
4SRLCR-160AR	1355	123.2	1754	1387	124.1	1789	1419	125.0	1824	1452	125.8	1860	1486	126.7	1897
4SRLCR-200AR	1589	145.3	2060	1627	146.4	2102	1666	147.5	2144	1705	148.6	2187	1746	149.6	2231
4SRLCR-240AR	1971	184.3	2569	2017	185.6	2619	2064	186.9	2670	2112	188.1	2722	2160	189.4	2774

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3φ,50HZ)
- QC = Condenser Total Heat Rejection
- All above data are based on standard condition (refer to page 6).
- 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 Correction Factors (Reciprocating Compressor) - R407C

Models	Condensing Temperature											
	115°F			120°F			125°F			130°F		
	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
1SRLCR-5AR	1.0468	0.9700	1.0296	1.0000	1.0000	1.0000	0.9532	1.0278	0.9699	0.9063	1.0533	0.9392
1SRLCR-7.5AR	1.0459	0.9683	1.0285	1.0000	1.0000	1.0000	0.9541	1.0296	0.9710	0.9081	1.0571	0.9414
1SRLCR-10AR	1.0458	0.9682	1.0293	1.0000	1.0000	1.0000	0.9539	1.0292	0.9699	0.9074	1.0558	0.9390
1SRLCR-15AR	1.0466	0.9686	1.0299	1.0000	1.0000	1.0000	0.9530	1.0286	0.9692	0.9057	1.0545	0.9376
1SRLCR-20AR	1.0452	0.9672	1.0285	1.0000	1.0000	1.0000	0.9545	1.0303	0.9707	0.9086	1.0582	0.9405
1SRLCR-25AR	1.0429	0.9670	1.0265	1.0000	1.0000	1.0000	0.9569	1.0311	0.9730	0.9135	1.0602	0.9454
1SRLCR-30AR	1.0408	0.9649	1.0244	1.0000	1.0000	1.0000	0.9590	1.0335	0.9751	0.9178	1.0655	0.9497
1SRLCR-35AR	1.0428	0.9637	1.0252	1.0000	1.0000	1.0000	0.9567	1.0342	0.9739	0.9129	1.0662	0.9470
1SRLCR-40AR	1.0408	0.9626	1.0235	1.0000	1.0000	1.0000	0.9587	1.0356	0.9758	0.9170	1.0694	0.9509
1SRLCR-50AR	1.0422	0.9643	1.0249	1.0000	1.0000	1.0000	0.9573	1.0337	0.9743	0.9142	1.0653	0.9479
1SRLCR-60AR	1.0411	0.9646	1.0238	1.0000	1.0000	1.0000	0.9589	1.0342	0.9760	0.9178	1.0673	0.9517
2SRLCR-10AR	1.0468	0.9700	1.0296	1.0000	1.0000	1.0000	0.9532	1.0278	0.9699	0.9063	1.0533	0.9392
2SRLCR-15AR	1.0459	0.9683	1.0285	1.0000	1.0000	1.0000	0.9541	1.0296	0.9710	0.9081	1.0571	0.9414
2SRLCR-20AR	1.0458	0.9682	1.0293	1.0000	1.0000	1.0000	0.9539	1.0292	0.9699	0.9074	1.0558	0.9390
2SRLCR-30AR	1.0466	0.9686	1.0299	1.0000	1.0000	1.0000	0.9530	1.0286	0.9692	0.9057	1.0545	0.9376
2SRLCR-40AR	1.0452	0.9672	1.0285	1.0000	1.0000	1.0000	0.9545	1.0303	0.9707	0.9086	1.0582	0.9405
2SRLCR-50AR	1.0429	0.9670	1.0265	1.0000	1.0000	1.0000	0.9569	1.0311	0.9730	0.9135	1.0602	0.9454
2SRLCR-60AR	1.0408	0.9649	1.0244	1.0000	1.0000	1.0000	0.9590	1.0335	0.9751	0.9178	1.0655	0.9497
2SRLCR-70AR	1.0428	0.9637	1.0252	1.0000	1.0000	1.0000	0.9567	1.0342	0.9739	0.9129	1.0662	0.9470
2SRLCR-80AR	1.0408	0.9626	1.0235	1.0000	1.0000	1.0000	0.9587	1.0356	0.9758	0.9170	1.0694	0.9509
2SRLCR-100AR	1.0422	0.9643	1.0249	1.0000	1.0000	1.0000	0.9573	1.0337	0.9743	0.9142	1.0653	0.9479
2SRLCR-120AR	1.0411	0.9646	1.0238	1.0000	1.0000	1.0000	0.9589	1.0342	0.9760	0.9178	1.0673	0.9517
4SRLCR-80AR	1.0452	0.9672	1.0285	1.0000	1.0000	1.0000	0.9545	1.0303	0.9707	0.9086	1.0582	0.9405
4SRLCR-100AR	1.0429	0.9670	1.0265	1.0000	1.0000	1.0000	0.9569	1.0311	0.9730	0.9135	1.0602	0.9454
4SRLCR-120AR	1.0408	0.9649	1.0244	1.0000	1.0000	1.0000	0.9590	1.0335	0.9751	0.9178	1.0655	0.9497
4SRLCR-140AR	1.0428	0.9637	1.0252	1.0000	1.0000	1.0000	0.9567	1.0342	0.9739	0.9129	1.0662	0.9470
4SRLCR-160AR	1.0408	0.9626	1.0235	1.0000	1.0000	1.0000	0.9587	1.0356	0.9758	0.9170	1.0694	0.9509
4SRLCR-200AR	1.0422	0.9643	1.0249	1.0000	1.0000	1.0000	0.9573	1.0337	0.9743	0.9142	1.0653	0.9479
4SRLCR-240AR	1.0411	0.9646	1.0238	1.0000	1.0000	1.0000	0.9589	1.0342	0.9760	0.9178	1.0673	0.9517

NOTE

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

Models	Evaporator Leaving Water Temperature														
	42°F			43°F			44°F			45°F			46°F		
	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
1SRLCR-5AR	49	4.3	63	50	4.4	64	51	4.4	66	53	4.4	67	54	4.5	68
1SRLCR-7.5AR	64	5.4	81	65	5.5	83	67	5.5	85	68	5.6	87	70	5.6	88
1SRLCR-10AR	88	7.3	111	90	7.4	114	92	7.4	116	95	7.5	119	97	7.6	122
1SRLCR-15AR	104	8.7	132	106	8.7	135	109	8.8	138	112	8.9	141	115	9.0	144
1SRLCR-20AR	140	11.8	178	143	11.9	181	146	12.0	185	150	12.1	189	153	12.2	193
1SRLCR-25AR	157	13.6	201	160	13.8	205	164	13.9	209	168	14.0	214	172	14.1	218
1SRLCR-30AR	206	17.6	263	211	17.8	269	216	17.9	274	221	18.1	280	227	18.2	286
1SRLCR-35AR	236	20.7	303	241	20.9	309	247	21.1	315	253	21.2	322	259	21.4	328
1SRLCR-40AR	284	25.0	365	291	25.2	373	298	25.4	380	305	25.6	388	312	25.8	396
1SRLCR-50AR	323	30.3	421	330	30.6	430	338	30.9	438	346	31.2	448	355	31.5	457
1SRLCR-60AR	379	35.7	495	388	36.0	505	397	36.4	515	407	36.7	526	416	37.1	536
2SRLCR-10AR	97	8.7	126	100	8.7	128	102	8.8	131	105	8.9	134	108	9.0	137
2SRLCR-15AR	127	10.8	162	130	10.9	166	134	11.0	169	137	11.1	173	140	11.2	177
2SRLCR-20AR	176	14.6	223	180	14.7	228	185	14.8	233	189	15.0	238	194	15.1	243
2SRLCR-30AR	208	17.3	264	213	17.5	269	218	17.6	275	224	17.8	281	229	17.9	287
2SRLCR-40AR	279	23.6	356	286	23.8	363	293	24.0	370	300	24.1	378	307	24.3	386
2SRLCR-50AR	313	27.3	402	321	27.5	410	329	27.8	419	337	28.0	427	345	28.3	436
2SRLCR-60AR	412	35.3	526	422	35.6	537	432	35.9	548	443	36.2	560	453	36.5	571
2SRLCR-70AR	471	41.4	605	483	41.8	618	494	42.1	631	506	42.5	644	518	42.9	657
2SRLCR-80AR	568	50.0	730	582	50.4	745	596	50.8	761	610	51.2	776	624	51.7	792
2SRLCR-100AR	645	60.6	842	661	61.2	859	677	61.8	877	693	62.4	895	709	62.9	913
2SRLCR-120AR	758	71.4	989	776	72.1	1010	794	72.8	1030	813	73.4	1051	832	74.1	1073
4SRLCR-80AR	558	47.1	711	572	47.5	726	586	47.9	741	599	48.3	756	614	48.7	771
4SRLCR-100AR	626	54.5	803	642	55.0	820	657	55.5	837	673	56.0	855	689	56.5	873
4SRLCR-120AR	824	70.5	1052	844	71.2	1075	864	71.8	1097	885	72.4	1120	906	73.0	1143
4SRLCR-140AR	942	82.8	1211	965	83.5	1236	988	84.3	1261	1012	85.0	1287	1035	85.7	1313
4SRLCR-160AR	1137	99.9	1461	1164	100.8	1491	1192	101.6	1521	1220	102.5	1552	1248	103.3	1583
4SRLCR-200AR	1290	121.2	1683	1321	122.4	1718	1353	123.6	1754	1386	124.7	1790	1419	125.9	1827
4SRLCR-240AR	1515	142.8	1978	1552	144.2	2019	1589	145.5	2061	1626	146.9	2103	1665	148.2	2145

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3φ,50HZ)
- QC = Condenser Total Heat Rejection
- All above data are based on standard condition (refer to page 6).
- 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 Correction Factors (Reciprocating Compressor) - R134a

Models	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
	1SRLCR-5AR	1.0000	1.0000	1.0000	0.9567	1.0309	0.9729	0.9135	1.0596	0.9453	0.8703	1.0861	0.9173	0.8271	1.1102
1SRLCR-7.5AR	1.0000	1.0000	1.0000	0.9532	1.0303	0.9695	0.9066	1.0579	0.9385	0.8603	1.0829	0.9073	0.8144	1.1051	0.8757
1SRLCR-10AR	1.0000	1.0000	1.0000	0.9522	1.0276	0.9678	0.9046	1.0527	0.9352	0.8573	1.0755	0.9024	0.8104	1.0957	0.8694
1SRLCR-15AR	1.0000	1.0000	1.0000	0.9539	1.0289	0.9695	0.9080	1.0558	0.9387	0.8624	1.0808	0.9078	0.8172	1.1039	0.8768
1SRLCR-20AR	1.0000	1.0000	1.0000	0.9592	1.0324	0.9745	0.9183	1.0631	0.9486	0.8772	1.0920	0.9223	0.8361	1.1191	0.8954
1SRLCR-25AR	1.0000	1.0000	1.0000	0.9556	1.0297	0.9716	0.9111	1.0575	0.9426	0.8665	1.0832	0.9131	0.8220	1.1069	0.8832
1SRLCR-30AR	1.0000	1.0000	1.0000	0.9586	1.0316	0.9741	0.9171	1.0611	0.9476	0.8755	1.0885	0.9206	0.8338	1.1138	0.8932
1SRLCR-35AR	1.0000	1.0000	1.0000	0.9586	1.0305	0.9741	0.9171	1.0588	0.9478	0.8756	1.0850	0.9209	0.8342	1.1090	0.8937
1SRLCR-40AR	1.0000	1.0000	1.0000	0.9593	1.0301	0.9746	0.9185	1.0581	0.9487	0.8777	1.0842	0.9224	0.8370	1.1082	0.8957
1SRLCR-50AR	1.0000	1.0000	1.0000	0.9588	1.0238	0.9736	0.9176	1.0462	0.9470	0.8764	1.0672	0.9200	0.8354	1.0871	0.8929
1SRLCR-60AR	1.0000	1.0000	1.0000	0.9583	1.0243	0.9734	0.9166	1.0469	0.9464	0.8750	1.0679	0.9191	0.8334	1.0876	0.8916
2SRLCR-10AR	1.0000	1.0000	1.0000	0.9567	1.0309	0.9729	0.9135	1.0596	0.9453	0.8703	1.0861	0.9173	0.8271	1.1102	0.8888
2SRLCR-15AR	1.0000	1.0000	1.0000	0.9532	1.0303	0.9695	0.9066	1.0579	0.9385	0.8603	1.0829	0.9073	0.8144	1.1051	0.8757
2SRLCR-20AR	1.0000	1.0000	1.0000	0.9522	1.0276	0.9678	0.9046	1.0527	0.9352	0.8573	1.0755	0.9024	0.8104	1.0957	0.8694
2SRLCR-30AR	1.0000	1.0000	1.0000	0.9539	1.0289	0.9695	0.9080	1.0558	0.9387	0.8624	1.0808	0.9078	0.8172	1.1039	0.8768
2SRLCR-40AR	1.0000	1.0000	1.0000	0.9592	1.0324	0.9745	0.9183	1.0631	0.9486	0.8772	1.0920	0.9223	0.8361	1.1191	0.8954
2SRLCR-50AR	1.0000	1.0000	1.0000	0.9556	1.0297	0.9716	0.9111	1.0575	0.9426	0.8665	1.0832	0.9131	0.8220	1.1069	0.8832
2SRLCR-60AR	1.0000	1.0000	1.0000	0.9586	1.0316	0.9741	0.9171	1.0611	0.9476	0.8755	1.0885	0.9206	0.8338	1.1138	0.8932
2SRLCR-70AR	1.0000	1.0000	1.0000	0.9586	1.0305	0.9741	0.9171	1.0588	0.9478	0.8756	1.0850	0.9209	0.8342	1.1090	0.8937
2SRLCR-80AR	1.0000	1.0000	1.0000	0.9593	1.0301	0.9746	0.9185	1.0581	0.9487	0.8777	1.0842	0.9224	0.8370	1.1082	0.8957
2SRLCR-100AR	1.0000	1.0000	1.0000	0.9588	1.0238	0.9736	0.9176	1.0462	0.9470	0.8764	1.0672	0.9200	0.8354	1.0871	0.8929
2SRLCR-120AR	1.0000	1.0000	1.0000	0.9583	1.0243	0.9734	0.9166	1.0469	0.9464	0.8750	1.0679	0.9191	0.8334	1.0876	0.8916
4SRLCR-80AR	1.0000	1.0000	1.0000	0.9592	1.0324	0.9745	0.9183	1.0631	0.9486	0.8772	1.0920	0.9223	0.8361	1.1191	0.8954
4SRLCR-100AR	1.0000	1.0000	1.0000	0.9556	1.0297	0.9716	0.9111	1.0575	0.9426	0.8665	1.0832	0.9131	0.8220	1.1069	0.8832
4SRLCR-120AR	1.0000	1.0000	1.0000	0.9586	1.0316	0.9741	0.9171	1.0611	0.9476	0.8755	1.0885	0.9206	0.8338	1.1138	0.8932
4SRLCR-140AR	1.0000	1.0000	1.0000	0.9586	1.0305	0.9741	0.9171	1.0588	0.9478	0.8756	1.0850	0.9209	0.8342	1.1090	0.8937
4SRLCR-160AR	1.0000	1.0000	1.0000	0.9593	1.0301	0.9746	0.9185	1.0581	0.9487	0.8777	1.0842	0.9224	0.8370	1.1082	0.8957
4SRLCR-200AR	1.0000	1.0000	1.0000	0.9588	1.0238	0.9736	0.9176	1.0462	0.9470	0.8764	1.0672	0.9200	0.8354	1.0871	0.8929
4SRLCR-240AR	1.0000	1.0000	1.0000	0.9583	1.0243	0.9734	0.9166	1.0469	0.9464	0.8750	1.0679	0.9191	0.8334	1.0876	0.8916

NOTE

- 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.



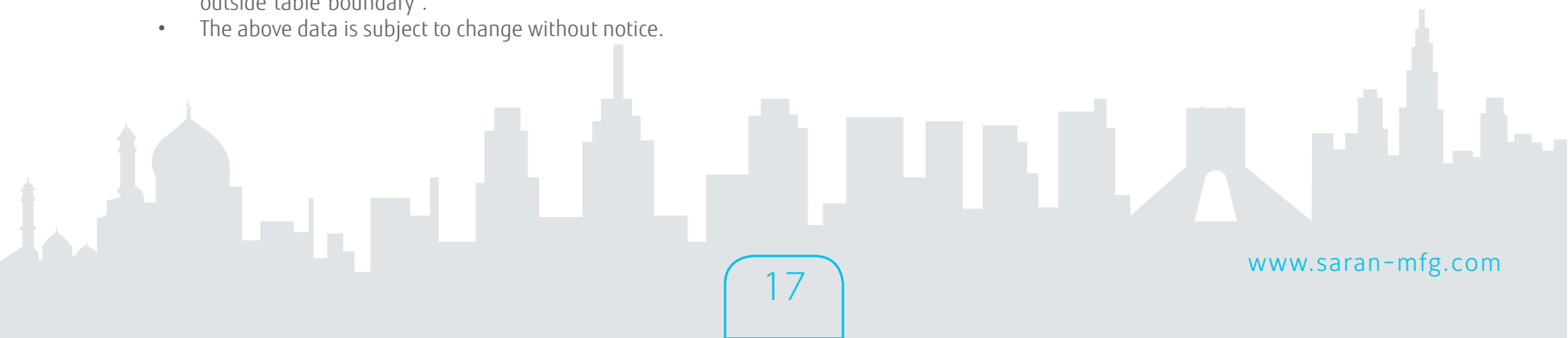
Performance Data (Cont.)

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

Models	Evaporator Leaving Water Temperature														
	42°F			43°F			44°F			45°F			46°F		
	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
1SR LCS-50AR	379	35.9	489	387	36.0	498	395	36.2	506	403	36.4	515	411	36.6	524
1SR LCS-60AR	476	44.5	613	486	44.7	623	496	45.0	634	506	45.2	645	516	45.4	656
1SR LCS-70AR	548	53.4	712	560	53.6	724	571	53.8	736	583	54.1	749	595	54.3	761
1SR LCS-80AR	633	60.0	817	646	60.2	831	659	60.4	845	673	60.7	859	686	61.0	873
1SR LCS-90AR	769	69.3	982	784	69.5	998	800	69.8	1014	816	70.0	1031	832	70.3	1047
1SR LCS-110AR	911	83.2	1166	930	83.5	1186	949	83.8	1206	968	84.1	1227	988	84.4	1247
1SR LCS-125AR	1038	94.8	1329	1060	95.1	1352	1082	95.5	1375	1104	95.8	1398	1126	96.2	1422
1SR LCS-140AR	1239	114.7	1592	1264	115.1	1618	1289	115.6	1644	1314	116.1	1671	1340	116.6	1698
1SR LCS-160AR	1389	122.6	1765	1417	123.2	1795	1446	123.8	1826	1475	124.4	1857	1505	125.0	1888
1SR LCS-180AR	1619	139.6	2047	1652	140.2	2082	1685	140.9	2118	1719	141.6	2154	1753	142.3	2190
1SR LCS-210AR	1904	160.7	2398	1944	161.3	2439	1984	162.0	2481	2025	162.7	2524	2066	163.5	2568
2SR LCS-100AR	758	71.7	979	774	72.1	996	790	72.5	1013	806	72.8	1030	823	73.1	1048
2SR LCS-120AR	952	89.0	1225	972	89.5	1246	992	89.9	1268	1012	90.3	1290	1033	90.8	1312
2SR LCS-140AR	1096	106.8	1425	1119	107.2	1448	1142	107.7	1473	1165	108.1	1497	1189	108.5	1522
2SR LCS-160AR	1266	119.9	1634	1292	120.4	1662	1318	120.9	1690	1345	121.4	1718	1372	121.9	1747
2SR LCS-180AR	1538	138.5	1964	1569	139.0	1996	1600	139.5	2028	1631	140.0	2061	1663	140.5	2095
2SR LCS-220AR	1822	166.3	2333	1860	166.9	2372	1898	167.5	2412	1937	168.2	2453	1976	168.8	2495
2SR LCS-250AR	2076	189.6	2659	2119	190.2	2704	2163	190.9	2749	2207	191.6	2796	2252	192.4	2843
2SR LCS-280AR	2479	229.3	3183	2528	230.3	3235	2578	231.2	3288	2629	232.2	3342	2680	233.1	3396
4SR LCS-200AR	1517	143.5	1957	1548	144.2	1991	1580	144.9	2025	1613	145.6	2060	1646	146.3	2095
4SR LCS-240AR	1904	178.0	2450	1943	178.9	2493	1983	179.8	2536	2024	180.7	2579	2066	181.5	2623
4SR LCS-280AR	2193	213.6	2849	2238	214.5	2897	2284	215.3	2946	2331	216.2	2995	2378	217.1	3045
4SR LCS-320AR	2532	239.8	3269	2584	240.8	3323	2637	241.8	3379	2690	242.8	3436	2745	243.8	3493
4SR LCS-360AR	3077	277.0	3927	3138	278.0	3992	3200	279.0	4057	3263	280.0	4123	3326	281.1	4189

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3φ,50HZ)
- QC = Condenser Total Heat Rejection
- All above data are based on standard condtion (refer to page 6).
- 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 Correction Factors (Screw Compressor) - R22

Models	Evaporator Leaving Water Temperature											
	115°F			120°F			125°F			130°F		
	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
1SRLCS-50AR	1.0338	0.9479	1.0149	1.0000	1.0000	1.0000	0.9658	1.0552	0.9854	0.9310	1.1136	0.9711
1SRLCS-60AR	1.0337	0.9479	1.0150	1.0000	1.0000	1.0000	0.9659	1.0552	0.9854	0.9312	1.1136	0.9710
1SRLCS-70AR	1.0409	0.9499	1.0205	1.0000	1.0000	1.0000	0.9571	1.0530	0.9786	0.9121	1.1089	0.9563
1SRLCS-80AR	1.0430	0.9521	1.0231	1.0000	1.0000	1.0000	0.9552	1.0505	0.9761	0.9086	1.1034	0.9514
1SRLCS-90AR	1.0383	0.9502	1.0197	1.0000	1.0000	1.0000	0.9599	1.0525	0.9795	0.9178	1.1076	0.9579
1SRLCS-110AR	1.0415	0.9484	1.0216	1.0000	1.0000	1.0000	0.9575	1.0570	0.9787	0.9141	1.1193	0.9579
1SRLCS-125AR	1.0415	0.9484	1.0216	1.0000	1.0000	1.0000	0.9575	1.0570	0.9787	0.9141	1.1193	0.9579
1SRLCS-140AR	1.0364	0.9550	1.0188	1.0000	1.0000	1.0000	0.9608	1.0477	0.9796	0.9187	1.0979	0.9574
1SRLCS-160AR	1.0360	0.9529	1.0187	1.0000	1.0000	1.0000	0.9617	1.0503	0.9802	0.9210	1.1037	0.9590
1SRLCS-180AR	1.0352	0.9529	1.0184	1.0000	1.0000	1.0000	0.9626	1.0502	0.9805	0.9228	1.1036	0.9598
1SRLCS-210AR	1.0332	0.9540	1.0173	1.0000	1.0000	1.0000	0.9657	1.0502	0.9827	0.9304	1.1047	0.9653
2SRLCS-100AR	1.0338	0.9479	1.0149	1.0000	1.0000	1.0000	0.9658	1.0552	0.9854	0.9310	1.1136	0.9711
2SRLCS-120AR	1.0337	0.9479	1.0150	1.0000	1.0000	1.0000	0.9659	1.0552	0.9854	0.9312	1.1136	0.9710
2SRLCS-140AR	1.0409	0.9499	1.0205	1.0000	1.0000	1.0000	0.9571	1.0530	0.9786	0.9121	1.1089	0.9563
2SRLCS-160AR	1.0430	0.9521	1.0231	1.0000	1.0000	1.0000	0.9552	1.0505	0.9761	0.9086	1.1034	0.9514
2SRLCS-180AR	1.0383	0.9502	1.0197	1.0000	1.0000	1.0000	0.9599	1.0525	0.9795	0.9178	1.1076	0.9579
2SRLCS-220AR	1.0415	0.9484	1.0216	1.0000	1.0000	1.0000	0.9575	1.0570	0.9787	0.9141	1.1193	0.9579
2SRLCS-250AR	1.0415	0.9484	1.0216	1.0000	1.0000	1.0000	0.9575	1.0570	0.9787	0.9141	1.1193	0.9579
2SRLCS-280AR	1.0364	0.9550	1.0188	1.0000	1.0000	1.0000	0.9608	1.0477	0.9796	0.9187	1.0979	0.9574
4SRLCS-200AR	1.0338	0.9479	1.0149	1.0000	1.0000	1.0000	0.9658	1.0552	0.9854	0.9310	1.1136	0.9711
4SRLCS-240AR	1.0337	0.9479	1.0150	1.0000	1.0000	1.0000	0.9659	1.0552	0.9854	0.9312	1.1136	0.9710
4SRLCS-280AR	1.0409	0.9499	1.0205	1.0000	1.0000	1.0000	0.9571	1.0530	0.9786	0.9121	1.1089	0.9563
4SRLCS-320AR	1.0430	0.9521	1.0231	1.0000	1.0000	1.0000	0.9552	1.0505	0.9761	0.9086	1.1034	0.9514
4SRLCS-360AR	1.0383	0.9502	1.0197	1.0000	1.0000	1.0000	0.9599	1.0525	0.9795	0.9178	1.1076	0.9579

NOTE

- 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 Leaving Water Temperature														
	42°F			43°F			44°F			45°F			46°F		
	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
1SR LCS-50AR	369	35.2	481	377	35.4	489	386	35.5	498	394	35.7	508	403	35.9	517
1SR LCS-60AR	463	43.7	602	474	43.9	613	484	44.1	624	495	44.3	636	506	44.5	647
1SR LCS-70AR	537	50.7	698	549	50.9	711	562	51.1	724	575	51.2	737	588	51.4	751
1SR LCS-80AR	609	57.0	789	623	57.3	804	637	57.6	819	651	57.9	835	666	58.2	851
1SR LCS-90AR	708	65.8	916	723	66.0	933	739	66.3	949	755	66.5	966	772	66.8	984
1SR LCS-110AR	892	82.6	1154	912	82.9	1175	931	83.3	1196	951	83.6	1217	972	83.9	1238
1SR LCS-125AR	1017	94.1	1316	1039	94.5	1339	1062	94.9	1363	1085	95.3	1387	1108	95.7	1412
1SR LCS-140AR	1175	107.5	1516	1200	107.9	1543	1226	108.4	1570	1253	108.8	1598	1280	109.3	1627
1SR LCS-160AR	1310	121.1	1695	1339	121.6	1725	1369	122.0	1756	1399	122.4	1788	1430	122.8	1820
1SR LCS-180AR	1571	135.7	2001	1606	136.1	2038	1642	136.6	2075	1678	137.1	2113	1715	137.5	2151
1SR LCS-210AR	1751	151.4	2232	1790	151.7	2271	1829	152.0	2312	1869	152.4	2353	1910	152.7	2394
2SR LCS-100AR	738	70.5	961	754	70.8	979	771	71.1	997	788	71.4	1015	806	71.7	1034
2SR LCS-120AR	926	87.5	1204	947	87.8	1226	968	88.2	1248	990	88.6	1271	1012	89.0	1295
2SR LCS-140AR	1074	101.4	1396	1099	101.8	1422	1124	102.1	1448	1150	102.4	1475	1176	102.8	1502
2SR LCS-160AR	1217	113.9	1579	1245	114.5	1608	1274	115.1	1639	1303	115.7	1670	1332	116.3	1701
2SR LCS-180AR	1415	131.6	1833	1446	132.0	1865	1478	132.5	1899	1511	133.0	1933	1544	133.5	1967
2SR LCS-220AR	1784	165.2	2309	1823	165.9	2349	1863	166.5	2391	1903	167.2	2433	1944	167.9	2476
2SR LCS-250AR	2034	188.3	2632	2079	189.0	2678	2124	189.8	2726	2169	190.6	2774	2216	191.4	2823
2SR LCS-280AR	2350	215.0	3032	2401	215.9	3086	2453	216.7	3141	2506	217.6	3196	2560	218.5	3253
4SR LCS-200AR	1475	141.0	1922	1508	141.6	1958	1542	142.2	1994	1577	142.8	2030	1612	143.4	2067
4SR LCS-240AR	1852	174.9	2407	1894	175.7	2452	1937	176.4	2497	1980	177.2	2543	2025	178.0	2589
4SR LCS-280AR	2148	202.9	2791	2197	203.5	2843	2248	204.2	2896	2299	204.9	2950	2352	205.6	3004
4SR LCS-320AR	2434	227.9	3157	2490	229.0	3217	2547	230.2	3278	2605	231.4	3339	2664	232.7	3402
4SR LCS-360AR	2830	263.1	3665	2893	264.1	3731	2957	265.1	3798	3021	266.1	3866	3087	267.1	3935

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3φ,50HZ)
- QC = Condenser Total Heat Rejection
- All above data are based on standard condtion (refer to page 6).
- 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 Correction Factors (Screw Compressor) - R407C

Models	Condensing Temperature											
	115°F			120°F			125°F			130°F		
	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
1SRLCS-50AR	1.0470	0.9473	1.0244	1.0000	1.0000	1.0000	0.9508	1.0558	0.9746	0.8993	1.1146	0.9481
1SRLCS-60AR	1.0466	0.9473	1.0243	1.0000	1.0000	1.0000	0.9512	1.0557	0.9747	0.9002	1.1146	0.9483
1SRLCS-70AR	1.0504	0.9484	1.0276	1.0000	1.0000	1.0000	0.9486	1.0552	0.9725	0.8965	1.1140	0.9452
1SRLCS-80AR	1.0530	0.9538	1.0309	1.0000	1.0000	1.0000	0.9463	1.0494	0.9693	0.8920	1.1021	0.9389
1SRLCS-90AR	1.0496	0.9474	1.0269	1.0000	1.0000	1.0000	0.9493	1.0561	0.9730	0.8976	1.1160	0.9460
1SRLCS-110AR	1.0440	0.9424	1.0215	1.0000	1.0000	1.0000	0.9548	1.0623	0.9785	0.9083	1.1294	0.9572
1SRLCS-125AR	1.0439	0.9424	1.0215	1.0000	1.0000	1.0000	0.9549	1.0623	0.9786	0.9086	1.1294	0.9574
1SRLCS-140AR	1.0437	0.9424	1.0215	1.0000	1.0000	1.0000	0.9551	1.0622	0.9786	0.9091	1.1294	0.9573
1SRLCS-160AR	1.0391	0.9415	1.0176	1.0000	1.0000	1.0000	0.9603	1.0633	0.9830	0.9200	1.1317	0.9667
1SRLCS-180AR	1.0382	0.9427	1.0183	1.0000	1.0000	1.0000	0.9611	1.0620	0.9822	0.9217	1.1291	0.9650
1SRLCS-210AR	1.0432	0.9458	1.0229	1.0000	1.0000	1.0000	0.9559	1.0579	0.9772	0.9111	1.1196	0.9546
2SRLCS-100AR	1.0470	0.9473	1.0244	1.0000	1.0000	1.0000	0.9508	1.0558	0.9746	0.8993	1.1146	0.9481
2SRLCS-120AR	1.0466	0.9473	1.0243	1.0000	1.0000	1.0000	0.9512	1.0557	0.9747	0.9002	1.1146	0.9483
2SRLCS-140AR	1.0504	0.9484	1.0276	1.0000	1.0000	1.0000	0.9486	1.0552	0.9725	0.8965	1.1140	0.9452
2SRLCS-160AR	1.0530	0.9538	1.0309	1.0000	1.0000	1.0000	0.9463	1.0494	0.9693	0.8920	1.1021	0.9389
2SRLCS-180AR	1.0496	0.9474	1.0269	1.0000	1.0000	1.0000	0.9493	1.0561	0.9730	0.8976	1.1160	0.9460
2SRLCS-220AR	1.0440	0.9424	1.0215	1.0000	1.0000	1.0000	0.9548	1.0623	0.9785	0.9083	1.1294	0.9572
2SRLCS-250AR	1.0439	0.9424	1.0215	1.0000	1.0000	1.0000	0.9549	1.0623	0.9786	0.9086	1.1294	0.9574
2SRLCS-280AR	1.0437	0.9424	1.0215	1.0000	1.0000	1.0000	0.9551	1.0622	0.9786	0.9091	1.1294	0.9573
4SRLCS-200AR	1.0470	0.9473	1.0244	1.0000	1.0000	1.0000	0.9508	1.0558	0.9746	0.8993	1.1146	0.9481
4SRLCS-240AR	1.0466	0.9473	1.0243	1.0000	1.0000	1.0000	0.9512	1.0557	0.9747	0.9002	1.1146	0.9483
4SRLCS-280AR	1.0504	0.9484	1.0276	1.0000	1.0000	1.0000	0.9486	1.0552	0.9725	0.8965	1.1140	0.9452
4SRLCS-320AR	1.0530	0.9538	1.0309	1.0000	1.0000	1.0000	0.9463	1.0494	0.9693	0.8920	1.1021	0.9389
4SRLCS-360AR	1.0496	0.9474	1.0269	1.0000	1.0000	1.0000	0.9493	1.0561	0.9730	0.8976	1.1160	0.9460

NOTE

- 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.



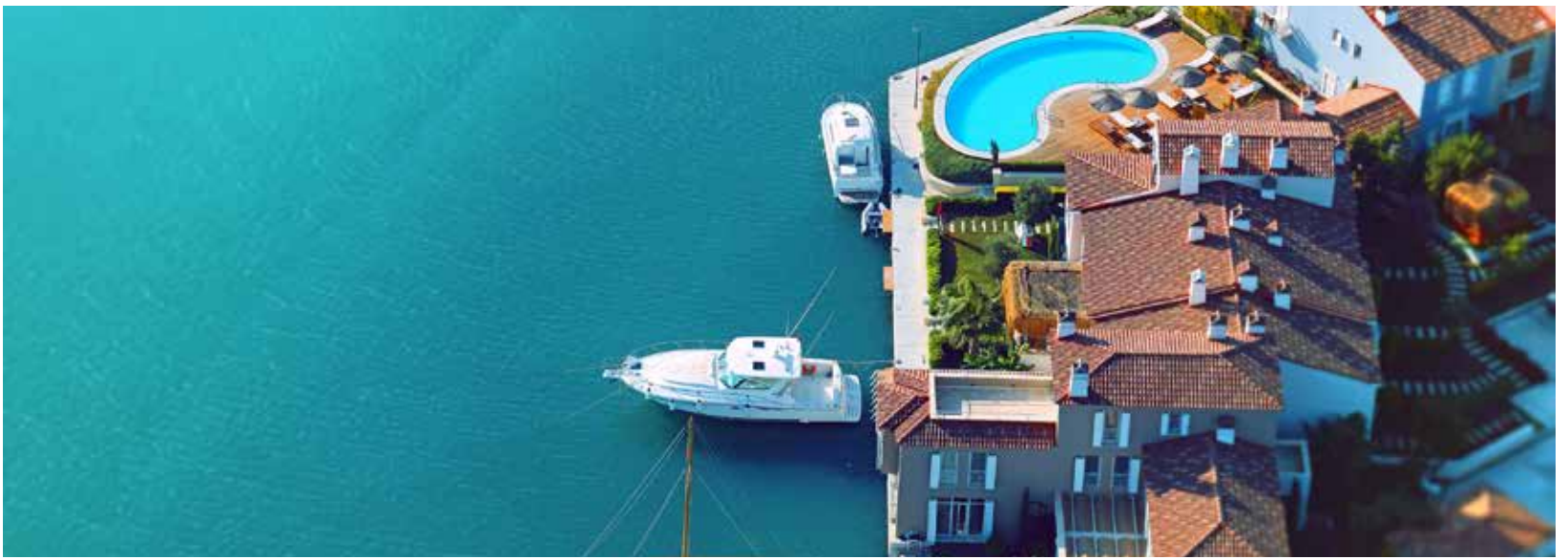
Performance Data (Cont.)

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

Models	Evaporator Leaving Water Temperature														
	42°F			43°F			44°F			45°F			46°F		
	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
1SR LCS-50AR	367	32.6	473	376	32.7	482	385	32.9	492	395	33.0	502	404	33.1	512
1SR LCS-60AR	433	37.6	555	443	37.7	566	454	37.9	577	465	38.0	588	476	38.2	600
1SR LCS-70AR	498	42.7	636	510	42.9	649	522	43.0	662	535	43.2	675	548	43.4	688
1SR LCS-80AR	611	52.0	779	625	52.2	794	640	52.4	810	655	52.6	825	670	52.8	841
1SR LCS-90AR	704	59.3	896	720	59.5	913	737	59.7	931	755	59.9	949	772	60.1	967
1SR LCS-110AR	826	67.4	1044	845	67.6	1064	865	67.8	1085	885	68.1	1106	906	68.3	1127
1SR LCS-125AR	913	75.7	1158	934	76.0	1180	956	76.3	1203	978	76.5	1226	1000	76.8	1249
1SR LCS-140AR	1039	86.2	1319	1063	86.5	1344	1088	86.8	1369	1113	87.1	1395	1139	87.4	1422
1SR LCS-160AR	1232	100.8	1558	1260	101.0	1588	1289	101.3	1618	1319	101.6	1648	1349	101.9	1679
1SR LCS-180AR	1438	113.0	1804	1472	113.4	1839	1506	113.8	1875	1541	114.2	1911	1577	114.6	1948
1SR LCS-210AR	1657	131.4	2083	1695	131.8	2122	1734	132.2	2162	1773	132.6	2203	1812	133.0	2244
2SR LCS-100AR	734	65.2	946	752	65.5	965	771	65.7	984	789	66.0	1003	808	66.2	1023
2SR LCS-120AR	866	75.1	1109	887	75.4	1131	909	75.7	1154	931	76.0	1177	953	76.3	1200
2SR LCS-140AR	995	85.4	1272	1019	85.7	1297	1044	86.1	1323	1070	86.4	1350	1095	86.7	1376
2SR LCS-160AR	1221	104.0	1559	1250	104.4	1589	1280	104.8	1619	1310	105.1	1651	1340	105.5	1682
2SR LCS-180AR	1408	118.6	1792	1441	119.0	1827	1475	119.4	1862	1509	119.8	1898	1544	120.2	1934
2SR LCS-220AR	1652	134.7	2089	1691	135.2	2129	1730	135.7	2170	1770	136.1	2212	1811	136.6	2254
2SR LCS-250AR	1826	151.5	2317	1868	152.0	2361	1912	152.5	2406	1956	153.0	2452	2000	153.6	2498
2SR LCS-280AR	2078	172.4	2637	2127	173.0	2687	2176	173.6	2739	2226	174.2	2791	2277	174.8	2844
4SR LCS-200AR	1469	130.4	1891	1505	130.9	1929	1541	131.4	1967	1579	131.9	2006	1617	132.5	2046
4SR LCS-240AR	1732	150.3	2219	1774	150.8	2263	1817	151.4	2308	1861	152.0	2354	1906	152.6	2401
4SR LCS-280AR	1990	170.8	2544	2039	171.4	2595	2089	172.1	2646	2139	172.8	2699	2190	173.5	2753
4SR LCS-320AR	2443	208.1	3117	2501	208.8	3178	2560	209.5	3239	2620	210.3	3301	2681	211.0	3365
4SR LCS-360AR	2815	237.2	3584	2882	238.0	3653	2950	238.8	3724	3019	239.6	3796	3089	240.5	3868

NOTE

- 1MBH = 1000 Btu/hr
- QE = Actual Cooling Capacity
- WC = Compressor Motor Power Input (380V,3 ϕ ,50HZ)
- QC = Condenser Total Heat Rejection
- All above data are based on standard condtion (refer to page 6).
- 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 Correction Factors (Screw Compressor) - R407C

Models	Condensing Temperature														
	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
1SRLCS-50AR	1.0000	1.0000	1.0000	0.9560	1.0568	0.9778	0.9110	1.1176	0.9558	0.8654	1.1828	0.9341	0.8191	1.2524	0.9130
1SRLCS-60AR	1.0000	1.0000	1.0000	0.9563	1.0568	0.9777	0.9118	1.1176	0.9556	0.8665	1.1828	0.9338	0.8206	1.2524	0.9125
1SRLCS-70AR	1.0000	1.0000	1.0000	0.9565	1.0568	0.9776	0.9121	1.1176	0.9555	0.8670	1.1828	0.9336	0.8214	1.2524	0.9123
1SRLCS-80AR	1.0000	1.0000	1.0000	0.9631	1.0585	0.9831	0.9254	1.1221	0.9666	0.8869	1.1911	0.9507	0.8478	1.2659	0.9355
1SRLCS-90AR	1.0000	1.0000	1.0000	0.9632	1.0585	0.9830	0.9256	1.1221	0.9664	0.8872	1.1911	0.9504	0.8482	1.2659	0.9351
1SRLCS-110AR	1.0000	1.0000	1.0000	0.9601	1.0585	0.9801	0.9195	1.1221	0.9605	0.8783	1.1911	0.9417	0.8368	1.2659	0.9238
1SRLCS-125AR	1.0000	1.0000	1.0000	0.9616	1.0585	0.9816	0.9227	1.1221	0.9637	0.8831	1.1911	0.9464	0.8430	1.2659	0.9300
1SRLCS-140AR	1.0000	1.0000	1.0000	0.9616	1.0585	0.9816	0.9227	1.1221	0.9637	0.8831	1.1911	0.9464	0.8430	1.2659	0.9300
1SRLCS-160AR	1.0000	1.0000	1.0000	0.9598	1.0571	0.9796	0.9186	1.1182	0.9592	0.8766	1.1833	0.9389	0.8338	1.2522	0.9187
1SRLCS-180AR	1.0000	1.0000	1.0000	0.9612	1.0513	0.9790	0.9213	1.1065	0.9578	0.8806	1.1662	0.9368	0.8392	1.2308	0.9163
1SRLCS-210AR	1.0000	1.0000	1.0000	0.9647	1.0558	0.9828	0.9287	1.1146	0.9655	0.8919	1.1764	0.9483	0.8544	1.2412	0.9311
2SRLCS-100AR	1.0000	1.0000	1.0000	0.9560	1.0568	0.9778	0.9110	1.1176	0.9558	0.8654	1.1828	0.9341	0.8191	1.2524	0.9130
2SRLCS-120AR	1.0000	1.0000	1.0000	0.9563	1.0568	0.9777	0.9118	1.1176	0.9556	0.8665	1.1828	0.9338	0.8206	1.2524	0.9125
2SRLCS-140AR	1.0000	1.0000	1.0000	0.9565	1.0568	0.9776	0.9121	1.1176	0.9555	0.8670	1.1828	0.9336	0.8214	1.2524	0.9123
2SRLCS-160AR	1.0000	1.0000	1.0000	0.9631	1.0585	0.9831	0.9254	1.1221	0.9666	0.8869	1.1911	0.9507	0.8478	1.2659	0.9355
2SRLCS-180AR	1.0000	1.0000	1.0000	0.9632	1.0585	0.9830	0.9256	1.1221	0.9664	0.8872	1.1911	0.9504	0.8482	1.2659	0.9351
2SRLCS-220AR	1.0000	1.0000	1.0000	0.9601	1.0585	0.9801	0.9195	1.1221	0.9605	0.8783	1.1911	0.9417	0.8368	1.2659	0.9238
2SRLCS-250AR	1.0000	1.0000	1.0000	0.9616	1.0585	0.9816	0.9227	1.1221	0.9637	0.8831	1.1911	0.9464	0.8430	1.2659	0.9300
2SRLCS-280AR	1.0000	1.0000	1.0000	0.9616	1.0585	0.9816	0.9227	1.1221	0.9637	0.8831	1.1911	0.9464	0.8430	1.2659	0.9300
4SRLCS-200AR	1.0000	1.0000	1.0000	0.9560	1.0568	0.9778	0.9110	1.1176	0.9558	0.8654	1.1828	0.9341	0.8191	1.2524	0.9130
4SRLCS-240AR	1.0000	1.0000	1.0000	0.9563	1.0568	0.9777	0.9118	1.1176	0.9556	0.8665	1.1828	0.9338	0.8206	1.2524	0.9125
4SRLCS-280AR	1.0000	1.0000	1.0000	0.9565	1.0568	0.9776	0.9121	1.1176	0.9555	0.8670	1.1828	0.9336	0.8214	1.2524	0.9123
4SRLCS-320AR	1.0000	1.0000	1.0000	0.9631	1.0585	0.9831	0.9254	1.1221	0.9666	0.8869	1.1911	0.9507	0.8478	1.2659	0.9355
4SRLCS-360AR	1.0000	1.0000	1.0000	0.9632	1.0585	0.9830	0.9256	1.1221	0.9664	0.8872	1.1911	0.9504	0.8482	1.2659	0.9351

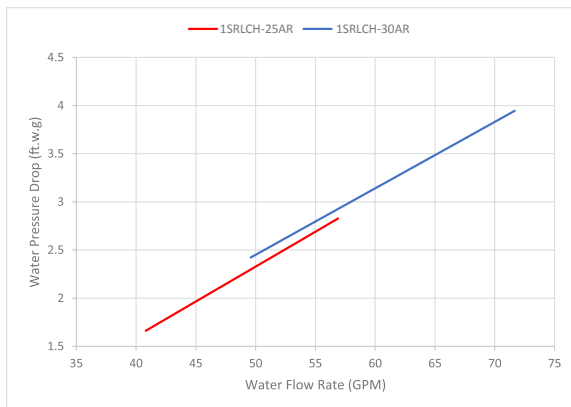
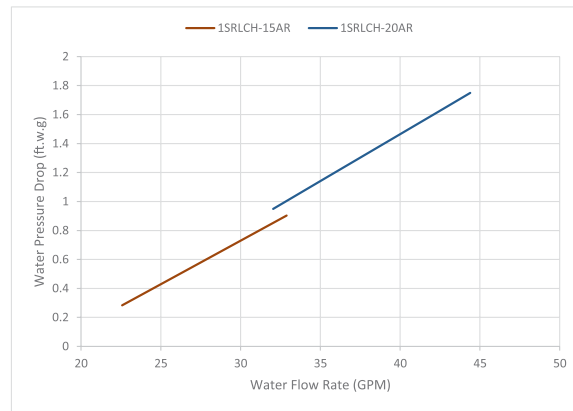
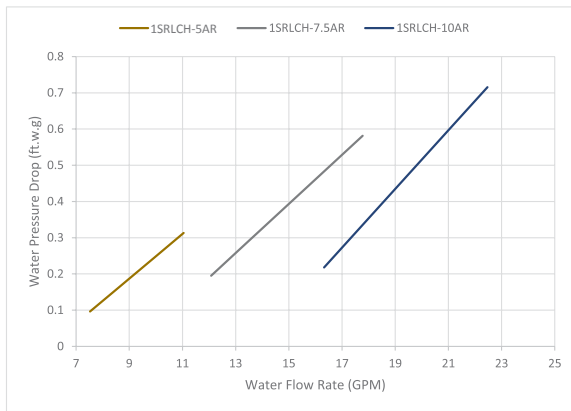
NOTE

- 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.

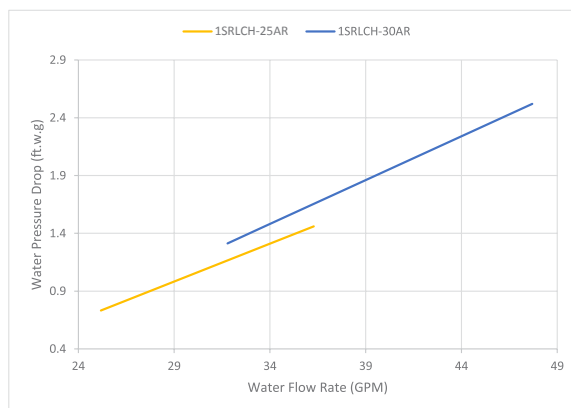
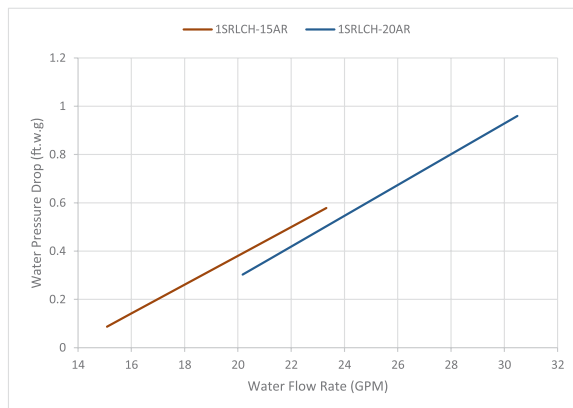
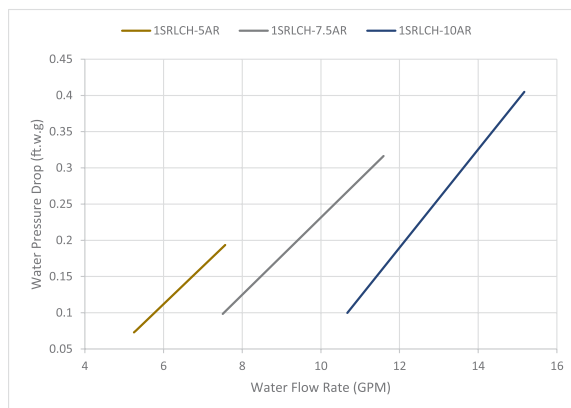
Evaporator Pressure Drop

Scroll Compressors Chillers (One Circuit)

Evaporator Pressure Drop (Scroll Compressor - R22 & R407C)

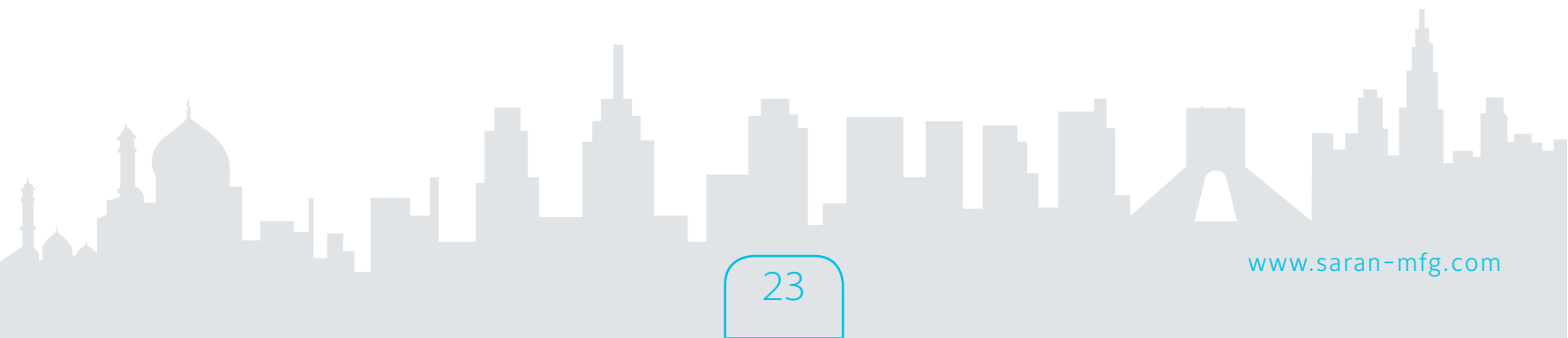


Evaporator Pressure Drop (Scroll Compressor - R134a)



NOTE

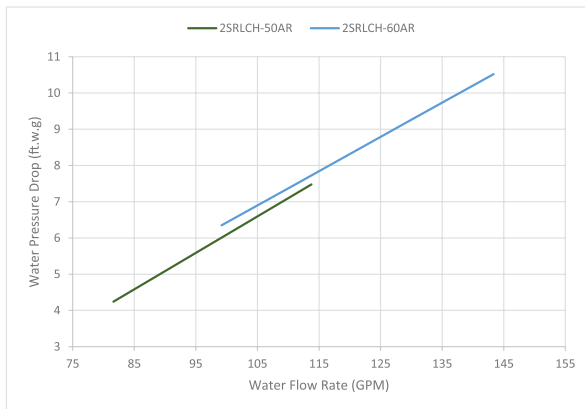
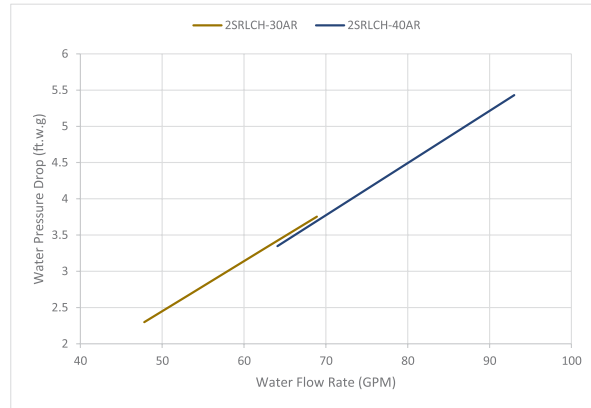
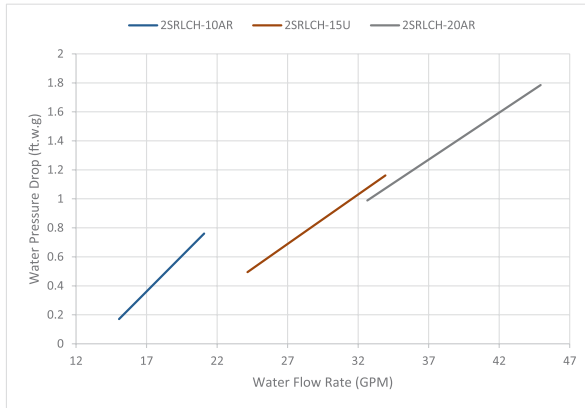
- The above data is subject to change without notice.



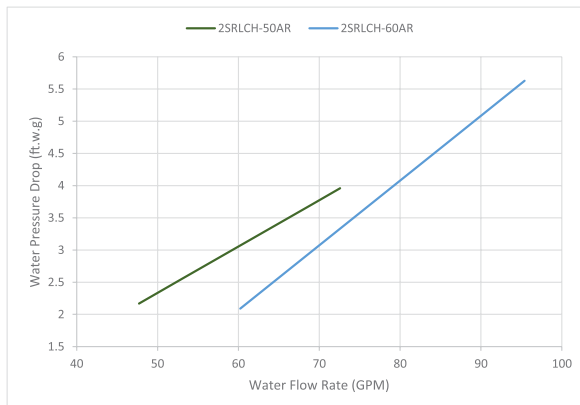
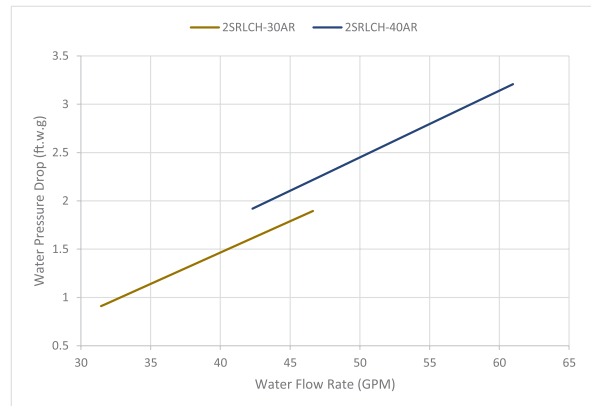
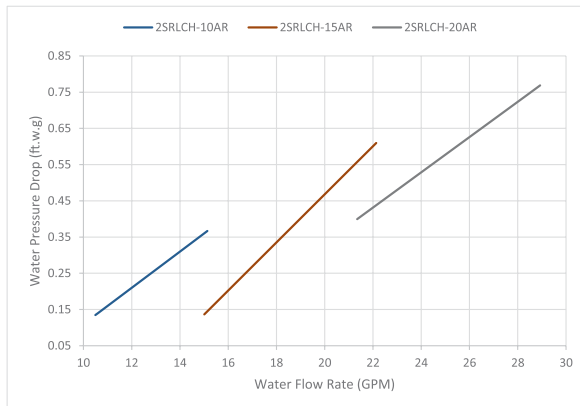
Evaporator Pressure Drop (Cont.)

Scroll Compressors Chillers (Two Circuits)

Evaporator Pressure Drop (Scroll Compressor - R22 & R407C)



Evaporator Pressure Drop (Scroll Compressor - R134a)



NOTE

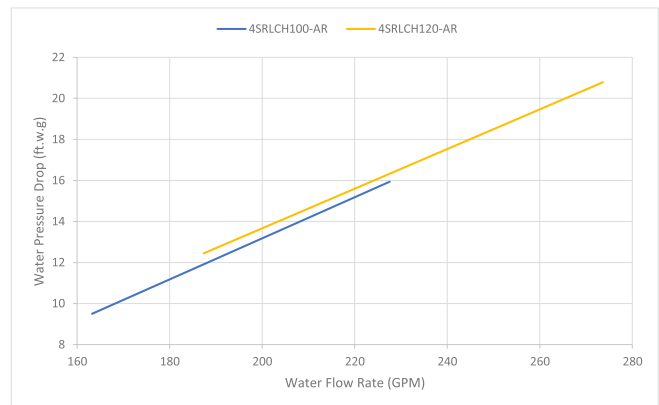
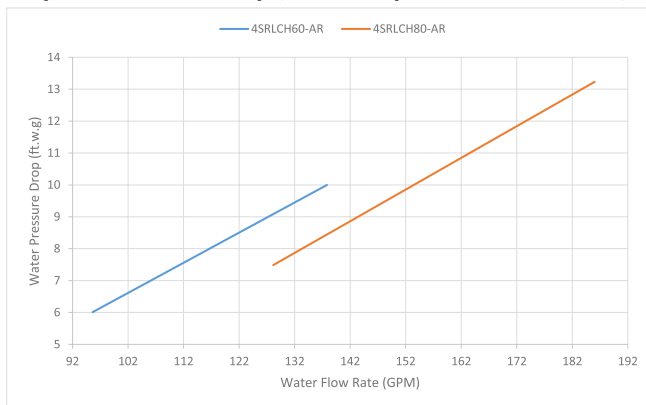
- The above data is subject to change without notice.



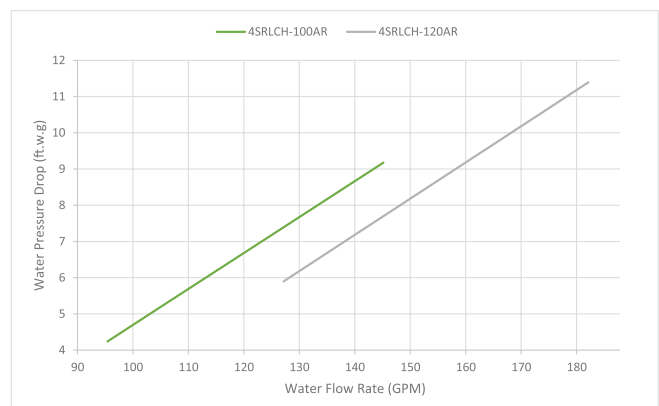
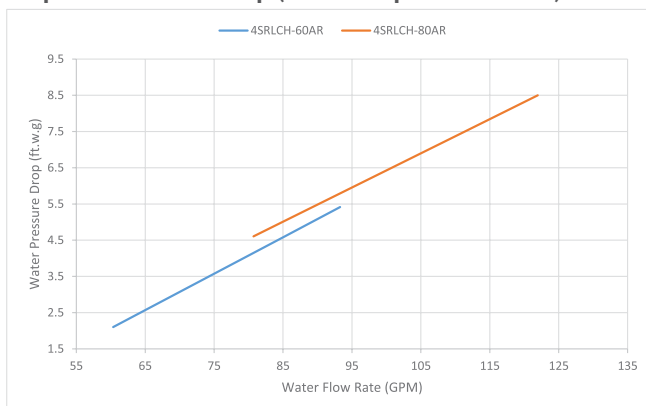
Evaporator Pressure Drop (Cont.)

Scroll Compressors Chillers (Two Circuits)

Evaporator Pressure Drop (Scroll Compressor - R22 & R407C)



Evaporator Pressure Drop (Scroll Compressor - R134a)



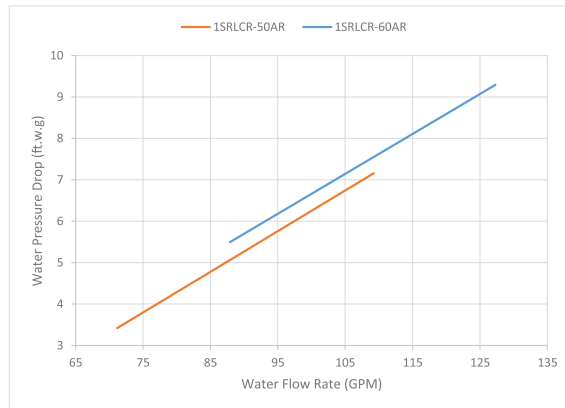
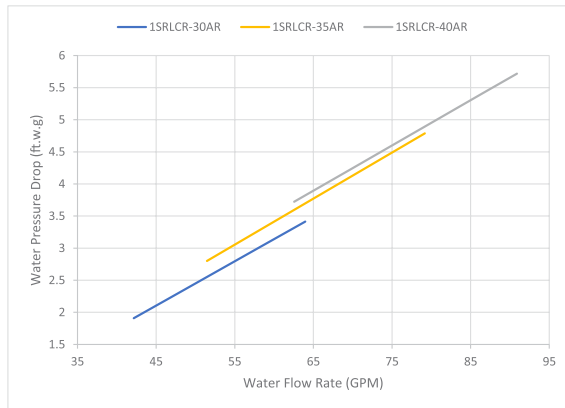
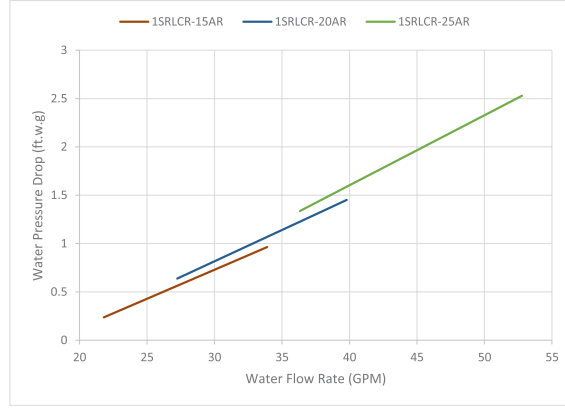
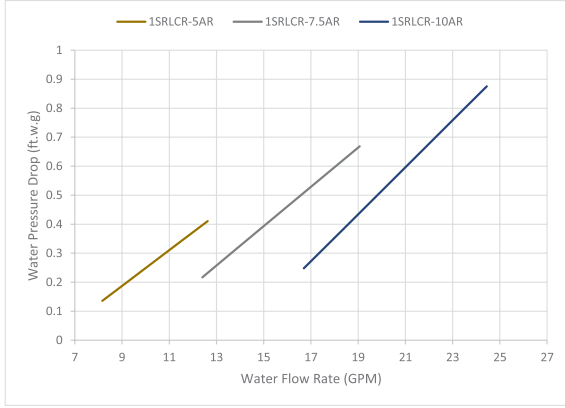
NOTE

- The above data is subject to change without notice.

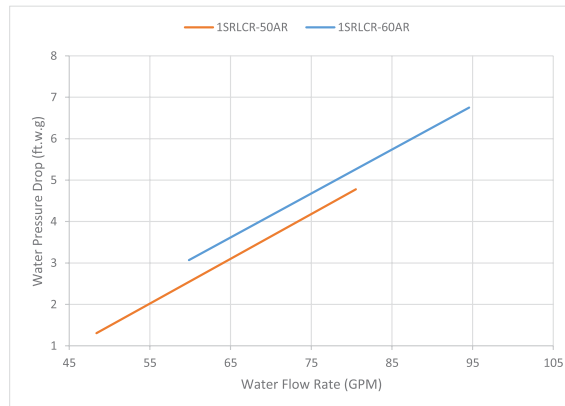
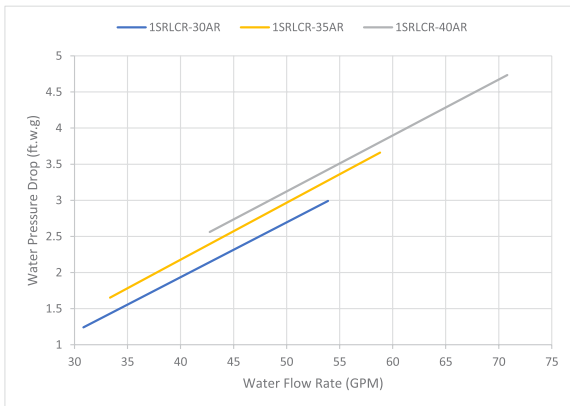
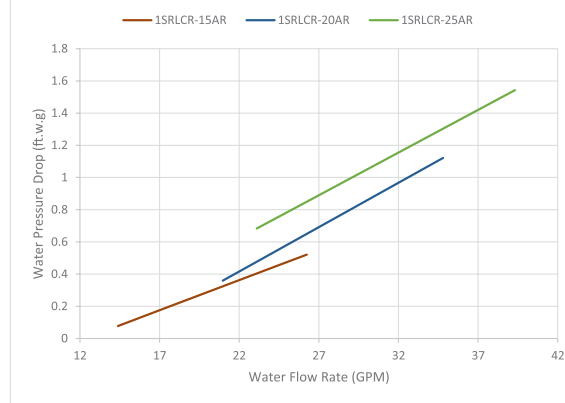
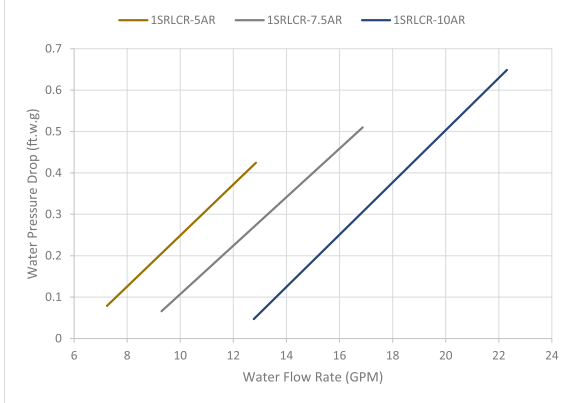
Evaporator Pressure Drop (Cont.)

Reciprocating Compressors Chillers (One Circuit)

Evaporator Pressure Drop (Reciprocating Compressor - R22 & R407C)



Evaporator Pressure Drop (Reciprocating Compressor - R134a)



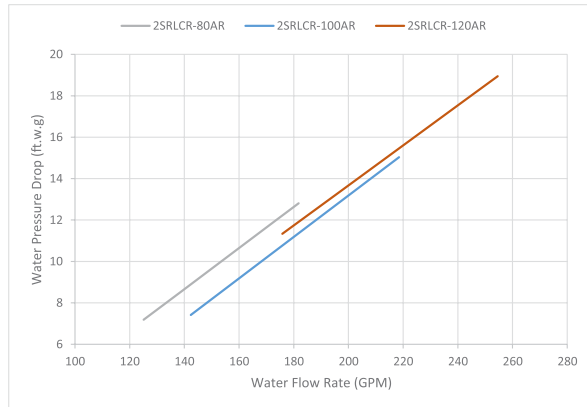
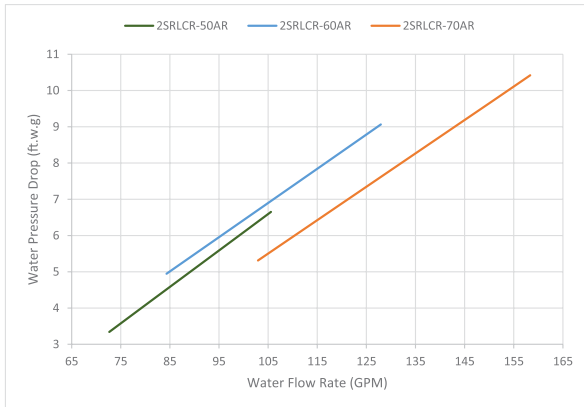
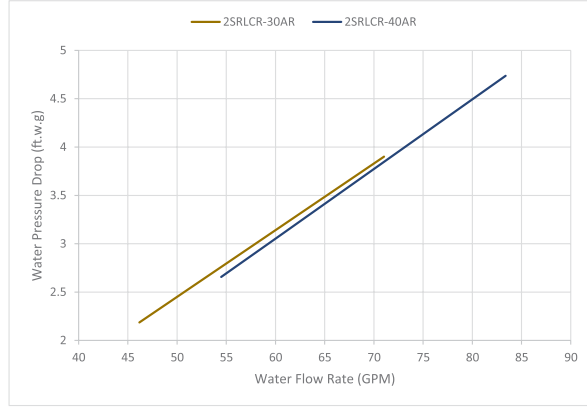
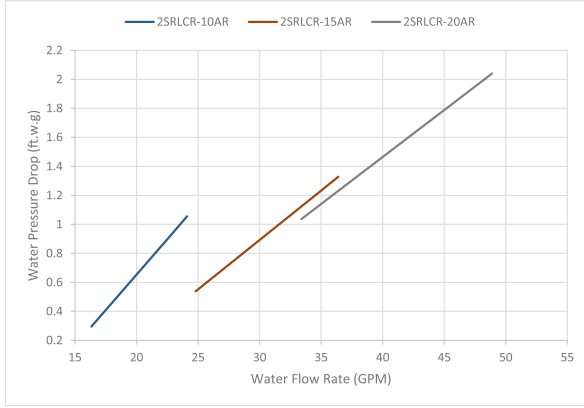
NOTE

- The above data is subject to change without notice.

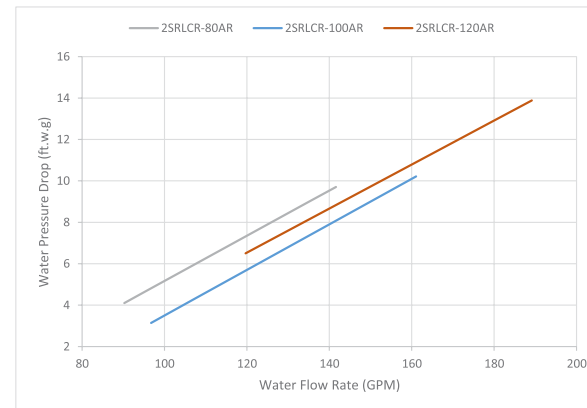
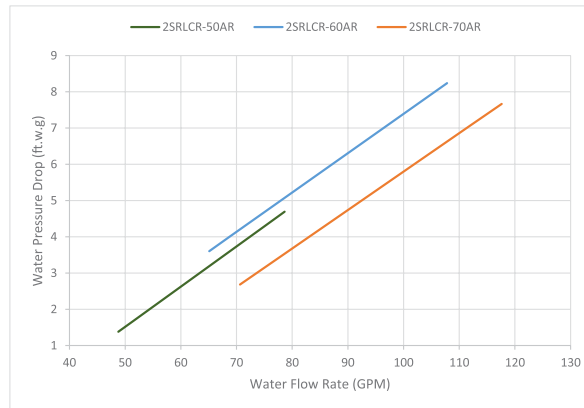
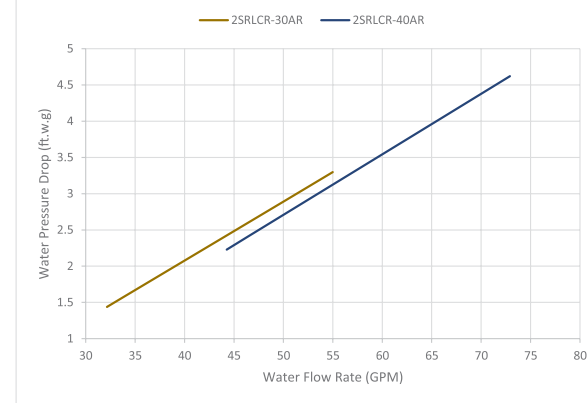
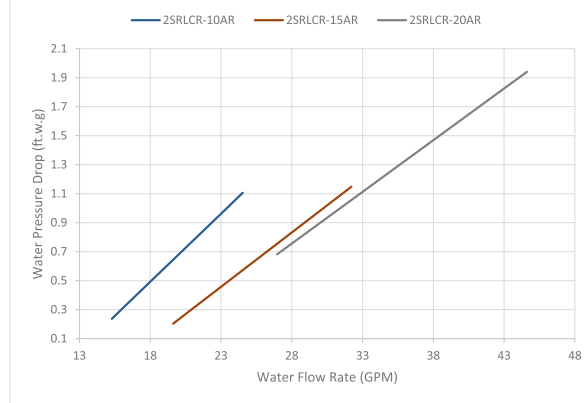
Evaporator Pressure Drop (Cont.)

Reciprocating Compressors Chillers (Two Circuits)

Evaporator Pressure Drop (Reciprocating Compressor - R22 & R407C)



Evaporator Pressure Drop (Reciprocating Compressor - R134a)



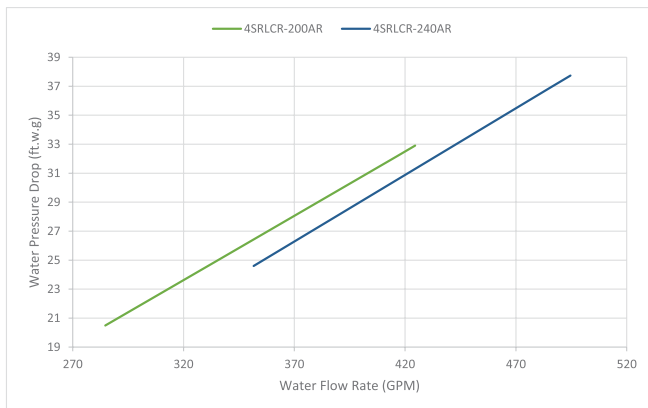
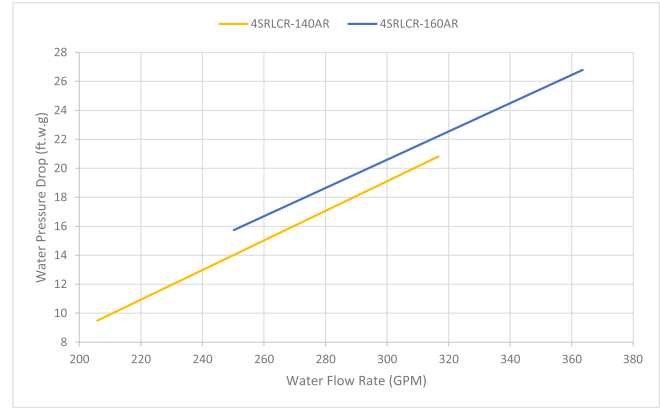
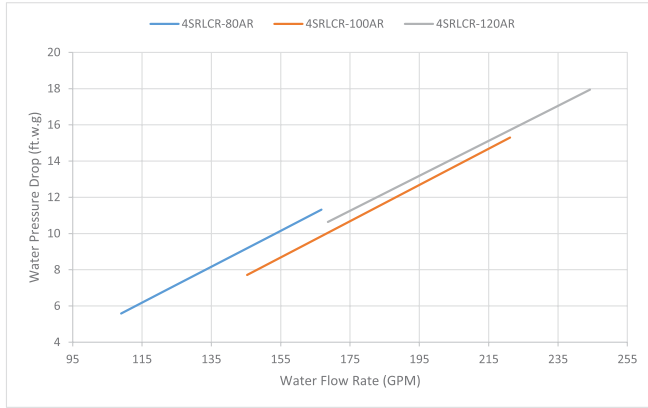
NOTE

- The above data is subject to change without notice.

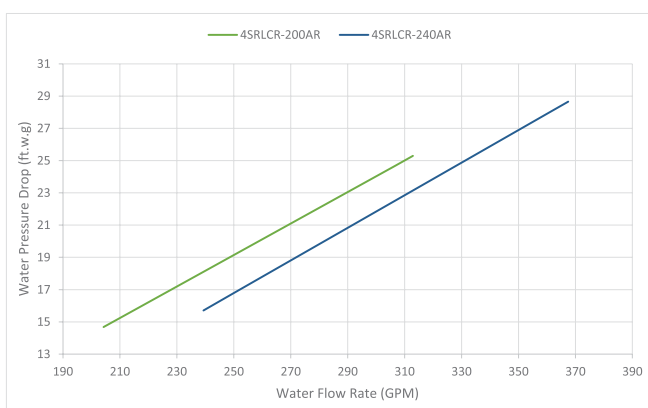
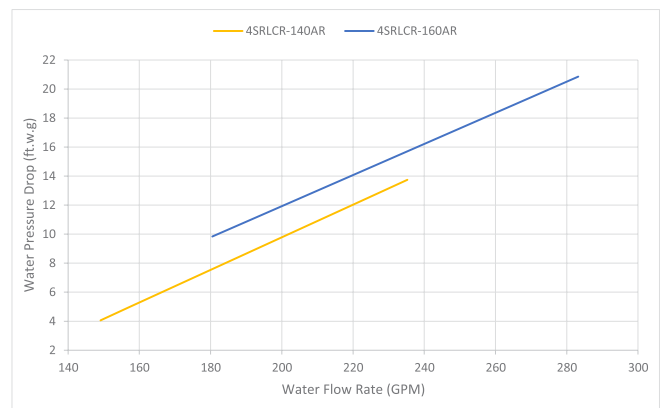
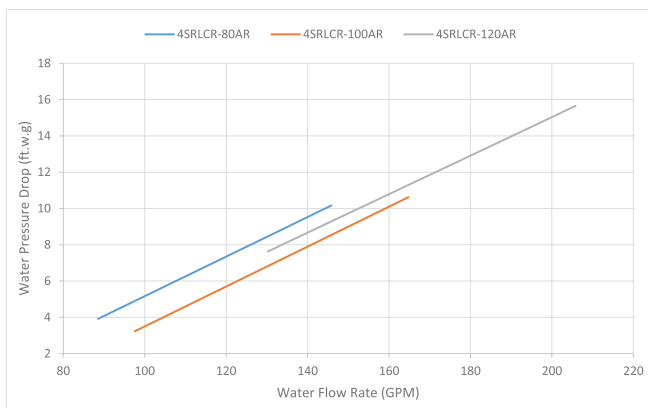
Evaporator Pressure Drop (Cont.)

Reciprocating Compressors Chillers (Four Circuits)

Evaporator Pressure Drop (Reciprocating Compressor - R22 & R407C)



Evaporator Pressure Drop (Reciprocating Compressor - R134a)



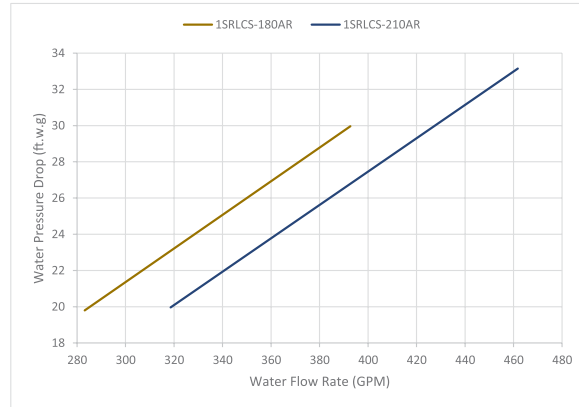
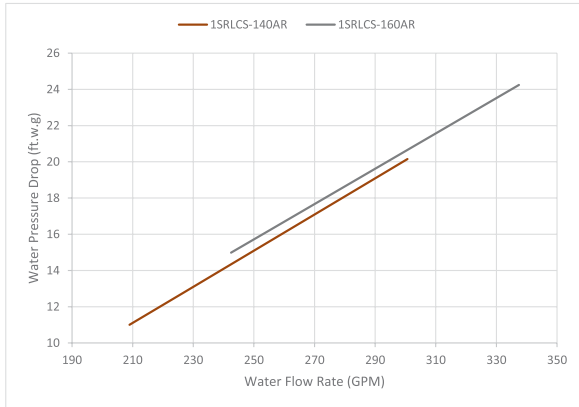
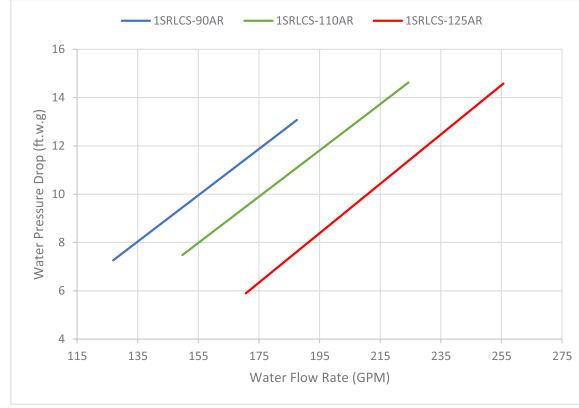
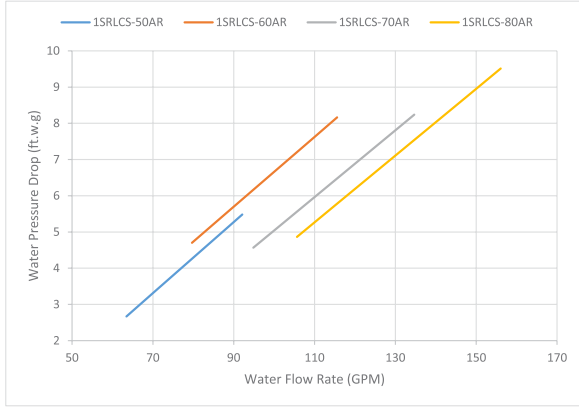
NOTE

- The above data is subject to change without notice.

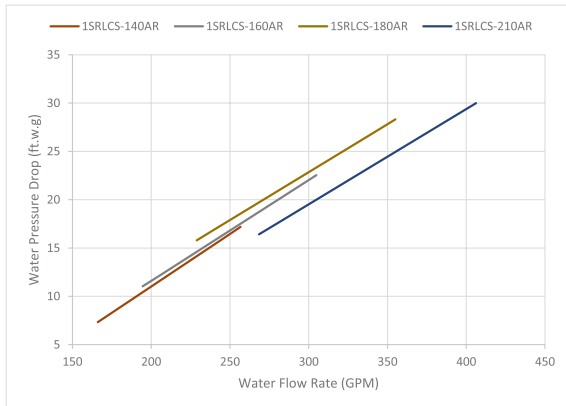
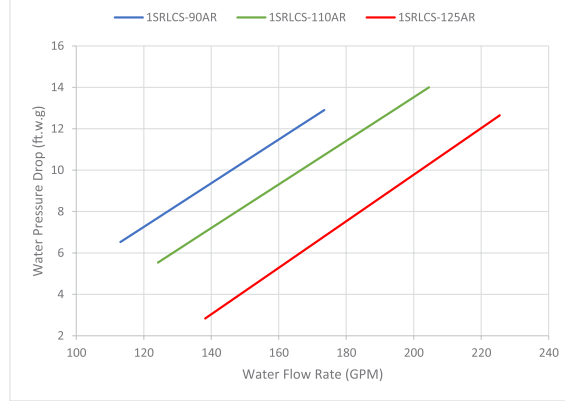
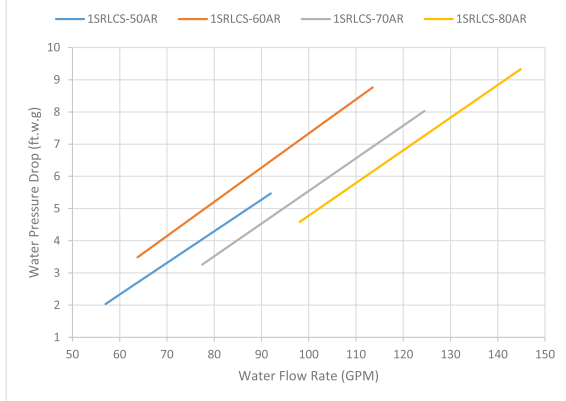
Evaporator Pressure Drop (Cont.)

Screw Compressors Chillers (One Circuit)

Evaporator Pressure Drop (Screw Compressor - R22 & R407C)



Evaporator Pressure Drop (Screw Compressor - R134a)



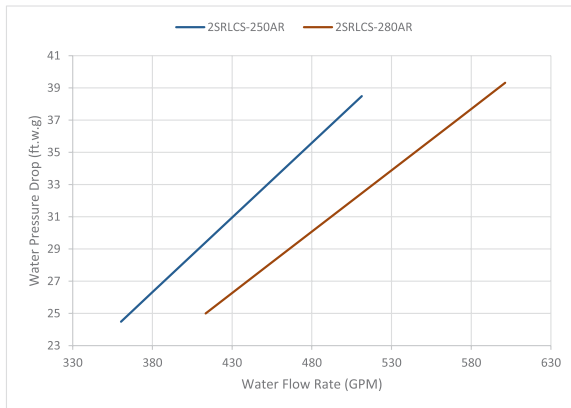
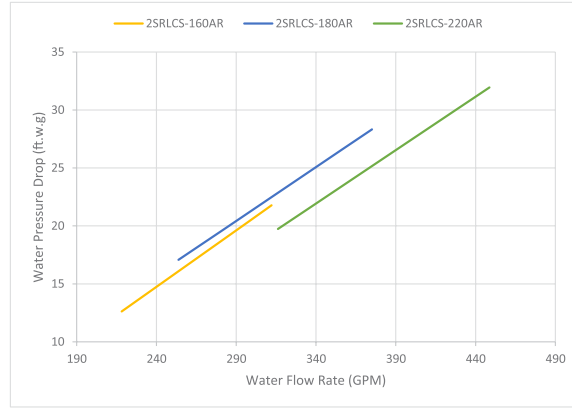
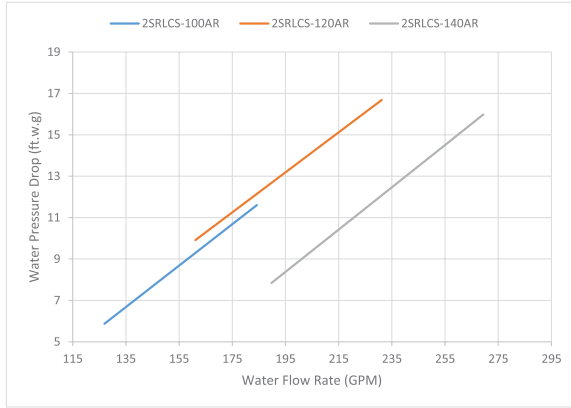
NOTE

- The above data is subject to change without notice.

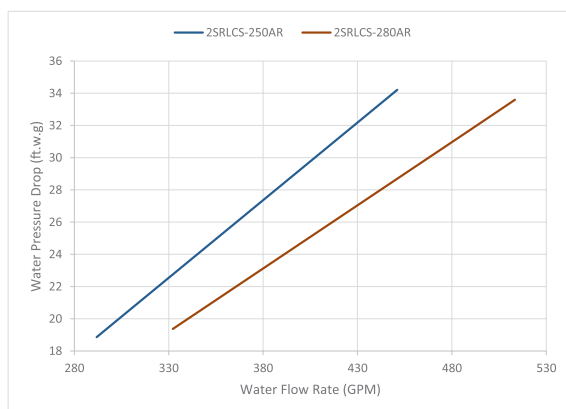
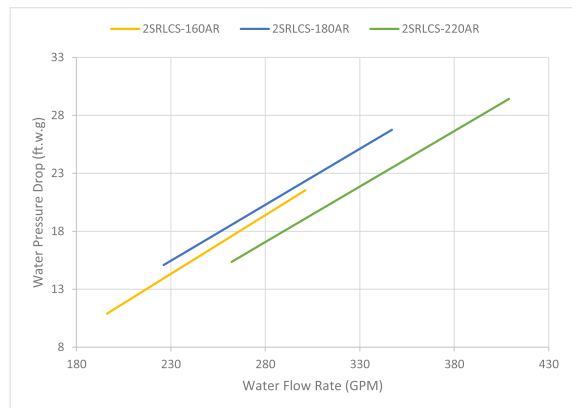
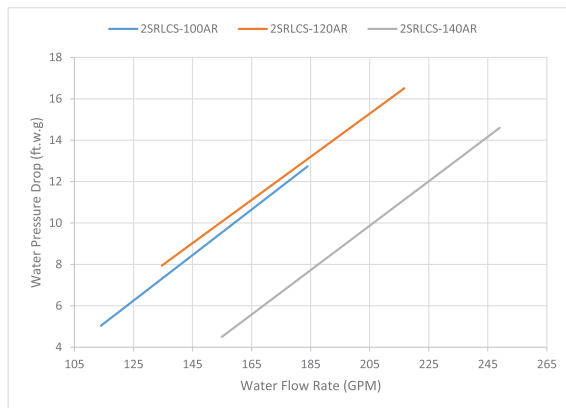
Evaporator Pressure Drop (Cont.)

Screw Compressors Chillers (One Circuit)

Evaporator Pressure Drop (Screw Compressor - R22 & R407C)



Evaporator Pressure Drop (Screw Compressor - R134a)



NOTE

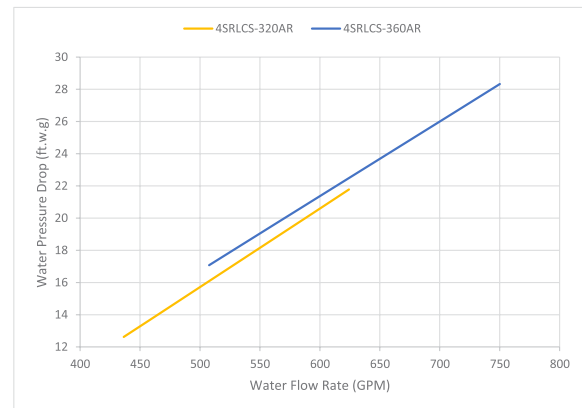
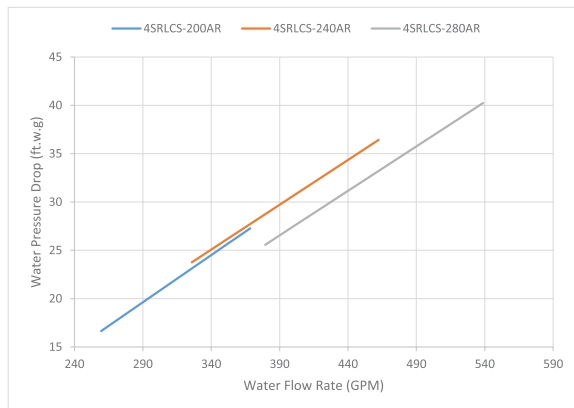
- The above data is subject to change without notice.



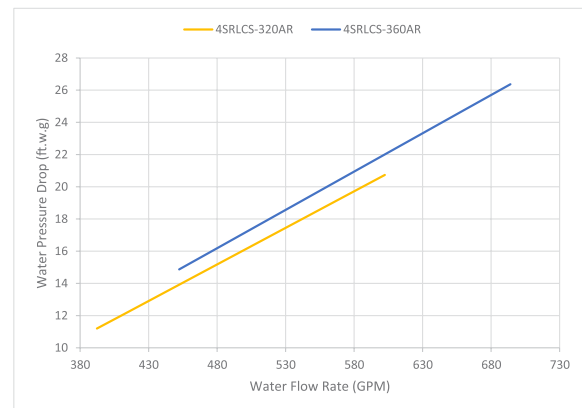
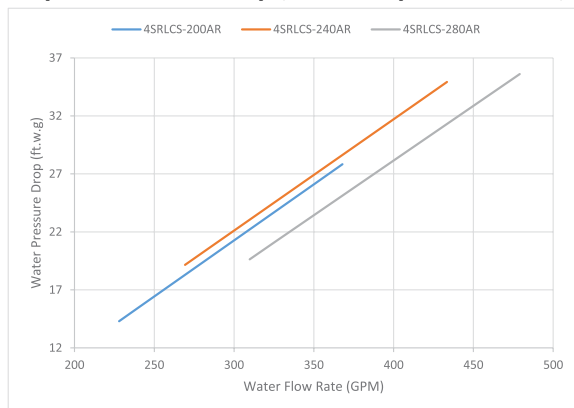
Evaporator Pressure Drop (Cont.)

Screw Compressors Chillers (Four Circuits)

Evaporator Pressure Drop (Screw Compressor - R22 & R407C)

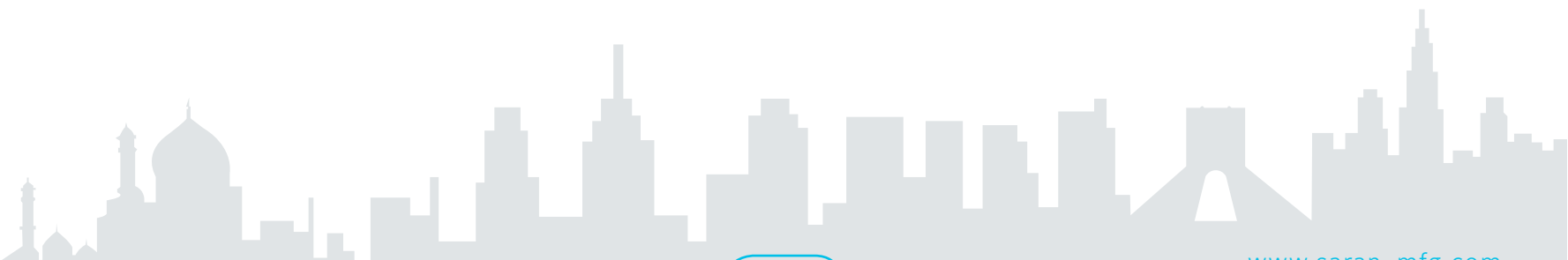


Evaporator Pressure Drop (Screw Compressor - R134a)



NOTE

- The above data is subject to change without notice.





Technical Data

Table 12a: Technical Data (Scroll Compressor)

Models	Refrigerant Charge (kg)			U.S. Gals	Oil Charge		Weight (kg)				Evap. Connections	
	R22	R407C	R134a		Type	Net		Oper.		R22,R407C	R134a	
						R22	R407C,R134a	R22,R407C	R134a			R22,R407C
1SRLCH-5AR	2.2	2.1	2.2	0.44	mineral	Polyolester	128	117	144	135	2×1 1/2"	2×1 1/2"
1SRLCH-7.5AR	3.3	3.1	3.3	0.70	mineral	Polyolester	179	166	207	182	2×1 1/2"	2×1 1/2"
1SRLCH-10AR	4.5	4.3	4.6	0.89	mineral	Polyolester	208	203	233	232	2×2"	2×1 1/2"
1SRLCH-15AR	7.1	6.8	7.3	1.64	mineral	Polyolester	311	271	349	298	2×2"	2×2"
1SRLCH-20AR	8.3	7.9	8.5	2.11	mineral	Polyolester	374	377	411	416	2×2 1/2"	2×2"
1SRLCH-25AR	10.7	10.2	10.9	2.11	mineral	Polyolester	460	411	518	449	2×2 1/2"	2×2 1/2"
1SRLCH-30AR	12.4	11.9	12.7	2.22	mineral	Polyolester	485	479	540	538	2×3"	2×2 1/2"
2SRLCH-10AR	4.4	4.2	5.1	0.88	mineral	Polyolester	237	230	263	259	2×2"	2×2"
2SRLCH-15AR	6.1	5.9	7.2	1.40	mineral	Polyolester	292	302	332	330	2×2"	2×2"
2SRLCH-20AR	8.3	7.9	9.8	1.78	mineral	Polyolester	416	356	478	398	2×2 1/2"	2×2"
2SRLCH-30AR	10.4	10.0	10.7	3.28	mineral	Polyolester	539	523	597	586	2×3"	2×2 1/2"
2SRLCH-40AR	13.9	13.4	14.2	4.22	mineral	Polyolester	706	682	792	742	2×3"	2×3"
2SRLCH-50AR	17.0	16.3	17.4	4.22	mineral	Polyolester	790	761	893	848	2×3"	2×3"
2SRLCH-60AR	20.5	19.6	20.9	4.44	mineral	Polyolester	840	829	937	933	2×3"	2×3"
4SRLCH-60AR	20.5	19.6	20.9	6.56	mineral	Polyolester	936	925	1033	1029	2×3"	2×3"
4SRLCH-80AR	31.3	26.2	27.9	8.44	mineral	Polyolester	1398	1023	1577	1148	2×4"	2×3"
4SRLCH-100AR	42.4	40.7	43.3	8.44	mineral	Polyolester	1620	1042	1858	1336	2×4"	2×4"
4SRLCH-120AR	49.3	47.4	50.5	8.88	mineral	Polyolester	1719	1113	1945	1460	2×5"	2×5"

NOTE

- The above data is subject to change without notice.



Technical Data (Cont.)

Table 12b: Technical Data (Reciprocating Compressor)

Models	Refrigerant Charge (kg)			Oil Charge				Weight (kg)				Evap. Connections
	R22	R407C	R134a	U.S. Gals		Type		Net		Oper.		
				R22,R407C	R134a	R22	R407C,R134a	R22,R407C	R134a	R22,R407C	R134a	
1SRLCR-5AR	2.2	2.1	2.3	0.53	0.53	mineral	Polyolester	175	179	190	194	2×1 1/2"
1SRLCR-7.5AR	3.3	3.1	3.4	0.53	0.69	mineral	Polyolester	211	263	238	291	2×1 1/2"
1SRLCR-10AR	4.5	4.3	4.7	0.69	0.69	mineral	Polyolester	276	299	301	325	2×2"
1SRLCR-15AR	7.1	6.8	7.5	0.69	0.69	mineral	Polyolester	352	355	390	395	2×2"
1SRLCR-20AR	8.3	7.9	8.7	0.69	1.06	mineral	Polyolester	368	425	405	462	2×2 1/2"
1SRLCR-25AR	10.7	10.2	11.2	1.06	1.19	mineral	Polyolester	493	509	551	567	2×2 1/2"
1SRLCR-30AR	12.4	11.9	13.1	1.19	1.25	mineral	Polyolester	527	564	582	620	2×3"
1SRLCR-35AR	15.2	14.6	16.1	1.25	1.25	mineral	Polyolester	623	627	707	712	2×3"
1SRLCR-40AR	17.4	16.7	18.4	1.25	1.25	mineral	Polyolester	650	654	730	735	2×3"
1SRLCR-50AR	20.3	19.5	21.4	1.25	1.32	mineral	Polyolester	737	879	849	992	2×3"
1SRLCR-60AR	23.2	22.3	24.5	1.32	1.32	mineral	Polyolester	909	940	1016	1048	2×3"
2SRLCR-10AR	4.6	4.4	4.8	1.06	1.06	mineral	Polyolester	330	338	356	364	2×2"
2SRLCR-15AR	6.4	6.2	6.7	1.06	1.38	mineral	Polyolester	356	460	395	500	2×2"
2SRLCR-20AR	8.7	8.3	9.1	1.38	1.38	mineral	Polyolester	551	598	614	661	2×2 1/2"
2SRLCR-30AR	10.9	10.5	11.6	1.38	1.38	mineral	Polyolester	621	628	679	688	2×3"
2SRLCR-40AR	14.6	14.1	15.4	1.38	2.12	mineral	Polyolester	694	808	780	896	2×3"
2SRLCR-50AR	17.9	17.1	18.8	2.12	2.38	mineral	Polyolester	856	887	959	991	2×3"
2SRLCR-60AR	21.5	20.6	22.7	2.38	2.50	mineral	Polyolester	924	999	1021	1097	2×3"
2SRLCR-70AR	28.7	27.5	30.2	2.50	2.50	mineral	Polyolester	1129	1136	1258	1267	2×4"
2SRLCR-80AR	32.9	31.6	34.8	2.50	2.50	mineral	Polyolester	1213	1221	1392	1401	2×4"
2SRLCR-100AR	44.5	42.7	46.9	2.50	2.64	mineral	Polyolester	1370	1653	1608	1894	2×4"
2SRLCR-120AR	51.8	49.8	54.6	2.64	2.64	mineral	Polyolester	1726	1789	1952	2017	2×5"
4SRLCR-80AR	34.4	33.1	36.4	2.76	4.24	mineral	Polyolester	1374	1603	1553	1784	2×4"
4SRLCR-100AR	46.6	44.8	49.2	4.24	4.76	mineral	Polyolester	1752	1815	1990	2055	2×4"
4SRLCR-120AR	54.2	52.1	57.2	4.76	5.00	mineral	Polyolester	1887	2038	2113	2267	2×5"
4SRLCR-140AR	58.7	56.4	61.9	5.00	5.00	mineral	Polyolester	2186	2202	2442	2461	2×5"
4SRLCR-160AR	69.9	67.1	73.7	5.00	5.00	mineral	Polyolester	2202	2218	2559	2579	2×5"
4SRLCR-200AR	90.5	86.9	95.4	5.00	5.28	mineral	Polyolester	2930	3496	3512	4084	2×6"
4SRLCR-240AR	113.8	109.3	120.0	5.28	5.28	mineral	Polyolester	3654	3779	4211	4342	2×6"

NOTE

- The above data is subject to change without notice.



Technical Data (Cont.)

Table 12c: Technical Data (Screw Compressor)

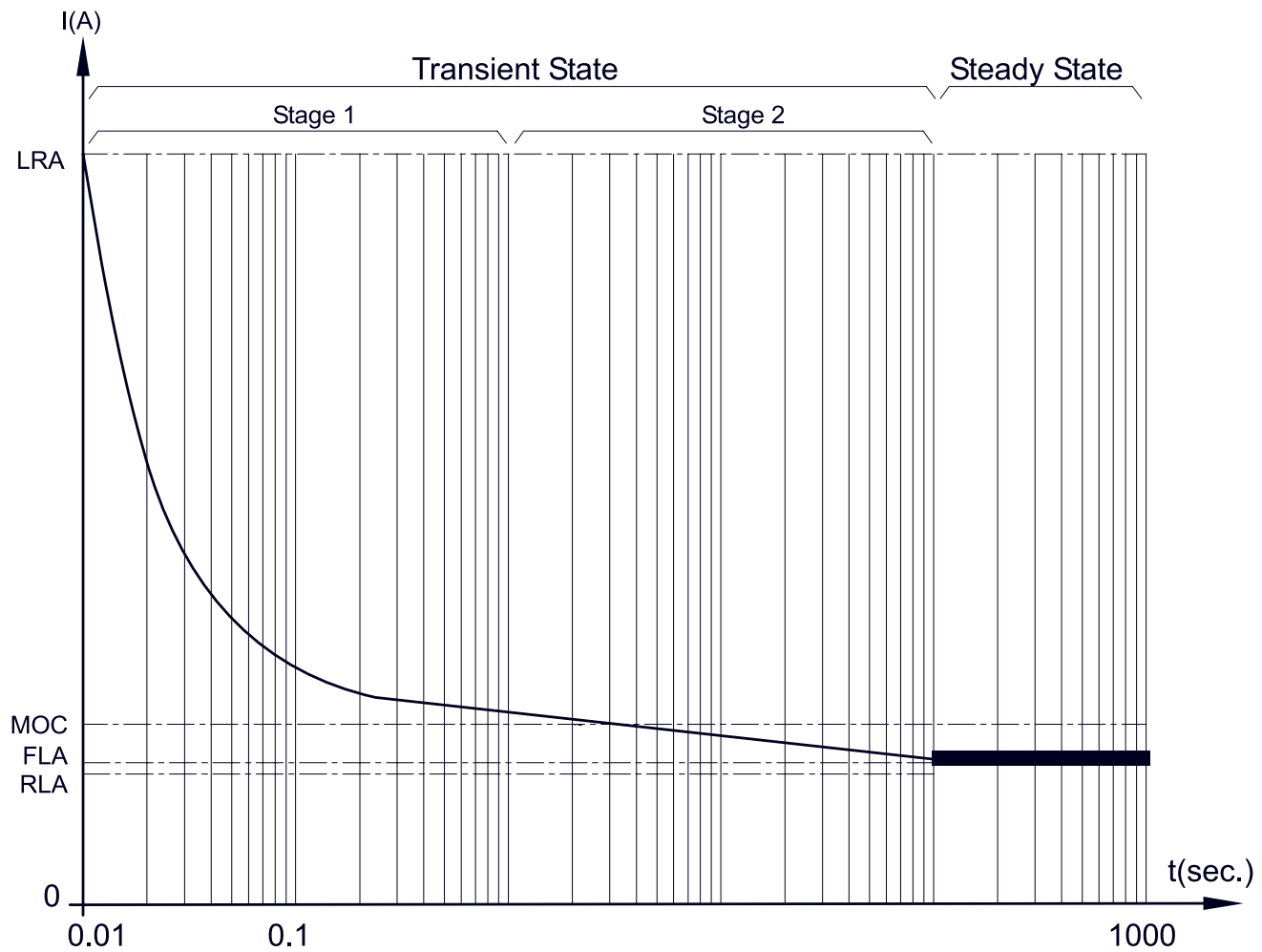
Models	Refrigerant Charge (kg)			Oil Charge			Weight (kg)				Evap. Connections
	R22	R407C	R134a	U.S. Gals		Type	Net		Oper.		
				R22,R407C	R134a	R22, R407C, R134a	R22,R407C	R134a	R22,R407C	R134a	
1SRLCS-50AR	20.3	19.5	21.4	2.51	3.96	Polyolester	778	990	901	1112	2×3"
1SRLCS-60AR	23.2	22.3	24.5	2.51	3.96	Polyolester	808	1026	926	1143	2×3"
1SRLCS-70AR	27.3	26.2	28.8	3.96	3.96	Polyolester	1084	1101	1226	1242	2×4"
1SRLCS-80AR	31.3	30.1	33.1	3.96	5.81	Polyolester	1166	1518	1363	1714	2×4"
1SRLCS-90AR	38.9	37.3	41.0	3.96	5.81	Polyolester	1259	1611	1442	1792	2×4"
1SRLCS-110AR	46.4	44.6	49.0	5.81	5.81	Polyolester	1710	1732	1964	1984	2×5"
1SRLCS-125AR	49.3	47.4	52.0	5.81	5.02	Polyolester	1751	1784	2000	2031	2×5"
1SRLCS-140AR	53.4	51.3	56.3	5.81	5.02	Polyolester	1903	1947	2185	2227	2×5"
1SRLCS-160AR	63.5	61.0	67.0	5.02	7.93	Polyolester	2083	2545	2476	2935	2×5"
1SRLCS-180AR	78.3	75.2	82.6	5.02	7.93	Polyolester	2264	2715	2629	3077	2×6"
1SRLCS-210AR	86.2	82.8	90.9	7.93	7.93	Polyolester	2833	2899	3287	3349	2×6"
2SRLCS-100AR	43.2	41.5	45.6	5.02	7.92	Polyolester	1452	1876	1714	2141	2×4"
2SRLCS-120AR	50.3	48.3	53.0	5.02	7.92	Polyolester	1524	1960	1773	2212	2×5"
2SRLCS-140AR	54.5	52.3	57.4	7.92	7.92	Polyolester	2090	2123	2372	2409	2×5"
2SRLCS-160AR	64.8	62.2	68.3	7.92	11.62	Polyolester	2259	2963	2652	3360	2×5"
2SRLCS-180AR	79.9	76.7	84.3	7.92	11.62	Polyolester	2487	3191	2956	3665	2×6"
2SRLCS-220AR	87.9	84.5	92.7	11.62	11.62	Polyolester	3509	3553	4149	4199	2×6"
2SRLCS-250AR	110.6	106.2	116.6	11.62	10.04	Polyolester	3695	3761	4307	4380	2×6"
2SRLCS-280AR	120.8	116.0	127.4	11.62	10.04	Polyolester	3821	3909	4415	4511	2×6"
4SRLCS-200AR	92.6	88.9	97.7	10.04	15.84	Polyolester	2940	3789	3457	4312	2×6"
4SRLCS-240AR	104.8	100.6	110.6	10.04	15.84	Polyolester	3130	4001	3764	4641	2×6"
4SRLCS-280AR	125.5	120.5	132.4	15.84	15.84	Polyolester	4185	4251	4782	4855	2×6"
4SRLCS-320AR	133.5	128.1	140.7	15.84	23.24	Polyolester	4518	5926	5304	6719	4×5"
4SRLCS-360AR	164.5	158.0	173.6	15.84	23.24	Polyolester	4974	6382	5912	7329	4×6"

NOTE

- The above data is subject to change without notice.

Electrical Data

Electrical Schematic Curve at the Start-Up



NOTE

- The transient stage is drastically reduce 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.(stage1).

Maximum Operating Current (MOC):

Maximum electrical current tolerates 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. Other wise 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 13a: Chiller Electrical Data (Scroll Compressor)-R22

Model	Per Compressor							System			
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	Cable Size
1SRLCH-5AR	5	D.O.L	7.75	8.95	11	65.5	5	7.75	8.95	5	4*2.5
1SRLCH-7.5AR	7.5	D.O.L	11.55	13.6	15.9	95	7.45	11.55	13.6	7.45	4*4
1SRLCH-10AR	10	D.O.L	14.6	17.1	19.6	118	10	14.6	17.1	10	4*4
1SRLCH-15AR	15	D.O.L	22.7	25.85	35	175	14.95	22.7	25.85	14.95	4*6
1SRLCH-20AR	20	D.O.L	28.8	33.55	50	215	20.1	28.8	33.55	20.1	4*10
1SRLCH-25AR	25	D.O.L	36.55	42.55	69	270	25.4	36.55	42.55	25.4	4*16
1SRLCH-30AR	30	D.O.L	41.8	49.1	79	300	30.15	41.8	49.1	30.15	3*25/16
2SRLCH-10AR	5	D.O.L	7.75	8.95	11	65.5	5	15.5	17.9	10	4*4
2SRLCH-15AR	7.5	D.O.L	11.55	13.6	15.9	95	7.45	23.1	27.2	14.9	4*10
2SRLCH-20AR	10	D.O.L	14.6	17.1	19.6	118	10	29.2	34.2	20	4*10
2SRLCH-30AR	15	D.O.L	22.7	25.85	35	175	14.95	45.4	51.7	29.9	4*16
2SRLCH-40AR	20	D.O.L	28.8	33.55	50	215	20.1	57.6	67.1	40.2	3*25/16
2SRLCH-50AR	25	D.O.L	36.55	42.55	69	270	25.4	73.1	85.1	50.8	3*35/16
2SRLCH-60AR	30	D.O.L	41.8	49.1	79	300	30.15	83.6	98.2	60.3	3*50/25
4SRLCH-60AR	15	D.O.L	22.7	25.85	35	175	14.95	90.8	103.4	59.8	3*50/25
4SRLCH-80AR	20	D.O.L	28.8	33.55	50	215	20.1	115.2	134.2	80.4	3*70/35
4SRLCH-100AR	25	D.O.L	36.55	42.55	69	270	25.4	146.2	170.2	101.6	3*120/70
4SRLCH-120AR	30	D.O.L	41.8	49.1	79	300	30.15	167.2	196.4	120.6	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 Online Start Type
- Cable size are based on copper conductor at maximum ambient temperature of 40°C and maximum distance of 70 meter.
- Starting type of compressors may be change based on the unit operation condition.
- All above data subject to change without notice.



Electrical Data (Cont.)

Table 13b: Chiller Electrical Data (Scroll Compressor)-R407C

Model	Per Compressor							System			
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	Cable Size
1SRLCH-5AR	5	D.O.L	7.05	8.3	12	59	5	7.05	8.3	5	4*2.5
1SRLCH-7.5AR	7.5	D.O.L	12	13.7	15.9	95	7.65	12	13.7	7.65	4*4
1SRLCH-10AR	10	D.O.L	14.8	17.35	19.6	118	9.95	14.8	17.35	9.95	4*4
1SRLCH-15AR	15	D.O.L	22.25	26.5	35	175	15.2	22.25	26.5	15.2	4*6
1SRLCH-20AR	20	D.O.L	28.85	34.05	50	215	20.7	28.85	34.05	20.7	4*10
1SRLCH-25AR	25	D.O.L	35.55	41.85	69	270	25.35	35.55	41.85	25.35	4*16
1SRLCH-30AR	30	D.O.L	41.55	48.95	79	300	30.6	41.55	48.95	30.6	3*25/16
2SRLCH-10AR	5	D.O.L	7.05	8.3	12	59	5	14.1	16.6	10	4*4
2SRLCH-15AR	7.5	D.O.L	12	13.7	15.9	95	7.65	24	27.4	15.3	4*10
2SRLCH-20AR	10	D.O.L	14.8	17.35	19.6	118	9.95	29.6	34.7	19.9	4*10
2SRLCH-30AR	15	D.O.L	22.25	26.5	35	175	15.2	44.5	53	30.4	4*16
2SRLCH-40AR	20	D.O.L	28.85	34.05	50	215	20.7	57.7	68.1	41.4	3*25/16
2SRLCH-50AR	25	D.O.L	35.55	41.85	69	270	25.35	71.1	83.7	50.7	3*35/16
2SRLCH-60AR	30	D.O.L	41.55	48.95	79	300	30.6	83.1	97.9	61.2	3*50/25
4SRLCH-60AR	15	D.O.L	22.25	26.5	35	175	15.2	89	106	60.8	3*50/25
4SRLCH-80AR	20	D.O.L	28.85	34.05	50	215	20.7	115.4	136.2	82.8	3*70/35
4SRLCH-100AR	25	D.O.L	35.55	41.85	69	270	25.35	142.2	167.4	101.4	3*120/70
4SRLCH-120AR	30	D.O.L	41.55	48.95	79	300	30.6	166.2	195.8	122.4	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 Online Start Type
- Cable size are based on copper conductor at maximum ambient temperature of 40°C and maximum distance of 70 meter.
- Starting type of compressors may be change based on the unit operation condition
- All above data subject to change without notice.



Electrical Data (Cont.)

Table 13c: Chiller Electrical Data (Scroll Compressor)-R134a

Model	Per Compressor							System			
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	Cable Size
1SRLCH-5AR	5	D.O.L	5.65	6.35	11	65.5	3.3	5.65	6.35	3.3	4*2.5
1SRLCH-7.5AR	7.5	D.O.L	9.75	10.65	15.9	95	5.1	9.75	10.65	5.1	4*2.5
1SRLCH-10AR	10	D.O.L	11.6	12.9	19.6	118	6.55	11.6	12.9	6.55	4*4
1SRLCH-15AR	15	D.O.L	21.4	22.85	34	174	10.35	21.4	22.85	10.35	4*6
1SRLCH-20AR	20	D.O.L	22.3	25	50	215	13.9	22.3	25	13.9	4*6
1SRLCH-25AR	25	D.O.L	28.4	32.05	69	270	17.35	28.4	32.05	17.35	4*10
1SRLCH-30AR	30	D.O.L	30.9	35.3	79	300	20.7	30.9	35.3	20.7	4*10
2SRLCH-10AR	5	D.O.L	5.65	6.35	11	65.5	3.3	11.3	12.7	6.6	4*4
2SRLCH-15AR	7.5	D.O.L	9.75	10.65	15.9	95	5.1	19.5	21.3	10.2	4*6
2SRLCH-20AR	10	D.O.L	11.6	12.9	19.6	118	6.55	23.2	25.8	13.1	4*6
2SRLCH-30AR	15	D.O.L	21.4	22.85	34	174	10.35	42.8	45.7	20.7	4*16
2SRLCH-40AR	20	D.O.L	22.3	25	50	215	13.9	44.6	50	27.8	4*16
2SRLCH-50AR	25	D.O.L	28.4	32.05	69	270	17.35	56.8	64.1	34.7	3*25/16
2SRLCH-60AR	30	D.O.L	30.9	35.3	79	300	20.7	61.8	70.6	41.4	3*35/16
4SRLCH-60AR	15	D.O.L	21.4	22.85	34	174	10.35	85.6	91.4	41.4	3*50/25
4SRLCH-80AR	20	D.O.L	22.3	25	50	215	13.9	89.2	100	55.6	3*50/25
4SRLCH-100AR	25	D.O.L	28.4	32.05	69	270	17.35	113.6	128.2	69.4	3*70/35
4SRLCH-120AR	30	D.O.L	30.9	35.3	79	300	20.7	123.6	141.2	82.8	3*95/50

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 Online Start Type
- Cable size are based on copper conductor at maximum ambient temperature of 40°C and maximum distance of 70 meter.
- Starting type of compressors may be change based on the unit operation condition
- All above data subject to change without notice.

Electrical Data (Cont.)

Table 14a: Chiller Electrical Data (Reciprocating Compressor)-R22

Model	Per Compressor							System			
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	Cable Size
1SRLCR-5AR	5	D.O.L	8.3	9.6	10.8	62.2	5.5	8.3	9.6	5.5	4*2.5
1SRLCR-7.5AR	7.5	D.O.L	12.05	14.2	16.5	82.4	8.35	12.05	14.2	8.35	4*4
1SRLCR-10AR	10	PW	15.15	17.85	19.9	59/99	10.4	15.15	17.85	10.4	4*4
1SRLCR-15AR	15	PW	21.2	25.1	28.2	81/132	14.6	21.2	25.1	14.6	4*6
1SRLCR-20AR	20	PW	24.3	28.8	33.2	97/158	17.1	24.3	28.8	17.1	4*10
1SRLCR-25AR	25	PW	32.7	38.9	44	125/211	23	32.7	38.9	23	4*16
1SRLCR-30AR	30	PW	38.5	45.4	51.2	141/233	26.4	38.5	45.4	26.4	4*16
1SRLCR-35AR	35	PW	50.2	59.8	64.4	165/275	35.1	50.2	59.8	35.1	3*25/16
1SRLCR-40AR	40	PW	58.6	68.3	73.9	219/362	39.6	58.6	68.3	39.6	3*25/16
1SRLCR-50AR	50	PW	77.9	87.2	96.2	226/404	48.1	77.9	87.2	48.1	3*35/16
1SRLCR-60AR	60	PW	91.5	107.2	113	349/513	59	91.5	107.2	59	3*50/25
2SRLCR-10AR	5	D.O.L	8.3	9.6	10.8	62.2	5.5	16.6	19.2	11	4*4
2SRLCR-15AR	7.5	D.O.L	12.05	14.2	16.5	82.4	8.35	24.1	28.4	16.7	4*10
2SRLCR-20AR	10	PW	15.15	17.85	19.9	59/99	10.4	30.3	35.7	20.8	4*10
2SRLCR-30AR	15	PW	21.2	25.1	28.2	81/132	14.6	42.4	50.2	29.2	4*16
2SRLCR-40AR	20	PW	24.3	28.8	33.2	97/158	17.1	48.6	57.6	34.2	3*25/16
2SRLCR-50AR	25	PW	32.7	38.9	44	125/211	23	65.4	77.8	46	3*35/16
2SRLCR-60AR	30	PW	38.5	45.4	51.2	141/233	26.4	77	90.8	52.8	3*50/25
2SRLCR-70AR	35	PW	50.2	59.8	64.4	165/275	35.1	100.4	119.6	70.2	3*70/35
2SRLCR-80AR	40	PW	58.6	68.3	73.9	219/362	39.6	117.2	136.6	79.2	3*95/50
2SRLCR-100AR	50	PW	77.9	87.2	96.2	226/404	48.1	155.8	174.4	96.2	3*120/70
2SRLCR-120AR	60	PW	91.5	107.2	113	349/513	59	183	214.4	118	3*150/70
4SRLCR-80AR	20	PW	24.3	28.8	33.2	97/158	17.1	97.2	115.2	68.4	3*70/35
4SRLCR-100AR	25	PW	32.7	38.9	44	125/211	23	130.8	155.6	92	3*95/50
4SRLCR-120AR	30	PW	38.5	45.4	51.2	141/233	26.4	154	181.6	105.6	3*120/70
4SRLCR-140AR	35	PW	50.2	59.8	64.4	165/275	35.1	200.8	239.2	140.4	3*185/95
4SRLCR-160AR	40	PW	58.6	68.3	73.9	219/362	39.6	234.4	273.2	158.4	3*240/120
4SRLCR-200AR	50	PW	77.9	87.2	96.2	226/404	48.1	311.6	348.8	192.4	2*(3*120/70)
4SRLCR-240AR	60	PW	91.5	107.2	113	349/513	59	366	428.8	236	2*(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 Online Start Type
- 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.
- Starting type of compressors may be change based on the unit operation condition
- All above data subject to change without notice.

Electrical Data (Cont.)

Table 14b: Chiller Electrical Data(Reciprocating Compressor)-R407C

Model	Per Compressor							System			
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	Cable Size
1SRLCR-5AR	5	D.O.L	8.17	9.57	10.8	62.2	5.47	8.17	9.57	5.47	4*2.5
1SRLCR-7.5AR	7.5	D.O.L	11.8	14.05	16.5	82.4	8.27	11.8	14.05	8.27	4*4
1SRLCR-10AR	10	PW	14.45	16.85	19.9	59/99	9.75	14.45	16.85	9.75	4*4
1SRLCR-15AR	15	PW	20.2	23.6	28.2	81/132	13.65	20.2	23.6	13.65	4*6
1SRLCR-20AR	20	PW	23.1	27.1	33.2	97/158	16	23.1	27.1	16	4*10
1SRLCR-25AR	25	PW	31.5	37.5	44	125/211	22.1	31.5	37.5	22.1	4*16
1SRLCR-30AR	30	PW	37.6	44.6	51.2	141/233	25.9	37.6	44.6	25.9	4*16
1SRLCR-35AR	35	PW	47.9	57.3	64.4	165/275	33.5	47.9	57.3	33.5	3*25/16
1SRLCR-40AR	40	PW	57.5	67.4	73.9	219/362	39	57.5	67.4	39	3*25/16
1SRLCR-50AR	50	PW	75.7	84.9	96.2	266/404	46	75.7	84.9	46	3*35/16
1SRLCR-60AR	60	PW	90.2	106.1	113	349/513	58.3	90.2	106.1	58.3	3*50/25
2SRLCR-10AR	5	D.O.L	8.17	9.57	10.8	62.2	5.47	16.34	19.14	10.94	4*4
2SRLCR-15AR	7.5	D.O.L	11.8	14.05	16.5	82.4	8.27	23.6	28.1	16.54	4*10
2SRLCR-20AR	10	PW	14.45	16.85	19.9	59/99	9.75	28.9	33.7	19.5	4*10
2SRLCR-30AR	15	PW	20.2	23.6	28.2	81/132	13.65	40.4	47.2	27.3	4*16
2SRLCR-40AR	20	PW	23.1	27.1	33.2	97/158	16	46.2	54.2	32	3*25/16
2SRLCR-50AR	25	PW	31.5	37.5	44	125/211	22.1	63	75	44.2	3*35/16
2SRLCR-60AR	30	PW	37.6	44.6	51.2	141/233	25.9	75.2	89.2	51.8	3*50/25
2SRLCR-70AR	35	PW	47.9	57.3	64.4	165/275	33.5	95.8	114.6	67	3*70/35
2SRLCR-80AR	40	PW	57.5	67.4	73.9	219/362	39	115	134.8	78	3*95/50
2SRLCR-100AR	50	PW	75.7	84.9	96.2	266/404	46	151.4	169.8	92	3*120/70
2SRLCR-120AR	60	PW	90.2	106.1	113	349/513	58.3	180.4	212.2	116.6	3*150/70
4SRLCR-80AR	20	PW	23.1	27.1	33.2	97/158	16	92.4	108.4	64	3*70/35
4SRLCR-100AR	25	PW	31.5	37.5	44	125/211	22.1	126	150	88.4	3*95/50
4SRLCR-120AR	30	PW	37.6	44.6	51.2	141/233	25.9	150.4	178.4	103.6	3*120/70
4SRLCR-140AR	35	PW	47.9	57.3	64.4	165/275	33.5	191.6	229.2	134	3*185/95
4SRLCR-160AR	40	PW	57.5	67.4	73.9	219/362	39	230	269.6	156	3*240/120
4SRLCR-200AR	50	PW	75.7	84.9	96.2	266/404	46	302.8	339.6	184	2*(3*120/70)
4SRLCR-240AR	60	PW	90.2	106.1	113	349/513	58.3	360.8	424.4	233.2	2*(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 Online Start Type
- 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.
- Starting type of compressors may be change based on the unit operation condition
- All above data subject to change without notice.

Electrical Data (Cont.)

Table 14c: Chiller Electrical Data (Reciprocating Compressor)-R134a

Model	Per Compressor							System			
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	Cable Size
1SRLCR-5AR	5	D.O.L	8.2	9.8	14.5	62.2	5.6	8.2	9.8	5.6	4*2.5
1SRLCR-7.5AR	7.5	PW	9.9	11.9	16.6	39/68	6.95	9.9	11.9	6.95	4*2.5
1SRLCR-10AR	10	PW	13.65	16.3	22.7	59/99	9.35	13.65	16.3	9.35	4*4
1SRLCR-15AR	15	PW	15.75	19	26.6	69/113	11.2	15.75	19	11.2	4*4
1SRLCR-20AR	20	PW	21.5	25.7	36.7	97/158	15.05	21.5	25.7	15.05	4*6
1SRLCR-25AR	25	PW	24.3	29.5	43.9	97/158	17.55	24.3	29.5	17.55	4*10
1SRLCR-30AR	30	PW	33.4	39.9	53.2	141/233	22.7	33.4	39.9	22.7	4*16
1SRLCR-35AR	35	PW	38	45.8	65.5	141/233	26.7	38	45.8	26.7	4*16
1SRLCR-40AR	40	PW	49.6	57.5	83.2	219/362	31.9	49.6	57.5	31.9	3*25/16
1SRLCR-50AR	50	PW	63.9	74	92	298/438	38.9	63.9	74	38.9	3*35/16
1SRLCR-60AR	60	PW	75.7	87.3	113	349/513	45.7	75.7	87.3	45.7	3*35/16
2SRLCR-10AR	5	D.O.L	8.2	9.8	14.5	62.2	5.6	16.4	19.6	11.2	4*4
2SRLCR-15AR	7.5	PW	9.9	11.9	16.6	39/68	6.95	19.8	23.8	13.9	4*6
2SRLCR-20AR	10	PW	13.65	16.3	22.7	59/99	9.35	27.3	32.6	18.7	4*10
2SRLCR-30AR	15	PW	15.75	19	26.6	69/113	11.2	31.5	38	22.4	4*16
2SRLCR-40AR	20	PW	21.5	25.7	36.7	97/158	15.05	43	51.4	30.1	4*16
2SRLCR-50AR	25	PW	24.3	29.5	43.9	97/158	17.55	48.6	59	35.1	3*25/16
2SRLCR-60AR	30	PW	33.4	39.9	53.2	141/233	22.7	66.8	79.8	45.4	3*35/16
2SRLCR-70AR	35	PW	38	45.8	65.5	141/233	26.7	76	91.6	53.4	3*50/25
2SRLCR-80AR	40	PW	49.6	57.5	83.2	219/362	31.9	99.2	115	63.8	3*70/35
2SRLCR-100AR	50	PW	63.9	74	92	298/438	38.9	127.8	148	77.8	3*95/50
2SRLCR-120AR	60	PW	75.7	87.3	113	349/513	45.7	151.4	174.6	91.4	3*120/70
4SRLCR-80AR	20	PW	21.5	25.7	36.7	97/158	15.05	86	102.8	60.2	3*50/25
4SRLCR-100AR	25	PW	24.3	29.5	43.9	97/158	17.55	97.2	118	70.2	3*70/35
4SRLCR-120AR	30	PW	33.4	39.9	53.2	141/233	22.7	133.6	159.6	90.8	3*95/50
4SRLCR-140AR	35	PW	38	45.8	65.5	141/233	26.7	152	183.2	106.8	3*120/70
4SRLCR-160AR	40	PW	49.6	57.5	83.2	219/362	31.9	198.4	230	127.6	3*185/95
4SRLCR-200AR	50	PW	63.9	74	92	298/438	38.9	255.6	296	155.6	3*240/120
4SRLCR-240AR	60	PW	75.7	87.3	113	349/513	45.7	302.8	349.2	182.8	2*(3*120/70)

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 Online Start Type
- 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.
- Starting type of compressors may be change based on the unit operation condition
- All above data subject to change without notice.



Electrical Data (Cont.)

Table 15a: Chiller Electrical Data (Screw Compressor)-R22

Model	Per Compressor							System			
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	Cable Size
1SRLCS-50AR	50	PW	63.1	77.8	86	218/411	47	63.1	77.8	47	3*35/16
1SRLCS-60AR	60	PW	77.3	95.7	108	269/508	58.3	77.3	95.7	58.3	3*50/25
1SRLCS-70AR	70	PW	91.3	110.5	128	290/485	68.2	91.3	110.5	68.2	3*70/35
1SRLCS-80AR	80	PW	102.6	124	144	350/585	76.3	102.6	124	76.3	3*70/35
1SRLCS-90AR	90	PW	115.2	140.8	162	423/686	88.1	115.2	140.8	88.1	3*95/50
1SRLCS-110AR	110	PW	142.1	176.5	185	520/801	108.4	142.1	176.5	108.4	3*120/70
1SRLCS-125AR	125	PW	162.9	202	216	612/943	123.5	162.9	202	123.5	3*150/70
1SRLCS-140AR	140	PW	194.5	239	246	665/1023	146.7	194.5	239	146.7	3*185/95
1SRLCS-160AR	160	PW	209	244	260	729/1114	148.9	209	244	148.9	3*185/95
1SRLCS-180AR	180	PW	245	283	310	757/1181	169.5	245	283	169.5	3*240/120
1SRLCS-210AR	210	Y-D	272	339	370	586/1853	209	272	339	209	2*(3*120/70)
2SRLCS-100AR	50	PW	63.1	77.8	86	218/411	47	126.2	155.6	94	3*95/50
2SRLCS-120AR	60	PW	77.3	95.7	108	269/508	58.3	154.6	191.4	116.6	3*150/70
2SRLCS-140AR	70	PW	91.3	110.5	128	290/485	68.2	182.6	221	136.4	3*185/95
2SRLCS-160AR	80	PW	102.6	124	144	350/585	76.3	205.2	248	152.6	3*185/95
2SRLCS-180AR	90	PW	115.2	140.8	162	423/686	88.1	230.4	281.6	176.2	3*240/120
2SRLCS-220AR	110	PW	142.1	176.5	185	520/801	108.4	284.2	353	216.8	2*(3*120/70)
2SRLCS-250AR	125	PW	162.9	202	216	612/943	123.5	325.8	404	247	2*(3*150/70)
2SRLCS-280AR	140	PW	194.5	239	246	665/1023	146.7	389	478	293.4	2*(3*185/95)
4SRLCS-200AR	50	PW	63.1	77.8	86	218/411	47	252.4	311.2	188	2*(3*95/50)
4SRLCS-240AR	60	PW	77.3	95.7	108	269/508	58.3	309.2	382.8	233.2	2*(3*120/70)
4SRLCS-280AR	70	PW	91.3	110.5	128	290/485	68.2	365.2	442	272.8	2*(3*150/70)
4SRLCS-320AR	80	PW	102.6	124	144	350/585	76.3	410.4	496	305.2	2*(3*185/95)
4SRLCS-360AR	90	PW	115.2	140.8	162	423/686	88.1	460.8	563.2	352.4	2*(3*240/120)

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
- Y-D: Star-Delta Start Type
- Cable size are based on copper conductor at maximum ambient temperature of 40°C and maximum distance of 70 meter.
- All above data subject to change without notice.



Electrical Data (Cont.)

Table 15b: Chiller Electrical Data (Screw Compressor)-R407C

Model	Per Compressor							System			
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	Cable Size
1SRLCS-50AR	50	PW	62.2	75.9	86	218/411	45.7	62.2	75.9	45.7	3*35/16
1SRLCS-60AR	60	PW	76.2	93.3	108	269/508	56.8	76.2	93.3	56.8	3*50/25
1SRLCS-70AR	70	PW	87.4	104.5	128	290/485	64.2	87.4	104.5	64.2	3*70/35
1SRLCS-80AR	80	PW	98.6	119.4	144	350/585	73.3	98.6	119.4	73.3	3*70/35
1SRLCS-90AR	90	PW	110.3	135.4	162	423/686	84.5	110.3	135.4	84.5	3*95/50
1SRLCS-110AR	110	PW	141.8	178.3	185	520/801	109.5	141.8	178.3	109.5	3*120/70
1SRLCS-125AR	125	PW	162.5	204	216	612/943	124.8	162.5	204	124.8	3*150/70
1SRLCS-140AR	140	PW	184.3	232	246	665/1023	142.5	184.3	232	142.5	3*185/95
1SRLCS-160AR	160	PW	206	239	260	729/1114	146.1	206	239	146.1	3*185/95
1SRLCS-180AR	180	PW	238	273	310	757/1181	163.1	238	273	163.1	3*240/120
1SRLCS-210AR	210	Y-D	256	309	370	586/1853	190.6	256	309	190.6	2*(3*95/50)
2SRLCS-100AR	50	PW	62.2	75.9	86	218/411	45.7	124.4	151.8	91.4	3*95/50
2SRLCS-120AR	60	PW	76.2	93.3	108	269/508	56.8	152.4	186.6	113.6	3*120/70
2SRLCS-140AR	70	PW	87.4	104.5	128	290/485	64.2	174.8	209	128.4	3*185/95
2SRLCS-160AR	80	PW	98.6	119.4	144	350/585	73.3	197.2	238.8	146.6	3*185/95
2SRLCS-180AR	90	PW	110.3	135.4	162	423/686	84.5	220.6	270.8	169	3*240/120
2SRLCS-220AR	110	PW	141.8	178.3	185	520/801	109.5	283.6	356.6	219	2*(3*120/70)
2SRLCS-250AR	125	PW	162.5	204	216	612/943	124.8	325	408	249.6	2*(3*150/70)
2SRLCS-280AR	140	PW	184.3	232	246	665/1023	142.5	368.6	464	285	2*(3*185/95)
4SRLCS-200AR	50	PW	62.2	75.9	86	218/411	45.7	248.8	303.6	182.8	2*(3*95/50)
4SRLCS-240AR	60	PW	76.2	93.3	108	269/508	56.8	304.8	373.2	227.2	2*(3*120/70)
4SRLCS-280AR	70	PW	87.4	104.5	128	290/485	64.2	349.6	418	256.8	2*(3*150/70)
4SRLCS-320AR	80	PW	98.6	119.4	144	350/585	73.3	394.4	477.6	293.2	2*(3*185/95)
4SRLCS-360AR	90	PW	110.3	135.4	162	423/686	84.5	441.2	541.6	338	2*(3*240/120)

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)
- PW: Part Winding Start Type
- Y-D: Star-Delta Start Type
- Cable size are based on copper conductor at maximum ambient temperature of 40°C and maximum distance of 70 meter.
- All above data subject to change without notice.



Electrical Data (Cont.)

Table 15c: Chiller Electrical Data (Screw Compressor)-R134a

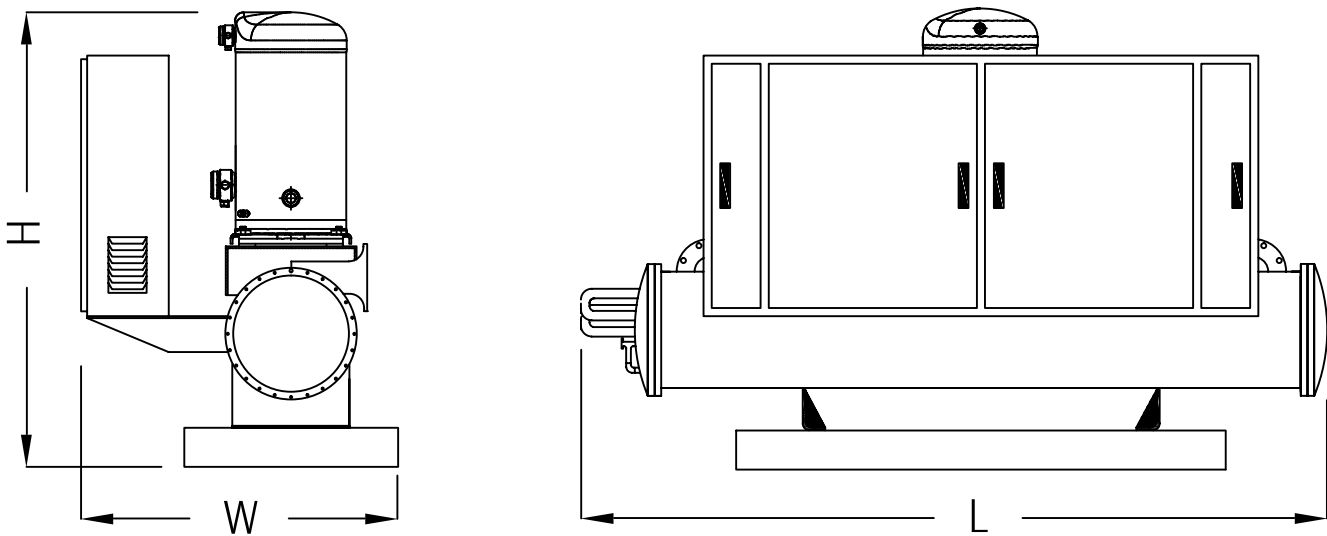
Model	Per Compressor							System			
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	Cable Size
1SRLCS-50AR	50	PW	58.2	70.9	79	206/355	42.4	58.2	70.9	42.4	3*35/16
1SRLCS-60AR	60	PW	67.3	81.4	98	267/449	48.9	67.3	81.4	48.9	3*35/16
1SRLCS-70AR	70	PW	75.9	91.9	124	290/485	55.5	75.9	91.9	55.5	3*50/25
1SRLCS-80AR	80	PW	85.3	105.2	144	394/606	67.6	85.3	105.2	67.6	3*50/25
1SRLCS-90AR	90	PW	99.8	123.7	155	439/675	77	99.8	123.7	77	3*70/35
1SRLCS-110AR	110	PW	118.1	144.6	182	520/801	87.5	118.1	144.6	87.5	3*95/50
1SRLCS-125AR	125	PW	134	163.7	196	612/943	98.4	134	163.7	98.4	3*120/70
1SRLCS-140AR	140	PW	151.3	185.1	214	665/1023	112	151.3	185.1	112	3*120/70
1SRLCS-160AR	160	Y-D	171.7	208	280	436/1364	128.2	171.7	208	128.2	3*150/70
1SRLCS-180AR	180	Y-D	188.5	230	310	465/1442	143.8	188.5	230	143.8	3*185/95
1SRLCS-210AR	210	Y-D	226	274	320	586/1853	167.2	226	274	167.2	3*240/120
2SRLCS-100AR	50	PW	58.2	70.9	79	206/355	42.4	116.4	141.8	84.8	3*95/50
2SRLCS-120AR	60	PW	67.3	81.4	98	267/449	48.9	134.6	162.8	97.8	3*120/70
2SRLCS-140AR	70	PW	75.9	91.9	124	290/485	55.5	151.8	183.8	111	3*120/70
2SRLCS-160AR	80	PW	85.3	105.2	144	394/606	67.6	170.6	210.4	135.2	3*150/70
2SRLCS-180AR	90	PW	99.8	123.7	155	439/675	77	199.6	247.4	154	3*185/95
2SRLCS-220AR	110	PW	118.1	144.6	182	520/801	87.5	236.2	289.2	175	3*240/120
2SRLCS-250AR	125	PW	134	163.7	196	612/943	98.4	268	327.4	196.8	2*(3*95/50)
2SRLCS-280AR	140	PW	151.3	185.1	214	665/1023	112	302.6	370.2	224	2*(3*120/70)
4SRLCS-200AR	50	PW	58.2	70.9	79	206/355	42.4	232.8	283.6	169.6	3*240/120
4SRLCS-240AR	60	PW	67.3	81.4	98	267/449	48.9	269.2	325.6	195.6	2*(3*95/50)
4SRLCS-280AR	70	PW	75.9	91.9	124	290/485	55.5	303.6	367.6	222	2*(3*120/70)
4SRLCS-320AR	80	PW	85.3	105.2	144	394/606	67.6	341.2	420.8	270.4	2*(3*150/70)
4SRLCS-360AR	90	PW	99.8	123.7	155	439/675	77	399.2	494.8	308	2*(3*185/95)

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
- Y-D:Star-Delta Start Type
- Cable size are based on copper conductor at maximum ambient temperature of 40°C and maximum distance of 70 meter.
- All above data subject to change without notice.



Dimensions



Scroll Compressor (R22 , R407C)

Model	L	W	H	Evap. Connections
1SRLCH-5AR	1350	900	1250	2×1 1/2"
1SRLCH-7.5AR	1350	900	1250	2×1 1/2"
1SRLCH-10AR	1400	900	1250	2×2"
1SRLCH-15AR	1400	1050	1400	2×2"
1SRLCH-20AR	1450	1050	1400	2×2 1/2"
1SRLCH-25AR	1450	1050	1400	2×2 1/2"
1SRLCH-30AR	1950	1050	1450	2×3"

Scroll Compressor (R134a)

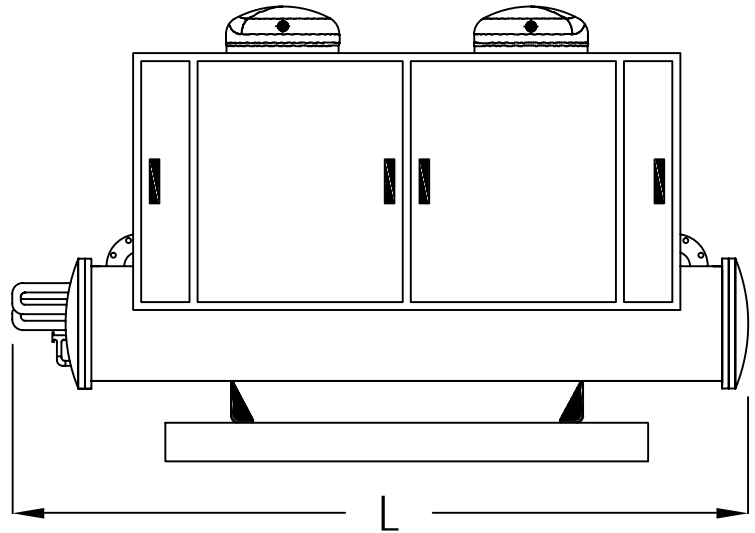
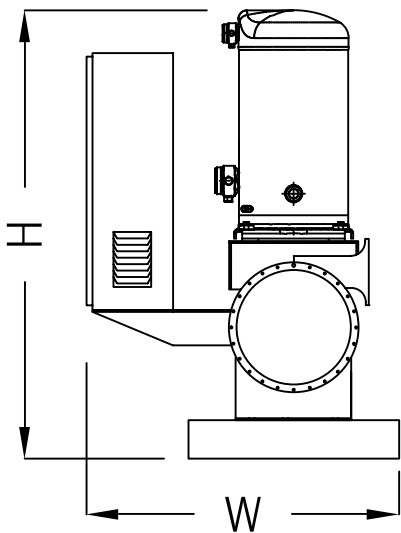
Model	L	W	H	Evap. Connections
1SRLCH-5AR	1350	900	1250	2×1 1/2"
1SRLCH-7.5AR	1350	900	1250	2×1 1/2"
1SRLCH-10AR	1350	900	1250	2×1 1/2"
1SRLCH-15AR	1400	1050	1350	2×2"
1SRLCH-20AR	1400	1050	1400	2×2"
1SRLCH-25AR	1450	1050	1450	2×2 1/2"
1SRLCH-30AR	1450	1050	1450	2×2 1/2"

NOTE

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



Dimensions (Cont.)



Scroll Compressor (R22 , R407C)

Model	L	W	H	Evap. Connections
2SRLCH-10AR	1950	900	1250	2×2"
2SRLCH-15AR	1950	900	1250	2×2"
2SRLCH-20AR	1950	900	1250	2×2 1/2"
2SRLCH-30AR	1950	1050	1400	2×3"
2SRLCH-40AR	1950	1050	1450	2×3"
2SRLCH-50AR	1950	1050	1500	2×3"
2SRLCH-60AR	1950	1050	1550	2×3"

Scroll Compressor (R134a)

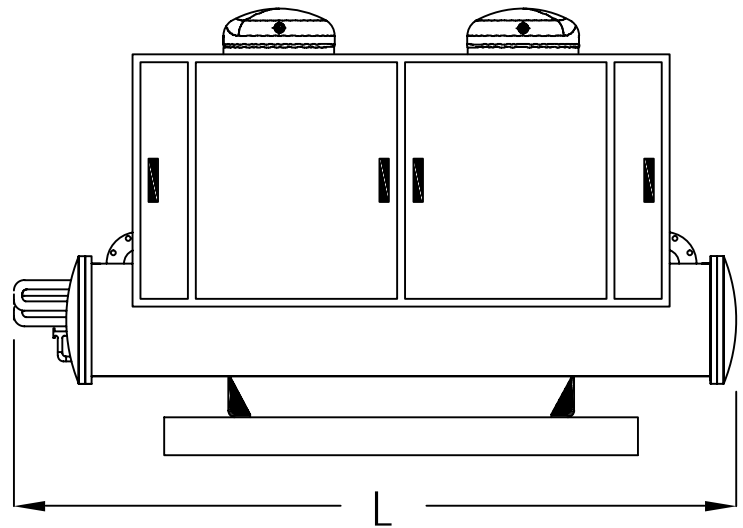
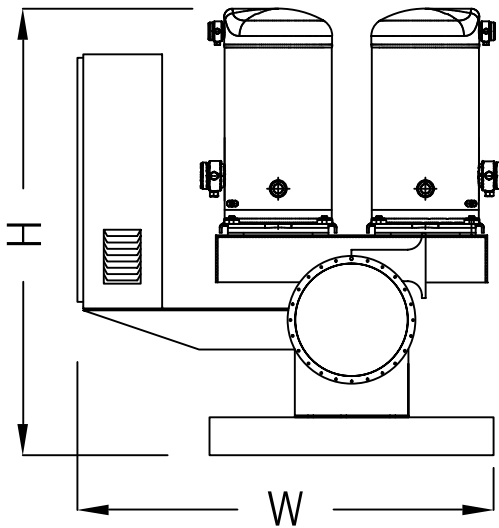
Model	L	W	H	Evap. Connections
2SRLCH-10AR	1950	900	1250	2×2"
2SRLCH-15AR	1950	900	1250	2×2"
2SRLCH-20AR	1950	900	1250	2×2"
2SRLCH-30AR	1950	1050	1400	2×2 1/2"
2SRLCH-40AR	1950	1050	1400	2×3"
2SRLCH-50AR	1950	1050	1500	2×3"
2SRLCH-60AR	1950	1050	1550	2×3"

NOTE

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



Dimensions (Cont.)



Scroll Compressor (R22 , R407C)

Model	L	W	H	Evap. Connections
4SRLCH-60AR	2000	1400	1500	2×3"
4SRLCH-80AR	2600	1450	1600	2×4"
4SRLCH-100AR	2600	1450	1650	2×4"
4SRLCH-120AR	2600	1450	1650	2×5"

Scroll Compressor (R134a)

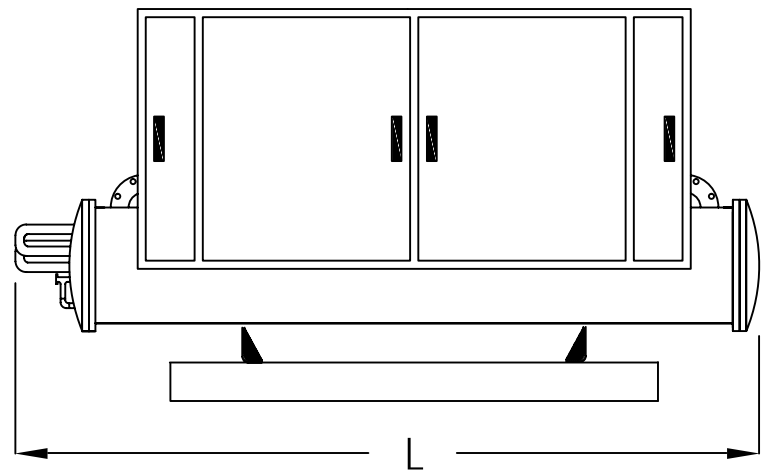
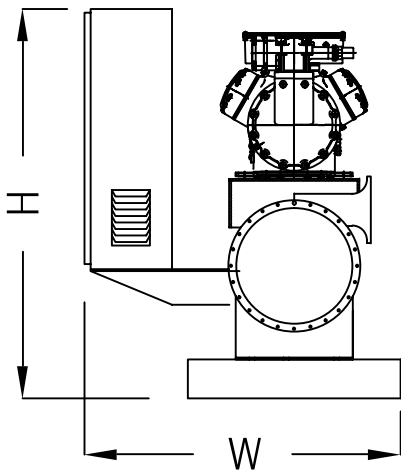
Model	L	W	H	Evap. Connections
4SRLCH-60AR	2000	1400	1500	2×3"
4SRLCH-80AR	2000	1450	1500	2×3"
4SRLCH-100AR	2600	1450	1600	2×4"
4SRLCH-120AR	2600	1450	1650	2×4"

NOTE

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



Dimensions (Cont.)



Reciprocating Compressor (R22 , R407C)

Model	L	W	H	Evap. Connections
1SRLCR-5AR	1350	900	1250	2×1 1/2"
1SRLCR-7.5AR	1350	900	1250	2×1 1/2"
1SRLCR-10AR	1400	900	1250	2×2"
1SRLCR-15AR	1400	900	1250	2×2"
1SRLCR-20AR	1450	900	1250	2×2 1/2"
1SRLCR-25AR	1450	1050	1250	2×2 1/2"
1SRLCR-30AR	1950	1050	1250	2×3"
1SRLCR-35AR	1950	1100	1250	2×3"
1SRLCR-40AR	1950	1100	1250	2×3"
1SRLCR-50AR	2500	1100	1250	2×3"
1SRLCR-60AR	2500	1100	1350	2×3"

Reciprocating Compressor (R134a)

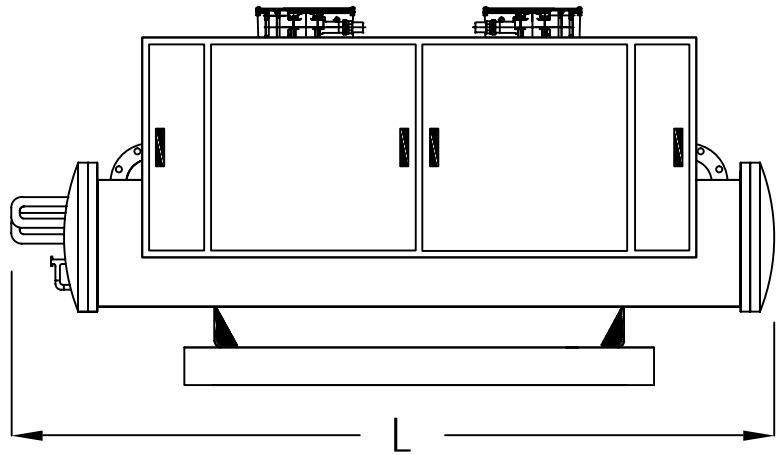
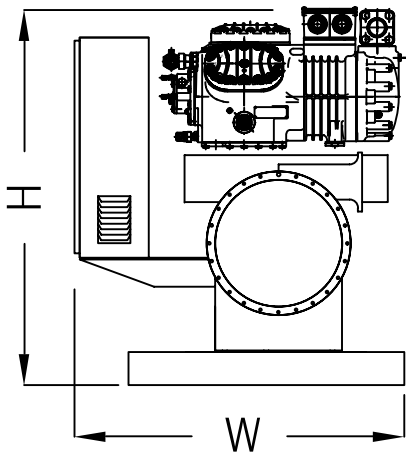
Model	L	W	H	Evap. Connections
1SRLCR-5AR	1350	900	1250	2×1 1/2"
1SRLCR-7.5AR	1350	900	1250	2×1 1/2"
1SRLCR-10AR	1400	900	1250	2×2"
1SRLCR-15AR	1400	900	1250	2×2"
1SRLCR-20AR	1450	1050	1250	2×2 1/2"
1SRLCR-25AR	1450	1050	1250	2×2 1/2"
1SRLCR-30AR	1950	1100	1250	2×3"
1SRLCR-35AR	1950	1100	1250	2×3"
1SRLCR-40AR	1950	1100	1250	2×3"
1SRLCR-50AR	2500	1100	1350	2×3"
1SRLCR-60AR	2500	1100	1350	2×3"

NOTE

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



Dimensions (Cont.)



Reciprocating Compressor (R22 , R407C)

Reciprocating Compressor (R134a)

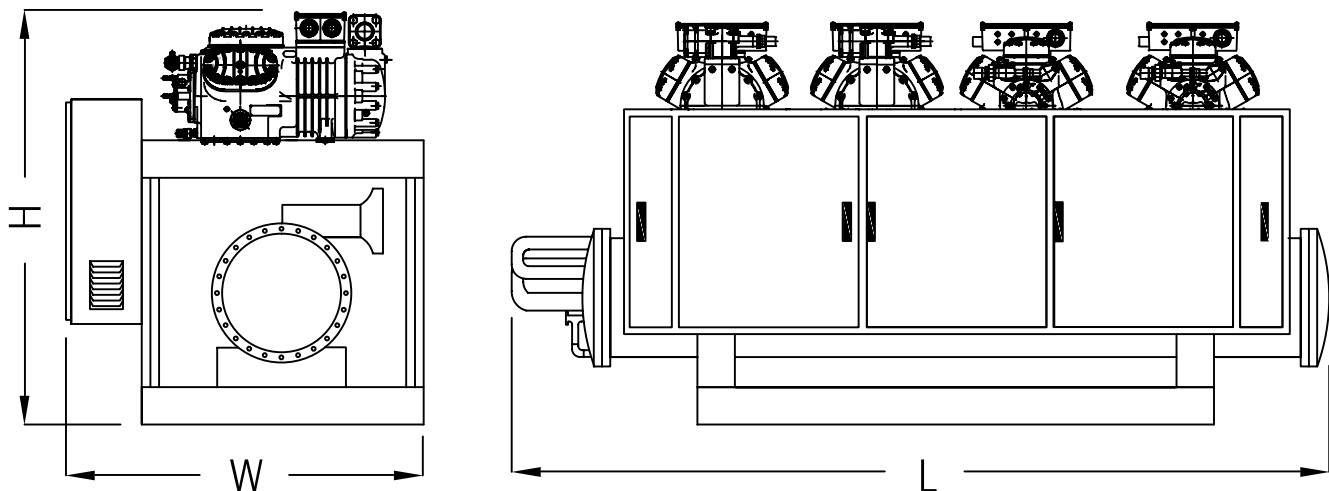
Model	L	W	H	Evap. Connections	Model	L	W	H	Evap. Connections
2SRLCR-10AR	1950	1000	1250	2×2"	2SRLCR-10AR	1950	1000	1250	2×2"
2SRLCR-15AR	1950	1000	1250	2×2"	2SRLCR-15AR	1950	1150	1250	2×2"
2SRLCR-20AR	1950	1200	1250	2×2 1/2"	2SRLCR-20AR	1950	1200	1250	2×2 1/2"
2SRLCR-30AR	1950	1200	1250	2×3"	2SRLCR-30AR	1950	1200	1250	2×3"
2SRLCR-40AR	1950	1200	1250	2×3"	2SRLCR-40AR	1950	1250	1250	2×3"
2SRLCR-50AR	1950	1300	1250	2×3"	2SRLCR-50AR	1950	1250	1250	2×3"
2SRLCR-60AR	1950	1300	1250	2×3"	2SRLCR-60AR	1950	1350	1250	2×3"
2SRLCR-70AR	2500	1350	1250	2×4"	2SRLCR-70AR	2500	1350	1250	2×4"
2SRLCR-80AR	2500	1350	1300	2×4"	2SRLCR-80AR	2500	1350	1300	2×4"
2SRLCR-100AR	2600	1350	1350	2×4"	2SRLCR-100AR	2600	1450	1450	2×4"
2SRLCR-120AR	2600	1450	1450	2×5"	2SRLCR-120AR	2600	1450	1450	2×5"

NOTE

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



Dimensions (Cont.)



Reciprocating Compressor (R22 , R407C)

Model	L	W	H	Evap. Connections
4SRLCR-80AR	2600	1250	1550	2×4"
4SRLCR-100AR	2600	1300	1650	2×4"
4SRLCR-120AR	2600	1300	1650	2×5"
4SRLCR-140AR	3650	1370	1650	2×5"
4SRLCR-160AR	3650	1370	1650	2×5"
4SRLCR-200AR	4700	1370	1750	2×6"
4SRLCR-240AR	4700	1500	1900	2×6"

Reciprocating Compressor (R134a)

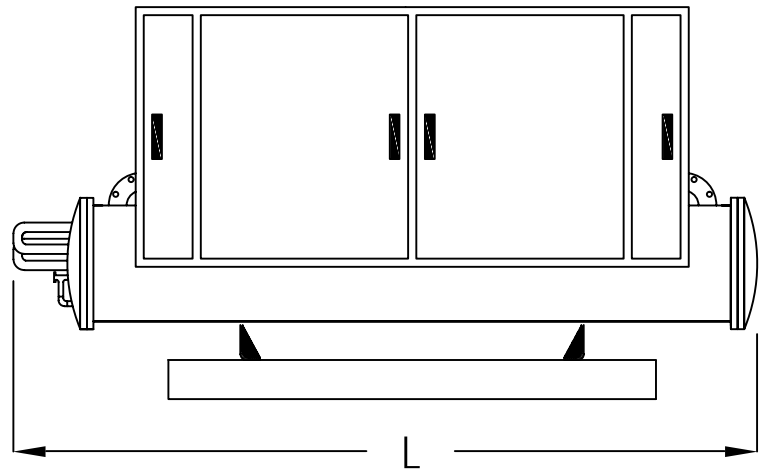
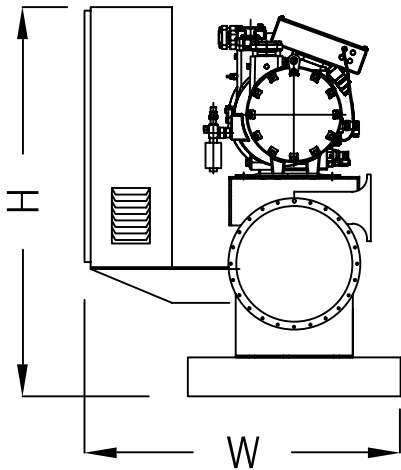
Model	L	W	H	Evap. Connections
4SRLCR-80AR	2600	1300	1600	2×4"
4SRLCR-100AR	2600	1300	1650	2×4"
4SRLCR-120AR	2600	1370	1650	2×5"
4SRLCR-140AR	3650	1370	1650	2×5"
4SRLCR-160AR	3650	1370	1650	2×5"
4SRLCR-200AR	4700	1500	1850	2×6"
4SRLCR-240AR	4700	1500	1900	2×6"

NOTE

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



Dimensions (Cont.)



Screw Compressor (R22 , R407C)

Model	L	W	H	Evap. Connections
1SRLCS-50AR	2500	1100	1350	2×3"
1SRLCS-60AR	2500	1100	1350	2×3"
1SRLCS-70AR	2500	1150	1350	2×4"
1SRLCS-80AR	2500	1150	1400	2×4"
1SRLCS-90AR	2500	1150	1450	2×4"
1SRLCS-110AR	2600	1270	1650	2×5"
1SRLCS-125AR	2600	1270	1650	2×5"
1SRLCS-140AR	3600	1270	1700	2×5"
1SRLCS-160AR	3600	1270	1700	2×5"
1SRLCS-180AR	3600	1270	1700	2×6"
1SRLCS-210AR	3650	1300	1800	2×6"

Screw Compressor (R134a)

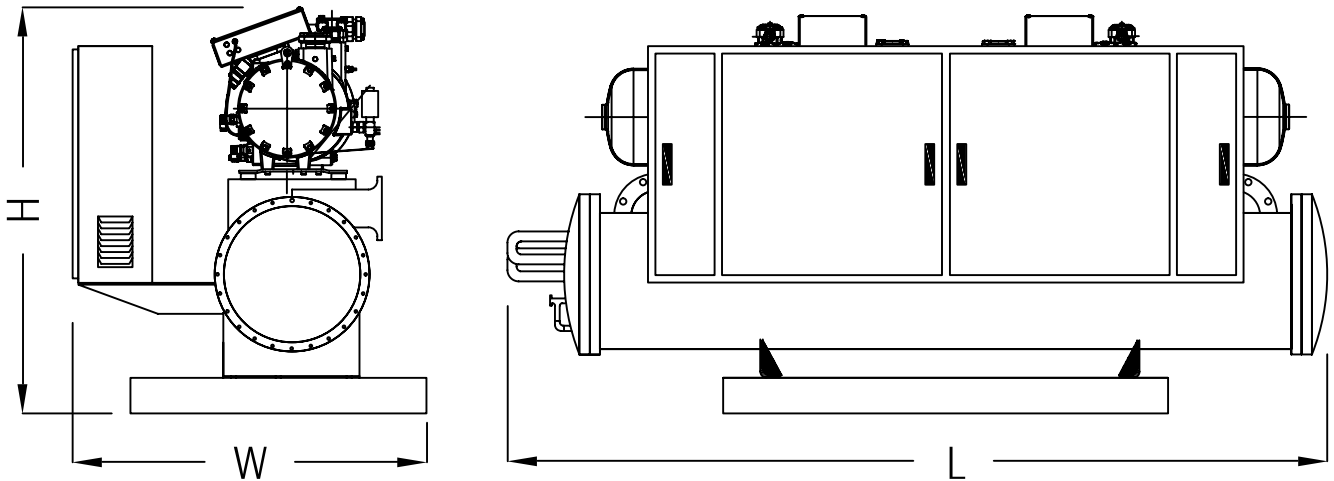
Model	L	W	H	Evap. Connections
1SRLCS-50AR	2500	1150	1350	2×3"
1SRLCS-60AR	2500	1150	1350	2×3"
1SRLCS-70AR	2500	1150	1350	2×4"
1SRLCS-80AR	2500	1270	1550	2×4"
1SRLCS-90AR	2500	1270	1600	2×4"
1SRLCS-110AR	2600	1270	1650	2×5"
1SRLCS-125AR	2600	1270	1650	2×5"
1SRLCS-140AR	3600	1270	1700	2×5"
1SRLCS-160AR	3600	1350	1700	2×5"
1SRLCS-180AR	3600	1350	1700	2×6"
1SRLCS-210AR	3650	1400	1800	2×6"

NOTE

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



Dimensions (Cont.)



Screw Compressor (R22 , R407C)

Model	L	W	H	Evap. Connections
2SRLCS-100AR	2600	1250	1450	2×4"
2SRLCS-120AR	2600	1250	1450	2×5"
2SRLCS-140AR	3600	1300	1450	2×5"
2SRLCS-160AR	3600	1300	1500	2×5"
2SRLCS-180AR	3600	1300	1550	2×6"
2SRLCS-220AR	4650	1450	1700	2×6"
2SRLCS-250AR	4650	1450	1700	2×6"
2SRLCS-280AR	4650	1450	1700	2×6"

Screw Compressor (R134a)

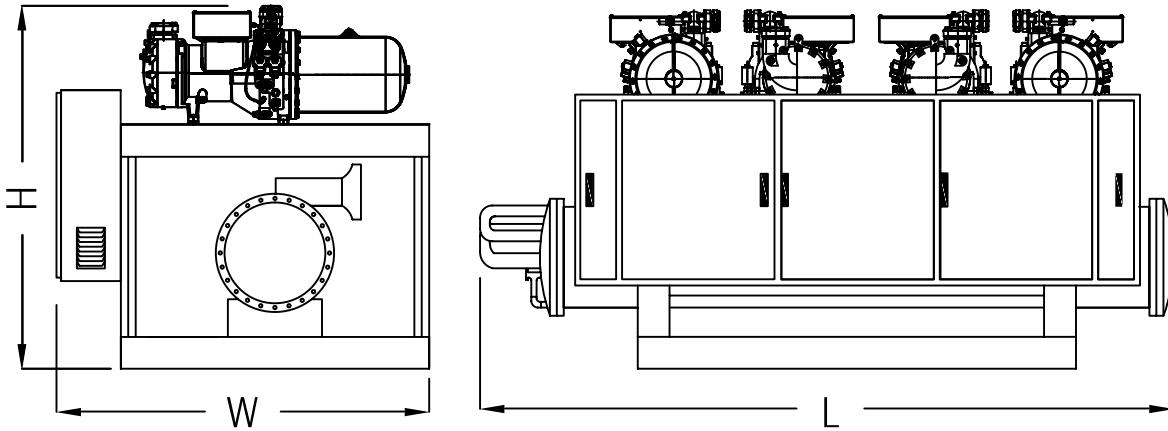
Model	L	W	H	Evap. Connections
2SRLCS-100AR	2600	1300	1450	2×4"
2SRLCS-120AR	2600	1300	1450	2×5"
2SRLCS-140AR	3600	1300	1450	2×5"
2SRLCS-160AR	3600	1450	1600	2×5"
2SRLCS-180AR	3600	1450	1700	2×6"
2SRLCS-220AR	4650	1450	1700	2×6"
2SRLCS-250AR	4650	1450	1700	2×6"
2SRLCS-280AR	4650	1450	1700	2×6"

NOTE

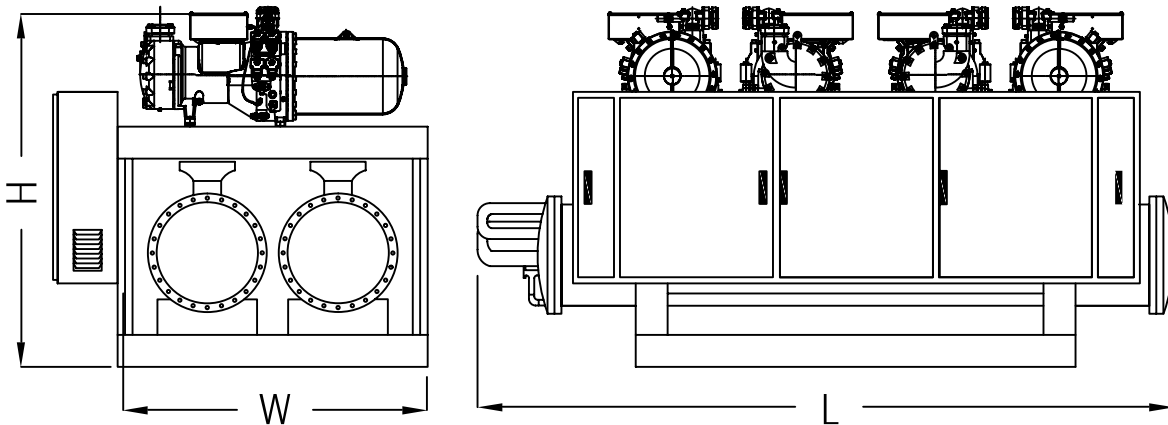
- All dimensions are in millimeter.
- The above data is subject to change without notice.



Dimensions (Cont.)



4SRLCS-200AR ~ 4SRLCS-240AR



4SRLCS-320AR & 4SRLCS-360AR

Screw Compressor (R22 , R407C)

Model	L	W	H	Evap. Connections
4SRLCS-200AR	4700	1420	1850	2×6"
4SRLCS-240AR	4700	1420	1850	2×6"
4SRLCS-280AR	4700	1670	1950	2×6"
4SRLCS-320AR	3700	1820	1900	4×5"
4SRLCS-360AR	3700	2120	1900	4×6"

Screw Compressor (R134a)

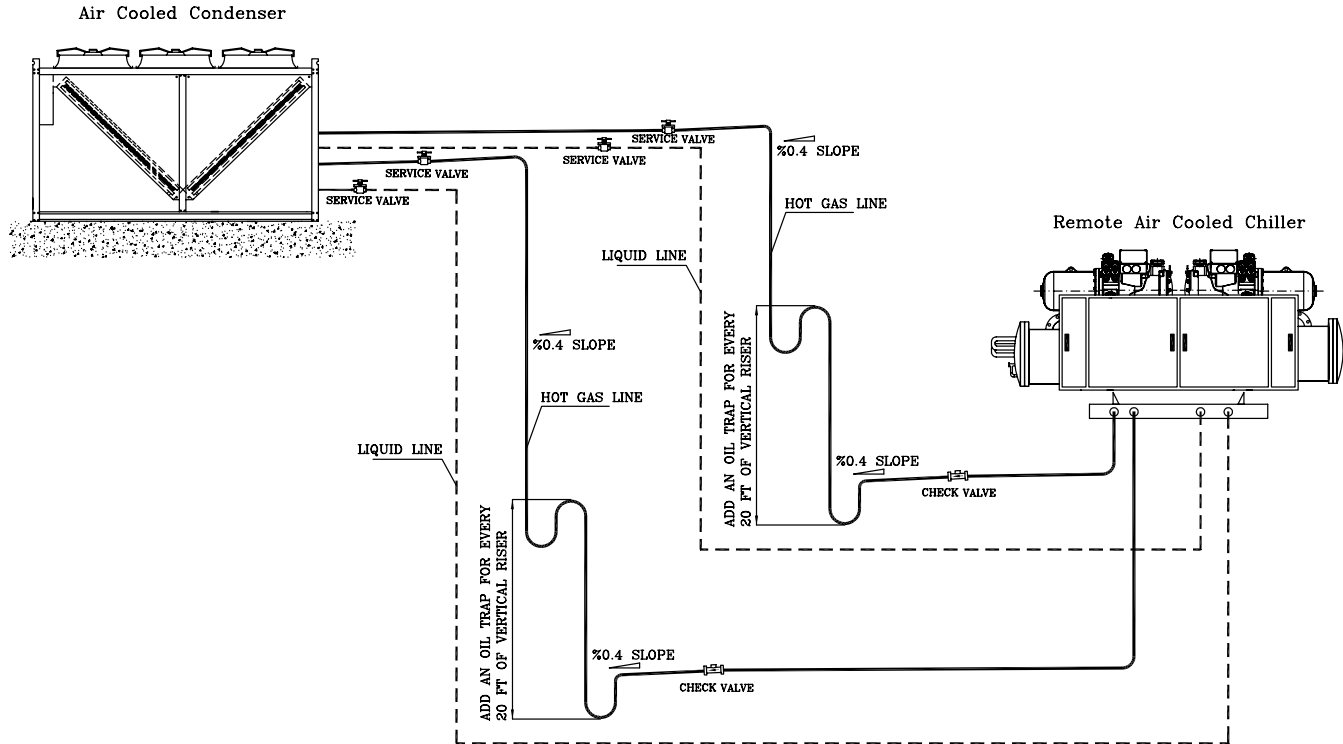
Model	L	W	H	Evap. Connections
4SRLCS-200AR	4700	1670	1850	2×6"
4SRLCS-240AR	4700	1670	1900	2×6"
4SRLCS-280AR	4700	1670	1950	2×6"
4SRLCS-320AR	3700	1970	2200	4×5"
4SRLCS-360AR	3700	2120	2200	4×6"

NOTE

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

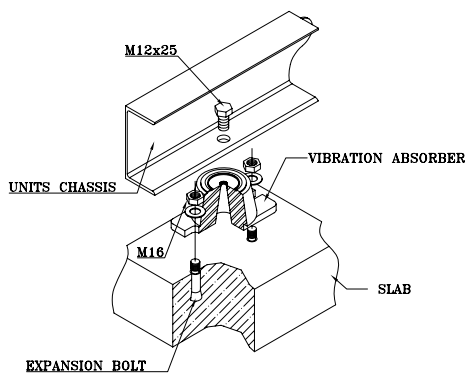
Recommended Piping Diagram

- Following points should be considered for refrigerant piping between remote type air-cooled chiller and air-cooled condenser:
- 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 a condenser is located above the compressor, an inverted trap or check valve should be installed at the condenser inlet to prevent liquid refrigerant from flowing backwards into the compressor during off cycles. In addition, Intermediate trap should be installed every 20 feet of riser in discharge line.
 - 3- For proper oil return back to compressor, install air-cooled condenser a minimum of 3 feet above the compressor.

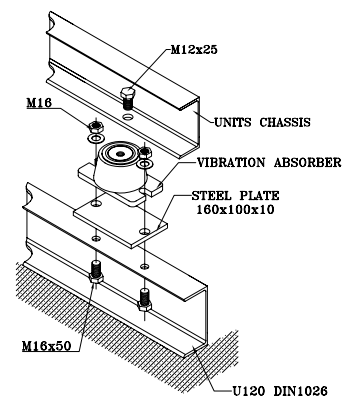


Installation Recommendation

- 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:



ARMOURED CEMENT FOUNDATION

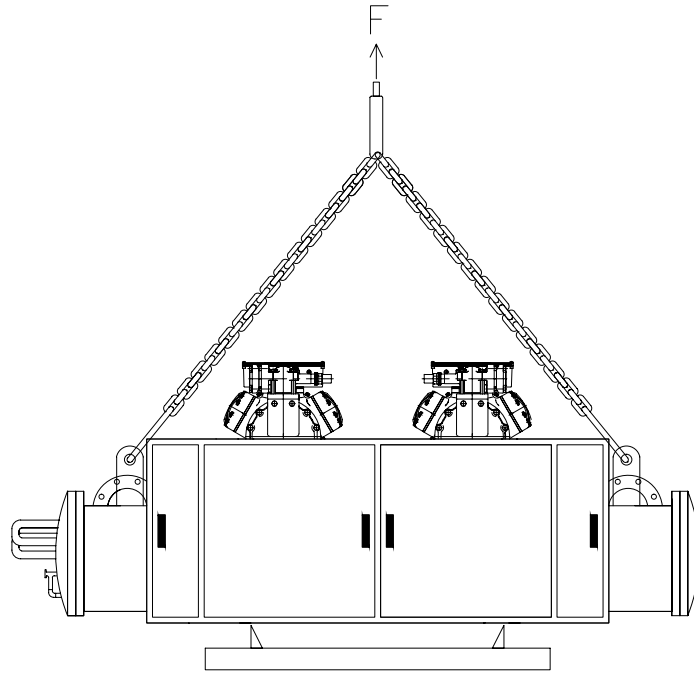


STEEL FRAME FOUNDATION

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 and the unit should be maintained.



Recommended Service Area

