

TC—Total Capacity of Outdoor Unit; PI—Power Input of Outdoor Unit																				
Connection Ratio	Outdoor Air Temperature (°F)		Indoor Air Temperature (°F DB)																	
			60.8			64.4			68.0			69.8			71.6			75.2		
			TC	PI	COP	TC	PI	COP	TC	PI	COP	TC	PI	COP	TC	PI	COP	TC	PI	COP
	°F DB	°F WB	kBtu/h	kW	W/W	kBtu/h	kW	W/W	kBtu/h	kW	W/W	kBtu/h	kW	W/W	kBtu/h	kW	W/W	kBtu/h	kW	W/W
135%	-22.0	-22.2	42.2	3.73	3.31	42.0	4.07	3.03	41.9	4.56	2.69	41.8	4.40	2.79	41.8	5.05	2.43	41.7	5.32	2.30
	-16.6	-16.8	43.5	3.96	3.22	43.3	4.29	2.96	43.2	4.71	2.69	43.1	4.65	2.72	43.0	5.15	2.45	43.0	5.45	2.31
	-12.6	-13.0	48.7	4.18	3.41	48.5	4.51	3.15	48.4	4.86	2.91	48.2	4.89	2.89	48.2	5.26	2.68	48.1	5.57	2.53
	-7.0	-7.6	52.9	4.40	3.52	52.7	4.72	3.27	52.6	5.01	3.08	52.4	5.13	2.99	52.4	5.36	2.86	52.3	5.69	2.70
	-3.6	-4.0	53.1	4.47	3.48	53.0	4.79	3.24	52.8	5.06	3.06	52.7	5.21	2.96	52.6	5.40	2.86	52.6	5.73	2.69
	-1.8	-2.2	53.6	4.54	3.46	53.5	4.86	3.22	53.4	5.10	3.07	53.4	5.29	2.96	53.2	5.43	2.87	53.0	5.77	2.70
	1.9	1.4	54.5	4.65	3.43	54.3	4.95	3.22	54.2	5.19	3.06	54.2	5.32	2.99	54.1	5.49	2.89	53.9	5.81	2.72
	7.3	5.0	55.4	4.75	3.42	55.3	5.03	3.22	55.1	5.25	3.08	55.2	5.40	3.00	55.0	5.56	2.90	54.9	5.83	2.76
	10.8	8.6	56.2	4.84	3.40	56.1	5.08	3.23	55.9	5.28	3.11	56.0	5.45	3.01	55.8	5.57	2.94	55.9	5.87	2.79
	14.4	12.2	57.2	4.91	3.41	57.0	5.15	3.25	56.9	5.33	3.13	56.9	5.46	3.05	57.0	5.60	2.98	56.8	5.86	2.84
	14.9	14.0	57.6	4.93	3.43	57.4	5.16	3.26	57.5	5.34	3.15	57.3	5.46	3.08	57.4	5.61	3.00	57.3	5.83	2.88
	16.7	15.6	58.1	4.96	3.43	58.0	5.18	3.28	57.9	5.34	3.18	57.9	5.47	3.10	57.7	5.58	3.03	57.8	5.84	2.90
	19.4	18.3	58.7	4.98	3.46	58.6	5.18	3.32	58.6	5.34	3.22	58.5	5.44	3.15	58.6	5.58	3.07	58.4	5.81	2.94
	23.0	21.9	63.4	5.30	3.51	63.3	5.40	3.43	63.3	5.66	3.27	63.2	5.77	3.21	63.0	5.88	3.14	62.9	6.09	3.03
	26.6	25.3	64.2	5.30	3.55	64.1	5.49	3.42	64.1	5.61	3.35	64.0	5.73	3.28	63.9	5.82	3.22	63.7	6.02	3.10
	32.0	30.7	65.6	5.26	3.66	65.5	5.41	3.55	65.3	5.51	3.47	65.4	5.61	3.42	65.2	5.71	3.35	65.3	5.89	3.25
	37.4	36.0	69.5	5.37	3.79	71.8	5.72	3.68	71.6	5.81	3.61	71.7	5.90	3.56	71.6	5.99	3.50	71.4	6.15	3.40
	41.0	39.4	80.1	6.05	3.88	88.9	6.90	3.78	84.3	6.63	3.73	81.1	6.49	3.66	77.9	6.32	3.61	72.7	6.07	3.51
	44.6	42.8	87.4	6.43	3.99	90.7	6.84	3.89	84.4	6.45	3.84	81.2	6.52	4.23	77.9	6.13	3.73	73.5	5.80	3.72
	48.2	46.2	87.5	6.25	4.10	90.8	6.64	4.00	84.5	6.25	3.96	81.2	6.10	3.90	78.6	5.92	3.89	73.5	5.45	3.95
	51.8	49.6	87.5	6.07	4.23	90.8	6.43	4.14	84.5	6.04	4.10	81.2	5.79	4.12	78.6	5.56	4.14	73.5	5.13	4.20
	55.4	53.2	89.3	5.99	4.37	90.8	6.22	4.28	84.5	5.66	4.37	81.2	5.42	4.39	78.6	5.22	4.41	73.5	4.82	4.47
	59.0	56.7	93.6	6.09	4.50	90.8	5.86	4.54	84.5	5.33	4.64	81.2	5.12	4.65	78.6	4.92	4.68	73.5	4.55	4.74
	64.4	62.2	93.6	5.77	4.76	90.5	5.56	4.77	84.4	5.05	4.89	81.3	4.86	4.90	78.6	4.65	4.95	73.5	4.32	4.99
	68.0	65.3	93.6	5.49	5.00	90.5	5.32	4.99	84.4	4.82	5.13	81.3	4.65	5.13	78.6	4.42	5.21	73.5	4.13	5.22
	75.2	68.9	93.6	5.25	5.22	90.5	5.11	5.19	84.4	4.64	5.33	81.3	4.47	5.33	78.6	4.22	5.46	73.5	3.98	5.42
120%	-22.0	-22.2	41.5	4.28	2.85	41.4	4.59	2.64	41.3	5.78	2.09	41.2	4.97	2.43	41.2	5.26	2.30	41.1	5.68	2.12
	-16.6	-16.8	42.8	4.47	2.81	42.7	4.78	2.62	42.6	5.68	2.20	42.5	5.16	2.42	42.5	5.40	2.30	42.4	5.80	2.14
	-12.6	-13.0	48.0	4.66	3.02	47.9	4.97	2.82	47.7	5.57	2.51	47.7	5.35	2.61	47.6	5.55	2.51	47.5	5.92	2.35
	-7.0	-7.6	52.5	4.85	3.18	52.4	5.14	2.99	52.2	5.47	2.80	52.2	5.52	2.77	52.1	5.69	2.68	52.0	6.03	2.53
	-3.6	-4.0	53.0	4.91	3.17	52.8	5.20	2.98	52.7	5.44	2.84	52.6	5.58	2.76	52.6	5.74	2.68	52.4	6.06	2.53
	-1.8	-2.2	53.5	4.97	3.15	53.3	5.26	2.97	53.1	5.40	2.88	53.2	5.64	2.76	53.0	5.79	2.69	52.9	6.10	2.54
	1.9	1.4	54.3	5.05	3.15	54.2	5.33	2.98	54.0	5.51	2.88	54.1	5.69	2.79	53.9	5.82	2.72	54.0	6.14	2.58
	7.3	5.0	55.3	5.13	3.16	55.1	5.38	3.00	55.1	5.58	2.89	55.0	5.72	2.82	55.1	5.87	2.75	54.9	6.14	2.62
	10.8	8.6	56.1	5.19	3.17	55.9	5.41	3.03	55.9	5.59	2.93	55.8	5.72	2.86	55.9	5.88	2.79	55.7	6.12	2.67
	14.4	12.2	57.0	5.23	3.19	56.9	5.45	3.06	56.9	5.61	2.98	56.9	5.75	2.90	56.8	5.86	2.84	56.7	6.12	2.72
	14.9	14.0	57.4	5.24	3.21	57.3	5.45	3.08	57.3	5.61	2.99	57.3	5.74	2.93	57.3	5.80	2.89	57.1	6.08	2.75
	16.7	15.6	58.0	5.26	3.23	57.9	5.48	3.10	57.9	5.60	3.03	57.7	5.72	2.96	57.8	5.85	2.89	57.6	6.08	2.78
	19.4	18.3	58.6	5.27	3.26	58.6	5.45	3.15	58.5	5.59	3.07	58.3	5.68	3.01	58.4	5.82	2.94	58.3	6.01	2.84
	23.0	21.9	63.3	5.58	3.33	63.1	5.77	3.21	63.0	5.89	3.13	63.0	6.00	3.08	63.1	6.12	3.02	63.0	6.32	2.92
	26.6	25.3	64.1	5.56	3.38	64.0	5.72	3.28	63.8	5.82	3.21	63.9	5.92	3.16	63.9	6.05	3.10	63.8	6.22	3.01
	32.0	30.7	65.5	5.48	3.50	65.3	5.62	3.41	65.3	5.79	3.31	65.2	5.80	3.30	65.3	5.91	3.24	65.2	6.06	3.15
	37.4	36.0	71.6	5.76	3.64	71.6	5.92	3.55	71.5	5.98	3.50	71.5	6.08	3.44	71.4	6.16	3.40	68.2	5.99	3.34
	41.0	39.4	88.9	6.96	3.74	83.7	6.72	3.65	77.8	6.31	3.61	74.8	6.16	3.56	72.9	6.09	3.51	68.2	5.62	3.55
	44.6	42.8	89.6	6.81	3.86	83.8	6.50	3.78	77.9	6.12	3.73	75.4	5.95	3.71	72.9	5.72	3.74	68.2	5.29	3.78
	48.2	46.2	89.7	6.62	3.97	83.8	6.32	3.89	77.9	5.82	3.93	75.4	5.59	3.95	72.9	5.38	3.97	68.2	4.98	4.01
	51.8	49.6	89.7	6.41	4.10	83.8	6.03	4.07	77.9	5.48	4.17	75.4	5.27	4.19	72.9	5.06	4.22	68.2	4.70	4.26
	55.4	53.2	89.7	6.12	4.29	83.8	5.66	4.34	77.9	5.14	4.45	75.4	4.95	4.47	72.9	4.76	4.49	68.2	4.42	4.52
	59.0	56.7	89.7	5.77	4.56	83.8	5.33	4.61	77.9	4.85	4.71	75.4	4.66	4.74	72.9	4.49	4.76	68.2	4.17	4.79
	64.4	62.2	89.7	5.45	4.83	83.7	5.04	4.87	78.0	4.61	4.96	75.4	4.42	5.00	72.9	4.25	5.02	68.1	3.95	5.05
	68.0	65.3	89.7	5.16	5.09	83.7	4.81	5.10	78.0	4.41	5.18	75.4	4.22	5.24	72.9	4.05	5.27	68.1	3.76	5.30
	75.2	68.9	89.7	4.91	5.35	83.7	4.61	5.32	78.0	4.25	5.38	75.4	4.04	5.46	72.9	3.89	5.49	68.1	3.61	5.53

TC—Total Capacity of Outdoor Unit; PI—Power Input of Outdoor Unit																				
Connection Ratio	Outdoor Air Temperature (°F)		Indoor Air Temperature (°F DB)																	
			60.8			64.4			68.0			69.8			71.6			75.2		
	°F DB	°F WB	kBtu/h	kW	W/W	kBtu/h	kW	W/W	kBtu/h	kW	W/W	kBtu/h	kW	W/W	kBtu/h	kW	W/W	kBtu/h	kW	W/W
110%	-22.0	-22.2	40.2	4.83	2.44	40.1	5.40	2.17	40.0	5.72	2.05	40.0	5.89	1.99	39.9	5.72	2.04	40.0	6.62	1.77
	-16.6	-16.8	43.5	4.99	2.55	43.3	5.47	2.32	43.2	5.75	2.20	43.3	5.91	2.14	43.1	5.84	2.17	43.2	6.56	1.93
	-12.6	-13.0	46.7	5.14	2.66	46.6	5.54	2.47	46.4	5.78	2.36	46.5	5.94	2.29	46.4	5.95	2.28	46.4	6.50	2.09
	-7.0	-7.6	51.3	5.29	2.84	51.1	5.60	2.68	51.0	5.81	2.57	51.0	5.96	2.51	50.9	6.06	2.46	50.9	6.45	2.31
	-3.6	-4.0	52.8	5.34	2.90	52.7	5.62	2.75	52.5	5.82	2.65	52.6	5.97	2.58	52.4	6.10	2.52	52.5	6.43	2.39
	-1.8	-2.2	53.3	5.40	2.90	53.1	5.64	2.76	53.0	5.83	2.67	53.0	5.98	2.60	52.9	6.14	2.53	52.8	6.41	2.42
	1.9	1.4	54.2	5.45	2.91	54.0	5.71	2.77	53.9	5.86	2.70	53.9	6.03	2.62	53.9	6.16	2.56	53.8	6.45	2.45
	7.3	5.0	55.1	5.50	2.93	55.0	5.75	2.80	54.8	5.90	2.72	54.9	6.04	2.66	54.9	6.18	2.61	54.8	6.43	2.49
	10.8	8.6	55.9	5.55	2.95	55.9	5.76	2.84	55.8	5.91	2.77	55.7	6.01	2.71	55.7	6.17	2.65	55.6	6.39	2.55
	14.4	12.2	56.9	5.56	3.00	56.7	5.77	2.88	56.8	5.89	2.83	56.6	6.02	2.76	56.7	6.14	2.71	56.5	6.34	2.61
	14.9	14.0	57.3	5.55	3.02	57.3	5.77	2.91	57.2	5.89	2.85	57.0	5.99	2.79	57.1	6.10	2.74	56.9	6.32	2.64
	16.7	15.6	57.8	5.56	3.05	57.7	5.76	2.94	57.7	5.87	2.88	57.6	5.96	2.83	57.6	6.10	2.77	57.5	6.28	2.68
	19.4	18.3	58.4	5.56	3.08	58.3	5.71	2.99	58.3	5.83	2.93	58.2	5.92	2.88	58.3	5.96	2.86	58.1	6.23	2.73
	23.0	21.9	63.1	5.86	3.16	63.0	6.04	3.06	62.8	6.13	3.00	62.9	6.24	2.96	63.0	6.06	3.04	61.1	6.37	2.81
	26.6	25.3	64.0	5.81	3.22	63.8	5.95	3.14	63.7	6.04	3.09	63.7	6.14	3.04	63.8	5.78	3.23	61.1	6.17	2.90
	32.0	30.7	65.3	5.71	3.36	65.3	5.84	3.28	65.2	5.92	3.23	65.1	5.99	3.19	67.0	6.00	3.27	62.0	5.86	3.10
	37.4	36.0	71.4	5.97	3.51	71.5	6.12	3.42	71.4	6.16	3.39	69.6	6.10	3.34	66.9	5.83	3.36	62.0	5.33	3.41
	41.0	39.4	82.2	6.67	3.62	76.8	6.35	3.54	71.5	5.91	3.54	68.7	5.66	3.56	67.0	5.49	3.57	62.0	5.02	3.62
	44.6	42.8	82.3	6.47	3.73	76.8	6.13	3.68	71.6	5.56	3.77	68.7	5.33	3.78	67.0	5.16	3.80	62.0	4.72	3.85
	48.2	46.2	82.4	6.26	3.86	76.9	5.76	3.91	71.6	5.24	4.01	68.8	5.02	4.02	67.0	4.86	4.04	62.0	4.45	4.08
	51.8	49.6	82.4	5.89	4.10	76.9	5.42	4.16	71.6	4.93	4.25	68.8	4.73	4.26	67.0	4.58	4.28	62.0	4.20	4.33
	55.4	53.2	82.4	5.52	4.37	76.9	5.09	4.43	71.6	4.64	4.52	68.8	4.45	4.53	67.0	4.31	4.55	62.0	3.96	4.59
	59.0	56.7	82.4	5.20	4.64	76.9	4.80	4.70	71.6	4.38	4.79	68.8	4.20	4.80	67.0	4.08	4.81	62.0	3.75	4.85
	64.4	62.2	82.3	4.92	4.90	77.0	4.55	4.96	71.7	4.00	5.25	68.8	3.99	5.06	67.0	3.89	5.05	62.0	3.57	5.10
	68.0	65.3	82.3	4.67	5.17	77.0	4.33	5.21	71.7	3.80	5.53	68.8	3.79	5.32	67.0	3.73	5.27	62.0	3.41	5.33
	75.2	68.9	82.3	4.46	5.41	77.0	4.13	5.46	71.7	3.62	5.81	68.8	3.63	5.55	67.0	3.59	5.47	62.0	3.28	5.54
100%	-22.0	-22.2	38.8	5.37	2.12	38.9	6.33	1.80	38.7	5.95	1.91	38.5	6.36	1.78	38.5	6.16	1.83	38.4	6.88	1.63
	-16.6	-16.8	42.0	5.49	2.24	42.1	6.24	1.98	41.9	6.02	2.04	41.7	6.34	1.93	41.7	6.25	1.96	41.6	6.84	1.78
	-12.6	-13.0	45.2	5.61	2.36	45.3	6.16	2.16	45.2	6.09	2.17	44.9	6.33	2.08	44.9	6.33	2.08	44.8	6.79	1.93
	-7.0	-7.6	50.4	5.73	2.58	50.5	6.07	2.44	50.3	6.15	2.40	50.1	6.32	2.32	50.0	6.42	2.29	49.9	6.74	2.17
	-3.6	-4.0	52.5	5.77	2.67	52.6	6.05	2.55	52.4	6.17	2.49	52.2	6.31	2.42	52.1	6.44	2.37	52.0	6.72	2.26
	-1.8	-2.2	53.0	5.81	2.67	52.8	6.02	2.57	52.8	6.19	2.50	52.6	6.31	2.44	52.5	6.47	2.38	52.4	6.71	2.29
	1.9	1.4	53.9	5.84	2.70	53.7	6.07	2.59	53.5	6.17	2.54	53.5	6.31	2.49	53.3	6.45	2.42	53.2	6.67	2.34
	7.3	5.0	54.8	5.86	2.74	54.6	6.08	2.63	54.6	6.19	2.58	54.4	6.33	2.52	54.2	6.42	2.47	54.0	6.66	2.38
	10.8	8.6	55.6	5.89	2.77	55.4	6.05	2.68	55.4	6.18	2.63	55.3	6.28	2.58	55.0	6.15	2.62	54.8	6.60	2.44
	14.4	12.2	56.5	5.87	2.82	56.3	6.05	2.73	56.3	6.14	2.69	56.2	6.23	2.64	55.8	6.33	2.59	54.8	6.41	2.51
	14.9	14.0	57.0	5.85	2.86	57.0	6.04	2.76	56.8	6.11	2.72	56.8	6.24	2.67	56.2	6.28	2.62	54.8	6.34	2.53
	16.7	15.6	57.4	5.84	2.88	57.2	5.99	2.80	57.2	6.09	2.75	57.0	6.17	2.71	56.6	6.26	2.65	54.8	6.24	2.58
	19.4	18.3	57.9	5.80	2.93	57.9	5.96	2.85	57.7	6.03	2.80	57.5	6.11	2.76	57.2	6.17	2.72	54.8	6.11	2.63
	23.0	21.9	62.0	6.05	3.01	61.8	6.20	2.92	61.8	6.27	2.89	61.7	6.37	2.84	60.6	6.35	2.80	56.9	6.12	2.73
	26.6	25.3	62.9	5.98	3.08	62.7	6.10	3.01	62.7	6.18	2.97	62.1	6.21	2.93	60.6	6.14	2.89	56.9	5.79	2.88
	32.0	30.7	64.1	5.84	3.22	63.9	5.93	3.16	63.9	6.00	3.12	62.7	5.90	3.11	60.6	5.67	3.13	56.9	5.26	3.17
	37.4	36.0	70.0	6.07	3.38	69.4	6.14	3.31	64.5	5.55	3.40	62.7	5.37	3.42	60.6	5.17	3.44	56.9	4.79	3.48
	41.0	39.4	74.3	6.24	3.49	69.4	5.77	3.53	64.5	5.22	3.62	62.7	5.05	3.63	60.6	4.87	3.65	56.9	4.52	3.69
	44.6	42.8	74.3	5.89	3.70	69.4	5.42	3.75	64.5	4.85	3.90	62.7	4.76	3.86	60.6	4.59	3.87	56.9	4.26	3.92
	48.2	46.2	74.3	5.53	3.94	69.4	5.10	3.99	64.5	4.61	4.10	62.7	4.49	4.09	60.6	4.32	4.11	56.9	4.02	4.15
	51.8	49.6	74.3	5.21	4.18	69.4	4.81	4.23	64.5	4.35	4.34	62.7	4.23	4.34	60.6	4.08	4.35	56.9	3.80	4.39
	55.4	53.2	74.3	4.89	4.45	69.4	4.52	4.50	64.5	4.10	4.61	62.7	3.99	4.60	60.6	3.85	4.61	56.9	3.59	4.65
	59.0	56.7	74.3	4.62	4.72	69.4	4.27	4.77	64.5	3.87	4.88	62.7	3.77	4.87	60.6	3.64	4.88	56.9	3.40	4.91
	64.4	62.2	74.3	4.35	5.01	69.5	4.07	5.00	64.5	3.75	5.04	62.7	3.58	5.13	60.6	3.45	5.16	56.9	3.24	5.16
	68.0	65.3	74.3	4.11	5.30	69.4	3.91	5.21	64.5	3.60	5.25	62.7	3.42	5.37	60.6	3.28	5.41	56.9	3.11	5.37
	75.2	68.9	74.3	3.88	5.61	69.4	3.78	5.39	64.5	3.46	5.46	62.6	3.29	5.58	60.6	3.16	5.63	56.9	3.01	5.55

TC—Total Capacity of Outdoor Unit; PI—Power Input of Outdoor Unit																				
Connection Ratio	Outdoor Air Temperature (°F)		Indoor Air Temperature (°F DB)																	
			60.8			64.4			68.0			69.8			71.6			75.2		
	°F DB	°F WB	kBtu/h	kW	W/W	kBtu/h	kW	W/W	kBtu/h	kW	W/W	kBtu/h	kW	W/W	kBtu/h	kW	W/W	kBtu/h	kW	W/W
90%	-22.0	-22.2	46.7	5.92	2.31	46.6	6.41	2.13	46.4	6.27	2.17	46.5	6.79	2.01	46.6	7.03	1.94	44.1	7.12	1.82
	-16.6	-16.8	48.0	6.01	2.34	47.9	6.41	2.19	47.7	6.35	2.20	47.8	6.76	2.07	47.9	6.98	2.01	45.4	7.00	1.90
	-12.6	-13.0	50.0	6.10	2.40	49.8	6.42	2.27	49.7	6.43	2.27	49.8	6.74	2.17	49.8	6.92	2.11	47.2	6.87	2.01
	-7.0	-7.6	51.9	6.18	2.46	51.8	6.43	2.36	51.6	6.50	2.33	51.7	6.71	2.26	51.8	6.86	2.21	49.0	6.75	2.13
	-3.6	-4.0	52.4	6.21	2.47	52.2	6.43	2.38	52.1	6.53	2.34	52.2	6.70	2.28	52.2	6.85	2.24	49.5	6.71	2.16
	-1.8	-2.2	52.8	6.24	2.48	52.7	6.44	2.40	52.5	6.55	2.35	52.6	6.69	2.30	52.7	6.83	2.26	49.5	6.68	2.17
	1.9	1.4	53.7	6.25	2.52	53.6	6.46	2.43	53.6	6.56	2.39	53.5	6.67	2.35	53.6	6.83	2.30	49.6	6.53	2.23
	7.3	5.0	54.6	6.25	2.56	54.5	6.45	2.48	54.5	6.54	2.45	54.4	6.61	2.42	54.3	6.76	2.35	49.7	6.38	2.28
	10.8	8.6	55.5	6.24	2.61	55.3	6.40	2.53	55.4	6.50	2.50	55.3	6.60	2.45	54.3	6.59	2.42	49.7	6.23	2.34
	14.4	12.2	56.5	6.21	2.67	56.4	6.36	2.60	56.3	6.43	2.56	56.4	6.55	2.52	54.4	6.42	2.48	49.8	6.06	2.41
	14.9	14.0	56.9	6.17	2.70	56.9	6.35	2.62	56.7	6.39	2.60	56.6	6.50	2.55	54.4	6.35	2.51	50.2	6.01	2.45
	16.7	15.6	57.2	6.15	2.73	57.1	6.28	2.66	57.1	6.37	2.63	56.6	6.40	2.59	54.4	6.24	2.55	50.8	5.97	2.49
	19.4	18.3	57.7	6.09	2.78	57.8	6.23	2.72	57.6	6.29	2.69	56.5	6.25	2.65	54.3	6.09	2.61	50.8	5.70	2.61
	23.0	21.9	61.9	6.33	2.87	61.8	6.47	2.80	58.3	6.15	2.78	56.2	6.00	2.74	54.3	5.81	2.74	50.8	5.37	2.77
	26.6	25.3	62.7	6.24	2.95	62.6	5.66	3.24	58.3	5.92	2.89	56.2	5.69	2.89	54.3	5.47	2.91	50.8	5.06	2.94
	32.0	30.7	64.0	6.04	3.10	62.6	5.28	3.47	58.3	5.38	3.18	56.2	5.17	3.18	54.3	4.97	3.20	50.8	4.60	3.23
	37.4	36.0	67.0	5.86	3.35	62.6	5.40	3.40	58.3	4.90	3.49	56.2	4.72	3.49	54.3	4.54	3.50	50.8	4.21	3.54
	41.0	39.4	67.0	5.51	3.57	62.6	5.08	3.61	58.3	4.63	3.70	56.2	4.45	3.70	54.3	4.29	3.71	50.8	3.97	3.75
	44.6	42.8	67.0	5.18	3.79	62.6	4.78	3.83	58.3	4.36	3.92	56.2	4.20	3.92	54.3	4.04	3.93	50.8	3.75	3.97
	48.2	46.2	67.0	4.88	4.02	62.6	4.50	4.07	58.3	4.11	4.16	56.2	3.97	4.15	54.3	3.82	4.16	50.8	3.55	4.20
	51.8	49.6	67.0	4.60	4.27	62.6	4.25	4.32	58.3	3.89	4.39	56.2	3.75	4.39	54.3	3.61	4.40	50.8	3.36	4.43
	55.4	53.2	67.0	4.33	4.54	62.6	4.01	4.58	58.3	3.67	4.66	56.2	3.54	4.65	54.3	3.41	4.66	50.8	3.17	4.69
	59.0	56.7	67.0	4.09	4.80	62.6	3.78	4.85	58.3	3.48	4.92	56.2	3.34	4.93	54.3	3.23	4.92	50.8	3.01	4.94
	64.4	62.2	67.0	3.86	5.08	62.6	3.58	5.13	58.4	3.30	5.18	56.1	3.15	5.22	54.3	3.07	5.19	50.8	2.86	5.20
	68.0	65.3	67.0	3.65	5.38	62.6	3.38	5.43	58.4	3.13	5.46	56.1	2.97	5.53	54.3	2.91	5.46	50.8	2.74	5.44
	75.2	68.9	67.0	3.45	5.70	62.7	3.19	5.75	58.4	2.97	5.75	56.1	2.81	5.86	54.3	2.77	5.75	50.8	2.61	5.70
80%	-22.0	-22.2	52.1	6.48	2.36	52.0	6.96	2.19	51.8	7.31	2.08	49.9	7.17	2.04	48.0	7.50	1.88	45.0	6.91	1.91
	-16.6	-16.8	52.1	6.53	2.34	52.0	6.93	2.20	51.8	7.19	2.11	49.9	7.05	2.07	48.0	7.24	1.94	45.0	6.76	1.95
	-12.6	-13.0	52.2	6.58	2.32	52.1	6.89	2.21	51.9	7.06	2.15	50.0	6.92	2.11	48.1	6.99	2.02	45.0	6.61	2.00
	-7.0	-7.6	52.2	6.64	2.31	52.1	6.86	2.22	51.9	6.95	2.19	50.0	6.80	2.15	48.1	6.75	2.09	45.0	6.47	2.04
	-3.6	-4.0	52.2	6.65	2.30	52.1	6.85	2.23	51.9	6.91	2.20	50.0	6.76	2.16	48.1	6.67	2.12	45.0	6.43	2.05
	-1.8	-2.2	52.7	6.67	2.32	52.5	6.84	2.25	52.0	6.87	2.22	50.0	6.72	2.18	48.2	6.59	2.14	45.0	6.38	2.07
	1.9	1.4	53.6	6.66	2.36	53.4	6.85	2.29	52.0	6.73	2.27	50.0	6.58	2.23	48.2	6.44	2.19	45.5	6.27	2.12
	7.3	5.0	54.5	6.63	2.41	54.3	6.80	2.34	52.1	6.58	2.32	50.1	6.42	2.29	48.3	6.32	2.24	45.5	6.11	2.18
	10.8	8.6	55.3	6.59	2.46	55.2	6.73	2.40	52.1	6.43	2.38	50.1	6.27	2.34	48.3	6.14	2.31	45.5	5.82	2.29
	14.4	12.2	56.2	6.52	2.53	56.1	6.65	2.47	52.2	6.25	2.45	50.2	6.09	2.42	48.4	5.93	2.39	45.5	5.50	2.42
	14.9	14.0	56.7	6.48	2.56	56.1	6.57	2.50	52.2	6.15	2.49	50.2	6.00	2.45	48.4	5.76	2.46	45.5	5.34	2.50
	16.7	15.6	57.1	6.45	2.59	56.1	6.47	2.54	52.2	6.07	2.52	50.2	5.85	2.52	48.4	5.61	2.53	45.5	5.20	2.56
	19.4	18.3	57.6	6.37	2.65	56.0	6.32	2.60	52.1	5.83	2.62	50.1	5.58	2.64	48.3	5.35	2.65	45.5	4.99	2.67
	23.0	21.9	59.7	5.69	3.08	55.7	6.02	2.71	51.8	5.44	2.79	50.2	5.25	2.80	48.3	5.03	2.81	45.5	4.68	2.85
	26.6	25.3	59.7	5.50	3.18	55.7	5.67	2.88	51.8	5.13	2.96	50.2	4.97	2.96	48.3	4.75	2.98	45.5	4.42	3.01
	32.0	30.7	59.7	5.60	3.13	55.7	5.15	3.17	51.8	4.67	3.25	50.2	4.51	3.26	48.3	4.33	3.27	45.5	4.03	3.30
	37.4	36.0	59.7	5.10	3.43	55.7	4.70	3.47	51.8	4.28	3.55	50.2	4.13	3.56	48.3	3.97	3.57	45.5	3.70	3.60
	41.0	39.4	59.7	4.80	3.65	55.7	4.43	3.68	51.8	4.04	3.76	50.2	3.90	3.77	48.3	3.75	3.78	45.5	3.50	3.81
	44.6	42.8	59.7	4.52	3.87	55.7	4.18	3.90	51.8	3.81	3.98	50.2	3.69	3.99	48.3	3.54	4.00	45.5	3.31	4.02
	48.2	46.2	59.7	4.27	4.10	55.7	3.94	4.14	51.8	3.62	4.19	50.2	3.48	4.22	48.3	3.35	4.22	45.5	3.14	4.25
	51.8	49.6	59.7	4.03	4.34	55.7	3.73	4.38	51.8	3.41	4.45	50.2	3.30	4.46	48.3	3.17	4.46	45.5	2.97	4.48
	55.4	53.2	59.7	3.80	4.61	55.7	3.52	4.64	51.8	3.23	4.70	50.2	3.12	4.72	48.3	3.00	4.72	45.5	2.81	4.74
	59.0	56.7	59.7	3.59	4.87	55.7	3.33	4.89	51.8	3.06	4.96	50.2	2.96	4.97	48.3	2.85	4.97	45.5	2.68	4.98
	64.4	62.2	59.8	3.43	5.10	55.7	3.17	5.15	51.8	2.92	5.21	50.1	2.81	5.23	48.3	2.70	5.24	45.5	2.55	5.22
	68.0	65.3	59.8	3.30	5.31	55.7	3.04	5.37	51.8	2.79	5.45	50.1	2.68	5.48	48.3	2.57	5.51	45.5	2.44	5.47
	75.2	68.9	59.8	3.20	5.47	55.7	2.94	5.55	51.8	2.67	5.68	50.1	2.56	5.73	48.3	2.46	5.76	45.5	2.33	5.71

TC—Total Capacity of Outdoor Unit; PI—Power Input of Outdoor Unit																				
Connection Ratio	Outdoor Air Temperature (°F)		Indoor Air Temperature (°F DB)																	
			60.8			64.4			68.0			69.8			71.6			75.2		
	°F DB	°F WB	TC kBtu/h	PI kW	COP W/W	TC kBtu/h	PI kW	COP W/W	TC kBtu/h	PI kW	COP W/W	TC kBtu/h	PI kW	COP W/W	TC kBtu/h	PI kW	COP W/W	TC kBtu/h	PI kW	COP W/W
70%	-22.0	-22.2	51.8	6.93	2.19	48.7	7.60	1.88	45.5	6.88	1.94	43.7	6.72	1.91	42.1	6.58	1.87	39.8	7.13	1.64
	-16.6	-16.8	51.8	6.97	2.18	48.7	7.37	1.94	45.5	6.74	1.98	43.7	6.58	1.95	42.1	6.45	1.91	39.8	6.77	1.73
	-12.6	-13.0	51.9	7.01	2.17	48.8	7.14	2.00	45.6	6.60	2.02	43.8	6.44	1.99	42.2	6.31	1.96	39.9	6.40	1.83
	-7.0	-7.6	51.9	7.05	2.15	48.8	6.92	2.07	45.6	6.46	2.07	43.8	6.31	2.04	42.2	6.17	2.00	39.9	6.03	1.94
	-3.6	-4.0	51.9	7.07	2.15	48.8	6.84	2.09	45.6	6.42	2.08	43.8	6.26	2.05	42.2	6.13	2.02	39.9	5.91	1.98
	-1.8	-2.2	52.3	7.08	2.17	48.9	6.77	2.12	45.6	6.37	2.10	43.8	6.21	2.07	42.2	6.08	2.04	39.9	5.79	2.02
	1.9	1.4	52.4	6.93	2.22	48.9	6.62	2.17	45.7	6.22	2.15	43.9	6.07	2.12	42.3	5.92	2.09	39.9	5.52	2.12
	7.3	5.0	52.5	6.77	2.27	49.0	6.49	2.22	45.8	6.07	2.21	44.0	5.76	2.24	42.4	5.64	2.20	39.9	5.25	2.23
	10.8	8.6	52.5	6.61	2.33	49.0	6.30	2.28	45.8	5.79	2.31	44.0	5.57	2.31	42.4	5.35	2.32	39.9	4.98	2.35
	14.4	12.2	52.6	6.42	2.40	49.1	6.06	2.37	45.8	5.49	2.45	44.0	5.28	2.45	42.4	5.06	2.46	39.9	4.71	2.48
	14.9	14.0	52.6	6.32	2.44	49.1	5.89	2.44	45.8	5.33	2.52	44.1	5.13	2.52	42.4	4.92	2.53	39.9	4.58	2.55
	16.7	15.6	52.6	6.23	2.48	49.1	5.73	2.51	45.8	5.19	2.59	44.1	4.99	2.59	42.4	4.80	2.59	39.9	4.47	2.62
	19.4	18.3	52.5	5.93	2.59	49.0	5.46	2.63	45.8	4.96	2.70	44.0	4.77	2.70	42.4	4.58	2.71	39.9	4.28	2.74
	23.0	21.9	52.2	5.54	2.76	48.7	5.11	2.79	45.5	4.65	2.87	43.7	4.47	2.87	42.4	4.32	2.88	39.9	4.04	2.90
	26.6	25.3	52.2	5.22	2.93	48.7	4.82	2.96	45.5	4.39	3.04	43.7	4.22	3.04	42.4	4.08	3.04	39.9	3.82	3.07
	32.0	30.7	52.2	4.75	3.22	48.7	4.41	3.24	45.5	4.01	3.33	43.7	3.86	3.32	42.4	3.74	3.32	39.9	3.50	3.34
	37.4	36.0	52.2	4.34	3.52	48.7	4.02	3.55	45.5	3.68	3.62	43.7	3.54	3.62	42.4	3.43	3.62	39.9	3.21	3.64
	41.0	39.4	52.2	4.10	3.73	48.7	3.79	3.77	45.5	3.48	3.83	43.7	3.35	3.82	42.4	3.25	3.82	39.9	3.04	3.84
	44.6	42.8	52.2	3.87	3.95	48.7	3.59	3.98	45.5	3.29	4.05	43.7	3.17	4.04	42.4	3.08	4.04	39.9	2.89	4.05
	48.2	46.2	52.2	3.66	4.18	48.7	3.39	4.21	45.5	3.12	4.27	43.7	3.01	4.26	42.4	2.92	4.26	39.9	2.74	4.27
	51.8	49.6	52.2	3.46	4.42	48.7	3.21	4.45	45.5	2.96	4.50	43.7	2.85	4.49	42.4	2.77	4.49	39.9	2.60	4.50
	55.4	53.2	52.2	3.27	4.67	48.7	3.04	4.70	45.5	2.80	4.76	43.7	2.71	4.73	42.4	2.62	4.74	39.9	2.47	4.73
	59.0	56.7	52.2	3.10	4.93	48.7	2.88	4.95	45.5	2.66	5.01	43.7	2.57	4.98	42.4	2.49	4.98	39.9	2.35	4.97
	64.4	62.2	52.2	2.94	5.20	48.7	2.74	5.21	45.5	2.53	5.26	43.6	2.45	5.23	42.4	2.38	5.22	39.9	2.25	5.20
	68.0	65.3	52.2	2.80	5.46	48.7	2.61	5.47	45.5	2.42	5.52	43.6	2.34	5.47	42.4	2.27	5.46	39.9	2.16	5.42
	75.2	68.9	52.2	2.68	5.71	48.7	2.49	5.73	45.5	2.32	5.74	43.6	2.24	5.70	42.4	2.19	5.67	39.9	2.08	5.62
60%	-22.0	-22.2	44.8	7.03	1.87	42.0	7.07	1.74	38.9	6.85	1.67	37.5	6.57	1.67	36.6	6.48	1.65	34.1	5.95	1.68
	-16.6	-16.8	44.8	6.88	1.91	42.0	6.82	1.80	38.9	6.49	1.76	37.5	6.23	1.77	36.6	6.12	1.75	34.1	5.62	1.78
	-12.6	-13.0	44.9	6.72	1.96	42.1	6.57	1.88	39.0	6.13	1.87	37.6	5.89	1.87	36.7	5.76	1.87	34.2	5.30	1.89
	-7.0	-7.6	44.9	6.57	2.00	42.1	6.34	1.95	39.0	5.79	1.97	37.6	5.57	1.98	36.7	5.41	1.98	34.2	4.99	2.01
	-3.6	-4.0	44.9	6.53	2.02	42.1	6.26	1.97	39.0	5.68	2.01	37.6	5.46	2.02	36.7	5.30	2.03	34.2	4.88	2.05
	-1.8	-2.2	45.0	6.48	2.03	42.1	6.18	2.00	39.0	5.56	2.06	37.7	5.35	2.06	36.7	5.18	2.07	34.2	4.78	2.10
	1.9	1.4	45.0	6.32	2.09	42.1	5.93	2.08	39.1	5.32	2.15	37.7	5.12	2.16	36.7	4.95	2.17	34.2	4.58	2.19
	7.3	5.0	45.1	6.11	2.16	42.2	5.64	2.19	39.2	5.07	2.26	37.8	4.88	2.27	36.7	4.72	2.28	34.2	4.36	2.30
	10.8	8.6	45.1	5.79	2.28	42.2	5.34	2.32	39.2	4.81	2.39	37.8	4.63	2.39	36.7	4.48	2.40	34.2	4.14	2.42
	14.4	12.2	45.2	5.47	2.42	42.3	5.06	2.45	39.2	4.57	2.52	37.8	4.39	2.53	36.7	4.24	2.53	34.2	3.93	2.55
	14.9	14.0	45.2	5.32	2.49	42.3	4.92	2.52	39.2	4.44	2.59	37.9	4.28	2.59	36.7	4.13	2.60	34.2	3.82	2.62
	16.7	15.6	45.2	5.18	2.55	42.3	4.80	2.58	39.2	4.33	2.65	37.9	4.17	2.66	36.7	4.03	2.67	34.2	3.73	2.69
	19.4	18.3	45.1	4.95	2.67	42.2	4.58	2.70	39.2	4.14	2.77	37.8	3.99	2.77	36.7	3.86	2.78	34.2	3.58	2.80
	23.0	21.9	44.8	4.63	2.84	42.0	4.29	2.87	38.9	3.89	2.93	37.6	3.75	2.94	36.7	3.65	2.95	34.2	3.39	2.96
	26.6	25.3	44.8	4.37	3.00	42.0	4.06	3.03	38.9	3.69	3.09	37.6	3.55	3.10	36.7	3.45	3.11	34.2	3.21	3.13
	32.0	30.7	44.8	3.99	3.29	42.0	3.71	3.31	38.9	3.38	3.38	37.6	3.26	3.38	36.7	3.17	3.39	34.2	2.95	3.40
	37.4	36.0	44.8	3.66	3.59	42.0	3.41	3.61	38.9	3.11	3.67	37.6	3.00	3.67	36.7	2.93	3.67	34.2	2.72	3.69
	41.0	39.4	44.8	3.46	3.79	42.0	3.23	3.81	38.9	2.95	3.87	37.6	2.84	3.87	36.7	2.77	3.88	34.2	2.59	3.88
	44.6	42.8	44.8	3.28	4.01	42.0	3.06	4.03	38.9	2.79	4.09	37.6	2.70	4.08	36.7	2.64	4.07	34.2	2.46	4.08
	48.2	46.2	44.8	3.11	4.23	42.0	2.90	4.25	38.9	2.65	4.30	37.6	2.56	4.29	36.7	2.50	4.30	34.2	2.34	4.29
	51.8	49.6	44.8	2.95	4.46	42.0	2.75	4.47	38.9	2.52	4.52	37.6	2.44	4.52	36.7	2.38	4.52	34.2	2.23	4.50
	55.4	53.2	44.8	2.79	4.71	42.0	2.61	4.72	38.9	2.40	4.76	37.6	2.32	4.75	36.7	2.26	4.75	34.2	2.12	4.73
	59.0	56.7	44.8	2.65	4.95	42.0	2.48	4.97	38.9	2.28	5.00	37.6	2.21	4.99	36.7	2.16	4.98	34.2	2.02	4.96
	64.4	62.2	44.9	2.54	5.18	42.0	2.36	5.22	38.9	2.18	5.24	37.6	2.11	5.22	36.7	2.07	5.19	34.2	1.94	5.18
	68.0	65.3	44.7	2.43	5.41	42.0	2.25	5.46	38.9	2.09	5.46	37.6	2.03	5.43	36.7	1.99	5.40	34.2	1.86	5.38
	75.2	68.9	44.7	2.33	5.62	42.0	2.16	5.69	38.9	2.01	5.67	37.6	1.96	5.62	36.7	1.93	5.58	34.2	1.80	5.57

TC—Total Capacity of Outdoor Unit; PI—Power Input of Outdoor Unit																				
Connection Ratio	Outdoor Air Temperature (°F)		Indoor Air Temperature (°F DB)																	
			60.8			64.4			68.0			69.8			71.6			75.2		
	°F DB	°F WB	TC kBtu/h	PI kW	COP W/W	TC kBtu/h	PI kW	COP W/W	TC kBtu/h	PI kW	COP W/W	TC kBtu/h	PI kW	COP W/W	TC kBtu/h	PI kW	COP W/W	TC kBtu/h	PI kW	COP W/W
50%	-22.0	-22.2	37.4	6.67	1.64	35.0	6.10	1.68	32.5	5.42	1.76	31.2	5.32	1.72	30.4	5.20	1.71	28.4	4.76	1.75
	-16.6	-16.8	37.4	6.31	1.74	35.0	5.78	1.77	32.5	5.16	1.85	31.2	5.04	1.81	30.4	4.92	1.81	28.4	4.52	1.84
	-12.6	-13.0	37.5	5.95	1.85	35.1	5.46	1.88	32.6	4.90	1.95	31.3	4.75	1.93	30.5	4.64	1.93	28.5	4.27	1.95
	-7.0	-7.6	37.5	5.60	1.96	35.1	5.16	1.99	32.6	4.65	2.06	31.3	4.48	2.04	30.5	4.37	2.05	28.5	4.04	2.07
	-3.6	-4.0	37.5	5.49	2.00	35.1	5.06	2.03	32.6	4.56	2.10	31.3	4.39	2.09	30.5	4.28	2.09	28.5	3.96	2.11
	-1.8	-2.2	37.6	5.38	2.05	35.1	4.96	2.07	32.7	4.48	2.14	31.3	4.30	2.13	30.5	4.19	2.14	28.5	3.88	2.15
	1.9	1.4	37.6	5.14	2.15	35.2	4.74	2.17	32.7	4.29	2.24	31.3	4.12	2.23	30.5	4.01	2.23	28.5	3.72	2.24
	7.3	5.0	37.7	4.90	2.25	35.2	4.53	2.28	32.8	4.10	2.35	31.4	3.94	2.33	30.5	3.83	2.34	28.5	3.55	2.35
	10.8	8.6	37.7	4.65	2.37	35.2	4.31	2.40	32.8	3.90	2.46	31.4	3.75	2.45	30.5	3.64	2.45	28.5	3.39	2.46
	14.4	12.2	37.7	4.41	2.51	35.3	4.08	2.53	32.8	3.71	2.59	31.4	3.57	2.58	30.7	3.49	2.58	28.5	3.22	2.59
	14.9	14.0	37.8	4.29	2.58	35.3	3.97	2.60	32.8	3.62	2.66	31.4	3.48	2.65	30.7	3.40	2.65	28.5	3.13	2.66
	16.7	15.6	37.8	4.19	2.64	35.3	3.88	2.67	32.8	3.53	2.73	31.4	3.40	2.71	30.7	3.32	2.71	28.5	3.06	2.72
	19.4	18.3	37.7	4.00	2.76	35.2	3.73	2.77	32.8	3.38	2.84	31.4	3.26	2.82	30.7	3.19	2.82	28.5	2.95	2.83
	23.0	21.9	37.5	3.76	2.92	35.0	3.49	2.94	32.6	3.18	3.00	31.2	3.07	2.98	30.7	3.02	2.98	28.5	2.79	2.99
	26.6	25.3	37.5	3.56	3.09	35.0	3.31	3.10	32.6	3.02	3.16	31.2	2.91	3.14	30.7	2.86	3.14	28.5	2.65	3.14
	32.0	30.7	37.5	3.26	3.36	35.0	3.04	3.38	32.6	2.78	3.43	31.2	2.68	3.41	30.7	2.64	3.40	28.5	2.45	3.40
	37.4	36.0	37.5	3.01	3.65	35.0	2.80	3.67	32.6	2.57	3.72	31.2	2.48	3.69	30.7	2.45	3.68	28.5	2.27	3.67
	41.0	39.4	37.5	2.85	3.85	35.0	2.66	3.87	32.6	2.44	3.91	31.2	2.36	3.88	30.7	2.33	3.87	28.5	2.16	3.86
	44.6	42.8	37.5	2.71	4.05	35.0	2.52	4.07	32.6	2.33	4.11	31.2	2.24	4.08	30.7	2.21	4.06	28.5	2.06	4.04
	48.2	46.2	37.5	2.57	4.27	35.0	2.40	4.28	32.6	2.21	4.32	31.2	2.14	4.27	30.7	2.11	4.27	28.5	1.97	4.24
	51.8	49.6	37.5	2.44	4.49	35.0	2.28	4.50	32.6	2.11	4.53	31.2	2.04	4.49	30.7	2.01	4.47	28.5	1.87	4.45
	55.4	53.2	37.5	2.32	4.73	35.0	2.17	4.73	32.6	2.01	4.76	31.2	1.94	4.71	30.7	1.91	4.70	28.5	1.79	4.66
	59.0	56.7	37.5	2.21	4.97	35.0	2.07	4.96	32.6	1.92	4.98	31.2	1.85	4.94	30.7	1.83	4.92	28.5	1.71	4.89
	64.4	62.2	37.5	2.11	5.22	34.8	1.97	5.19	32.6	1.84	5.19	31.2	1.78	5.15	30.7	1.75	5.14	28.5	1.63	5.13
	68.0	65.3	37.4	2.00	5.48	34.8	1.88	5.42	32.6	1.77	5.40	31.2	1.71	5.34	30.7	1.68	5.36	28.5	1.56	5.36
	75.2	68.9	37.4	1.91	5.74	34.8	1.80	5.66	32.6	1.65	5.80	31.2	1.65	5.53	30.7	1.61	5.58	28.5	1.49	5.60