

REFRIGERANT CHARGE MEASUREMENT CHARTS

Table RA3.2-3 Target Temperature Split (Return Dry-Bulb – Supply Dry-Bulb)

		Return Air Wet-Bulb (°F) (T return, wb)																											
		50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	
Return Air Dry-Bulb (°F) (T return, db)	60	15	15	15	15	15	14	14	14	13	13	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	61	16	16	16	15	15	15	15.0	14.0	14.0	13.0	13.0	12.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	62	16	16	16	16	16	15	15.0	15.0	14.0	14.0	13.0	13.0	12.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	63	17	17	17	17	16	16	16.0	15.0	15.0	14.0	14.0	13.0	13.0	12.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
	64	18	17	17	17	17	17	16.0	16.0	15.0	15.0	14.0	14.0	13.0	13.0	12.0	-	-	-	-	-	-	-	-	-	-	-	-	
	65	18	18	18	18	17	17	17.0	16.0	16.0	16.0	15.0	14.0	14.0	13.0	12.0	12.0	-	-	-	-	-	-	-	-	-	-	-	
	66	19	19	18	18	18	18	17.0	17.0	17.0	16.0	16.0	15.0	14.0	14.0	13.0	12.0	11.0	-	-	-	-	-	-	-	-	-	-	
	67	19	19	19	19	19	18	18.0	18.0	17.0	17.0	16.0	16.0	15.0	14.0	14.0	13.0	12.0	11.0	-	-	-	-	-	-	-	-	-	
	68	20	20	19	19	19	19	18.0	18.0	18.0	17.0	17.0	16.0	15.0	15.0	14.0	13.0	13.0	12.0	11.0	-	-	-	-	-	-	-	-	
	69	20	20	20	20	20	19	19.0	19.0	18.0	18.0	17.0	17.0	16.0	15.0	15.0	14.0	13.0	12.0	11.0	10	-	-	-	-	-	-	-	
	70	21	21	21	20	20	20	19.5	19.1	18.7	18.2	17.7	17.2	16.5	15.9	15.2	14.4	13.7	12.8	12.0	11	10	-	-	-	-	-	-	
	71	21	21	21	21	21	20	20.1	19.7	19.3	18.8	18.3	17.7	17.1	16.4	15.7	15.0	14.2	13.4	12.5	12	11	10	-	-	-	-	-	
	72	22	22	22	22	21	21	20.6	20.2	19.8	19.3	18.8	18.2	17.6	17.0	16.3	15.5	14.7	13.9	13.0	12.1	11	10	9	-	-	-	-	
	73	23	22	22	22	22	22	21.2	20.8	20.3	19.9	19.4	18.8	18.2	17.5	16.8	16.1	15.3	14.4	13.6	12.6	11.7	11	10	8	-	-	-	
	74	23	23	23	23	22	22	21.7	21.3	20.9	20.4	19.9	19.3	18.7	18.1	17.4	16.6	15.8	15.0	14.1	13.2	12.2	11.2	10	9	8	-	-	
	75	24	24	23	23	23	23	22.2	21.9	21.4	21.0	20.4	19.9	19.3	18.6	17.9	17.2	16.4	15.5	14.7	13.7	12.7	11.7	10.7	10	8	7	-	
	76	24	24	24	24	23	23	22.8	22.4	22.0	21.5	21.0	20.4	19.8	19.2	18.5	17.7	16.9	16.1	15.2	14.3	13.3	12.3	11.2	10.1	9	8	6	
	77	-	25	24	24	24	24	23.3	22.9	22.5	22.0	21.5	21.0	20.4	19.7	19.0	18.3	17.5	16.6	15.7	14.8	13.8	12.8	11.7	10.6	9.5	8	7	
	78	-	-	-	25	25	24	23.9	23.5	23.1	22.6	22.1	21.5	20.9	20.2	19.5	18.8	18.0	17.2	16.3	15.4	14.4	13.4	12.3	11.2	10	8.8	8	
	79	-	-	-	-	-	25	24.4	24.0	23.6	23.1	22.6	22.1	21.4	20.8	20.1	19.3	18.5	17.7	16.8	15.9	14.9	13.9	12.8	11.7	10.6	9.4	8.1	
	80	-	-	-	-	-	-	25.0	24.6	24.2	23.7	23.2	22.6	22.0	21.3	20.6	19.9	19.1	18.3	17.4	16.4	15.5	14.4	13.4	12.3	11.1	9.9	8.7	
	81	-	-	-	-	-	-	-	25.1	24.7	24.2	23.7	23.1	22.5	21.9	21.2	20.4	19.6	18.8	17.9	17	16	15	13.9	12.8	11.7	10.4	9.2	
	82	-	-	-	-	-	-	-	-	25.2	24.8	24.2	23.7	23.1	22.4	21.7	21.0	20.2	19.3	18.5	17.5	16.6	15.5	14.5	13.4	12.2	11	9.7	
	83	-	-	-	-	-	-	-	-	-	25.3	24.8	24.2	23.6	23.0	22.3	21.5	20.7	19.9	19.0	18.1	17.1	16.1	15	13.9	12.7	11.5	10.3	
	84	-	-	-	-	-	-	-	-	-	25.9	25.3	24.8	24.2	23.5	22.8	22.1	21.3	20.4	19.5	18.6	17.6	16.6	15.6	14.4	13.3	12.1	10.8	

Pressure Temperature Chart					
Temp. (F)	Pressure		Temp. (F)	Pressure	
	R22	R410A		R22	R410A
0°	24.0	48.2	33°	58.8	103.6
1°	24.8	49.2	34°	60.1	105.7
2°	25.6	50.9	35°	61.5	107.9
3°	26.5	52.2	36°	62.8	110.0
4°	27.3	53.6	37°	64.2	112.2
5°	28.2	55.0	38°	65.6	114.4
6°	29.1	56.4	39°	67.1	116.7
7°	30.0	57.9	40°	68.5	118.9
8°	31.8	59.3	41°	70.0	121.2
9°	32.8	60.8	42°	71.5	123.6
10°	33.7	62.3	43°	73.0	125.9
11°	34.7	63.9	44°	74.5	128.3
12°	35.7	65.4	45°	76.0	130.7
13°	36.7	67.0	46°	77.6	133.2
14°	37.7	68.6	47°	79.2	135.6
15°	38.7	70.2	48°	80.8	138.2
16°	39.8	71.9	49°	82.4	140.7
17°	40.9	73.5	50°	84.0	143.3
18°	41.9	75.2	55°	92.6	156.6
19°	43.0	77.0	60°	101.6	170.7
20°	44.1	78.7	65°	111.2	185.7
21°	45.3	80.5	70°	121.4	201.5
22°	46.4	82.3	75°	132.2	218.2
23°	47.6	84.1	80°	143.6	235.9
24°	48.8	85.9	85°	155.7	254.6
25°	49.9	87.8	90°	168.4	274.3
26°	51.2	89.7	95°	181.8	295.0
27°	52.4	91.6	100°	195.9	316.9
28°	52.4	93.5	105°	210.8	339.9
29°	53.6	95.5	110°	226.4	364.1
30°	54.9	97.5	115°	242.7	389.6
31°	56.2	99.5	120°	259.9	416.4
32°	57.5	101.6	125°	277.9	444.5

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Table RA3.2-2 Target Superheat (Suction Line Temperature-Evaporator Saturation Temperature)

Condenser Air Dry-Bulb Temperature (°F) (T condenser, db)

Condenser Dry Bulb Temperatures between 55 and 65 degrees require return plenum temperature of 70° F or higher.