

SUPPLEMENTAL CHARGING INFORMATION

SINGLE SPEED AIR CONDITIONERS

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CHARGING THE UNIT IN AC MODE

NOTE: Quick connect air conditioners are shipped fully charged with R410A refrigerant and ready for installation and in normal circumstances no refrigerant charging is required. The instructions below are intended for brazed systems or for systems that need to be charged during service calls.

If the outdoor temperature is 65 degrees F or higher:

After completing the refrigerant line connections, leak checking the system, and evacuating the indoor section and all line connections (using proper methods), perform the following steps:

1. Determine the recommended charge addition (if applicable) for the system being installed. This information is in the unit's QRD (Quick Reference Data sheet).
2. Calculate the amount of additional refrigerant needed for the line set length of the actual installation. This information is on the first page of the unit's QRD (Quick Reference Data sheet).
3. Weigh in the additional charge amounts determined by step 1 and 2 above.
4. Adjust the charge to match the superheat (for fixed orifice systems) or subcooling (for TXV systems). There are three different resources for doing this:
 - a.) The chargecalculator.com website. This will walk you through the charging process step by step.
 - b.) The charging tables on the inside of the outdoor unit's electrical box cover panel. These tables provide superheat targets for fixed orifice systems and subcooling targets for TXV systems. The system should be charged so that the measured superheat/subcooling are within 1 degree F of the target listed in the table.

For fixed orifice systems:

- If your measured superheat at the suction valve is **LESS THAN** the recommended superheat value in the table then **REMOVE** refrigerant.
- If your measured superheat at the suction valve is **GREATER THAN** the recommended superheat value in the table then **ADD** refrigerant.

For TXV systems:

- If your measured subcooling at the liquid valve is **LESS THAN** the recommended subcooling value in the table then **ADD** refrigerant.
 - If your measured subcooling at the liquid valve is **GREATER THAN** the recommended subcooling value in the table then **REMOVE** refrigerant.
- c.) The charging tables in the Supplemental Charging Information, can be found online in the literature library. The tables can also be accessed by scanning the QR code on the unit's electrical panel. The pressures listed in these tables are for reference only and are to be used in troubleshooting a system. **The system should be charged to match the superheat or subcooling targets as previously noted and not to match the system pressures.** Follow the same procedure described in 4b above.

If the outdoor temperature is below 65 degrees F:

After completing the refrigerant line connections, leak checking the system, and evacuating the indoor section and all line connections (using proper methods), perform the following steps:

1. Determine the recommended charge addition (if applicable) for the system being installed. This information is in the unit's QRD (Quick Reference Data sheet).
2. Calculate the amount of additional refrigerant needed for the line set length of the actual installation. This information is on the first page of the unit's QRD (Quick Reference Data sheet).
3. Weigh in the additional charge amounts determined by steps 1 and 2 above.

***SA(1,2)(B,Q)D4M1SN18K W/ FIXED ORIFICE INDOOR UNIT
(1.5 TON / SCROLL COMPRESSOR)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	14.3	14.3	14.3	14.2	14.1	14.1	14.7	15.3	16.6	18.5	20.5
		LIQ. PRESS.	228	229	230	231	230	229	228	226	228	234	240
		SUC. PRESS.	117	120	123	124	123	122	116	110	109	113	117
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	14.0	14.0	13.9	13.9	13.8	13.8	14.5	15.2	16.5	18.5	20.5
		LIQ. PRESS.	249	250	251	251	252	252	251	250	251	256	261
		SUC. PRESS.	119	122	125	126	127	128	124	120	117	117	117
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	13.7	13.6	13.6	13.6	13.6	13.6	14.3	15.0	16.4	18.5	20.6
		LIQ. PRESS.	269	270	271	272	273	274	274	274	275	278	282
		SUC. PRESS.	122	124	126	129	131	133	131	129	125	122	118
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	13.4	13.3	13.2	13.2	13.3	13.3	14.1	14.8	16.3	18.4	20.6	
	LIQ. PRESS.	290	291	291	293	295	297	297	297	299	301	303	
	SUC. PRESS.	125	126	128	131	135	139	138	138	133	126	118	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	13.1	13.0	12.9	12.9	13.0	13.0	13.8	14.6	16.2	18.4	20.7	
	LIQ. PRESS.	312	313	313	315	317	319	321	323	325	328	330	
	SUC. PRESS.	127	128	130	133	137	141	143	144	141	135	129	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	12.8	12.7	12.6	12.6	12.7	12.7	13.6	14.5	16.1	18.4	20.7	
	LIQ. PRESS.	335	335	336	337	339	342	345	348	351	354	358	
	SUC. PRESS.	129	130	131	134	139	143	147	150	149	144	139	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	12.6	12.5	12.4	12.3	12.4	13.5	13.4	14.3	16.0	18.4	20.8	
	LIQ. PRESS.	359	359	360	361	363	367	369	372	376	381	387	
	SUC. PRESS.	131	132	133	136	140	144	149	153	153	150	148	
95	SH	5.0	5.0	5.0	5.8	7.3	10.7	11.2	13.7	16.4	19.5	22.9	
	SC	12.3	12.2	12.1	12.1	12.2	14.3	13.3	14.2	15.9	18.4	20.9	
	LIQ. PRESS.	383	383	384	385	387	393	393	396	401	408	416	
	SUC. PRESS.	133	134	134	137	142	145	151	155	157	157	156	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	12.1	12.0	11.8	11.8	11.9	13.1	13.1	14.1	15.9	18.4	21.0	
	LIQ. PRESS.	409	409	409	410	412	416	418	421	427	435	443	
	SUC. PRESS.	135	135	136	139	143	147	152	157	160	161	162	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	11.9	11.7	11.6	11.6	11.7	11.8	12.9	14.0	15.8	18.5	21.1	
	LIQ. PRESS.	435	434	434	435	437	440	443	447	453	462	471	
	SUC. PRESS.	137	137	137	140	145	149	154	159	162	164	167	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	11.7	11.5	11.3	11.3	11.5	11.6	12.7	13.8	15.8	18.5	21.2	
	LIQ. PRESS.	461	461	461	462	464	467	471	475	482	493	503	
	SUC. PRESS.	139	139	139	141	146	151	155	160	164	167	170	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	11.5	11.3	11.1	11.1	11.2	11.4	12.6	13.7	15.7	18.4	21.2	
	LIQ. PRESS.	488	488	487	488	491	494	498	503	512	523	535	
	SUC. PRESS.	141	141	141	143	148	152	157	161	165	169	172	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve

-Subcooling tolerance is ± 1°F

-Superheat tolerance is ± 1°F

-The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.

-Boxed data point is the performance rated condition

-Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)D4M1SN18K W/ TXV INDOOR UNIT
(1.5 TON / SCROLL COMPRESSOR)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.6	8.7	8.6	8.5	8.3	8.1	7.8	7.6	7.4	7.2	7.0
		LIQ. PRESS.	218	219	220	221	223	225	226	228	230	233	235
		SUC. PRESS.	125	127	129	133	138	143	148	153	159	164	170
	65	SC	8.7	8.7	8.7	8.6	8.4	8.2	8.0	7.8	7.6	7.4	7.3
		LIQ. PRESS.	238	239	239	241	242	244	246	248	250	252	254
		SUC. PRESS.	126	128	130	134	139	144	149	154	159	165	170
	70	SC	8.9	9.0	8.9	8.8	8.6	8.5	8.3	8.1	8.0	7.9	7.8
		LIQ. PRESS.	257	258	259	260	262	264	266	268	270	272	274
		SUC. PRESS.	127	129	131	135	140	145	150	155	160	165	171
	75	SC	9.3	9.3	9.2	9.1	9.0	8.8	8.7	8.6	8.5	8.4	8.4
		LIQ. PRESS.	277	277	278	279	281	283	285	287	289	291	293
		SUC. PRESS.	129	131	132	136	141	145	151	156	161	166	171
	80	SC	9.7	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0	9.0	9.1
		LIQ. PRESS.	298	299	300	301	303	305	307	309	311	313	315
		SUC. PRESS.	130	132	133	136	141	146	151	157	162	167	172
	85	SC	10.1	10.1	10.1	10.0	9.9	9.8	9.7	9.7	9.7	9.7	9.9
		LIQ. PRESS.	320	321	321	323	325	327	329	331	333	335	336
		SUC. PRESS.	131	133	134	137	142	147	152	157	163	168	174
	90	SC	10.6	10.6	10.5	10.5	10.4	10.3	10.3	10.3	10.3	10.5	10.7
		LIQ. PRESS.	344	345	345	347	349	350	353	355	356	358	360
		SUC. PRESS.	133	134	135	138	143	145	153	158	164	169	175
	95	SC	11.0	11.0	11.0	10.9	10.9	9.4	10.9	10.9	11.0	11.2	11.5
		LIQ. PRESS.	369	369	369	371	373	372	377	378	380	382	384
		SUC. PRESS.	134	135	136	139	144	144	154	159	165	170	175
100	SC	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.5	11.7	11.9	12.3	
	LIQ. PRESS.	395	396	396	397	399	400	402	404	406	409	411	
	SUC. PRESS.	136	137	137	140	145	147	155	160	166	171	176	
105	SC	11.7	11.7	11.7	11.7	11.8	11.8	11.9	12.0	12.3	12.6	13.0	
	LIQ. PRESS.	422	422	422	423	425	427	428	430	432	435	438	
	SUC. PRESS.	138	138	139	141	146	151	156	161	167	172	178	
110	SC	11.9	12.0	12.0	12.0	12.1	12.1	12.3	12.5	12.8	13.2	13.7	
	LIQ. PRESS.	450	450	450	451	453	454	456	458	461	465	468	
	SUC. PRESS.	139	140	140	143	147	152	157	163	168	173	179	
115	SC	12.0	12.0	12.1	12.2	12.2	12.4	12.6	12.8	13.2	13.6	14.2	
	LIQ. PRESS.	478	478	478	479	481	482	484	487	490	494	498	
	SUC. PRESS.	141	141	141	144	149	153	158	164	169	175	180	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)D4M1RN18KA W/ FIXED ORIFICE INDOOR UNIT
(1.5 TON / ROTARY COMPRESSOR)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	11.7	11.6	11.5	11.5	11.5	11.5	12.2	12.9	14.5	16.8	19.2
		LIQ. PRESS.	219	219	220	220	220	219	218	216	219	225	231
		SUC. PRESS.	118	121	123	124	123	122	116	111	110	113	117
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	11.3	11.2	11.1	11.1	11.1	11.1	11.9	12.7	14.3	16.8	19.3
		LIQ. PRESS.	238	238	239	239	240	240	239	238	241	246	252
		SUC. PRESS.	121	123	125	127	128	128	124	120	118	118	118
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	10.9	10.8	10.7	10.7	10.7	10.7	11.6	12.5	14.2	16.8	19.4
		LIQ. PRESS.	257	257	258	259	260	260	260	260	263	268	273
		SUC. PRESS.	124	126	128	130	132	135	132	129	126	122	118
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	10.5	10.4	10.3	10.3	10.3	10.3	11.3	12.2	14.1	16.8	19.5	
	LIQ. PRESS.	276	276	277	278	280	281	282	282	285	289	294	
	SUC. PRESS.	127	129	130	133	137	141	140	139	134	126	118	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	10.2	10.1	10.0	9.9	10.0	10.0	11.0	12.0	14.0	16.8	19.6	
	LIQ. PRESS.	297	298	298	299	301	303	304	306	309	314	319	
	SUC. PRESS.	130	131	132	135	139	144	144	145	142	136	129	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	9.8	9.7	9.6	9.5	9.6	9.7	10.8	11.9	13.9	16.8	19.7	
	LIQ. PRESS.	318	319	319	320	322	324	326	329	333	339	345	
	SUC. PRESS.	132	133	134	137	141	146	149	152	151	145	140	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	9.5	9.4	9.2	9.2	9.3	10.3	10.5	11.7	13.8	16.8	19.8	
	LIQ. PRESS.	342	342	342	343	345	347	350	354	359	365	372	
	SUC. PRESS.	134	135	136	138	143	148	151	155	155	152	148	
95	SH	5.0	5.0	5.0	5.8	7.3	11.8	11.2	13.7	16.4	19.5	22.9	
	SC	9.2	9.0	8.9	8.9	9.0	10.8	10.3	11.5	13.7	16.8	19.9	
	LIQ. PRESS.	365	365	365	366	368	370	374	378	384	391	399	
	SUC. PRESS.	137	137	137	140	144	151	153	158	159	158	157	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	9.0	8.8	8.6	8.5	8.7	9.7	10.1	11.3	13.6	16.8	20.0	
	LIQ. PRESS.	390	390	390	391	393	396	400	404	410	420	430	
	SUC. PRESS.	138	139	139	141	146	151	155	159	162	162	163	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	8.7	8.5	8.2	8.2	8.3	8.5	9.8	11.1	13.5	16.8	20.1	
	LIQ. PRESS.	416	415	415	416	419	421	425	429	437	449	461	
	SUC. PRESS.	140	140	140	143	147	152	156	161	164	166	168	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	8.5	8.2	7.9	7.9	8.1	8.3	9.6	11.0	13.4	16.8	20.2	
	LIQ. PRESS.	443	443	442	443	445	447	451	456	464	478	492	
	SUC. PRESS.	142	142	142	144	149	153	157	162	166	168	171	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	8.2	7.9	7.6	7.6	7.8	8.0	9.4	10.9	13.3	16.8	20.3	
	LIQ. PRESS.	470	470	470	470	472	473	478	482	492	507	522	
	SUC. PRESS.	144	144	144	146	150	154	159	163	167	171	174	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve

-Subcooling tolerance is ± 1°F

-Superheat tolerance is ± 1°F

-The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.

-Boxed data point is the performance rated condition

-Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)D4M1RN18KA W/ TXV INDOOR UNIT
(1.5 TON / ROTARY COMPRESSOR)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.6	8.7	8.6	8.5	8.3	8.1	7.8	7.6	7.4	7.2	7.0
		LIQ. PRESS.	217	217	218	219	221	222	224	225	227	228	230
		SUC. PRESS.	124	126	128	132	137	141	146	151	156	162	167
	65	SC	8.7	8.7	8.7	8.6	8.4	8.2	8.0	7.8	7.6	7.4	7.3
		LIQ. PRESS.	236	236	237	238	240	241	243	244	246	248	250
		SUC. PRESS.	126	128	130	133	138	143	148	153	158	163	168
	70	SC	8.9	9.0	8.9	8.8	8.6	8.5	8.3	8.1	8.0	7.9	7.8
		LIQ. PRESS.	254	255	256	257	258	260	262	263	265	267	269
		SUC. PRESS.	128	130	131	135	139	144	149	154	159	164	169
	75	SC	9.3	9.3	9.2	9.1	9.0	8.8	8.7	8.6	8.5	8.4	8.4
		LIQ. PRESS.	273	274	274	275	277	279	281	283	285	287	289
		SUC. PRESS.	130	131	133	136	141	146	150	155	160	165	171
	80	SC	9.7	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0	9.0	9.1
		LIQ. PRESS.	294	295	295	296	298	300	302	304	306	308	310
		SUC. PRESS.	131	133	134	137	142	147	151	156	161	166	172
	85	SC	10.1	10.1	10.1	10.0	9.9	9.8	9.7	9.7	9.7	9.7	9.9
		LIQ. PRESS.	315	316	316	317	319	321	323	325	328	330	332
		SUC. PRESS.	133	134	135	138	143	148	152	157	162	167	173
	90	SC	10.6	10.6	10.5	10.5	10.4	10.3	10.3	10.3	10.3	10.5	10.7
		LIQ. PRESS.	339	339	340	341	343	345	347	349	352	354	357
		SUC. PRESS.	135	135	136	139	144	148	153	158	163	168	173
	95	SC	11.0	11.0	11.0	10.9	10.9	11.5	10.9	10.9	11.0	11.2	11.5
		LIQ. PRESS.	363	363	364	365	367	369	371	374	376	379	381
		SUC. PRESS.	137	137	137	140	145	149	155	160	164	169	174
100	SC	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.5	11.7	11.9	12.3	
	LIQ. PRESS.	389	390	390	391	393	396	398	400	403	405	408	
	SUC. PRESS.	138	138	139	141	146	150	155	160	165	170	175	
105	SC	11.7	11.7	11.7	11.7	11.8	11.8	11.9	12.0	12.3	12.6	13.0	
	LIQ. PRESS.	416	416	416	417	420	422	424	427	430	432	434	
	SUC. PRESS.	139	140	140	142	147	152	156	161	166	171	176	
110	SC	11.9	12.0	12.0	12.0	12.1	12.1	12.3	12.5	12.8	13.2	13.7	
	LIQ. PRESS.	445	445	445	446	449	451	453	456	458	461	463	
	SUC. PRESS.	141	141	141	144	148	153	157	162	167	172	176	
115	SC	12.0	12.0	12.1	12.2	12.2	12.4	12.6	12.8	13.2	13.6	14.2	
	LIQ. PRESS.	474	474	474	476	478	480	482	485	487	489	492	
	SUC. PRESS.	143	143	143	145	149	154	158	163	168	173	177	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)D4M1SN24K W / FIXED ORIFICE INDOOR
(2.0 TON / SCROLL COMPRESSOR)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	8.5	8.5	8.4	8.4	8.4	8.4	8.8	9.1	9.9	11.1	12.3
		LIQ. PRESS.	221	222	223	223	223	223	221	218	219	221	224
		SUC. PRESS.	117	119	122	123	122	121	116	110	110	113	117
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	8.3	8.3	8.2	8.2	8.2	8.2	8.6	9.0	9.8	11.1	12.3
		LIQ. PRESS.	241	242	243	244	244	244	243	241	241	242	244
		SUC. PRESS.	119	121	124	125	126	127	123	119	117	117	117
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	8.1	8.1	8.0	8.0	8.0	8.0	8.4	8.9	9.8	11.1	12.4
		LIQ. PRESS.	262	262	263	264	264	265	264	264	263	263	263
		SUC. PRESS.	122	124	126	128	131	133	131	128	125	121	118
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	7.9	7.9	7.8	7.8	7.8	7.8	8.3	8.8	9.7	11.0	12.4	
	LIQ. PRESS.	282	283	283	284	285	286	286	286	286	284	282	
	SUC. PRESS.	124	126	128	131	135	139	138	137	133	126	118	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	7.8	7.7	7.6	7.6	7.6	7.7	8.2	8.7	9.7	11.1	12.5	
	LIQ. PRESS.	303	304	304	305	306	308	309	310	310	308	307	
	SUC. PRESS.	127	128	130	132	137	141	142	144	141	135	129	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	7.6	7.5	7.4	7.4	7.5	7.5	8.1	8.6	9.6	11.1	12.5	
	LIQ. PRESS.	324	325	325	326	328	330	331	333	334	333	332	
	SUC. PRESS.	129	130	131	134	139	143	146	150	149	144	139	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	7.4	7.3	7.2	7.2	7.3	11.1	7.9	8.5	9.6	11.1	12.6	
	LIQ. PRESS.	348	348	348	350	351	353	356	358	359	359	359	
	SUC. PRESS.	131	132	133	136	140	140	149	152	153	150	148	
95	SH	5.0	5.0	5.0	5.8	7.3	20.3	11.2	13.7	16.4	19.5	22.9	
	SC	7.2	7.1	7.0	7.0	7.1	14.6	7.8	8.4	9.5	11.0	12.6	
	LIQ. PRESS.	371	372	372	373	375	376	380	382	384	386	387	
	SUC. PRESS.	133	134	134	137	142	137	151	155	157	157	156	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	7.1	7.0	6.9	6.9	7.0	10.8	7.7	8.3	9.5	11.1	12.7	
	LIQ. PRESS.	397	397	397	398	401	402	406	408	411	413	416	
	SUC. PRESS.	135	135	136	138	143	143	152	157	160	160	161	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	7.0	6.9	6.8	6.7	6.8	6.9	7.6	8.3	9.4	11.1	12.7	
	LIQ. PRESS.	423	423	423	424	426	429	432	435	438	441	444	
	SUC. PRESS.	137	137	137	140	145	149	154	158	162	164	167	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	6.9	6.7	6.6	6.6	6.7	6.8	7.5	8.2	9.4	11.1	12.8	
	LIQ. PRESS.	450	450	450	451	453	456	459	462	466	470	474	
	SUC. PRESS.	139	139	139	142	146	151	155	160	164	167	169	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	6.7	6.6	6.5	6.4	6.5	6.6	7.3	8.0	9.3	11.0	12.8	
	LIQ. PRESS.	478	477	477	478	481	483	486	490	494	499	503	
	SUC. PRESS.	141	141	141	143	148	152	157	162	166	169	172	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve
 -Subcooling tolerance is ± 1°F
 -Superheat tolerance is ± 1°F
 -The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)D4M1SN24K W/ TXV INDOOR UNIT
(2.0 TON / SCROLL COMPRESSOR)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.6	8.7	8.6	8.5	8.3	8.1	7.8	7.6	7.4	7.2	7.0
		LIQ. PRESS.	220	221	223	224	226	228	229	230	231	233	234
		SUC. PRESS.	110	114	118	122	127	131	136	141	146	152	157
	65	SC	8.7	8.7	8.7	8.6	8.4	8.2	8.0	7.8	7.6	7.4	7.3
		LIQ. PRESS.	239	241	242	244	246	247	248	249	251	253	255
		SUC. PRESS.	112	115	119	123	128	132	137	142	147	153	158
	70	SC	8.9	9.0	8.9	8.8	8.6	8.5	8.3	8.1	8.0	7.9	7.8
		LIQ. PRESS.	259	261	262	264	265	266	268	269	271	273	275
		SUC. PRESS.	113	117	120	124	129	133	138	143	148	154	159
	75	SC	9.3	9.3	9.2	9.1	9.0	8.8	8.7	8.6	8.5	8.4	8.4
		LIQ. PRESS.	279	281	282	283	284	285	287	289	291	293	295
		SUC. PRESS.	115	118	121	125	130	134	139	144	149	155	160
	80	SC	9.7	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0	9.0	9.1
		LIQ. PRESS.	301	302	303	304	305	307	309	311	313	315	318
		SUC. PRESS.	116	119	122	126	131	135	140	145	150	156	161
	85	SC	10.1	10.1	10.1	10.0	9.9	9.8	9.7	9.7	9.7	9.7	9.9
		LIQ. PRESS.	323	324	324	325	327	328	330	332	335	338	340
		SUC. PRESS.	117	120	123	127	132	136	141	146	151	157	162
	90	SC	10.6	10.6	10.5	10.5	10.4	10.3	10.3	10.3	10.3	10.5	10.7
		LIQ. PRESS.	346	347	348	349	351	363	355	357	360	362	365
		SUC. PRESS.	119	122	124	128	133	142	142	147	153	158	163
	95	SC	11.0	11.0	11.0	10.9	10.9	10.7	10.9	10.9	11.0	11.2	11.5
		LIQ. PRESS.	370	370	371	372	374	397	379	381	384	387	390
		SUC. PRESS.	121	123	126	129	134	149	143	148	154	159	165
100	SC	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.5	11.7	11.9	12.3	
	LIQ. PRESS.	395	396	397	398	401	413	406	408	411	415	418	
	SUC. PRESS.	122	125	127	130	135	145	145	150	155	160	166	
105	SC	11.7	11.7	11.7	11.7	11.8	11.8	11.9	12.0	12.3	12.6	13.0	
	LIQ. PRESS.	421	422	423	425	427	429	432	435	438	442	446	
	SUC. PRESS.	124	126	128	132	136	141	146	151	156	162	167	
110	SC	11.9	12.0	12.0	12.0	12.1	12.1	12.3	12.5	12.8	13.2	13.7	
	LIQ. PRESS.	449	450	451	453	456	458	461	464	468	472	476	
	SUC. PRESS.	126	128	130	133	138	142	147	152	157	163	168	
115	SC	12.0	12.0	12.1	12.2	12.2	12.4	12.6	12.8	13.2	13.6	14.2	
	LIQ. PRESS.	478	479	480	482	484	487	490	494	497	502	506	
	SUC. PRESS.	128	130	131	134	139	144	149	154	159	164	170	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)D4M1RN24KA W/ FIXED ORIFICE INDOOR UNIT
(2.0 TON / ROTARY COMPRESSOR)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	10.7	10.6	10.5	10.4	10.4	10.4	11.5	12.6	14.8	18.3	21.8
		LIQ. PRESS.	219	220	220	220	220	219	218	217	221	231	240
		SUC. PRESS.	119	122	124	124	123	122	116	110	110	114	117
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	10.1	10.0	9.9	9.8	9.8	9.8	11.0	12.2	14.6	18.3	21.9
		LIQ. PRESS.	239	239	240	240	240	240	239	239	243	253	262
		SUC. PRESS.	123	125	126	128	128	129	124	120	118	118	118
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	9.5	9.4	9.3	9.2	9.2	9.3	10.6	11.9	14.4	18.2	22.0
		LIQ. PRESS.	258	258	259	259	260	261	261	261	266	275	284
		SUC. PRESS.	126	128	129	131	133	136	133	129	126	122	118
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	8.9	8.8	8.7	8.6	8.7	8.7	10.1	11.5	14.2	18.1	22.1	
	LIQ. PRESS.	277	277	278	279	280	282	282	283	288	297	306	
	SUC. PRESS.	130	131	132	134	138	142	141	139	134	126	118	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	8.4	8.3	8.1	8.1	8.2	8.3	9.8	11.3	14.1	18.2	22.3	
	LIQ. PRESS.	298	298	299	299	301	303	304	306	312	322	331	
	SUC. PRESS.	132	133	134	136	140	145	145	146	143	136	129	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	7.9	7.7	7.6	7.6	7.7	7.8	9.4	11.0	13.9	18.2	22.4	
	LIQ. PRESS.	319	319	319	320	322	324	326	329	335	346	357	
	SUC. PRESS.	135	135	136	138	143	147	150	153	151	146	140	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	7.5	7.3	7.1	7.1	7.2	7.9	9.0	10.7	13.8	18.2	22.6	
	LIQ. PRESS.	342	342	342	343	344	346	349	352	360	373	385	
	SUC. PRESS.	137	137	137	140	144	145	152	156	156	152	149	
95	SH	5.0	5.0	5.0	5.8	7.3	6.2	11.2	13.7	16.4	19.5	22.9	
	SC	7.0	6.8	6.6	6.6	6.7	7.9	8.7	10.4	13.6	18.1	22.7	
	LIQ. PRESS.	364	364	364	365	367	368	372	375	384	399	414	
	SUC. PRESS.	139	139	139	141	146	144	154	159	160	159	157	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	6.6	6.4	6.1	6.1	6.3	7.0	8.3	10.2	13.5	18.2	22.9	
	LIQ. PRESS.	389	389	389	389	391	393	397	401	411	427	443	
	SUC. PRESS.	141	141	141	143	147	148	156	160	162	163	163	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	6.2	5.9	5.6	5.6	5.9	6.1	8.0	9.9	13.3	18.2	23.0	
	LIQ. PRESS.	413	413	413	414	416	418	422	427	437	455	472	
	SUC. PRESS.	143	143	143	145	149	153	157	162	165	167	168	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	5.9	5.5	5.2	5.2	5.4	5.7	7.7	9.7	13.2	18.2	23.2	
	LIQ. PRESS.	440	440	440	441	443	445	449	454	466	486	505	
	SUC. PRESS.	145	145	145	147	151	154	159	163	167	169	171	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	5.5	5.1	4.8	4.7	5.0	5.3	7.4	9.5	13.2	18.3	23.4	
	LIQ. PRESS.	467	467	467	468	470	472	477	482	495	516	538	
	SUC. PRESS.	147	147	147	149	152	156	160	164	168	171	174	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve

-Subcooling tolerance is ± 1°F

-Superheat tolerance is ± 1°F

-The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.

-Boxed data point is the performance rated condition

-Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)D4M1RN24KA W/ TXV INDOOR UNIT
(2.0 TON / ROTARY COMPRESSOR)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.6	8.7	8.6	8.5	8.3	8.1	7.8	7.6	7.4	7.2	7.0
		LIQ. PRESS.	219	220	221	223	224	226	228	229	231	232	233
		SUC. PRESS.	120	123	125	129	134	138	143	148	153	158	163
	65	SC	8.7	8.7	8.7	8.6	8.4	8.2	8.0	7.8	7.6	7.4	7.3
		LIQ. PRESS.	239	240	240	242	243	245	247	249	250	251	253
		SUC. PRESS.	122	125	127	130	135	140	144	149	154	159	164
	70	SC	8.9	9.0	8.9	8.8	8.6	8.5	8.3	8.1	8.0	7.9	7.8
		LIQ. PRESS.	258	259	259	261	262	264	266	268	269	271	272
		SUC. PRESS.	124	126	128	132	136	141	146	151	156	160	165
	75	SC	9.3	9.3	9.2	9.1	9.0	8.8	8.7	8.6	8.5	8.4	8.4
		LIQ. PRESS.	277	278	278	280	282	283	285	287	288	290	291
		SUC. PRESS.	127	128	130	133	138	142	147	152	157	162	167
	80	SC	9.7	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0	9.0	9.1
		LIQ. PRESS.	298	299	300	301	303	305	306	308	309	311	313
		SUC. PRESS.	128	129	131	134	139	143	148	153	158	163	168
	85	SC	10.1	10.1	10.1	10.0	9.9	9.8	9.7	9.7	9.7	9.7	9.9
		LIQ. PRESS.	320	320	321	322	324	326	327	329	331	332	334
		SUC. PRESS.	129	131	132	135	140	144	149	154	159	164	168
	90	SC	10.6	10.6	10.5	10.5	10.4	10.3	10.3	10.3	10.3	10.5	10.7
		LIQ. PRESS.	344	344	344	345	347	348	351	352	354	356	358
		SUC. PRESS.	131	132	133	135	140	148	150	155	160	164	169
	95	SC	11.0	11.0	11.0	10.9	10.9	9.2	10.9	10.9	11.0	11.2	11.5
		LIQ. PRESS.	368	368	368	369	371	370	374	376	378	380	382
		SUC. PRESS.	132	133	133	136	141	151	151	156	160	165	169
100	SC	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.5	11.7	11.9	12.3	
	LIQ. PRESS.	393	394	394	395	396	397	400	402	404	406	408	
	SUC. PRESS.	134	134	134	137	142	149	152	156	161	165	169	
105	SC	11.7	11.7	11.7	11.7	11.8	11.8	11.9	12.0	12.3	12.6	13.0	
	LIQ. PRESS.	419	420	420	421	422	423	425	428	430	432	435	
	SUC. PRESS.	135	135	136	139	143	148	152	157	161	165	168	
110	SC	11.9	12.0	12.0	12.0	12.1	12.1	12.3	12.5	12.8	13.2	13.7	
	LIQ. PRESS.	447	447	447	448	449	451	453	456	458	461	463	
	SUC. PRESS.	136	137	137	139	144	148	153	157	161	164	167	
115	SC	12.0	12.0	12.1	12.2	12.2	12.4	12.6	12.8	13.2	13.6	14.2	
	LIQ. PRESS.	474	475	475	476	477	479	481	484	487	489	492	
	SUC. PRESS.	138	138	138	140	145	149	153	157	161	163	166	

- SC = Subcooling at the liquid valve
- Subcooling tolerance is ± 1°F
- Refrigerant pressures are reference values for troubleshooting purposes only
- Boxed data point is the performance rated condition
- Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)D4M1SN30K W/ FIXED ORIFICE INDOOR UNIT
(2.5 TON / SCROLL COMPRESSOR)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	14.6	14.5	14.5	14.4	14.3	14.2	15.5	16.9	19.0	22.0	25.0
		LIQ. PRESS.	231	232	233	233	233	233	233	233	237	246	255
		SUC. PRESS.	116	118	121	122	122	122	117	111	110	113	117
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	13.9	13.8	13.7	13.7	13.6	13.6	15.0	16.5	18.8	21.9	25.0
		LIQ. PRESS.	250	251	252	252	252	253	253	254	259	268	278
		SUC. PRESS.	118	120	123	125	126	128	124	120	118	117	117
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	13.3	13.1	13.0	13.0	13.0	13.0	14.5	16.1	18.5	21.7	25.0
		LIQ. PRESS.	269	270	270	271	272	273	274	276	281	290	300
		SUC. PRESS.	120	122	125	127	130	133	131	129	126	122	118
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	12.6	12.4	12.3	12.2	12.3	12.4	14.0	15.7	18.2	21.6	25.0	
	LIQ. PRESS.	288	289	289	290	291	293	295	297	303	312	322	
	SUC. PRESS.	122	124	127	130	134	138	138	137	134	126	118	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	12.0	11.8	11.6	11.6	11.7	11.8	13.6	15.3	18.0	21.5	25.0	
	LIQ. PRESS.	309	310	310	311	313	315	318	321	328	337	347	
	SUC. PRESS.	124	126	128	131	136	140	142	143	141	135	129	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	11.4	11.2	11.0	11.0	11.1	11.2	13.1	15.0	17.7	21.4	25.0	
	LIQ. PRESS.	330	331	331	333	335	337	341	345	352	362	372	
	SUC. PRESS.	126	128	130	133	138	142	146	149	149	144	140	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	10.9	10.7	10.4	10.4	10.5	11.4	12.7	14.7	17.5	21.3	25.0	
	LIQ. PRESS.	354	354	355	356	359	364	366	370	378	390	401	
	SUC. PRESS.	128	130	131	135	139	143	148	152	152	150	148	
95	SH	5.0	5.0	5.0	5.8	7.3	8.6	11.2	13.7	16.4	19.5	22.9	
	SC	10.4	10.1	9.8	9.8	10.0	11.5	12.3	14.4	17.3	21.2	25.0	
	LIQ. PRESS.	378	378	378	380	382	391	390	395	404	417	430	
	SUC. PRESS.	130	132	133	136	141	143	150	154	156	156	156	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	9.9	9.6	9.3	9.2	9.5	10.4	11.9	14.1	17.2	21.1	25.0	
	LIQ. PRESS.	403	403	403	405	408	414	416	422	432	446	461	
	SUC. PRESS.	132	133	134	137	142	146	151	156	159	160	161	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	9.4	9.0	8.7	8.6	8.9	9.2	11.5	13.8	17.0	21.0	25.0	
	LIQ. PRESS.	428	428	429	430	433	436	442	448	459	476	492	
	SUC. PRESS.	134	135	136	139	144	148	153	157	161	164	166	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	9.0	8.6	8.2	8.2	8.5	8.8	11.2	13.6	16.8	20.9	25.0	
	LIQ. PRESS.	456	456	455	457	460	463	470	476	489	507	525	
	SUC. PRESS.	136	137	137	140	145	150	154	159	163	166	169	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	8.6	8.2	7.7	7.7	8.0	8.3	10.8	13.3	16.6	20.8	25.0	
	LIQ. PRESS.	483	483	482	484	487	490	497	505	518	538	558	
	SUC. PRESS.	138	139	139	141	146	151	156	160	164	168	172	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve
 -Subcooling tolerance is ± 1°F
 -Superheat tolerance is ± 1°F
 -The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)D4M1SN30K W/ TXV INDOOR UNIT
(2.5 TON / SCROLL COMPRESSOR)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.6	8.7	8.6	8.5	8.3	8.1	7.8	7.6	7.4	7.2	7.0
		LIQ. PRESS.	231	232	233	234	236	237	239	241	243	246	248
		SUC. PRESS.	122	124	126	129	134	139	144	149	154	159	164
	65	SC	8.7	8.7	8.7	8.6	8.4	8.2	8.0	7.8	7.6	7.4	7.3
		LIQ. PRESS.	251	252	253	254	255	257	259	262	264	266	269
		SUC. PRESS.	123	125	127	130	135	140	145	150	155	160	166
	70	SC	8.9	9.0	8.9	8.8	8.6	8.5	8.3	8.1	8.0	7.9	7.8
		LIQ. PRESS.	271	271	272	273	275	277	280	282	284	287	289
		SUC. PRESS.	125	126	128	131	136	141	146	151	156	161	167
	75	SC	9.3	9.3	9.2	9.1	9.0	8.8	8.7	8.6	8.5	8.4	8.4
		LIQ. PRESS.	290	291	292	293	295	297	300	302	305	307	310
		SUC. PRESS.	126	128	129	132	137	142	147	152	157	162	168
	80	SC	9.7	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0	9.0	9.1
		LIQ. PRESS.	312	313	313	315	317	319	322	325	327	330	333
		SUC. PRESS.	127	129	130	133	138	143	148	153	158	163	169
	85	SC	10.1	10.1	10.1	10.0	9.9	9.8	9.7	9.7	9.7	9.7	9.9
		LIQ. PRESS.	334	334	335	337	339	342	344	347	350	353	356
		SUC. PRESS.	129	130	131	134	139	144	149	154	159	165	170
	90	SC	10.6	10.6	10.5	10.5	10.4	10.3	10.3	10.3	10.3	10.5	10.7
		LIQ. PRESS.	358	359	359	361	363	365	369	372	375	378	381
		SUC. PRESS.	130	131	132	135	140	143	150	155	160	166	171
	95	SC	11.0	11.0	11.0	10.9	10.9	12.0	10.9	10.9	11.0	11.2	11.5
		LIQ. PRESS.	382	383	383	385	387	388	393	396	399	403	406
		SUC. PRESS.	132	133	133	136	141	143	151	156	161	167	172
100	SC	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.5	11.7	11.9	12.3	
	LIQ. PRESS.	409	409	409	411	414	416	420	423	427	430	434	
	SUC. PRESS.	134	134	135	137	142	145	152	157	162	168	173	
105	SC	11.7	11.7	11.7	11.7	11.8	11.8	11.9	12.0	12.3	12.6	13.0	
	LIQ. PRESS.	435	436	436	437	440	443	447	450	454	457	461	
	SUC. PRESS.	135	135	136	138	143	148	153	158	164	169	175	
110	SC	11.9	12.0	12.0	12.0	12.1	12.1	12.3	12.5	12.8	13.2	13.7	
	LIQ. PRESS.	464	464	464	466	469	472	475	479	482	487	491	
	SUC. PRESS.	137	137	137	140	144	149	154	160	165	170	176	
115	SC	12.0	12.0	12.1	12.2	12.2	12.4	12.6	12.8	13.2	13.6	14.2	
	LIQ. PRESS.	492	492	492	494	497	500	504	507	511	516	520	
	SUC. PRESS.	139	139	139	141	146	150	156	161	166	171	177	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)D4M1RN30KA W/ FIXED ORIFICE INDOOR UNIT
(2.5 TON / ROTARY COMPRESSOR)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	18.5	18.3	18.2	18.0	17.9	17.8	20.1	22.4	23.9	24.4	25.0
		LIQ. PRESS.	236	236	237	237	237	236	240	244	248	251	255
		SUC. PRESS.	120	122	124	125	124	123	117	111	110	113	117
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	17.3	17.1	16.9	16.8	16.7	16.7	19.2	21.7	23.4	24.2	25.0
		LIQ. PRESS.	255	256	256	256	257	257	262	267	271	274	278
		SUC. PRESS.	122	124	126	127	128	129	125	120	118	118	118
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	16.1	15.9	15.6	15.5	15.6	15.6	18.3	21.0	22.9	24.0	25.0
		LIQ. PRESS.	275	275	275	276	276	277	283	289	294	297	300
		SUC. PRESS.	124	126	128	130	132	135	132	129	126	122	118
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	14.9	14.6	14.3	14.3	14.4	14.5	17.4	20.3	22.4	23.7	25.0	
	LIQ. PRESS.	295	295	295	295	296	297	305	312	317	320	323	
	SUC. PRESS.	126	128	129	132	136	140	139	138	134	126	118	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	13.9	13.5	13.2	13.1	13.3	13.5	16.6	19.7	22.0	23.5	25.0	
	LIQ. PRESS.	314	314	315	315	317	319	326	334	340	344	348	
	SUC. PRESS.	128	129	131	134	138	142	144	145	142	135	129	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	12.8	12.4	12.1	12.0	12.3	12.5	15.8	19.1	21.6	23.3	25.0	
	LIQ. PRESS.	334	334	335	336	338	340	348	356	363	369	374	
	SUC. PRESS.	130	131	133	135	140	145	148	151	150	145	140	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	11.9	11.4	11.0	11.0	11.3	11.8	15.1	18.6	21.3	23.1	25.0	
	LIQ. PRESS.	357	357	357	358	361	361	372	381	388	395	402	
	SUC. PRESS.	132	133	134	137	142	145	150	154	154	151	148	
95	SH	5.0	5.0	5.0	5.8	7.3	14.7	11.2	13.7	16.4	19.5	22.9	
	SC	10.9	10.4	9.9	9.9	10.2	11.0	14.3	18.0	20.9	23.0	25.0	
	LIQ. PRESS.	381	380	380	381	384	382	396	405	414	422	429	
	SUC. PRESS.	135	135	136	139	143	145	152	157	158	158	157	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	10.1	9.5	9.0	8.9	9.3	10.0	13.7	17.6	20.6	22.8	25.0	
	LIQ. PRESS.	405	405	404	406	408	409	421	431	441	451	460	
	SUC. PRESS.	137	137	138	140	145	148	154	158	161	162	163	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	9.3	8.7	8.0	7.9	8.4	8.9	13.0	17.1	20.3	22.6	25.0	
	LIQ. PRESS.	430	429	429	430	433	436	447	458	469	480	491	
	SUC. PRESS.	139	139	139	142	147	151	156	160	164	166	168	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	8.5	7.8	7.1	7.0	7.6	8.1	12.3	16.6	20.0	22.5	25.0	
	LIQ. PRESS.	457	456	455	456	459	462	474	486	498	511	524	
	SUC. PRESS.	141	141	142	144	149	153	157	162	165	168	171	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	7.7	6.9	6.2	6.1	6.7	7.3	11.7	16.1	19.6	22.3	25.0	
	LIQ. PRESS.	483	482	482	483	485	488	501	514	528	542	556	
	SUC. PRESS.	143	144	144	146	150	155	159	163	167	171	174	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve

-Subcooling tolerance is ± 1°F

-Superheat tolerance is ± 1°F

-The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.

-Boxed data point is the performance rated condition

-Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)D4M1RN30KA W/ TXV INDOOR UNIT
(2.5 TON / ROTARY COMPRESSOR)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.6	8.7	8.6	8.5	8.3	8.1	7.8	7.6	7.4	7.2	7.0
		LIQ. PRESS.	220	222	223	225	227	229	231	232	234	236	238
		SUC. PRESS.	120	122	125	129	133	138	143	148	153	158	163
	65	SC	8.7	8.7	8.7	8.6	8.4	8.2	8.0	7.8	7.6	7.4	7.3
		LIQ. PRESS.	241	243	244	246	248	250	252	253	255	257	260
		SUC. PRESS.	120	123	125	129	134	139	143	148	153	159	164
	70	SC	8.9	9.0	8.9	8.8	8.6	8.5	8.3	8.1	8.0	7.9	7.8
		LIQ. PRESS.	263	264	265	267	269	271	273	275	277	279	282
		SUC. PRESS.	120	123	125	129	134	139	144	149	154	159	165
	75	SC	9.3	9.3	9.2	9.1	9.0	8.8	8.7	8.6	8.5	8.4	8.4
		LIQ. PRESS.	284	285	286	288	290	292	294	296	299	301	303
		SUC. PRESS.	121	123	125	129	134	139	144	150	155	160	166
	80	SC	9.7	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0	9.0	9.1
		LIQ. PRESS.	306	307	308	309	311	314	316	319	321	324	326
		SUC. PRESS.	122	124	127	130	135	140	145	151	156	161	167
	85	SC	10.1	10.1	10.1	10.0	9.9	9.8	9.7	9.7	9.7	9.7	9.9
		LIQ. PRESS.	328	329	329	331	333	336	338	341	344	347	349
		SUC. PRESS.	123	125	128	131	136	141	146	152	157	163	168
	90	SC	10.6	10.6	10.5	10.5	10.4	10.3	10.3	10.3	10.3	10.5	10.7
		LIQ. PRESS.	351	352	353	355	357	361	363	366	369	371	374
		SUC. PRESS.	125	127	129	132	137	144	147	153	158	164	169
	95	SC	11.0	11.0	11.0	10.9	10.9	11.3	10.9	10.9	11.0	11.2	11.5
		LIQ. PRESS.	375	376	376	378	381	386	387	390	393	396	399
		SUC. PRESS.	126	128	130	133	138	146	149	154	160	165	171
100	SC	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.5	11.7	12.3	
	LIQ. PRESS.	401	401	402	404	407	411	413	416	420	423	426	
	SUC. PRESS.	128	129	130	134	139	146	150	156	161	167	172	
105	SC	11.7	11.7	11.7	11.7	11.8	11.8	11.9	12.0	12.3	12.6	13.0	
	LIQ. PRESS.	427	427	427	429	433	436	440	443	446	450	453	
	SUC. PRESS.	130	131	131	134	140	146	152	157	163	168	174	
110	SC	11.9	12.0	12.0	12.0	12.1	12.1	12.3	12.5	12.8	13.2	13.7	
	LIQ. PRESS.	455	455	456	458	461	465	468	472	476	479	483	
	SUC. PRESS.	132	133	133	136	142	148	153	158	164	170	175	
115	SC	12.0	12.0	12.1	12.2	12.2	12.4	12.6	12.8	13.2	13.6	14.2	
	LIQ. PRESS.	483	484	484	486	490	494	497	501	505	509	513	
	SUC. PRESS.	134	135	135	138	144	149	155	160	165	171	177	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)D4M1SN36(C,D,K) W/ FIXED ORIFICE INDOOR UNIT
(3.0 TON / SCROLL COMPRESSOR / SINGLE & THREE PHASE MODELS)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	9.5	9.4	9.4	9.3	9.3	9.3	9.6	9.9	10.5	11.5	12.5
		LIQ. PRESS.	229	230	231	231	231	230	228	226	226	229	232
		SUC. PRESS.	115	118	120	122	122	122	116	111	110	113	117
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	9.3	9.3	9.2	9.2	9.2	9.2	9.5	9.8	10.5	11.5	12.5
		LIQ. PRESS.	249	250	251	252	252	253	251	250	249	250	251
		SUC. PRESS.	117	120	122	124	126	127	123	120	118	117	117
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	9.2	9.1	9.1	9.1	9.1	9.1	9.4	9.8	10.5	11.5	12.6
		LIQ. PRESS.	270	271	272	273	274	275	274	274	273	272	270
		SUC. PRESS.	119	122	124	127	130	132	130	128	125	122	118
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	9.0	9.0	8.9	8.9	8.9	8.9	9.3	9.7	10.4	11.5	12.6	
	LIQ. PRESS.	290	291	292	294	296	298	298	297	296	293	290	
	SUC. PRESS.	122	124	126	130	134	138	137	137	133	126	118	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	8.9	8.8	8.8	8.8	8.8	8.8	9.2	9.6	10.4	11.5	12.6	
	LIQ. PRESS.	313	314	315	316	318	320	321	322	322	319	317	
	SUC. PRESS.	124	126	128	131	135	140	141	143	141	135	129	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	8.7	8.7	8.6	8.6	8.6	8.6	9.0	9.5	10.3	11.4	12.6	
	LIQ. PRESS.	335	336	337	339	341	343	345	347	348	346	344	
	SUC. PRESS.	126	128	130	133	137	142	145	149	148	144	139	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	8.6	8.5	8.5	8.5	8.5	8.8	9.0	9.4	10.3	11.5	12.7	
	LIQ. PRESS.	360	360	361	363	365	364	370	373	374	374	373	
	SUC. PRESS.	128	130	131	134	139	139	147	151	152	150	148	
95	SH	5.0	5.0	5.0	5.8	7.3	17.1	11.2	13.7	16.4	19.5	22.9	
	SC	8.4	8.4	8.3	8.3	8.4	11.0	8.9	9.4	10.2	11.5	12.7	
	LIQ. PRESS.	384	385	385	387	389	385	395	398	400	401	402	
	SUC. PRESS.	130	132	133	136	140	137	150	154	156	156	156	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	8.3	8.2	8.2	8.2	8.2	9.6	8.8	9.3	10.2	11.5	12.8	
	LIQ. PRESS.	410	410	411	413	415	415	421	424	427	429	432	
	SUC. PRESS.	132	133	134	137	142	142	151	156	159	160	161	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	8.2	8.1	8.0	8.0	8.1	8.2	8.7	9.2	10.2	11.5	12.8	
	LIQ. PRESS.	436	436	437	438	441	444	448	451	454	458	461	
	SUC. PRESS.	134	135	136	138	143	148	153	157	161	164	166	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	8.1	8.0	7.9	7.9	8.0	8.1	8.6	9.2	10.1	11.5	12.9	
	LIQ. PRESS.	464	464	464	466	469	472	475	479	483	487	491	
	SUC. PRESS.	136	137	137	140	145	150	154	159	163	166	169	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	8.0	7.9	7.8	7.8	7.9	8.0	8.6	9.1	10.1	11.5	12.9	
	LIQ. PRESS.	492	491	491	493	496	499	503	507	511	516	520	
	SUC. PRESS.	139	139	139	141	146	151	156	161	165	168	172	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve
 -Subcooling tolerance is ± 1°F
 -Superheat tolerance is ± 1°F
 -The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)D4M1SN36(C,D,K) W/ TXV INDOOR UNIT
(3.0 TON / SCROLL COMPRESSOR / SINGLE & THREE PHASE MODELS)**

13 SEER			INDOOR WET-BULB TEMPERATURE (°F)										
			57	59	61	63	65	67	69	71	73	75	77
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.6	8.7	8.6	8.5	8.3	8.1	7.8	7.6	7.4	7.2	7.0
		LIQ. PRESS.	226	227	229	231	232	234	236	238	240	243	245
		SUC. PRESS.	111	115	118	122	127	132	137	141	147	152	157
	65	SC	8.7	8.7	8.7	8.6	8.4	8.2	8.0	7.8	7.6	7.4	7.3
		LIQ. PRESS.	246	247	249	251	253	255	257	259	261	263	266
		SUC. PRESS.	113	116	120	123	128	133	138	143	148	153	159
	70	SC	8.9	9.0	8.9	8.8	8.6	8.5	8.3	8.1	8.0	7.9	7.8
		LIQ. PRESS.	266	267	269	271	273	275	277	279	282	284	287
		SUC. PRESS.	114	117	121	124	129	134	139	144	149	154	160
	75	SC	9.3	9.3	9.2	9.1	9.0	8.8	8.7	8.6	8.5	8.4	8.4
		LIQ. PRESS.	286	287	289	291	293	295	297	300	302	305	308
		SUC. PRESS.	116	119	122	125	130	135	140	145	150	155	161
	80	SC	9.7	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0	9.0	9.1
		LIQ. PRESS.	308	309	311	313	315	317	320	322	325	328	331
		SUC. PRESS.	117	120	123	127	131	136	141	146	151	156	162
	85	SC	10.1	10.1	10.1	10.0	9.9	9.8	9.7	9.7	9.7	9.7	9.9
		LIQ. PRESS.	330	331	333	335	337	340	342	345	348	351	354
		SUC. PRESS.	119	121	124	128	132	137	142	147	152	157	163
	90	SC	10.6	10.6	10.5	10.5	10.4	10.3	10.3	10.3	10.3	10.5	10.7
		LIQ. PRESS.	354	355	357	359	361	364	367	370	373	376	379
		SUC. PRESS.	120	123	125	129	133	140	143	148	153	159	164
	95	SC	11.0	11.0	11.0	10.9	10.9	10.0	10.9	10.9	11.0	11.2	11.5
		LIQ. PRESS.	378	380	381	383	386	387	392	395	398	401	405
		SUC. PRESS.	122	124	126	130	135	143	144	149	154	160	165
100	SC	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.5	11.7	11.9	12.3	
	LIQ. PRESS.	405	406	407	409	412	415	418	422	425	429	433	
	SUC. PRESS.	124	126	128	131	136	142	145	150	156	161	166	
105	SC	11.7	11.7	11.7	11.7	11.8	11.8	11.9	12.0	12.3	12.6	13.0	
	LIQ. PRESS.	432	433	434	436	439	442	445	449	452	456	460	
	SUC. PRESS.	125	127	129	132	137	142	147	152	157	162	168	
110	SC	11.9	12.0	12.0	12.0	12.1	12.1	12.3	12.5	12.8	13.2	13.7	
	LIQ. PRESS.	460	461	462	464	467	470	474	477	481	486	490	
	SUC. PRESS.	127	129	130	134	138	143	148	153	158	163	169	
115	SC	12.0	12.0	12.1	12.2	12.2	12.4	12.6	12.8	13.2	13.6	14.2	
	LIQ. PRESS.	489	490	491	493	496	499	503	506	511	515	520	
	SUC. PRESS.	129	131	132	135	140	144	149	154	159	165	170	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)D4M1RN36KA W/ FIXED ORIFICE INDOOR UNIT
(3.0 TON / ROTARY COMPRESSOR)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	12.2	12.1	12.0	11.9	11.8	11.7	13.0	14.4	17.0	21.0	25.0
		LIQ. PRESS.	226	228	229	230	231	233	234	235	240	247	254
		SUC. PRESS.	114	117	121	125	128	132	131	131	128	121	115
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	11.5	11.4	11.3	11.2	11.1	11.1	12.5	14.0	16.8	20.9	25.0
		LIQ. PRESS.	246	247	248	250	251	252	254	256	261	270	278
		SUC. PRESS.	116	120	123	126	130	134	135	136	134	128	123
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	10.8	10.7	10.5	10.5	10.5	10.5	12.0	13.6	16.5	20.7	25.0
		LIQ. PRESS.	265	266	267	269	270	272	275	277	283	293	302
		SUC. PRESS.	119	122	125	128	132	136	138	140	139	135	131
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	10.1	9.9	9.8	9.7	9.8	9.9	11.5	13.2	16.2	20.6	25.0	
	LIQ. PRESS.	285	286	286	288	290	292	295	298	305	316	326	
	SUC. PRESS.	121	124	126	130	134	138	142	145	145	142	140	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	9.5	9.3	9.1	9.1	9.2	9.3	11.1	12.9	16.0	20.5	25.0	
	LIQ. PRESS.	306	307	308	309	311	313	316	319	327	340	352	
	SUC. PRESS.	124	126	128	131	135	140	144	147	149	148	146	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	8.9	8.7	8.5	8.5	8.6	8.7	10.6	12.5	15.8	20.4	25.0	
	LIQ. PRESS.	328	328	329	330	331	333	337	340	349	363	378	
	SUC. PRESS.	126	128	130	133	137	142	146	150	152	153	153	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	8.4	8.2	7.9	7.9	8.0	9.3	10.2	12.2	15.6	20.3	25.0	
	LIQ. PRESS.	350	351	351	352	354	357	360	364	374	389	404	
	SUC. PRESS.	128	130	131	134	139	143	147	152	154	156	158	
95	SH	5.0	5.0	5.0	5.8	7.3	15.2	11.2	13.7	16.4	19.5	22.9	
	SC	7.9	7.6	7.3	7.3	7.5	9.8	9.8	11.9	15.3	20.2	25.0	
	LIQ. PRESS.	373	373	374	375	377	380	384	388	399	415	431	
	SUC. PRESS.	130	131	132	135	140	144	149	153	157	159	162	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	7.4	7.1	6.8	6.8	7.0	8.3	9.4	11.6	15.2	20.1	25.0	
	LIQ. PRESS.	398	398	399	400	402	405	410	415	426	444	461	
	SUC. PRESS.	132	133	134	137	141	146	150	155	159	162	165	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	6.9	6.6	6.3	6.2	6.5	6.7	9.0	11.3	15.0	20.0	25.0	
	LIQ. PRESS.	424	423	423	425	427	430	436	441	453	473	492	
	SUC. PRESS.	134	135	135	138	143	148	152	156	160	164	168	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	6.5	6.1	5.7	5.7	6.0	6.3	8.7	11.1	14.8	19.9	25.0	
	LIQ. PRESS.	451	451	450	452	454	457	463	469	482	503	524	
	SUC. PRESS.	136	137	137	139	144	149	153	158	162	166	169	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	6.1	5.7	5.2	5.2	5.5	5.8	8.3	10.8	14.6	19.8	25.0	
	LIQ. PRESS.	478	478	477	479	481	484	491	497	511	533	556	
	SUC. PRESS.	138	138	138	141	146	150	155	159	163	167	171	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve
 -Subcooling tolerance is ± 1°F
 -Superheat tolerance is ± 1°F
 -The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)D4M1RN36KA W/ TXV INDOOR UNIT
(3.0 TON / ROTARY COMPRESSOR)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.3	8.7	9.1	9.6	10.2	11.0	12.0	13.3	14.9	16.9	19.3
		LIQ. PRESS.	226	228	230	232	235	237	241	244	248	253	257
		SUC. PRESS.	116	119	122	126	131	135	141	146	152	156	161
	65	SC	9.8	10.1	10.3	10.7	11.1	11.7	12.6	13.7	15.1	16.9	19.1
		LIQ. PRESS.	247	248	250	252	255	257	260	263	267	271	276
		SUC. PRESS.	118	121	123	127	132	137	142	147	152	157	162
	70	SC	10.9	11.0	11.1	11.3	11.6	12.1	12.8	13.7	14.9	16.5	18.5
		LIQ. PRESS.	267	269	270	272	275	277	280	282	286	290	294
		SUC. PRESS.	120	122	125	128	133	138	142	147	151	157	162
	75	SC	11.6	11.6	11.6	11.6	11.8	12.1	12.7	13.4	14.5	16.0	17.8
		LIQ. PRESS.	288	289	290	292	294	297	299	301	304	309	313
		SUC. PRESS.	121	124	126	129	134	139	143	147	151	157	162
	80	SC	11.9	11.8	11.7	11.7	11.8	12.0	12.4	13.0	14.0	15.3	16.9
		LIQ. PRESS.	310	311	312	313	315	317	320	322	326	330	335
		SUC. PRESS.	123	125	127	131	135	140	145	149	154	159	165
	85	SC	12.0	11.9	11.7	11.6	11.6	11.7	12.0	12.5	13.4	14.5	16.1
		LIQ. PRESS.	332	333	333	335	336	338	341	344	348	352	357
		SUC. PRESS.	125	126	128	132	136	141	146	151	156	162	167
	90	SC	12.0	11.8	11.6	11.5	11.4	11.4	11.6	12.1	12.8	13.9	15.3
		LIQ. PRESS.	356	356	356	358	359	361	364	367	371	376	381
		SUC. PRESS.	126	128	129	133	137	144	147	152	158	163	169
	95	SC	12.0	11.8	11.6	11.4	11.2	10.5	11.4	11.7	12.4	13.3	14.7
		LIQ. PRESS.	379	379	380	380	382	385	387	390	395	399	404
		SUC. PRESS.	128	129	131	134	139	147	148	153	159	164	170
100	SC	12.0	11.8	11.6	11.4	11.2	11.2	11.3	11.6	12.2	13.1	14.4	
	LIQ. PRESS.	405	405	405	406	408	411	413	417	421	426	431	
	SUC. PRESS.	129	130	132	135	140	146	149	155	160	165	171	
105	SC	12.3	12.1	11.9	11.6	11.5	11.4	11.5	11.8	12.3	13.2	14.4	
	LIQ. PRESS.	430	430	430	431	434	436	439	443	447	452	458	
	SUC. PRESS.	131	132	133	136	141	145	151	156	161	166	172	
110	SC	12.7	12.6	12.4	12.2	12.0	12.0	12.1	12.4	12.9	13.7	14.9	
	LIQ. PRESS.	460	460	460	461	463	466	469	473	477	483	488	
	SUC. PRESS.	133	133	134	137	142	146	152	157	162	167	173	
115	SC	13.6	13.5	13.3	13.2	13.1	13.0	13.2	13.5	14.0	14.8	16.0	
	LIQ. PRESS.	490	490	490	491	493	496	499	503	508	514	519	
	SUC. PRESS.	134	135	135	138	143	147	153	158	163	168	174	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)D4M1SN42K W/ FIXED ORIFICE INDOOR UNIT
(3.5 TON / SCROLL COMPRESSOR)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	11.1	11.5	11.9	12.4	12.8	13.3	13.3	13.3	12.9	12.1	11.3
		LIQ. PRESS.	222	223	224	226	228	230	229	229	227	223	220
		SUC. PRESS.	115	118	121	124	128	132	131	131	128	121	115
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	10.9	11.4	11.9	12.4	12.9	13.4	13.5	13.6	13.3	12.6	11.9
		LIQ. PRESS.	241	243	244	246	248	250	251	251	250	247	244
		SUC. PRESS.	117	120	122	126	130	134	134	135	133	128	123
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	10.7	11.2	11.8	12.4	13.0	13.6	13.8	14.0	13.8	13.2	12.6
		LIQ. PRESS.	261	263	264	266	269	271	272	273	272	270	267
		SUC. PRESS.	119	121	124	127	131	135	137	140	139	135	131
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	10.5	11.1	11.7	12.3	13.0	13.7	14.0	14.3	14.2	13.7	13.2	
	LIQ. PRESS.	281	283	284	286	289	291	293	295	295	293	291	
	SUC. PRESS.	121	123	125	128	133	137	140	144	145	142	139	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	10.0	10.7	11.3	12.0	12.8	13.6	14.0	14.4	14.4	14.0	13.6	
	LIQ. PRESS.	303	304	306	308	311	314	316	318	319	317	316	
	SUC. PRESS.	123	125	127	130	134	138	142	146	148	147	146	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	9.5	10.2	10.9	11.7	12.6	13.5	14.0	14.5	14.6	14.3	14.0	
	LIQ. PRESS.	324	326	327	330	333	336	339	341	343	342	342	
	SUC. PRESS.	125	126	128	131	136	140	144	149	151	152	153	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	8.8	9.6	10.4	11.2	12.2	12.1	13.8	14.4	14.6	14.4	14.3	
	LIQ. PRESS.	347	349	350	353	356	358	363	366	368	368	368	
	SUC. PRESS.	127	128	130	133	137	142	146	150	154	155	157	
95	SH	5.0	5.0	5.0	5.8	7.3	4.2	11.2	13.7	16.4	19.5	22.9	
	SC	8.0	8.9	9.8	10.7	11.8	10.7	13.5	14.2	14.6	14.6	14.6	
	LIQ. PRESS.	371	372	374	376	380	379	387	390	393	394	395	
	SUC. PRESS.	129	130	131	134	138	143	148	152	156	159	162	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	7.0	8.0	9.0	10.0	11.2	11.3	13.2	14.0	14.5	14.6	14.8	
	LIQ. PRESS.	395	397	398	401	405	407	413	417	420	422	423	
	SUC. PRESS.	131	132	133	135	140	145	149	154	158	161	165	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	6.0	7.1	8.2	9.3	10.6	11.8	12.8	13.8	14.4	14.7	14.9	
	LIQ. PRESS.	420	422	423	426	430	435	439	443	447	449	452	
	SUC. PRESS.	134	134	134	137	141	146	151	155	160	164	168	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	4.9	6.0	7.2	8.5	9.8	11.2	12.3	13.4	14.2	14.6	15.0	
	LIQ. PRESS.	447	448	450	453	457	462	467	471	475	478	481	
	SUC. PRESS.	136	136	136	138	143	147	152	157	161	166	170	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	3.7	5.0	6.3	7.6	9.1	10.6	11.8	13.1	14.0	14.5	15.1	
	LIQ. PRESS.	473	475	476	479	484	489	494	500	504	508	511	
	SUC. PRESS.	139	138	138	140	144	149	154	158	163	167	172	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve

-Subcooling tolerance is ± 1°F

-Superheat tolerance is ± 1°F

-The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.

-Boxed data point is the performance rated condition

-Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)D4M1SN42K W/ TXV INDOOR UNIT
(3.5 TON / SCROLL COMPRESSOR)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.3	8.7	9.1	9.6	10.2	11.0	12.0	13.3	14.9	16.9	19.3
		LIQ. PRESS.	213	214	215	217	219	221	225	228	233	239	245
		SUC. PRESS.	127	129	131	134	139	143	149	154	159	164	169
	65	SC	9.8	10.1	10.3	10.7	11.1	11.7	12.6	13.7	15.1	16.9	19.1
		LIQ. PRESS.	234	234	235	237	239	241	244	248	252	258	264
		SUC. PRESS.	128	130	131	135	139	144	149	155	160	165	170
	70	SC	10.9	11.0	11.1	11.3	11.6	12.1	12.8	13.7	14.9	16.5	18.5
		LIQ. PRESS.	254	255	255	257	259	261	264	267	272	277	283
		SUC. PRESS.	129	131	132	135	140	145	150	156	161	166	172
	75	SC	11.6	11.6	11.6	11.6	11.8	12.1	12.7	13.4	14.5	16.0	17.8
		LIQ. PRESS.	274	275	275	277	279	281	284	287	291	297	302
		SUC. PRESS.	130	132	133	136	141	146	151	157	162	167	173
	80	SC	11.9	11.8	11.7	11.7	11.8	12.0	12.4	13.0	14.0	15.3	16.9
		LIQ. PRESS.	296	297	297	298	300	302	305	308	312	317	322
		SUC. PRESS.	132	133	134	137	142	147	152	157	163	169	174
	85	SC	12.0	11.9	11.7	11.6	11.6	11.7	12.0	12.5	13.4	14.5	16.1
		LIQ. PRESS.	318	318	318	319	321	323	326	329	333	338	343
		SUC. PRESS.	133	134	135	138	143	148	153	158	164	170	175
	90	SC	12.0	11.8	11.6	11.5	11.4	11.4	11.6	12.1	12.8	13.9	15.3
		LIQ. PRESS.	342	342	341	342	344	349	349	351	355	360	366
		SUC. PRESS.	135	135	136	139	144	143	154	159	165	171	177
95	SC	12.0	11.8	11.6	11.4	11.2	11.3	11.4	11.7	12.4	13.3	14.7	
	LIQ. PRESS.	366	365	365	365	367	376	372	374	378	383	388	
	SUC. PRESS.	137	137	137	140	145	139	155	161	166	172	178	
100	SC	12.0	11.8	11.6	11.4	11.2	11.2	11.3	11.6	12.2	13.1	14.4	
	LIQ. PRESS.	392	392	391	392	393	398	398	400	404	409	414	
	SUC. PRESS.	138	138	139	141	146	145	156	162	167	173	179	
105	SC	12.3	12.1	11.9	11.6	11.5	11.4	11.5	11.8	12.3	13.2	14.4	
	LIQ. PRESS.	419	418	417	418	419	421	424	426	430	435	441	
	SUC. PRESS.	140	140	140	142	147	152	157	163	168	174	180	
110	SC	12.7	12.6	12.4	12.2	12.0	12.0	12.1	12.4	12.9	13.7	14.9	
	LIQ. PRESS.	450	449	448	449	450	452	455	458	462	467	473	
	SUC. PRESS.	142	142	142	144	149	153	158	164	169	175	181	
115	SC	13.6	13.5	13.3	13.2	13.1	13.0	13.2	13.5	14.0	14.8	16.0	
	LIQ. PRESS.	481	480	479	480	481	483	486	489	493	499	505	
	SUC. PRESS.	144	144	144	146	150	154	160	165	171	176	182	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)D4M1SN48(C,D,K) W/ FIXED ORIFICE INDOOR UNIT
(4.0 TON / SCROLL COMPRESSOR / SINGLE & THREE PHASE MODLES)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	8.7	9.1	9.5	10.0	10.4	10.9	10.9	10.9	10.5	9.7	8.9
		LIQ. PRESS.	222	223	225	227	229	231	231	231	230	227	224
		SUC. PRESS.	106	109	113	116	120	124	125	126	124	119	114
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	8.5	9.0	9.5	10.0	10.5	11.0	11.1	11.2	10.9	10.2	9.5
		LIQ. PRESS.	242	243	245	247	249	251	252	253	252	250	247
		SUC. PRESS.	108	111	114	118	122	126	128	130	129	125	122
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	8.3	8.8	9.4	10.0	10.6	11.2	11.4	11.6	11.4	10.8	10.2
		LIQ. PRESS.	262	263	265	267	270	272	274	275	275	273	271
		SUC. PRESS.	110	113	116	119	123	127	130	133	134	132	129
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	8.1	8.7	9.3	9.9	10.6	11.3	11.6	11.9	11.8	11.3	10.8	
	LIQ. PRESS.	282	283	285	288	290	293	295	297	297	296	295	
	SUC. PRESS.	111	114	117	121	125	129	133	137	138	138	137	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	7.6	8.3	8.9	9.6	10.4	11.2	11.6	12.0	12.0	11.6	11.2	
	LIQ. PRESS.	303	305	307	310	312	315	318	320	321	321	320	
	SUC. PRESS.	113	116	119	123	127	131	135	139	141	142	143	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	7.1	7.8	8.5	9.3	10.2	11.1	11.6	12.1	12.2	11.9	11.6	
	LIQ. PRESS.	325	327	329	331	334	337	340	343	344	345	345	
	SUC. PRESS.	116	118	121	124	128	132	137	141	144	146	148	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	6.4	7.2	8.0	8.8	9.8	10.5	11.4	12.0	12.2	12.0	11.9	
	LIQ. PRESS.	348	350	352	355	358	358	364	367	370	371	372	
	SUC. PRESS.	118	120	122	126	130	135	138	143	146	149	152	
95	SH	5.0	5.0	5.0	5.8	7.3	12.5	11.2	13.7	16.4	19.5	22.9	
	SC	5.6	6.5	7.4	8.3	9.4	9.8	11.1	11.8	12.2	12.2	12.2	
	LIQ. PRESS.	371	373	375	378	382	379	389	392	395	396	398	
	SUC. PRESS.	120	122	124	127	131	137	140	144	148	152	156	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	4.6	5.6	6.6	7.6	8.8	9.6	10.8	11.6	12.1	12.2	12.4	
	LIQ. PRESS.	396	398	400	403	407	407	415	418	421	424	426	
	SUC. PRESS.	122	124	126	129	133	138	142	146	150	154	158	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	3.6	4.7	5.8	6.9	8.2	9.4	10.4	11.4	12.0	12.3	12.5	
	LIQ. PRESS.	421	423	425	428	432	436	440	445	448	451	453	
	SUC. PRESS.	125	126	128	130	135	139	143	148	152	157	161	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	3.3	4.1	5.0	6.1	7.4	8.8	9.9	11.0	11.8	12.2	12.6	
	LIQ. PRESS.	449	450	452	455	459	464	468	472	476	479	483	
	SUC. PRESS.	127	128	129	132	136	141	145	150	154	158	163	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	3.0	3.6	4.2	5.2	6.7	8.2	9.4	10.7	11.6	12.1	12.7	
	LIQ. PRESS.	476	477	479	481	486	491	495	500	505	508	512	
	SUC. PRESS.	130	130	131	134	138	142	147	151	156	160	165	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve

-Subcooling tolerance is ± 1°F

-Superheat tolerance is ± 1°F

-The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.

-Boxed data point is the performance rated condition

-Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)D4M1SN48(C,D,K) W/ TXV INDOOR UNIT
(4.0 TON / SCROLL COMPRESSOR / SINGLE & THREE PHASE MODELS)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.3	8.7	9.1	9.6	10.2	11.0	12.0	13.3	14.9	16.9	19.3
		LIQ. PRESS.	223	225	227	229	231	234	237	241	245	251	257
		SUC. PRESS.	111	114	118	122	126	130	135	140	144	149	154
	65	SC	9.8	10.1	10.3	10.7	11.1	11.7	12.6	13.7	15.1	16.9	19.1
		LIQ. PRESS.	244	246	247	249	252	254	258	261	266	271	277
		SUC. PRESS.	112	116	119	123	127	132	136	141	145	150	155
	70	SC	10.9	11.0	11.1	11.3	11.6	12.1	12.8	13.7	14.9	16.5	18.5
		LIQ. PRESS.	265	266	268	270	272	275	278	281	286	291	297
		SUC. PRESS.	113	117	120	124	128	133	137	142	147	151	156
	75	SC	11.6	11.6	11.6	11.6	11.8	12.1	12.7	13.4	14.5	16.0	17.8
		LIQ. PRESS.	286	287	289	291	293	295	299	302	306	312	317
		SUC. PRESS.	115	118	121	125	129	134	138	143	148	153	157
	80	SC	11.9	11.8	11.7	11.7	11.8	12.0	12.4	13.0	14.0	15.3	16.9
		LIQ. PRESS.	308	309	311	313	315	317	320	324	328	333	338
		SUC. PRESS.	116	119	122	126	130	135	140	144	149	154	159
	85	SC	12.0	11.9	11.7	11.6	11.6	11.7	12.0	12.5	13.4	14.5	16.1
		LIQ. PRESS.	330	332	333	335	337	339	342	345	350	355	360
		SUC. PRESS.	118	121	123	127	132	136	141	146	150	155	160
90	SC	12.0	11.8	11.6	11.5	11.4	11.4	11.6	12.1	12.8	13.9	15.3	
	LIQ. PRESS.	355	356	357	358	361	361	366	369	373	378	383	
	SUC. PRESS.	119	122	125	128	133	138	142	147	152	157	162	
95	SC	12.0	11.8	11.6	11.4	11.2	9.8	11.4	11.7	12.4	13.3	14.7	
	LIQ. PRESS.	379	380	381	382	384	384	390	393	397	402	407	
	SUC. PRESS.	121	123	126	129	134	139	143	148	153	158	163	
100	SC	12.0	11.8	11.6	11.4	11.2	11.2	11.3	11.6	12.2	13.1	14.4	
	LIQ. PRESS.	405	406	407	409	411	412	416	420	424	429	434	
	SUC. PRESS.	123	125	127	131	135	140	145	149	154	159	164	
105	SC	12.3	12.1	11.9	11.6	11.5	11.4	11.5	11.8	12.3	13.2	14.4	
	LIQ. PRESS.	432	433	433	435	437	440	443	446	450	455	461	
	SUC. PRESS.	125	126	128	132	136	141	146	151	156	161	166	
110	SC	12.7	12.6	12.4	12.2	12.0	12.0	12.1	12.4	12.9	13.7	14.9	
	LIQ. PRESS.	463	463	464	465	468	470	474	477	482	487	493	
	SUC. PRESS.	126	128	130	133	138	142	147	152	157	162	167	
115	SC	13.6	13.5	13.3	13.2	13.1	13.0	13.2	13.5	14.0	14.8	16.0	
	LIQ. PRESS.	494	494	494	496	498	501	504	508	513	519	525	
	SUC. PRESS.	128	130	131	134	139	144	148	153	158	163	168	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)BD4M1SN60(C,D,K) W/ FIXED ORIFICE INDOOR UNIT
(5.0 TON / SCROLL COMPRESSOR / SINGLE & THREE PHASE MODELS)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	16.1	14.7	13.4	12.1	10.7	9.3	9.2	9.1	10.4	13.0	15.6
		LIQ. PRESS.	232	231	231	231	232	232	231	231	232	233	234
		SUC. PRESS.	102	106	109	113	117	121	121	122	120	117	113
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	16.6	15.1	13.6	12.1	10.5	8.9	8.5	8.2	9.1	11.4	13.6
		LIQ. PRESS.	254	253	252	252	252	252	252	252	252	252	252
		SUC. PRESS.	103	107	111	115	119	123	124	125	124	120	116
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	17.2	15.5	13.9	12.1	10.3	8.5	7.9	7.2	7.9	9.8	11.7
		LIQ. PRESS.	276	274	273	273	272	272	272	273	272	272	271
		SUC. PRESS.	104	108	112	116	120	124	127	129	128	123	118
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	17.7	15.9	14.1	12.2	10.1	8.1	7.2	6.3	6.6	8.1	9.7	
	LIQ. PRESS.	298	296	294	293	293	292	293	293	293	291	290	
	SUC. PRESS.	105	109	113	117	122	126	129	133	132	126	121	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	19.2	17.2	15.2	13.1	10.8	8.5	7.2	6.0	6.0	7.2	8.4	
	LIQ. PRESS.	325	322	319	317	316	315	315	316	315	314	313	
	SUC. PRESS.	107	111	114	119	123	127	131	135	135	131	127	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	20.7	18.5	16.3	13.9	11.4	8.8	7.3	5.8	5.4	6.3	7.1	
	LIQ. PRESS.	353	349	344	341	340	338	338	338	338	337	336	
	SUC. PRESS.	108	112	116	120	124	129	133	137	138	136	133	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	22.9	20.5	18.1	15.5	12.6	10.7	7.9	6.1	5.4	5.8	6.3	
	LIQ. PRESS.	388	381	375	370	367	365	363	363	363	362	362	
	SUC. PRESS.	110	113	117	121	126	131	135	139	141	140	139	
95	SH	5.0	5.0	5.0	5.8	7.3	4.9	11.2	13.7	16.4	19.5	22.9	
	SC	25.0	22.4	19.9	17.0	13.9	12.5	8.6	6.4	5.3	5.4	5.5	
	LIQ. PRESS.	423	414	406	399	394	392	389	388	388	387	387	
	SUC. PRESS.	112	115	118	122	127	134	136	141	143	144	144	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	25.0	23.4	21.7	19.2	15.7	13.2	9.7	7.1	5.7	5.3	5.0	
	LIQ. PRESS.	453	448	442	435	427	420	417	416	415	414	414	
	SUC. PRESS.	114	117	120	124	128	134	138	142	145	147	148	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	25.0	24.3	23.6	21.3	17.6	13.8	10.8	7.9	6.0	5.3	4.5	
	LIQ. PRESS.	483	481	478	472	460	449	446	443	442	441	441	
	SUC. PRESS.	116	118	121	125	130	134	139	144	148	150	152	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	25.0	24.6	24.3	22.4	19.0	15.7	12.3	9.0	6.7	5.5	4.3	
	LIQ. PRESS.	516	515	514	508	496	484	479	474	471	470	469	
	SUC. PRESS.	118	120	123	126	131	135	140	145	149	152	155	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	25.0	25.0	25.0	23.5	20.5	17.5	13.8	10.1	7.4	5.7	4.0	
	LIQ. PRESS.	548	549	550	545	532	520	512	504	500	498	497	
	SUC. PRESS.	120	122	124	128	132	137	142	147	151	155	158	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve
 -Subcooling tolerance is ± 1°F
 -Superheat tolerance is ± 1°F
 -The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)BD4M1SN60(C,D,K) W/ TXV INDOOR UNIT
(5.0 TON / SCROLL COMPRESSOR / SINGLE & THREE PHASE MODELS)**

13 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.3	8.7	9.1	9.6	10.2	11.0	12.0	13.3	14.9	16.9	19.3
		LIQ. PRESS.	222	224	226	228	231	233	237	240	245	250	256
		SUC. PRESS.	107	111	114	118	122	127	131	136	140	145	150
	65	SC	9.8	10.1	10.3	10.7	11.1	11.7	12.6	13.7	15.1	16.9	19.1
		LIQ. PRESS.	243	245	247	249	251	254	257	261	265	271	276
		SUC. PRESS.	108	112	115	119	123	128	132	137	141	146	151
	70	SC	10.9	11.0	11.1	11.3	11.6	12.1	12.8	13.7	14.9	16.5	18.5
		LIQ. PRESS.	264	266	267	270	272	274	278	281	285	291	297
		SUC. PRESS.	110	113	116	120	125	129	133	138	143	147	152
	75	SC	11.6	11.6	11.6	11.6	11.8	12.1	12.7	13.4	14.5	16.0	17.8
		LIQ. PRESS.	285	287	288	290	293	295	298	302	306	311	317
		SUC. PRESS.	111	114	117	121	126	130	135	139	144	149	154
	80	SC	11.9	11.8	11.7	11.7	11.8	12.0	12.4	13.0	14.0	15.3	16.9
		LIQ. PRESS.	307	309	310	312	315	317	320	323	328	333	338
		SUC. PRESS.	112	115	119	122	127	131	136	140	145	150	155
	85	SC	12.0	11.9	11.7	11.6	11.6	11.7	12.0	12.5	13.4	14.5	16.1
		LIQ. PRESS.	330	331	332	334	337	339	342	345	350	355	360
		SUC. PRESS.	114	117	120	123	128	133	137	142	146	151	156
	90	SC	12.0	11.8	11.6	11.5	11.4	11.4	11.6	12.1	12.8	13.9	15.3
		LIQ. PRESS.	354	355	356	358	361	366	366	369	373	378	383
		SUC. PRESS.	115	118	121	125	129	134	138	143	148	153	158
	95	SC	12.0	11.8	11.6	11.4	11.2	14.5	11.4	11.7	12.4	13.3	14.7
		LIQ. PRESS.	378	379	380	382	384	392	390	393	397	402	407
		SUC. PRESS.	117	120	122	126	130	135	140	144	149	154	159
100	SC	12.0	11.8	11.6	11.4	11.2	11.2	11.3	11.6	12.2	13.1	14.4	
	LIQ. PRESS.	405	406	407	409	411	416	416	420	424	429	434	
	SUC. PRESS.	119	121	124	127	132	136	141	146	151	155	160	
105	SC	12.3	12.1	11.9	11.6	11.5	11.4	11.5	11.8	12.3	13.2	14.4	
	LIQ. PRESS.	432	433	433	435	437	440	443	446	451	456	461	
	SUC. PRESS.	121	123	125	128	133	137	142	147	152	157	162	
110	SC	12.7	12.6	12.4	12.2	12.0	12.0	12.1	12.4	12.9	13.7	14.9	
	LIQ. PRESS.	463	463	464	465	468	470	474	477	482	487	493	
	SUC. PRESS.	122	124	126	129	134	139	143	148	153	158	163	
115	SC	13.6	13.5	13.3	13.2	13.1	13.0	13.2	13.5	14.0	14.8	16.0	
	LIQ. PRESS.	493	494	494	496	498	501	504	508	513	519	525	
	SUC. PRESS.	124	126	128	131	135	140	145	150	155	160	165	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)BE4M1SN18K W/ FIXED ORIFICE INDOOR UNIT
(1.5 TON / SCROLL COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	10.0	9.9	9.8	9.8	9.9	10.0	10.2	10.5	10.9	11.3	11.7
		LIQ. PRESS.	202	201	201	201	202	203	204	205	207	209	211
		SUC. PRESS.	120	120	120	120	121	122	124	126	128	131	135
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	10.2	10.1	10.1	10.2	10.3	10.5	10.8	11.1	11.5	12.0	12.6
		LIQ. PRESS.	219	219	219	219	220	221	222	224	226	228	230
		SUC. PRESS.	124	124	124	125	126	127	129	132	134	137	141
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	10.2	10.2	10.2	10.4	10.6	10.8	11.2	11.6	12.1	12.6	13.2
		LIQ. PRESS.	237	237	237	238	239	240	241	243	245	248	250
		SUC. PRESS.	128	128	128	129	131	132	134	137	140	143	147
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	10.0	10.1	10.2	10.4	10.7	11.1	11.5	11.9	12.5	13.1	13.8	
	LIQ. PRESS.	256	256	256	257	258	260	261	263	265	268	271	
	SUC. PRESS.	131	132	132	133	135	137	139	142	145	149	153	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	9.8	9.9	10.1	10.4	10.7	11.1	11.6	12.1	12.7	13.4	14.2	
	LIQ. PRESS.	275	276	276	277	279	280	282	284	287	289	292	
	SUC. PRESS.	135	135	136	137	139	141	143	146	150	154	158	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	9.4	9.6	9.8	10.2	10.6	11.0	11.6	12.2	12.9	13.6	14.4	
	LIQ. PRESS.	296	296	297	298	300	301	303	306	308	311	315	
	SUC. PRESS.	137	138	139	141	142	145	148	151	154	158	163	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	8.8	9.1	9.4	9.8	10.3	10.8	11.4	12.1	12.9	13.7	14.6	
	LIQ. PRESS.	317	318	319	320	322	324	326	328	331	334	338	
	SUC. PRESS.	140	141	142	144	146	148	151	155	159	163	167	
95	SH	5.0	5.0	5.0	5.8	7.3	3.0	11.2	13.7	16.4	19.5	22.9	
	SC	8.1	8.5	8.9	9.3	9.9	10.0	11.2	11.9	12.7	13.6	14.6	
	LIQ. PRESS.	339	340	341	343	344	359	349	352	355	358	362	
	SUC. PRESS.	142	143	144	146	149	152	155	158	162	167	172	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	7.3	7.7	8.2	8.7	9.3	10.0	10.8	11.6	12.5	13.4	14.4	
	LIQ. PRESS.	362	363	364	366	368	370	373	376	379	383	386	
	SUC. PRESS.	144	145	147	149	151	154	158	162	166	171	176	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	6.4	6.8	7.4	8.0	8.7	9.4	10.2	11.1	12.0	13.1	14.1	
	LIQ. PRESS.	386	387	388	390	392	395	398	401	404	408	412	
	SUC. PRESS.	145	146	148	151	154	157	160	165	169	174	179	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	5.3	5.8	6.4	7.1	7.8	8.6	9.5	10.5	11.5	12.6	13.7	
	LIQ. PRESS.	410	412	413	415	418	420	423	427	430	434	438	
	SUC. PRESS.	146	148	150	153	156	159	163	167	172	177	183	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	4.1	4.7	5.3	6.1	6.9	7.8	8.7	9.7	10.8	12.0	13.2	
	LIQ. PRESS.	435	437	439	441	444	447	450	453	457	461	465	
	SUC. PRESS.	147	149	151	154	157	161	165	169	174	180	186	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve
 -Subcooling tolerance is ± 1°F
 -Superheat tolerance is ± 1°F
 -The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)BE4M1SN18K W/ TXV INDOOR UNIT
(1.5 TON / SCROLL COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.6	8.7	8.6	8.5	8.3	8.1	7.8	7.6	7.4	7.2	7.0
		LIQ. PRESS.	197	197	197	197	198	199	200	201	202	204	206
		SUC. PRESS.	126	127	129	132	136	140	145	152	159	167	175
	65	SC	8.7	8.7	8.7	8.6	8.4	8.2	8.0	7.8	7.6	7.4	7.3
		LIQ. PRESS.	214	214	214	214	215	216	217	218	219	221	223
		SUC. PRESS.	128	129	131	133	137	141	147	153	160	168	176
	70	SC	8.9	9.0	8.9	8.8	8.6	8.5	8.3	8.1	8.0	7.9	7.8
		LIQ. PRESS.	232	232	232	233	233	234	235	236	238	239	241
		SUC. PRESS.	130	130	132	135	138	143	148	154	161	169	177
	75	SC	9.3	9.3	9.2	9.1	9.0	8.8	8.7	8.6	8.5	8.4	8.4
		LIQ. PRESS.	251	251	252	252	253	254	255	256	257	259	261
		SUC. PRESS.	131	132	134	136	140	144	149	155	162	170	179
	80	SC	9.7	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0	9.0	9.1
		LIQ. PRESS.	272	272	272	273	274	274	275	277	278	280	281
		SUC. PRESS.	133	133	135	138	141	145	150	156	163	171	180
	85	SC	10.1	10.1	10.1	10.0	9.9	9.8	9.7	9.7	9.7	9.7	9.9
		LIQ. PRESS.	294	294	294	295	295	296	297	298	300	301	303
		SUC. PRESS.	134	135	136	139	142	146	152	157	164	172	180
90	SC	10.6	10.6	10.5	10.5	10.4	10.3	10.3	10.3	10.3	10.5	10.7	
	LIQ. PRESS.	317	317	317	318	318	319	320	322	323	325	326	
	SUC. PRESS.	136	136	138	140	144	148	153	159	165	173	181	
95	SC	11.0	11.0	11.0	10.9	10.9	9.9	10.9	10.9	11.0	11.2	11.5	
	LIQ. PRESS.	341	341	342	342	343	357	345	346	347	349	351	
	SUC. PRESS.	137	138	139	142	145	148	154	160	166	174	182	
100	SC	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.5	11.7	11.9	12.3	
	LIQ. PRESS.	366	367	367	367	368	369	370	371	373	374	376	
	SUC. PRESS.	139	139	141	143	146	150	155	161	167	175	183	
105	SC	11.7	11.7	11.7	11.7	11.8	11.8	11.9	12.0	12.3	12.6	13.0	
	LIQ. PRESS.	393	393	394	394	395	396	397	398	399	401	403	
	SUC. PRESS.	140	140	142	144	147	151	156	162	168	176	184	
110	SC	11.9	12.0	12.0	12.0	12.1	12.1	12.3	12.5	12.8	13.2	13.7	
	LIQ. PRESS.	421	421	421	422	423	424	425	426	427	429	431	
	SUC. PRESS.	141	142	143	145	148	152	157	163	169	177	185	
115	SC	12.0	12.0	12.1	12.2	12.2	12.4	12.6	12.8	13.2	13.6	14.2	
	LIQ. PRESS.	450	450	450	451	452	453	454	455	456	458	460	
	SUC. PRESS.	143	143	144	146	149	153	158	164	170	177	186	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)BE4M1RN18K W/ FIXED ORIFICE INDOOR UNIT
(1.5 TON / ROTARY COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	10.0	9.9	9.8	9.8	9.9	10.0	10.2	10.5	10.9	11.3	11.7
		LIQ. PRESS.	202	201	201	201	202	203	204	205	207	209	211
		SUC. PRESS.	120	120	120	120	121	122	124	126	128	131	135
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	10.2	10.1	10.1	10.2	10.3	10.5	10.8	11.1	11.5	12.0	12.6
		LIQ. PRESS.	219	219	219	219	220	221	222	224	226	228	230
		SUC. PRESS.	124	124	124	125	126	127	129	132	134	137	141
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	10.2	10.2	10.2	10.4	10.6	10.8	11.2	11.6	12.1	12.6	13.2
		LIQ. PRESS.	237	237	237	238	239	240	241	243	245	248	250
		SUC. PRESS.	128	128	128	129	131	132	134	137	140	143	147
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	10.0	10.1	10.2	10.4	10.7	11.1	11.5	11.9	12.5	13.1	13.8	
	LIQ. PRESS.	256	256	256	257	258	260	261	263	265	268	271	
	SUC. PRESS.	131	132	132	133	135	137	139	142	145	149	153	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	9.8	9.9	10.1	10.4	10.7	11.1	11.6	12.1	12.7	13.4	14.2	
	LIQ. PRESS.	275	276	276	277	279	280	282	284	287	289	292	
	SUC. PRESS.	135	135	136	137	139	141	143	146	150	154	158	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	9.4	9.6	9.8	10.2	10.6	11.0	11.6	12.2	12.9	13.6	14.4	
	LIQ. PRESS.	296	296	297	298	300	301	303	306	308	311	315	
	SUC. PRESS.	137	138	139	141	142	145	148	151	154	158	163	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	8.8	9.1	9.4	9.8	10.3	10.8	11.4	12.1	12.9	13.7	14.6	
	LIQ. PRESS.	317	318	319	320	322	324	326	328	331	334	338	
	SUC. PRESS.	140	141	142	144	146	148	151	155	159	163	167	
95	SH	5.0	5.0	5.0	5.8	7.3	10.1	11.2	13.7	16.4	19.5	22.9	
	SC	8.1	8.5	8.9	9.3	9.9	10.7	11.2	11.9	12.7	13.6	14.6	
	LIQ. PRESS.	339	340	341	343	344	356	349	352	355	358	362	
	SUC. PRESS.	142	143	144	146	149	151	155	158	162	167	172	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	7.3	7.7	8.2	8.7	9.3	10.0	10.8	11.6	12.5	13.4	14.4	
	LIQ. PRESS.	362	363	364	366	368	370	373	376	379	383	386	
	SUC. PRESS.	144	145	147	149	151	154	158	162	166	171	176	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	6.4	6.8	7.4	8.0	8.7	9.4	10.2	11.1	12.0	13.1	14.1	
	LIQ. PRESS.	386	387	388	390	392	395	398	401	404	408	412	
	SUC. PRESS.	145	146	148	151	154	157	160	165	169	174	179	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	5.3	5.8	6.4	7.1	7.8	8.6	9.5	10.5	11.5	12.6	13.7	
	LIQ. PRESS.	410	412	413	415	418	420	423	427	430	434	438	
	SUC. PRESS.	146	148	150	153	156	159	163	167	172	177	183	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	4.1	4.7	5.3	6.1	6.9	7.8	8.7	9.7	10.8	12.0	13.2	
	LIQ. PRESS.	435	437	439	441	444	447	450	453	457	461	465	
	SUC. PRESS.	147	149	151	154	157	161	165	169	174	180	186	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve
 -Subcooling tolerance is ± 1°F
 -Superheat tolerance is ± 1°F
 -The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)BE4M1RN18K W/ TXV INDOOR UNIT
(1.5 TON / ROTARY COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.6	8.7	8.6	8.5	8.3	8.1	7.8	7.6	7.4	7.2	7.0
		LIQ. PRESS.	197	197	197	197	198	199	200	201	202	204	206
		SUC. PRESS.	126	127	129	132	136	140	145	152	159	167	175
	65	SC	8.7	8.7	8.7	8.6	8.4	8.2	8.0	7.8	7.6	7.4	7.3
		LIQ. PRESS.	214	214	214	214	215	216	217	218	219	221	223
		SUC. PRESS.	128	129	131	133	137	141	147	153	160	168	176
	70	SC	8.9	9.0	8.9	8.8	8.6	8.5	8.3	8.1	8.0	7.9	7.8
		LIQ. PRESS.	232	232	232	233	233	234	235	236	238	239	241
		SUC. PRESS.	130	130	132	135	138	143	148	154	161	169	177
	75	SC	9.3	9.3	9.2	9.1	9.0	8.8	8.7	8.6	8.5	8.4	8.4
		LIQ. PRESS.	251	251	252	252	253	254	255	256	257	259	261
		SUC. PRESS.	131	132	134	136	140	144	149	155	162	170	179
	80	SC	9.7	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0	9.0	9.1
		LIQ. PRESS.	272	272	272	273	274	274	275	277	278	280	281
		SUC. PRESS.	133	133	135	138	141	145	150	156	163	171	180
	85	SC	10.1	10.1	10.1	10.0	9.9	9.8	9.7	9.7	9.7	9.7	9.9
		LIQ. PRESS.	294	294	294	295	295	296	297	298	300	301	303
		SUC. PRESS.	134	135	136	139	142	146	152	157	164	172	180
	90	SC	10.6	10.6	10.5	10.5	10.4	10.3	10.3	10.3	10.3	10.5	10.7
		LIQ. PRESS.	317	317	317	318	318	319	320	322	323	325	326
		SUC. PRESS.	136	136	138	140	144	148	153	159	165	173	181
	95	SC	11.0	11.0	11.0	10.9	10.9	8.8	10.9	10.9	11.0	11.2	11.5
		LIQ. PRESS.	341	341	342	342	343	352	345	346	347	349	351
		SUC. PRESS.	137	138	139	142	145	149	154	160	166	174	182
100	SC	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.5	11.7	11.9	12.3	
	LIQ. PRESS.	366	367	367	367	368	369	370	371	373	374	376	
	SUC. PRESS.	139	139	141	143	146	150	155	161	167	175	183	
105	SC	11.7	11.7	11.7	11.7	11.8	11.8	11.9	12.0	12.3	12.6	13.0	
	LIQ. PRESS.	393	393	394	394	395	396	397	398	399	401	403	
	SUC. PRESS.	140	140	142	144	147	151	156	162	168	176	184	
110	SC	11.9	12.0	12.0	12.0	12.1	12.1	12.3	12.5	12.8	13.2	13.7	
	LIQ. PRESS.	421	421	421	422	423	424	425	426	427	429	431	
	SUC. PRESS.	141	142	143	145	148	152	157	163	169	177	185	
115	SC	12.0	12.0	12.1	12.2	12.2	12.4	12.6	12.8	13.2	13.6	14.2	
	LIQ. PRESS.	450	450	450	451	452	453	454	455	456	458	460	
	SUC. PRESS.	143	143	144	146	149	153	158	164	170	177	186	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)E4M1SN24K W/ FIXED ORIFICE INDOOR UNIT
(2.0 TON / SCROLL COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	10.0	9.9	9.8	9.8	9.9	10.0	10.2	10.5	10.9	11.3	11.7
		LIQ. PRESS.	202	201	201	201	202	203	204	205	207	209	211
		SUC. PRESS.	120	120	120	120	121	122	124	126	128	131	135
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	10.2	10.1	10.1	10.2	10.3	10.5	10.8	11.1	11.5	12.0	12.6
		LIQ. PRESS.	219	219	219	219	220	221	222	224	226	228	230
		SUC. PRESS.	124	124	124	125	126	127	129	132	134	137	141
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	10.2	10.2	10.2	10.4	10.6	10.8	11.2	11.6	12.1	12.6	13.2
		LIQ. PRESS.	237	237	237	238	239	240	241	243	245	248	250
		SUC. PRESS.	128	128	128	129	131	132	134	137	140	143	147
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	10.0	10.1	10.2	10.4	10.7	11.1	11.5	11.9	12.5	13.1	13.8	
	LIQ. PRESS.	256	256	256	257	258	260	261	263	265	268	271	
	SUC. PRESS.	131	132	132	133	135	137	139	142	145	149	153	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	9.8	9.9	10.1	10.4	10.7	11.1	11.6	12.1	12.7	13.4	14.2	
	LIQ. PRESS.	275	276	276	277	279	280	282	284	287	289	292	
	SUC. PRESS.	135	135	136	137	139	141	143	146	150	154	158	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	9.4	9.6	9.8	10.2	10.6	11.0	11.6	12.2	12.9	13.6	14.4	
	LIQ. PRESS.	296	296	297	298	300	301	303	306	308	311	315	
	SUC. PRESS.	137	138	139	141	142	145	148	151	154	158	163	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	8.8	9.1	9.4	9.8	10.3	10.8	11.4	12.1	12.9	13.7	14.6	
	LIQ. PRESS.	317	318	319	320	322	324	326	328	331	334	338	
	SUC. PRESS.	140	141	142	144	146	148	151	155	159	163	167	
95	SH	5.0	5.0	5.0	5.8	7.3	8.3	11.2	13.7	16.4	19.5	22.9	
	SC	8.1	8.5	8.9	9.3	9.9	9.1	11.2	11.9	12.7	13.6	14.6	
	LIQ. PRESS.	339	340	341	343	344	369	349	352	355	358	362	
	SUC. PRESS.	142	143	144	146	149	147	155	158	162	167	172	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	7.3	7.7	8.2	8.7	9.3	10.0	10.8	11.6	12.5	13.4	14.4	
	LIQ. PRESS.	362	363	364	366	368	370	373	376	379	383	386	
	SUC. PRESS.	144	145	147	149	151	154	158	162	166	171	176	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	6.4	6.8	7.4	8.0	8.7	9.4	10.2	11.1	12.0	13.1	14.1	
	LIQ. PRESS.	386	387	388	390	392	395	398	401	404	408	412	
	SUC. PRESS.	145	146	148	151	154	157	160	165	169	174	179	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	5.3	5.8	6.4	7.1	7.8	8.6	9.5	10.5	11.5	12.6	13.7	
	LIQ. PRESS.	410	412	413	415	418	420	423	427	430	434	438	
	SUC. PRESS.	146	148	150	153	156	159	163	167	172	177	183	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	4.1	4.7	5.3	6.1	6.9	7.8	8.7	9.7	10.8	12.0	13.2	
	LIQ. PRESS.	435	437	439	441	444	447	450	453	457	461	465	
	SUC. PRESS.	147	149	151	154	157	161	165	169	174	180	186	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve
 -Subcooling tolerance is ± 1°F
 -Superheat tolerance is ± 1°F
 -The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)E4M1SN24K W/ TXV INDOOR UNIT
(2.0 TON / SCROLL COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.6	8.7	8.6	8.5	8.3	8.1	7.8	7.6	7.4	7.2	7.0
		LIQ. PRESS.	197	197	197	197	198	199	200	201	202	204	206
		SUC. PRESS.	126	127	129	132	136	140	145	152	159	167	175
	65	SC	8.7	8.7	8.7	8.6	8.4	8.2	8.0	7.8	7.6	7.4	7.3
		LIQ. PRESS.	214	214	214	214	215	216	217	218	219	221	223
		SUC. PRESS.	128	129	131	133	137	141	147	153	160	168	176
	70	SC	8.9	9.0	8.9	8.8	8.6	8.5	8.3	8.1	8.0	7.9	7.8
		LIQ. PRESS.	232	232	232	233	233	234	235	236	238	239	241
		SUC. PRESS.	130	130	132	135	138	143	148	154	161	169	177
	75	SC	9.3	9.3	9.2	9.1	9.0	8.8	8.7	8.6	8.5	8.4	8.4
		LIQ. PRESS.	251	251	252	252	253	254	255	256	257	259	261
		SUC. PRESS.	131	132	134	136	140	144	149	155	162	170	179
	80	SC	9.7	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0	9.0	9.1
		LIQ. PRESS.	272	272	272	273	274	274	275	277	278	280	281
		SUC. PRESS.	133	133	135	138	141	145	150	156	163	171	180
	85	SC	10.1	10.1	10.1	10.0	9.9	9.8	9.7	9.7	9.7	9.7	9.9
		LIQ. PRESS.	294	294	294	295	295	296	297	298	300	301	303
		SUC. PRESS.	134	135	136	139	142	146	152	157	164	172	180
	90	SC	10.6	10.6	10.5	10.5	10.4	10.3	10.3	10.3	10.3	10.5	10.7
		LIQ. PRESS.	317	317	317	318	318	319	320	322	323	325	326
		SUC. PRESS.	136	136	138	140	144	148	153	159	165	173	181
	95	SC	11.0	11.0	11.0	10.9	10.9	9.9	10.9	10.9	11.0	11.2	11.5
		LIQ. PRESS.	341	341	342	342	343	370	345	346	347	349	351
		SUC. PRESS.	137	138	139	142	145	147	154	160	166	174	182
100	SC	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.5	11.7	11.9	12.3	
	LIQ. PRESS.	366	367	367	367	368	369	370	371	373	374	376	
	SUC. PRESS.	139	139	141	143	146	150	155	161	167	175	183	
105	SC	11.7	11.7	11.7	11.7	11.8	11.8	11.9	12.0	12.3	12.6	13.0	
	LIQ. PRESS.	393	393	394	394	395	396	397	398	399	401	403	
	SUC. PRESS.	140	140	142	144	147	151	156	162	168	176	184	
110	SC	11.9	12.0	12.0	12.0	12.1	12.1	12.3	12.5	12.8	13.2	13.7	
	LIQ. PRESS.	421	421	421	422	423	424	425	426	427	429	431	
	SUC. PRESS.	141	142	143	145	148	152	157	163	169	177	185	
115	SC	12.0	12.0	12.1	12.2	12.2	12.4	12.6	12.8	13.2	13.6	14.2	
	LIQ. PRESS.	450	450	450	451	452	453	454	455	456	458	460	
	SUC. PRESS.	143	143	144	146	149	153	158	164	170	177	186	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)E4M1RN24K W/ FIXED ORIFICE INDOOR UNIT
(2.0 TON / ROTARY COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	10.0	9.9	9.8	9.8	9.9	10.0	10.2	10.5	10.9	11.3	11.7
		LIQ. PRESS.	202	201	201	201	202	203	204	205	207	209	211
		SUC. PRESS.	120	120	120	120	121	122	124	126	128	131	135
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	10.2	10.1	10.1	10.2	10.3	10.5	10.8	11.1	11.5	12.0	12.6
		LIQ. PRESS.	219	219	219	219	220	221	222	224	226	228	230
		SUC. PRESS.	124	124	124	125	126	127	129	132	134	137	141
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	10.2	10.2	10.2	10.4	10.6	10.8	11.2	11.6	12.1	12.6	13.2
		LIQ. PRESS.	237	237	237	238	239	240	241	243	245	248	250
		SUC. PRESS.	128	128	128	129	131	132	134	137	140	143	147
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	10.0	10.1	10.2	10.4	10.7	11.1	11.5	11.9	12.5	13.1	13.8	
	LIQ. PRESS.	256	256	256	257	258	260	261	263	265	268	271	
	SUC. PRESS.	131	132	132	133	135	137	139	142	145	149	153	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	9.8	9.9	10.1	10.4	10.7	11.1	11.6	12.1	12.7	13.4	14.2	
	LIQ. PRESS.	275	276	276	277	279	280	282	284	287	289	292	
	SUC. PRESS.	135	135	136	137	139	141	143	146	150	154	158	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	9.4	9.6	9.8	10.2	10.6	11.0	11.6	12.2	12.9	13.6	14.4	
	LIQ. PRESS.	296	296	297	298	300	301	303	306	308	311	315	
	SUC. PRESS.	137	138	139	141	142	145	148	151	154	158	163	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	8.8	9.1	9.4	9.8	10.3	10.8	11.4	12.1	12.9	13.7	14.6	
	LIQ. PRESS.	317	318	319	320	322	324	326	328	331	334	338	
	SUC. PRESS.	140	141	142	144	146	148	151	155	159	163	167	
95	SH	5.0	5.0	5.0	5.8	7.3	10.8	11.2	13.7	16.4	19.5	22.9	
	SC	8.1	8.5	8.9	9.3	9.9	9.4	11.2	11.9	12.7	13.6	14.6	
	LIQ. PRESS.	339	340	341	343	344	368	349	352	355	358	362	
	SUC. PRESS.	142	143	144	146	149	146	155	158	162	167	172	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	7.3	7.7	8.2	8.7	9.3	10.0	10.8	11.6	12.5	13.4	14.4	
	LIQ. PRESS.	362	363	364	366	368	370	373	376	379	383	386	
	SUC. PRESS.	144	145	147	149	151	154	158	162	166	171	176	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	6.4	6.8	7.4	8.0	8.7	9.4	10.2	11.1	12.0	13.1	14.1	
	LIQ. PRESS.	386	387	388	390	392	395	398	401	404	408	412	
	SUC. PRESS.	145	146	148	151	154	157	160	165	169	174	179	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	5.3	5.8	6.4	7.1	7.8	8.6	9.5	10.5	11.5	12.6	13.7	
	LIQ. PRESS.	410	412	413	415	418	420	423	427	430	434	438	
	SUC. PRESS.	146	148	150	153	156	159	163	167	172	177	183	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	4.1	4.7	5.3	6.1	6.9	7.8	8.7	9.7	10.8	12.0	13.2	
	LIQ. PRESS.	435	437	439	441	444	447	450	453	457	461	465	
	SUC. PRESS.	147	149	151	154	157	161	165	169	174	180	186	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve

-Subcooling tolerance is ± 1°F

-Superheat tolerance is ± 1°F

-The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.

-Boxed data point is the performance rated condition

-Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)E4M1RN24K W/ TXV INDOOR UNIT
(2.0 TON / ROTARY COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.6	8.7	8.6	8.5	8.3	8.1	7.8	7.6	7.4	7.2	7.0
		LIQ. PRESS.	197	197	197	197	198	199	200	201	202	204	206
		SUC. PRESS.	126	127	129	132	136	140	145	152	159	167	175
	65	SC	8.7	8.7	8.7	8.6	8.4	8.2	8.0	7.8	7.6	7.4	7.3
		LIQ. PRESS.	214	214	214	214	215	216	217	218	219	221	223
		SUC. PRESS.	128	129	131	133	137	141	147	153	160	168	176
	70	SC	8.9	9.0	8.9	8.8	8.6	8.5	8.3	8.1	8.0	7.9	7.8
		LIQ. PRESS.	232	232	232	233	233	234	235	236	238	239	241
		SUC. PRESS.	130	130	132	135	138	143	148	154	161	169	177
	75	SC	9.3	9.3	9.2	9.1	9.0	8.8	8.7	8.6	8.5	8.4	8.4
		LIQ. PRESS.	251	251	252	252	253	254	255	256	257	259	261
		SUC. PRESS.	131	132	134	136	140	144	149	155	162	170	179
	80	SC	9.7	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0	9.0	9.1
		LIQ. PRESS.	272	272	272	273	274	274	275	277	278	280	281
		SUC. PRESS.	133	133	135	138	141	145	150	156	163	171	180
	85	SC	10.1	10.1	10.1	10.0	9.9	9.8	9.7	9.7	9.7	9.7	9.9
		LIQ. PRESS.	294	294	294	295	295	296	297	298	300	301	303
		SUC. PRESS.	134	135	136	139	142	146	152	157	164	172	180
	90	SC	10.6	10.6	10.5	10.5	10.4	10.3	10.3	10.3	10.3	10.5	10.7
		LIQ. PRESS.	317	317	317	318	318	319	320	322	323	325	326
		SUC. PRESS.	136	136	138	140	144	148	153	159	165	173	181
	95	SC	11.0	11.0	11.0	10.9	10.9	8.4	10.9	10.9	11.0	11.2	11.5
		LIQ. PRESS.	341	341	342	342	343	364	345	346	347	349	351
		SUC. PRESS.	137	138	139	142	145	148	154	160	166	174	182
100	SC	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.5	11.7	11.9	12.3	
	LIQ. PRESS.	366	367	367	367	368	369	370	371	373	374	376	
	SUC. PRESS.	139	139	141	143	146	150	155	161	167	175	183	
105	SC	11.7	11.7	11.7	11.7	11.8	11.8	11.9	12.0	12.3	12.6	13.0	
	LIQ. PRESS.	393	393	394	394	395	396	397	398	399	401	403	
	SUC. PRESS.	140	140	142	144	147	151	156	162	168	176	184	
110	SC	11.9	12.0	12.0	12.0	12.1	12.1	12.3	12.5	12.8	13.2	13.7	
	LIQ. PRESS.	421	421	421	422	423	424	425	426	427	429	431	
	SUC. PRESS.	141	142	143	145	148	152	157	163	169	177	185	
115	SC	12.0	12.0	12.1	12.2	12.2	12.4	12.6	12.8	13.2	13.6	14.2	
	LIQ. PRESS.	450	450	450	451	452	453	454	455	456	458	460	
	SUC. PRESS.	143	143	144	146	149	153	158	164	170	177	186	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)E4M1SN30K W/ FIXED ORIFICE INDOOR UNIT
(2.5 TON / SCROLL COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	9.5	9.3	9.3	9.5	9.7	10.1	10.6	11.2	11.9	12.8	13.8
		LIQ. PRESS.	207	207	207	207	207	208	209	210	212	214	216
		SUC. PRESS.	119	119	119	120	121	123	125	127	130	133	136
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	9.1	9.0	9.1	9.2	9.5	9.9	10.5	11.1	11.9	12.8	13.9
		LIQ. PRESS.	225	224	224	225	225	226	227	229	230	233	235
		SUC. PRESS.	123	123	123	124	125	127	129	131	134	137	141
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	8.7	8.7	8.8	9.0	9.3	9.8	10.3	11.0	11.9	12.8	13.9
		LIQ. PRESS.	243	243	243	243	244	245	246	248	250	252	254
		SUC. PRESS.	126	126	127	128	129	131	133	135	138	142	146
	75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4
		SC	8.3	8.3	8.4	8.6	9.0	9.5	10.1	10.9	11.7	12.7	13.8
		LIQ. PRESS.	263	262	263	263	264	265	266	268	270	272	275
		SUC. PRESS.	129	129	130	131	133	134	137	139	143	146	150
	80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9
		SC	7.8	7.8	8.0	8.3	8.7	9.2	9.9	10.6	11.6	12.6	13.7
		LIQ. PRESS.	283	283	283	284	285	286	287	289	291	294	296
		SUC. PRESS.	132	132	133	134	136	138	141	143	147	150	154
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	7.2	7.3	7.5	7.8	8.3	8.8	9.5	10.4	11.3	12.4	13.6	
	LIQ. PRESS.	304	305	305	306	307	308	309	311	313	316	318	
	SUC. PRESS.	135	135	136	138	139	141	144	147	150	154	158	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	6.6	6.7	7.0	7.3	7.8	8.4	9.2	10.0	11.0	12.1	13.4	
	LIQ. PRESS.	327	327	327	328	329	331	332	334	336	339	342	
	SUC. PRESS.	137	138	139	141	142	145	147	151	154	158	162	
95	SH	5.0	5.0	5.0	5.8	7.3	2.7	11.2	13.7	16.4	19.5	22.9	
	SC	5.9	6.1	6.4	6.8	7.3	12.0	8.7	9.6	10.7	11.8	13.1	
	LIQ. PRESS.	350	350	351	352	353	364	356	358	360	363	366	
	SUC. PRESS.	140	141	142	143	145	142	151	154	157	162	166	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	5.2	5.4	5.7	6.2	6.7	7.4	8.2	9.2	10.2	11.4	12.7	
	LIQ. PRESS.	374	375	375	376	378	379	381	383	386	388	391	
	SUC. PRESS.	142	143	144	146	148	151	154	157	161	165	170	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	4.4	4.7	5.0	5.5	6.1	6.8	7.7	8.7	9.8	11.0	12.4	
	LIQ. PRESS.	400	400	401	402	403	405	407	409	412	414	417	
	SUC. PRESS.	144	145	147	148	151	153	156	160	164	168	173	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	3.6	3.9	4.2	4.8	5.4	6.2	7.1	8.1	9.2	10.5	11.9	
	LIQ. PRESS.	426	426	427	428	430	432	434	436	438	441	445	
	SUC. PRESS.	146	147	149	151	153	156	159	163	167	171	176	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	2.7	3.0	3.4	4.0	4.7	5.5	6.4	7.5	8.7	10.0	11.4	
	LIQ. PRESS.	453	454	455	456	457	459	461	464	466	469	473	
	SUC. PRESS.	148	149	151	153	155	158	162	165	170	174	179	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve
 -Subcooling tolerance is ± 1°F
 -Superheat tolerance is ± 1°F
 -The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)E4M1SN30K W/ TXV INDOOR UNIT
(2.5 TON / SCROLL COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.3	8.7	9.1	9.6	10.2	11.0	12.0	13.3	14.9	16.9	19.3
		LIQ. PRESS.	210	209	209	210	211	212	214	217	220	223	227
		SUC. PRESS.	119	120	122	125	128	132	137	143	149	156	164
	65	SC	9.8	10.1	10.3	10.7	11.1	11.7	12.6	13.7	15.1	16.9	19.1
		LIQ. PRESS.	227	227	227	227	228	230	232	234	237	241	245
		SUC. PRESS.	121	122	124	127	130	134	139	145	151	158	166
	70	SC	10.9	11.0	11.1	11.3	11.6	12.1	12.8	13.7	14.9	16.5	18.5
		LIQ. PRESS.	246	245	246	246	247	249	251	253	256	260	264
		SUC. PRESS.	123	124	126	128	132	136	141	146	152	159	167
	75	SC	11.6	11.6	11.6	11.6	11.8	12.1	12.7	13.4	14.5	16.0	17.8
		LIQ. PRESS.	266	266	266	266	267	269	271	274	277	280	284
		SUC. PRESS.	125	126	127	130	133	137	142	147	154	161	168
	80	SC	11.9	11.8	11.7	11.7	11.8	12.0	12.4	13.0	14.0	15.3	16.9
		LIQ. PRESS.	287	287	287	288	289	291	293	295	298	302	306
		SUC. PRESS.	126	127	129	132	135	139	143	149	155	162	170
	85	SC	12.0	11.9	11.7	11.6	11.6	11.7	12.0	12.5	13.4	14.5	16.1
		LIQ. PRESS.	310	310	310	311	312	314	316	318	321	325	329
		SUC. PRESS.	128	129	131	133	136	140	145	150	156	163	171
	90	SC	12.0	11.8	11.6	11.5	11.4	11.4	11.6	12.1	12.8	13.9	15.3
		LIQ. PRESS.	334	334	334	335	336	338	340	343	346	349	353
		SUC. PRESS.	130	131	132	135	138	142	146	151	158	164	172
	95	SC	12.0	11.8	11.6	11.4	11.2	11.7	11.4	11.7	12.4	13.3	14.7
		LIQ. PRESS.	360	359	360	361	362	362	366	368	371	375	379
		SUC. PRESS.	131	132	134	136	139	142	147	153	159	165	173
100	SC	12.0	11.8	11.6	11.4	11.2	11.2	11.3	11.6	12.2	13.1	14.4	
	LIQ. PRESS.	386	386	387	387	389	390	393	395	398	402	406	
	SUC. PRESS.	133	134	135	137	140	144	149	154	160	166	174	
105	SC	12.3	12.1	11.9	11.6	11.5	11.4	11.5	11.8	12.3	13.2	14.4	
	LIQ. PRESS.	415	414	415	416	417	419	421	424	427	430	435	
	SUC. PRESS.	134	135	136	139	142	145	150	155	161	167	175	
110	SC	12.7	12.6	12.4	12.2	12.0	12.0	12.1	12.4	12.9	13.7	14.9	
	LIQ. PRESS.	444	444	444	445	446	448	450	453	456	460	464	
	SUC. PRESS.	135	136	138	140	143	146	151	156	162	168	176	
115	SC	13.6	13.5	13.3	13.2	13.1	13.0	13.2	13.5	14.0	14.8	16.0	
	LIQ. PRESS.	475	475	475	476	477	479	481	484	487	491	495	
	SUC. PRESS.	137	137	139	141	144	147	152	157	163	169	176	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)E4M1RN30K W/ FIXED ORIFICE INDOOR UNIT
(2.5 TON / ROTARY COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	9.5	9.3	9.3	9.5	9.7	10.1	10.6	11.2	11.9	12.8	13.8
		LIQ. PRESS.	207	207	207	207	207	208	209	210	212	214	216
		SUC. PRESS.	119	119	119	120	121	123	125	127	130	133	136
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	9.1	9.0	9.1	9.2	9.5	9.9	10.5	11.1	11.9	12.8	13.9
		LIQ. PRESS.	225	224	224	225	225	226	227	229	230	233	235
		SUC. PRESS.	123	123	123	124	125	127	129	131	134	137	141
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	8.7	8.7	8.8	9.0	9.3	9.8	10.3	11.0	11.9	12.8	13.9
		LIQ. PRESS.	243	243	243	243	244	245	246	248	250	252	254
		SUC. PRESS.	126	126	127	128	129	131	133	135	138	142	146
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	8.3	8.3	8.4	8.6	9.0	9.5	10.1	10.9	11.7	12.7	13.8	
	LIQ. PRESS.	263	262	263	263	264	265	266	268	270	272	275	
	SUC. PRESS.	129	129	130	131	133	134	137	139	143	146	150	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	7.8	7.8	8.0	8.3	8.7	9.2	9.9	10.6	11.6	12.6	13.7	
	LIQ. PRESS.	283	283	283	284	285	286	287	289	291	294	296	
	SUC. PRESS.	132	132	133	134	136	138	141	143	147	150	154	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	7.2	7.3	7.5	7.8	8.3	8.8	9.5	10.4	11.3	12.4	13.6	
	LIQ. PRESS.	304	305	305	306	307	308	309	311	313	316	318	
	SUC. PRESS.	135	135	136	138	139	141	144	147	150	154	158	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	6.6	6.7	7.0	7.3	7.8	8.4	9.2	10.0	11.0	12.1	13.4	
	LIQ. PRESS.	327	327	327	328	329	331	332	334	336	339	342	
	SUC. PRESS.	137	138	139	141	142	145	147	151	154	158	162	
95	SH	5.0	5.0	5.0	5.8	7.3	10.6	11.2	13.7	16.4	19.5	22.9	
	SC	5.9	6.1	6.4	6.8	7.3	10.2	8.7	9.6	10.7	11.8	13.1	
	LIQ. PRESS.	350	350	351	352	353	363	356	358	360	363	366	
	SUC. PRESS.	140	141	142	143	145	143	151	154	157	162	166	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	5.2	5.4	5.7	6.2	6.7	7.4	8.2	9.2	10.2	11.4	12.7	
	LIQ. PRESS.	374	375	375	376	378	379	381	383	386	388	391	
	SUC. PRESS.	142	143	144	146	148	151	154	157	161	165	170	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	4.4	4.7	5.0	5.5	6.1	6.8	7.7	8.7	9.8	11.0	12.4	
	LIQ. PRESS.	400	400	401	402	403	405	407	409	412	414	417	
	SUC. PRESS.	144	145	147	148	151	153	156	160	164	168	173	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	3.6	3.9	4.2	4.8	5.4	6.2	7.1	8.1	9.2	10.5	11.9	
	LIQ. PRESS.	426	426	427	428	430	432	434	436	438	441	445	
	SUC. PRESS.	146	147	149	151	153	156	159	163	167	171	176	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	2.7	3.0	3.4	4.0	4.7	5.5	6.4	7.5	8.7	10.0	11.4	
	LIQ. PRESS.	453	454	455	456	457	459	461	464	466	469	473	
	SUC. PRESS.	148	149	151	153	155	158	162	165	170	174	179	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve
 -Subcooling tolerance is ± 1°F
 -Superheat tolerance is ± 1°F
 -The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)E4M1RN30K W/ TXV INDOOR UNIT
(2.5 TON / ROTARY COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.3	8.7	9.1	9.6	10.2	11.0	12.0	13.3	14.9	16.9	19.3
		LIQ. PRESS.	210	209	209	210	211	212	214	217	220	223	227
		SUC. PRESS.	119	120	122	125	128	132	137	143	149	156	164
	65	SC	9.8	10.1	10.3	10.7	11.1	11.7	12.6	13.7	15.1	16.9	19.1
		LIQ. PRESS.	227	227	227	227	228	230	232	234	237	241	245
		SUC. PRESS.	121	122	124	127	130	134	139	145	151	158	166
	70	SC	10.9	11.0	11.1	11.3	11.6	12.1	12.8	13.7	14.9	16.5	18.5
		LIQ. PRESS.	246	245	246	246	247	249	251	253	256	260	264
		SUC. PRESS.	123	124	126	128	132	136	141	146	152	159	167
	75	SC	11.6	11.6	11.6	11.6	11.8	12.1	12.7	13.4	14.5	16.0	17.8
		LIQ. PRESS.	266	266	266	266	267	269	271	274	277	280	284
		SUC. PRESS.	125	126	127	130	133	137	142	147	154	161	168
	80	SC	11.9	11.8	11.7	11.7	11.8	12.0	12.4	13.0	14.0	15.3	16.9
		LIQ. PRESS.	287	287	287	288	289	291	293	295	298	302	306
		SUC. PRESS.	126	127	129	132	135	139	143	149	155	162	170
	85	SC	12.0	11.9	11.7	11.6	11.6	11.7	12.0	12.5	13.4	14.5	16.1
		LIQ. PRESS.	310	310	310	311	312	314	316	318	321	325	329
		SUC. PRESS.	128	129	131	133	136	140	145	150	156	163	171
	90	SC	12.0	11.8	11.6	11.5	11.4	11.4	11.6	12.1	12.8	13.9	15.3
		LIQ. PRESS.	334	334	334	335	336	338	340	343	346	349	353
		SUC. PRESS.	130	131	132	135	138	142	146	151	158	164	172
	95	SC	12.0	11.8	11.6	11.4	11.2	6.4	11.4	11.7	12.4	13.3	14.7
		LIQ. PRESS.	360	359	360	361	362	356	366	368	371	375	379
		SUC. PRESS.	131	132	134	136	139	147	147	153	159	165	173
100	SC	12.0	11.8	11.6	11.4	11.2	11.2	11.3	11.6	12.2	13.1	14.4	
	LIQ. PRESS.	386	386	387	387	389	390	393	395	398	402	406	
	SUC. PRESS.	133	134	135	137	140	144	149	154	160	166	174	
105	SC	12.3	12.1	11.9	11.6	11.5	11.4	11.5	11.8	12.3	13.2	14.4	
	LIQ. PRESS.	415	414	415	416	417	419	421	424	427	430	435	
	SUC. PRESS.	134	135	136	139	142	145	150	155	161	167	175	
110	SC	12.7	12.6	12.4	12.2	12.0	12.0	12.1	12.4	12.9	13.7	14.9	
	LIQ. PRESS.	444	444	444	445	446	448	450	453	456	460	464	
	SUC. PRESS.	135	136	138	140	143	146	151	156	162	168	176	
115	SC	13.6	13.5	13.3	13.2	13.1	13.0	13.2	13.5	14.0	14.8	16.0	
	LIQ. PRESS.	475	475	475	476	477	479	481	484	487	491	495	
	SUC. PRESS.	137	137	139	141	144	147	152	157	163	169	176	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)E4M1SN36K W/ FIXED ORIFICE INDOOR UNIT
(3.0 TON / SCROLL COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	9.5	9.3	9.3	9.5	9.7	10.1	10.6	11.2	11.9	12.8	13.8
		LIQ. PRESS.	207	207	207	207	207	208	209	210	212	214	216
		SUC. PRESS.	119	119	119	120	121	123	125	127	130	133	136
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	9.1	9.0	9.1	9.2	9.5	9.9	10.5	11.1	11.9	12.8	13.9
		LIQ. PRESS.	225	224	224	225	225	226	227	229	230	233	235
		SUC. PRESS.	123	123	123	124	125	127	129	131	134	137	141
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	8.7	8.7	8.8	9.0	9.3	9.8	10.3	11.0	11.9	12.8	13.9
		LIQ. PRESS.	243	243	243	243	244	245	246	248	250	252	254
		SUC. PRESS.	126	126	127	128	129	131	133	135	138	142	146
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	8.3	8.3	8.4	8.6	9.0	9.5	10.1	10.9	11.7	12.7	13.8	
	LIQ. PRESS.	263	262	263	263	264	265	266	268	270	272	275	
	SUC. PRESS.	129	129	130	131	133	134	137	139	143	146	150	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	7.8	7.8	8.0	8.3	8.7	9.2	9.9	10.6	11.6	12.6	13.7	
	LIQ. PRESS.	283	283	283	284	285	286	287	289	291	294	296	
	SUC. PRESS.	132	132	133	134	136	138	141	143	147	150	154	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	7.2	7.3	7.5	7.8	8.3	8.8	9.5	10.4	11.3	12.4	13.6	
	LIQ. PRESS.	304	305	305	306	307	308	309	311	313	316	318	
	SUC. PRESS.	135	135	136	138	139	141	144	147	150	154	158	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	6.6	6.7	7.0	7.3	7.8	8.4	9.2	10.0	11.0	12.1	13.4	
	LIQ. PRESS.	327	327	327	328	329	331	332	334	336	339	342	
	SUC. PRESS.	137	138	139	141	142	145	147	151	154	158	162	
95	SH	5.0	5.0	5.0	5.8	7.3	16.7	11.2	13.7	16.4	19.5	22.9	
	SC	5.9	6.1	6.4	6.8	7.3	7.1	8.7	9.6	10.7	11.8	13.1	
	LIQ. PRESS.	350	350	351	352	353	345	356	358	360	363	366	
	SUC. PRESS.	140	141	142	143	145	147	151	154	157	162	166	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	5.2	5.4	5.7	6.2	6.7	7.4	8.2	9.2	10.2	11.4	12.7	
	LIQ. PRESS.	374	375	375	376	378	379	381	383	386	388	391	
	SUC. PRESS.	142	143	144	146	148	151	154	157	161	165	170	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	4.4	4.7	5.0	5.5	6.1	6.8	7.7	8.7	9.8	11.0	12.4	
	LIQ. PRESS.	400	400	401	402	403	405	407	409	412	414	417	
	SUC. PRESS.	144	145	147	148	151	153	156	160	164	168	173	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	3.6	3.9	4.2	4.8	5.4	6.2	7.1	8.1	9.2	10.5	11.9	
	LIQ. PRESS.	426	426	427	428	430	432	434	436	438	441	445	
	SUC. PRESS.	146	147	149	151	153	156	159	163	167	171	176	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	2.7	3.0	3.4	4.0	4.7	5.5	6.4	7.5	8.7	10.0	11.4	
	LIQ. PRESS.	453	454	455	456	457	459	461	464	466	469	473	
	SUC. PRESS.	148	149	151	153	155	158	162	165	170	174	179	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve

-Subcooling tolerance is ± 1°F

-Superheat tolerance is ± 1°F

-The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.

-Boxed data point is the performance rated condition

-Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)E4M1SN36K W/ TXV INDOOR UNIT
(3.0 TON / SCROLL COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.3	8.7	9.1	9.6	10.2	11.0	12.0	13.3	14.9	16.9	19.3
		LIQ. PRESS.	210	209	209	210	211	212	214	217	220	223	227
		SUC. PRESS.	119	120	122	125	128	132	137	143	149	156	164
	65	SC	9.8	10.1	10.3	10.7	11.1	11.7	12.6	13.7	15.1	16.9	19.1
		LIQ. PRESS.	227	227	227	227	228	230	232	234	237	241	245
		SUC. PRESS.	121	122	124	127	130	134	139	145	151	158	166
	70	SC	10.9	11.0	11.1	11.3	11.6	12.1	12.8	13.7	14.9	16.5	18.5
		LIQ. PRESS.	246	245	246	246	247	249	251	253	256	260	264
		SUC. PRESS.	123	124	126	128	132	136	141	146	152	159	167
	75	SC	11.6	11.6	11.6	11.6	11.8	12.1	12.7	13.4	14.5	16.0	17.8
		LIQ. PRESS.	266	266	266	266	267	269	271	274	277	280	284
		SUC. PRESS.	125	126	127	130	133	137	142	147	154	161	168
	80	SC	11.9	11.8	11.7	11.7	11.8	12.0	12.4	13.0	14.0	15.3	16.9
		LIQ. PRESS.	287	287	287	288	289	291	293	295	298	302	306
		SUC. PRESS.	126	127	129	132	135	139	143	149	155	162	170
	85	SC	12.0	11.9	11.7	11.6	11.6	11.7	12.0	12.5	13.4	14.5	16.1
		LIQ. PRESS.	310	310	310	311	312	314	316	318	321	325	329
		SUC. PRESS.	128	129	131	133	136	140	145	150	156	163	171
	90	SC	12.0	11.8	11.6	11.5	11.4	11.4	11.6	12.1	12.8	13.9	15.3
		LIQ. PRESS.	334	334	334	335	336	338	340	343	346	349	353
		SUC. PRESS.	130	131	132	135	138	142	146	151	158	164	172
95	SC	12.0	11.8	11.6	11.4	11.2	9.7	11.4	11.7	12.4	13.3	14.7	
	LIQ. PRESS.	360	359	360	361	362	361	366	368	371	375	379	
	SUC. PRESS.	131	132	134	136	139	143	147	153	159	165	173	
100	SC	12.0	11.8	11.6	11.4	11.2	11.2	11.3	11.6	12.2	13.1	14.4	
	LIQ. PRESS.	386	386	387	387	389	390	393	395	398	402	406	
	SUC. PRESS.	133	134	135	137	140	144	149	154	160	166	174	
105	SC	12.3	12.1	11.9	11.6	11.5	11.4	11.5	11.8	12.3	13.2	14.4	
	LIQ. PRESS.	415	414	415	416	417	419	421	424	427	430	435	
	SUC. PRESS.	134	135	136	139	142	145	150	155	161	167	175	
110	SC	12.7	12.6	12.4	12.2	12.0	12.0	12.1	12.4	12.9	13.7	14.9	
	LIQ. PRESS.	444	444	444	445	446	448	450	453	456	460	464	
	SUC. PRESS.	135	136	138	140	143	146	151	156	162	168	176	
115	SC	13.6	13.5	13.3	13.2	13.1	13.0	13.2	13.5	14.0	14.8	16.0	
	LIQ. PRESS.	475	475	475	476	477	479	481	484	487	491	495	
	SUC. PRESS.	137	137	139	141	144	147	152	157	163	169	176	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)E4M1RN36K W/ FIXED ORIFICE INDOOR UNIT
(3.0 TON / ROTARY COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	9.5	9.3	9.3	9.5	9.7	10.1	10.6	11.2	11.9	12.8	13.8
		LIQ. PRESS.	207	207	207	207	207	208	209	210	212	214	216
		SUC. PRESS.	119	119	119	120	121	123	125	127	130	133	136
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	9.1	9.0	9.1	9.2	9.5	9.9	10.5	11.1	11.9	12.8	13.9
		LIQ. PRESS.	225	224	224	225	225	226	227	229	230	233	235
		SUC. PRESS.	123	123	123	124	125	127	129	131	134	137	141
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	8.7	8.7	8.8	9.0	9.3	9.8	10.3	11.0	11.9	12.8	13.9
		LIQ. PRESS.	243	243	243	243	244	245	246	248	250	252	254
		SUC. PRESS.	126	126	127	128	129	131	133	135	138	142	146
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	8.3	8.3	8.4	8.6	9.0	9.5	10.1	10.9	11.7	12.7	13.8	
	LIQ. PRESS.	263	262	263	263	264	265	266	268	270	272	275	
	SUC. PRESS.	129	129	130	131	133	134	137	139	143	146	150	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	7.8	7.8	8.0	8.3	8.7	9.2	9.9	10.6	11.6	12.6	13.7	
	LIQ. PRESS.	283	283	283	284	285	286	287	289	291	294	296	
	SUC. PRESS.	132	132	133	134	136	138	141	143	147	150	154	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	7.2	7.3	7.5	7.8	8.3	8.8	9.5	10.4	11.3	12.4	13.6	
	LIQ. PRESS.	304	305	305	306	307	308	309	311	313	316	318	
	SUC. PRESS.	135	135	136	138	139	141	144	147	150	154	158	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	6.6	6.7	7.0	7.3	7.8	8.4	9.2	10.0	11.0	12.1	13.4	
	LIQ. PRESS.	327	327	327	328	329	331	332	334	336	339	342	
	SUC. PRESS.	137	138	139	141	142	145	147	151	154	158	162	
95	SH	5.0	5.0	5.0	5.8	7.3	13.2	11.2	13.7	16.4	19.5	22.9	
	SC	5.9	6.1	6.4	6.8	7.3	10.1	8.7	9.6	10.7	11.8	13.1	
	LIQ. PRESS.	350	350	351	352	353	350	356	358	360	363	366	
	SUC. PRESS.	140	141	142	143	145	147	151	154	157	162	166	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	5.2	5.4	5.7	6.2	6.7	7.4	8.2	9.2	10.2	11.4	12.7	
	LIQ. PRESS.	374	375	375	376	378	379	381	383	386	388	391	
	SUC. PRESS.	142	143	144	146	148	151	154	157	161	165	170	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	4.4	4.7	5.0	5.5	6.1	6.8	7.7	8.7	9.8	11.0	12.4	
	LIQ. PRESS.	400	400	401	402	403	405	407	409	412	414	417	
	SUC. PRESS.	144	145	147	148	151	153	156	160	164	168	173	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	3.6	3.9	4.2	4.8	5.4	6.2	7.1	8.1	9.2	10.5	11.9	
	LIQ. PRESS.	426	426	427	428	430	432	434	436	438	441	445	
	SUC. PRESS.	146	147	149	151	153	156	159	163	167	171	176	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	2.7	3.0	3.4	4.0	4.7	5.5	6.4	7.5	8.7	10.0	11.4	
	LIQ. PRESS.	453	454	455	456	457	459	461	464	466	469	473	
	SUC. PRESS.	148	149	151	153	155	158	162	165	170	174	179	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve
 -Subcooling tolerance is ± 1°F
 -Superheat tolerance is ± 1°F
 -The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)E4M1RN36K W/ TXV INDOOR UNIT
(3.0 TON / ROTARY COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.3	8.7	9.1	9.6	10.2	11.0	12.0	13.3	14.9	16.9	19.3
		LIQ. PRESS.	210	209	209	210	211	212	214	217	220	223	227
		SUC. PRESS.	119	120	122	125	128	132	137	143	149	156	164
	65	SC	9.8	10.1	10.3	10.7	11.1	11.7	12.6	13.7	15.1	16.9	19.1
		LIQ. PRESS.	227	227	227	227	228	230	232	234	237	241	245
		SUC. PRESS.	121	122	124	127	130	134	139	145	151	158	166
	70	SC	10.9	11.0	11.1	11.3	11.6	12.1	12.8	13.7	14.9	16.5	18.5
		LIQ. PRESS.	246	245	246	246	247	249	251	253	256	260	264
		SUC. PRESS.	123	124	126	128	132	136	141	146	152	159	167
	75	SC	11.6	11.6	11.6	11.6	11.8	12.1	12.7	13.4	14.5	16.0	17.8
		LIQ. PRESS.	266	266	266	266	267	269	271	274	277	280	284
		SUC. PRESS.	125	126	127	130	133	137	142	147	154	161	168
	80	SC	11.9	11.8	11.7	11.7	11.8	12.0	12.4	13.0	14.0	15.3	16.9
		LIQ. PRESS.	287	287	287	288	289	291	293	295	298	302	306
		SUC. PRESS.	126	127	129	132	135	139	143	149	155	162	170
	85	SC	12.0	11.9	11.7	11.6	11.6	11.7	12.0	12.5	13.4	14.5	16.1
		LIQ. PRESS.	310	310	310	311	312	314	316	318	321	325	329
		SUC. PRESS.	128	129	131	133	136	140	145	150	156	163	171
90	SC	12.0	11.8	11.6	11.5	11.4	11.4	11.6	12.1	12.8	13.9	15.3	
	LIQ. PRESS.	334	334	334	335	336	338	340	343	346	349	353	
	SUC. PRESS.	130	131	132	135	138	142	146	151	158	164	172	
95	SC	12.0	11.8	11.6	11.4	11.2	15.0	11.4	11.7	12.4	13.3	14.7	
	LIQ. PRESS.	360	359	360	361	362	365	366	368	371	375	379	
	SUC. PRESS.	131	132	134	136	139	146	147	153	159	165	173	
100	SC	12.0	11.8	11.6	11.4	11.2	11.2	11.3	11.6	12.2	13.1	14.4	
	LIQ. PRESS.	386	386	387	387	389	390	393	395	398	402	406	
	SUC. PRESS.	133	134	135	137	140	144	149	154	160	166	174	
105	SC	12.3	12.1	11.9	11.6	11.5	11.4	11.5	11.8	12.3	13.2	14.4	
	LIQ. PRESS.	415	414	415	416	417	419	421	424	427	430	435	
	SUC. PRESS.	134	135	136	139	142	145	150	155	161	167	175	
110	SC	12.7	12.6	12.4	12.2	12.0	12.0	12.1	12.4	12.9	13.7	14.9	
	LIQ. PRESS.	444	444	444	445	446	448	450	453	456	460	464	
	SUC. PRESS.	135	136	138	140	143	146	151	156	162	168	176	
115	SC	13.6	13.5	13.3	13.2	13.1	13.0	13.2	13.5	14.0	14.8	16.0	
	LIQ. PRESS.	475	475	475	476	477	479	481	484	487	491	495	
	SUC. PRESS.	137	137	139	141	144	147	152	157	163	169	176	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)E4M1SN42K W/ FIXED ORIFICE INDOOR UNIT
(3.5 TON / SCROLL COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	9.5	9.3	9.3	9.5	9.7	10.1	10.6	11.2	11.9	12.8	13.8
		LIQ. PRESS.	207	207	207	207	207	208	209	210	212	214	216
		SUC. PRESS.	119	119	119	120	121	123	125	127	130	133	136
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	9.1	9.0	9.1	9.2	9.5	9.9	10.5	11.1	11.9	12.8	13.9
		LIQ. PRESS.	225	224	224	225	225	226	227	229	230	233	235
		SUC. PRESS.	123	123	123	124	125	127	129	131	134	137	141
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	8.7	8.7	8.8	9.0	9.3	9.8	10.3	11.0	11.9	12.8	13.9
		LIQ. PRESS.	243	243	243	243	244	245	246	248	250	252	254
		SUC. PRESS.	126	126	127	128	129	131	133	135	138	142	146
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	8.3	8.3	8.4	8.6	9.0	9.5	10.1	10.9	11.7	12.7	13.8	
	LIQ. PRESS.	263	262	263	263	264	265	266	268	270	272	275	
	SUC. PRESS.	129	129	130	131	133	134	137	139	143	146	150	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	7.8	7.8	8.0	8.3	8.7	9.2	9.9	10.6	11.6	12.6	13.7	
	LIQ. PRESS.	283	283	283	284	285	286	287	289	291	294	296	
	SUC. PRESS.	132	132	133	134	136	138	141	143	147	150	154	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	7.2	7.3	7.5	7.8	8.3	8.8	9.5	10.4	11.3	12.4	13.6	
	LIQ. PRESS.	304	305	305	306	307	308	309	311	313	316	318	
	SUC. PRESS.	135	135	136	138	139	141	144	147	150	154	158	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	6.6	6.7	7.0	7.3	7.8	8.4	9.2	10.0	11.0	12.1	13.4	
	LIQ. PRESS.	327	327	327	328	329	331	332	334	336	339	342	
	SUC. PRESS.	137	138	139	141	142	145	147	151	154	158	162	
95	SH	5.0	5.0	5.0	5.8	7.3	6.3	11.2	13.7	16.4	19.5	22.9	
	SC	5.9	6.1	6.4	6.8	7.3	5.1	8.7	9.6	10.7	11.8	13.1	
	LIQ. PRESS.	350	350	351	352	353	348	356	358	360	363	366	
	SUC. PRESS.	140	141	142	143	145	141	151	154	157	162	166	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	5.2	5.4	5.7	6.2	6.7	7.4	8.2	9.2	10.2	11.4	12.7	
	LIQ. PRESS.	374	375	375	376	378	379	381	383	386	388	391	
	SUC. PRESS.	142	143	144	146	148	151	154	157	161	165	170	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	4.4	4.7	5.0	5.5	6.1	6.8	7.7	8.7	9.8	11.0	12.4	
	LIQ. PRESS.	400	400	401	402	403	405	407	409	412	414	417	
	SUC. PRESS.	144	145	147	148	151	153	156	160	164	168	173	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	3.6	3.9	4.2	4.8	5.4	6.2	7.1	8.1	9.2	10.5	11.9	
	LIQ. PRESS.	426	426	427	428	430	432	434	436	438	441	445	
	SUC. PRESS.	146	147	149	151	153	156	159	163	167	171	176	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	2.7	3.0	3.4	4.0	4.7	5.5	6.4	7.5	8.7	10.0	11.4	
	LIQ. PRESS.	453	454	455	456	457	459	461	464	466	469	473	
	SUC. PRESS.	148	149	151	153	155	158	162	165	170	174	179	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve

-Subcooling tolerance is ± 1°F

-Superheat tolerance is ± 1°F

-The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.

-Boxed data point is the performance rated condition

-Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)E4M1SN42K W/ TXV INDOOR UNIT
(3.5 TON / SCROLL COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.3	8.7	9.1	9.6	10.2	11.0	12.0	13.3	14.9	16.9	19.3
		LIQ. PRESS.	210	209	209	210	211	212	214	217	220	223	227
		SUC. PRESS.	119	120	122	125	128	132	137	143	149	156	164
	65	SC	9.8	10.1	10.3	10.7	11.1	11.7	12.6	13.7	15.1	16.9	19.1
		LIQ. PRESS.	227	227	227	227	228	230	232	234	237	241	245
		SUC. PRESS.	121	122	124	127	130	134	139	145	151	158	166
	70	SC	10.9	11.0	11.1	11.3	11.6	12.1	12.8	13.7	14.9	16.5	18.5
		LIQ. PRESS.	246	245	246	246	247	249	251	253	256	260	264
		SUC. PRESS.	123	124	126	128	132	136	141	146	152	159	167
	75	SC	11.6	11.6	11.6	11.6	11.8	12.1	12.7	13.4	14.5	16.0	17.8
		LIQ. PRESS.	266	266	266	266	267	269	271	274	277	280	284
		SUC. PRESS.	125	126	127	130	133	137	142	147	154	161	168
	80	SC	11.9	11.8	11.7	11.7	11.8	12.0	12.4	13.0	14.0	15.3	16.9
		LIQ. PRESS.	287	287	287	288	289	291	293	295	298	302	306
		SUC. PRESS.	126	127	129	132	135	139	143	149	155	162	170
	85	SC	12.0	11.9	11.7	11.6	11.6	11.7	12.0	12.5	13.4	14.5	16.1
		LIQ. PRESS.	310	310	310	311	312	314	316	318	321	325	329
		SUC. PRESS.	128	129	131	133	136	140	145	150	156	163	171
90	SC	12.0	11.8	11.6	11.5	11.4	11.4	11.6	12.1	12.8	13.9	15.3	
	LIQ. PRESS.	334	334	334	335	336	338	340	343	346	349	353	
	SUC. PRESS.	130	131	132	135	138	142	146	151	158	164	172	
95	SC	12.0	11.8	11.6	11.4	11.2	10.2	11.4	11.7	12.4	13.3	14.7	
	LIQ. PRESS.	360	359	360	361	362	366	366	368	371	375	379	
	SUC. PRESS.	131	132	134	136	139	147	147	153	159	165	173	
100	SC	12.0	11.8	11.6	11.4	11.2	11.2	11.3	11.6	12.2	13.1	14.4	
	LIQ. PRESS.	386	386	387	387	389	390	393	395	398	402	406	
	SUC. PRESS.	133	134	135	137	140	144	149	154	160	166	174	
105	SC	12.3	12.1	11.9	11.6	11.5	11.4	11.5	11.8	12.3	13.2	14.4	
	LIQ. PRESS.	415	414	415	416	417	419	421	424	427	430	435	
	SUC. PRESS.	134	135	136	139	142	145	150	155	161	167	175	
110	SC	12.7	12.6	12.4	12.2	12.0	12.0	12.1	12.4	12.9	13.7	14.9	
	LIQ. PRESS.	444	444	444	445	446	448	450	453	456	460	464	
	SUC. PRESS.	135	136	138	140	143	146	151	156	162	168	176	
115	SC	13.6	13.5	13.3	13.2	13.1	13.0	13.2	13.5	14.0	14.8	16.0	
	LIQ. PRESS.	475	475	475	476	477	479	481	484	487	491	495	
	SUC. PRESS.	137	137	139	141	144	147	152	157	163	169	176	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)E4M1SN48K W/ FIXED ORIFICE INDOOR UNIT
(4.0 TON / SCROLL COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	8.2	8.6	9.0	9.4	9.8	10.2	10.6	11.0	11.4	11.8	12.2
		LIQ. PRESS.	218	218	219	220	220	221	222	223	223	224	225
		SUC. PRESS.	109	110	112	113	115	116	118	120	121	123	125
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	7.4	7.8	8.2	8.6	9.0	9.4	9.8	10.2	10.6	11.0	11.4
		LIQ. PRESS.	236	237	237	238	239	240	241	241	242	243	244
		SUC. PRESS.	112	113	114	116	118	119	121	123	125	127	129
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	6.6	7.0	7.4	7.8	8.2	8.6	9.0	9.4	9.8	10.1	10.5
		LIQ. PRESS.	255	256	257	258	259	259	260	261	262	263	264
		SUC. PRESS.	114	115	117	119	121	123	125	127	129	131	133
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	5.9	6.3	6.7	7.1	7.4	7.8	8.2	8.6	9.0	9.4	9.8	
	LIQ. PRESS.	275	276	277	278	279	280	281	282	283	285	286	
	SUC. PRESS.	116	118	120	122	124	126	128	130	132	135	137	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	5.2	5.6	6.0	6.4	6.7	7.1	7.5	7.9	8.3	8.6	9.0	
	LIQ. PRESS.	296	297	298	299	301	302	303	304	306	307	308	
	SUC. PRESS.	118	120	122	124	126	129	131	133	136	138	141	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	4.6	4.9	5.3	5.7	6.1	6.4	6.8	7.2	7.6	7.9	8.3	
	LIQ. PRESS.	318	319	321	322	323	325	326	327	329	330	331	
	SUC. PRESS.	120	122	125	127	129	131	134	136	139	142	145	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	4.0	4.3	4.7	5.1	5.4	5.8	6.2	6.5	6.9	7.3	7.7	
	LIQ. PRESS.	341	343	344	345	347	348	350	351	353	354	356	
	SUC. PRESS.	122	125	127	129	132	134	137	140	142	145	148	
95	SH	5.0	5.0	5.0	5.8	7.3	3.8	11.2	13.7	16.4	19.5	22.9	
	SC	3.4	3.7	4.1	4.5	4.8	7.5	5.6	5.9	6.3	6.7	7.0	
	LIQ. PRESS.	365	367	368	370	371	388	375	376	378	379	381	
	SUC. PRESS.	124	127	129	132	134	146	140	143	146	149	152	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	2.8	3.2	3.6	3.9	4.3	4.6	5.0	5.4	5.7	6.1	6.4	
	LIQ. PRESS.	390	392	394	395	397	399	400	402	404	405	407	
	SUC. PRESS.	126	129	131	134	137	139	142	145	149	152	155	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	2.3	2.7	3.0	3.4	3.8	4.1	4.5	4.8	5.2	5.5	5.9	
	LIQ. PRESS.	416	418	420	422	423	425	427	429	431	433	434	
	SUC. PRESS.	128	130	133	136	139	142	145	148	152	155	158	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	1.9	2.2	2.6	2.9	3.3	3.6	4.0	4.3	4.7	5.0	5.4	
	LIQ. PRESS.	443	445	447	449	451	453	455	457	459	461	463	
	SUC. PRESS.	129	132	135	138	141	144	148	151	154	158	162	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	1.4	1.8	2.1	2.5	2.8	3.2	3.5	3.9	4.2	4.5	4.9	
	LIQ. PRESS.	471	473	476	478	480	482	484	486	488	490	492	
	SUC. PRESS.	131	134	137	140	143	147	150	154	157	161	165	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve
 -Subcooling tolerance is ± 1°F
 -Superheat tolerance is ± 1°F
 -The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)(B,Q)E4M1SN48K W/ TXV INDOOR UNIT
(4.0 TON / SCROLL COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	5.6	4.7	3.9	3.5	3.6	4.5	6.3	9.3	13.7	19.7	27.5
		LIQ. PRESS.	232	233	234	235	236	238	240	242	244	246	248
		SUC. PRESS.	108	111	114	117	121	125	129	134	139	145	151
	65	SC	8.1	7.2	6.3	5.7	5.5	6.1	7.5	10.0	13.9	19.2	26.3
		LIQ. PRESS.	251	252	253	254	256	257	259	261	263	265	267
		SUC. PRESS.	110	113	115	119	122	127	131	136	141	147	153
	70	SC	10.1	9.2	8.2	7.5	7.1	7.4	8.4	10.5	13.9	18.6	25.1
		LIQ. PRESS.	272	273	274	275	277	278	280	281	283	286	288
		SUC. PRESS.	112	114	117	121	124	128	133	138	143	149	155
	75	SC	11.7	10.8	9.8	8.9	8.4	8.4	9.2	10.9	13.7	18.0	23.8
		LIQ. PRESS.	295	295	296	297	299	300	302	303	305	307	310
		SUC. PRESS.	113	116	119	122	126	130	135	140	145	151	157
	80	SC	12.8	12.0	11.0	10.1	9.4	9.2	9.7	11.0	13.5	17.2	22.4
		LIQ. PRESS.	318	319	320	321	322	323	325	327	329	331	333
		SUC. PRESS.	115	118	121	124	128	132	137	142	147	153	159
	85	SC	13.6	12.9	12.0	11.0	10.3	9.9	10.1	11.1	13.2	16.4	21.1
		LIQ. PRESS.	343	344	345	346	347	348	350	351	353	355	357
		SUC. PRESS.	117	119	122	126	130	134	138	143	149	155	161
	90	SC	14.0	13.5	12.7	11.7	10.9	10.4	10.4	11.2	12.8	15.7	19.8
		LIQ. PRESS.	370	370	371	372	373	374	376	377	379	381	383
		SUC. PRESS.	118	121	124	127	131	135	140	145	151	156	163
	95	SC	14.2	13.9	13.2	12.3	11.5	11.7	10.7	11.2	12.5	15.0	18.7
		LIQ. PRESS.	397	398	399	400	401	379	403	405	407	409	411
		SUC. PRESS.	120	123	126	129	133	145	142	147	152	158	164
100	SC	14.1	14.0	13.5	12.7	11.9	11.2	11.0	11.2	12.3	14.4	17.7	
	LIQ. PRESS.	426	427	428	429	430	431	432	434	435	437	439	
	SUC. PRESS.	121	124	127	131	134	139	143	148	154	160	166	
105	SC	13.9	14.1	13.7	13.1	12.3	11.6	11.3	11.4	12.2	14.0	16.9	
	LIQ. PRESS.	457	457	458	459	460	461	462	464	465	467	469	
	SUC. PRESS.	123	126	129	132	136	140	145	150	156	161	168	
110	SC	13.5	14.0	13.9	13.4	12.7	12.1	11.7	11.7	12.3	13.8	16.4	
	LIQ. PRESS.	489	489	490	491	491	493	494	495	497	499	501	
	SUC. PRESS.	124	127	130	134	138	142	147	152	157	163	169	
115	SC	12.9	13.8	14.0	13.8	13.2	12.6	12.2	12.1	12.6	13.8	16.1	
	LIQ. PRESS.	522	522	523	524	524	526	527	528	530	531	533	
	SUC. PRESS.	126	128	132	135	139	143	148	153	159	165	171	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)BE4M1SN60K W/ FIXED ORIFICE INDOOR UNIT
(5.0 TON / SCROLL COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SH	26.6	27.9	29.5	31.5	33.7	36.3	39.2	40.0	40.0	40.0	40.0
		SC	8.2	8.6	9.0	9.4	9.8	10.2	10.6	11.0	11.4	11.8	12.2
		LIQ. PRESS.	218	218	219	220	220	221	222	223	223	224	225
		SUC. PRESS.	109	110	112	113	115	116	118	120	121	123	125
	65	SH	21.6	22.8	24.3	26.2	28.3	30.8	33.6	36.7	40.0	40.0	40.0
		SC	7.4	7.8	8.2	8.6	9.0	9.4	9.8	10.2	10.6	11.0	11.4
		LIQ. PRESS.	236	237	237	238	239	240	241	241	242	243	244
		SUC. PRESS.	112	113	114	116	118	119	121	123	125	127	129
	70	SH	17.2	18.3	19.7	21.4	23.4	25.8	28.5	31.5	34.8	38.4	40.0
		SC	6.6	7.0	7.4	7.8	8.2	8.6	9.0	9.4	9.8	10.1	10.5
		LIQ. PRESS.	255	256	257	258	259	259	260	261	262	263	264
		SUC. PRESS.	114	115	117	119	121	123	125	127	129	131	133
75	SH	13.3	14.3	15.6	17.2	19.1	21.3	23.9	26.8	30.0	33.5	37.4	
	SC	5.9	6.3	6.7	7.1	7.4	7.8	8.2	8.6	9.0	9.4	9.8	
	LIQ. PRESS.	275	276	277	278	279	280	281	282	283	285	286	
	SUC. PRESS.	116	118	120	122	124	126	128	130	132	135	137	
80	SH	10.0	10.9	12.0	13.5	15.3	17.5	19.9	22.7	25.8	29.2	32.9	
	SC	5.2	5.6	6.0	6.4	6.7	7.1	7.5	7.9	8.3	8.6	9.0	
	LIQ. PRESS.	296	297	298	299	301	302	303	304	306	307	308	
	SUC. PRESS.	118	120	122	124	126	129	131	133	136	138	141	
85	SH	7.2	8.0	9.0	10.4	12.1	14.1	16.5	19.1	22.1	25.4	29.0	
	SC	4.6	4.9	5.3	5.7	6.1	6.4	6.8	7.2	7.6	7.9	8.3	
	LIQ. PRESS.	318	319	321	322	323	325	326	327	329	330	331	
	SUC. PRESS.	120	122	125	127	129	131	134	136	139	142	145	
90	SH	5.0	5.6	6.6	7.8	9.4	11.3	13.6	16.1	19.0	22.2	25.7	
	SC	4.0	4.3	4.7	5.1	5.4	5.8	6.2	6.5	6.9	7.3	7.7	
	LIQ. PRESS.	341	343	344	345	347	348	350	351	353	354	356	
	SUC. PRESS.	122	125	127	129	132	134	137	140	142	145	148	
95	SH	5.0	5.0	5.0	5.8	7.3	8.6	11.2	13.7	16.4	19.5	22.9	
	SC	3.4	3.7	4.1	4.5	4.8	6.8	5.6	5.9	6.3	6.7	7.0	
	LIQ. PRESS.	365	367	368	370	371	358	375	376	378	379	381	
	SUC. PRESS.	124	127	129	132	134	134	140	143	146	149	152	
100	SH	5.0	5.0	5.0	5.0	5.7	7.4	9.4	11.7	14.4	17.4	20.6	
	SC	2.8	3.2	3.6	3.9	4.3	4.6	5.0	5.4	5.7	6.1	6.4	
	LIQ. PRESS.	390	392	394	395	397	399	400	402	404	405	407	
	SUC. PRESS.	126	129	131	134	137	139	142	145	149	152	155	
105	SH	5.0	5.0	5.0	5.0	5.0	6.3	8.2	10.4	12.9	15.8	18.9	
	SC	2.3	2.7	3.0	3.4	3.8	4.1	4.5	4.8	5.2	5.5	5.9	
	LIQ. PRESS.	416	418	420	422	423	425	427	429	431	433	434	
	SUC. PRESS.	128	130	133	136	139	142	145	148	152	155	158	
110	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.5	9.6	12.0	14.7	17.8	
	SC	1.9	2.2	2.6	2.9	3.3	3.6	4.0	4.3	4.7	5.0	5.4	
	LIQ. PRESS.	443	445	447	449	451	453	455	457	459	461	463	
	SUC. PRESS.	129	132	135	138	141	144	148	151	154	158	162	
115	SH	5.0	5.0	5.0	5.0	5.0	5.7	7.3	9.3	11.6	14.2	17.2	
	SC	1.4	1.8	2.1	2.5	2.8	3.2	3.5	3.9	4.2	4.5	4.9	
	LIQ. PRESS.	471	473	476	478	480	482	484	486	488	490	492	
	SUC. PRESS.	131	134	137	140	143	147	150	154	157	161	165	

SC = Subcooling at the liquid valve; SH = Superheat at the vapor valve
 -Subcooling tolerance is ± 1°F
 -Superheat tolerance is ± 1°F
 -The subcooling and refrigerant pressures on this table are reference values for troubleshooting purposes only. Charge to superheat.
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)BE4M1SN60K W/ TXV INDOOR UNIT
(5.0 TON / SCROLL COMPRESSOR)**

14 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	5.6	4.7	3.9	3.5	3.6	4.5	6.3	9.3	13.7	19.7	27.5
		LIQ. PRESS.	232	233	234	235	236	238	240	242	244	246	248
		SUC. PRESS.	108	111	114	117	121	125	129	134	139	145	151
	65	SC	8.1	7.2	6.3	5.7	5.5	6.1	7.5	10.0	13.9	19.2	26.3
		LIQ. PRESS.	251	252	253	254	256	257	259	261	263	265	267
		SUC. PRESS.	110	113	115	119	122	127	131	136	141	147	153
	70	SC	10.1	9.2	8.2	7.5	7.1	7.4	8.4	10.5	13.9	18.6	25.1
		LIQ. PRESS.	272	273	274	275	277	278	280	281	283	286	288
		SUC. PRESS.	112	114	117	121	124	128	133	138	143	149	155
	75	SC	11.7	10.8	9.8	8.9	8.4	8.4	9.2	10.9	13.7	18.0	23.8
		LIQ. PRESS.	295	295	296	297	299	300	302	303	305	307	310
		SUC. PRESS.	113	116	119	122	126	130	135	140	145	151	157
	80	SC	12.8	12.0	11.0	10.1	9.4	9.2	9.7	11.0	13.5	17.2	22.4
		LIQ. PRESS.	318	319	320	321	322	323	325	327	329	331	333
		SUC. PRESS.	115	118	121	124	128	132	137	142	147	153	159
	85	SC	13.6	12.9	12.0	11.0	10.3	9.9	10.1	11.1	13.2	16.4	21.1
		LIQ. PRESS.	343	344	345	346	347	348	350	351	353	355	357
		SUC. PRESS.	117	119	122	126	130	134	138	143	149	155	161
	90	SC	14.0	13.5	12.7	11.7	10.9	10.4	10.4	11.2	12.8	15.7	19.8
		LIQ. PRESS.	370	370	371	372	373	374	376	377	379	381	383
		SUC. PRESS.	118	121	124	127	131	135	140	145	151	156	163
	95	SC	14.2	13.9	13.2	12.3	11.5	14.4	10.7	11.2	12.5	15.0	18.7
		LIQ. PRESS.	397	398	399	400	401	381	403	405	407	409	411
		SUC. PRESS.	120	123	126	129	133	134	142	147	152	158	164
100	SC	14.1	14.0	13.5	12.7	11.9	11.2	11.0	11.2	12.3	14.4	17.7	
	LIQ. PRESS.	426	427	428	429	430	431	432	434	435	437	439	
	SUC. PRESS.	121	124	127	131	134	139	143	148	154	160	166	
105	SC	13.9	14.1	13.7	13.1	12.3	11.6	11.3	11.4	12.2	14.0	16.9	
	LIQ. PRESS.	457	457	458	459	460	461	462	464	465	467	469	
	SUC. PRESS.	123	126	129	132	136	140	145	150	156	161	168	
110	SC	13.5	14.0	13.9	13.4	12.7	12.1	11.7	11.7	12.3	13.8	16.4	
	LIQ. PRESS.	489	489	490	491	491	493	494	495	497	499	501	
	SUC. PRESS.	124	127	130	134	138	142	147	152	157	163	169	
115	SC	12.9	13.8	14.0	13.8	13.2	12.6	12.2	12.1	12.6	13.8	16.1	
	LIQ. PRESS.	522	522	523	524	524	526	527	528	530	531	533	
	SUC. PRESS.	126	128	132	135	139	143	148	153	159	165	171	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)BF4M1SN24K W/ TXV INDOOR UNIT
(2.0 TON / SCROLL COMPRESSOR)**

16 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.3	8.7	9.1	9.6	10.2	11.0	12.0	13.3	14.9	16.9	19.3
		LIQ. PRESS.	218	219	221	222	224	227	230	233	237	242	247
		SUC. PRESS.	123	126	128	131	136	140	145	150	155	160	165
	65	SC	9.8	10.1	10.3	10.7	11.1	11.7	12.6	13.7	15.1	16.9	19.1
		LIQ. PRESS.	238	239	240	242	244	246	249	252	257	262	267
		SUC. PRESS.	124	127	129	132	137	141	146	151	156	161	166
	70	SC	10.9	11.0	11.1	11.3	11.6	12.1	12.8	13.7	14.9	16.5	18.5
		LIQ. PRESS.	258	259	260	262	264	266	269	272	276	281	286
		SUC. PRESS.	126	128	130	133	138	142	147	152	157	162	167
	75	SC	11.6	11.6	11.6	11.6	11.8	12.1	12.7	13.4	14.5	16.0	17.8
		LIQ. PRESS.	278	279	280	282	284	286	289	292	296	301	305
		SUC. PRESS.	127	129	131	134	139	143	148	153	158	163	168
	80	SC	11.9	11.8	11.7	11.7	11.8	12.0	12.4	13.0	14.0	15.3	16.9
		LIQ. PRESS.	300	301	301	303	305	307	310	313	317	322	326
		SUC. PRESS.	128	130	132	135	140	144	149	154	159	164	170
	85	SC	12.0	11.9	11.7	11.6	11.6	11.7	12.0	12.5	13.4	14.5	16.1
		LIQ. PRESS.	322	322	323	324	326	328	331	334	338	342	347
		SUC. PRESS.	130	131	133	136	141	145	150	155	161	166	171
	90	SC	12.0	11.8	11.6	11.5	11.4	11.4	11.6	12.1	12.8	13.9	15.3
		LIQ. PRESS.	346	346	346	347	349	348	354	357	361	365	370
		SUC. PRESS.	132	133	134	137	142	146	152	157	162	167	172
	95	SC	12.0	11.8	11.6	11.4	11.2	9.4	11.4	11.7	12.4	13.3	14.7
		LIQ. PRESS.	369	369	369	370	372	368	377	380	384	388	392
		SUC. PRESS.	133	134	135	138	143	147	153	158	163	168	173
100	SC	12.0	11.8	11.6	11.4	11.2	11.2	11.3	11.6	12.2	13.1	14.4	
	LIQ. PRESS.	395	395	395	396	398	397	403	406	409	413	417	
	SUC. PRESS.	135	136	136	139	144	148	154	159	164	169	174	
105	SC	12.3	12.1	11.9	11.6	11.5	11.4	11.5	11.8	12.3	13.2	14.4	
	LIQ. PRESS.	422	421	421	422	424	426	429	431	435	439	442	
	SUC. PRESS.	137	137	138	140	145	150	155	160	165	171	176	
110	SC	12.7	12.6	12.4	12.2	12.0	12.0	12.1	12.4	12.9	13.7	14.9	
	LIQ. PRESS.	452	452	452	452	454	456	459	461	464	468	472	
	SUC. PRESS.	138	139	139	141	146	151	156	161	166	172	177	
115	SC	13.6	13.5	13.3	13.2	13.1	13.0	13.2	13.5	14.0	14.8	16.0	
	LIQ. PRESS.	483	483	482	483	485	486	488	491	494	498	502	
	SUC. PRESS.	140	140	140	143	147	152	157	163	168	173	178	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)BF4M1SN30K W/ TXV INDOOR UNIT
(2.5 TON / SCROLL COMPRESSOR)**

16 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.3	8.7	9.1	9.6	10.2	11.0	12.0	13.3	14.9	16.9	19.3
		LIQ. PRESS.	212	214	215	217	218	220	223	226	230	235	241
		SUC. PRESS.	122	124	126	130	135	140	145	150	154	159	164
	65	SC	9.8	10.1	10.3	10.7	11.1	11.7	12.6	13.7	15.1	16.9	19.1
		LIQ. PRESS.	233	234	235	236	238	239	242	245	249	254	260
		SUC. PRESS.	123	125	127	131	136	141	146	151	156	161	166
	70	SC	10.9	11.0	11.1	11.3	11.6	12.1	12.8	13.7	14.9	16.5	18.5
		LIQ. PRESS.	253	254	254	255	257	258	261	264	268	273	279
		SUC. PRESS.	125	126	128	132	136	141	146	152	157	162	167
	75	SC	11.6	11.6	11.6	11.6	11.8	12.1	12.7	13.4	14.5	16.0	17.8
		LIQ. PRESS.	274	274	274	275	276	277	280	283	287	292	297
		SUC. PRESS.	126	127	129	132	137	142	147	153	158	163	169
	80	SC	11.9	11.8	11.7	11.7	11.8	12.0	12.4	13.0	14.0	15.3	16.9
		LIQ. PRESS.	295	295	295	295	296	297	301	304	308	313	317
		SUC. PRESS.	127	129	130	133	138	143	148	154	159	165	170
	85	SC	12.0	11.9	11.7	11.6	11.6	11.7	12.0	12.5	13.4	14.5	16.1
		LIQ. PRESS.	316	316	315	316	317	318	321	324	328	333	338
		SUC. PRESS.	129	130	131	134	139	144	149	155	160	166	171
	90	SC	12.0	11.8	11.6	11.5	11.4	11.4	11.6	12.1	12.8	13.9	15.3
		LIQ. PRESS.	338	338	338	338	340	341	344	347	351	356	360
		SUC. PRESS.	130	131	132	135	140	144	150	156	162	167	172
	95	SC	12.0	11.8	11.6	11.4	11.2	10.5	11.4	11.7	12.4	13.3	14.7
		LIQ. PRESS.	361	360	360	361	362	364	367	370	374	378	383
		SUC. PRESS.	132	133	134	136	141	145	152	157	163	168	174
100	SC	12.0	11.8	11.6	11.4	11.2	11.2	11.3	11.6	12.2	13.1	14.4	
	LIQ. PRESS.	387	386	386	387	388	390	393	396	400	405	409	
	SUC. PRESS.	133	134	135	137	142	147	153	159	164	170	175	
105	SC	12.3	12.1	11.9	11.6	11.5	11.4	11.5	11.8	12.3	13.2	14.4	
	LIQ. PRESS.	413	412	412	412	414	415	419	422	426	431	435	
	SUC. PRESS.	135	135	136	138	143	148	154	160	165	171	176	
110	SC	12.7	12.6	12.4	12.2	12.0	12.0	12.1	12.4	12.9	13.7	14.9	
	LIQ. PRESS.	444	443	443	443	445	446	450	453	457	462	468	
	SUC. PRESS.	137	137	137	140	145	150	155	161	167	172	178	
115	SC	13.6	13.5	13.3	13.2	13.1	13.0	13.2	13.5	14.0	14.8	16.0	
	LIQ. PRESS.	475	474	474	474	476	477	481	484	489	494	500	
	SUC. PRESS.	138	138	138	141	146	151	157	162	168	173	179	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)BF4M1SN36K W/ TXV INDOOR UNIT
(3.0 TON / SCROLL COMPRESSOR)**

16 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	8.3	8.7	9.1	9.6	10.2	11.0	12.0	13.3	14.9	16.9	19.3
		LIQ. PRESS.	218	220	221	223	225	227	231	234	238	243	249
		SUC. PRESS.	116	119	123	126	131	135	139	144	149	153	158
	65	SC	9.8	10.1	10.3	10.7	11.1	11.7	12.6	13.7	15.1	16.9	19.1
		LIQ. PRESS.	239	240	241	243	245	248	251	254	258	263	268
		SUC. PRESS.	118	121	124	127	132	136	141	145	150	155	159
	70	SC	10.9	11.0	11.1	11.3	11.6	12.1	12.8	13.7	14.9	16.5	18.5
		LIQ. PRESS.	259	260	262	263	265	268	270	273	277	282	287
		SUC. PRESS.	119	122	125	128	133	137	142	146	151	156	161
	75	SC	11.6	11.6	11.6	11.6	11.8	12.1	12.7	13.4	14.5	16.0	17.8
		LIQ. PRESS.	280	281	282	283	285	288	290	293	297	301	306
		SUC. PRESS.	121	123	126	129	134	138	143	147	152	157	162
	80	SC	11.9	11.8	11.7	11.7	11.8	12.0	12.4	13.0	14.0	15.3	16.9
		LIQ. PRESS.	301	302	303	305	307	309	312	314	317	322	326
		SUC. PRESS.	122	125	127	130	135	139	144	149	153	158	163
	85	SC	12.0	11.9	11.7	11.6	11.6	11.7	12.0	12.5	13.4	14.5	16.1
		LIQ. PRESS.	323	324	325	326	328	331	333	335	338	342	346
		SUC. PRESS.	124	126	128	131	136	141	145	150	155	160	165
	90	SC	12.0	11.8	11.6	11.5	11.4	11.4	11.6	12.1	12.8	13.9	15.3
		LIQ. PRESS.	347	348	348	350	351	346	355	357	360	364	368
		SUC. PRESS.	126	127	129	133	137	143	146	151	156	161	166
	95	SC	12.0	11.8	11.6	11.4	11.2	9.9	11.4	11.7	12.4	13.3	14.7
		LIQ. PRESS.	371	371	372	373	374	362	378	380	383	387	391
		SUC. PRESS.	127	129	131	134	138	146	148	152	157	162	168
100	SC	12.0	11.8	11.6	11.4	11.2	11.2	11.3	11.6	12.2	13.1	14.4	
	LIQ. PRESS.	397	397	397	398	400	394	403	405	408	413	417	
	SUC. PRESS.	129	130	132	135	140	145	149	153	158	163	169	
105	SC	12.3	12.1	11.9	11.6	11.5	11.4	11.5	11.8	12.3	13.2	14.4	
	LIQ. PRESS.	423	423	423	423	425	426	428	431	434	439	443	
	SUC. PRESS.	131	132	133	136	141	145	150	155	160	165	170	
110	SC	12.7	12.6	12.4	12.2	12.0	12.0	12.1	12.4	12.9	13.7	14.9	
	LIQ. PRESS.	453	453	452	453	454	456	458	461	464	469	474	
	SUC. PRESS.	132	133	134	137	142	146	151	156	161	166	171	
115	SC	13.6	13.5	13.3	13.2	13.1	13.0	13.2	13.5	14.0	14.8	16.0	
	LIQ. PRESS.	483	482	482	482	484	485	488	491	495	500	505	
	SUC. PRESS.	134	135	135	138	143	147	152	157	162	167	172	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
 -Refrigerant pressures are reference values for troubleshooting purposes only
 -Boxed data point is the performance rated condition
 -Having Difficulties? Try www.chargecalculator.com

***SA(1,2)BF4M1SN42K W/ TXV INDOOR
(3.5 TON / SCROLL COMPRESSOR)**

16 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	5.6	4.7	3.9	3.5	3.6	4.5	6.3	9.3	13.7	19.7	27.5
		LIQ. PRESS.	204	205	206	207	209	211	214	217	227	243	259
		SUC. PRESS.	115	119	122	127	131	136	141	145	150	155	160
	65	SC	8.1	7.2	6.3	5.7	5.5	6.1	7.5	10.0	13.9	19.2	26.3
		LIQ. PRESS.	225	225	226	227	228	230	233	237	246	262	278
		SUC. PRESS.	116	120	123	127	132	137	141	146	151	156	161
	70	SC	10.1	9.2	8.2	7.5	7.1	7.4	8.4	10.5	13.9	18.6	25.1
		LIQ. PRESS.	245	245	246	246	248	249	253	256	265	281	297
		SUC. PRESS.	117	120	124	128	132	137	142	147	152	157	162
	75	SC	11.7	10.8	9.8	8.9	8.4	8.4	9.2	10.9	13.7	18.0	23.8
		LIQ. PRESS.	266	266	265	266	267	269	272	275	285	300	316
		SUC. PRESS.	118	121	124	128	133	138	143	148	153	158	164
	80	SC	12.8	12.0	11.0	10.1	9.4	9.2	9.7	11.0	13.5	17.2	22.4
		LIQ. PRESS.	290	289	288	288	289	290	293	296	305	319	334
		SUC. PRESS.	119	122	125	129	134	139	144	149	154	159	165
	85	SC	13.6	12.9	12.0	11.0	10.3	9.9	10.1	11.1	13.2	16.4	21.1
		LIQ. PRESS.	313	312	310	310	311	311	314	317	325	338	351
		SUC. PRESS.	121	124	126	130	135	140	145	150	155	161	166
	90	SC	14.0	13.5	12.7	11.7	10.9	10.4	10.4	11.2	12.8	15.7	19.8
		LIQ. PRESS.	338	337	335	335	335	334	338	340	347	359	371
		SUC. PRESS.	123	125	127	131	136	139	145	150	155	161	167
	95	SC	14.2	13.9	13.2	12.3	11.5	10.8	10.7	11.2	12.5	15.0	18.7
		LIQ. PRESS.	364	362	360	359	359	356	361	363	370	381	392
		SUC. PRESS.	124	126	129	132	137	138	146	151	156	162	168
100	SC	14.1	14.0	13.5	12.7	11.9	11.2	11.0	11.2	12.3	14.4	17.7	
	LIQ. PRESS.	390	389	388	387	386	384	387	389	395	405	415	
	SUC. PRESS.	126	128	130	133	138	141	148	153	158	164	170	
105	SC	13.9	14.1	13.7	13.1	12.3	11.6	11.3	11.4	12.2	14.0	16.9	
	LIQ. PRESS.	417	416	415	414	413	411	413	415	420	429	438	
	SUC. PRESS.	128	130	131	135	139	144	149	154	160	165	171	
110	SC	13.5	14.0	13.9	13.4	12.7	12.1	11.7	11.7	12.3	13.8	16.4	
	LIQ. PRESS.	445	445	445	444	443	441	443	444	449	457	465	
	SUC. PRESS.	131	132	133	136	141	145	151	156	161	167	172	
115	SC	12.9	13.8	14.0	13.8	13.2	12.6	12.2	12.1	12.6	13.8	16.1	
	LIQ. PRESS.	473	474	475	474	473	471	472	473	477	484	492	
	SUC. PRESS.	133	134	134	137	142	147	152	157	162	168	174	

SC = Subcooling at the liquid valve
 -Subcooling tolerance is ± 1°F
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***SA(1,2)BF4M1SN48K W/ TXV INDOOR UNIT
(4.0 TON / SCROLL COMPRESSOR)**

16 SEER		INDOOR WET-BULB TEMPERATURE (°F)											
		57	59	61	63	65	67	69	71	73	75	77	
OUTDOOR DRY-BULB TEMPERATURE (°F)	60	SC	5.6	4.7	3.9	3.5	3.6	4.5	6.3	9.3	13.7	19.7	27.5
		LIQ. PRESS.	209	209	210	211	213	215	218	222	231	245	260
		SUC. PRESS.	119	121	124	128	133	137	142	147	152	156	161
	65	SC	8.1	7.2	6.3	5.7	5.5	6.1	7.5	10.0	13.9	19.2	26.3
		LIQ. PRESS.	229	229	230	231	233	234	238	241	250	265	279
		SUC. PRESS.	120	122	125	129	133	138	143	148	153	157	162
	70	SC	10.1	9.2	8.2	7.5	7.1	7.4	8.4	10.5	13.9	18.6	25.1
		LIQ. PRESS.	249	250	250	251	252	254	257	260	269	284	298
		SUC. PRESS.	121	123	126	129	134	139	144	149	154	159	164
	75	SC	11.7	10.8	9.8	8.9	8.4	8.4	9.2	10.9	13.7	18.0	23.8
		LIQ. PRESS.	270	270	270	270	272	273	277	280	289	303	318
		SUC. PRESS.	122	124	126	130	135	140	144	149	155	160	165
	80	SC	12.8	12.0	11.0	10.1	9.4	9.2	9.7	11.0	13.5	17.2	22.4
		LIQ. PRESS.	293	292	292	292	293	295	298	301	309	322	336
		SUC. PRESS.	123	125	127	131	136	140	145	150	155	160	166
85	SC	13.6	12.9	12.0	11.0	10.3	9.9	10.1	11.1	13.2	16.4	21.1	
	LIQ. PRESS.	316	315	314	314	315	316	319	322	329	341	354	
	SUC. PRESS.	124	126	128	132	137	141	146	150	155	161	167	
90	SC	14.0	13.5	12.7	11.7	10.9	10.4	10.4	11.2	12.8	15.7	19.8	
	LIQ. PRESS.	341	340	339	339	339	340	342	345	352	363	373	
	SUC. PRESS.	126	128	129	133	138	139	147	152	157	163	168	
95	SC	14.2	13.9	13.2	12.3	11.5	10.7	10.7	11.2	12.5	15.0	18.7	
	LIQ. PRESS.	366	365	364	363	363	363	366	369	375	384	393	
	SUC. PRESS.	128	129	131	134	139	137	148	153	159	164	169	
100	SC	14.1	14.0	13.5	12.7	11.9	11.2	11.0	11.2	12.3	14.4	17.7	
	LIQ. PRESS.	392	391	390	390	390	390	392	394	399	407	415	
	SUC. PRESS.	129	131	132	135	140	141	150	155	160	165	170	
105	SC	13.9	14.1	13.7	13.1	12.3	11.6	11.3	11.4	12.2	14.0	16.9	
	LIQ. PRESS.	418	418	417	417	416	416	417	419	423	430	437	
	SUC. PRESS.	131	132	133	136	141	146	151	156	161	166	172	
110	SC	13.5	14.0	13.9	13.4	12.7	12.1	11.7	11.7	12.3	13.8	16.4	
	LIQ. PRESS.	446	446	447	447	446	445	446	447	451	458	465	
	SUC. PRESS.	134	134	135	137	142	147	152	157	162	168	173	
115	SC	12.9	13.8	14.0	13.8	13.2	12.6	12.2	12.1	12.6	13.8	16.1	
	LIQ. PRESS.	473	474	476	476	475	474	474	474	478	485	492	
	SUC. PRESS.	136	136	136	138	143	148	153	158	163	169	174	

SC = Subcooling at the liquid valve
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