

## Appendix

Appendix 1: Resistance Table of Ambient Temperature Sensor for Indoor and Outdoor Units(15K)							
Temp.(°F)	Resistance(kΩ)		Temp.(°F)	Resistance(kΩ)		Temp.(°F)	Resistance(kΩ)
-2.2	138.1		68	18.75		138.2	3.848
-0.4	128.6		69.8	17.93		140	3.711
1.4	121.6		71.6	17.14		141.8	3.579
3.2	115		73.4	16.39		143.6	3.454
5	108.7		75.2	15.68		145.4	3.333
6.8	102.9		77	15		147.2	3.217
8.6	97.4		78.8	14.36		149	3.105
10.4	92.22		80.6	13.74		150.8	2.998
12.2	87.35		82.4	13.16		152.6	2.896
14	82.75		84.2	12.6		154.4	2.797
15.8	78.43		86	12.07		156.2	2.702
17.6	74.35		87.8	11.57		158	2.611
19.4	70.5		89.6	11.09		159.8	2.523
21.2	66.88		91.4	10.63		161.6	2.439
23	63.46		93.2	10.2		163.4	2.358
24.8	60.23		95	9.779		165.2	2.28
26.6	57.18		96.8	9.382		167	2.206
28.4	54.31		98.6	9.003		168.8	2.133
30.2	51.59		100.4	8.642		170.6	2.064
32	49.02		102.2	8.297		172.4	1.997
33.8	46.6		104	7.967		174.2	1.933
35.6	44.31		105.8	7.653		176	1.871
37.4	42.14		107.6	7.352		177.8	1.811
39.2	40.09		109.4	7.065		179.6	1.754
41	38.15		111.2	6.791		181.4	1.699
42.8	36.32		113	6.529		183.2	1.645
44.6	34.58		114.8	6.278		185	1.594
46.4	32.94		116.6	6.038		186.8	1.544
48.2	31.38		118.4	5.809		188.6	1.497
50	29.9		120.2	5.589		190.4	1.451
51.8	28.51		122	5.379		192.2	1.408
53.6	27.18		123.8	5.197		194	1.363
55.4	25.92		125.6	4.986		195.8	1.322
57.2	24.73		127.4	4.802		197.6	1.282
59	23.6		129.2	4.625		199.4	1.244
60.8	22.53		131	4.456		201.2	1.207
62.6	21.51		132.8	4.294		203	1.171
64.4	20.54		134.6	4.139		204.8	1.136
66.2	19.63		136.4	3.99		206.6	1.103
						208.4	1.071
						210.2	1.039
						212	1.009
						213.8	0.98
						215.6	0.952
						217.4	0.925
						219.2	0.898
						221	0.873
						222.8	0.848
						224.6	0.825
						226.4	0.802
						228.2	0.779
						230	0.758
						231.8	0.737
						233.6	0.717
						235.4	0.697
						237.2	0.678
						239	0.66
						240.8	0.642
						242.6	0.625
						244.4	0.608
						246.2	0.592
						248	0.577
						249.8	0.561
						251.6	0.547
						253.4	0.532
						255.2	0.519
						257	0.505
						258.8	0.492
						260.6	0.48
						262.4	0.467
						264.2	0.456
						266	0.444
						267.8	0.433
						269.6	0.422
						271.4	0.412
						273.2	0.401
						275	0.391
						276.8	0.382

Appendix 2: Resistance Table of Outdoor and Indoor Tube Temperature Sensors(20K)										
Temp.(°F)	Resistance(kΩ)		Temp.(°F)	Resistance(kΩ)		Temp.(°F)	Resistance(kΩ)		Temp.(°F)	Resistance(kΩ)
-2.2	181.4		68	25.01		138.2	5.13		208.4	1.427
-0.4	171.4		69.8	23.9		140	4.948		210.2	1.386
1.4	162.1		71.6	22.85		141.8	4.773		212	1.346
3.2	153.3		73.4	21.85		143.6	4.605		213.8	1.307
5	145		75.2	20.9		145.4	4.443		215.6	1.269
6.8	137.2		77	20		147.2	4.289		217.4	1.233
8.6	129.9		78.8	19.14		149	4.14		219.2	1.198
10.4	123		80.6	18.13		150.8	3.998		221	1.164
12.2	116.5		82.4	17.55		152.6	3.861		222.8	1.131
14	110.3		84.2	16.8		154.4	3.729		224.6	1.099
15.8	104.6		86	16.1		156.2	3.603		226.4	1.069
17.6	99.13		87.8	15.43		158	3.481		228.2	1.039
19.4	94		89.6	14.79		159.8	3.364		230	1.01
21.2	89.17		91.4	14.18		161.6	3.252		231.8	0.983
23	84.61		93.2	13.59		163.4	3.144		233.6	0.956
24.8	80.31		95	13.04		165.2	3.04		235.4	0.93
26.6	76.24		96.8	12.51		167	2.94		237.2	0.904
28.4	72.41		98.6	12		168.8	2.844		239	0.88
30.2	68.79		100.4	11.52		170.6	2.752		240.8	0.856
32	65.37		102.2	11.06		172.4	2.663		242.6	0.833
33.8	62.13		104	10.62		174.2	2.577		244.4	0.811
35.6	59.08		105.8	10.2		176	2.495		246.2	0.77
37.4	56.19		107.6	9.803		177.8	2.415		248	0.769
39.2	53.46		109.4	9.42		179.6	2.339		249.8	0.746
41	50.87		111.2	9.054		181.4	2.265		251.6	0.729
42.8	48.42		113	8.705		183.2	2.194		253.4	0.71
44.6	46.11		114.8	8.37		185	2.125		255.2	0.692
46.4	43.92		116.6	8.051		186.8	2.059		257	0.674
48.2	41.84		118.4	7.745		188.6	1.996		258.8	0.658
50	39.87		120.2	7.453		190.4	1.934		260.6	0.64
51.8	38.01		122	7.173		192.2	1.875		262.4	0.623
53.6	36.24		123.8	6.905		194	1.818		264.2	0.607
55.4	34.57		125.6	6.648		195.8	1.736		266	0.592
57.2	32.98		127.4	6.403		197.6	1.71		267.8	0.577
59	31.47		129.2	6.167		199.4	1.658		269.6	0.563
60.8	30.04		131	5.942		201.2	1.609		271.4	0.549
62.6	28.68		132.8	5.726		203	1.561		273.2	0.535
64.4	27.39		134.6	5.519		204.8	1.515		275	0.521
66.2	26.17		136.4	5.32		206.6	1.47		276.8	0.509

**Appendix 3: Resistance Table of Outdoor Discharge Temperature Sensor(50K)**

Temp.(°F)	Resistance(kΩ)	Temp.(°F)	Resistance(kΩ)	Temp.(°F)	Resistance(kΩ)	Temp.(°F)	Resistance(kΩ)
-20.2	853.5	50	98	120.2	18.34	190.4	4.754
-18.4	799.8	51.8	93.42	122	17.65	192.2	4.609
-16.6	750	53.6	89.07	123.8	16.99	194	4.469
-14.8	703.8	55.4	84.95	125.6	16.36	195.8	4.334
-13	660.8	57.2	81.05	127.4	15.75	197.6	4.204
-11.2	620.8	59	77.35	129.2	15.17	199.4	4.079
-9.4	580.6	60.8	73.83	131	14.62	201.2	3.958
-7.6	548.9	62.6	70.5	132.8	14.09	203	3.841
-5.8	516.6	64.4	67.34	134.6	13.58	204.8	3.728
-4	486.5	66.2	64.33	136.4	13.09	206.6	3.619
-2.2	458.3	68	61.48	138.2	12.62	208.4	3.514
-0.4	432	69.8	58.77	140	12.17	210.2	3.413
1.4	407.4	71.6	56.19	141.8	11.74	212	3.315
3.2	384.5	73.4	53.74	143.6	11.32	213.8	3.22
5	362.9	75.2	51.41	145.4	10.93	215.6	3.129
6.8	342.8	77	49.19	147.2	10.54	217.4	3.04
8.6	323.9	78.8	47.08	149	10.18	219.2	2.955
10.4	306.2	80.6	45.07	150.8	9.827	221	2.872
12.2	289.6	82.4	43.16	152.6	9.489	222.8	2.792
14	274	84.2	41.34	154.4	9.165	224.6	2.715
15.8	259.3	86	39.61	156.2	8.854	226.4	2.64
17.6	245.6	87.8	37.96	158	8.555	228.2	2.568
19.4	232.6	89.6	36.38	159.8	8.268	230	2.498
21.2	220.5	91.4	34.88	161.6	7.991	231.8	2.431
23	209	93.2	33.45	163.4	7.726	233.6	2.365
24.8	198.3	95	32.09	165.2	7.47	235.4	2.302
26.6	199.1	96.8	30.79	167	7.224	237.2	2.241
28.4	178.5	98.6	29.54	168.8	6.998	239	2.182
30.2	169.5	100.4	28.36	170.6	6.761	240.8	2.124
32	161	102.2	27.23	172.4	6.542	242.6	2.069
33.8	153	104	26.15	174.2	6.331	244.4	2.015
35.6	145.4	105.8	25.11	176	6.129	246.2	1.963
37.4	138.3	107.6	24.13	177.8	5.933	248	1.912
39.2	131.5	109.4	23.19	179.6	5.746	249.8	1.863
41	125.1	111.2	22.29	181.4	5.565	251.6	1.816
42.8	119.1	113	21.43	183.2	5.39	253.4	1.77
44.6	113.4	114.8	20.6	185	5.222	255.2	1.725
46.4	108	116.6	19.81	186.8	5.06	257	1.682
48.2	102.8	118.4	19.06	188.6	4.904	258.8	1.64

**Note: The information above is for reference only.**