

14 SEER HEAT PUMP CHARGING PROCEDURE

- 1- UNITS ARE FACTORY CHARGED WITH R410A FOR 15 FEET OF LINE SET, AS MARKED ON THE NAMEPLATE.
- 2- ADD OR REMOVE 0.6 OZ FOR EVERY FOOT OF LINE SET DIFFERENT THAN 15 FEET.
- 3- CHECK FOR PROPER AIR FLOW AND RUN THE SYSTEM FOR 20-30 MINUTES BEFORE ADJUSTING CHARGE.
- 4- CHARGE THE SYSTEM BY WEIGHT IF AMBIENT TEMPERATURE IS BELOW 65°F.
- 5- CHARGE BY WEIGHT AND/OR FOLLOW THE VARIOUS METHODS LISTED BELOW IF AMBIENT TEMPERATURE IS ABOVE 65°F.

MODELS	18	24	30	36	42	48	60
TABLE 1 - SUBCOOLING METHOD (TXV SYSTEM) ± 1 °F							
OUTDOOR TEMP. °F	<i>LIQUID LINE SATURATION TEMPERATURE MINUS LIQUID LINE TEMPERATURE</i>						
65	6	3	11	4	6	8	6
75	6	2	10	4	6	7	6
85	5	1	9	4	5	7	5
95	5	1	9	4	5	6	5
105	5	1	8	3	4	6	5
115	5	1	7	3	4	5	4
TABLE 2 - APPROACH METHOD (TXV SYSTEM) ± 1 °F							
<i>LIQUID LINE TEMPERATURE MINUS OUTDOOR AMBIENT TEMPERATURE</i>							
TEMP. °F	5	11	6	12	6	7	9
TABLE 3 - OPERATING PRESSURES (FOR REFERENCE)							
OUTDOOR TEMP. °F	HIGH / LOW PRESSURE (PSI) - COOLING						
65	205/130	212/135	217/137	219/136	209/131	218/131	222/134
75	240/135	257/137	283/139	266/139	254/134	254/134	268/136
85	285/138	301/140	309/140	313/142	298/137	310/137	314/139
95	340/140	346/142	355/142	360/145	343/140	356/140	360/141
105	342/145	391/144	401/144	407/148	388/143	402/143	406/143
115	445/150	435/147	447/145	454/151	432/146	448/146	445/146
HEATING							
50	350/115	314/110	317/103	245/109	393/112	362/110	315/115
47	340/105	300/95	303/89	259/95	372/98	340/96	300/99
35	300/90	285/80	288/76	272/80	351/83	318/81	285/83
17	280/60	270/65	273/62	286/65	330/68	297/66	270/68

TABLE 4 - SUPERHEAT METHOD (ORIFICE SYSTEM) ± 1 °F										
<i>SUCTION LINE SATURATION TEMPERATURE MINUS SUCTION LINE TEMPERATURE</i>										
OUTDOOR TEMP (°F)	60	65	70	75	80	85	90	95	100	105
SUPERHEAT (°F)	38	35	30	26	22	18	12	8	5	0

EXPANSION DEVICE	H4TXV01	H4TXV02	H4TXV03
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ALL MEASUREMENTS ARE AT THE SERVICE VALVES AND ARE BASED ON 80db/67wb INDOOR TEMPERATURE.



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