

16 SEER AIR CONDITIONING CHARGING PROCEDURES

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:

- A. CHECK FOR PROPER AIR FLOW AND RUN THE SYSTEM FOR 20 MINUTES FOR STABILIZATION
- B. USE SUPERHEAT FOR ORIFICE COILS (SEE TABLE BELOW)
- C. 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
- D. CONTACT TECHNICAL SERVICE, IF MEASURED VALUES ARE OUTSIDE THE RANGE OF THE LISTED DATA

MODELS	24	36	48	60
TABLE 1 - SUBCOOLING METHOD (TXV SYSTEM) ± 1 °F				
OUTDOOR TEMP (°F)	LIQUID LINE SATURATION TEMPERATURE MINUS LIQUID LINE TEMPERATURE			
95	8	9	9	8
TABLE 2 - APPROACH METHOD (TXV SYSTEM) ± 1 °F - FOR REFERENCE ONLY				
	LIQUID LINE TEMPERATURE MINUS OUTDOOR AMBIENT TEMPERATURE			
TEMP (°F)	8	10	8	4
TABLE 3 - LOW CAPACITY OPERATING PRESSURES (FOR REFERENCE)				
OUTDOOR TEMP (°F)	HIGH / LOW PRESSURES (PSI)			
65	223/141	227/137	224/142	215/136
75	256/143	261/142	258/144	250/139
85	297/145	302/145	299/146	291/142
95	341/148	347/148	345/148	337/144
105	389/150	396/150	395/150	388/146
115	443/153	452/154	450/153	444/148
TABLE 4 - HIGH CAPACITY OPERATING PRESSURES (FOR REFERENCE)				
OUTDOOR TEMP (°F)	HIGH / LOW PRESSURES (PSI)			
65	232/140	244/132	235/135	220/130
75	268/143	278/139	269/137	256/133
85	310/145	321/142	313/139	299/136
95	356/147	368/144	361/141	347/138
105	405/149	419/147	412/143	402/141
115	459/152	476/150	471/146	462/143

ALL MEASUREMENTS ARE AT THE SERVICE VALVES AND ARE BASED ON 80db/67wb INDOOR TEMPERATURE.
SUBCOOLING AND APPROACH VALUES ARE AT HIGH CAPACITY STAGE.