



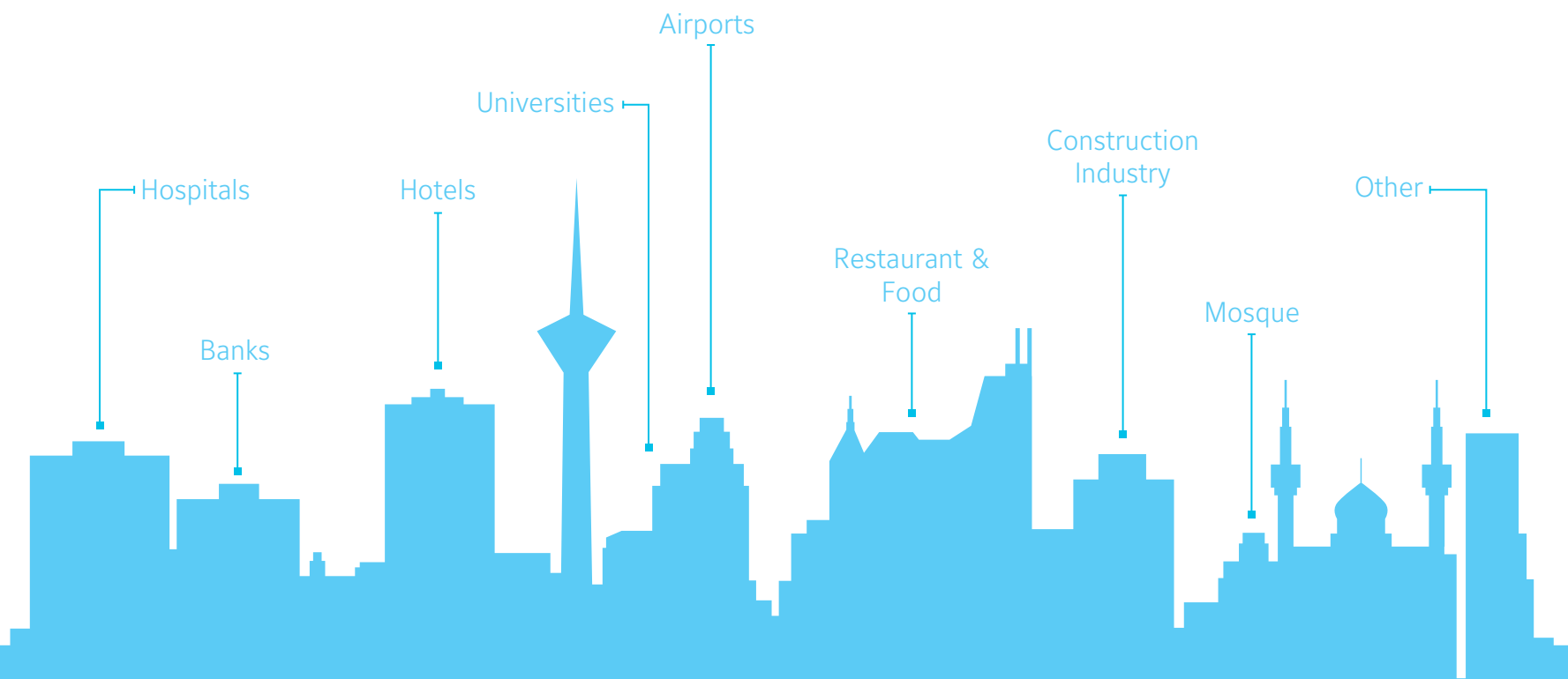
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WATER-COOLED CHILLER

Saran

Life's Pleasant Breeze



AIR CONDITIONING MFG.GROUP

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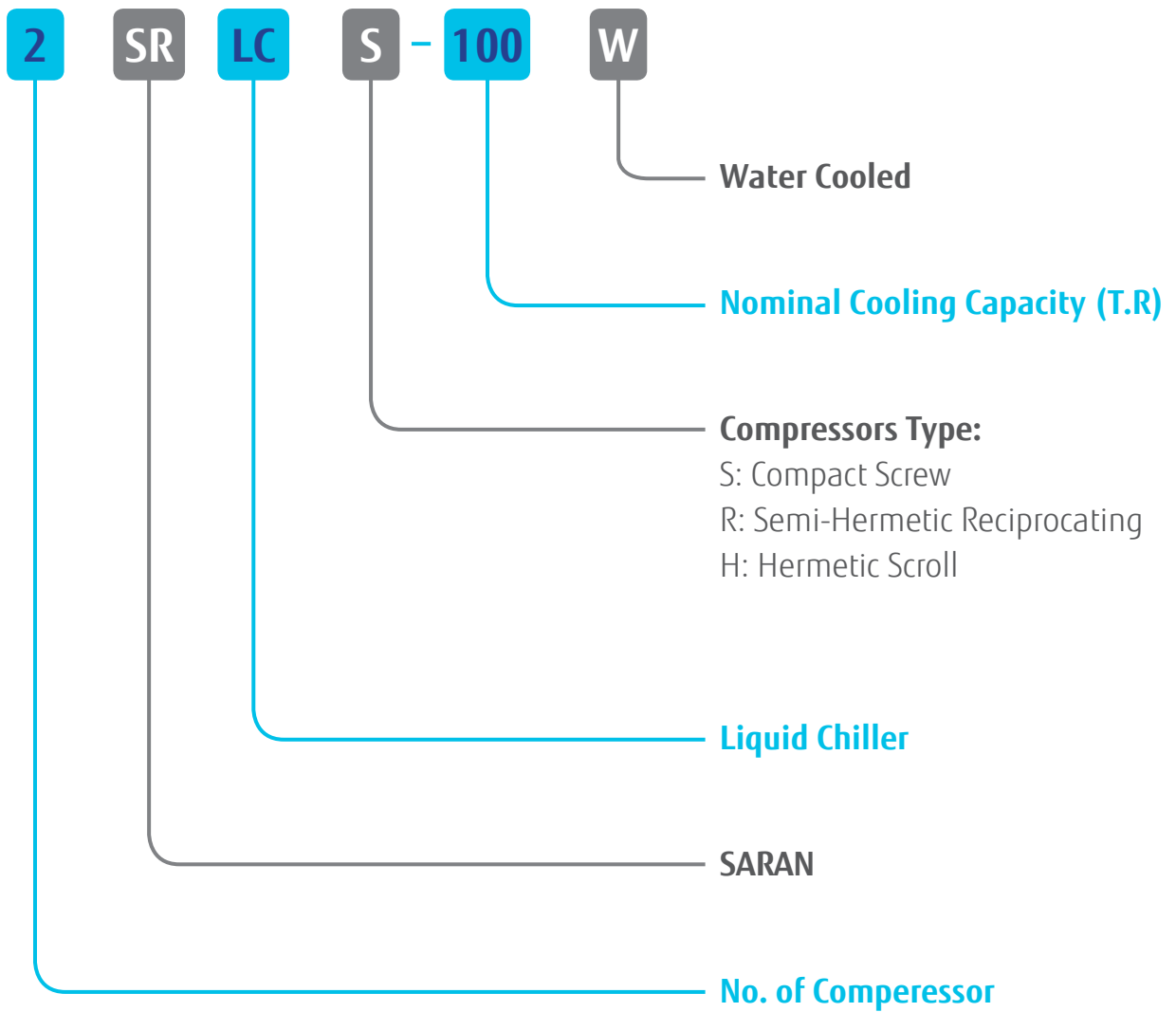


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NOMENCLATURE





Introduction

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

Saran water-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 560 TR please send your inquiry to Saran MFG group). All components of Saran water-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 water-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 achieved 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 evaporator to achieve much more compact and efficient units.

Condenser

The condenser is a cleanable thru-tube type with steel shell, copper tubes, removable water heads, and includes integral sub cooling. The shell will be constructed and tested in accordance with section VII of the ASME pressure-vessel code. The condenser is equipped with relief valves and sized sufficiently to hold the total refrigerant charge on pump down operation.

Refrigerant

Saran water-cooled chillers can be design to operate with R-22, R-407C and R-134a refrigerants, in one to four independent refrigerant circuits.

Safety Protection

For more efficiency and safe operation of the units, Saran water-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 water-cooled chiller models presented in the "Performance Data" tables; cover the most frequently encountered leaving water temperatures.

The water-cooled chillers are rated over a range of evaporator leaving water temperatures of 42°F to 46°F and condenser leaving water temperatures of 85°F to 105°F.

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

- 1- Design system load (Btu/h)
- 2- Design evaporator leaving water temperature (°F)
- 3- Design evaporator water range (°F)
- 4- Design condenser leaving water temperature (°F)
- 5- Design condenser water range (°F)
- 6- Evaporator fouling factor (h.ft².°F /Btu)
- 7- Condenser fouling factor (h.ft².°F /Btu)

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:

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

Also, the amount of water to be circulate in the condenser can be determine with following formula:

$$\text{Condenser Water Flow (GPM)} = \frac{24 \times \text{Condenser Total Heat Rejection (TR)}}{\text{Condenser Water Range (°F)}}$$

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

Table 1: Chilled Water Range Correction Factors

	Water Range (°F)	Capacity Multiplier	Power Multiplier
Evaporator	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
Condenser	6	1.003	0.997
	8	1.002	0.999
	10	1.000	1
	12	0.984	1.012
	14	0.976	1.029
	16	0.968	1.052

Fouling factor

The cooling capacity of the water-cooled chillers in this catalogue permit a fouling factor of 0.0001 h.ft².°F/Btu for evaporator and 0.00025 h.ft².°F/Btu for condenser (ARI Standard 550/590-98). 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
Evaporator	0.00010	1.000	1.000
	0.00025	0.992	0.997
	0.00050	0.978	0.990
	0.00075	0.965	0.984
	0.00100	0.951	0.978
Condenser	0.00025	1.000	1.000
	0.00050	0.987	1.021
	0.00075	0.980	1.038
	0.00100	0.965	1.064
	0.00200	0.910	1.092

Condenser Head Pressure Control

For proper operation of a water-cooled chiller, it is necessary to maintain a condenser leaving water temperature upper than 85°F. As a result, a method of condenser head pressure control, including cooling tower fan controlling via thermostat or condenser water flow control via a water-regulating valve shall be employed in cases where the condenser leaving water temperature can drop to lower than 85°F.

Standard condition

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

- Evaporator and condenser water range: 10°F
- Condenser leaving water temperature: 95°F
- Evaporator fouling factor: 0.0001 h.ft².°F/Btu
- Condenser fouling factor: 0.00025 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 C4 x C5 x QE;

Actual compressor power input (kW) = C1 x C2 x C3 x C4 x C5 x WC;

Actual condenser total heat rejection (MBH) = C5 x QC;

- QE: Cooling capacity in performance data tables (Table - 4,6,8)
- WC: Compressor power input in performance data tables (Table - 4,6,8)
- THR: Condenser total heat rejection in performance data tables (Table - 4,6,8)
- C1: Evaporator water range correction factor (Table-1)
- C2: Condenser water range correction factor (Table-1)
- C3: Evaporator fouling factor correction factor (Table-2)
- C4: Condenser fouling factor correction factor (Table-2)
- C5: Condenser leaving water temperature correction factor (Table-5,7,9)



Selection Example

Given:

Chilled Water Flow Rate = 450 GPM
 Evaporator and condenser water range = 10°F
 Evaporator leaving water temperature = 44°F
 Condenser leaving water temperature = 105°F
 Evaporator fouling factor = 0.0001 h.ft².°F/Btu
 Condenser fouling factor = 0.00025 h.ft².°F/Btu
 Refrigerant = R22
 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 187.5 TR (2250 MBH);

Step 2: Water-cooled chiller model selection

By referring to the performance data table of water-cooled chiller (Screw – R22), we can see cooling capacity of 2SRLCS-250W in evaporator / condenser leaving water temperature of 44°F / 95°F is 2425MBH. 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: Calculating selected unit real capacity in the given condition

By referring to correction factor table of water-cooled chiller (Screw – R22), we can see performance correction factor of selected unit for cooling capacity, compressor power input and condenser total heat rejection in condenser leaving water temperature of 105°F is 0.9289, 1.1008 and 0.9586, respectively. So we have

Cooling capacity = 2425 * 0.9289 = 2252.6 MBH
 Compressor power input = 164.5 * 1.1008 = 181.1 kW
 Condenser total heat rejection = 2930 * 0.9586 = 2808.7 MBH

So cooling capacity of 2SRLCS-250W satisfy our requirements and our selection in previous step is correct.

Step 4: Condenser Water Flow Calculation

To calculate the condenser water flow rate, we can use the following formula:

$$\text{Condenser Water Flow (GPM)} = \frac{24 \times \text{Condenser Total Heat Rejection (TR)}}{\text{Condenser Water Range (°F)}}$$

So in this problem, the amount of water to be circulate in the condenser is 561.7 GPM.

Step 5: Evaporator and Condenser Pressure Drop

To estimate pressure drop of selected water-cooled chiller, by referring to 2SRLCS-250W pressure drop graph, we can see evaporator and condenser pressure drop of selected unit is 32.8 and 6.1 foot of water respectively.



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-5W	49	3.3	60	50	3.3	61	51	3.3	62	52	3.3	63	53	3.3	64
1SRLCH-7.5W	79	5.0	95	80	5.0	97	82	5.0	98	84	5.0	100	85	5.0	102
1SRLCH-10W	105	6.6	126	107	6.6	128	109	6.6	130	111	6.6	132	113	6.6	134
1SRLCH-15W	152	10.0	186	155	10.0	189	158	10.0	192	162	10.0	196	165	10.0	199
1SRLCH-20W	206	13.9	253	210	13.9	257	214	13.9	262	219	14.0	266	223	14.0	271
1SRLCH-25W	264	17.4	323	269	17.5	329	275	17.5	335	281	17.6	341	286	17.7	347
1SRLCH-30W	317	21.0	389	233	21.0	395	330	21.1	402	336	21.1	408	343	21.2	415
2SRLCH-10W	98	6.6	119	100	6.6	121	102	6.6	124	104	6.6	126	106	6.6	128
2SRLCH-15W	157	10.0	190	161	10.0	193	164	10.0	196	167	10.0	200	171	10.0	203
2SRLCH-20W	209	13.1	252	213	13.2	256	217	13.2	260	221	13.2	264	226	13.2	268
2SRLCH-30W	304	20.0	372	310	20.0	379	317	20.0	385	323	20.0	391	329	20.1	398
2SRLCH-40W	412	27.7	506	420	27.8	515	428	27.8	523	437	27.9	532	446	28.0	541
2SRLCH-50W	528	34.9	647	539	35.0	658	550	35.1	670	561	35.2	681	573	35.3	693
2SRLCH-60W	635	41.9	778	465	42.0	790	660	42.1	804	673	42.2	817	686	42.3	830
3SRLCH-60W	618	41.6	760	630	41.7	772	643	41.8	785	656	41.9	798	668	41.9	812
3SRLCH-75W	792	52.3	970	808	52.4	987	825	52.6	1004	842	52.8	1022	859	53.0	1040
3SRLCH-90W	952	62.9	1166	698	63.0	1186	990	63.2	1205	1009	63.4	1225	1029	63.5	1246
4SRLCH-60W	608	39.9	744	620	40.0	757	633	40.0	770	646	40.1	783	659	40.1	796
4SRLCH-80W	824	55.4	1013	840	55.6	1030	857	55.7	1047	874	55.8	1064	891	55.9	1082
4SRLCH-100W	1056	69.7	1293	1078	69.9	1316	1100	70.2	1339	1122	70.4	1362	1145	70.6	1386
4SRLCH-120W	1269	83.8	1555	930	84.0	1581	1320	84.2	1607	1346	84.5	1634	1372	84.7	1661

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 7).
- 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 prior notice.



Performance Data (Cont.)

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

Models	Condenser Leaving Water Temperature														
	85°F			90°F			95°F			100°F			105°F		
	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
1SRLCH-5W	1.0524	0.8945	1.0253	1.0262	0.9473	1.0126	1.0000	1.0000	1.0000	0.9716	1.0591	0.9866	0.9432	1.1182	0.9731
1SRLCH-7.5W	1.0496	0.8920	1.0236	1.0248	0.9460	1.0118	1.0000	1.0000	1.0000	0.9734	1.0620	0.9880	0.9468	1.1240	0.9760
1SRLCH-10W	1.0497	0.8874	1.0230	1.0249	0.9437	1.0115	1.0000	1.0000	1.0000	0.9745	1.0642	0.9904	0.9490	1.1284	0.9808
1SRLCH-15W	1.0476	0.8933	1.0201	1.0238	0.9466	1.0101	1.0000	1.0000	1.0000	0.9755	1.0591	0.9903	0.9510	1.1181	0.9806
1SRLCH-20W	1.0487	0.9030	1.0221	1.0244	0.9515	1.0111	1.0000	1.0000	1.0000	0.9741	1.0536	0.9886	0.9483	1.1072	0.9772
1SRLCH-25W	1.0511	0.9104	1.0260	1.0256	0.9552	1.0130	1.0000	1.0000	1.0000	0.9729	1.0510	0.9869	0.9457	1.1019	0.9739
1SRLCH-30W	1.0473	0.9087	1.0224	1.0236	0.9543	1.0112	1.0000	1.0000	1.0000	0.9749	1.0517	0.9886	0.9497	1.1033	0.9772
2SRLCH-10W	1.0524	0.8945	1.0253	1.0262	0.9473	1.0126	1.0000	1.0000	1.0000	0.9716	1.0591	0.9866	0.9432	1.1182	0.9731
2SRLCH-15W	1.0496	0.8920	1.0236	1.0248	0.9460	1.0118	1.0000	1.0000	1.0000	0.9734	1.0620	0.9880	0.9468	1.1240	0.9760
2SRLCH-20W	1.0497	0.8874	1.0230	1.0249	0.9437	1.0115	1.0000	1.0000	1.0000	0.9745	1.0642	0.9904	0.9490	1.1284	0.9808
2SRLCH-30W	1.0476	0.8933	1.0201	1.0238	0.9466	1.0101	1.0000	1.0000	1.0000	0.9755	1.0591	0.9903	0.9510	1.1181	0.9806
2SRLCH-40W	1.0487	0.9030	1.0221	1.0244	0.9515	1.0111	1.0000	1.0000	1.0000	0.9741	1.0536	0.9886	0.9483	1.1072	0.9772
2SRLCH-50W	1.0511	0.9104	1.0260	1.0256	0.9552	1.0130	1.0000	1.0000	1.0000	0.9729	1.0510	0.9869	0.9457	1.1019	0.9739
2SRLCH-60W	1.0473	0.9087	1.0224	1.0236	0.9543	1.0112	1.0000	1.0000	1.0000	0.9749	1.0517	0.9886	0.9497	1.1033	0.9772
3SRLCH-60W	1.0487	0.9030	1.0221	1.0244	0.9515	1.0111	1.0000	1.0000	1.0000	0.9741	1.0536	0.9886	0.9483	1.1072	0.9772
3SRLCH-75W	1.0511	0.9104	1.0260	1.0256	0.9552	1.0130	1.0000	1.0000	1.0000	0.9729	1.0510	0.9869	0.9457	1.1019	0.9739
3SRLCH-90W	1.0473	0.9087	1.0224	1.0236	0.9543	1.0112	1.0000	1.0000	1.0000	0.9749	1.0517	0.9886	0.9497	1.1033	0.9772
4SRLCH-60W	1.0476	0.8933	1.0201	1.0238	0.9466	1.0101	1.0000	1.0000	1.0000	0.9755	1.0591	0.9903	0.9510	1.1181	0.9806
4SRLCH-80W	1.0487	0.9030	1.0221	1.0244	0.9515	1.0111	1.0000	1.0000	1.0000	0.9741	1.0536	0.9886	0.9483	1.1072	0.9772
4SRLCH-100W	1.0511	0.9104	1.0260	1.0256	0.9552	1.0130	1.0000	1.0000	1.0000	0.9729	1.0510	0.9869	0.9457	1.1019	0.9739
4SRLCH-120W	1.0473	0.9087	1.0224	1.0236	0.9543	1.0112	1.0000	1.0000	1.0000	0.9749	1.0517	0.9886	0.9497	1.1033	0.9772

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 prior 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-5W	48	3.2	59	49	3.2	60	50	3.2	61	51	3.2	62	53	3.2	63
1SRLCH-7.5W	78	5.0	95	80	5.0	96	82	5.0	98	83	5.0	100	85	5.0	102
1SRLCH-10W	103	6.5	124	105	6.5	126	107	6.5	128	110	6.5	131	112	6.5	133
1SRLCH-15W	145	10.2	180	148	10.2	183	151	10.2	186	155	10.2	189	158	10.2	193
1SRLCH-20W	201	13.8	248	205	13.8	252	210	13.8	257	214	13.8	262	219	13.9	266
1SRLCH-25W	245	16.6	302	250	16.6	307	255	16.7	312	261	16.7	318	266	16.7	323
1SRLCH-30W	304	20.6	374	311	20.6	381	317	20.6	388	324	20.7	394	331	20.7	401
2SRLCH-10W	97	6.4	118	99	6.4	120	101	6.4	122	103	6.4	124	105	6.4	126
2SRLCH-15W	157	10.1	189	160	10.1	193	163	10.1	196	167	10.1	199	170	10.1	203
2SRLCH-20W	205	13.0	247	210	13.0	252	214	13.0	256	219	13.0	261	223	13.0	265
2SRLCH-30W	290	20.3	359	296	20.3	365	302	20.3	372	309	20.4	379	316	20.4	385
2SRLCH-40W	402	27.5	496	411	27.6	505	420	27.6	514	429	27.7	523	438	27.7	533
2SRLCH-50W	490	33.2	603	500	33.3	614	511	33.3	624	521	33.4	635	532	33.5	647
2SRLCH-60W	608	41.1	749	621	41.2	762	634	41.3	775	648	41.3	789	661	41.4	802
3SRLCH-60W	603	41.3	744	616	41.4	757	629	41.4	771	643	41.5	785	657	41.6	799
3SRLCH-75W	734	49.8	905	750	49.9	920	766	50.0	937	782	50.1	953	799	50.2	970
3SRLCH-90W	912	61.7	1123	932	61.8	1143	951	61.9	1163	971	62.0	1183	992	62.1	1204
4SRLCH-60W	579	40.6	718	592	40.7	731	605	40.7	744	618	40.7	757	632	40.7	770
4SRLCH-80W	804	55.1	992	821	55.2	1010	839	55.2	1028	858	55.3	1046	876	55.4	1066
4SRLCH-100W	979	66.4	1206	1000	66.6	1227	1021	66.7	1249	1043	66.8	1271	1065	66.9	1293
4SRLCH-120W	1216	82.3	1497	1242	82.4	1524	1268	82.6	1550	1295	82.7	1577	1322	82.8	1605

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 7).
- 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 prior notice.



Performance Data (Cont.)

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

Models	Condenser Leaving Water Temperature														
	85°F			90°F			95°F			100°F			105°F		
	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
1SRLCH-5W	1.0452	0.8773	1.0164	1.0226	0.9386	1.0082	1.0000	1.0000	1.0000	0.9738	1.0717	0.9906	0.9477	1.1433	0.9813
1SRLCH-7.5W	1.0490	0.8827	1.0214	1.0245	0.9414	1.0107	1.0000	1.0000	1.0000	0.9713	1.0682	0.9875	0.9427	1.1364	0.9749
1SRLCH-10W	1.0523	0.8891	1.0265	1.0261	0.9446	1.0133	1.0000	1.0000	1.0000	0.9700	1.0662	0.9859	0.9400	1.1324	0.9719
1SRLCH-15W	1.0529	0.8891	1.0222	1.0264	0.9446	1.0111	1.0000	1.0000	1.0000	0.9710	1.0637	0.9883	0.9421	1.1274	0.9767
1SRLCH-20W	1.0583	0.8953	1.0282	1.0292	0.9476	1.0141	1.0000	1.0000	1.0000	0.9693	1.0597	0.9858	0.9386	1.1195	0.9716
1SRLCH-25W	1.0468	0.8789	1.0161	1.0234	0.9395	1.0081	1.0000	1.0000	1.0000	0.9732	1.0652	0.9899	0.9464	1.1304	0.9798
1SRLCH-30W	1.0539	0.8968	1.0254	1.0270	0.9484	1.0127	1.0000	1.0000	1.0000	0.9710	1.0592	0.9870	0.9420	1.1184	0.9741
2SRLCH-10W	1.0452	0.8773	1.0164	1.0226	0.9386	1.0082	1.0000	1.0000	1.0000	0.9738	1.0717	0.9906	0.9477	1.1433	0.9813
2SRLCH-15W	1.0490	0.8827	1.0214	1.0245	0.9414	1.0107	1.0000	1.0000	1.0000	0.9713	1.0682	0.9875	0.9427	1.1364	0.9749
2SRLCH-20W	1.0523	0.8891	1.0265	1.0261	0.9446	1.0133	1.0000	1.0000	1.0000	0.9700	1.0662	0.9859	0.9400	1.1324	0.9719
2SRLCH-30W	1.0529	0.8891	1.0222	1.0264	0.9446	1.0111	1.0000	1.0000	1.0000	0.9710	1.0637	0.9883	0.9421	1.1274	0.9767
2SRLCH-40W	1.0583	0.8953	1.0282	1.0292	0.9476	1.0141	1.0000	1.0000	1.0000	0.9693	1.0597	0.9858	0.9386	1.1195	0.9716
2SRLCH-50W	1.0468	0.8789	1.0161	1.0234	0.9395	1.0081	1.0000	1.0000	1.0000	0.9732	1.0652	0.9899	0.9464	1.1304	0.9798
2SRLCH-60W	1.0539	0.8968	1.0254	1.0270	0.9484	1.0127	1.0000	1.0000	1.0000	0.9710	1.0592	0.9870	0.9420	1.1184	0.9741
3SRLCH-60W	1.0583	0.8953	1.0282	1.0292	0.9476	1.0141	1.0000	1.0000	1.0000	0.9693	1.0597	0.9858	0.9386	1.1195	0.9716
3SRLCH-75W	1.0468	0.8789	1.0161	1.0234	0.9395	1.0081	1.0000	1.0000	1.0000	0.9732	1.0652	0.9899	0.9464	1.1304	0.9798
3SRLCH-90W	1.0539	0.8968	1.0254	1.0270	0.9484	1.0127	1.0000	1.0000	1.0000	0.9710	1.0592	0.9870	0.9420	1.1184	0.9741
4SRLCH-60W	1.0529	0.8891	1.0222	1.0264	0.9446	1.0111	1.0000	1.0000	1.0000	0.9710	1.0637	0.9883	0.9421	1.1274	0.9767
4SRLCH-80W	1.0583	0.8953	1.0282	1.0292	0.9476	1.0141	1.0000	1.0000	1.0000	0.9693	1.0597	0.9858	0.9386	1.1195	0.9716
4SRLCH-100W	1.0468	0.8789	1.0161	1.0234	0.9395	1.0081	1.0000	1.0000	1.0000	0.9732	1.0652	0.9899	0.9464	1.1304	0.9798
4SRLCH-120W	1.0539	0.8968	1.0254	1.0270	0.9484	1.0127	1.0000	1.0000	1.0000	0.9710	1.0592	0.9870	0.9420	1.1184	0.9741

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 prior 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-5W	33	2.2	41	34	2.2	41	35	2.2	42	36	2.2	43	36	2.2	44
1SRLCH-7.5W	51	3.5	63	53	3.5	64	54	3.5	65	55	3.5	66	56	3.5	67
1SRLCH-10W	69	4.5	83	70	4.5	85	72	4.5	86	73	4.5	88	75	4.5	90
1SRLCH-15W	103	7.1	126	105	7.1	128	108	7.1	131	110	7.1	133	113	7.1	134
1SRLCH-20W	134	9.7	167	137	9.7	170	141	9.7	174	144	9.7	177	147	9.7	180
1SRLCH-25W	168	12.0	208	171	12.0	212	175	12.0	216	179	12.0	220	183	12.0	224
1SRLCH-30W	210	14.4	259	215	14.4	264	220	14.5	269	225	14.5	274	230	14.5	279
2SRLCH-10W	67	4.4	81	68	4.4	82	70	4.4	84	71	4.5	86	73	4.5	87
2SRLCH-15W	103	6.9	125	105	6.9	127	107	6.9	130	110	6.9	132	112	6.9	135
2SRLCH-20W	137	9.0	166	140	9.0	170	144	9.0	173	147	9.0	176	150	9.0	179
2SRLCH-30W	206	14.2	252	210	14.2	256	215	14.2	261	220	14.2	266	225	14.3	267
2SRLCH-40W	269	19.3	335	275	19.4	341	281	19.4	347	288	19.4	354	294	19.4	361
2SRLCH-50W	335	23.9	417	343	23.9	424	351	24.0	432	358	24.0	440	367	24.0	448
2SRLCH-60W	421	28.8	518	430	28.9	529	440	28.9	538	449	29.0	548	459	29.0	558
3SRLCH-60W	403	29.0	502	412	29.0	511	422	29.1	521	432	29.1	531	442	29.1	541
3SRLCH-75W	503	35.9	625	514	35.9	637	526	35.9	648	538	36.0	661	550	36.0	673
3SRLCH-90W	631	43.3	778	645	43.3	793	659	43.4	807	674	43.4	822	689	43.5	837
4SRLCH-60W	412	28.4	504	420	28.4	512	430	28.4	522	440	28.5	532	450	28.5	534
4SRLCH-80W	537	38.7	669	550	38.7	682	562	38.8	695	576	38.8	708	589	38.8	722
4SRLCH-100W	670	47.8	833	686	47.8	849	701	47.9	864	717	48.0	881	733	48.0	897
4SRLCH-120W	841	57.7	1037	860	57.8	1057	879	57.8	1076	899	57.9	1096	918	58.0	1116

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 7).
- 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 prior notice.



Performance Data (Cont.)

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

Model	Condenser Leaving Water Temperature														
	85°F			90°F			95°F			100°F			105°F		
	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
1SRLCH-5W	1.0551	0.8885	1.0271	1.0276	0.9442	1.0136	1.0000	1.0000	1.0000	0.9721	1.0612	0.9874	0.9443	1.1223	0.9748
1SRLCH-7.5W	1.0533	0.8965	1.0268	1.0266	0.9483	1.0134	1.0000	1.0000	1.0000	0.9683	1.0621	0.9846	0.9367	1.1243	0.9692
1SRLCH-10W	1.0529	0.8972	1.0268	1.0265	0.9486	1.0134	1.0000	1.0000	1.0000	0.9720	1.0585	0.9868	0.9440	1.1171	0.9736
1SRLCH-15W	1.0512	0.9044	1.0291	1.0256	0.9522	1.0145	1.0000	1.0000	1.0000	0.9705	1.0572	0.9873	0.9411	1.1144	0.9746
1SRLCH-20W	1.0590	0.9003	1.0286	1.0295	0.9502	1.0143	1.0000	1.0000	1.0000	0.9708	1.0551	0.9867	0.9416	1.1102	0.9734
1SRLCH-25W	1.0554	0.8933	1.0249	1.0277	0.9467	1.0124	1.0000	1.0000	1.0000	0.9713	1.0573	0.9876	0.9425	1.1145	0.9752
1SRLCH-30W	1.0542	0.9047	1.0269	1.0271	0.9524	1.0134	1.0000	1.0000	1.0000	0.9719	1.0536	0.9870	0.9439	1.1072	0.9741
2SRLCH-10W	1.0551	0.8885	1.0271	1.0276	0.9442	1.0136	1.0000	1.0000	1.0000	0.9721	1.0612	0.9874	0.9443	1.1223	0.9748
2SRLCH-15W	1.0533	0.8965	1.0268	1.0266	0.9483	1.0134	1.0000	1.0000	1.0000	0.9683	1.0621	0.9846	0.9367	1.1243	0.9692
2SRLCH-20W	1.0529	0.8972	1.0268	1.0265	0.9486	1.0134	1.0000	1.0000	1.0000	0.9720	1.0585	0.9868	0.9440	1.1171	0.9736
2SRLCH-30W	1.0512	0.9044	1.0291	1.0256	0.9522	1.0145	1.0000	1.0000	1.0000	0.9705	1.0572	0.9873	0.9411	1.1144	0.9746
2SRLCH-40W	1.0590	0.9003	1.0286	1.0295	0.9502	1.0143	1.0000	1.0000	1.0000	0.9708	1.0551	0.9867	0.9416	1.1102	0.9734
2SRLCH-50W	1.0554	0.8933	1.0249	1.0277	0.9467	1.0124	1.0000	1.0000	1.0000	0.9713	1.0573	0.9876	0.9425	1.1145	0.9752
2SRLCH-60W	1.0542	0.9047	1.0269	1.0271	0.9524	1.0134	1.0000	1.0000	1.0000	0.9719	1.0536	0.9870	0.9439	1.1072	0.9741
3SRLCH-60W	1.0590	0.9003	1.0286	1.0295	0.9502	1.0143	1.0000	1.0000	1.0000	0.9708	1.0551	0.9867	0.9416	1.1102	0.9734
3SRLCH-75W	1.0554	0.8933	1.0249	1.0277	0.9467	1.0124	1.0000	1.0000	1.0000	0.9713	1.0573	0.9876	0.9425	1.1145	0.9752
3SRLCH-90W	1.0542	0.9047	1.0269	1.0271	0.9524	1.0134	1.0000	1.0000	1.0000	0.9719	1.0536	0.9870	0.9439	1.1072	0.9741
4SRLCH-60W	1.0512	0.9044	1.0291	1.0256	0.9522	1.0145	1.0000	1.0000	1.0000	0.9705	1.0572	0.9873	0.9411	1.1144	0.9746
4SRLCH-80W	1.0590	0.9003	1.0286	1.0295	0.9502	1.0143	1.0000	1.0000	1.0000	0.9708	1.0551	0.9867	0.9416	1.1102	0.9734
4SRLCH-100W	1.0554	0.8933	1.0249	1.0277	0.9467	1.0124	1.0000	1.0000	1.0000	0.9713	1.0573	0.9876	0.9425	1.1145	0.9752
4SRLCH-120W	1.0542	0.9047	1.0269	1.0271	0.9524	1.0134	1.0000	1.0000	1.0000	0.9719	1.0536	0.9870	0.9439	1.1072	0.9741

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 prior notice.

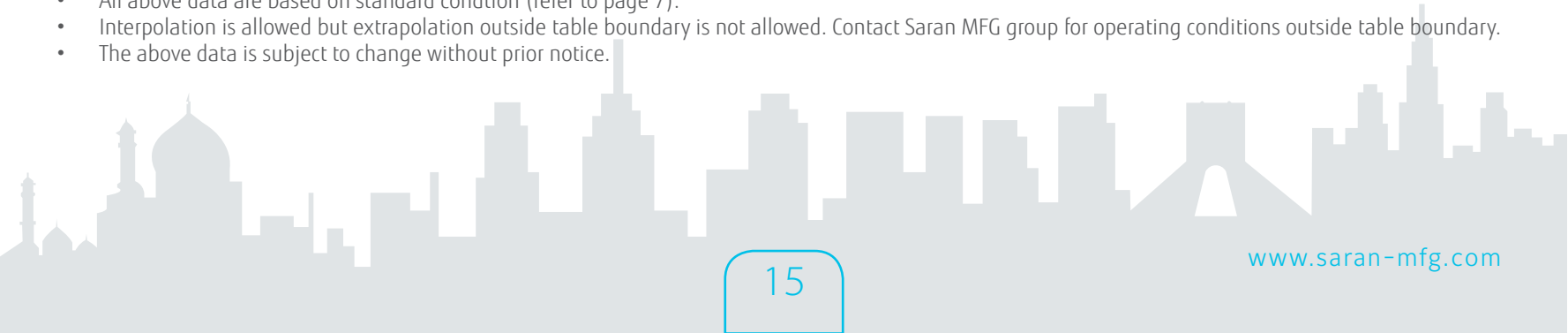
Performance Data (Cont.)

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-5W	55	3.9	67	56	3.9	68	57	3.9	70	58	3.9	71	59	3.9	72
1SRLCR-7.5W	83	5.9	101	84	5.9	103	86	5.9	105	88	5.9	107	90	5.9	109
1SRLCR-10W	110	7.4	134	113	7.5	137	115	7.5	140	118	7.5	142	120	7.6	145
1SRLCR-15W	153	10.4	187	156	10.4	190	160	10.5	194	163	10.5	197	167	10.6	201
1SRLCR-20W	180	12.1	219	184	12.2	223	188	12.2	227	191	12.3	231	196	12.3	236
1SRLCR-25W	238	16.2	291	243	16.3	296	249	16.4	302	254	16.4	307	259	16.5	313
1SRLCR-30W	276	18.6	336	282	18.7	342	287	18.8	348	294	18.8	355	300	18.9	361
1SRLCR-35W	358	24.5	437	365	24.6	445	373	24.7	453	381	24.8	461	389	24.9	469
1SRLCR-40W	410	28.0	501	419	28.1	510	428	28.3	520	437	28.4	529	446	28.5	538
1SRLCR-50W	493	34.0	603	504	34.1	614	514	34.2	625	525	34.3	637	536	34.5	648
1SRLCR-60W	577	41.7	712	589	41.9	725	601	42.1	737	613	42.2	749	625	42.4	762
2SRLCR-10W	109	7.8	135	112	7.8	137	114	7.8	139	116	7.9	142	119	7.9	144
2SRLCR-15W	165	11.7	203	169	11.7	207	172	11.8	210	176	11.8	214	179	11.8	218
2SRLCR-20W	221	14.9	269	226	14.9	274	230	15.0	279	235	15.1	284	240	15.1	289
2SRLCR-30W	306	20.8	374	313	20.9	381	320	21.0	388	326	21.1	395	333	21.1	402
2SRLCR-40W	359	24.3	438	367	24.4	446	375	24.5	454	383	24.6	463	391	24.7	471
2SRLCR-50W	477	32.4	582	487	32.6	592	497	32.7	603	508	32.8	614	518	32.9	625
2SRLCR-60W	551	37.3	672	563	37.4	684	575	37.6	697	587	37.7	709	599	37.8	722
2SRLCR-70W	715	49.0	874	730	49.2	890	746	49.4	906	761	49.6	922	777	49.7	939
2SRLCR-80W	821	56.1	1003	838	56.3	1021	856	56.5	1039	874	56.7	1058	892	56.9	1077
2SRLCR-100W	987	67.9	1207	1008	68.2	1229	1029	68.4	1251	1050	68.7	1273	1072	68.9	1296
2SRLCR-120W	1154	83.5	1425	1178	83.8	1449	1201	84.1	1474	1225	84.5	1499	1249	84.7	1524
3SRLCR-60W	539	36.4	657	551	36.6	669	563	36.7	682	574	36.9	694	587	37.0	707
3SRLCR-75W	715	48.7	873	730	48.9	889	746	49.1	905	761	49.2	921	777	49.4	938
3SRLCR-90W	827	55.9	1008	845	56.1	1027	862	56.3	1045	881	56.5	1064	899	56.7	1083
3SRLCR-105W	1073	73.5	1311	1095	73.8	1335	1119	74.1	1359	1142	74.4	1383	1166	74.6	1408
3SRLCR-120W	1231	84.1	1504	1257	84.4	1531	1284	84.8	1559	1311	85.1	1587	1339	85.4	1615
3SRLCR-150W	1480	101.9	1810	1511	102.3	1843	1543	102.7	1876	1576	103.0	1910	1608	103.4	1944
3SRLCR-180W	1731	125.2	2137	1766	125.7	2174	1802	126.2	2211	1838	126.7	2248	1874	127.1	2286
4SRLCR-80W	719	48.6	876	734	48.8	892	750	49.0	909	766	49.2	925	782	49.4	942
4SRLCR-100W	953	64.9	1164	974	65.2	1185	994	65.4	1206	1015	65.7	1228	1037	65.9	1250
4SRLCR-120W	1103	74.6	1345	1126	74.8	1369	1150	75.1	1393	1174	75.4	1418	1198	75.6	1444
4SRLCR-140W	1430	98.0	1748	1461	98.4	1779	1491	98.8	1812	1523	99.1	1844	1555	99.5	1877
4SRLCR-160W	1642	112.1	2005	1677	112.6	2042	1712	113.0	2079	1748	113.4	2116	1785	113.8	2154
4SRLCR-200W	1973	135.8	2414	2015	136.4	2457	2058	136.9	2501	2101	137.4	2546	2145	137.8	2591
4SRLCR-240W	2308	167.0	2850	2355	167.7	2898	2402	168.3	2948	2450	168.9	2998	2499	169.5	3048

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 7).
- 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 prior notice.



Performance Data (Cont.)

Table 6b: Performance Correction Factors (Reciprocating Compressor) - R22

Models	Condenser Leaving Water Temperature														
	85°F			90°F			95°F			100°F			105°F		
	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
1SRLCR-5W	1.0718	0.9034	1.0411	1.0356	0.9523	1.0205	1.0000	1.0000	1.0000	0.9649	1.0466	0.9798	0.9304	1.0923	0.9599
1SRLCR-7.5W	1.0697	0.8994	1.0387	1.0346	0.9501	1.0193	1.0000	1.0000	1.0000	0.9659	1.0490	0.9810	0.9324	1.0973	0.9624
1SRLCR-10W	1.0634	0.9091	1.0366	1.0317	0.9552	1.0184	1.0000	1.0000	1.0000	0.9684	1.0435	0.9814	0.9368	1.0856	0.9627
1SRLCR-15W	1.0644	0.9087	1.0371	1.0322	0.9551	1.0187	1.0000	1.0000	1.0000	0.9679	1.0435	0.9811	0.9358	1.0856	0.9621
1SRLCR-20W	1.0627	0.9072	1.0356	1.0313	0.9542	1.0179	1.0000	1.0000	1.0000	0.9687	1.0445	0.9820	0.9375	1.0878	0.9638
1SRLCR-25W	1.0610	0.9049	1.0335	1.0305	0.9530	1.0168	1.0000	1.0000	1.0000	0.9696	1.0459	0.9830	0.9393	1.0908	0.9659
1SRLCR-30W	1.0599	0.9039	1.0327	1.0299	0.9524	1.0164	1.0000	1.0000	1.0000	0.9701	1.0466	0.9835	0.9403	1.0921	0.9668
1SRLCR-35W	1.0610	0.9028	1.0330	1.0305	0.9519	1.0166	1.0000	1.0000	1.0000	0.9696	1.0472	0.9833	0.9393	1.0935	0.9665
1SRLCR-40W	1.0610	0.9055	1.0336	1.0305	0.9532	1.0168	1.0000	1.0000	1.0000	0.9696	1.0457	0.9830	0.9393	1.0904	0.9659
1SRLCR-50W	1.0602	0.9055	1.0328	1.0301	0.9532	1.0164	1.0000	1.0000	1.0000	0.9700	1.0459	0.9834	0.9400	1.0908	0.9668
1SRLCR-60W	1.0594	0.9086	1.0315	1.0298	0.9552	1.0160	1.0000	1.0000	1.0000	0.9700	1.0434	0.9835	0.9397	1.0857	0.9667
2SRLCR-10W	1.0718	0.9034	1.0411	1.0356	0.9523	1.0205	1.0000	1.0000	1.0000	0.9649	1.0466	0.9798	0.9304	1.0923	0.9599
2SRLCR-15W	1.0697	0.8994	1.0387	1.0346	0.9501	1.0193	1.0000	1.0000	1.0000	0.9659	1.0490	0.9810	0.9324	1.0973	0.9624
2SRLCR-20W	1.0634	0.9091	1.0366	1.0317	0.9552	1.0184	1.0000	1.0000	1.0000	0.9684	1.0435	0.9814	0.9368	1.0856	0.9627
2SRLCR-30W	1.0644	0.9087	1.0371	1.0322	0.9551	1.0187	1.0000	1.0000	1.0000	0.9679	1.0435	0.9811	0.9358	1.0856	0.9621
2SRLCR-40W	1.0627	0.9072	1.0356	1.0313	0.9542	1.0179	1.0000	1.0000	1.0000	0.9687	1.0445	0.9820	0.9375	1.0878	0.9638
2SRLCR-50W	1.0610	0.9049	1.0335	1.0305	0.9530	1.0168	1.0000	1.0000	1.0000	0.9696	1.0459	0.9830	0.9393	1.0908	0.9659
2SRLCR-60W	1.0599	0.9039	1.0327	1.0299	0.9524	1.0164	1.0000	1.0000	1.0000	0.9701	1.0466	0.9835	0.9403	1.0921	0.9668
2SRLCR-70W	1.0610	0.9028	1.0330	1.0305	0.9519	1.0166	1.0000	1.0000	1.0000	0.9696	1.0472	0.9833	0.9393	1.0935	0.9665
2SRLCR-80W	1.0610	0.9055	1.0336	1.0305	0.9532	1.0168	1.0000	1.0000	1.0000	0.9696	1.0457	0.9830	0.9393	1.0904	0.9659
2SRLCR-100W	1.0602	0.9055	1.0328	1.0301	0.9532	1.0164	1.0000	1.0000	1.0000	0.9700	1.0459	0.9834	0.9400	1.0908	0.9668
2SRLCR-120W	1.0594	0.9086	1.0315	1.0298	0.9552	1.0160	1.0000	1.0000	1.0000	0.9700	1.0434	0.9835	0.9397	1.0857	0.9667
3SRLCR-60W	1.0627	0.9072	1.0356	1.0313	0.9542	1.0179	1.0000	1.0000	1.0000	0.9687	1.0445	0.9820	0.9375	1.0878	0.9638
3SRLCR-75W	1.0610	0.9049	1.0335	1.0305	0.9530	1.0168	1.0000	1.0000	1.0000	0.9696	1.0459	0.9830	0.9393	1.0908	0.9659
3SRLCR-90W	1.0599	0.9039	1.0327	1.0299	0.9524	1.0164	1.0000	1.0000	1.0000	0.9701	1.0466	0.9835	0.9403	1.0921	0.9668
3SRLCR-105W	1.0610	0.9028	1.0330	1.0305	0.9519	1.0166	1.0000	1.0000	1.0000	0.9696	1.0472	0.9833	0.9393	1.0935	0.9665
3SRLCR-120W	1.0610	0.9055	1.0336	1.0305	0.9532	1.0168	1.0000	1.0000	1.0000	0.9696	1.0457	0.9830	0.9393	1.0904	0.9659
3SRLCR-150W	1.0602	0.9055	1.0328	1.0301	0.9532	1.0164	1.0000	1.0000	1.0000	0.9700	1.0459	0.9834	0.9400	1.0908	0.9668
3SRLCR-180W	1.0594	0.9086	1.0315	1.0298	0.9552	1.0160	1.0000	1.0000	1.0000	0.9700	1.0434	0.9835	0.9397	1.0857	0.9667
4SRLCR-80W	1.0627	0.9072	1.0356	1.0313	0.9542	1.0179	1.0000	1.0000	1.0000	0.9687	1.0445	0.9820	0.9375	1.0878	0.9638
4SRLCR-100W	1.0610	0.9049	1.0335	1.0305	0.9530	1.0168	1.0000	1.0000	1.0000	0.9696	1.0459	0.9830	0.9393	1.0908	0.9659
4SRLCR-120W	1.0599	0.9039	1.0327	1.0299	0.9524	1.0164	1.0000	1.0000	1.0000	0.9701	1.0466	0.9835	0.9403	1.0921	0.9668
4SRLCR-140W	1.0610	0.9028	1.0330	1.0305	0.9519	1.0166	1.0000	1.0000	1.0000	0.9696	1.0472	0.9833	0.9393	1.0935	0.9665
4SRLCR-160W	1.0610	0.9055	1.0336	1.0305	0.9532	1.0168	1.0000	1.0000	1.0000	0.9696	1.0457	0.9830	0.9393	1.0904	0.9659
4SRLCR-200W	1.0602	0.9055	1.0328	1.0301	0.9532	1.0164	1.0000	1.0000	1.0000	0.9700	1.0459	0.9834	0.9400	1.0908	0.9668
4SRLCR-240W	1.0594	0.9086	1.0315	1.0298	0.9552	1.0160	1.0000	1.0000	1.0000	0.9700	1.0434	0.9835	0.9397	1.0857	0.9667

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 prior 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-5W	54	3.9	66	55	3.9	68	56	4.0	69	58	4.0	71	59	4.0	72
1SRLCR-7.5W	81	5.8	99	82	5.9	102	84	5.9	104	86	6.0	106	88	6.0	108
1SRLCR-10W	104	7.1	127	106	7.1	129	109	7.1	132	111	7.2	134	114	7.2	137
1SRLCR-15W	144	9.9	176	147	9.9	179	151	10.0	183	154	10.0	187	158	10.1	190
1SRLCR-20W	169	11.6	206	173	11.6	211	177	11.7	215	181	11.7	219	185	11.8	223
1SRLCR-25W	223	15.7	274	229	15.8	280	234	15.9	285	239	16.0	291	245	16.1	297
1SRLCR-30W	262	18.3	321	268	18.4	327	274	18.5	334	280	18.6	341	287	18.7	347
1SRLCR-35W	324	23.3	399	332	23.4	407	339	23.5	416	347	23.7	424	355	23.8	432
1SRLCR-40W	380	27.3	468	389	27.4	478	398	27.6	487	407	27.7	497	416	27.8	506
1SRLCR-50W	448	32.4	552	458	32.5	563	469	32.7	575	479	32.9	586	490	33.1	597
1SRLCR-60W	554	41.2	688	567	41.4	701	580	41.6	714	593	41.8	728	606	42.0	742
2SRLCR-10W	107	7.8	133	110	7.9	135	113	7.9	138	115	8.0	141	118	8.0	144
2SRLCR-15W	161	11.7	199	165	11.8	203	169	11.8	207	173	11.9	211	177	12.0	216
2SRLCR-20W	207	14.2	253	212	14.2	258	217	14.3	264	222	14.4	269	228	14.4	274
2SRLCR-30W	287	19.8	351	294	19.9	359	301	20.0	366	308	20.1	373	315	20.2	381
2SRLCR-40W	338	23.1	413	346	23.2	421	354	23.4	430	362	23.5	438	371	23.6	447
2SRLCR-50W	447	31.4	548	457	31.6	560	468	31.8	571	479	31.9	582	490	32.1	594
2SRLCR-60W	524	36.6	642	536	36.8	655	548	37.0	668	561	37.2	681	573	37.4	694
2SRLCR-70W	648	46.5	799	663	46.8	815	679	47.1	831	694	47.3	848	710	47.6	864
2SRLCR-80W	760	54.6	937	778	54.9	955	795	55.1	974	813	55.4	993	832	55.7	1012
2SRLCR-100W	895	64.7	1105	916	65.1	1127	937	65.4	1149	959	65.8	1172	981	66.1	1195
2SRLCR-120W	1109	82.4	1376	1134	82.8	1402	1159	83.2	1429	1185	83.6	1456	1211	83.9	1483
3SRLCR-60W	507	34.7	619	519	34.9	632	531	35.0	645	543	35.2	657	556	35.4	670
3SRLCR-75W	670	47.1	823	686	47.4	839	702	47.6	856	718	47.9	873	735	48.2	891
3SRLCR-90W	785	54.8	963	804	55.2	982	822	55.5	1002	841	55.8	1022	860	56.0	1042
3SRLCR-105W	972	69.8	1198	995	70.2	1222	1018	70.6	1247	1041	71.0	1272	1065	71.4	1297
3SRLCR-120W	1140	81.8	1405	1166	82.3	1433	1193	82.7	1461	1220	83.1	1490	1248	83.5	1518
3SRLCR-150W	1343	97.1	1657	1374	97.6	1690	1406	98.2	1724	1438	98.7	1758	1471	99.2	1792
3SRLCR-180W	1663	123.6	2064	1701	124.2	2103	1739	124.8	2143	1778	125.3	2184	1817	125.9	2225
4SRLCR-80W	676	46.2	826	692	46.5	843	708	46.7	859	724	46.9	877	741	47.1	894
4SRLCR-100W	893	62.8	1097	914	63.1	1119	936	63.5	1142	958	63.9	1165	980	64.2	1188
4SRLCR-120W	1047	73.1	1284	1071	73.5	1310	1096	74.0	1336	1121	74.3	1362	1146	74.7	1389
4SRLCR-140W	1296	93.1	1598	1326	93.6	1630	1357	94.2	1662	1388	94.7	1695	1420	95.2	1729
4SRLCR-160W	1520	109.1	1874	1555	109.7	1911	1591	110.3	1948	1627	110.8	1986	1664	111.4	2025
4SRLCR-200W	1790	129.4	2210	1832	130.2	2254	1874	130.9	2298	1917	131.6	2344	1961	132.2	2390
4SRLCR-240W	2218	164.8	2752	2268	165.6	2804	2319	166.4	2858	2370	167.1	2912	2423	167.8	2967

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 7).
- 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 prior notice.

Performance Data (Cont.)

Table 7b: Performance Correction Factors (Reciprocating Compressor) - R407C

Models	Condenser Leaving Water Temperature														
	85°F			90°F			95°F			100°F			105°F		
	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
1SRLCR-5W	1.0816	0.9175	1.0511	1.0409	0.9598	1.0258	1.0000	1.0000	1.0000	0.9591	1.0379	0.9737	0.9181	1.0735	0.9470
1SRLCR-7.5W	1.0802	0.9145	1.0495	1.0401	0.9583	1.0250	1.0000	1.0000	1.0000	0.9598	1.0396	0.9746	0.9195	1.0771	0.9487
1SRLCR-10W	1.0781	0.9098	1.0485	1.0392	0.9562	1.0246	1.0000	1.0000	1.0000	0.9604	1.0410	0.9746	0.9204	1.0793	0.9483
1SRLCR-15W	1.0793	0.9096	1.0493	1.0399	0.9562	1.0251	1.0000	1.0000	1.0000	0.9598	1.0409	0.9741	0.9192	1.0788	0.9474
1SRLCR-20W	1.0772	0.9078	1.0473	1.0388	0.9552	1.0241	1.0000	1.0000	1.0000	0.9608	1.0422	0.9752	0.9213	1.0816	0.9496
1SRLCR-25W	1.0742	0.9121	1.0449	1.0372	0.9570	1.0228	1.0000	1.0000	1.0000	0.9624	1.0410	0.9766	0.9246	1.0799	0.9526
1SRLCR-30W	1.0709	0.9089	1.0418	1.0356	0.9553	1.0212	1.0000	1.0000	1.0000	0.9641	1.0430	0.9783	0.9280	1.0842	0.9560
1SRLCR-35W	1.0721	0.9023	1.0409	1.0364	0.9522	1.0209	1.0000	1.0000	1.0000	0.9630	1.0456	0.9782	0.9255	1.0890	0.9555
1SRLCR-40W	1.0692	0.9016	1.0384	1.0349	0.9517	1.0196	1.0000	1.0000	1.0000	0.9645	1.0464	0.9795	0.9285	1.0908	0.9583
1SRLCR-50W	1.0712	0.9047	1.0405	1.0359	0.9533	1.0207	1.0000	1.0000	1.0000	0.9635	1.0446	0.9784	0.9264	1.0870	0.9561
1SRLCR-60W	1.0728	0.9105	1.0422	1.0365	0.9560	1.0213	1.0000	1.0000	1.0000	0.9635	1.0425	0.9784	0.9269	1.0836	0.9564
2SRLCR-10W	1.0816	0.9175	1.0511	1.0409	0.9598	1.0258	1.0000	1.0000	1.0000	0.9591	1.0379	0.9737	0.9181	1.0735	0.9470
2SRLCR-15W	1.0802	0.9145	1.0495	1.0401	0.9583	1.0250	1.0000	1.0000	1.0000	0.9598	1.0396	0.9746	0.9195	1.0771	0.9487
2SRLCR-20W	1.0781	0.9098	1.0485	1.0392	0.9562	1.0246	1.0000	1.0000	1.0000	0.9604	1.0410	0.9746	0.9204	1.0793	0.9483
2SRLCR-30W	1.0793	0.9096	1.0493	1.0399	0.9562	1.0251	1.0000	1.0000	1.0000	0.9598	1.0409	0.9741	0.9192	1.0788	0.9474
2SRLCR-40W	1.0772	0.9078	1.0473	1.0388	0.9552	1.0241	1.0000	1.0000	1.0000	0.9608	1.0422	0.9752	0.9213	1.0816	0.9496
2SRLCR-50W	1.0742	0.9121	1.0449	1.0372	0.9570	1.0228	1.0000	1.0000	1.0000	0.9624	1.0410	0.9766	0.9246	1.0799	0.9526
2SRLCR-60W	1.0709	0.9089	1.0418	1.0356	0.9553	1.0212	1.0000	1.0000	1.0000	0.9641	1.0430	0.9783	0.9280	1.0842	0.9560
2SRLCR-70W	1.0721	0.9023	1.0409	1.0364	0.9522	1.0209	1.0000	1.0000	1.0000	0.9630	1.0456	0.9782	0.9255	1.0890	0.9555
2SRLCR-80W	1.0692	0.9016	1.0384	1.0349	0.9517	1.0196	1.0000	1.0000	1.0000	0.9645	1.0464	0.9795	0.9285	1.0908	0.9583
2SRLCR-100W	1.0712	0.9047	1.0405	1.0359	0.9533	1.0207	1.0000	1.0000	1.0000	0.9635	1.0446	0.9784	0.9264	1.0870	0.9561
2SRLCR-120W	1.0728	0.9105	1.0422	1.0365	0.9560	1.0213	1.0000	1.0000	1.0000	0.9635	1.0425	0.9784	0.9269	1.0836	0.9564
3SRLCR-60W	1.0772	0.9078	1.0473	1.0388	0.9552	1.0241	1.0000	1.0000	1.0000	0.9608	1.0422	0.9752	0.9213	1.0816	0.9496
3SRLCR-75W	1.0742	0.9121	1.0449	1.0372	0.9570	1.0228	1.0000	1.0000	1.0000	0.9624	1.0410	0.9766	0.9246	1.0799	0.9526
3SRLCR-90W	1.0709	0.9089	1.0418	1.0356	0.9553	1.0212	1.0000	1.0000	1.0000	0.9641	1.0430	0.9783	0.9280	1.0842	0.9560
3SRLCR-105W	1.0721	0.9023	1.0409	1.0364	0.9522	1.0209	1.0000	1.0000	1.0000	0.9630	1.0456	0.9782	0.9255	1.0890	0.9555
3SRLCR-120W	1.0692	0.9016	1.0384	1.0349	0.9517	1.0196	1.0000	1.0000	1.0000	0.9645	1.0464	0.9795	0.9285	1.0908	0.9583
3SRLCR-150W	1.0712	0.9047	1.0405	1.0359	0.9533	1.0207	1.0000	1.0000	1.0000	0.9635	1.0446	0.9784	0.9264	1.0870	0.9561
3SRLCR-180W	1.0728	0.9105	1.0422	1.0365	0.9560	1.0213	1.0000	1.0000	1.0000	0.9635	1.0425	0.9784	0.9269	1.0836	0.9564
4SRLCR-80W	1.0772	0.9078	1.0473	1.0388	0.9552	1.0241	1.0000	1.0000	1.0000	0.9608	1.0422	0.9752	0.9213	1.0816	0.9496
4SRLCR-100W	1.0742	0.9121	1.0449	1.0372	0.9570	1.0228	1.0000	1.0000	1.0000	0.9624	1.0410	0.9766	0.9246	1.0799	0.9526
4SRLCR-120W	1.0709	0.9089	1.0418	1.0356	0.9553	1.0212	1.0000	1.0000	1.0000	0.9641	1.0430	0.9783	0.9280	1.0842	0.9560
4SRLCR-140W	1.0721	0.9023	1.0409	1.0364	0.9522	1.0209	1.0000	1.0000	1.0000	0.9630	1.0456	0.9782	0.9255	1.0890	0.9555
4SRLCR-160W	1.0692	0.9016	1.0384	1.0349	0.9517	1.0196	1.0000	1.0000	1.0000	0.9645	1.0464	0.9795	0.9285	1.0908	0.9583
4SRLCR-200W	1.0712	0.9047	1.0405	1.0359	0.9533	1.0207	1.0000	1.0000	1.0000	0.9635	1.0446	0.9784	0.9264	1.0870	0.9561
4SRLCR-240W	1.0728	0.9105	1.0422	1.0365	0.9560	1.0213	1.0000	1.0000	1.0000	0.9635	1.0425	0.9784	0.9269	1.0836	0.9564

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 prior 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-5W	55	3.9	68	56	3.9	69	58	3.9	71	59	4.0	72	61	4.0	74
1SRLCR-7.5W	73	4.9	88	74	4.9	90	76	4.9	92	78	5.0	94	80	5.0	96
1SRLCR-10W	101	6.6	122	103	6.7	125	106	6.7	127	108	6.8	130	111	6.8	133
1SRLCR-15W	118	7.8	144	121	7.9	147	124	8.0	150	127	8.0	153	130	8.1	156
1SRLCR-20W	157	10.6	191	160	10.6	195	164	10.7	199	168	10.8	203	172	10.8	207
1SRLCR-25W	177	12.3	217	182	12.4	222	186	12.5	226	190	12.6	231	195	12.7	236
1SRLCR-30W	232	15.8	283	237	15.9	289	243	16.0	295	248	16.1	301	254	16.2	307
1SRLCR-35W	265	18.6	325	271	18.7	332	278	18.9	339	284	19.0	346	291	19.1	353
1SRLCR-40W	319	22.5	392	327	22.7	400	334	22.8	408	342	23.0	416	350	23.1	425
1SRLCR-50W	363	27.9	453	371	28.1	463	380	28.4	472	389	28.6	481	398	28.8	491
1SRLCR-60W	427	32.8	533	437	33.1	544	447	33.3	555	457	33.6	566	467	33.8	577
2SRLCR-10W	110	7.8	135	113	7.8	138	116	7.9	141	119	7.9	144	121	8.0	147
2SRLCR-15W	145	9.7	177	149	9.8	181	152	9.9	184	156	9.9	188	160	10.0	192
2SRLCR-20W	201	13.2	244	206	13.3	249	211	13.4	255	216	13.5	260	222	13.6	266
2SRLCR-30W	237	15.7	287	242	15.8	294	248	15.9	300	254	16.0	306	260	16.1	313
2SRLCR-40W	314	21.1	382	321	21.3	390	328	21.4	398	336	21.5	406	344	21.7	414
2SRLCR-50W	355	24.6	435	363	24.8	444	372	25.0	453	380	25.2	462	389	25.3	471
2SRLCR-60W	463	31.6	566	474	31.8	577	485	32.0	589	497	32.2	601	508	32.4	613
2SRLCR-70W	530	37.2	651	542	37.5	664	555	37.7	678	568	38.0	691	581	38.3	705
2SRLCR-80W	638	45.0	784	653	45.3	800	668	45.6	816	684	45.9	833	699	46.2	849
2SRLCR-100W	726	55.9	907	743	56.3	925	760	56.7	944	778	57.1	963	796	57.5	982
2SRLCR-120W	853	65.7	1066	873	66.2	1088	893	66.7	1109	914	67.1	1131	935	67.6	1154
3SRLCR-60W	470	31.7	573	481	31.9	585	493	32.1	597	504	32.3	609	516	32.5	621
3SRLCR-75W	532	36.9	652	545	37.2	665	557	37.5	679	570	37.7	693	584	38.0	707
3SRLCR-90W	695	47.4	849	711	47.8	866	728	48.1	884	745	48.4	902	762	48.7	920
3SRLCR-105W	795	55.8	976	814	56.2	996	833	56.6	1016	852	57.0	1037	872	57.4	1058
3SRLCR-120W	957	67.5	1176	980	68.0	1200	1002	68.4	1224	1025	68.9	1249	1049	69.3	1274
3SRLCR-150W	1088	83.8	1360	1114	84.4	1388	1140	85.1	1416	1166	85.7	1444	1193	86.3	1473
3SRLCR-180W	1280	98.5	1599	1310	99.3	1632	1340	100.0	1664	1371	100.7	1697	1402	101.4	1731
4SRLCR-80W	627	42.3	764	642	42.5	780	657	42.8	796	672	43.1	812	687	43.3	828
4SRLCR-100W	710	49.2	869	726	49.6	887	743	50.0	905	761	50.3	924	778	50.7	942
4SRLCR-120W	926	63.2	1131	948	63.7	1155	971	64.1	1178	994	64.5	1203	1017	64.9	1227
4SRLCR-140W	1060	74.4	1301	1085	74.9	1328	1110	75.5	1355	1136	76.0	1383	1162	76.6	1411
4SRLCR-160W	1276	90.0	1568	1306	90.6	1600	1336	91.3	1632	1367	91.9	1665	1399	92.5	1698
4SRLCR-200W	1451	111.7	1813	1485	112.6	1850	1520	113.4	1888	1555	114.3	1926	1591	115.1	1964
4SRLCR-240W	1707	131.3	2133	1746	132.3	2175	1787	133.3	2219	1828	134.3	2263	1869	135.2	2308

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 7).
- 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 prior notice.

Performance Data (Cont.)

Table 8b: Performance Correction Factors (Reciprocating Compressor) - R134a

Models	Condenser Leaving Water Temperature														
	85°F			90°F			95°F			100°F			105°F		
	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
1SRLCR-5W	1.0762	0.9108	1.0463	1.0381	0.9565	1.0234	1.0000	1.0000	1.0000	0.9618	1.0414	0.9762	0.9235	1.0806	0.9519
1SRLCR-7.5W	1.0812	0.9098	1.0515	1.0407	0.9560	1.0261	1.0000	1.0000	1.0000	0.9590	1.0416	0.9734	0.9180	1.0808	0.9462
1SRLCR-10W	1.0828	0.9168	1.0544	1.0415	0.9596	1.0275	1.0000	1.0000	1.0000	0.9582	1.0381	0.9719	0.9164	1.0737	0.9432
1SRLCR-15W	1.0800	0.9166	1.0519	1.0402	0.9594	1.0263	1.0000	1.0000	1.0000	0.9596	1.0385	0.9732	0.9191	1.0748	0.9459
1SRLCR-20W	1.0720	0.9127	1.0442	1.0360	0.9571	1.0223	1.0000	1.0000	1.0000	0.9639	1.0413	0.9774	0.9277	1.0811	0.9544
1SRLCR-25W	1.0744	0.9153	1.0460	1.0376	0.9586	1.0234	1.0000	1.0000	1.0000	0.9619	1.0393	0.9757	0.9233	1.0766	0.9507
1SRLCR-30W	1.0719	0.9089	1.0432	1.0361	0.9556	1.0219	1.0000	1.0000	1.0000	0.9637	1.0422	0.9775	0.9271	1.0822	0.9545
1SRLCR-35W	1.0725	0.9110	1.0433	1.0364	0.9566	1.0220	1.0000	1.0000	1.0000	0.9635	1.0411	0.9775	0.9268	1.0798	0.9544
1SRLCR-40W	1.0714	0.9132	1.0427	1.0358	0.9577	1.0216	1.0000	1.0000	1.0000	0.9640	1.0401	0.9778	0.9279	1.0781	0.9551
1SRLCR-50W	1.0723	0.9287	1.0443	1.0363	0.9656	1.0225	1.0000	1.0000	1.0000	0.9636	1.0320	0.9769	0.9270	1.0617	0.9532
1SRLCR-60W	1.0730	0.9274	1.0447	1.0366	0.9649	1.0227	1.0000	1.0000	1.0000	0.9632	1.0327	0.9767	0.9263	1.0632	0.9529
2SRLCR-10W	1.0762	0.9108	1.0463	1.0381	0.9565	1.0234	1.0000	1.0000	1.0000	0.9618	1.0414	0.9762	0.9235	1.0806	0.9519
2SRLCR-15W	1.0812	0.9098	1.0515	1.0407	0.9560	1.0261	1.0000	1.0000	1.0000	0.9590	1.0416	0.9734	0.9180	1.0808	0.9462
2SRLCR-20W	1.0828	0.9168	1.0544	1.0415	0.9596	1.0275	1.0000	1.0000	1.0000	0.9582	1.0381	0.9719	0.9164	1.0737	0.9432
2SRLCR-30W	1.0800	0.9166	1.0519	1.0402	0.9594	1.0263	1.0000	1.0000	1.0000	0.9596	1.0385	0.9732	0.9191	1.0748	0.9459
2SRLCR-40W	1.0720	0.9127	1.0442	1.0360	0.9571	1.0223	1.0000	1.0000	1.0000	0.9639	1.0413	0.9774	0.9277	1.0811	0.9544
2SRLCR-50W	1.0744	0.9153	1.0460	1.0376	0.9586	1.0234	1.0000	1.0000	1.0000	0.9619	1.0393	0.9757	0.9233	1.0766	0.9507
2SRLCR-60W	1.0719	0.9089	1.0432	1.0361	0.9556	1.0219	1.0000	1.0000	1.0000	0.9637	1.0422	0.9775	0.9271	1.0822	0.9545
2SRLCR-70W	1.0725	0.9110	1.0433	1.0364	0.9566	1.0220	1.0000	1.0000	1.0000	0.9635	1.0411	0.9775	0.9268	1.0798	0.9544
2SRLCR-80W	1.0714	0.9132	1.0427	1.0358	0.9577	1.0216	1.0000	1.0000	1.0000	0.9640	1.0401	0.9778	0.9279	1.0781	0.9551
2SRLCR-100W	1.0723	0.9287	1.0443	1.0363	0.9656	1.0225	1.0000	1.0000	1.0000	0.9636	1.0320	0.9769	0.9270	1.0617	0.9532
2SRLCR-120W	1.0730	0.9274	1.0447	1.0366	0.9649	1.0227	1.0000	1.0000	1.0000	0.9632	1.0327	0.9767	0.9263	1.0632	0.9529
3SRLCR-60W	1.0720	0.9127	1.0442	1.0360	0.9571	1.0223	1.0000	1.0000	1.0000	0.9639	1.0413	0.9774	0.9277	1.0811	0.9544
3SRLCR-75W	1.0744	0.9153	1.0460	1.0376	0.9586	1.0234	1.0000	1.0000	1.0000	0.9619	1.0393	0.9757	0.9233	1.0766	0.9507
3SRLCR-90W	1.0719	0.9089	1.0432	1.0361	0.9556	1.0219	1.0000	1.0000	1.0000	0.9637	1.0422	0.9775	0.9271	1.0822	0.9545
3SRLCR-105W	1.0725	0.9110	1.0433	1.0364	0.9566	1.0220	1.0000	1.0000	1.0000	0.9635	1.0411	0.9775	0.9268	1.0798	0.9544
3SRLCR-120W	1.0714	0.9132	1.0427	1.0358	0.9577	1.0216	1.0000	1.0000	1.0000	0.9640	1.0401	0.9778	0.9279	1.0781	0.9551
3SRLCR-150W	1.0723	0.9287	1.0443	1.0363	0.9656	1.0225	1.0000	1.0000	1.0000	0.9636	1.0320	0.9769	0.9270	1.0617	0.9532
3SRLCR-180W	1.0730	0.9274	1.0447	1.0366	0.9649	1.0227	1.0000	1.0000	1.0000	0.9632	1.0327	0.9767	0.9263	1.0632	0.9529
4SRLCR-80W	1.0720	0.9127	1.0442	1.0360	0.9571	1.0223	1.0000	1.0000	1.0000	0.9639	1.0413	0.9774	0.9277	1.0811	0.9544
4SRLCR-100W	1.0744	0.9153	1.0460	1.0376	0.9586	1.0234	1.0000	1.0000	1.0000	0.9619	1.0393	0.9757	0.9233	1.0766	0.9507
4SRLCR-120W	1.0719	0.9089	1.0432	1.0361	0.9556	1.0219	1.0000	1.0000	1.0000	0.9637	1.0422	0.9775	0.9271	1.0822	0.9545
4SRLCR-140W	1.0725	0.9110	1.0433	1.0364	0.9566	1.0220	1.0000	1.0000	1.0000	0.9635	1.0411	0.9775	0.9268	1.0798	0.9544
4SRLCR-160W	1.0714	0.9132	1.0427	1.0358	0.9577	1.0216	1.0000	1.0000	1.0000	0.9640	1.0401	0.9778	0.9279	1.0781	0.9551
4SRLCR-200W	1.0723	0.9287	1.0443	1.0363	0.9656	1.0225	1.0000	1.0000	1.0000	0.9636	1.0320	0.9769	0.9270	1.0617	0.9532
4SRLCR-240W	1.0730	0.9274	1.0447	1.0366	0.9649	1.0227	1.0000	1.0000	1.0000	0.9632	1.0327	0.9767	0.9263	1.0632	0.9529

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 prior 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
1SRLCS-50W	418	30.6	512	426	30.8	521	435	30.9	530	444	31.0	539	452	31.1	548
1SRLCS-60W	525	38.0	641	535	38.2	652	546	38.3	663	556	38.4	674	567	38.6	686
1SRLCS-70W	614	45.8	754	626	46.0	767	638	46.2	780	651	46.4	793	663	46.6	806
1SRLCS-80W	713	51.8	872	727	52.0	887	741	52.2	902	756	52.5	917	770	52.7	932
1SRLCS-90W	855	59.5	1038	872	59.7	1055	888	59.9	1072	905	60.2	1090	922	60.4	1107
1SRLCS-110W	1022	71.3	1242	1043	71.7	1263	1064	72.2	1286	1085	72.6	1308	1107	73.1	1331
1SRLCS-125W	1165	81.3	1415	1189	81.8	1440	1213	82.2	1465	1237	82.7	1491	1261	83.3	1517
1SRLCS-140W	1369	100.0	1676	1395	100.5	1703	1420	101.0	1731	1447	101.5	1758	1473	102.1	1786
2SRLCS-100W	836	61.3	1024	853	61.5	1042	870	61.7	1059	887	62.0	1077	904	62.2	1095
2SRLCS-120W	1049	76.0	1283	1070	76.3	1304	1091	76.6	1327	1113	76.9	1349	1135	77.1	1372
2SRLCS-140W	1227	91.6	1509	1252	92.0	1534	1276	92.4	1560	1301	92.8	1586	1327	93.2	1613
2SRLCS-160W	1426	103.6	1744	1454	104.0	1773	1482	104.5	1803	1511	105.0	1833	1540	105.5	1864
2SRLCS-180W	1710	119.0	2076	1743	119.4	2110	1776	119.9	2144	1810	120.3	2179	1844	120.8	2215
2SRLCS-220W	2045	142.7	2483	2086	143.5	2527	2128	144.3	2571	2170	145.2	2616	2213	146.1	2662
2SRLCS-250W	2331	162.6	2830	2378	163.5	2880	2425	164.5	2930	2474	165.5	2982	2523	166.5	3034
2SRLCS-280W	2739	200.0	3353	2790	201.0	3407	2841	202.0	3461	2893	203.1	3517	2946	204.1	3573
3SRLCS-150W	1254	91.9	1536	1279	92.3	1563	1305	92.6	1589	1331	92.9	1616	1357	93.2	1643
3SRLCS-180W	1574	114.1	1924	1605	114.5	1957	1637	114.9	1990	1669	115.3	2023	1702	115.7	2057
3SRLCS-210W	1841	137.5	2263	1878	138.1	2301	1914	138.6	2340	1952	139.2	2379	1990	139.8	2419
3SRLCS-240W	2139	155.3	2616	2181	156.0	2660	2223	156.7	2705	2267	157.4	2750	2310	158.2	2796
3SRLCS-270W	2566	178.5	3114	2615	179.1	3165	2664	179.8	3217	2715	180.5	3269	2766	181.2	3322
4SRLCS-200W	1672	122.6	2049	1706	123.0	2083	1740	123.5	2119	1774	123.9	2155	1809	124.3	2191
4SRLCS-240W	2098	152.1	2565	2140	152.7	2609	2183	153.2	2653	2226	153.7	2698	2270	154.2	2743
4SRLCS-280W	2455	183.3	3018	2503	184.1	3069	2553	184.9	3120	2602	185.7	3173	2653	186.5	3226
4SRLCS-320W	2851	207.1	3487	2908	208.0	3546	2964	209.0	3606	3022	209.9	3667	3081	210.9	3728
4SRLCS-360W	3421	237.9	4152	3486	238.8	4220	3553	239.7	4289	3620	240.7	4359	3688	241.6	4430
4SRLCS-440W	4090	285.3	4966	4172	286.9	5054	4256	288.6	5142	4341	290.4	5233	4427	292.3	5324
4SRLCS-500W	4661	325.2	5660	4755	327.0	5759	4851	328.9	5861	4947	331.0	5964	5045	333.1	6068
4SRLCS-560W	5478	400.0	6706	5579	402.0	6814	5682	404.0	6923	5786	406.1	7033	5892	408.3	7146

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 7).
- 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 prior notice.

Performance Data (Cont.)

Table 9b: Performance Correction Factors (Screw Compressor) - R22

Models	Condenser Leaving Water Temperature														
	85°F			90°F			95°F			100°F			105°F		
	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
1SRLCS-50W	1.0612	0.8992	1.0322	1.0305	0.9482	1.0158	1.0000	1.0000	1.0000	0.9696	1.0547	0.9848	0.9392	1.1124	0.9702
1SRLCS-60W	1.0610	0.8992	1.0323	1.0304	0.9482	1.0158	1.0000	1.0000	1.0000	0.9697	1.0547	0.9848	0.9394	1.1124	0.9700
1SRLCS-70W	1.0629	0.9076	1.0347	1.0321	0.9520	1.0175	1.0000	1.0000	1.0000	0.9665	1.0515	0.9820	0.9315	1.1065	0.9634
1SRLCS-80W	1.0671	0.9112	1.0394	1.0342	0.9539	1.0199	1.0000	1.0000	1.0000	0.9646	1.0493	0.9796	0.9277	1.1017	0.9587
1SRLCS-90W	1.0600	0.9085	1.0339	1.0305	0.9524	1.0171	1.0000	1.0000	1.0000	0.9683	1.0512	0.9825	0.9352	1.1059	0.9645
1SRLCS-110W	1.0668	0.9245	1.0423	1.0340	0.9591	1.0211	1.0000	1.0000	1.0000	0.9650	1.0473	0.9792	0.9289	1.1008	0.9586
1SRLCS-125W	1.0668	0.9245	1.0423	1.0340	0.9591	1.0211	1.0000	1.0000	1.0000	0.9650	1.0473	0.9792	0.9289	1.1008	0.9586
1SRLCS-140W	1.0524	0.9211	1.0288	1.0270	0.9587	1.0147	1.0000	1.0000	1.0000	0.9713	1.0448	0.9844	0.9405	1.0930	0.9678
2SRLCS-100W	1.0612	0.8992	1.0322	1.0305	0.9482	1.0158	1.0000	1.0000	1.0000	0.9696	1.0547	0.9848	0.9392	1.1124	0.9702
2SRLCS-120W	1.0610	0.8992	1.0323	1.0304	0.9482	1.0158	1.0000	1.0000	1.0000	0.9697	1.0547	0.9848	0.9394	1.1124	0.9700
2SRLCS-140W	1.0629	0.9076	1.0347	1.0321	0.9520	1.0175	1.0000	1.0000	1.0000	0.9665	1.0515	0.9820	0.9315	1.1065	0.9634
2SRLCS-160W	1.0671	0.9112	1.0394	1.0342	0.9539	1.0199	1.0000	1.0000	1.0000	0.9646	1.0493	0.9796	0.9277	1.1017	0.9587
2SRLCS-180W	1.0600	0.9085	1.0339	1.0305	0.9524	1.0171	1.0000	1.0000	1.0000	0.9683	1.0512	0.9825	0.9352	1.1059	0.9645
2SRLCS-220W	1.0668	0.9245	1.0423	1.0340	0.9591	1.0211	1.0000	1.0000	1.0000	0.9650	1.0473	0.9792	0.9289	1.1008	0.9586
2SRLCS-250W	1.0668	0.9245	1.0423	1.0340	0.9591	1.0211	1.0000	1.0000	1.0000	0.9650	1.0473	0.9792	0.9289	1.1008	0.9586
2SRLCS-280W	1.0524	0.9211	1.0288	1.0270	0.9587	1.0147	1.0000	1.0000	1.0000	0.9713	1.0448	0.9844	0.9405	1.0930	0.9678
3SRLCS-150W	1.0612	0.8992	1.0322	1.0305	0.9482	1.0158	1.0000	1.0000	1.0000	0.9696	1.0547	0.9848	0.9392	1.1124	0.9702
3SRLCS-180W	1.0610	0.8992	1.0323	1.0304	0.9482	1.0158	1.0000	1.0000	1.0000	0.9697	1.0547	0.9848	0.9394	1.1124	0.9700
3SRLCS-210W	1.0629	0.9076	1.0347	1.0321	0.9520	1.0175	1.0000	1.0000	1.0000	0.9665	1.0515	0.9820	0.9315	1.1065	0.9634
3SRLCS-240W	1.0671	0.9112	1.0394	1.0342	0.9539	1.0199	1.0000	1.0000	1.0000	0.9646	1.0493	0.9796	0.9277	1.1017	0.9587
3SRLCS-270W	1.0600	0.9085	1.0339	1.0305	0.9524	1.0171	1.0000	1.0000	1.0000	0.9683	1.0512	0.9825	0.9352	1.1059	0.9645
4SRLCS-200W	1.0612	0.8992	1.0322	1.0305	0.9482	1.0158	1.0000	1.0000	1.0000	0.9696	1.0547	0.9848	0.9392	1.1124	0.9702
4SRLCS-240W	1.0610	0.8992	1.0323	1.0304	0.9482	1.0158	1.0000	1.0000	1.0000	0.9697	1.0547	0.9848	0.9394	1.1124	0.9700
4SRLCS-280W	1.0629	0.9076	1.0347	1.0321	0.9520	1.0175	1.0000	1.0000	1.0000	0.9665	1.0515	0.9820	0.9315	1.1065	0.9634
4SRLCS-320W	1.0671	0.9112	1.0394	1.0342	0.9539	1.0199	1.0000	1.0000	1.0000	0.9646	1.0493	0.9796	0.9277	1.1017	0.9587
4SRLCS-360W	1.0600	0.9085	1.0339	1.0305	0.9524	1.0171	1.0000	1.0000	1.0000	0.9683	1.0512	0.9825	0.9352	1.1059	0.9645
4SRLCS-440W	1.0668	0.9245	1.0423	1.0340	0.9591	1.0211	1.0000	1.0000	1.0000	0.9650	1.0473	0.9792	0.9289	1.1008	0.9586
4SRLCS-500W	1.0668	0.9245	1.0423	1.0340	0.9591	1.0211	1.0000	1.0000	1.0000	0.9650	1.0473	0.9792	0.9289	1.1008	0.9586
4SRLCS-560W	1.0524	0.9211	1.0288	1.0270	0.9587	1.0147	1.0000	1.0000	1.0000	0.9713	1.0448	0.9844	0.9405	1.0930	0.9678

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 prior notice.

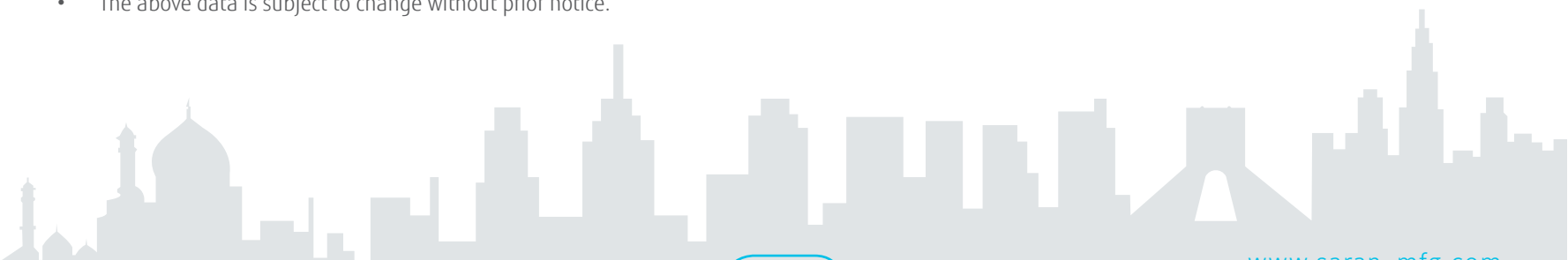
Performance Data (Cont.)

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
1SRLCS-50W	419	29.9	514	428	30.1	524	438	30.2	533	447	30.4	543	456	30.6	553
1SRLCS-60W	526	37.1	644	537	37.3	656	549	37.5	668	561	37.7	680	573	37.9	693
1SRLCS-70W	617	43.3	754	631	43.5	769	645	43.7	784	659	43.9	798	674	44.1	814
1SRLCS-80W	705	49.4	861	720	49.8	878	736	50.1	895	752	50.4	913	769	50.8	930
1SRLCS-90W	811	56.0	989	828	56.2	1007	846	56.5	1026	864	56.8	1044	883	57.0	1064
1SRLCS-110W	1008	69.3	1228	1029	69.6	1250	1051	70.0	1273	1073	70.3	1296	1095	70.7	1319
1SRLCS-125W	1149	79.0	1399	1173	79.4	1425	1198	79.8	1451	1223	80.2	1477	1248	80.6	1504
1SRLCS-140W	1326	90.2	1612	1354	90.6	1642	1383	91.1	1672	1412	91.5	1702	1441	92.0	1733
2SRLCS-100W	839	59.9	1029	857	60.2	1048	875	60.5	1067	894	60.8	1087	913	61.1	1106
2SRLCS-120W	1052	74.3	1288	1075	74.7	1312	1098	75.0	1336	1121	75.4	1361	1145	75.8	1386
2SRLCS-140W	1234	86.5	1509	1262	86.9	1538	1290	87.3	1567	1319	87.7	1597	1348	88.1	1627
2SRLCS-160W	1409	98.8	1723	1441	99.5	1756	1472	100.2	1790	1505	100.9	1825	1538	101.6	1860
2SRLCS-180W	1622	111.9	1977	1657	112.4	2014	1692	113.0	2051	1729	113.5	2089	1765	114.1	2127
2SRLCS-220W	2016	138.6	2456	2058	139.3	2500	2102	140.0	2546	2145	140.7	2592	2190	141.4	2639
2SRLCS-250W	2297	158.0	2799	2346	158.7	2850	2395	159.5	2902	2445	160.3	2954	2496	161.2	3008
2SRLCS-280W	2652	180.4	3225	2708	181.3	3284	2765	182.2	3343	2823	183.1	3404	2882	184.0	3466
3SRLCS-150W	1258	89.8	1543	1285	90.2	1572	1313	90.7	1600	1341	91.2	1630	1369	91.7	1660
3SRLCS-180W	1578	111.4	1932	1612	112.0	1968	1647	112.6	2004	1682	113.1	2041	1718	113.7	2078
3SRLCS-210W	1851	129.8	2263	1893	130.4	2307	1935	131.0	2351	1978	131.6	2395	2022	132.2	2441
3SRLCS-240W	2114	148.3	2584	2161	149.3	2635	2209	150.3	2686	2257	151.3	2738	2307	152.4	2791
3SRLCS-270W	2433	167.9	2966	2485	168.7	3021	2539	169.5	3077	2593	170.3	3133	2648	171.1	3191
4SRLCS-200W	1678	119.7	2057	1714	120.3	2095	1750	120.9	2134	1787	121.6	2173	1825	122.2	2213
4SRLCS-240W	2105	148.6	2576	2150	149.3	2624	2196	150.1	2672	2243	150.9	2721	2290	151.6	2771
4SRLCS-280W	2469	173.1	3018	2524	173.8	3076	2580	174.6	3134	2637	175.4	3194	2695	176.2	3255
4SRLCS-320W	2818	197.7	3446	2881	199.0	3513	2945	200.4	3581	3010	201.8	3650	3076	203.2	3721
4SRLCS-360W	3244	223.8	3954	3314	224.9	4028	3385	226.0	4102	3457	227.0	4178	3530	228.1	4254
4SRLCS-440W	4031	277.2	4911	4117	278.5	5001	4203	279.9	5091	4291	281.4	5184	4380	282.8	5278
4SRLCS-500W	4595	315.9	5597	4692	317.5	5699	4791	319.1	5803	4891	320.7	5908	4993	322.3	6015
4SRLCS-560W	5305	360.7	6449	5417	362.5	6567	5531	364.3	6687	5646	366.2	6808	5764	368.0	6932

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 7).
- 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 prior notice.



Performance Data (Cont.)

Table 10b: Performance Correction Factors (Screw Compressor) - R407C

Models	Condenser Leaving Water Temperature														
	85°F			90°F			95°F			100°F			105°F		
	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
1SRLCS-50W	1.0702	0.8996	1.0395	1.0360	0.9482	1.0202	1.0000	1.0000	1.0000	0.9623	1.0551	0.9790	0.9227	1.1136	0.9571
1SRLCS-60W	1.0699	0.8996	1.0395	1.0358	0.9482	1.0201	1.0000	1.0000	1.0000	0.9625	1.0551	0.9790	0.9232	1.1136	0.9572
1SRLCS-70W	1.0799	0.9056	1.0491	1.0406	0.9510	1.0248	1.0000	1.0000	1.0000	0.9581	1.0526	0.9748	0.9152	1.1090	0.9494
1SRLCS-80W	1.0850	0.9166	1.0551	1.0431	0.9569	1.0278	1.0000	1.0000	1.0000	0.9558	1.0463	0.9719	0.9107	1.0958	0.9436
1SRLCS-90W	1.0783	0.9035	1.0478	1.0398	0.9500	1.0241	1.0000	1.0000	1.0000	0.9589	1.0538	0.9755	0.9167	1.1114	0.9508
1SRLCS-110W	1.0702	0.8984	1.0402	1.0357	0.9468	1.0202	1.0000	1.0000	1.0000	0.9632	1.0581	0.9798	0.9253	1.1212	0.9595
1SRLCS-125W	1.0701	0.8983	1.0401	1.0356	0.9468	1.0201	1.0000	1.0000	1.0000	0.9633	1.0581	0.9798	0.9255	1.1212	0.9596
1SRLCS-140W	1.0699	0.8983	1.0402	1.0355	0.9468	1.0201	1.0000	1.0000	1.0000	0.9634	1.0581	0.9798	0.9258	1.1212	0.9596
2SRLCS-100W	1.0702	0.8996	1.0395	1.0360	0.9482	1.0202	1.0000	1.0000	1.0000	0.9623	1.0551	0.9790	0.9227	1.1136	0.9571
2SRLCS-120W	1.0699	0.8996	1.0395	1.0358	0.9482	1.0201	1.0000	1.0000	1.0000	0.9625	1.0551	0.9790	0.9232	1.1136	0.9572
2SRLCS-140W	1.0799	0.9056	1.0491	1.0406	0.9510	1.0248	1.0000	1.0000	1.0000	0.9581	1.0526	0.9748	0.9152	1.1090	0.9494
2SRLCS-160W	1.0850	0.9166	1.0551	1.0431	0.9569	1.0278	1.0000	1.0000	1.0000	0.9558	1.0463	0.9719	0.9107	1.0958	0.9436
2SRLCS-180W	1.0783	0.9035	1.0478	1.0398	0.9500	1.0241	1.0000	1.0000	1.0000	0.9589	1.0538	0.9755	0.9167	1.1114	0.9508
2SRLCS-220W	1.0702	0.8984	1.0402	1.0357	0.9468	1.0202	1.0000	1.0000	1.0000	0.9632	1.0581	0.9798	0.9253	1.1212	0.9595
2SRLCS-250W	1.0701	0.8983	1.0401	1.0356	0.9468	1.0201	1.0000	1.0000	1.0000	0.9633	1.0581	0.9798	0.9255	1.1212	0.9596
2SRLCS-280W	1.0699	0.8983	1.0402	1.0355	0.9468	1.0201	1.0000	1.0000	1.0000	0.9634	1.0581	0.9798	0.9258	1.1212	0.9596
3SRLCS-150W	1.0702	0.8996	1.0395	1.0360	0.9482	1.0202	1.0000	1.0000	1.0000	0.9623	1.0551	0.9790	0.9227	1.1136	0.9571
3SRLCS-180W	1.0699	0.8996	1.0395	1.0358	0.9482	1.0201	1.0000	1.0000	1.0000	0.9625	1.0551	0.9790	0.9232	1.1136	0.9572
3SRLCS-210W	1.0799	0.9056	1.0491	1.0406	0.9510	1.0248	1.0000	1.0000	1.0000	0.9581	1.0526	0.9748	0.9152	1.1090	0.9494
3SRLCS-240W	1.0850	0.9166	1.0551	1.0431	0.9569	1.0278	1.0000	1.0000	1.0000	0.9558	1.0463	0.9719	0.9107	1.0958	0.9436
3SRLCS-270W	1.0783	0.9035	1.0478	1.0398	0.9500	1.0241	1.0000	1.0000	1.0000	0.9589	1.0538	0.9755	0.9167	1.1114	0.9508
4SRLCS-200W	1.0702	0.8996	1.0395	1.0360	0.9482	1.0202	1.0000	1.0000	1.0000	0.9623	1.0551	0.9790	0.9227	1.1136	0.9571
4SRLCS-240W	1.0699	0.8996	1.0395	1.0358	0.9482	1.0201	1.0000	1.0000	1.0000	0.9625	1.0551	0.9790	0.9232	1.1136	0.9572
4SRLCS-280W	1.0799	0.9056	1.0491	1.0406	0.9510	1.0248	1.0000	1.0000	1.0000	0.9581	1.0526	0.9748	0.9152	1.1090	0.9494
4SRLCS-320W	1.0850	0.9166	1.0551	1.0431	0.9569	1.0278	1.0000	1.0000	1.0000	0.9558	1.0463	0.9719	0.9107	1.0958	0.9436
4SRLCS-360W	1.0783	0.9035	1.0478	1.0398	0.9500	1.0241	1.0000	1.0000	1.0000	0.9589	1.0538	0.9755	0.9167	1.1114	0.9508
4SRLCS-440W	1.0702	0.8984	1.0402	1.0357	0.9468	1.0202	1.0000	1.0000	1.0000	0.9632	1.0581	0.9798	0.9253	1.1212	0.9595
4SRLCS-500W	1.0701	0.8983	1.0401	1.0356	0.9468	1.0201	1.0000	1.0000	1.0000	0.9633	1.0581	0.9798	0.9255	1.1212	0.9596
4SRLCS-560W	1.0699	0.8983	1.0402	1.0355	0.9468	1.0201	1.0000	1.0000	1.0000	0.9634	1.0581	0.9798	0.9258	1.1212	0.9596

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 prior notice.

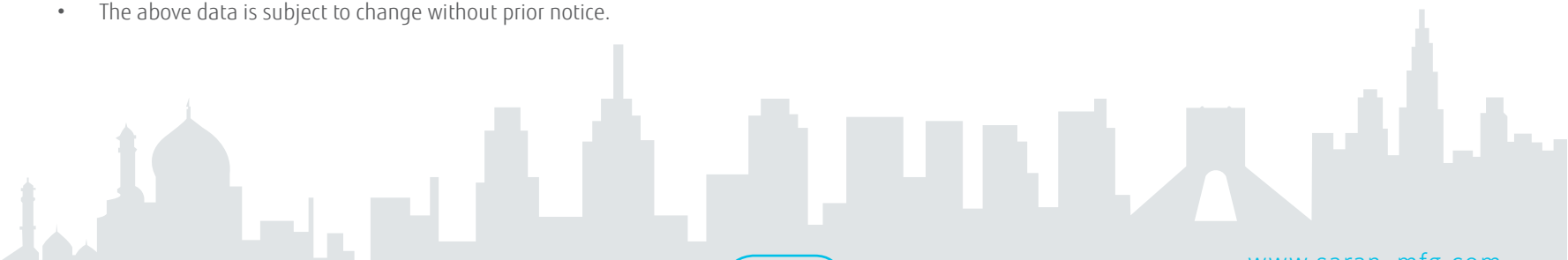
Performance Data (Cont.)

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
1SRLCS-50W	414	27.8	504	424	27.9	514	434	28.0	524	444	28.1	535	454	28.3	546
1SRLCS-60W	487	32.0	591	499	32.1	603	511	32.3	615	523	32.4	628	535	32.6	641
1SRLCS-70W	560	36.3	678	573	36.5	692	587	36.7	706	601	36.9	720	615	37.0	735
1SRLCS-80W	677	44.2	820	692	44.4	836	708	44.6	852	724	44.8	869	740	45.0	886
1SRLCS-90W	779	50.4	943	797	50.6	961	815	50.8	980	834	51.1	999	852	51.3	1019
1SRLCS-110W	920	57.3	1106	941	57.5	1127	962	57.8	1149	984	58.0	1172	1006	58.3	1195
1SRLCS-125W	1015	64.4	1224	1038	64.7	1248	1062	64.9	1272	1085	65.2	1297	1110	65.5	1322
1SRLCS-140W	1156	73.3	1393	1182	73.6	1420	1208	73.9	1448	1235	74.2	1476	1263	74.6	1505
2SRLCS-100W	828	55.5	1008	847	55.8	1028	867	56.0	1049	888	56.3	1070	908	56.5	1092
2SRLCS-120W	975	64.0	1182	998	64.2	1206	1022	64.5	1231	1045	64.8	1256	1070	65.2	1281
2SRLCS-140W	1120	72.7	1356	1147	73.0	1383	1174	73.4	1411	1201	73.7	1440	1229	74.1	1469
2SRLCS-160W	1353	88.5	1640	1384	88.8	1672	1415	89.2	1705	1447	89.6	1738	1480	90.0	1771
2SRLCS-180W	1559	100.8	1886	1594	101.2	1923	1631	101.7	1960	1667	102.1	1998	1705	102.6	2037
2SRLCS-220W	1840	114.5	2211	1882	115.0	2255	1925	115.5	2299	1968	116.0	2344	2012	116.5	2390
2SRLCS-250W	2031	128.8	2448	2077	129.3	2496	2123	129.9	2544	2171	130.4	2594	2219	131.0	2644
2SRLCS-280W	2311	146.6	2787	2364	147.2	2841	2417	147.8	2896	2471	148.5	2952	2526	149.1	3009
3SRLCS-150W	1241	83.3	1511	1271	83.6	1542	1301	84.0	1573	1331	84.4	1605	1363	84.8	1637
3SRLCS-180W	1462	95.9	1773	1497	96.4	1809	1532	96.8	1846	1568	97.3	1884	1605	97.7	1922
3SRLCS-210W	1680	109.0	2034	1720	109.5	2075	1761	110.0	2117	1802	110.6	2160	1844	111.1	2204
3SRLCS-240W	2030	132.7	2460	2076	133.3	2508	2123	133.8	2557	2171	134.4	2607	2220	135.0	2657
3SRLCS-270W	2338	151.2	2829	2392	151.9	2884	2446	152.5	2940	2501	153.2	2998	2557	153.8	3056
4SRLCS-200W	1655	111.0	2015	1695	111.5	2056	1735	112.0	2098	1775	112.6	2140	1817	113.1	2183
4SRLCS-240W	1950	127.9	2365	1996	128.5	2413	2043	129.1	2462	2091	129.7	2511	2140	130.3	2562
4SRLCS-280W	2240	145.4	2712	2293	146.0	2767	2347	146.7	2823	2402	147.4	2880	2458	148.1	2938
4SRLCS-320W	2706	176.9	3280	2768	177.7	3344	2831	178.4	3409	2895	179.2	3475	2959	180.0	3543
4SRLCS-360W	3118	201.6	3772	3189	202.5	3845	3261	203.3	3920	3335	204.2	3997	3409	205.1	4074
4SRLCS-440W	3680	229.1	4422	3764	230.1	4509	3849	231.0	4598	3936	232.0	4688	4024	233.0	4780
4SRLCS-500W	4061	257.5	4896	4153	258.6	4991	4247	259.7	5088	4342	260.8	5187	4438	262.0	5287
4SRLCS-560W	4623	293.2	5573	4727	294.4	5682	4834	295.6	5792	4942	296.9	5904	5052	298.2	6019

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 7).
- 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 prior notice.



Performance Data (Cont.)

Table 11b: Performance Correction Factors (Screw Compressor) - R134a

Models	Condenser Leaving Water Temperature														
	85°F			90°F			95°F			100°F			105°F		
	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC	QE	WC	QC
1SRLCS-50W	1.0680	0.9047	1.0397	1.0347	0.9505	1.0201	1.0000	1.0000	1.0000	0.9640	1.0534	0.9795	0.9268	1.1111	0.9587
1SRLCS-60W	1.0676	0.9047	1.0399	1.0345	0.9505	1.0202	1.0000	1.0000	1.0000	0.9642	1.0534	0.9794	0.9273	1.1111	0.9586
1SRLCS-70W	1.0674	0.9047	1.0400	1.0344	0.9505	1.0202	1.0000	1.0000	1.0000	0.9643	1.0534	0.9794	0.9276	1.1111	0.9585
1SRLCS-80W	1.0598	0.9062	1.0337	1.0303	0.9511	1.0169	1.0000	1.0000	1.0000	0.9689	1.0532	0.9832	0.9369	1.1112	0.9665
1SRLCS-90W	1.0597	0.9062	1.0339	1.0303	0.9511	1.0170	1.0000	1.0000	1.0000	0.9689	1.0532	0.9831	0.9371	1.1112	0.9664
1SRLCS-110W	1.0595	0.9062	1.0345	1.0307	0.9511	1.0177	1.0000	1.0000	1.0000	0.9677	1.0532	0.9816	0.9340	1.1112	0.9628
1SRLCS-125W	1.0627	0.9062	1.0368	1.0318	0.9511	1.0184	1.0000	1.0000	1.0000	0.9675	1.0532	0.9817	0.9342	1.1112	0.9635
1SRLCS-140W	1.0627	0.9062	1.0368	1.0318	0.9511	1.0184	1.0000	1.0000	1.0000	0.9675	1.0532	0.9817	0.9342	1.1112	0.9635
2SRLCS-100W	1.0680	0.9047	1.0397	1.0347	0.9505	1.0201	1.0000	1.0000	1.0000	0.9640	1.0534	0.9795	0.9268	1.1111	0.9587
2SRLCS-120W	1.0676	0.9047	1.0399	1.0345	0.9505	1.0202	1.0000	1.0000	1.0000	0.9642	1.0534	0.9794	0.9273	1.1111	0.9586
2SRLCS-140W	1.0674	0.9047	1.0400	1.0344	0.9505	1.0202	1.0000	1.0000	1.0000	0.9643	1.0534	0.9794	0.9276	1.1111	0.9585
2SRLCS-160W	1.0598	0.9062	1.0337	1.0303	0.9511	1.0169	1.0000	1.0000	1.0000	0.9689	1.0532	0.9832	0.9369	1.1112	0.9665
2SRLCS-180W	1.0597	0.9062	1.0339	1.0303	0.9511	1.0170	1.0000	1.0000	1.0000	0.9689	1.0532	0.9831	0.9371	1.1112	0.9664
2SRLCS-220W	1.0595	0.9062	1.0345	1.0307	0.9511	1.0177	1.0000	1.0000	1.0000	0.9677	1.0532	0.9816	0.9340	1.1112	0.9628
2SRLCS-250W	1.0627	0.9062	1.0368	1.0318	0.9511	1.0184	1.0000	1.0000	1.0000	0.9675	1.0532	0.9817	0.9342	1.1112	0.9635
2SRLCS-280W	1.0627	0.9062	1.0368	1.0318	0.9511	1.0184	1.0000	1.0000	1.0000	0.9675	1.0532	0.9817	0.9342	1.1112	0.9635
3SRLCS-150W	1.0680	0.9047	1.0397	1.0347	0.9505	1.0201	1.0000	1.0000	1.0000	0.9640	1.0534	0.9795	0.9268	1.1111	0.9587
3SRLCS-180W	1.0676	0.9047	1.0399	1.0345	0.9505	1.0202	1.0000	1.0000	1.0000	0.9642	1.0534	0.9794	0.9273	1.1111	0.9586
3SRLCS-210W	1.0674	0.9047	1.0400	1.0344	0.9505	1.0202	1.0000	1.0000	1.0000	0.9643	1.0534	0.9794	0.9276	1.1111	0.9585
3SRLCS-240W	1.0598	0.9062	1.0337	1.0303	0.9511	1.0169	1.0000	1.0000	1.0000	0.9689	1.0532	0.9832	0.9369	1.1112	0.9665
3SRLCS-270W	1.0597	0.9062	1.0339	1.0303	0.9511	1.0170	1.0000	1.0000	1.0000	0.9689	1.0532	0.9831	0.9371	1.1112	0.9664
4SRLCS-200W	1.0680	0.9047	1.0397	1.0347	0.9505	1.0201	1.0000	1.0000	1.0000	0.9640	1.0534	0.9795	0.9268	1.1111	0.9587
4SRLCS-240W	1.0676	0.9047	1.0399	1.0345	0.9505	1.0202	1.0000	1.0000	1.0000	0.9642	1.0534	0.9794	0.9273	1.1111	0.9586
4SRLCS-280W	1.0674	0.9047	1.0400	1.0344	0.9505	1.0202	1.0000	1.0000	1.0000	0.9643	1.0534	0.9794	0.9276	1.1111	0.9585
4SRLCS-320W	1.0598	0.9062	1.0337	1.0303	0.9511	1.0169	1.0000	1.0000	1.0000	0.9689	1.0532	0.9832	0.9369	1.1112	0.9665
4SRLCS-360W	1.0597	0.9062	1.0339	1.0303	0.9511	1.0170	1.0000	1.0000	1.0000	0.9689	1.0532	0.9831	0.9371	1.1112	0.9664
4SRLCS-440W	1.0595	0.9062	1.0345	1.0307	0.9511	1.0177	1.0000	1.0000	1.0000	0.9677	1.0532	0.9816	0.9340	1.1112	0.9628
4SRLCS-500W	1.0627	0.9062	1.0368	1.0318	0.9511	1.0184	1.0000	1.0000	1.0000	0.9675	1.0532	0.9817	0.9342	1.1112	0.9635
4SRLCS-560W	1.0627	0.9062	1.0368	1.0318	0.9511	1.0184	1.0000	1.0000	1.0000	0.9675	1.0532	0.9817	0.9342	1.1112	0.9635

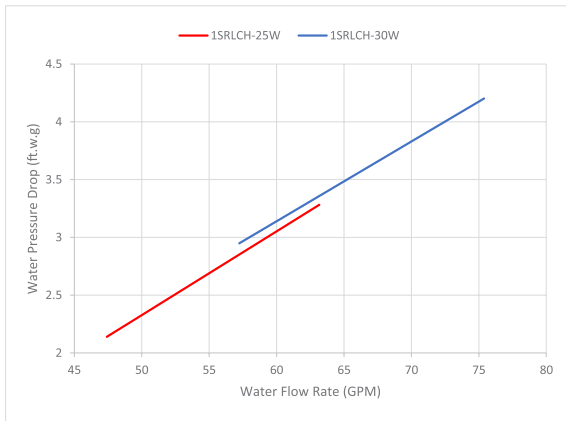
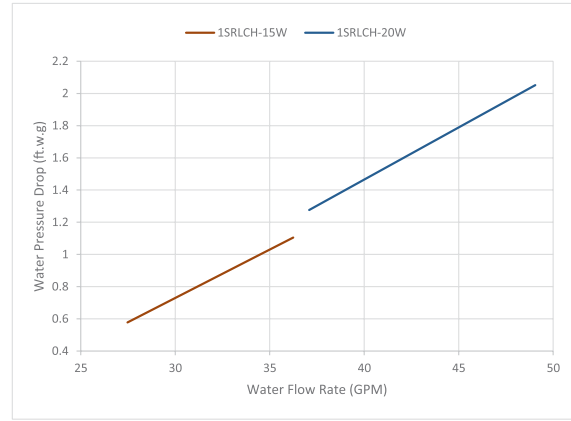
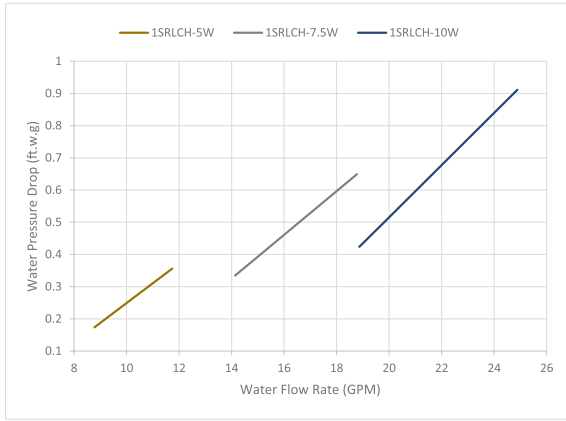
NOTE

- 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 prior notice.

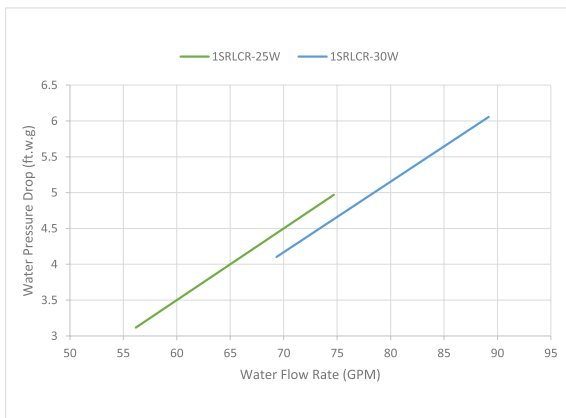
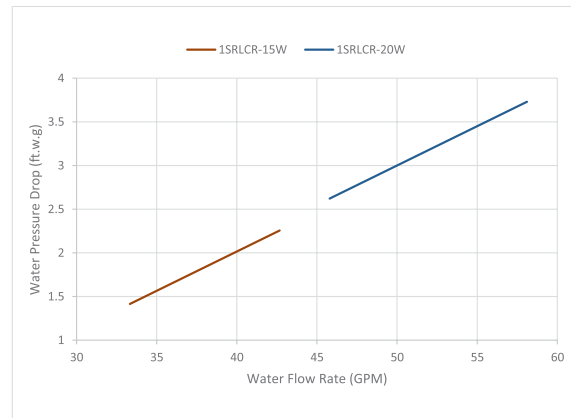
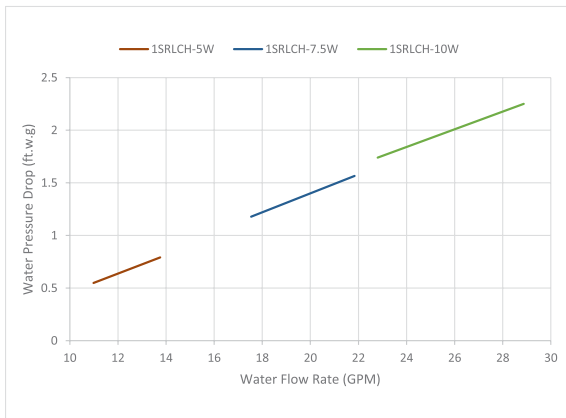
Evaporator/Condenser Pressure Drop

Scroll Compressors Chillers (One Circuit)

Evaporator Pressure Drop (Scroll Compressor - R22 & R407C)



Condenser Pressure Drop (Scroll Compressor - R22 & R407C)



NOTE

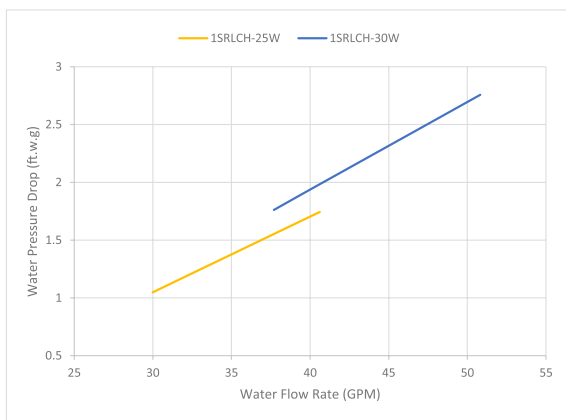
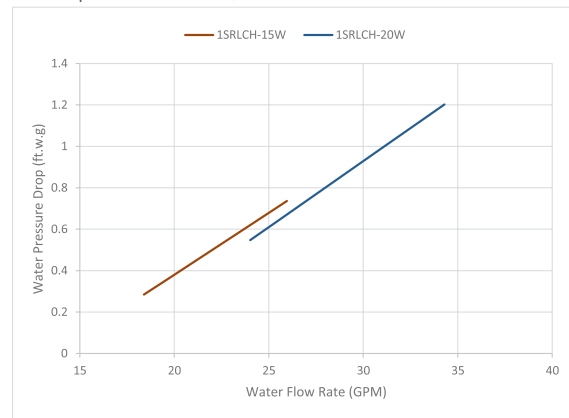
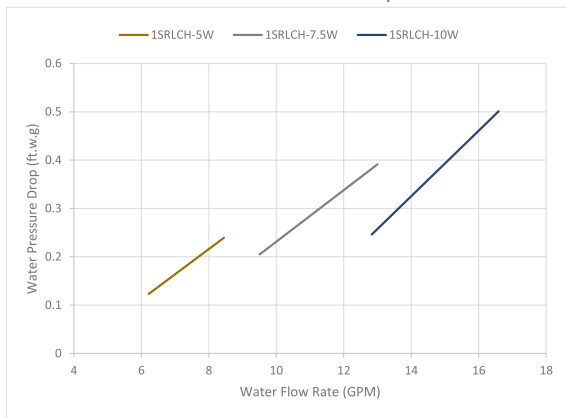
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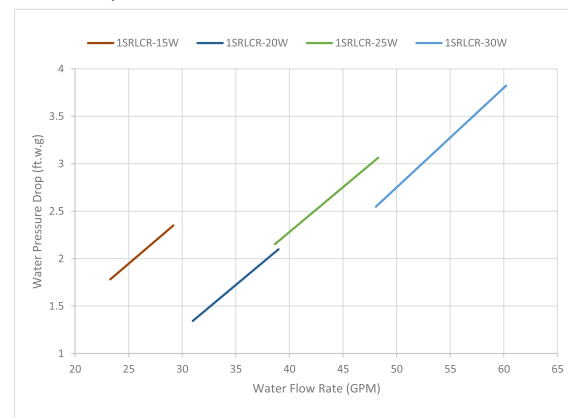
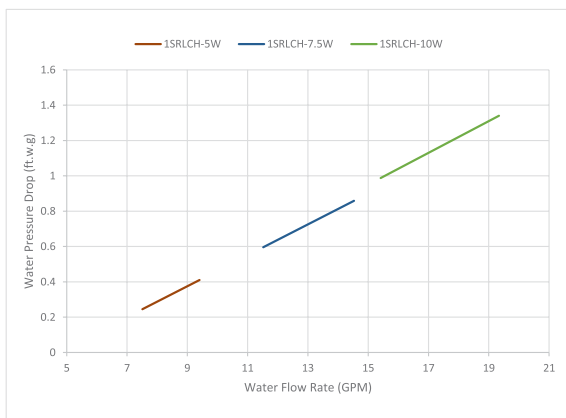
Evaporator/Condenser Pressure Drop (Cont.)

Scroll Compressors Chillers (One Circuit)

Evaporator Pressure Drop (Scroll Compressor - R134a)



Condenser Pressure Drop (Scroll Compressor - R134a)



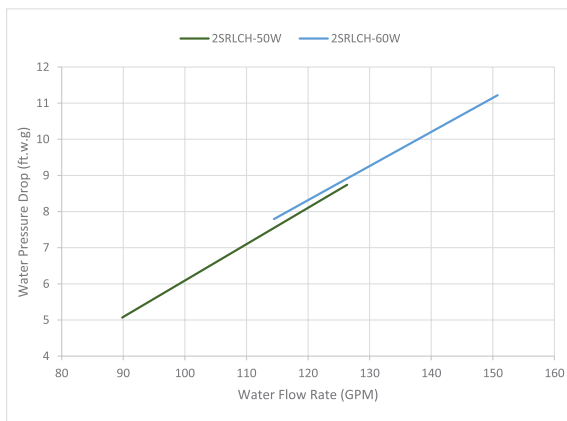
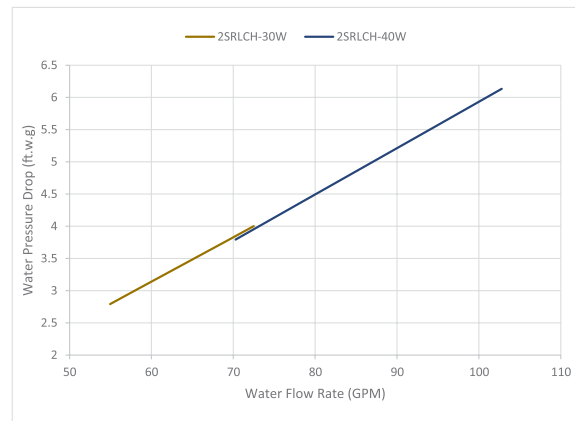
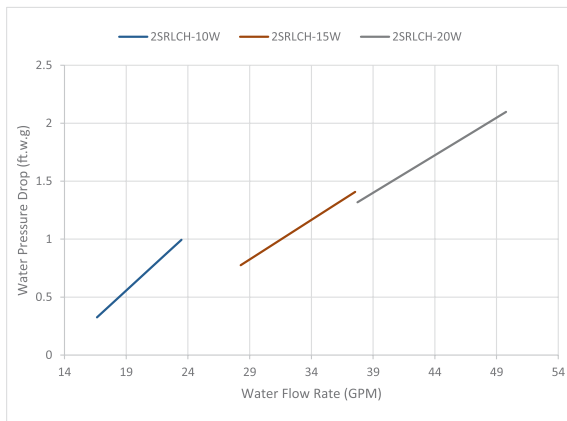
NOTE

- The above data is subject to change without prior notice.

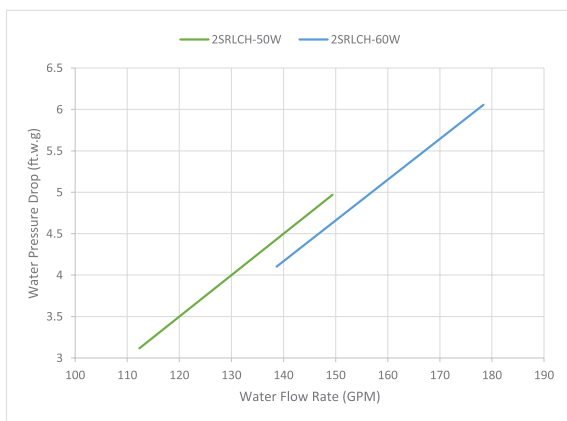
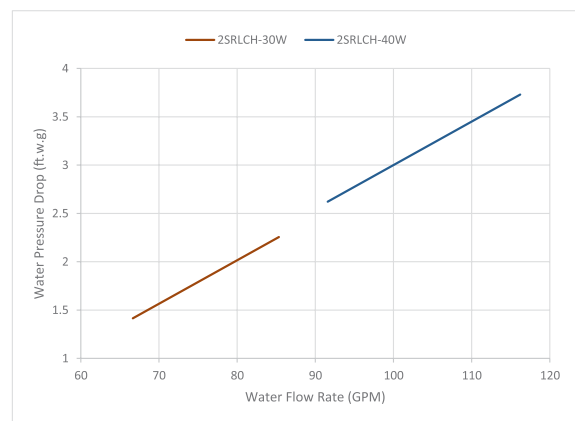
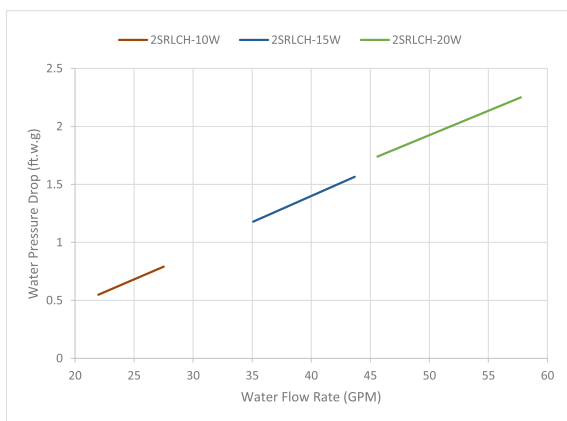
Evaporator/Condenser Pressure Drop (Cont.)

Scroll Compressors Chillers (Two Circuits)

Evaporator Pressure Drop (Scroll Compressor - R22 & R407C)



Condenser Pressure Drop (Scroll Compressor - R22 & R407C)



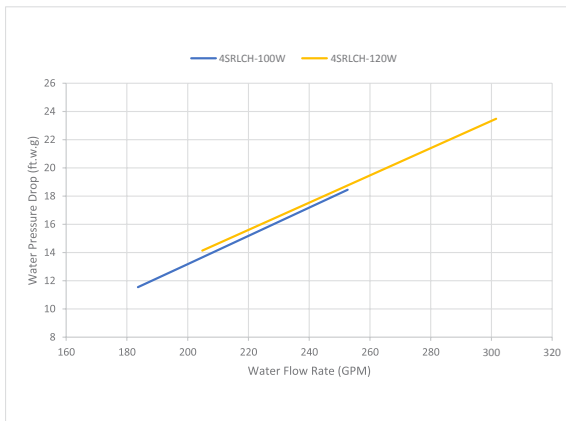
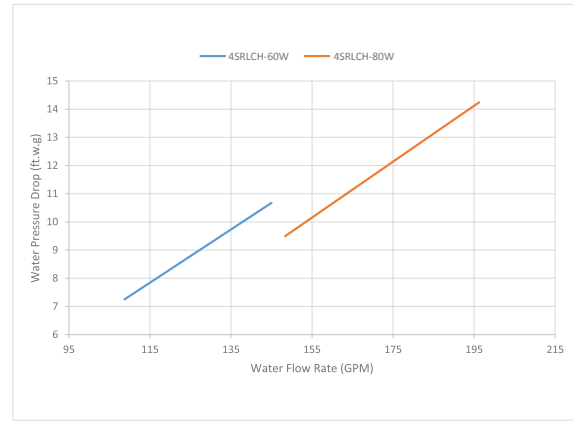
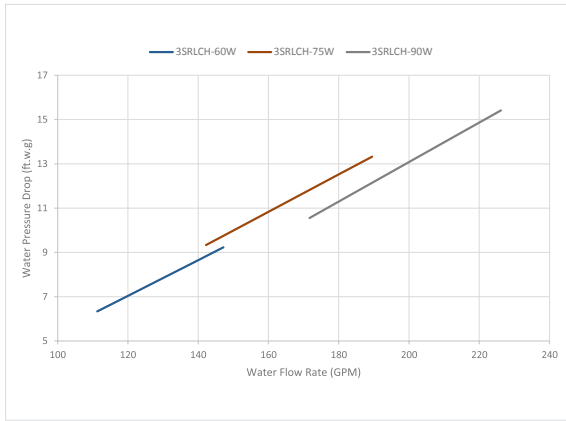
NOTE

- The above data is subject to change without prior notice.

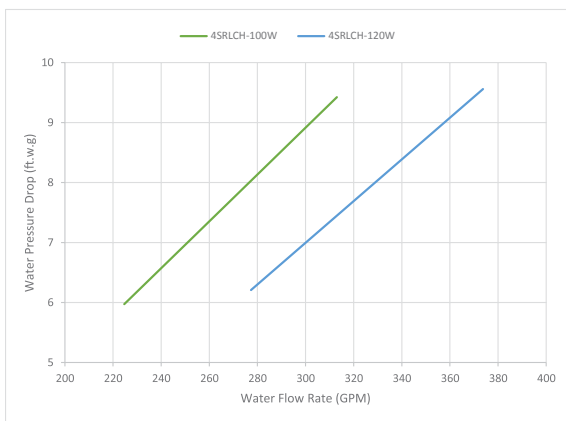
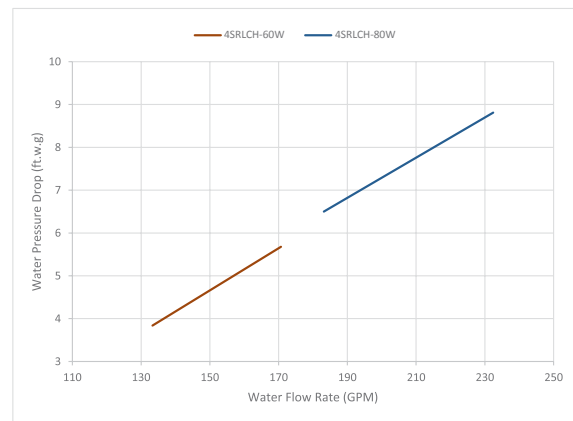
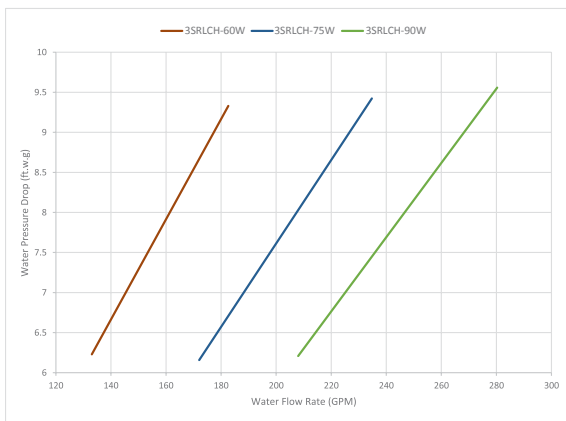
Evaporator/Condenser Pressure Drop (Cont.)

Scroll Compressors Chillers (Two Circuits)

Evaporator Pressure Drop (Scroll Compressor - R22 & R407C)



Condenser Pressure Drop (Scroll Compressor - R22 & R407C)



NOTE

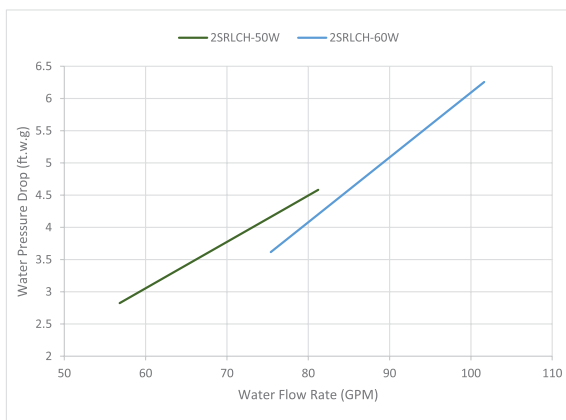
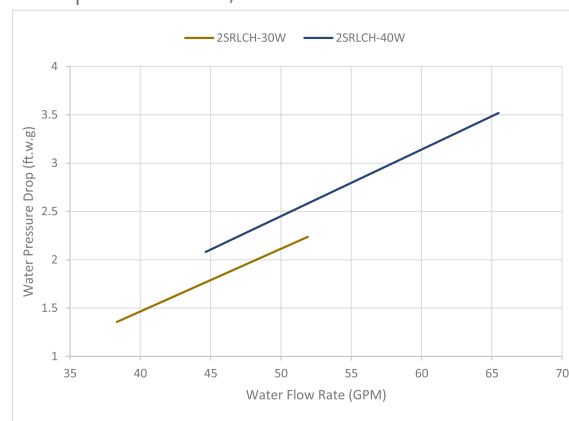
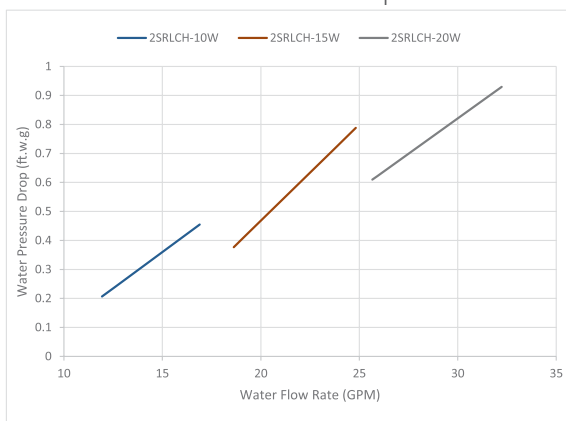
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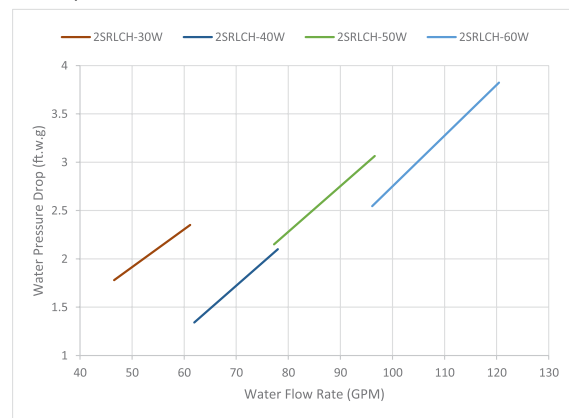
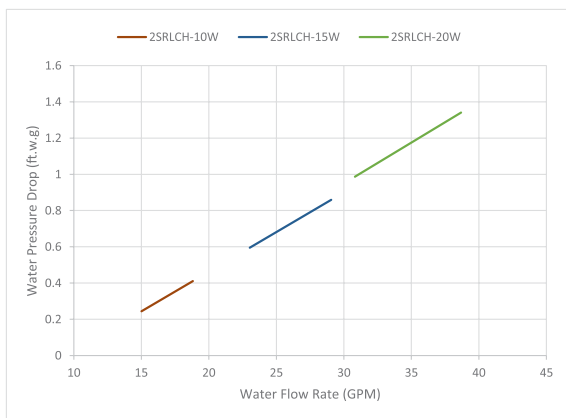
Evaporator/Condenser Pressure Drop (Cont.)

Scroll Compressor Chillers (Two Circuits)

Evaporator Pressure Drop (Scroll Compressor - R134a)



Condenser Pressure Drop (Scroll Compressor - R134a)



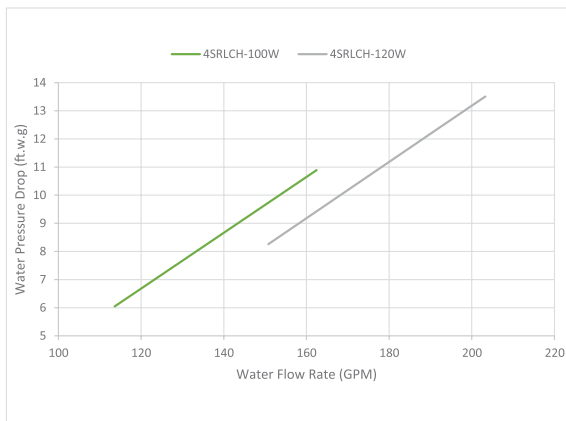
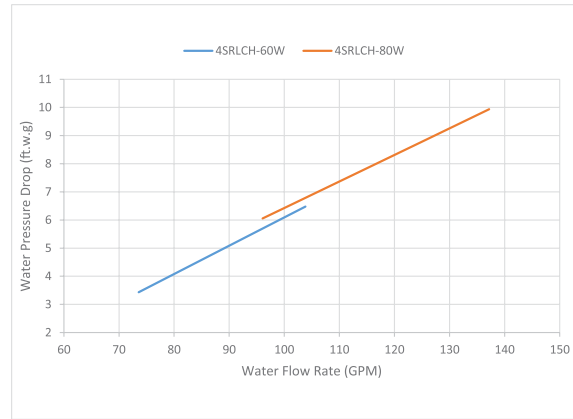
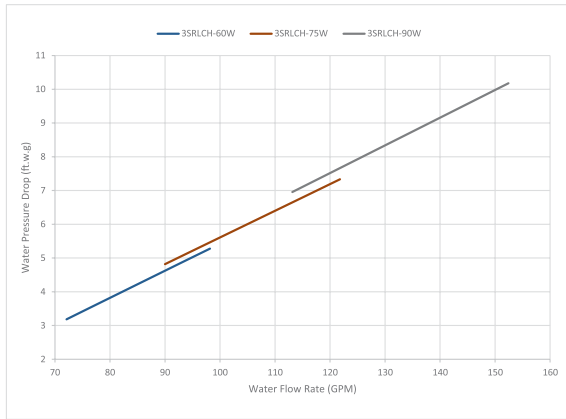
NOTE

- The above data is subject to change without prior notice.

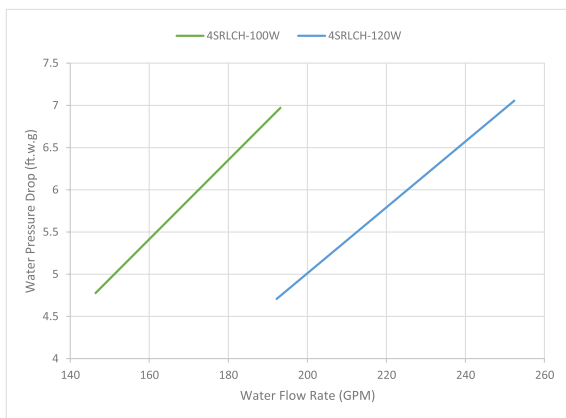
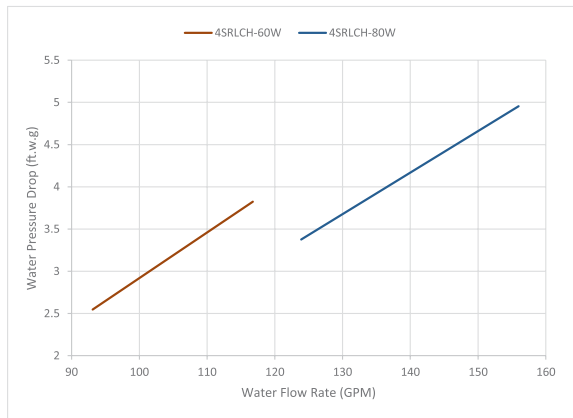
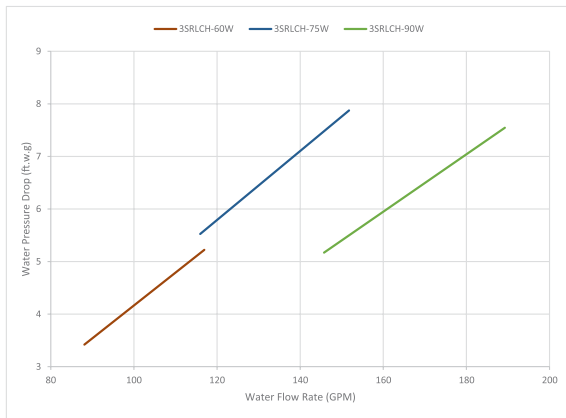
Evaporator/Condenser Pressure Drop (Cont.)

Scroll Compressors Chillers (Two Circuits)

Evaporator Pressure Drop (Scroll Compressor - R134a)



Condenser Pressure Drop (Scroll Compressor - R134a)



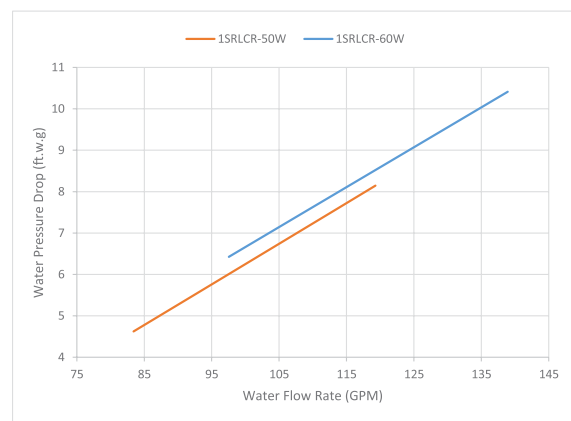
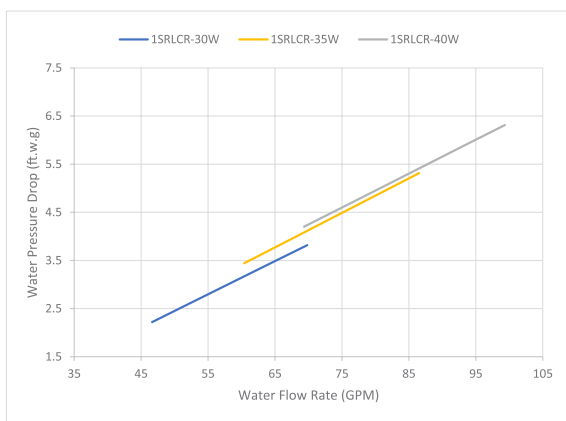
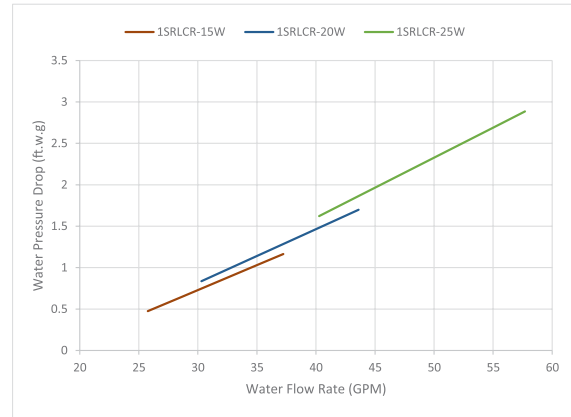
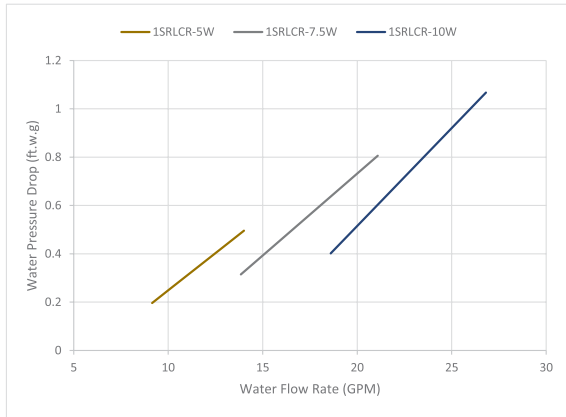
NOTE

- The above data is subject to change without prior notice.

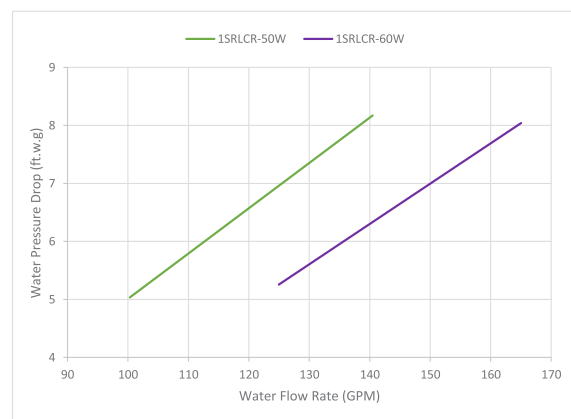
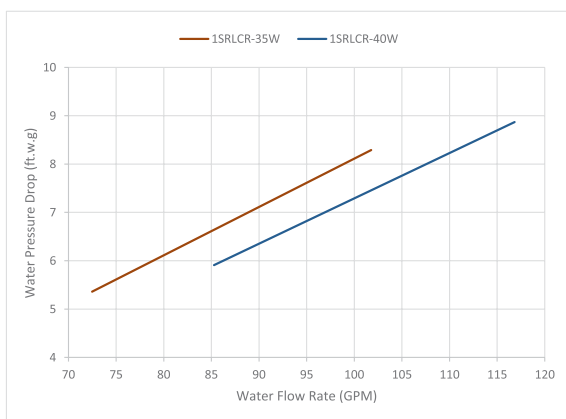
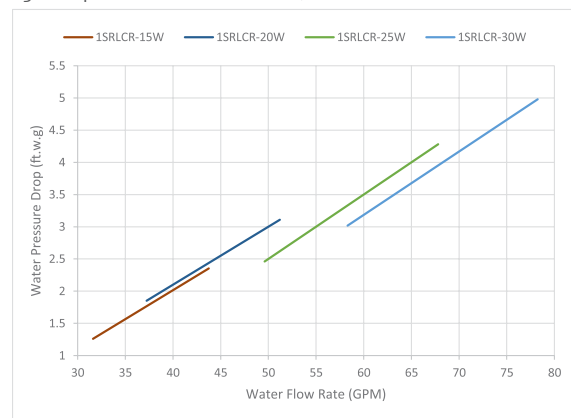
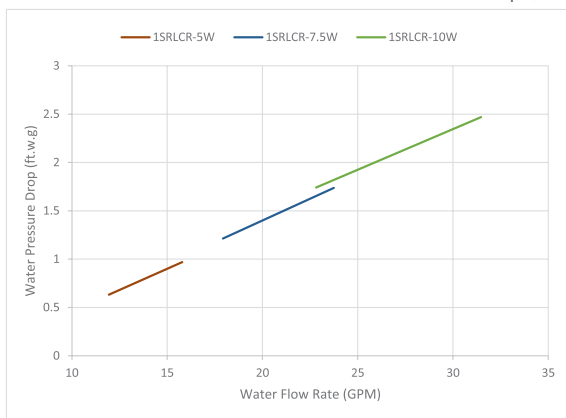
Evaporator/Condenser Pressure Drop (Cont.)

Reciprocating Compressors Chillers (One Circuit)

Evaporator Pressure Drop (Reciprocating Compressor - R22 & R407C)



Condenser Pressure Drop (Reciprocating Compressor - R22 & R407C)



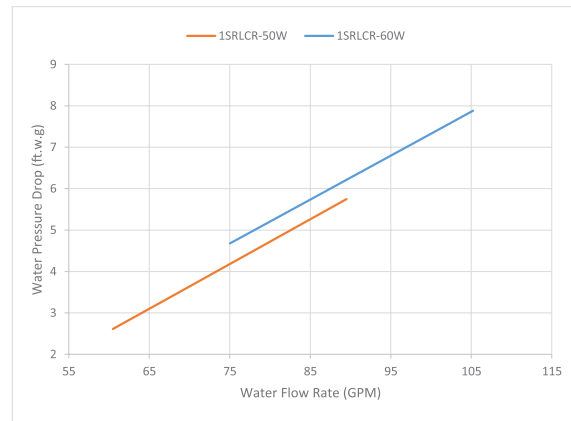
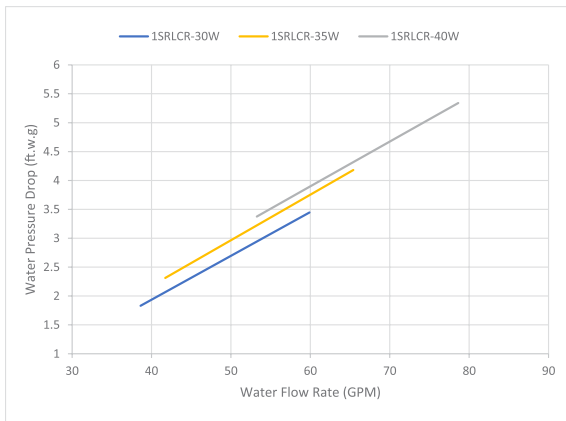
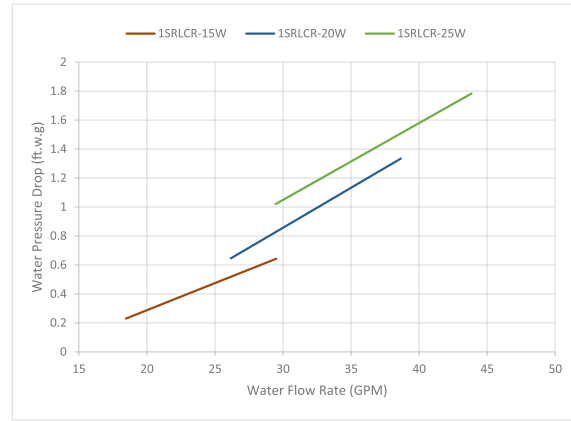
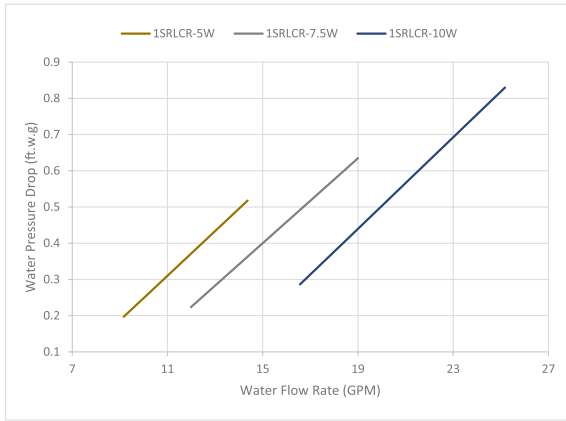
NOTE

- The above data is subject to change without prior notice.

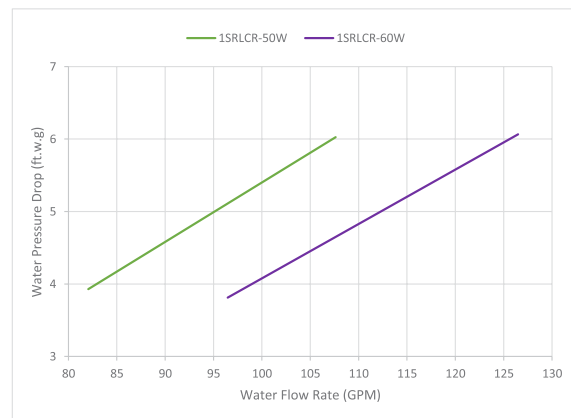
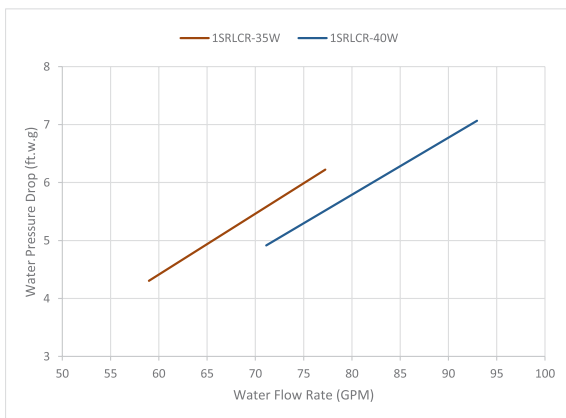
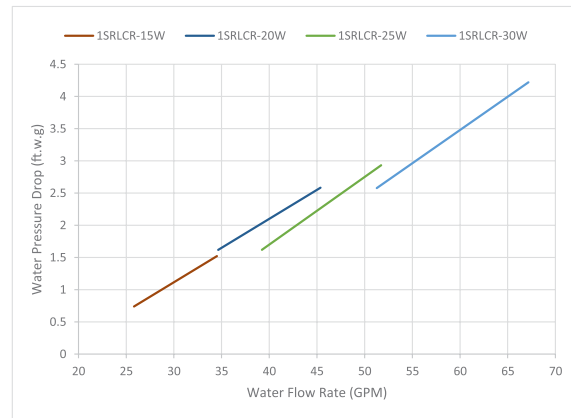
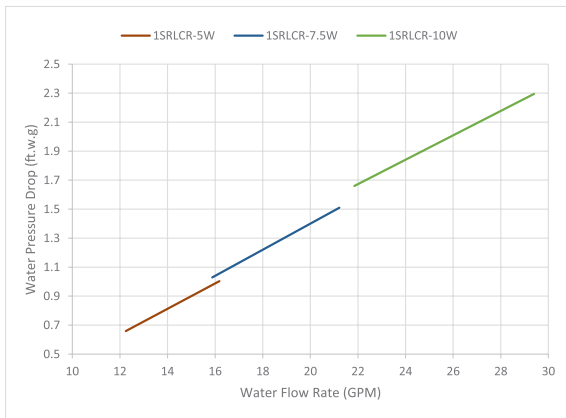
Evaporator/Condenser Pressure Drop

Reciprocating Compressors Chillers (One Circuit)

Evaporator Pressure Drop (Reciprocating Compressor - R134a)



Condenser Pressure Drop (Reciprocating Compressor - R134a)



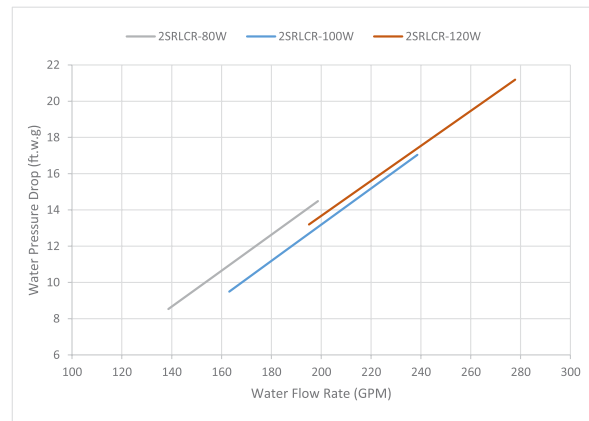
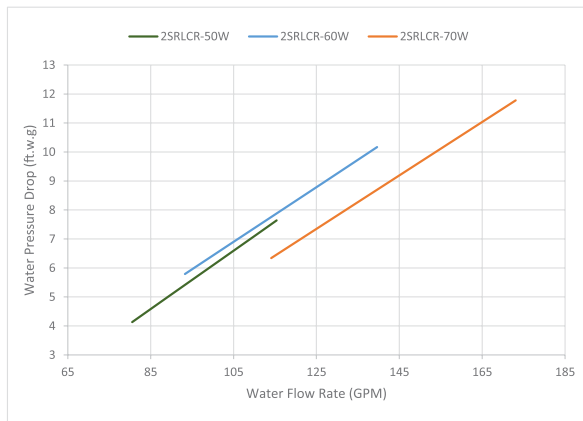
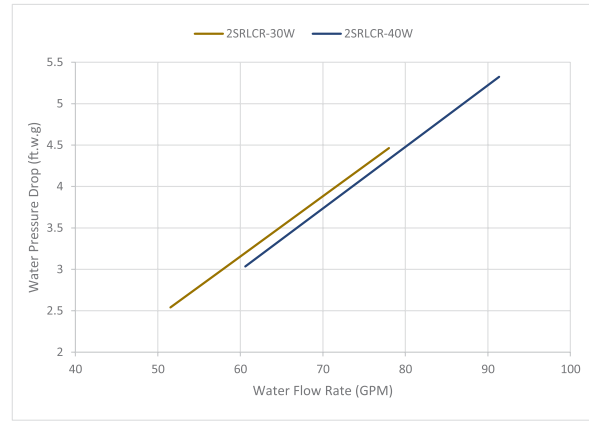
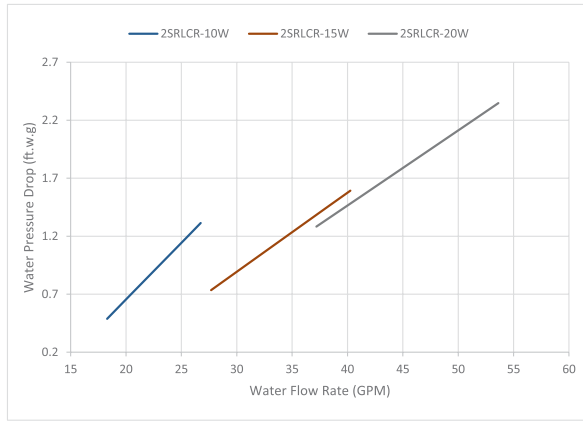
NOTE

- The above data is subject to change without prior notice.

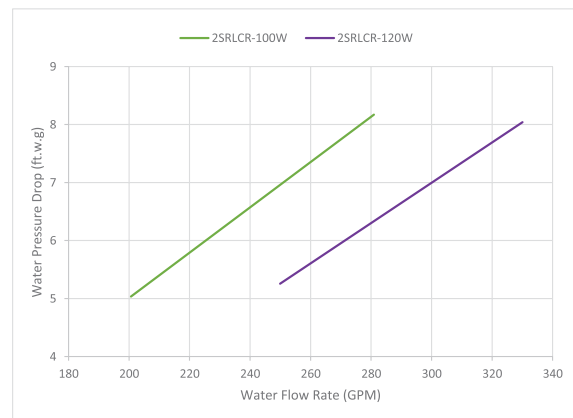
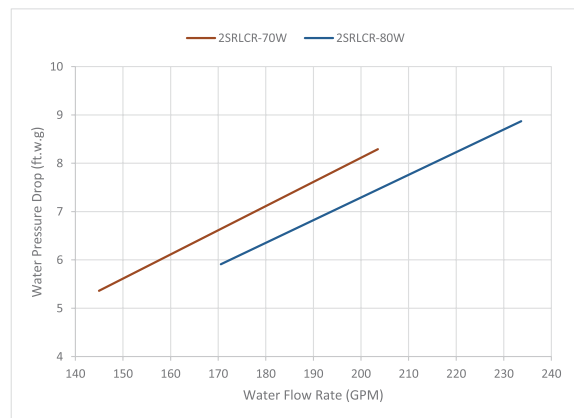
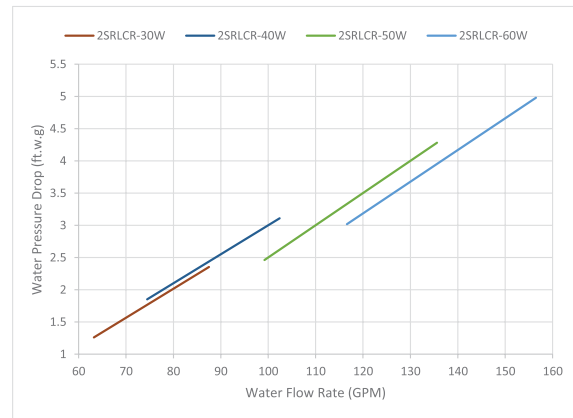
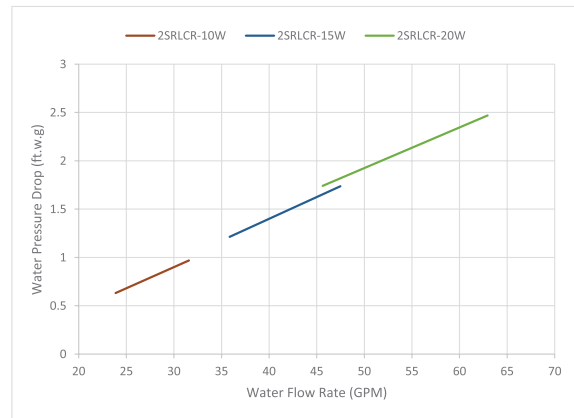
Evaporator/Condenser Pressure Drop

Reciprocating Compressors Chillers (Two Circuits)

Evaporator Pressure Drop (Reciprocating Compressor - R22 & R407C)



Condenser Pressure Drop (Reciprocating Compressor - R22 & R407C)



NOTE

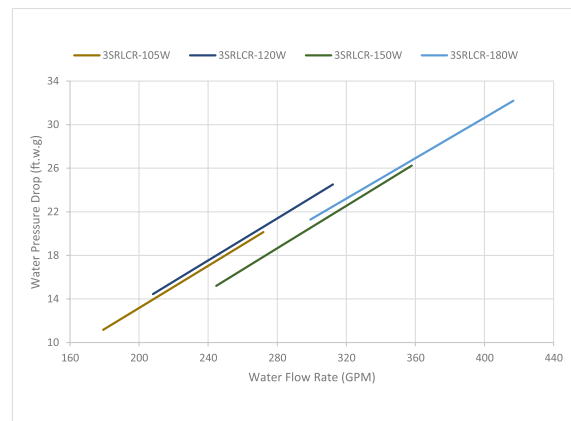
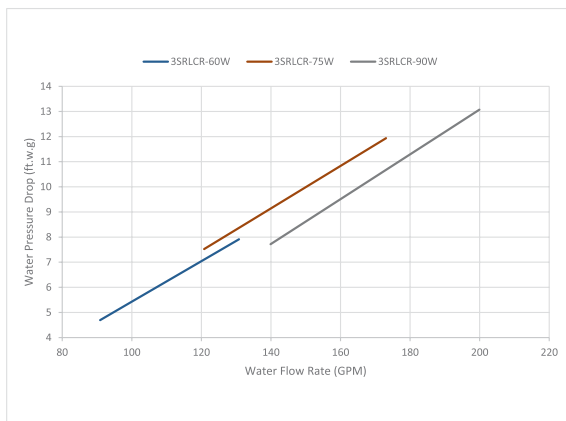
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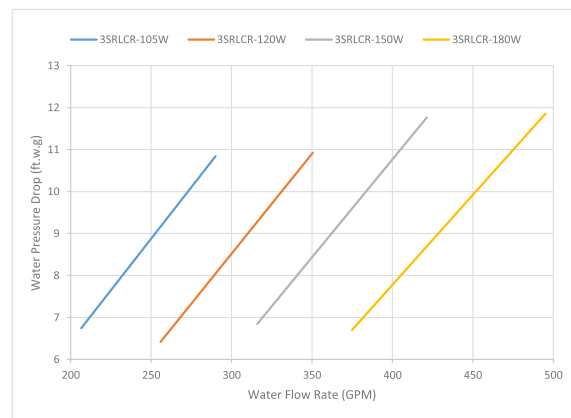
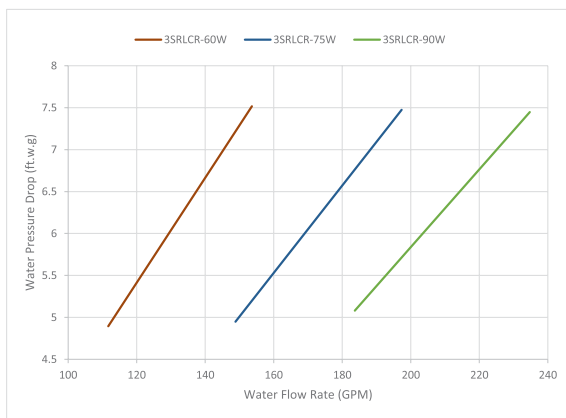
Evaporator/Condenser Pressure Drop

Reciprocating Compressors Chillers (Two Circuits)

Evaporator Pressure Drop (Reciprocating Compressor - R22 & R407C)



Condenser Pressure Drop (Reciprocating Compressor - R22 & R407C)



NOTE

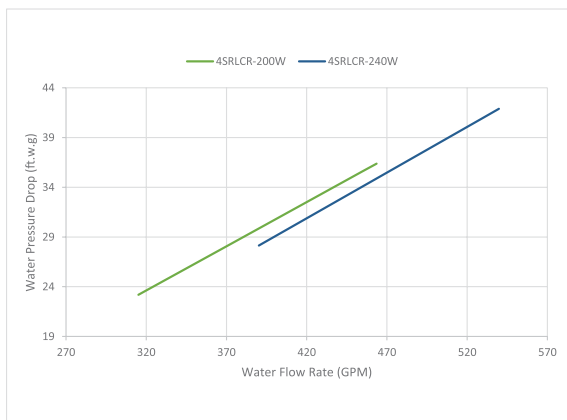
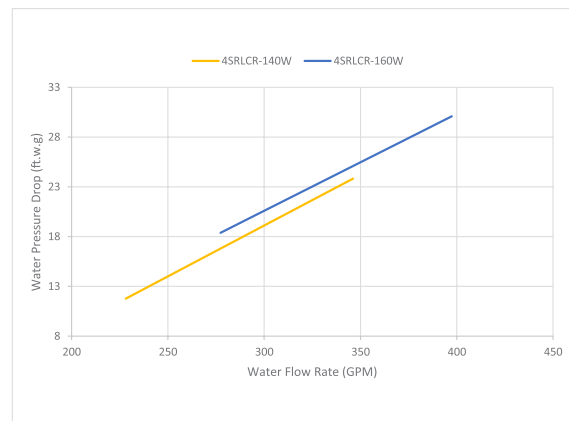
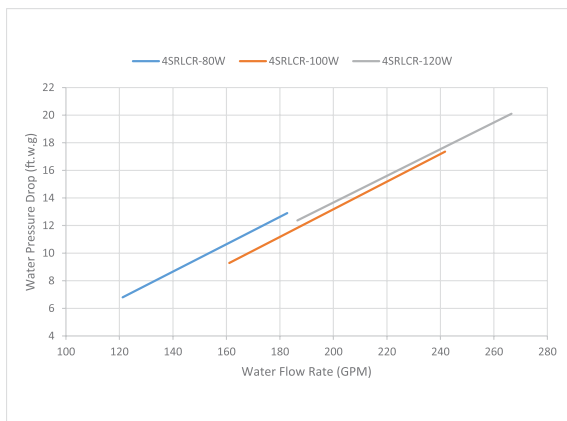
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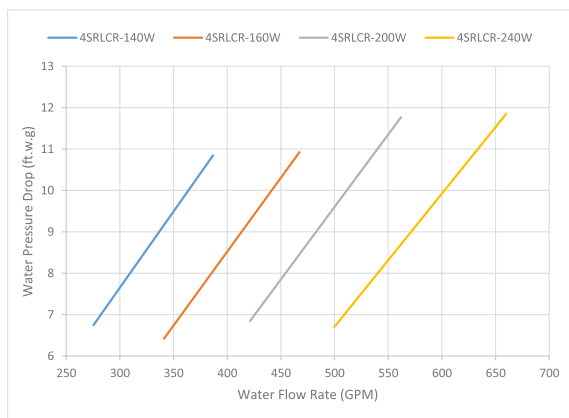
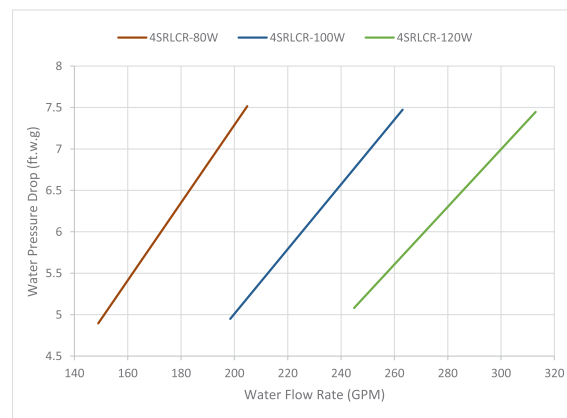
Evaporator/Condenser Pressure Drop

Reciprocating Compressors Chillers (Two Circuits)

Evaporator Pressure Drop (Reciprocating Compressor - R22 & R407C)



Condenser Pressure Drop (Reciprocating Compressor - R22 & R407C)



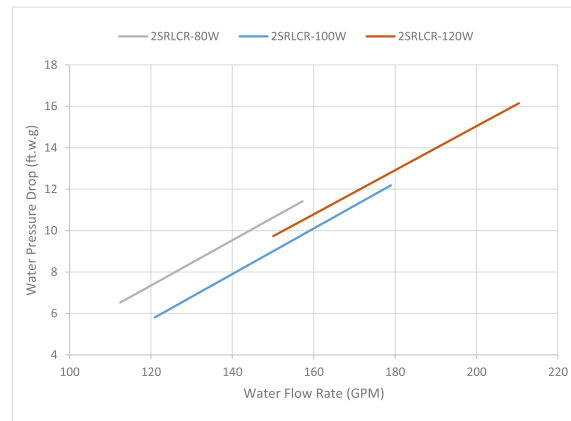
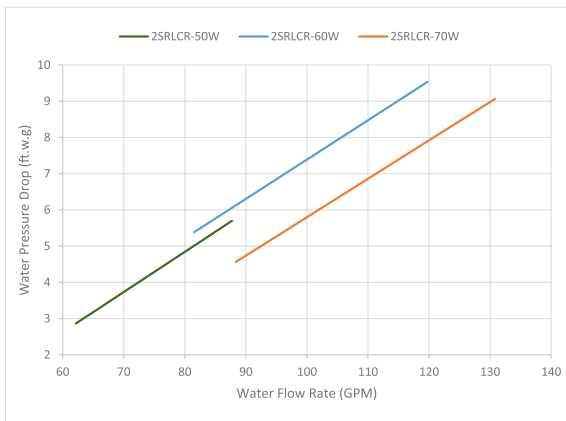
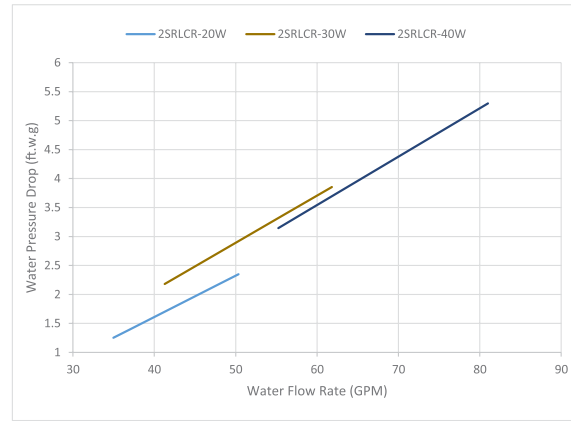
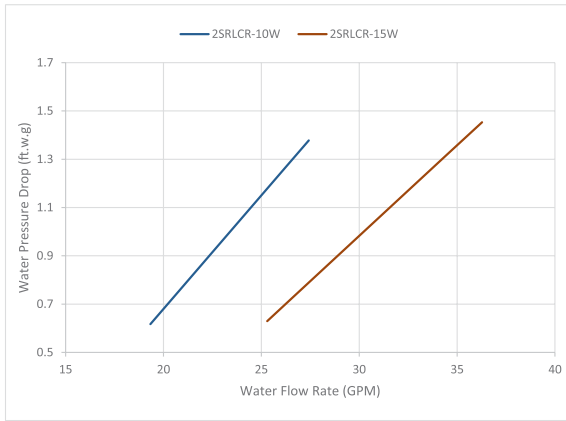
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- The above data is subject to change without prior notice.

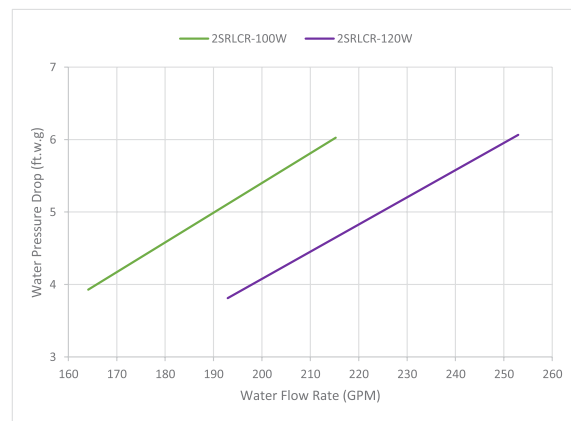
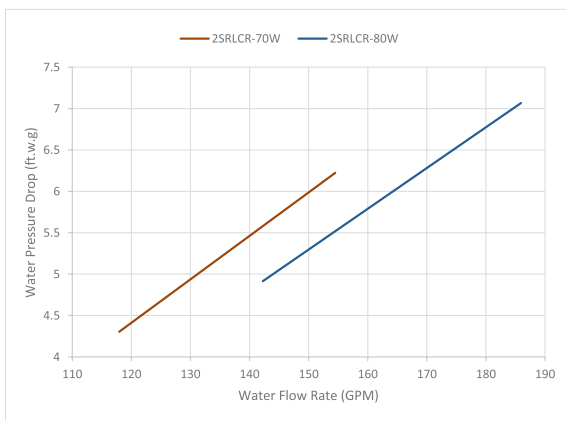
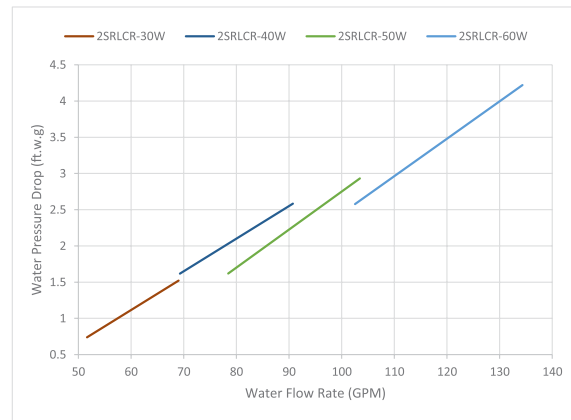
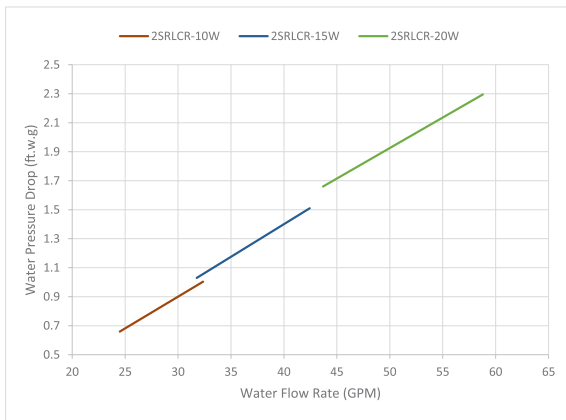
Evaporator/Condenser Pressure Drop

Reciprocating Compressors Chillers (Two Circuits)

Evaporator Pressure Drop (Reciprocating Compressor - R134a)



Condenser Pressure Drop (Reciprocating Compressor - R134a)



NOTE

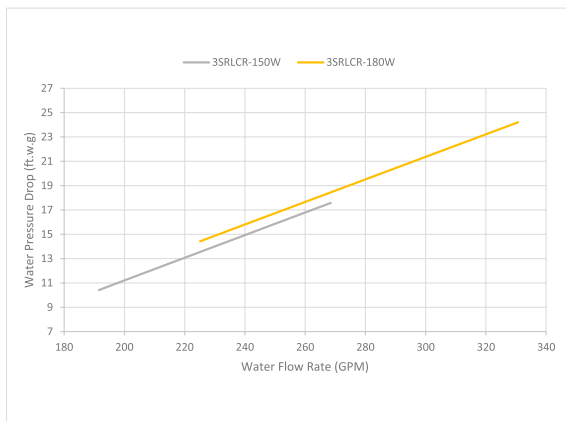
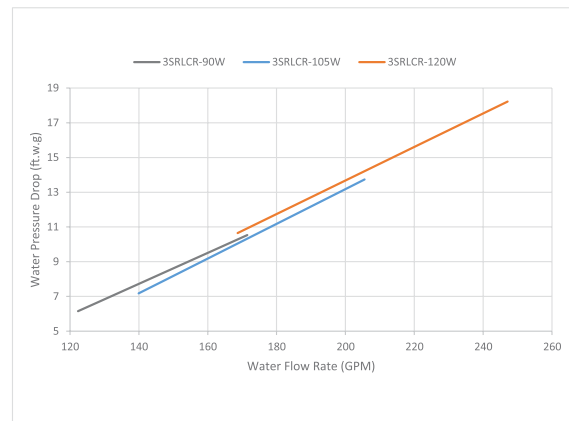
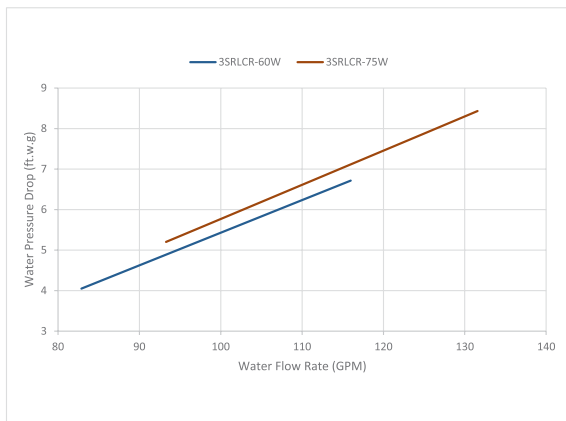
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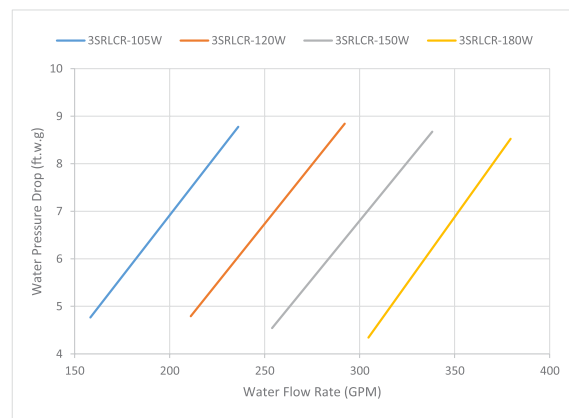
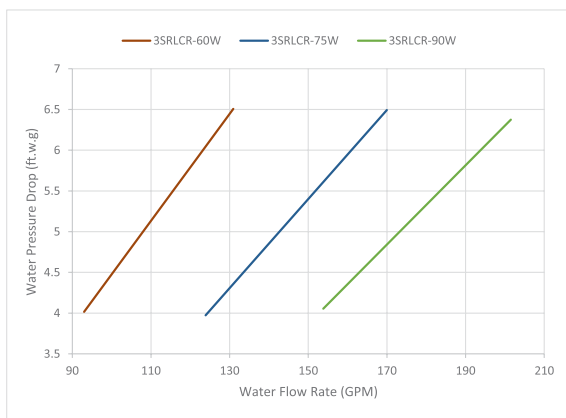
Evaporator/Condenser Pressure Drop

Reciprocating Compressor Chillers (Two Circuits)

Evaporator Pressure Drop (Reciprocating Compressor - R134a)



Condenser Pressure Drop (Reciprocating Compressor - R134a)



NOTE

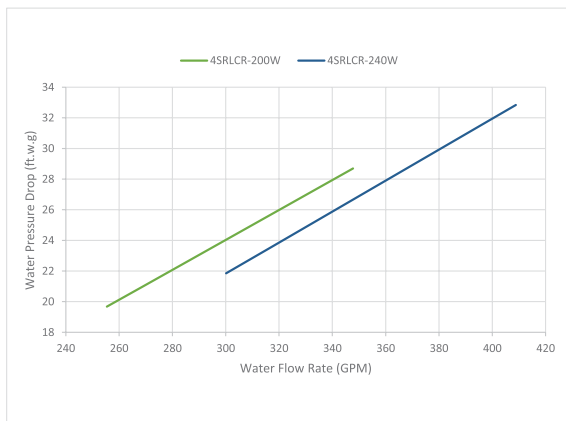
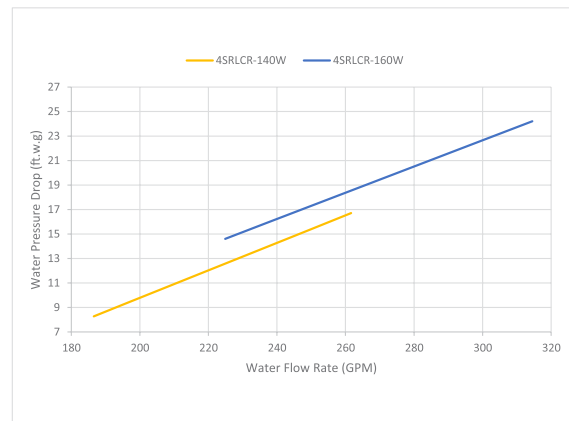
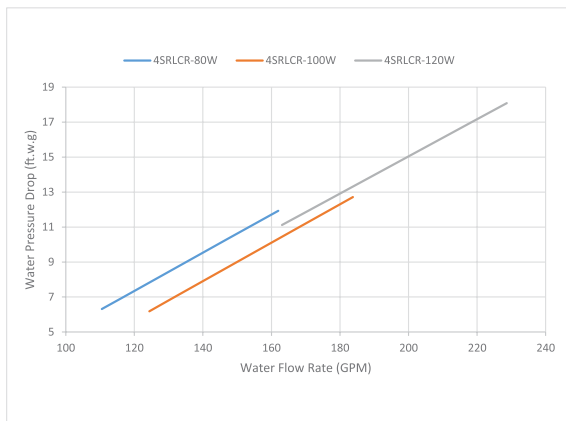
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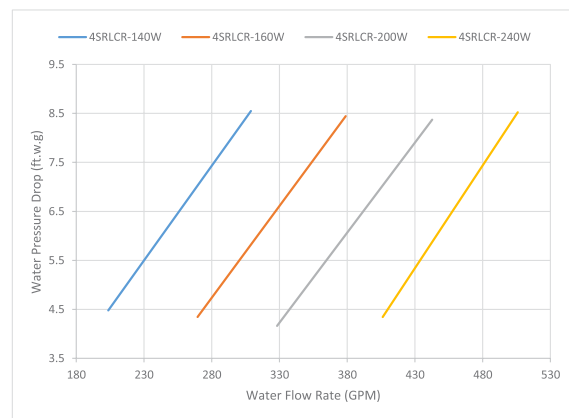
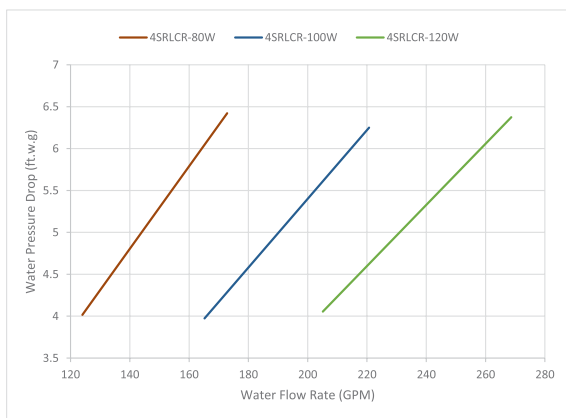
Evaporator/Condenser Pressure Drop

Reciprocating Compressors Chillers (Two Circuits)

Evaporator Pressure Drop (Reciprocating Compressor - R134a)



Condenser Pressure Drop (Reciprocating Compressor - R134a)



NOTE

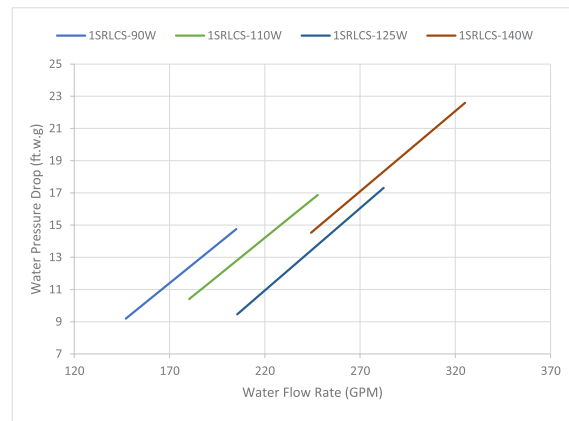
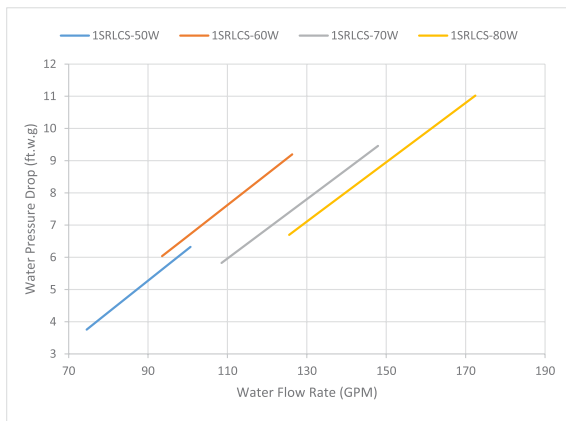
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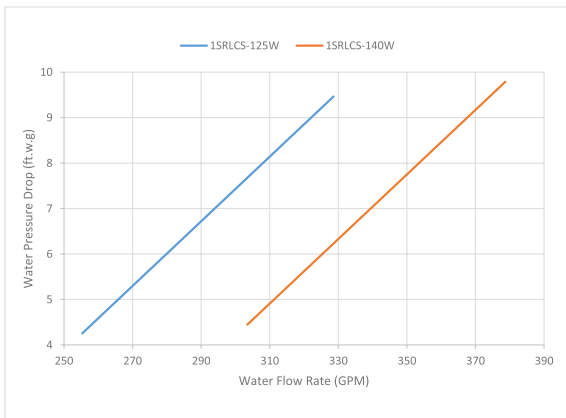
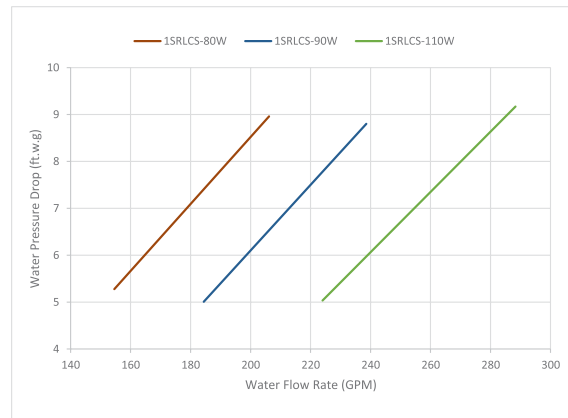
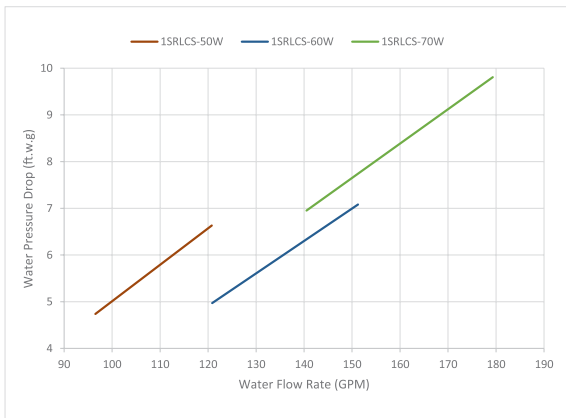
Evaporator/Condenser Pressure Drop

Screw Compressors Chillers (One Circuit)

Evaporator Pressure Drop (Screw Compressor - R22 & R407C)



Condensator Pressure Drop (Screw Compressor - R22 & R407C)



NOTE

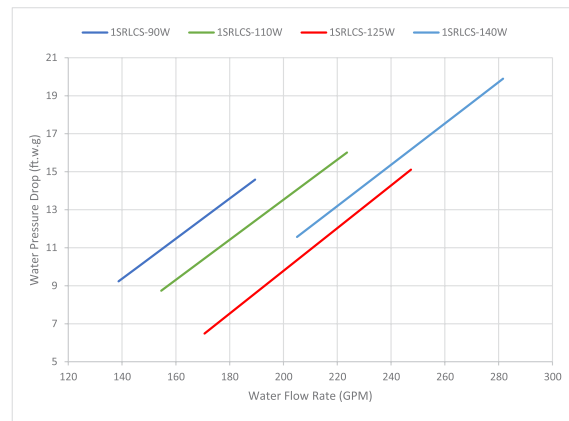
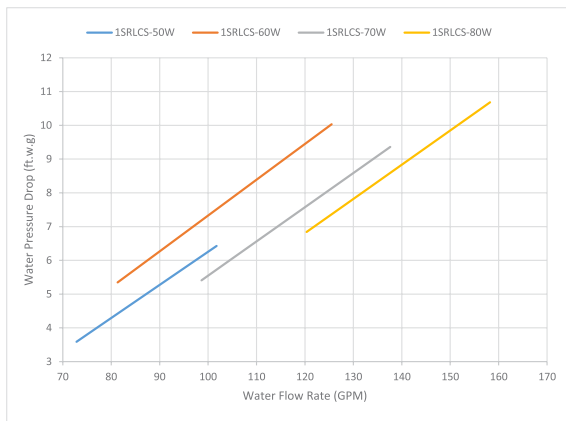
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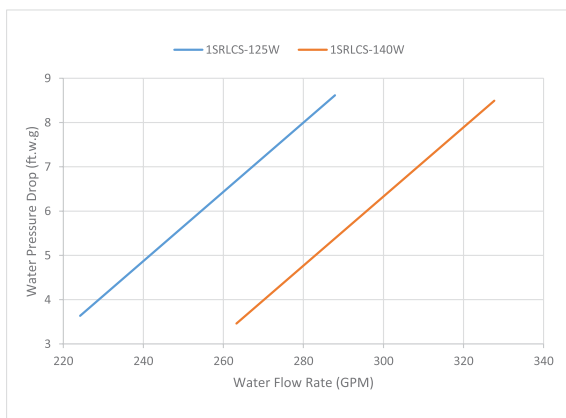
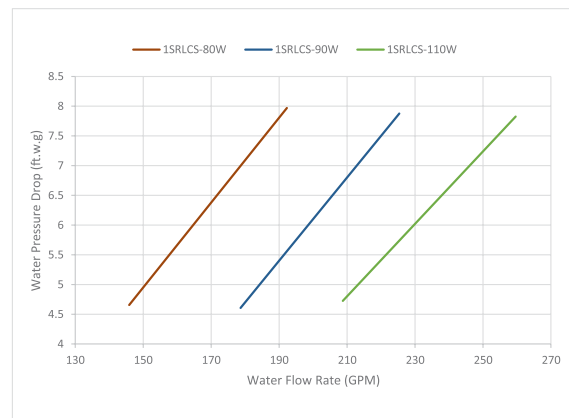
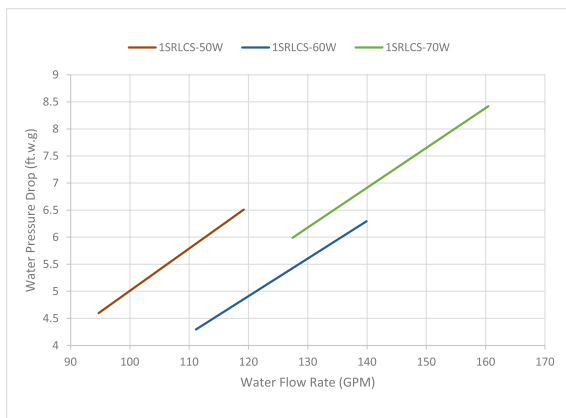
Evaporator/Condenser Pressure Drop (Cont.)

Screw Compressors Chillers (One Circuit)

Evaporator Pressure Drop (Screw Compressor - R134a)



Condenser Pressure Drop (Screw Compressor - R134a)



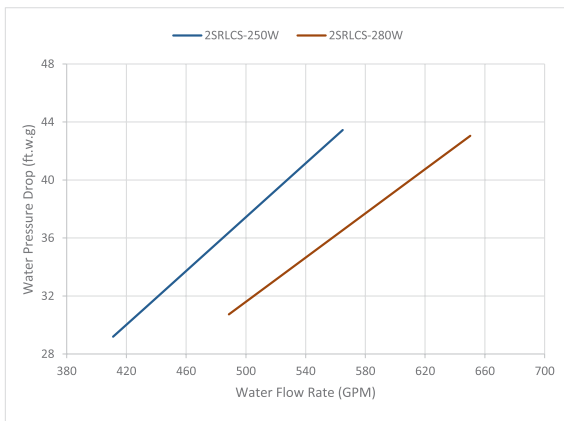
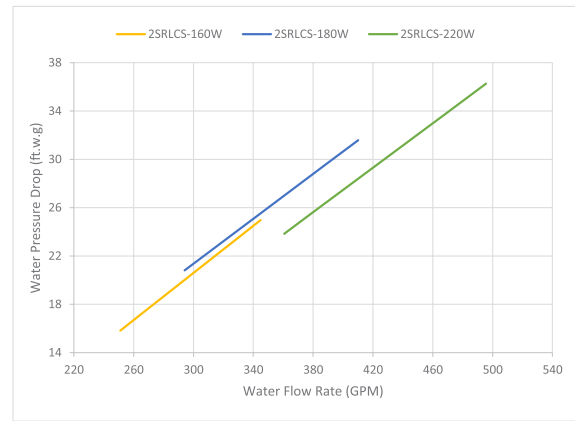
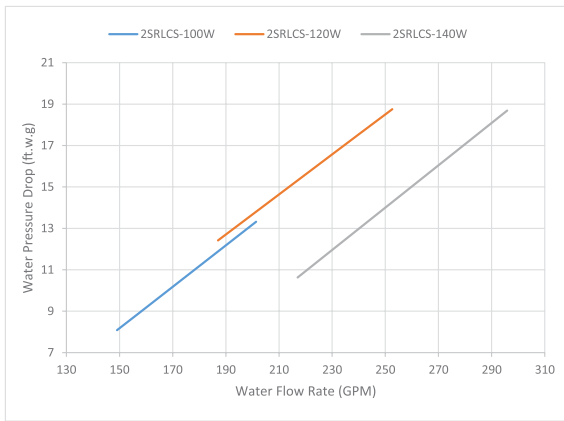
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- The above data is subject to change without prior notice.

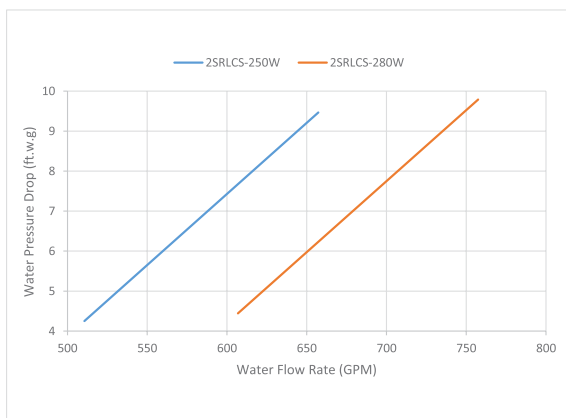
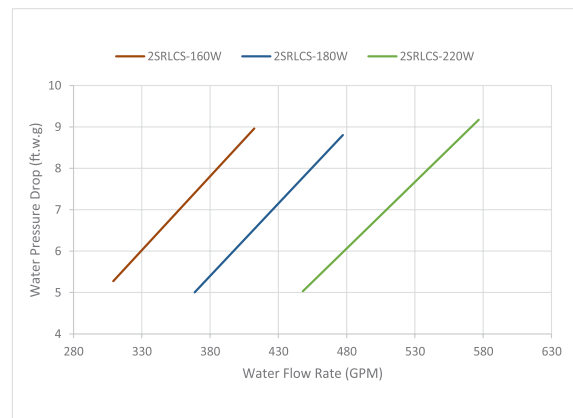
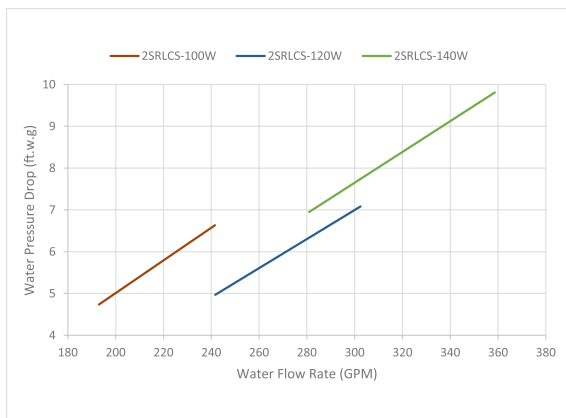
Evaporator/Condenser Pressure Drop (Cont.)

Screw Compressors Chillers (Two Circuits)

Evaporator Pressure Drop (Screw Compressor - R22 & R407C)



Condenser Pressure Drop (Screw Compressor - R22 & R407C)



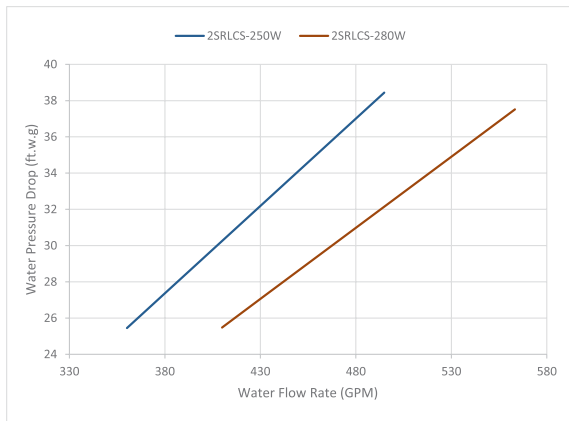
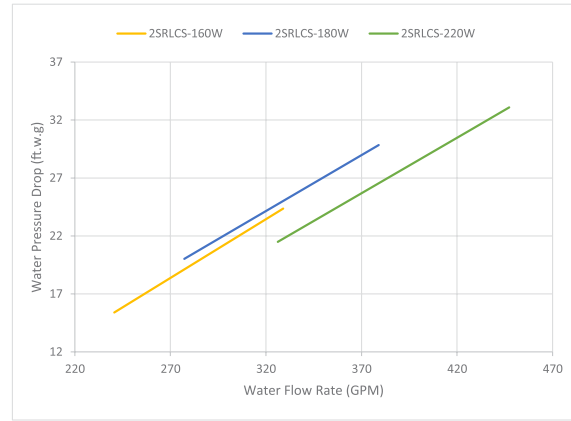
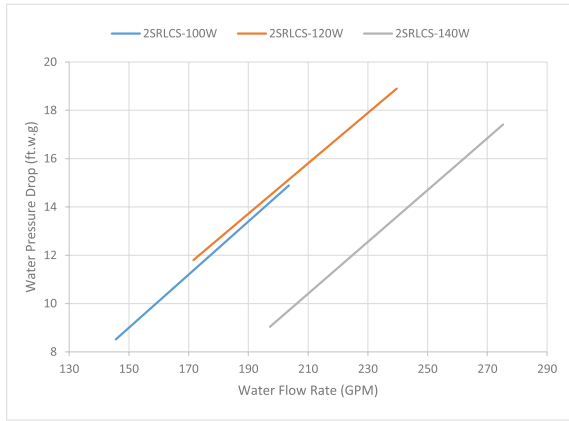
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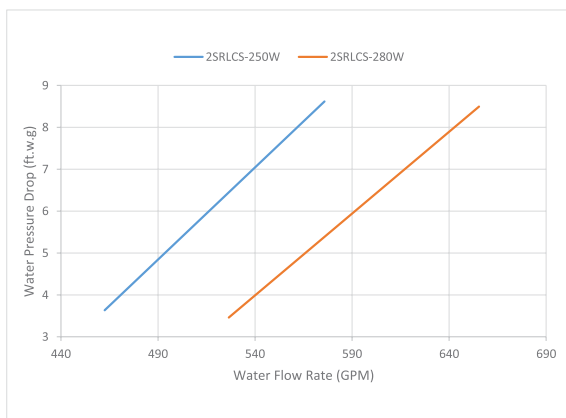
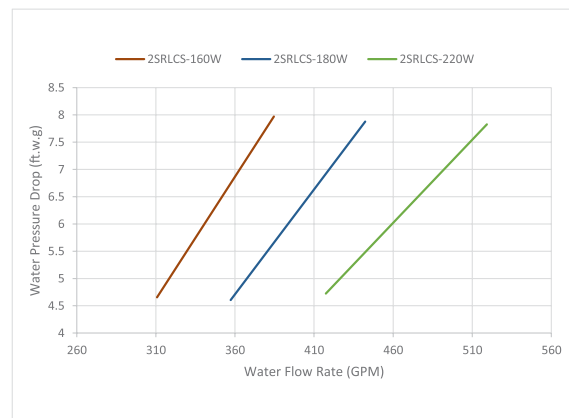
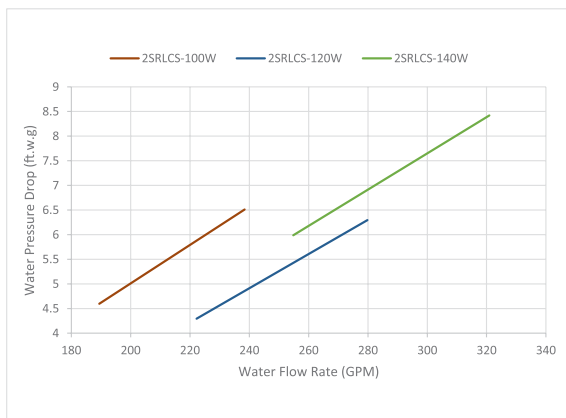
Evaporator/Condenser Pressure Drop (Cont.)

Screw Compressors Chillers (Two Circuits)

Evaporator Pressure Drop (Screw Compressor - R134a)



Condenser Pressure Drop (Screw Compressor - R134a)



NOTE

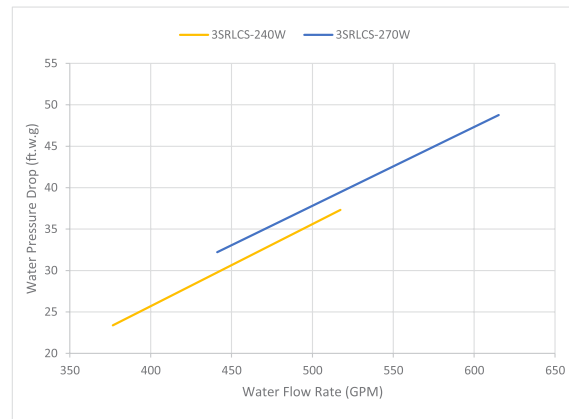
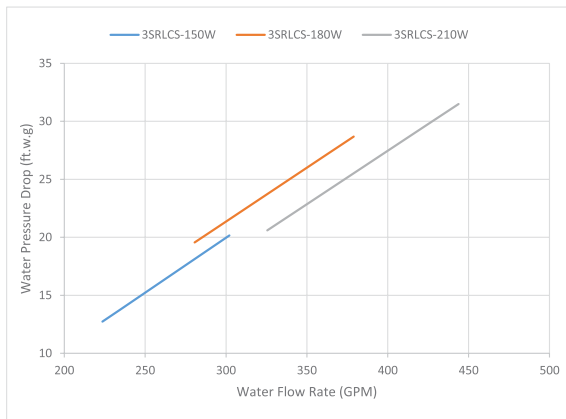
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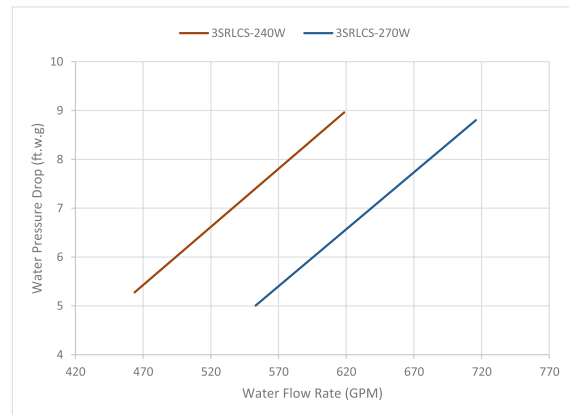
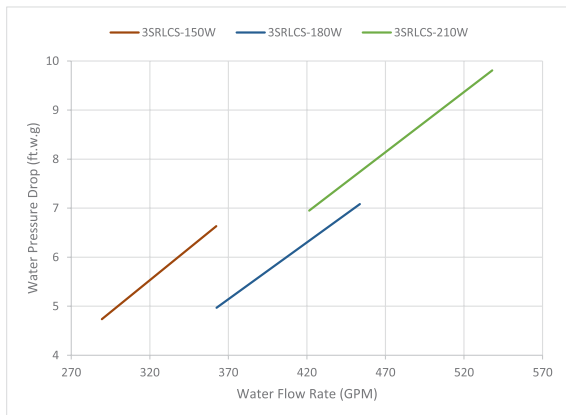
Evaporator/Condenser Pressure Drop (Cont.)

Screw Compressor Chillers (Three Circuits)

Evaporator Pressure Drop (Screw Compressor - R22 & R407C)



Condenser Pressure Drop (Screw Compressor - R22 & R407C)



NOTE

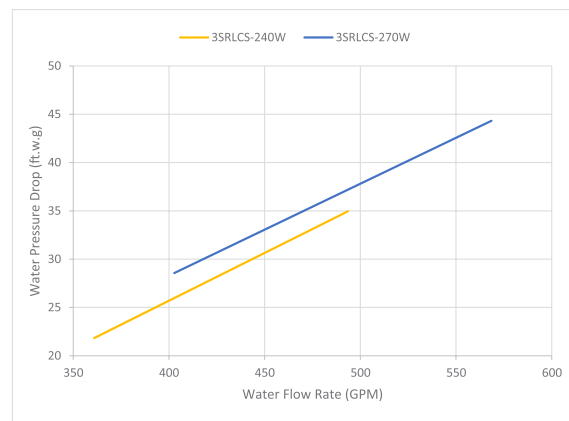
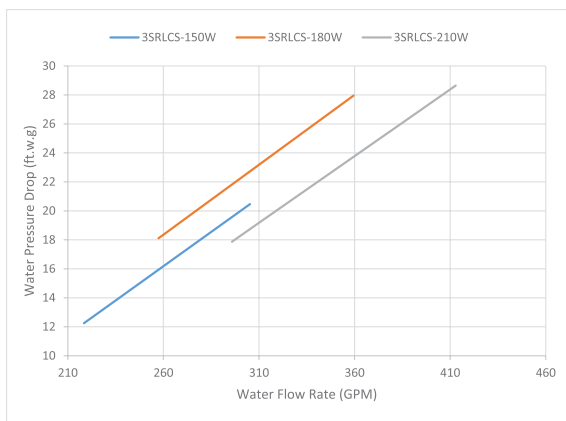
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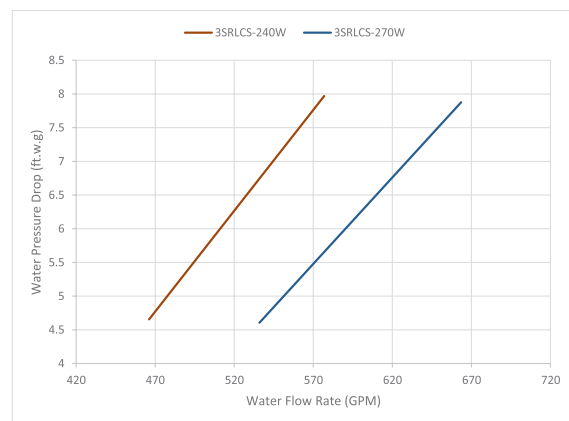
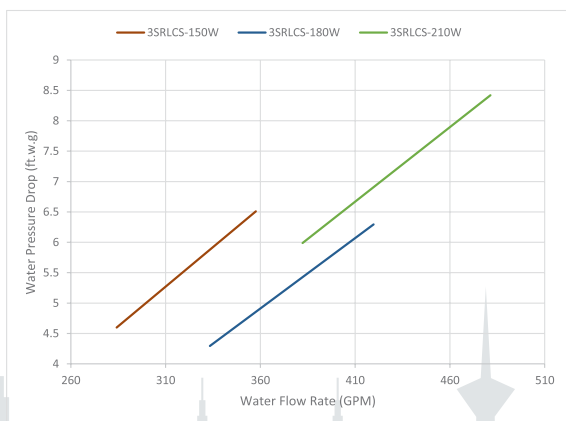
Evaporator/Condenser Pressure Drop (Cont.)

Screw Compressors Chillers (Three Circuits)

Evaporator Pressure Drop (Screw Compressor - R134a)



Condenser Pressure Drop (Screw Compressor - R134a)



NOTE

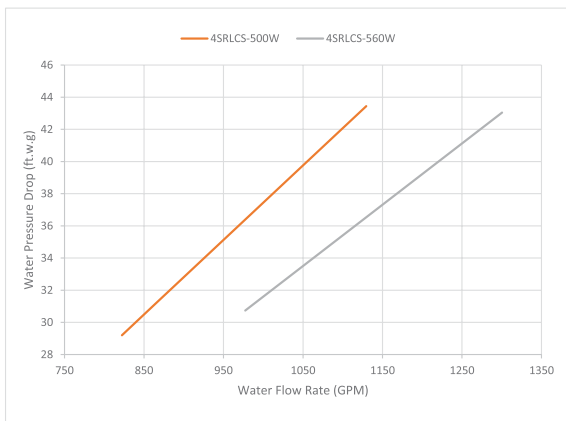
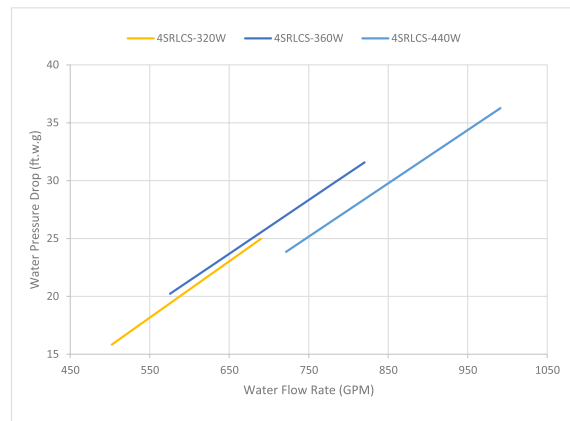
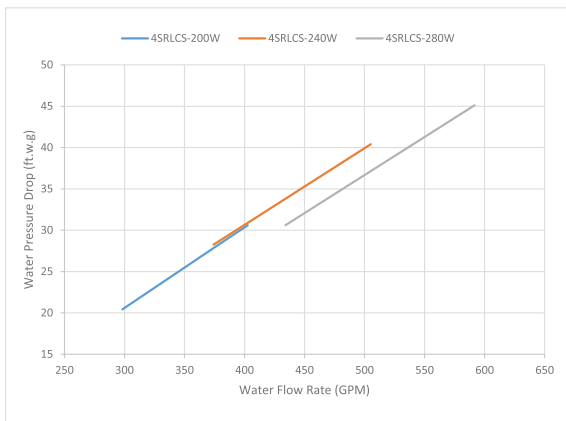
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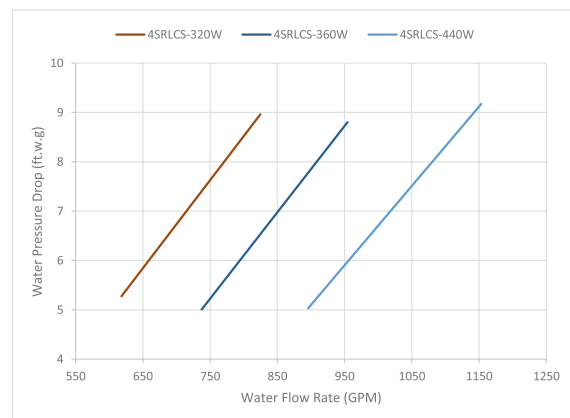
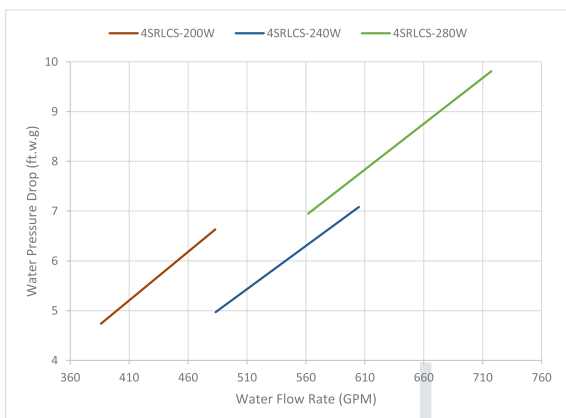
Evaporator/Condenser Pressure Drop (Cont.)

Screw Compressors Chillers (Four Circuits)

Evaporator Pressure Drop (Screw Compressor - R22 & R407C)



Condenser Pressure Drop (Screw Compressor - R22 & R407C)



NOTE

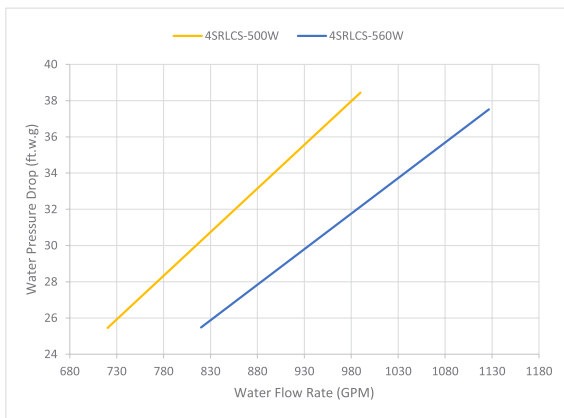
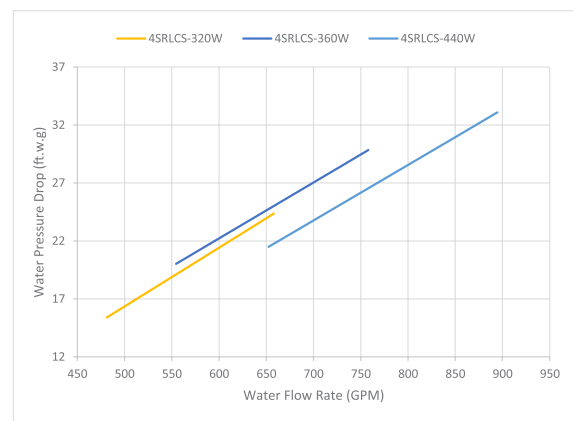
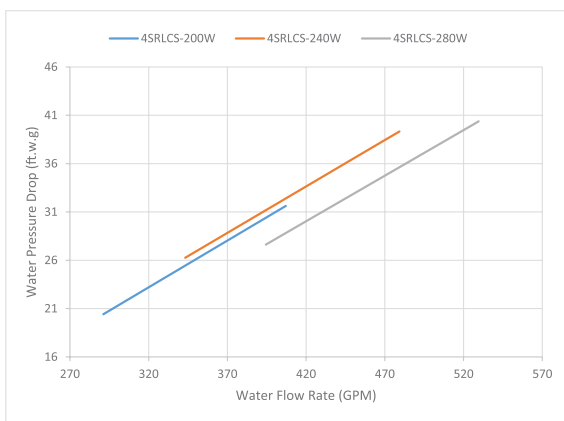
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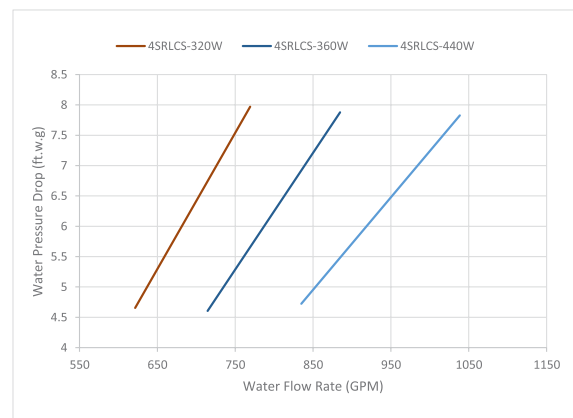
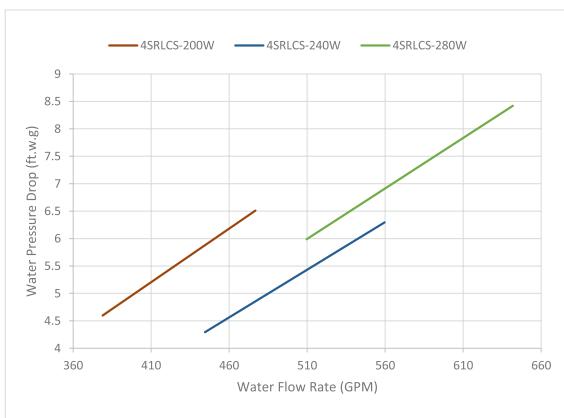
Evaporator/Condenser Pressure Drop (Cont.)

Screw Compressors Chillers (Four Circuits)

Evaporator Pressure Drop (Screw Compressor - R134a)



Condenser Pressure Drop (Screw Compressor - R134a)



NOTE

- The above data is subject to change without prior notice.



Technical Data

Table 12a: Technical Data (Scroll Compressor)

Models	Refrigerant Charge (kg)			U.S. Gals	Oil Charge		Weight (kg)			
	R22	R407C	R134a		Type		Net		Oper.	
					R22	R407C,R134a	R22,R407C	R134a	R22,R407C	R134a
1SRLCH-5W	3.1	2.9	3.1	0.44	mineral	Polyolester	178	207	208	201
1SRLCH-7.5W	4.6	4.3	4.6	0.70	mineral	Polyolester	228	311	286	281
1SRLCH-10W	6.3	6.0	6.4	0.89	mineral	Polyolester	294	343	335	343
1SRLCH-15W	9.9	9.5	10.2	1.64	mineral	Polyolester	393	475	481	433
1SRLCH-20W	11.6	11.1	11.9	2.11	mineral	Polyolester	493	572	548	575
1SRLCH-25W	15.0	14.3	15.3	2.11	mineral	Polyolester	580	700	704	642
1SRLCH-30W	17.4	16.7	17.8	2.22	mineral	Polyolester	655	746	737	750
2SRLCH-10W	6.2	5.9	7.1	0.88	mineral	Polyolester	344	383	384	384
2SRLCH-15W	8.5	8.3	10.1	1.40	mineral	Polyolester	403	517	466	502
2SRLCH-20W	11.6	11.1	13.7	1.78	mineral	Polyolester	538	698	685	623
2SRLCH-30W	14.6	14.0	15.0	3.28	mineral	Polyolester	738	819	829	822
2SRLCH-40W	19.5	18.8	19.9	4.22	mineral	Polyolester	898	1102	1056	1049
2SRLCH-50W	23.8	22.8	24.4	4.22	mineral	Polyolester	1053	1211	1218	1186
2SRLCH-60W	28.7	27.4	29.3	4.44	mineral	Polyolester	1135	1304	1285	1311
3SRLCH-60W	29.3	28.0	32.0	6.33	mineral	Polyolester	1304	1528	1861	1878
3SRLCH-75W	39.0	37.5	45.0	6.33	mineral	Polyolester	1522	1778	2147	2539
3SRLCH-90W	48.0	46.2	53.1	6.66	mineral	Polyolester	1702	2005	2616	2710
4SRLCH-60W	31.6	30.2	32.2	6.56	mineral	Polyolester	1304	1528	1454	1536
4SRLCH-80W	48.2	46.4	49.4	8.44	mineral	Polyolester	1721	2191	1786	1690
4SRLCH-100W	65.3	62.7	66.7	8.44	mineral	Polyolester	2060	2508	1990	1955
4SRLCH-120W	75.9	73.0	77.8	8.88	mineral	Polyolester	2209	2694	2542	2566

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)			
	R22	R407C	R134a	U.S. Gals		Type		Net		Oper.	
				R22,R407C	R134a	R22	R407C,R134a	R22,R407C	R134a	R22,R407C	R134a
1SRLCR-5W	2.5	2.4	2.9	0.53	0.53	mineral	Polyolester	236	241	255	260
1SRLCR-7.5W	3.8	3.6	4.3	0.53	0.69	mineral	Polyolester	284	355	318	389
1SRLCR-10W	5.2	5.0	6.0	0.69	0.69	mineral	Polyolester	372	404	403	436
1SRLCR-15W	8.3	8.0	9.5	0.69	0.69	mineral	Polyolester	475	480	522	529
1SRLCR-20W	9.7	9.2	11.1	0.69	1.06	mineral	Polyolester	496	574	542	621
1SRLCR-25W	12.5	11.9	14.3	1.06	1.19	mineral	Polyolester	665	687	737	760
1SRLCR-30W	14.4	13.9	16.7	1.19	1.25	mineral	Polyolester	711	762	779	833
1SRLCR-35W	17.8	17.1	20.4	1.25	1.25	mineral	Polyolester	841	846	945	952
1SRLCR-40W	20.3	19.5	23.4	1.25	1.25	mineral	Polyolester	877	882	976	985
1SRLCR-50W	23.7	22.8	27.3	1.25	1.32	mineral	Polyolester	995	1186	1133	1328
1SRLCR-60W	27.0	26.0	31.2	1.32	1.32	mineral	Polyolester	1227	1269	1359	1406
2SRLCR-10W	5.7	5.6	6.7	1.06	1.06	mineral	Polyolester	445	456	478	489
2SRLCR-15W	8.3	7.8	9.4	1.06	1.38	mineral	Polyolester	481	621	530	671
2SRLCR-20W	11.1	10.6	12.7	1.38	1.38	mineral	Polyolester	744	807	821	886
2SRLCR-30W	14.0	13.6	16.1	1.38	1.38	mineral	Polyolester	838	848	911	924
2SRLCR-40W	18.6	17.9	21.6	1.38	2.12	mineral	Polyolester	937	1091	1045	1202
2SRLCR-50W	22.7	21.8	26.2	2.12	2.38	mineral	Polyolester	1156	1198	1284	1330
2SRLCR-60W	27.4	26.5	31.5	2.38	2.50	mineral	Polyolester	1247	1349	1369	1475
2SRLCR-70W	36.5	35.1	42.1	2.50	2.50	mineral	Polyolester	1524	1534	1687	1703
2SRLCR-80W	42.0	40.5	48.3	2.50	2.50	mineral	Polyolester	1638	1648	1861	1878
2SRLCR-100W	56.8	54.6	65.4	2.50	2.64	mineral	Polyolester	1849	2232	2147	2539
2SRLCR-120W	66.2	63.6	76.2	2.64	2.64	mineral	Polyolester	2330	2415	2616	2710
3SRLCR-60W	28.0	27.1	32.1	2.07	3.18	mineral	Polyolester	1314	1545	1437	1672
3SRLCR-75W	39.2	37.7	45.2	3.18	3.57	mineral	Polyolester	1720	1783	1886	1955
3SRLCR-90W	48.6	46.8	56.7	3.57	3.75	mineral	Polyolester	1887	2039	2117	2278
3SRLCR-105W	59.7	57.3	68.6	3.75	3.75	mineral	Polyolester	2241	2257	2542	2566
3SRLCR-120W	66.2	63.6	76.2	3.75	3.75	mineral	Polyolester	2355	2371	2641	2666
3SRLCR-150W	81.0	76.5	91.5	3.75	3.96	mineral	Polyolester	2570	3144	2903	3487
3SRLCR-180W	100.8	99.0	115.2	3.96	3.96	mineral	Polyolester	3400	3526	3930	4071
4SRLCR-80W	43.8	42.1	50.4	2.76	4.24	mineral	Polyolester	1855	2164	2079	2395
4SRLCR-100W	59.4	57.0	68.2	4.24	4.76	mineral	Polyolester	2365	2450	2664	2757
4SRLCR-120W	69.0	66.4	79.5	4.76	5.00	mineral	Polyolester	2548	2751	2834	3048
4SRLCR-140W	74.8	71.7	86.0	5.00	5.00	mineral	Polyolester	2951	2972	3275	3307
4SRLCR-160W	89.0	85.4	102.3	5.00	5.00	mineral	Polyolester	2973	2994	3421	3455
4SRLCR-200W	109.8	105.3	126.1	5.00	5.28	mineral	Polyolester	3955	4720	4673	5455
4SRLCR-240W	120.7	115.9	138.7	5.28	5.28	mineral	Polyolester	4933	5102	5608	5794

NOTE

- The above data is subject to change without notice.



Technical Data (Cont.)

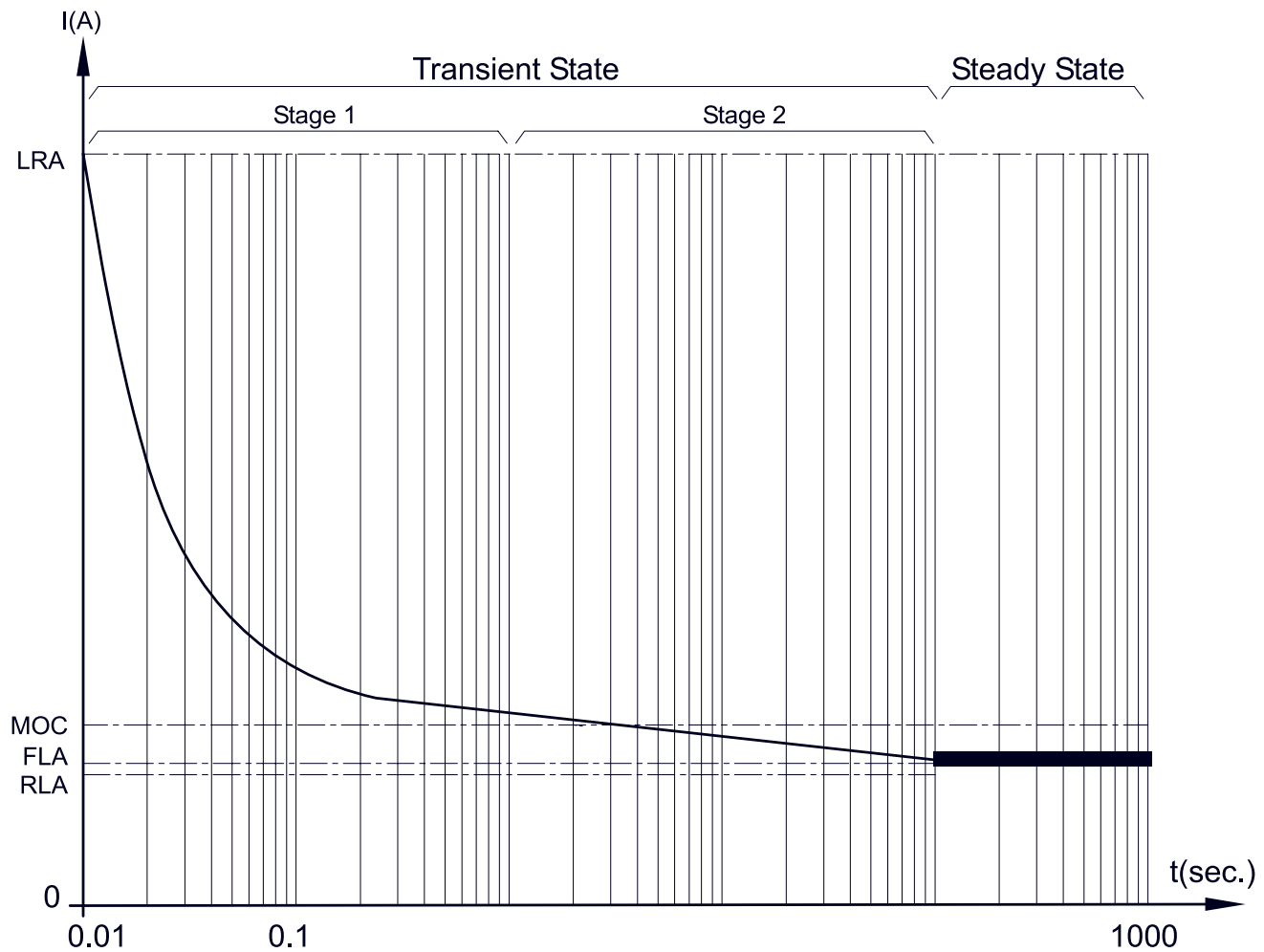
Table 12c: Technical Data (Screw Compressor)

Models	Refrigerant Charge (kg)			Oil Charge			Weight (kg)			
	R22	R407C	R134a	U.S. Gals		Type	Net		Oper.	
				R22,R407C	R134a	R22, R407C, R134a	R22,R407C	R134a	R22,R407C	R134a
1SRLCS-50W	26.4	25.4	27.8	2.51	3.96	Polyolester	954	1215	1089	1349
1SRLCS-60W	30.2	29.0	31.9	2.51	3.96	Polyolester	992	1259	1120	1386
1SRLCS-70W	35.5	34.1	37.4	3.96	3.96	Polyolester	1330	1351	1486	1505
1SRLCS-80W	40.7	39.1	43.0	3.96	5.81	Polyolester	1431	1863	1646	2076
1SRLCS-90W	50.6	48.5	53.3	3.96	5.81	Polyolester	1541	1973	1741	2171
1SRLCS-110W	60.3	58.0	63.7	5.81	5.81	Polyolester	2098	2125	2376	2401
1SRLCS-125W	64.1	61.6	67.6	5.81	5.02	Polyolester	2149	2190	2420	2459
1SRLCS-140W	69.4	66.7	73.2	5.81	5.02	Polyolester	2344	2398	2652	2703
2SRLCS-100W	57.9	55.5	61.0	5.02	7.92	Polyolester	1782	2303	2067	2591
2SRLCS-120W	67.3	64.7	71.0	5.02	7.92	Polyolester	1871	2406	2142	2680
2SRLCS-140W	72.9	70.1	76.8	7.92	7.92	Polyolester	2574	2614	2881	2925
2SRLCS-160W	86.7	83.3	91.5	7.92	11.62	Polyolester	2772	3636	3201	4069
2SRLCS-180W	106.9	102.7	112.7	7.92	11.62	Polyolester	3052	3916	3564	4433
2SRLCS-220W	117.7	113.0	124.0	11.62	11.62	Polyolester	4326	4380	5024	5085
2SRLCS-250W	147.9	142.1	156.0	11.62	10.04	Polyolester	4546	4627	5214	5302
2SRLCS-280W	161.6	155.2	170.4	11.62	10.04	Polyolester	4692	4800	5341	5456
3SRLCS-150W	79.5	75.0	84.0	7.53	11.88	Polyolester	2673	3454	2673	3454
3SRLCS-180W	108.0	104.4	113.4	7.53	11.88	Polyolester	2925	3727	2925	3727
3SRLCS-210W	112.3	107.8	118.4	11.88	11.88	Polyolester	4143	4204	4143	4204
3SRLCS-240W	142.0	136.4	149.8	11.88	17.43	Polyolester	4357	5653	4357	5653
3SRLCS-270W	155.8	149.7	164.3	11.88	17.43	Polyolester	4517	5813	4517	5813
4SRLCS-200W	126.1	121.2	133.0	10.04	15.84	Polyolester	3608	4650	4172	5220
4SRLCS-240W	142.7	137.0	150.5	10.04	15.84	Polyolester	3841	4910	4533	5608
4SRLCS-280W	171.0	164.2	180.3	15.84	15.84	Polyolester	5136	5217	5787	5876
4SRLCS-320W	173.4	166.7	183.0	15.84	23.24	Polyolester	5545	7273	6402	8138
4SRLCS-360W	213.7	205.4	225.4	15.84	23.24	Polyolester	6105	7833	7128	8866
4SRLCS-440W	235.3	225.9	248.0	23.24	23.24	Polyolester	8240	8348	9638	9758
4SRLCS-500W	295.9	284.2	312.0	23.24	20.08	Polyolester	8681	8843	10016	10193
4SRLCS-560W	323.2	310.4	340.9	23.24	20.08	Polyolester	8973	9189	10270	10502

NOTE

- The above data is subject to change without notice.

Electrical Schematic Curve at the Start-Up



NOTE

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

Locked Rotor Amps (LRA):

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

Maximum Operating Current (MOC):

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

Otherwise, the stage 2 of the 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: Water Chiller Electrical Data (Scroll Compressor) - R22

Model	Per Compressor							System			
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	Cable Size
1SRLCH-5W	5	D.O.L	7	7.95	11	65.5	4.15	7	7.95	4.15	4*2.5
1SRLCH-7.5W	7.5	D.O.L	9.95	11.5	15.9	95	6.05	9.95	11.5	6.05	4*2.5
1SRLCH-10W	10	D.O.L	12.7	14.55	19.6	118	8.05	12.7	14.55	8.05	4*4
1SRLCH-15W	15	D.O.L	20.15	22.45	35	175	12.25	20.15	22.45	12.25	4*6
1SRLCH-20W	20	D.O.L	25.5	29.15	50	215	16.7	25.5	29.15	16.7	4*10
1SRLCH-25W	25	D.O.L	32.55	37.2	69	270	21.3	32.55	37.2	21.3	4*10
1SRLCH-30W	30	D.O.L	36.5	42.4	79	300	25.25	36.5	42.4	25.25	4*16
2SRLCH-10W	5	D.O.L	7	7.95	11	65.5	4.15	14	15.9	8.3	4*4
2SRLCH-15W	7.5	D.O.L	9.95	11.5	15.9	95	6.05	19.9	23	12.1	4*6
2SRLCH-20W	10	D.O.L	12.7	14.55	19.6	118	8.05	25.4	29.1	16.1	4*10
2SRLCH-30W	15	D.O.L	20.15	22.45	35	175	12.25	40.3	44.9	24.5	4*16
2SRLCH-40W	20	D.O.L	25.5	29.15	50	215	16.7	51	58.3	33.4	3*25/16
2SRLCH-50W	25	D.O.L	32.55	37.2	69	270	21.3	65.1	74.4	42.6	3*35/16
2SRLCH-60W	30	D.O.L	36.5	42.4	79	300	25.25	73	84.8	50.5	3*35/16
3SRLCH-60W	20	D.O.L	25.5	29.15	50	215	16.7	76.5	87.45	50.1	3*35/16
3SRLCH-75W	25	D.O.L	32.55	37.2	69	270	21.3	97.65	111.6	63.9	3*70/35
3SRLCH-90W	30	D.O.L	36.5	42.4	79	300	25.25	109.5	127.2	75.75	3*70/35
4SRLCH-60W	15	D.O.L	20.15	22.45	35	175	12.25	80.6	89.8	49	3*35/16
4SRLCH-80W	20	D.O.L	25.5	29.15	50	215	16.7	102	116.6	66.8	3*70/35
4SRLCH-100W	25	D.O.L	32.55	37.2	69	270	21.3	130.2	148.8	85.2	3*95/50
4SRLCH-120W	30	D.O.L	36.5	42.4	79	300	25.25	146	169.6	101	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 maybe change based on the unit operation condition
- All above data subject to change without notice.



Electrical Data (Cont.)

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

Model	Per Compressor							System			
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	Cable Size
1SRLCH-5W	5	D.O.L	6.2	6.9	12	59	3.85	6.2	6.9	3.85	4*2.5
1SRLCH-7.5W	7.5	D.O.L	10.55	11.7	15.9	95	6	10.55	11.7	6	4*2.5
1SRLCH-10W	10	D.O.L	12.85	14.6	19.6	118	7.9	12.85	14.6	7.9	4*4
1SRLCH-15W	15	D.O.L	20.6	22.9	35	175	12.25	20.6	22.9	12.25	4*6
1SRLCH-20W	20	D.O.L	25.15	28.7	50	215	16.75	25.15	28.7	16.75	4*10
1SRLCH-25W	25	D.O.L	30.8	35.65	69	270	20.5	30.8	35.65	20.5	4*10
1SRLCH-30W	30	D.O.L	36	41.3	79	300	24.95	36	41.3	24.95	4*16
2SRLCH-10W	5	D.O.L	6.2	6.9	12	59	3.85	12.4	13.8	7.7	4*4
2SRLCH-15W	7.5	D.O.L	10.55	11.7	15.9	95	6	21.1	23.4	12	4*6
2SRLCH-20W	10	D.O.L	12.85	14.6	19.6	118	7.9	25.7	29.2	15.8	4*10
2SRLCH-30W	15	D.O.L	20.6	22.9	35	175	12.25	41.2	45.8	24.5	4*16
2SRLCH-40W	20	D.O.L	25.15	28.7	50	215	16.75	50.3	57.4	33.5	3*25/16
2SRLCH-50W	25	D.O.L	30.8	35.65	69	270	20.5	61.6	71.3	41	3*35/16
2SRLCH-60W	30	D.O.L	36	41.3	79	300	24.95	72	82.6	49.9	3*35/16
3SRLCH-60W	20	D.O.L	25.15	28.7	50	215	16.75	75.45	86.1	50.25	3*35/16
3SRLCH-75W	25	D.O.L	30.8	35.65	69	270	20.5	92.4	106.95	61.5	3*50/25
3SRLCH-90W	30	D.O.L	36	41.3	79	300	24.95	108	123.9	74.85	3*70/35
4SRLCH-60W	15	D.O.L	20.6	22.9	35	175	12.25	82.4	91.6	49	3*35/16
4SRLCH-80W	20	D.O.L	25.15	28.7	50	215	16.75	100.6	114.8	67	3*70/35
4SRLCH-100W	25	D.O.L	30.8	35.65	69	270	20.5	123.2	142.6	82	3*95/50
4SRLCH-120W	30	D.O.L	36	41.3	79	300	24.95	144	165.2	99.8	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 maybe change based on the unit operation condition
- All above data subject to change without notice.



Electrical Data (Cont.)

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

Model	Per Compressor							System			
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	Cable Size
1SRLCH-5W	5	D.O.L	5.15	5.6	11	65.5	2.7	5.15	5.6	2.7	4*2.5
1SRLCH-7.5W	7.5	D.O.L	9.05	9.65	15.9	95	4.15	9.05	9.65	4.15	4*2.5
1SRLCH-10W	10	D.O.L	10.65	11.55	19.6	118	5.35	10.65	11.55	5.35	4*2.5
1SRLCH-15W	15	D.O.L	20	21.15	34	174	8.5	20	21.15	8.5	4*4
1SRLCH-20W	20	D.O.L	20.3	22.3	50	215	11.5	20.3	22.3	11.5	4*6
1SRLCH-25W	25	D.O.L	25.75	28.3	69	270	14.4	25.75	28.3	14.4	4*6
1SRLCH-30W	30	D.O.L	27.5	30.7	79	300	17.2	27.5	30.7	17.2	4*10
2SRLCH-10W	5	D.O.L	5.15	5.6	11	65.5	2.7	10.3	11.2	5.4	4*2.5
2SRLCH-15W	7.5	D.O.L	9.05	9.65	15.9	95	4.15	18.1	19.3	8.3	4*4
2SRLCH-20W	10	D.O.L	10.65	11.55	19.6	118	5.35	21.3	23.1	10.7	4*6
2SRLCH-30W	15	D.O.L	20	21.15	34	174	8.5	40	42.3	17	4*10
2SRLCH-40W	20	D.O.L	20.3	22.3	50	215	11.5	40.6	44.6	23	4*16
2SRLCH-50W	25	D.O.L	25.75	28.3	69	270	14.4	51.5	56.6	28.8	3*25/16
2SRLCH-60W	30	D.O.L	27.5	30.7	79	300	17.2	55	61.4	34.4	3*25/16
3SRLCH-60W	20	D.O.L	20.3	22.3	50	215	11.5	60.9	66.9	34.5	3*25/16
3SRLCH-75W	25	D.O.L	25.75	28.3	69	270	14.4	77.25	84.9	43.2	3*35/16
3SRLCH-90W	30	D.O.L	27.5	30.7	79	300	17.2	82.5	92.1	51.6	3*50/25
4SRLCH-60W	15	D.O.L	20	21.15	34	174	8.5	80	84.6	34	3*35/16
4SRLCH-80W	20	D.O.L	20.3	22.3	50	215	11.5	81.2	89.2	46	3*35/16
4SRLCH-100W	25	D.O.L	25.75	28.3	69	270	14.4	103	113.2	57.6	3*70/35
4SRLCH-120W	30	D.O.L	27.5	30.7	79	300	17.2	110	122.8	68.8	3*70/35

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 maybe change based on the unit operation condition.
- All above data subject to change without notice.

Electrical Data (Cont.)

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

Model	Per Compressor							System			
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	Cable Size
1SRLCR-5W	5	D.O.L	7.45	8.5	10.8	62.2	4.71	7.45	8.5	4.71	4*2.5
1SRLCR-7.5W	7.5	D.O.L	10.7	12.4	16.5	82.4	7.1	10.7	12.4	7.1	4*2.5
1SRLCR-10W	10	PW	14	15.8	19.9	59/99	9	14	15.8	9	4*4
1SRLCR-15W	15	PW	19.05	22.1	28.2	81/132	12.65	19.05	22.1	12.65	4*6
1SRLCR-20W	20	PW	21.6	25.2	33.2	97/158	14.8	21.6	25.2	14.8	4*6
1SRLCR-25W	25	PW	29	33.9	44	125/211	19.75	29	33.9	19.75	4*10
1SRLCR-30W	30	PW	34.1	39.8	51.2	141/233	22.7	34.1	39.8	22.7	4*16
1SRLCR-35W	35	PW	44.3	52.1	64.4	165/275	30	44.3	52.1	30	4*16
1SRLCR-40W	40	PW	52.7	60.5	73.9	219/362	34.1	52.7	60.5	34.1	3*25/16
1SRLCR-50W	50	PW	71.9	79.7	96.2	226/404	41.3	71.9	79.7	41.3	3*35/16
1SRLCR-60W	60	PW	82.5	94.6	113	349/513	50.7	82.5	94.6	50.7	3*50/25
2SRLCR-10W	5	D.O.L	7.45	8.5	10.8	62.2	4.71	14.9	17	9.42	4*4
2SRLCR-15W	7.5	D.O.L	10.7	12.4	16.5	82.4	7.1	21.4	24.8	14.2	4*6
2SRLCR-20W	10	PW	14	15.8	19.9	59/99	9	28	31.6	18	4*10
2SRLCR-30W	15	PW	19.05	22.1	28.2	81/132	12.65	38.1	44.2	25.3	4*16
2SRLCR-40W	20	PW	21.6	25.2	33.2	97/158	14.8	43.2	50.4	29.6	4*16
2SRLCR-50W	25	PW	29	33.9	44	125/211	19.75	58	67.8	39.5	3*25/16
2SRLCR-60W	30	PW	34.1	39.8	51.2	141/233	22.7	68.2	79.6	45.4	3*35/16
2SRLCR-70W	35	PW	44.3	52.1	64.4	165/275	30	88.6	104.2	60	3*50/25
2SRLCR-80W	40	PW	52.7	60.5	73.9	219/362	34.1	105.4	121	68.2	3*70/35
2SRLCR-100W	50	PW	71.9	79.7	96.2	226/404	41.3	143.8	159.4	82.6	3*95/50
2SRLCR-120W	60	PW	82.5	94.6	113	349/513	50.7	165	189.2	101.4	3*120/70
3SRLCR-60W	20	PW	21.6	25.2	33.2	97/158	14.8	64.8	75.6	44.4	3*35/16
3SRLCR-75W	25	PW	29	33.9	44	125/211	19.75	87	101.7	59.25	3*50/25
3SRLCR-90W	30	PW	34.1	39.8	51.2	141/233	22.7	102.3	119.4	68.1	3*70/35
3SRLCR-105W	35	PW	44.3	52.1	64.4	165/275	30	132.9	156.3	90	3*95/50
3SRLCR-120W	40	PW	52.7	60.5	73.9	219/362	34.1	158.1	181.5	102.3	3*120/70
3SRLCR-150W	50	PW	71.9	79.7	96.2	226/404	41.3	215.7	239.1	123.9	3*185/95
3SRLCR-180W	60	PW	82.5	94.6	113	349/513	50.7	247.5	283.8	152.1	3*240/120
4SRLCR-80W	20	PW	21.6	25.2	33.2	97/158	14.8	86.4	100.8	59.2	3*50/25
4SRLCR-100W	25	PW	29	33.9	44	125/211	19.75	116	135.6	79	3*70/35
4SRLCR-120W	30	PW	34.1	39.8	51.2	141/233	22.7	136.4	159.2	90.8	3*95/50
4SRLCR-140W	35	PW	44.3	52.1	64.4	165/275	30	177.2	208.4	120	3*150/70
4SRLCR-160W	40	PW	52.7	60.5	73.9	219/362	34.1	210.8	242	136.4	3*185/95
4SRLCR-200W	50	PW	71.9	79.7	96.2	226/404	41.3	287.6	318.8	165.2	2*(3*95/50)
4SRLCR-240W	60	PW	82.5	94.6	113	349/513	50.7	330	378.4	202.8	2*(3*120/70)

NOTE

- System Power Supply: 380~400V/3φ/50HZ
- RLA: Rated Load Ampere
- FLA: Full Load Ampere
- MOC: Maximum Operating Current
- LRA: Lock Rotor Ampere
- MPI: Maximum Power Input (kW)
- D.O.L: Direct 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 maybe change based on the unit operation condition
- All above data subject to change without notice.

Electrical Data (Cont.)

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

Model	Per Compressor							System			
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	Cable Size
1SRLCR-5W	5	D.O.L	7.53	8.75	10.8	62.2	4.9	7.53	8.75	4.9	4*2.5
1SRLCR-7.5W	7.5	D.O.L	10.75	12.7	16.5	82.4	7.35	10.75	12.7	7.35	4*2.5
1SRLCR-10W	10	PW	13.1	15.2	19.9	59/99	8.65	13.1	15.2	8.65	4*4
1SRLCR-15W	15	PW	18.35	21.3	28.2	81/132	12.1	18.35	21.3	12.1	4*6
1SRLCR-20W	20	PW	20.8	24.3	33.2	97/158	14.15	20.8	24.3	14.15	4*6
1SRLCR-25W	25	PW	28.4	33.6	44	125/211	19.5	28.4	33.6	19.5	4*10
1SRLCR-30W	30	PW	33.8	39.8	51.2	141/233	22.7	33.8	39.8	22.7	4*16
1SRLCR-35W	35	PW	42.7	50.9	64.4	165/275	29.2	42.7	50.9	29.2	4*16
1SRLCR-40W	40	PW	51.9	60.3	73.9	219/362	34	51.9	60.3	34	3*25/16
1SRLCR-50W	50	PW	70.1	78.6	96.2	226/404	40.3	70.1	78.6	40.3	3*35/16
1SRLCR-60W	60	PW	81.8	94.7	113	349/513	50.7	81.8	94.7	50.7	3*50/25
2SRLCR-10W	5	D.O.L	7.53	8.75	10.8	62.2	4.9	15.06	17.5	9.8	4*4
2SRLCR-15W	7.5	D.O.L	10.75	12.7	16.5	82.4	7.35	21.5	25.4	14.7	4*6
2SRLCR-20W	10	PW	13.1	15.2	19.9	59/99	8.65	26.2	30.4	17.3	4*10
2SRLCR-30W	15	PW	18.35	21.3	28.2	81/132	12.1	36.7	42.6	24.2	4*16
2SRLCR-40W	20	PW	20.8	24.3	33.2	97/158	14.15	41.6	48.6	28.3	4*16
2SRLCR-50W	25	PW	28.4	33.6	44	125/211	19.5	56.8	67.2	39	3*25/16
2SRLCR-60W	30	PW	33.8	39.8	51.2	141/233	22.7	67.6	79.6	45.4	3*35/16
2SRLCR-70W	35	PW	42.7	50.9	64.4	165/275	29.2	85.4	101.8	58.4	3*50/25
2SRLCR-80W	40	PW	51.9	60.3	73.9	219/362	34	103.8	120.6	68	3*70/35
2SRLCR-100W	50	PW	70.1	78.6	96.2	226/404	40.3	140.2	157.2	80.6	3*95/50
2SRLCR-120W	60	PW	81.8	94.7	113	349/513	50.7	163.6	189.4	101.4	3*120/70
3SRLCR-60W	20	PW	20.8	24.3	33.2	97/158	14.15	62.4	72.9	42.45	3*35/16
3SRLCR-75W	25	PW	28.4	33.6	44	125/211	19.5	85.2	100.8	58.5	3*50/25
3SRLCR-90W	30	PW	33.8	39.8	51.2	141/233	22.7	101.4	119.4	68.1	3*70/35
3SRLCR-105W	35	PW	42.7	50.9	64.4	165/275	29.2	128.1	152.7	87.6	3*95/50
3SRLCR-120W	40	PW	51.9	60.3	73.9	219/362	34	155.7	180.9	102	3*120/70
3SRLCR-150W	50	PW	70.1	78.6	96.2	226/404	40.3	210.3	235.8	120.9	3*185/95
3SRLCR-180W	60	PW	81.8	94.7	113	349/513	50.7	245.4	284.1	152.1	3*240/120
4SRLCR-80W	20	PW	20.8	24.3	33.2	97/158	14.15	83.2	97.2	56.6	3*50/25
4SRLCR-100W	25	PW	28.4	33.6	44	125/211	19.5	113.6	134.4	78	3*70/35
4SRLCR-120W	30	PW	33.8	39.8	51.2	141/233	22.7	135.2	159.2	90.8	3*95/50
4SRLCR-140W	35	PW	42.7	50.9	64.4	165/275	29.2	170.8	203.6	116.8	3*150/70
4SRLCR-160W	40	PW	51.9	60.3	73.9	219/362	34	207.6	241.2	136	3*185/95
4SRLCR-200W	50	PW	70.1	78.6	96.2	226/404	40.3	280.4	314.4	161.2	2*(3*95/50)
4SRLCR-240W	60	PW	81.8	94.7	113	349/513	50.7	327.2	378.8	202.8	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 maybe change based on the unit operation condition
- All above data subject to change without notice.

Electrical Data (Cont.)

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

Model	Per Compressor							System			
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	Cable Size
1SRLCR-5W	5	D.O.L	7.5	8.8	14.5	62.2	4.95	7.5	8.8	4.95	4*2.5
1SRLCR-7.5W	7.5	PW	9	10.65	16.6	39/68	6.1	9	10.65	6.1	4*2.5
1SRLCR-10W	10	PW	12.5	14.65	22.7	59/99	8.25	12.5	14.65	8.25	4*4
1SRLCR-15W	15	PW	14.3	17	26.6	69/113	9.8	14.3	17	9.8	4*4
1SRLCR-20W	20	PW	19.5	22.9	36.7	97/158	13.2	19.5	22.9	13.2	4*6
1SRLCR-25W	25	PW	22	26.5	43.9	97/158	15.6	22	26.5	15.6	4*6
1SRLCR-30W	30	PW	30.3	35.8	53.2	141/233	19.95	30.3	35.8	19.95	4*10
1SRLCR-35W	35	PW	34.4	41.3	65.5	141/233	23.6	34.4	41.3	23.6	4*16
1SRLCR-40W	40	PW	45.7	52.7	83.2	219/362	28.3	45.7	52.7	28.3	4*16
1SRLCR-50W	50	PW	60	68.3	92	298/438	34.8	60	68.3	34.8	3*25/16
1SRLCR-60W	60	PW	71.1	80.5	113	349/513	40.8	71.1	80.5	40.8	3*35/16
2SRLCR-10W	5	D.O.L	7.5	8.8	14.5	62.2	4.95	15	17.6	9.9	4*4
2SRLCR-15W	7.5	D.O.L	9	10.65	16.6	39/68	6.1	18	21.3	12.2	4*6
2SRLCR-20W	10	PW	12.5	14.65	22.7	59/99	8.25	25	29.3	16.5	4*10
2SRLCR-30W	15	PW	14.3	17	26.6	69/113	9.8	28.6	34	19.6	4*10
2SRLCR-40W	20	PW	19.5	22.9	36.7	97/158	13.2	39	45.8	26.4	4*16
2SRLCR-50W	25	PW	22	26.5	43.9	97/158	15.6	44	53	31.2	3*25/16
2SRLCR-60W	30	PW	30.3	35.8	53.2	141/233	19.95	60.6	71.6	39.9	3*35/16
2SRLCR-70W	35	PW	34.4	41.3	65.5	141/233	23.6	68.8	82.6	47.2	3*35/16
2SRLCR-80W	40	PW	45.7	52.7	83.2	219/362	28.3	91.4	105.4	56.6	3*50/25
2SRLCR-100W	50	PW	60	68.3	92	298/438	34.8	120	136.6	69.6	3*70/35
2SRLCR-120W	60	PW	71.1	80.5	113	349/513	40.8	142.2	161	81.6	3*95/50
3SRLCR-60W	20	PW	19.5	22.9	36.7	97/158	13.2	58.5	68.7	39.6	3*25/16
3SRLCR-75W	25	PW	22	26.5	43.9	97/158	15.6	66	79.5	46.8	3*35/16
3SRLCR-90W	30	PW	30.3	35.8	53.2	141/233	19.95	90.9	107.4	59.85	3*50/25
3SRLCR-105W	35	PW	34.4	41.3	65.5	141/233	23.6	103.2	123.9	70.8	3*70/35
3SRLCR-120W	40	PW	45.7	52.7	83.2	219/362	28.3	137.1	158.1	84.9	3*95/50
3SRLCR-150W	50	PW	60	68.3	92	298/438	34.8	180	204.9	104.4	3*150/70
3SRLCR-180W	60	PW	71.1	80.5	113	349/513	40.8	213.3	241.5	122.4	3*185/70
4SRLCR-80W	20	PW	19.5	22.9	36.7	97/158	13.2	78	91.6	52.8	3*35/16
4SRLCR-100W	25	PW	22	26.5	43.9	97/158	15.6	88	106	62.4	3*50/25
4SRLCR-120W	30	PW	30.3	35.8	53.2	141/233	19.95	121.2	143.2	79.8	3*95/50
4SRLCR-140W	35	PW	34.4	41.3	65.5	141/233	23.6	137.6	165.2	94.4	3*95/50
4SRLCR-160W	40	PW	45.7	52.7	83.2	219/362	28.3	182.8	210.8	113.2	3*150/70
4SRLCR-200W	50	PW	60	68.3	92	298/438	34.8	240	273.2	139.2	3*240/120
4SRLCR-240W	60	PW	71.1	80.5	113	349/513	40.8	284.4	322	163.2	2*(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
- 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 maybe change based on the unit operation condition
- All above data subject to change without notice.

Electrical Data (Cont.)

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

Model	Per Compressor							System			
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	Cable Size
1SRLCS-50W	50	PW	54	65.8	86	218/411	38.9	54	65.8	38.9	3*25/16
1SRLCS-60W	60	PW	66.4	80.6	108	269/508	48.3	66.4	80.6	48.3	3*35/16
1SRLCS-70W	70	PW	78.9	94.9	128	290/485	57.6	78.9	94.9	57.6	3*50/25
1SRLCS-80W	80	PW	89	107.7	144	350/585	65.3	89	107.7	65.3	3*50/25
1SRLCS-90W	90	PW	98.6	119.8	162	423/686	74.3	98.6	119.8	74.3	3*70/35
1SRLCS-110W	110	PW	122.1	150.1	185	520/801	91.2	122.1	150.1	91.2	3*95/50
1SRLCS-125W	125	PW	140.1	172	216	612/943	103.9	140.1	172	103.9	3*120/70
1SRLCS-140W	140	PW	169.3	204	246	665/1023	124.2	169.3	204	124.2	3*150/70
1SRLCS-160W	160	PW	178.6	220	260	729/1114	134.1	178.6	220	134.1	3*150/70
1SRLCS-180W	180	PW	212	257	310	757/1181	152.7	212	257	152.7	3*185/95
1SRLCS-210W	210	Y-D	237	267	370	586/1853	162.6	237	267	162.6	3*240/120
2SRLCS-100W	50	PW	54	65.8	86	218/411	38.9	108	131.6	77.8	3*70/35
2SRLCS-120W	60	PW	66.4	80.6	108	269/508	48.3	132.8	161.2	96.6	3*95/50
2SRLCS-140W	70	PW	78.9	94.9	128	290/485	57.6	157.8	189.8	115.2	3*120/70
2SRLCS-160W	80	PW	89	107.7	144	350/585	65.3	178	215.4	130.6	3*150/70
2SRLCS-180W	90	PW	98.6	119.8	162	423/686	74.3	197.2	239.6	148.6	3*185/95
2SRLCS-220W	110	PW	122.1	150.1	185	520/801	91.2	244.2	300.2	182.4	2*(3*95/50)
2SRLCS-250W	125	PW	140.1	172	216	612/943	103.9	280.2	344	207.8	2*(3*120/70)
2SRLCS-280W	140	PW	169.3	204	246	665/1023	124.2	338.6	408	248.4	2*(3*150/70)
2SRLCS-320W	160	PW	178.6	220	260	729/1114	134.1	357.2	440	268.2	2*(3*150/70)
2SRLCS-360W	180	PW	212	257	310	757/1181	152.7	424	514	305.4	2*(3*185/95)
2SRLCS-420W	210	Y-D	237	267	370	586/1853	162.6	474	534	325.2	2*(3*240/120)
3SRLCS-150W	50	PW	54	65.8	86	218/411	38.9	162	197.4	116.7	3*150/70
3SRLCS-180W	60	PW	66.4	80.6	108	269/508	48.3	199.2	241.8	144.9	3*185/95
3SRLCS-210W	70	PW	78.9	94.9	128	290/485	57.6	236.7	284.7	172.8	3*240/120
3SRLCS-240W	80	PW	89	107.7	144	350/585	65.3	267	323.1	195.9	2*(3*95/50)
3SRLCS-270W	90	PW	98.6	119.8	162	423/686	74.3	295.8	359.4	222.9	2*(3*120/70)
3SRLCS-330W	110	PW	122.1	150.1	185	520/801	91.2	366.3	450.3	273.6	2*(3*150/70)
3SRLCS-375W	125	PW	140.1	172	216	612/943	103.9	420.3	516	311.7	2*(3*185/95)
3SRLCS-420W	140	PW	169.3	204	246	665/1023	124.2	507.9	612	372.6	3*(3*150/70)
4SRLCS-200W	50	PW	54	65.8	86	218/411	38.9	216	263.2	155.6	3*240/120
4SRLCS-240W	60	PW	66.4	80.6	108	269/508	48.3	265.6	322.4	193.2	2*(3*95/50)
4SRLCS-280W	70	PW	78.9	94.9	128	290/485	57.6	315.6	379.6	230.4	2*(3*120/70)
4SRLCS-320W	80	PW	89	107.7	144	350/585	65.3	356	430.8	261.2	2*(3*150/70)
4SRLCS-360W	90	PW	98.6	119.8	162	423/686	74.3	394.4	479.2	297.2	2*(3*185/95)
4SRLCS-440W	110	PW	122.1	150.1	185	520/801	91.2	488.4	600.4	364.8	2*(3*240/120)
4SRLCS-500W	125	PW	140.1	172	216	612/943	103.9	560.4	688	415.6	3*(3*185/95)
4SRLCS-560W	140	PW	169.3	204	246	665/1023	124.2	677.2	816	496.8	3*(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: Water Chiller Electrical Data (Screw Compressor) - R407C

Model	Per Compressor							System			
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	Cable Size
1SRLCS-50W	50	PW	53.4	64.6	86	218/411	38.1	53.4	64.6	38.1	3*25/16
1SRLCS-60W	60	PW	65.7	79.2	108	269/508	47.3	65.7	79.2	47.3	3*35/16
1SRLCS-70W	70	PW	75.4	89.6	128	290/485	53.9	75.4	89.6	53.9	3*50/25
1SRLCS-80W	80	PW	86.2	104.8	144	350/585	63.3	86.2	104.8	63.3	3*50/25
1SRLCS-90W	90	PW	93.7	114.1	162	423/686	70.5	93.7	114.1	70.5	3*70/35
1SRLCS-110W	110	PW	119	147.1	185	520/801	89.1	119	147.1	89.1	3*95/50
1SRLCS-125W	125	PW	136.6	168.5	216	612/943	101.6	136.6	168.5	101.6	3*120/70
1SRLCS-140W	140	PW	154.7	191.2	246	665/1023	116	154.7	191.2	116	3*150/70
1SRLCS-160W	160	PW	170.1	211	260	729/1114	128.3	170.1	211	128.3	3*150/70
1SRLCS-180W	180	PW	201	243	310	757/1181	143.5	201	243	143.5	3*185/95
1SRLCS-210W	210	Y-D	217	258	370	586/1853	157.2	217	258	157.2	3*240/120
2SRLCS-100W	50	PW	53.4	64.6	86	218/411	38.1	106.8	129.2	76.2	3*70/35
2SRLCS-120W	60	PW	65.7	79.2	108	269/508	47.3	131.4	158.4	94.6	3*95/50
2SRLCS-140W	70	PW	75.4	89.6	128	290/485	53.9	150.8	179.2	107.8	3*120/70
2SRLCS-160W	80	PW	86.2	104.8	144	350/585	63.3	172.4	209.6	126.6	3*150/70
2SRLCS-180W	90	PW	93.7	114.1	162	423/686	70.5	187.4	228.2	141	3*185/95
2SRLCS-220W	110	PW	119	147.1	185	520/801	89.1	238	294.2	178.2	2*(3*95/50)
2SRLCS-250W	125	PW	136.6	168.5	216	612/943	101.6	273.2	337	203.2	2*(3*120/70)
2SRLCS-280W	140	PW	154.7	191.2	246	665/1023	116	309.4	382.4	232	2*(3*120/70)
2SRLCS-320W	160	PW	170.1	211	260	729/1114	128.3	340.2	422	256.6	2*(3*150/70)
2SRLCS-360W	180	PW	201	243	310	757/1181	143.5	402	486	287	2*(3*185/95)
2SRLCS-420W	210	Y-D	217	258	370	586/1853	157.2	434	516	314.4	2*(3*240/120)
3SRLCS-150W	50	PW	53.4	64.6	86	218/411	38.1	160.2	193.8	114.3	3*150/70
3SRLCS-180W	60	PW	65.7	79.2	108	269/508	47.3	197.1	237.6	141.9	3*185/95
3SRLCS-210W	70	PW	75.4	89.6	128	290/485	53.9	226.2	268.8	161.7	3*240/120
3SRLCS-240W	80	PW	86.2	104.8	144	350/585	63.3	258.6	314.4	189.9	2*(3*95/50)
3SRLCS-270W	90	PW	93.7	114.1	162	423/686	70.5	281.1	342.3	211.5	2*(3*120/70)
3SRLCS-330W	110	PW	119	147.1	185	520/801	89.1	357	441.3	267.3	2*(3*150/70)
3SRLCS-375W	125	PW	136.6	168.5	216	612/943	101.6	409.8	505.5	304.8	2*(3*185/95)
3SRLCS-420W	140	PW	154.7	191.2	246	665/1023	116	464.1	573.6	348	3*(3*150/70)
4SRLCS-200W	50	PW	53.4	64.6	86	218/411	38.1	213.6	258.4	152.4	3*240/120
4SRLCS-240W	60	PW	65.7	79.2	108	269/508	47.3	262.8	316.8	189.2	2*(3*95/50)
4SRLCS-280W	70	PW	75.4	89.6	128	290/485	53.9	301.6	358.4	215.6	2*(3*120/70)
4SRLCS-320W	80	PW	86.2	104.8	144	350/585	63.3	344.8	419.2	253.2	2*(3*150/70)
4SRLCS-360W	90	PW	93.7	114.1	162	423/686	70.5	374.8	456.4	282	2*(3*185/95)
4SRLCS-440W	110	PW	119	147.1	185	520/801	89.1	476	588.4	356.4	2*(3*240/120)
4SRLCS-500W	125	PW	136.6	168.5	216	612/943	101.6	546.4	674	406.4	3*(3*185/95)
4SRLCS-560W	140	PW	154.7	191.2	246	665/1023	116	618.8	764.8	464	3*(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.)

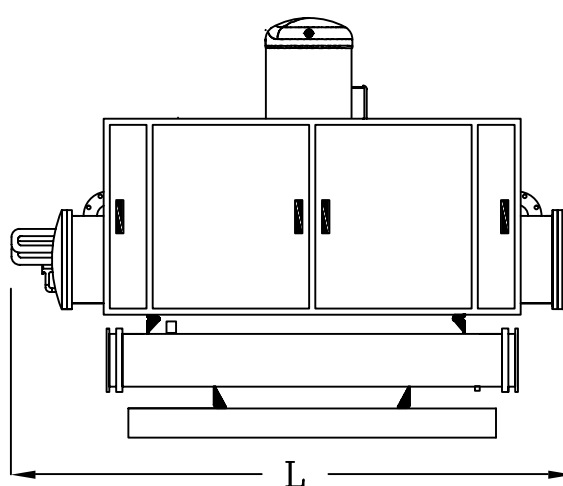
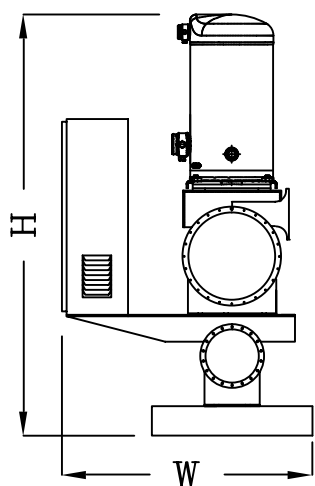
Table 15c: Water Chiller Electrical Data (Screw Compressor) - R134a

Model	Per Compressor							System			
	HP	Starting Type	RLA	FLA	MOC	LRA	MPI	RLA	FLA	MPI	Cable Size
1SRLCS-50W	50	PW	50.3	60.2	79	206/355	35.1	50.3	60.2	35.1	3*25/16
1SRLCS-60W	60	PW	58.6	69.6	98	267/449	40.5	58.6	69.6	40.5	3*25/16
1SRLCS-70W	70	PW	65.7	78.5	124	290/485	46	65.7	78.5	46	3*35/16
1SRLCS-80W	80	PW	72.5	87.6	144	394/606	55.4	72.5	87.6	55.4	3*50/25
1SRLCS-90W	90	PW	84.5	102.7	155	439/675	63.2	84.5	102.7	63.2	3*50/25
1SRLCS-110W	110	PW	101.2	121.3	182	520/801	71.8	101.2	121.3	71.8	3*70/35
1SRLCS-125W	125	PW	115.2	137.5	196	612/943	80.7	115.2	137.5	80.7	3*70/35
1SRLCS-140W	140	PW	129.8	155.3	214	665/1023	91.8	129.8	155.3	91.8	3*95/50
1SRLCS-160W	160	Y-D	145.8	172.8	280	436/1364	104.8	145.8	172.8	104.8	3*120/70
1SRLCS-180W	180	Y-D	161.7	195.1	310	465/1442	120.8	161.7	195.1	120.8	3*150/70
1SRLCS-210W	210	Y-D	192.6	230	320	586/1853	138	192.6	230	138	3*185/95
2SRLCS-100W	50	PW	50.3	60.2	79	206/355	35.1	100.6	120.4	70.2	3*70/35
2SRLCS-120W	60	PW	58.6	69.6	98	267/449	40.5	117.2	139.2	81	3*70/35
2SRLCS-140W	70	PW	65.7	78.5	124	290/485	46	131.4	157	92	3*95/50
2SRLCS-160W	80	PW	72.5	87.6	144	394/606	55.4	145	175.2	110.8	3*120/70
2SRLCS-180W	90	PW	84.5	102.7	155	439/675	63.2	169	205.4	126.4	3*150/70
2SRLCS-220W	110	PW	101.2	121.3	182	520/801	71.8	202.4	242.6	143.6	3*185/95
2SRLCS-250W	125	PW	115.2	137.5	196	612/943	80.7	230.4	275	161.4	3*240/120
2SRLCS-280W	140	PW	129.8	155.3	214	665/1023	91.8	259.6	310.6	183.6	2*(3*95/50)
2SRLCS-320W	160	Y-D	145.8	172.8	280	436/1364	104.8	291.6	345.6	209.6	2*(3*120/70)
2SRLCS-360W	180	Y-D	161.7	195.1	310	465/1442	120.8	323.4	390.2	241.6	2*(3*150/70)
2SRLCS-420W	210	Y-D	192.6	230	320	586/1853	138	385.2	460	276	2*(3*185/95)
3SRLCS-150W	50	PW	50.3	60.2	79	206/355	35.1	150.9	180.6	105.3	3*120/70
3SRLCS-180W	60	PW	58.6	69.6	98	267/449	40.5	175.8	208.8	121.5	3*150/70
3SRLCS-210W	70	PW	65.7	78.5	124	290/485	46	197.1	235.5	138	3*185/95
3SRLCS-240W	80	PW	72.5	87.6	144	394/606	55.4	217.5	262.8	166.2	3*240/120
3SRLCS-270W	90	PW	84.5	102.7	155	439/675	63.2	253.5	308.1	189.6	2*(3*95/50)
3SRLCS-330W	110	PW	101.2	121.3	182	520/801	71.8	303.6	363.9	215.4	2*(3*120/70)
3SRLCS-375W	125	PW	115.2	137.5	196	612/943	80.7	345.6	412.5	242.1	2*(3*150/70)
3SRLCS-420W	140	PW	129.8	155.3	214	665/1023	91.8	389.4	465.9	275.4	2*(3*185/95)
4SRLCS-200W	50	PW	50.3	60.2	79	206/355	35.1	201.2	240.8	140.4	3*185/95
4SRLCS-240W	60	PW	58.6	69.6	98	267/449	40.5	234.4	278.4	162	3*240/120
4SRLCS-280W	70	PW	65.7	78.5	124	290/485	46	262.8	314	184	2*(3*95/50)
4SRLCS-320W	80	PW	72.5	87.6	144	394/606	55.4	290	350.4	221.6	2*(3*120/70)
4SRLCS-360W	90	PW	84.5	102.7	155	439/675	63.2	338	410.8	252.8	2*(3*150/70)
4SRLCS-440W	110	PW	101.2	121.3	182	520/801	71.8	404.8	485.2	287.2	2*(3*185/95)
4SRLCS-500W	125	PW	115.2	137.5	196	612/943	80.7	460.8	550	322.8	2*(3*240/120)
4SRLCS-560W	140	PW	129.8	155.3	214	665/1023	91.8	519.2	621.2	367.2	3*(3*150/70)

NOTE

- System Power Supply: 380~400V/3 ϕ /50HZ
- RLA: Rated Load Ampere
- FLA: Full Load Ampere
- MOC: Maximum Operating Current
- LRA: Lock Rotor Ampere
- MPI: Maximum Power Input (kW)
- PW: Part Winding Start Type
- 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

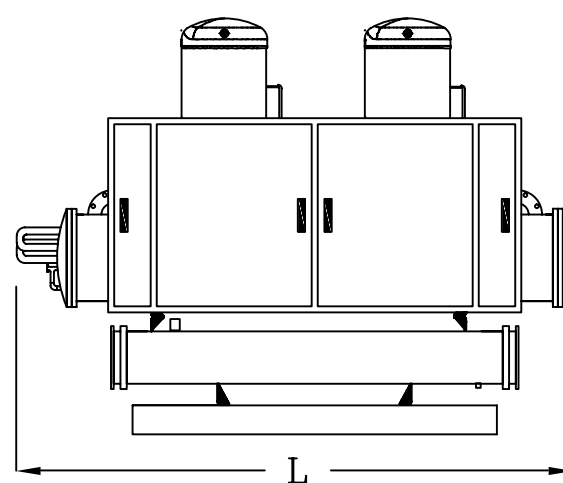
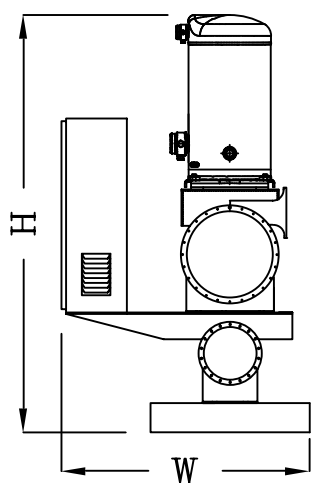


Scroll Compressor (R22 , R407C)

Model	L	W	H	Connections	
				Evaporator	Condenser
1SRLCH-5W	1350	900	1300	2×1 1/2"	2×1 1/4"
1SRLCH-7.5W	1350	900	1350	2×1 1/2"	2×1 1/4"
1SRLCH-10W	1400	900	1350	2×2"	2×2"
1SRLCH-15W	1400	1050	1650	2×2"	2×2"
1SRLCH-20W	1450	1050	1650	2×2 1/2"	2×2 1/2"
1SRLCH-25W	1450	1050	1650	2×2 1/2"	2×2 1/2"
1SRLCH-30W	1950	1050	1700	2×3"	2×2 1/2"

Scroll Compressor (R134a)

Model	L	W	H	Connections	
				Evaporator	Condenser
1SRLCH-5W	1350	900	1300	2×1 1/2"	2×1 1/4"
1SRLCH-7.5W	1350	900	1350	2×1 1/2"	2×1 1/4"
1SRLCH-10W	1400	900	1350	2×1 1/2"	2×1 1/4"
1SRLCH-15W	1400	1050	1600	2×2"	2×2"
1SRLCH-20W	1450	1050	1650	2×2"	2×2"
1SRLCH-25W	1450	1050	1650	2×2 1/2"	2×2 1/2"
1SRLCH-30W	1950	1050	1700	2×2 1/2"	2×2 1/2"



Scroll Compressor (R22 , R407C)

Model	L	W	H	Connections	
				Evaporator	Condenser
2SRLCH-10W	1950	900	1350	2×2"	4×1 1/4"
2SRLCH-15W	1950	900	1420	2×2"	4×1 1/4"
2SRLCH-20W	1950	900	1420	2×2 1/2"	4×2"
2SRLCH-30W	1950	1000	1650	2×3"	4×2"
2SRLCH-40W	1950	1050	1700	2×3"	4×2 1/2"
2SRLCH-50W	1950	1050	1750	2×3"	4×2 1/2"
2SRLCH-60W	1950	1050	1800	2×3"	4×2 1/2"

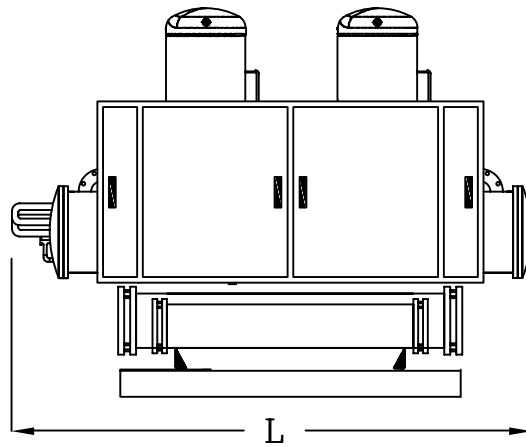
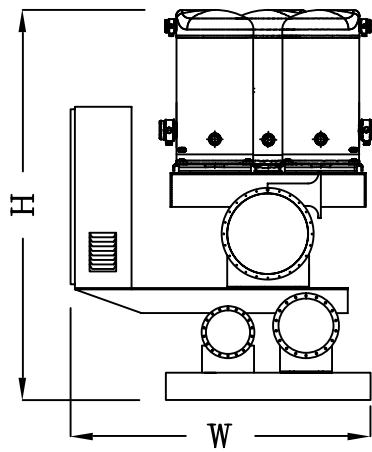
Scroll Compressor (R134a)

Model	L	W	H	Connections	
				Evaporator	Condenser
2SRLCH-10W	1950	900	1350	2×2"	4×1 1/4"
2SRLCH-15W	1950	900	1420	2×2"	4×1 1/4"
2SRLCH-20W	1950	900	1420	2×2"	4×1 1/4"
2SRLCH-30W	1950	1000	1650	2×2 1/2"	4×2"
2SRLCH-40W	1950	1050	1650	2×3"	4×2"
2SRLCH-50W	1950	1050	1750	2×3"	4×2 1/2"
2SRLCH-60W	1950	1050	1800	2×3"	4×2 1/2"

NOTE

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

Dimensions (Cont.)

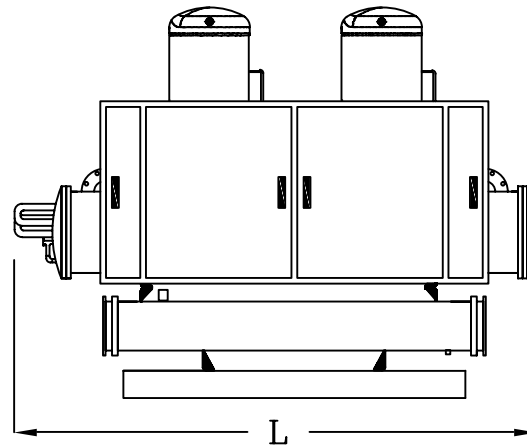
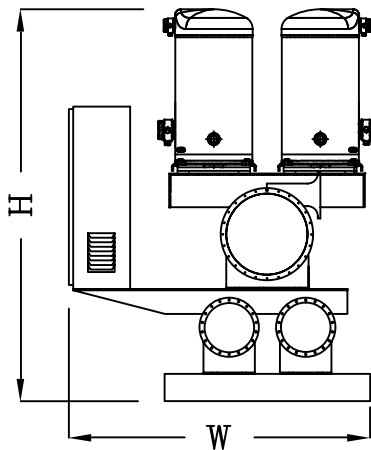


Scroll Compressor (R22 , R407C)

Model	L	W	H	Connections	
				Evaporator	Condenser
3SRLCH-60W	2600	1450	1750	2×3"	2×2 1/2" 2×3"
3SRLCH-75W	2600	1450	1800	2×4"	2×2 1/2" 2×3"
3SRLCH-90W	2600	1450	1900	2×4"	2×2 1/2" 2×3"

Scroll Compressor (R134a)

Model	L	W	H	Connections	
				Evaporator	Condenser
3SRLCH-60W	2600	1450	1750	2×3"	2×2" 2×2 1/2"
3SRLCH-75W	2600	1450	1800	2×3"	2×2 1/2" 2×3"
3SRLCH-90W	2600	1450	1850	2×4"	2×2 1/2" 2×3"



Scroll Compressor (R22 , R407C)

Model	L	W	H	Connections	
				Evaporator	Condenser
4SRLCH-60W	2000	1400	1750	2×3"	4×2 1/2"
4SRLCH-80W	2600	1450	1800	2×4"	4×3"
4SRLCH-100W	2600	1450	1950	2×4"	4×3"
4SRLCH-120W	2600	1450	1950	2×5"	4×3"

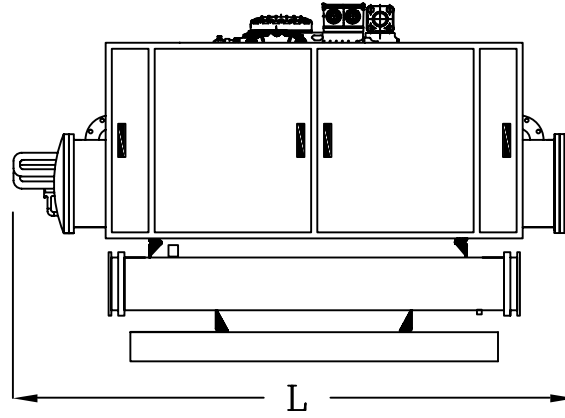
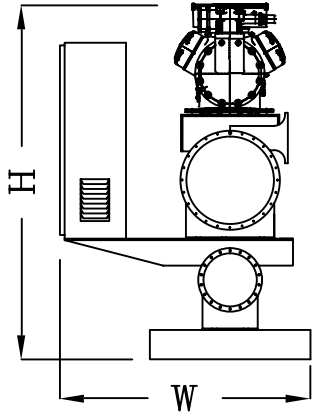
Scroll Compressor (R134a)

Model	L	W	H	Connections	
				Evaporator	Condenser
4SRLCH-60W	2000	1400	1750	2×3"	4×2 1/2"
4SRLCH-80W	2600	1450	1750	2×3"	4×2 1/2"
4SRLCH-100W	2600	1450	1900	2×4"	4×3"
4SRLCH-120W	2600	1450	1950	2×4"	4×3"

NOTE

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

Dimensions (Cont.)

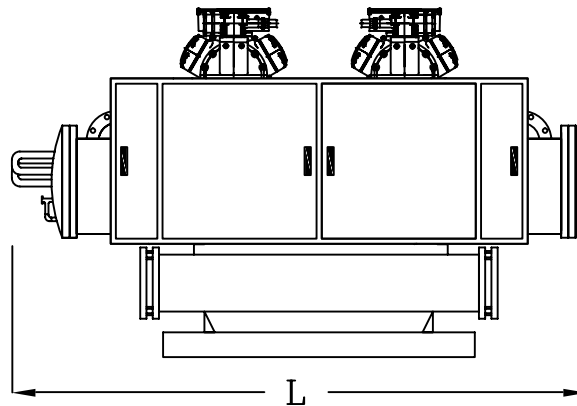
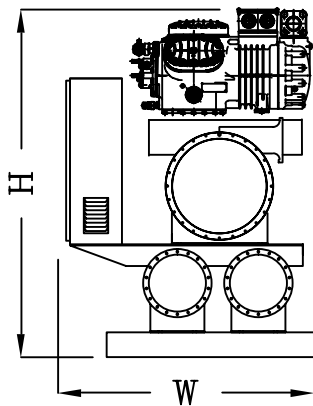


Reciprocating Compressor (R22 , R407C)

Model	L	W	H	Connections	
				Evaporator	Condenser
1SRLCR-5W	1350	900	1250	2×1 1/2"	2×1 1/4"
1SRLCR-7.5W	1350	900	1250	2×1 1/2"	2×1 1/4"
1SRLCR-10W	1400	900	1250	2×2"	2×2"
1SRLCR-15W	1400	900	1350	2×2"	2×2"
1SRLCR-20W	1450	900	1350	2×2 1/2"	2×2 1/2"
1SRLCR-25W	1450	1050	1400	2×2 1/2"	2×2 1/2"
1SRLCR-30W	1950	1050	1400	2×3"	2×2 1/2"
1SRLCR-35W	1950	1100	1450	2×3"	2×2 1/2"
1SRLCR-40W	1950	1100	1450	2×3"	2×3"
1SRLCR-50W	2500	1100	1500	2×3"	2×3"
1SRLCR-60W	2500	1100	1600	2×3"	2×3"

Reciprocating Compressor (R134a)

Model	L	W	H	Connections	
				Evaporator	Condenser
1SRLCR-5W	1350	900	1250	2×1 1/2"	2×1 1/4"
1SRLCR-7.5W	1350	900	1250	2×1 1/2"	2×1 1/4"
1SRLCR-10W	1400	900	1250	2×2"	2×2"
1SRLCR-15W	1400	900	1350	2×2"	2×2"
1SRLCR-20W	1450	1050	1400	2×2 1/2"	2×2 1/2"
1SRLCR-25W	1450	1050	1400	2×2 1/2"	2×2 1/2"
1SRLCR-30W	1950	1100	1400	2×3"	2×2 1/2"
1SRLCR-35W	1950	1100	1450	2×3"	2×2 1/2"
1SRLCR-40W	1950	1100	1450	2×3"	2×3"
1SRLCR-50W	2500	1100	1600	2×3"	2×3"
1SRLCR-60W	2500	1100	1600	2×3"	2×3"



Reciprocating Compressor (R22 , R407C)

Model	L	W	H	Connections	
				Evaporator	Condenser
2SRLCR-10W	1950	1000	1270	2×2"	4×1 1/4"
2SRLCR-15W	1950	1000	1270	2×2"	4×1 1/4"
2SRLCR-20W	1950	1200	1300	2×2 1/2"	4×2"
2SRLCR-30W	1950	1200	1350	2×3"	4×2"
2SRLCR-40W	1950	1200	1400	2×3"	4×2 1/2"
2SRLCR-50W	1950	1300	1500	2×3"	4×2 1/2"
2SRLCR-60W	1950	1300	1500	2×3"	4×2 1/2"
2SRLCR-70W	2500	1350	1500	2×4"	4×2 1/2"
2SRLCR-80W	2500	1350	1550	2×4"	4×3"
2SRLCR-100W	2600	1350	1650	2×4"	4×3"
2SRLCR-120W	2600	1450	1750	2×5"	4×3"

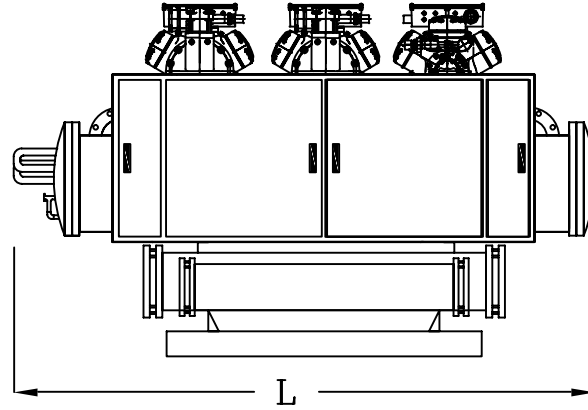
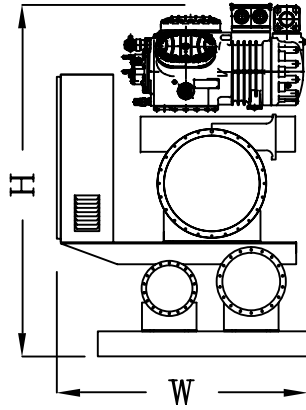
Reciprocating Compressor (R134a)

Model	L	W	H	Connections	
				Evaporator	Condenser
2SRLCR-10W	1950	1000	1270	2×2"	4×1 1/4"
2SRLCR-15W	1950	1150	1300	2×2"	4×1 1/4"
2SRLCR-20W	1950	1200	1300	2×2 1/2"	4×2"
2SRLCR-30W	1950	1200	1350	2×3"	4×2"
2SRLCR-40W	1950	1250	1450	2×3"	4×2 1/2"
2SRLCR-50W	1950	1250	1500	2×3"	4×2 1/2"
2SRLCR-60W	1950	1350	1500	2×3"	4×2 1/2"
2SRLCR-70W	2500	1350	1500	2×4"	4×2 1/2"
2SRLCR-80W	2500	1350	1550	2×4"	4×3"
2SRLCR-100W	2600	1450	1750	2×4"	4×3"
2SRLCR-120W	2600	1450	1750	2×5"	4×3"

NOTE

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

Dimensions (Cont.)

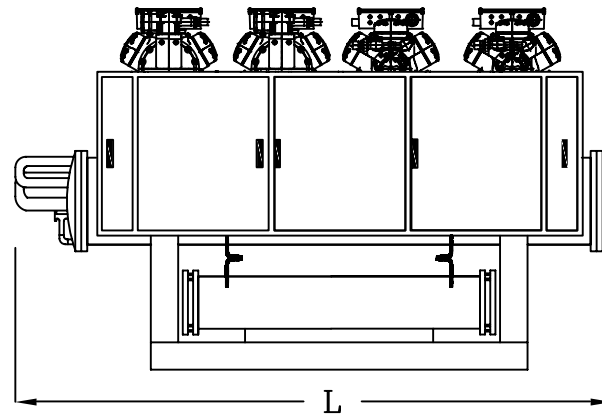
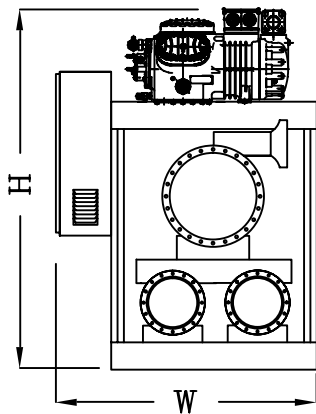


Reciprocating Compressor (R22 , R407C)

Reciprocating Compressor (R134a)

Model	L	W	H	Connections	
				Evaporator	Condenser
3SRLCR-60W	2600	1200	1450	2×3"	2×2 1/2" 2×3"
3SRLCR-75W	2600	1300	1850	2×4"	2×2 1/2" 2×3"
3SRLCR-90W	2600	1300	1900	2×4"	2×2 1/2" 2×3"
3SRLCR-105W	2600	1370	2000	2×5"	2×2 1/2" 2×3"
3SRLCR-120W	2600	1370	2000	2×5"	4×3"
3SRLCR-150W	3650	1370	2050	2×5"	2×3" 2×4"
3SRLCR-180W	3650	1500	2150	2×6"	2×3" 2×5"

Model	L	W	H	Connections	
				Evaporator	Condenser
3SRLCR-60W	2600	1300	1800	2×3"	2×2 1/2" 2×3"
3SRLCR-75W	2600	1300	1850	2×4"	2×2 1/2" 2×3"
3SRLCR-90W	2600	1370	1900	2×4"	2×2 1/2" 2×3"
3SRLCR-105W	2600	1370	2000	2×5"	2×2 1/2" 2×3"
3SRLCR-120W	2600	1370	2000	2×5"	4×3"
3SRLCR-150W	3650	1500	2150	2×5"	2×3" 2×4"
3SRLCR-180W	3650	1500	2150	2×6"	2×3" 2×5"



Reciprocating Compressor (R22 , R407C)

Reciprocating Compressor (R134a)

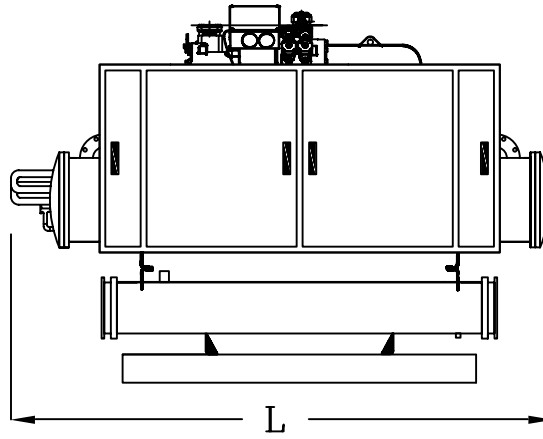
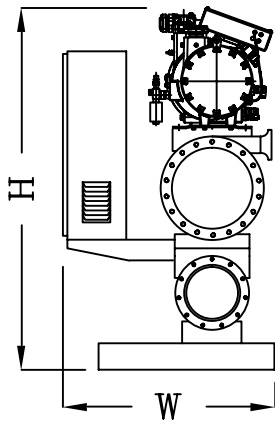
Model	L	W	H	Connections	
				Evaporator	Condenser
4SRLCR-80W	2600	1250	1850	2×4"	4×3"
4SRLCR-100W	2600	1300	2000	2×4"	4×3"
4SRLCR-120W	2600	1300	2000	2×5"	4×3"
4SRLCR-140W	3650	1370	2000	2×5"	4×3"
4SRLCR-160W	3650	1370	2000	2×5"	4×3"
4SRLCR-200W	4700	1370	2100	2×6"	4×4"
4SRLCR-240W	4700	1500	2300	2×6"	4×4"

Model	L	W	H	Connections	
				Evaporator	Condenser
4SRLCR-80W	2600	1300	1900	2×4"	4×3"
4SRLCR-100W	2600	1300	1950	2×4"	4×3"
4SRLCR-120W	2600	1370	2000	2×5"	4×3"
4SRLCR-140W	3650	1370	2000	2×5"	4×3"
4SRLCR-160W	3650	1370	2000	2×5"	4×3"
4SRLCR-200W	4700	1500	2200	2×6"	4×4"
4SRLCR-240W	4700	1500	2300	2×6"	4×4"

NOTE

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

Dimensions (Cont.)

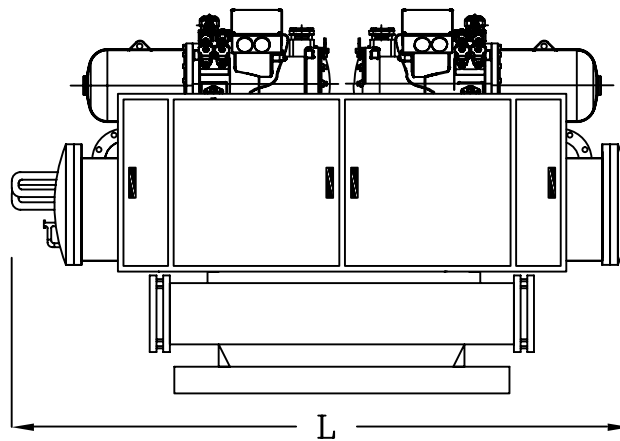
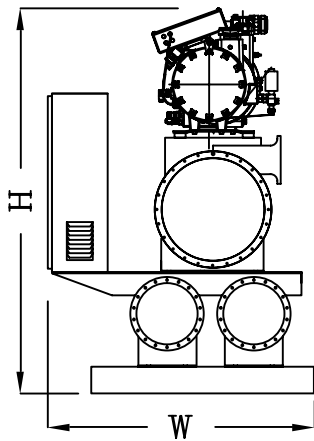


Screw Compressor (R22 , R407C)

Model	L	W	H	Connections	
				Evaporator	Condenser
1SRLCS-50W	2500	1100	1620	2×3"	2×3"
1SRLCS-60W	2500	1100	1620	2×3"	2×3"
1SRLCS-70W	2500	1150	1700	2×4"	2×3"
1SRLCS-80W	2500	1150	1750	2×4"	2×3"
1SRLCS-90W	2500	1150	1800	2×4"	2×4"
1SRLCS-110W	2600	1270	2000	2×5"	2×4"
1SRLCS-125W	2600	1270	2050	2×5"	2×5"
1SRLCS-140W	3600	1270	2050	2×5"	2×5"

Screw Compressor (R134a)

Model	L	W	H	Connections	
				Evaporator	Condenser
1SRLCS-50W	2500	1150	1620	2×3"	2×3"
1SRLCS-60W	2500	1150	1620	2×3"	2×3"
1SRLCS-70W	2500	1150	1700	2×4"	2×3"
1SRLCS-80W	2500	1270	1900	2×4"	2×3"
1SRLCS-90W	2500	1270	1950	2×4"	2×4"
1SRLCS-110W	2600	1270	2000	2×5"	2×4"
1SRLCS-125W	2600	1270	2050	2×5"	2×5"
1SRLCS-140W	3600	1270	2050	2×5"	2×5"



Screw Compressor (R22 , R407C)

Model	L	W	H	Connections	
				Evaporator	Condenser
2SRLCS-100W	2600	1250	1750	2×4"	4×3"
2SRLCS-120W	2600	1250	1750	2×5"	4×3"
2SRLCS-140W	3600	1300	1750	2×5"	4×3"
2SRLCS-160W	3600	1300	1820	2×5"	4×3"
2SRLCS-180W	3600	1300	1900	2×6"	4×4"
2SRLCS-220W	4650	1450	2050	2×6"	4×4"
2SRLCS-250W	4650	1450	2100	2×6"	4×5"
2SRLCS-280W	4650	1450	2100	2×6"	4×5"

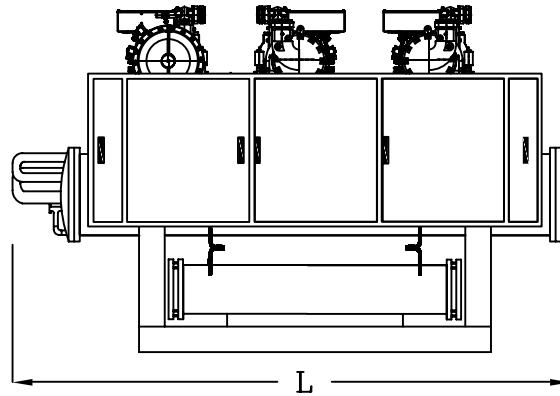
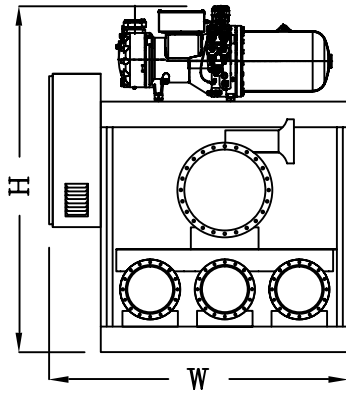
Screw Compressor (R134a)

Model	L	W	H	Connections	
				Evaporator	Condenser
2SRLCS-100W	2600	1300	1750	2×4"	4×3"
2SRLCS-120W	2600	1300	1750	2×5"	4×3"
2SRLCS-140W	3600	1300	1750	2×5"	4×3"
2SRLCS-160W	3600	1450	1950	2×5"	4×3"
2SRLCS-180W	3600	1450	2050	2×6"	4×4"
2SRLCS-220W	4650	1450	2050	2×6"	4×4"
2SRLCS-250W	4650	1450	2100	2×6"	4×5"
2SRLCS-280W	4650	1450	2100	2×6"	4×5"

NOTE

- All dimensions are in millimeter.
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Dimensions (Cont.)

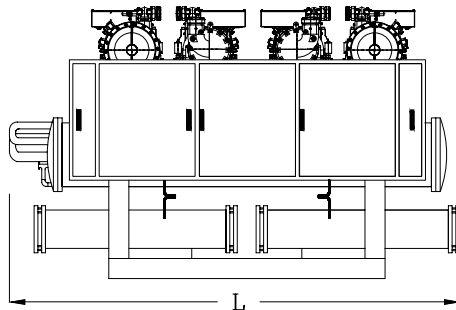
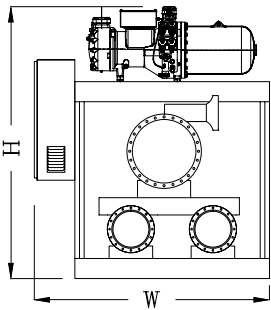


Screw Compressor (R22 , R407C)

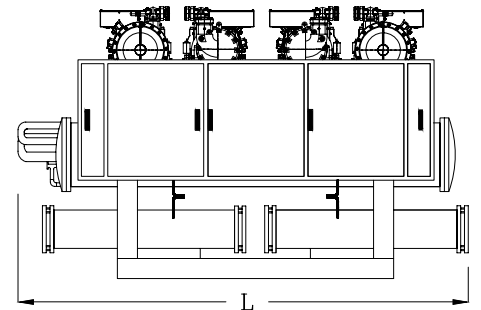
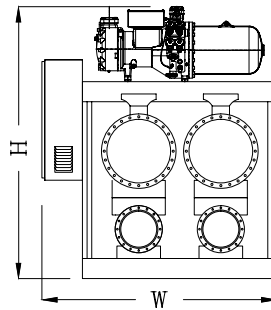
Screw Compressor (R134a)

Model	L	W	H	Connections	
				Evaporator	Condenser
3SRLCS-150W	3650	1600	2100	2×5"	6×3"
3SRLCS-180W	3650	1600	2100	2×6"	6×3"
3SRLCS-210W	3650	1750	2200	2×6"	6×3"
3SRLCS-240W	4650	1750	2200	2×6"	6×3"
3SRLCS-270W	4650	1800	2250	2×6"	6×4"

Model	L	W	H	Connections	
				Evaporator	Condenser
3SRLCS-150W	3650	1600	2000	2×5"	6×3"
3SRLCS-180W	3650	1600	2000	2×6"	6×3"
3SRLCS-210W	3650	1750	2150	2×6"	6×3"
3SRLCS-240W	4650	1850	2300	2×6"	6×3"
3SRLCS-270W	4650	1850	2350	2×6"	6×4"



(4SRLCS-200W~4SRLCS-280W)



(4SRLCS-320W~4SRLCS-560W)

Screw Compressor (R22 , R407C)

Screw Compressor (R134a)

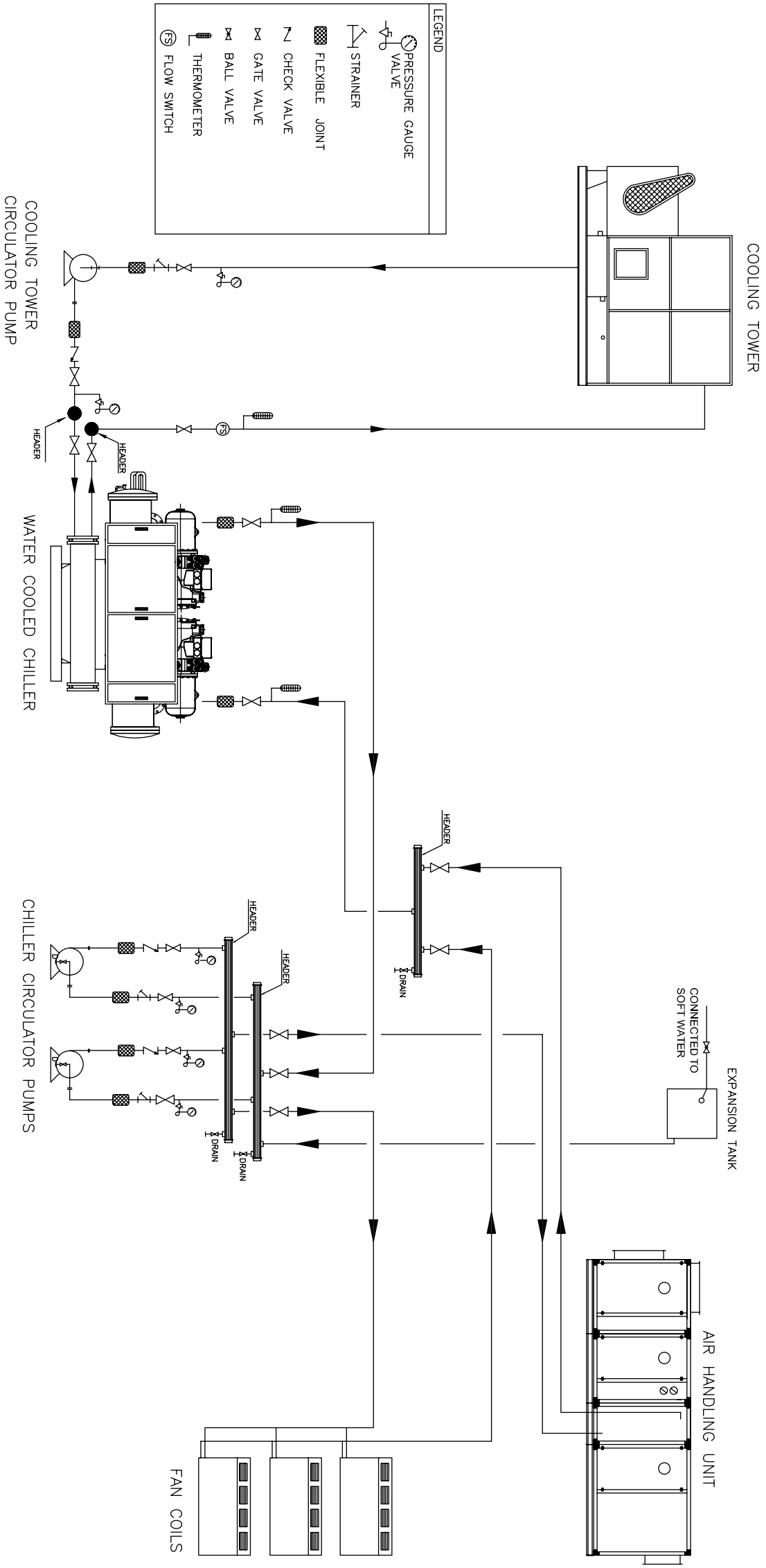
Model	L	W	H	Connections	
				Evaporator	Condenser
4SRLCS-200W	4700	1420	2100	2×6"	8×3"
4SRLCS-240W	4700	1420	2100	2×6"	8×3"
4SRLCS-280W	4700	1670	2150	2×6"	8×3"
4SRLCS-320W	3700	1670	2150	4×5"	8×3"
4SRLCS-360W	3700	1820	2200	4×6"	8×4"
4SRLCS-440W	5050	2170	2750	4×6"	8×4"
4SRLCS-500W	5050	2170	2750	4×6"	8×5"
4SRLCS-560W	5050	2170	2750	4×6"	8×5"

Model	L	W	H	Connections	
				Evaporator	Condenser
4SRLCS-200W	4700	1670	2120	2×6"	8×3"
4SRLCS-240W	4700	1670	2120	2×6"	8×3"
4SRLCS-280W	4700	1670	2120	2×6"	8×3"
4SRLCS-320W	3700	1850	2300	4×5"	8×3"
4SRLCS-360W	3700	1850	2350	4×6"	8×4"
4SRLCS-440W	5050	2170	2750	4×6"	8×4"
4SRLCS-500W	5050	2170	2750	4×6"	8×5"
4SRLCS-560W	5050	2170	2750	4×6"	8×5"

NOTE

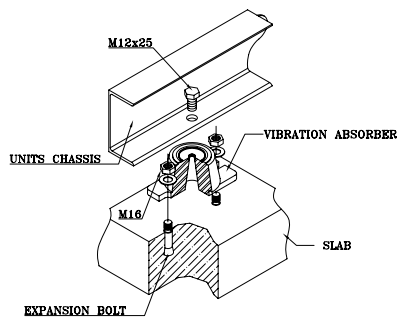
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Typical Piping Diagram

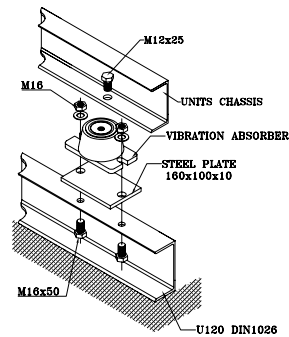


Installation Recommendation

- 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:



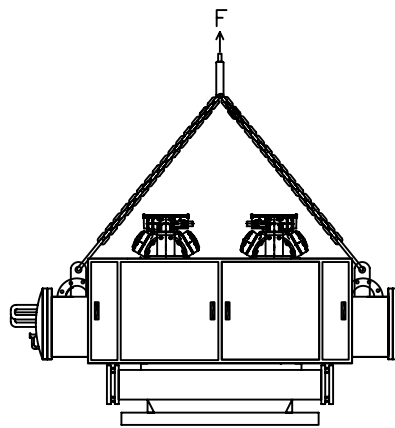
ARMoured CEMENT FOUNDATION



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

