

14 SEER AIR CONDITIONING CHARGING PROCEDURE

1. CHARGE THE SYSTEM BY WEIGHT, IF OUTDOOR TEMPERATURE IS BELOW 65°F:

OUTDOOR UNITS ARE FACTORY CHARGED WITH R410A FOR 15 FT. OF LINE SET. ADD OR REMOVE 0.6 OZ. FOR EVERY FOOT OF LINE SET DIFFERENT THAN 15 FT. FINAL CHARGE ADJUSTMENT MUST BE MADE PER ITEM (2) BELOW, ONCE THE OUTDOOR TEMPERATURE RISE ABOVE 65 °F.

2. IF OUTDOOR TEMPERATURE IS ABOVE 65°F, ADJUST CHARGE AS FOLLOWS:

- CHECK FOR PROPER AIR FLOW AND RUN THE SYSTEM FOR 20 MINUTES FOR STABILIZATION
- USE SUPERHEAT FOR ORIFICE COILS (SEE TABLE BELOW)
- USE SUBCOOLING FOR TXV COILS (SEE TABLE BELOW), PROVIDED THAT SUPERHEAT IS WITHIN 8-16 °F AT OUTDOOR UNIT AND THE REFERENCED PRESSURES BELOW ARE WITHIN ± 3 PSI FOR LOW SIDE AND ± 10 PSI FOR HIGH SIDE
- CONTACT TECHNICAL SERVICE, IF MEASURED VALUES ARE OUTSIDE THE RANGE OF THE LISTED DATA

MODELS	18	24	30	36	41	42	47	48	59	60
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TABLE 1 - SUBCOOLING METHOD (TXV SYSTEM) $\pm 1^\circ\text{F}$

OUTDOOR TEMP (°F)	LIQUID LINE SATURATION TEMPERATURE MINUS LIQUID LINE TEMPERATURE									
65	8	8	7	6	7	8	6	5	7	7
75	8	8	7	6	7	8	6	5	7	7
85	8	8	7	6	7	8	7	5	7	7
95	8	8	7	8	7	8	8	5	7	8
105	10	10	9	8	7	10	8	5	8	8
115	11	11	9	8	8	10	8	5	8	8

TABLE 2 - APPROACH METHOD (TXV SYSTEM) $\pm 1^\circ\text{F}$ - FOR REFERENCE ONLY

LIQUID LINE TEMPERATURE MINUS OUTDOOR AMBIENT TEMPERATURE										
TEMP (°F)	6	5	6	7	4	5	8	8	9	9

TABLE 3 - OPERATING PRESSURES (FOR REFERENCE)

OUTDOOR TEMP (°F)	HIGH / LOW PRESSURES (PSI)									
65	240/130	245/130	230/130	240/130	233/142	230/135	233/139	250/126	210/126	244/125
75	270/135	280/135	270/135	275/135	256/143	270/140	272/141	300/134	250/131	281/131
85	300/140	320/140	310/140	310/140	299/145	310/145	315/142	350/135	294/136	324/136
95	350/145	360/145	350/145	370/145	343/146	355/150	361/144	380/148	354/143	370/140
105	470/150	410/150	400/150	415/150	389/148	410/150	413/145	420/149	390/148	418/145
115	530/155	470/150	460/150	470/150	452/151	460/155	465/148	490/150	440/150	471/147

TABLE 4 - SUPERHEAT METHOD (ORIFICE SYSTEM) $\pm 1^\circ\text{F}$

SUCTION LINE SATURATION TEMPERATURE MINUS SUCTION LINE TEMPERATURE										
OUTDOOR TEMP (°F)	65	70	75	80	85	90	95	100	105	
SUPERHEAT (°F)	35	30	25	22	18	12	8	5	5	

ORIFICE	18	24	30	36	41	42	47	48	59	60
	0.053	0.057	.065	0.071	0.074	0.083	0.080	0.083	0.093	.093

TXV	A4TXV01	A4TXV02
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ALL MEASUREMENTS ARE AT THE SERVICE VALVES AND ARE BASED ON 80db/67wb INDOOR TEMPERATURE.

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