

# Target Superheat

Fixed orifice indoor coils. Measured at the vapor line entering the outdoor unit.

Condenser entering air dry bulb °F	Evaporator entering air wet bulb °F															
	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80
40	11	14	17	20	25	29	33	37	40	43	45	47	50	53	56	—
45	11	13	16	19	23	27	31	34	37	40	43	45	47	50	53	57
50	10	13	15	18	22	25	29	32	35	38	40	42	45	47	50	54
55	9	12	14	17	20	23	26	29	32	35	37	40	42	45	48	51
60	7	10	12	15	18	21	24	27	30	33	35	38	40	43	46	49
65	4	6	10	13	16	19	21	24	27	30	33	36	38	41	44	47
70	—	3	6	10	13	16	19	21	24	27	30	33	36	39	42	45
75	—	—	1	6	9	12	15	18	21	24	28	31	34	37	40	43
80	—	—	—	1	5	8	12	15	18	21	25	28	31	35	38	41
85	—	—	—	—	0	6	8	13	15	19	22	26	30	33	37	40
90	—	—	—	—	—	1	5	10	13	16	20	24	27	31	35	39
95	—	—	—	—	—	—	2	6	10	14	18	22	25	29	34	37
100	—	—	—	—	—	—	—	3	8	12	15	20	23	28	32	36
105	—	—	—	—	—	—	—	—	5	9	13	17	22	26	30	35
110	—	—	—	—	—	—	—	—	2	6	11	15	20	24	29	34
115	—	—	—	—	—	—	—	—	—	4	8	14	18	23	28	33

Use caution at conditions under five degrees superheat, compressor flooding may occur. Consider weighing in correct charge.

# Evaporator Leaving Air Temperature

Evaporator entering air dry bulb °F	Evaporator entering air wet bulb °F																									
	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
68	47	48	50	50	51	51	52	52	53	54	54	55	56	57	—	—	—	—	—	—	—	—	—	—	—	—
70	49	50	51	51	52	52	53	53	54	55	55	56	57	58	59	60	—	—	—	—	—	—	—	—	—	—
72	50	51	51	52	53	53	54	55	55	56	57	57	58	59	60	61	62	63	—	—	—	—	—	—	—	—
74	51	52	52	53	53	54	55	55	56	57	58	58	59	60	61	62	63	64	65	—	—	—	—	—	—	—
76	52	53	53	54	54	55	55	56	57	57	58	58	60	61	62	63	64	65	66	67	68	69	—	—	—	—
78	53	54	54	55	55	56	56	57	57	58	59	60	61	62	63	64	65	66	67	68	69	70	70	71	—	—
80	54	55	55	56	56	56	57	58	58	59	60	61	62	63	64	65	66	67	68	69	70	70	71	72	72	73
82	55	56	56	57	57	57	58	59	60	60	61	62	63	64	65	66	67	68	69	70	70	71	72	72	73	74
84	56	57	57	58	59	59	60	60	61	61	62	63	63	64	65	66	67	68	69	70	71	72	72	73	74	75
86	57	58	58	58	59	59	60	60	61	62	63	64	65	66	67	68	69	70	70	71	72	73	73	74	75	76
88	58	59	59	59	60	60	61	61	62	63	64	65	66	67	68	69	70	71	71	72	73	74	74	75	76	77

Measured leaving air temperature 3° lower than chart value indicates low airflow. Increase fan speed or correct airflow problem.

# Condenser Temperatures

System SEER	Condenser Saturation Temperature Rise Above Outdoor Ambient If higher than chart indicates, correct airflow, overcharge or non condensables.	Subcooling
8 or less	25° to 35°	Fixed orifice: 3° to 30° Thermal Expansion Valve: consult manufactures data (4° to 20°) or use 10° to 15°
9 or 10	20° to 30°	
11 or 12	15° to 25°	
13 and above	10° to 20°	

Condenser saturation temperature over ambient is determined by the coil size, the greater the area, the lower the temperature rise. Note that a coil with more capacity than the compressor, as well as low ambient temperatures, can have a lower rise than the chart indicates. Long lines and high indoor unit elevations can have a higher temperature rise than the chart.