



Engineering Data

ED 18528-1

Group: **WSHP**

Document PN: **ED 18528**

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Daikin Air Source Heat Pump Self-Contained Classroom Unit Ventilators

Model AEQ with R-410A Refrigerant – Capacity Data

Size 024 (1000 SCFM) – 2nd Stage High Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
20	65/55	Operation Not Recommended				12,400	1.701	2.13
	70/59					12,100	1.779	1.99
	75/63					11,800	1.857	1.86
	80/67					11,600	1.936	1.75
	85/71					11,300	2.014	1.64
30	65/55					15,300	1.751	2.56
	70/59					15,000	1.829	2.40
	75/63					14,700	1.908	2.26
	80/67					14,500	1.986	2.14
	85/71					14,200	2.064	2.01
40	65/55	20,700	15,900	1.334	15.5	18,000	1.800	2.93
	70/59	22,200	16,900	1.354	16.4	17,700	1.879	2.76
	75/63	23,800	17,900	1.374	17.3	17,500	1.957	2.62
	80/67	25,300	18,900	1.394	18.1	17,200	2.035	2.47
	85/71	26,800	19,900	1.414	19.0	16,900	2.114	2.34
50	65/55	21,400	15,700	1.424	15.0	20,500	1.849	3.25
	70/59	23,000	16,700	1.445	15.9	20,200	1.927	3.07
	75/63	24,500	17,700	1.465	16.7	20,000	2.006	2.92
	80/67	26,100	18,700	1.485	17.6	19,700	2.084	2.77
	85/71	27,600	19,600	1.505	18.3	19,500	2.162	2.64
60	65/55	21,500	15,400	1.537	14.0	22,800	1.897	3.52
	70/59	23,100	16,400	1.557	14.8	22,600	1.975	3.35
	75/63	24,600	17,300	1.577	15.6	22,300	2.053	3.18
	80/67	26,100	18,300	1.598	16.3	22,100	2.132	3.04
	85/71	27,700	19,300	1.618	17.1	21,800	2.210	2.89

Size 024 (1000 SCFM) – 2nd Stage High Fan (Continued)

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
70	65/55	20,900	14,900	1.672	12.5	25,000	1.944	3.77
	70/59	22,400	15,900	1.692	13.2	24,700	2.022	3.58
	75/63	24,000	16,900	1.712	14.0	24,500	2.101	3.41
	80/67	25,500	17,900	1.733	14.7	24,200	2.179	3.25
	85/71	27,100	18,900	1.753	15.5	23,900	2.257	3.10
80	65/55	19,600	14,400	1.829	10.7	27,000	1.990	3.97
	70/59	21,200	15,400	1.849	11.5	26,700	2.069	3.78
	75/63	22,700	16,400	1.870	12.1	26,400	2.147	3.60
	80/67	24,200	17,400	1.890	12.8	26,200	2.225	3.45
	85/71	25,800	18,400	1.910	13.5	25,900	2.304	3.29
90	65/55	17,600	13,800	2.009	8.8	28,700	2.036	4.13
	70/59	19,200	14,800	2.029	9.5	28,500	2.114	3.95
	75/63	20,700	15,800	2.049	10.1	28,200	2.192	3.77
	80/67	22,200	16,800	2.069	10.7	28,000	2.271	3.61
	85/71	23,800	17,700	2.089	11.4	27,700	2.349	3.45
100	65/55	15,000	13,100	2.210	6.8	Operation Not Recommended		
	70/59	16,500	14,000	2.230	7.4			
	75/63	18,000	15,000	2.250	8.0			
	80/67	19,600	16,000	2.270	8.6			
	85/71	21,100	17,000	2.291	9.2			
110	65/55	11,600	11,600	2.434	4.8			
	70/59	13,100	13,100	2.454	5.3			
	75/63	14,700	14,200	2.474	5.9			
	80/67	16,200	15,200	2.494	6.5			
	85/71	17,800	16,200	2.514	7.1			
115	65/55	9,700	9,700	2.554	3.8			
	70/59	11,200	11,200	2.574	4.4			
	75/63	12,700	12,700	2.594	4.9			
	80/67	14,300	14,300	2.614	5.5			
	85/71	15,800	15,700	2.634	6.0			

Note: Capacity Data at Full Load

Legend: Btuh = British Thermal Units per Hour

EER = Energy Efficiency Ratio

kW = Kilowatt

DB = Dry Bulb

WB = Wet Bulb

Size 024 (750 SCFM) – 1st Stage Medium Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating						
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP				
20	65/55	Operation Not Recommended				9,200	1.346	2.00				
	70/59					9,100	1.414	1.88				
	75/63					8,900	1.483	1.76				
	80/67					8,700	1.551	1.64				
	85/71					8,500	1.620	1.54				
30	65/55					Operation Not Recommended				11,700	1.376	2.49
	70/59									11,500	1.444	2.33
	75/63									11,300	1.513	2.19
	80/67									11,200	1.581	2.07
	85/71									11,000	1.650	1.95
40	65/55	18,800	13,500	1.007	18.7					13,900	1.400	2.91
	70/59	19,900	14,300	0.995	20.0					13,800	1.468	2.75
	75/63	21,100	15,100	0.982	21.5					13,600	1.537	2.59
	80/67	22,300	15,900	0.970	23.0					13,400	1.605	2.44
	85/71	23,400	16,700	0.957	24.5					13,300	1.674	2.33
50	65/55	17,700	12,600	1.073	16.5	16,000	1.419	3.30				
	70/59	18,800	13,400	1.060	17.7	15,800	1.487	3.11				
	75/63	20,000	14,200	1.047	19.1	15,600	1.556	2.94				
	80/67	21,200	15,000	1.035	20.5	15,500	1.624	2.79				
	85/71	22,300	15,800	1.022	21.8	15,300	1.693	2.65				
60	65/55	16,500	11,800	1.159	14.2	17,800	1.433	3.64				
	70/59	17,700	12,600	1.147	15.4	17,700	1.502	3.45				
	75/63	18,800	13,400	1.134	16.6	17,500	1.570	3.26				
	80/67	20,000	14,200	1.121	17.8	17,300	1.639	3.09				
	85/71	21,200	15,000	1.109	19.1	17,100	1.707	2.93				
70	65/55	15,300	11,100	1.267	12.1	19,500	1.444	3.95				
	70/59	16,500	11,900	1.254	13.2	19,300	1.513	3.74				
	75/63	17,600	12,700	1.242	14.2	19,100	1.581	3.54				
	80/67	18,800	13,500	1.229	15.3	18,900	1.650	3.35				
	85/71	20,000	14,300	1.217	16.4	18,800	1.718	3.20				
80	65/55	14,100	10,500	1.396	10.1	20,900	1.453	4.21				
	70/59	15,200	11,300	1.384	11.0	20,700	1.521	3.98				
	75/63	16,400	12,100	1.371	12.0	20,600	1.590	3.79				
	80/67	17,600	12,900	1.359	13.0	20,400	1.658	3.60				
	85/71	18,700	13,700	1.346	13.9	20,200	1.727	3.42				
90	65/55	12,700	10,000	1.547	8.2	22,100	1.460	4.43				
	70/59	13,900	10,800	1.534	9.1	22,000	1.528	4.22				
	75/63	15,100	11,600	1.522	9.9	21,800	1.597	4.00				
	80/67	16,200	12,400	1.509	10.7	21,600	1.665	3.80				
	85/71	17,400	13,200	1.497	11.6	21,400	1.734	3.61				

Size 024 (750 SCFM) – 1st Stage Medium Fan (Continued)

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
100	65/55	11,400	9,500	1.719	6.6	Operation Not Recommended		
	70/59	12,500	10,300	1.706	7.3			
	75/63	13,700	11,200	1.694	8.1			
	80/67	14,900	12,000	1.681	8.9			
	85/71	16,100	12,800	1.668	9.7			
110	65/55	10,000	9,200	1.912	5.2			
	70/59	11,100	10,000	1.899	5.8			
	75/63	12,300	10,800	1.887	6.5			
	80/67	13,500	11,600	1.874	7.2			
	85/71	14,600	12,400	1.862	7.8			
115	65/55	9,200	9,100	2.016	4.6			
	70/59	10,400	9,900	2.004	5.2			
	75/63	11,600	10,700	1.991	5.8			
	80/67	12,700	11,500	1.979	6.4			
	85/71	13,900	12,300	1.966	7.1			

Note: Capacity Data at Full Load

Legend: Btuh = British Thermal Units per Hour
 EER = Energy Efficiency Ratio
 kW = Kilowatt

DB = Dry Bulb
 WB = Wet Bulb

Size 024 (650 SCFM) – 1st Stage Low Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
20	65/55	Operation Not Recommended				9,100	1.371	1.94
	70/59					8,900	1.441	1.81
	75/63					8,700	1.511	1.69
	80/67					8,600	1.581	1.59
	85/71					8,400	1.651	1.49
30	65/55					11,500	1.402	2.40
	70/59					11,300	1.472	2.25
	75/63					11,200	1.542	2.13
	80/67					11,000	1.611	2.00
	85/71					10,800	1.681	1.88
40	65/55	18,300	12,500	0.967	18.9	13,700	1.426	2.81
	70/59	19,500	13,200	0.955	20.4	13,500	1.496	2.64
	75/63	20,600	13,900	0.943	21.8	13,400	1.566	2.51
	80/67	21,700	14,700	0.931	23.3	13,200	1.636	2.36
	85/71	22,900	15,400	0.919	24.9	13,000	1.706	2.23
50	65/55	17,300	11,600	1.030	16.8	15,700	1.446	3.18
	70/59	18,400	12,400	1.018	18.1	15,600	1.515	3.02
	75/63	19,500	13,100	1.006	19.4	15,400	1.585	2.84
	80/67	20,700	13,900	0.994	20.8	15,200	1.655	2.69
	85/71	21,800	14,600	0.982	22.2	15,000	1.725	2.55
60	65/55	16,100	10,900	1.113	14.5	17,500	1.460	3.51
	70/59	17,300	11,600	1.101	15.7	17,400	1.530	3.33
	75/63	18,400	12,400	1.089	16.9	17,200	1.600	3.15
	80/67	19,600	13,100	1.077	18.2	17,000	1.670	2.98
	85/71	20,700	13,900	1.065	19.4	16,900	1.740	2.84
70	65/55	15,000	10,200	1.217	12.3	19,100	1.472	3.80
	70/59	16,100	11,000	1.205	13.4	19,000	1.542	3.61
	75/63	17,200	11,700	1.193	14.4	18,800	1.611	3.42
	80/67	18,400	12,500	1.181	15.6	18,600	1.681	3.24
	85/71	19,500	13,200	1.169	16.7	18,500	1.751	3.09
80	65/55	13,700	9,700	1.341	10.2	20,500	1.480	4.06
	70/59	14,900	10,400	1.329	11.2	20,400	1.550	3.85
	75/63	16,000	11,200	1.317	12.1	20,200	1.620	3.65
	80/67	17,200	11,900	1.305	13.2	20,000	1.690	3.47
	85/71	18,300	12,600	1.293	14.2	19,900	1.760	3.31
90	65/55	12,400	9,200	1.486	8.3	21,800	1.488	4.29
	70/59	13,600	9,900	1.473	9.2	21,600	1.557	4.06
	75/63	14,700	10,700	1.461	10.1	21,400	1.627	3.85
	80/67	15,900	11,400	1.449	11.0	21,200	1.697	3.66
	85/71	17,000	12,200	1.437	11.8	21,100	1.767	3.50

Size 024 (650 SCFM) – 1st Stage Low Fan (Continued)

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
100	65/55	11,100	8,800	1.651	6.7	Operation Not Recommended		
	70/59	12,300	9,500	1.639	7.5			
	75/63	13,400	10,300	1.626	8.2			
	80/67	14,500	11,000	1.614	9.0			
	85/71	15,700	11,800	1.602	9.8			
110	65/55	9,700	8,500	1.836	5.3			
	70/59	10,900	9,200	1.824	6.0			
	75/63	12,000	10,000	1.812	6.6			
	80/67	13,200	10,700	1.800	7.3			
	85/71	14,300	11,500	1.788	8.0			
115	65/55	9,000	8,400	1.937	4.6			
	70/59	10,200	9,100	1.924	5.3			
	75/63	11,300	9,900	1.912	5.9			
	80/67	12,400	10,600	1.900	6.5			
	85/71	13,600	11,400	1.888	7.2			

Note: Capacity Data at Full Load

Legend: Btuh = British Thermal Units per Hour

EER = Energy Efficiency Ratio

kW = Kilowatt

DB = Dry Bulb

WB = Wet Bulb

Size 036 (1250 SCFM) – 2nd Stage High Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
20	65/55	Operation Not Recommended				25,200	3.408	2.17
	70/59					24,900	3.581	2.04
	75/63					24,600	3.754	1.92
	80/67					24,300	3.927	1.81
	85/71					24,000	4.101	1.71
30	65/55					29,700	3.542	2.46
	70/59					29,400	3.715	2.32
	75/63					29,100	3.888	2.19
	80/67					28,800	4.061	2.08
	85/71					28,500	4.234	1.97
40	65/55	40,300	28,800	1.974	20.4	33,800	3.666	2.70
	70/59	44,600	30,300	1.909	23.4	33,500	3.839	2.56
	75/63	48,800	31,800	1.844	26.5	33,200	4.012	2.42
	80/67	53,100	33,200	1.779	29.8	32,900	4.185	2.30
	85/71	57,400	34,700	1.714	33.5	32,600	4.358	2.19
50	65/55	38,400	27,400	2.368	16.2	37,500	3.780	2.90
	70/59	42,600	28,900	2.303	18.5	37,200	3.954	2.75
	75/63	46,900	30,300	2.238	21.0	36,900	4.127	2.62
	80/67	51,200	31,800	2.173	23.6	36,600	4.300	2.49
	85/71	55,500	33,300	2.108	26.3	36,300	4.473	2.38
60	65/55	36,200	26,000	2.759	13.1	40,800	3.885	3.08
	70/59	40,500	27,500	2.694	15.0	40,500	4.058	2.92
	75/63	44,800	28,900	2.629	17.0	40,200	4.232	2.78
	80/67	49,100	30,400	2.564	19.1	39,900	4.405	2.65
	85/71	53,400	31,900	2.499	21.4	39,600	4.578	2.53
70	65/55	33,900	24,600	3.146	10.8	43,700	3.980	3.22
	70/59	38,200	26,100	3.081	12.4	43,400	4.154	3.06
	75/63	42,500	27,600	3.016	14.1	43,100	4.327	2.92
	80/67	46,800	29,000	2.951	15.9	42,800	4.500	2.78
	85/71	51,000	30,500	2.886	17.7	42,500	4.673	2.66
80	65/55	31,400	23,400	3.529	8.9	46,200	4.066	3.33
	70/59	35,600	24,800	3.464	10.3	46,000	4.239	3.18
	75/63	39,900	26,300	3.399	11.7	45,700	4.412	3.03
	80/67	44,200	27,700	3.334	13.3	45,400	4.585	2.90
	85/71	48,500	29,200	3.269	14.8	45,100	4.759	2.77
90	65/55	28,600	22,100	3.909	7.3	48,400	4.142	3.42
	70/59	32,900	23,600	3.844	8.6	48,100	4.315	3.26
	75/63	37,200	25,000	3.779	9.8	47,800	4.488	3.12
	80/67	41,500	26,500	3.714	11.2	47,500	4.661	2.98
	85/71	45,700	28,000	3.649	12.5	47,200	4.835	2.86

Size 036 (1250 SCFM) – 2nd Stage High Fan (Continued)

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
100	65/55	25,600	20,900	4.285	6.0	Operation Not Recommended		
	70/59	29,900	22,400	4.220	7.1			
	75/63	34,200	23,800	4.155	8.2			
	80/67	38,500	25,300	4.090	9.4			
	85/71	42,800	26,800	4.025	10.6			
110	65/55	22,500	19,800	4.658	4.8			
	70/59	26,700	21,200	4.593	5.8			
	75/63	31,000	22,700	4.528	6.8			
	80/67	35,300	24,200	4.463	7.9			
	85/71	39,600	25,600	4.398	9.0			
115	65/55	20,800	19,200	4.843	4.3			
	70/59	25,100	20,700	4.778	5.3			
	75/63	29,400	22,200	4.713	6.2			
	80/67	33,600	23,600	4.648	7.2			
	85/71	37,900	25,100	4.583	8.3			

Note: Capacity Data at Full Load

Legend: Btuh = British Thermal Units per Hour
 EER = Energy Efficiency Ratio
 kW = Kilowatt

DB = Dry Bulb
 WB = Wet Bulb

Size 036 (1000 SCFM) – 1st Stage Medium Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
20	65/55	Operation Not Recommended				13,600	2.721	1.46
	70/59					13,200	2.842	1.36
	75/63					12,900	2.963	1.27
	80/67					12,500	3.084	1.19
	85/71					12,200	3.205	1.11
30	65/55					18,300	2.824	1.90
	70/59					17,900	2.945	1.78
	75/63					17,600	3.066	1.68
	80/67					17,200	3.186	1.58
	85/71					16,900	3.307	1.50
40	65/55	32,900	20,100	0.688	47.8	22,500	2.904	2.27
	70/59	35,300	21,000	0.675	52.3	22,100	3.025	2.14
	75/63	37,700	21,900	0.661	57.0	21,800	3.145	2.03
	80/67	40,100	22,800	0.647	62.0	21,400	3.266	1.92
	85/71	42,400	23,800	0.634	66.9	21,100	3.387	1.82
50	65/55	31,000	19,500	1.221	25.4	26,200	2.964	2.59
	70/59	33,300	20,400	1.208	27.6	25,800	3.085	2.45
	75/63	35,700	21,300	1.194	29.9	25,500	3.206	2.33
	80/67	38,100	22,300	1.180	32.3	25,100	3.327	2.21
	85/71	40,500	23,200	1.166	34.7	24,800	3.447	2.11
60	65/55	28,900	18,800	1.710	16.9	29,400	3.008	2.86
	70/59	31,300	19,700	1.696	18.5	29,000	3.129	2.71
	75/63	33,600	20,700	1.682	20.0	28,700	3.250	2.59
	80/67	36,000	21,600	1.669	21.6	28,300	3.371	2.46
	85/71	38,400	22,500	1.655	23.2	28,000	3.491	2.35
70	65/55	26,600	18,100	2.154	12.3	32,100	3.039	3.09
	70/59	29,000	19,000	2.140	13.6	31,700	3.160	2.94
	75/63	31,400	19,900	2.127	14.8	31,400	3.281	2.80
	80/67	33,800	20,800	2.113	16.0	31,000	3.402	2.67
	85/71	36,200	21,800	2.099	17.2	30,700	3.523	2.55
80	65/55	24,200	17,200	2.554	9.5	34,200	3.061	3.27
	70/59	26,600	18,100	2.540	10.5	33,900	3.182	3.12
	75/63	29,000	19,100	2.526	11.5	33,500	3.302	2.97
	80/67	31,400	20,000	2.513	12.5	33,200	3.423	2.84
	85/71	33,800	20,900	2.499	13.5	32,800	3.544	2.71
90	65/55	21,700	16,300	2.909	7.5	35,900	3.076	3.42
	70/59	24,100	17,200	2.895	8.3	35,600	3.197	3.26
	75/63	26,500	18,100	2.882	9.2	35,200	3.318	3.11
	80/67	28,900	19,000	2.868	10.1	34,900	3.438	2.97
	85/71	31,200	20,000	2.854	10.9	34,500	3.559	2.84

Size 036 (1000 SCFM) – 1st Stage Medium Fan (Continued)

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
100	65/55	19,000	15,200	3.220	5.9	Operation Not Recommended		
	70/59	21,400	16,200	3.207	6.7			
	75/63	23,800	17,100	3.193	7.5			
	80/67	26,200	18,000	3.179	8.2			
	85/71	28,600	18,900	3.165	9.0			
110	65/55	16,200	14,100	3.487	4.6			
	70/59	18,600	15,000	3.473	5.4			
	75/63	21,000	16,000	3.460	6.1			
	80/67	23,400	16,900	3.446	6.8			
	85/71	25,800	17,800	3.432	7.5			
115	65/55	14,800	13,500	3.604	4.1			
	70/59	17,100	14,400	3.590	4.8			
	75/63	19,500	15,400	3.576	5.5			
	80/67	21,900	16,300	3.563	6.1			
	85/71	24,300	17,200	3.549	6.8			

Note: Capacity Data at Full Load

Legend: Btuh = British Thermal Units per Hour
 EER = Energy Efficiency Ratio
 kW = Kilowatt

DB = Dry Bulb
 WB = Wet Bulb

Size 036 (800 SCFM) – 1st Stage Low Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
20	65/55	Operation Not Recommended				12,900	2.866	1.32
	70/59					12,600	2.993	1.23
	75/63					12,300	3.120	1.15
	80/67					11,900	3.248	1.07
	85/71					11,600	3.375	1.01
30	65/55					17,400	2.974	1.71
	70/59					17,100	3.101	1.61
	75/63					16,700	3.228	1.51
	80/67					16,400	3.356	1.43
	85/71					16,100	3.483	1.35
40	65/55	31,500	18,300	0.677	46.5	21,400	3.058	2.05
	70/59	33,800	19,200	0.663	51.0	21,100	3.185	1.94
	75/63	36,100	20,000	0.650	55.5	20,700	3.313	1.83
	80/67	38,400	20,900	0.636	60.4	20,400	3.440	1.74
	85/71	40,700	21,700	0.623	65.3	20,100	3.567	1.65
50	65/55	29,700	17,800	1.200	24.8	24,900	3.122	2.34
	70/59	31,900	18,700	1.187	26.9	24,600	3.249	2.22
	75/63	34,200	19,500	1.173	29.2	24,300	3.376	2.11
	80/67	36,500	20,300	1.160	31.5	23,900	3.503	2.00
	85/71	38,800	21,200	1.146	33.9	23,600	3.631	1.90
60	65/55	27,700	17,200	1.680	16.5	28,000	3.168	2.59
	70/59	29,900	18,000	1.667	17.9	27,600	3.295	2.45
	75/63	32,200	18,900	1.653	19.5	27,300	3.422	2.34
	80/67	34,500	19,700	1.640	21.0	27,000	3.550	2.23
	85/71	36,800	20,600	1.626	22.6	26,600	3.677	2.12
70	65/55	25,500	16,500	2.117	12.0	30,500	3.201	2.79
	70/59	27,800	17,400	2.103	13.2	30,200	3.328	2.66
	75/63	30,100	18,200	2.090	14.4	29,900	3.455	2.53
	80/67	32,400	19,000	2.076	15.6	29,500	3.582	2.41
	85/71	34,600	19,900	2.063	16.8	29,200	3.710	2.30
80	65/55	23,200	15,700	2.510	9.2	32,600	3.223	2.96
	70/59	25,500	16,600	2.496	10.2	32,300	3.351	2.82
	75/63	27,800	17,400	2.483	11.2	32,000	3.478	2.69
	80/67	30,100	18,300	2.469	12.2	31,600	3.605	2.57
	85/71	32,400	19,100	2.456	13.2	31,300	3.732	2.46
90	65/55	20,800	14,900	2.859	7.3	34,200	3.239	3.09
	70/59	23,100	15,700	2.845	8.1	33,900	3.367	2.95
	75/63	25,400	16,600	2.832	9.0	33,600	3.494	2.82
	80/67	27,600	17,400	2.818	9.8	33,200	3.621	2.68
	85/71	29,900	18,200	2.805	10.7	32,900	3.748	2.57

Size 036 (800 SCFM) – 1st Stage Low Fan (Continued)

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
100	65/55	18,200	13,900	3.165	5.8	Operation Not Recommended		
	70/59	20,500	14,800	3.151	6.5			
	75/63	22,800	15,600	3.138	7.3			
	80/67	25,100	16,500	3.124	8.0			
	85/71	27,400	17,300	3.111	8.8			
110	65/55	15,500	12,900	3.427	4.5			
	70/59	17,800	13,700	3.413	5.2			
	75/63	20,100	14,600	3.400	5.9			
	80/67	22,400	15,400	3.386	6.6			
	85/71	24,700	16,300	3.373	7.3			
115	65/55	14,100	12,300	3.541	4.0			
	70/59	16,400	13,200	3.528	4.6			
	75/63	18,700	14,000	3.514	5.3			
	80/67	21,000	14,900	3.501	6.0			
	85/71	23,300	15,700	3.487	6.7			

Note: Capacity Data at Full Load

Legend: Btuh = British Thermal Units per Hour
 EER = Energy Efficiency Ratio
 kW = Kilowatt

DB = Dry Bulb
 WB = Wet Bulb

Size 044 (1500 SCFM) – 2nd Stage High Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
20	65/55	Operation Not Recommended				28,800	4.012	2.10
	70/59					28,000	4.220	1.94
	75/63					27,100	4.429	1.79
	80/67					26,300	4.638	1.66
	85/71					25,400	4.847	1.53
30	65/55					35,200	4.111	2.51
	70/59					34,400	4.320	2.33
	75/63					33,500	4.529	2.17
	80/67					32,700	4.737	2.02
	85/71					31,800	4.946	1.88
40	65/55	45,700	31,500	2.964	15.4	41,000	4.211	2.85
	70/59	49,500	32,700	2.997	16.5	40,200	4.419	2.66
	75/63	53,200	33,800	3.029	17.6	39,300	4.628	2.49
	80/67	57,000	35,000	3.062	18.6	38,500	4.837	2.33
	85/71	60,700	36,200	3.094	19.6	37,600	5.045	2.18
50	65/55	44,500	31,200	3.070	14.5	46,300	4.310	3.15
	70/59	48,300	32,400	3.103	15.6	45,400	4.519	2.94
	75/63	52,000	33,600	3.135	16.6	44,600	4.727	2.76
	80/67	55,800	34,700	3.168	17.6	43,700	4.936	2.59
	85/71	59,500	35,900	3.200	18.6	42,900	5.145	2.44
60	65/55	42,900	30,700	3.228	13.3	51,000	4.409	3.39
	70/59	46,600	31,900	3.261	14.3	50,100	4.618	3.18
	75/63	50,400	33,100	3.293	15.3	49,300	4.827	2.99
	80/67	54,100	34,200	3.326	16.3	48,400	5.036	2.81
	85/71	57,900	35,400	3.358	17.2	47,600	5.244	2.66
70	65/55	40,800	29,900	3.438	11.9	55,100	4.509	3.58
	70/59	44,500	31,100	3.471	12.8	54,300	4.718	3.37
	75/63	48,300	32,300	3.503	13.8	53,400	4.926	3.17
	80/67	52,100	33,500	3.536	14.7	52,600	5.135	3.00
	85/71	55,800	34,600	3.568	15.6	51,700	5.344	2.83
80	65/55	38,200	28,900	3.700	10.3	58,700	4.608	3.73
	70/59	42,000	30,100	3.732	11.3	57,900	4.817	3.52
	75/63	45,800	31,200	3.765	12.2	57,000	5.026	3.32
	80/67	49,500	32,400	3.797	13.0	56,200	5.234	3.14
	85/71	53,300	33,600	3.830	13.9	55,300	5.443	2.97
90	65/55	35,300	27,600	4.013	8.8	61,800	4.708	3.84
	70/59	39,000	28,800	4.046	9.6	60,900	4.916	3.63
	75/63	42,800	30,000	4.078	10.5	60,100	5.125	3.43
	80/67	46,600	31,100	4.111	11.3	59,200	5.334	3.25
	85/71	50,300	32,300	4.143	12.1	58,400	5.542	3.09

Size 044 (1500 SCFM) – 2nd Stage High Fan (Continued)

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
100	65/55	31,900	26,100	4.378	7.3	Operation Not Recommended		
	70/59	35,600	27,300	4.411	8.1			
	75/63	39,400	28,400	4.443	8.9			
	80/67	43,100	29,600	4.476	9.6			
	85/71	46,900	30,800	4.508	10.4			
110	65/55	28,000	24,300	4.796	5.8			
	70/59	31,800	25,500	4.828	6.6			
	75/63	35,500	26,600	4.860	7.3			
	80/67	39,300	27,800	4.893	8.0			
	85/71	43,000	29,000	4.925	8.7			
115	65/55	25,900	23,300	5.024	5.2			
	70/59	29,700	24,500	5.056	5.9			
	75/63	33,400	25,600	5.088	6.6			
	80/67	37,200	26,800	5.121	7.3			
	85/71	40,900	28,000	5.153	7.9			

Note: Capacity Data at Full Load

Legend: Btuh = British Thermal Units per Hour
 EER = Energy Efficiency Ratio
 kW = Kilowatt

DB = Dry Bulb
 WB = Wet Bulb

Size 044 (1050 SCFM) – 1st Stage Medium Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
20	65/55	Operation Not Recommended				21,400	3.136	2.00
	70/59					20,900	3.310	1.85
	75/63					20,400	3.484	1.71
	80/67					19,900	3.658	1.59
	85/71					19,300	3.832	1.47
30	65/55					26,300	3.220	2.39
	70/59					25,700	3.394	2.22
	75/63					25,200	3.568	2.07
	80/67					24,700	3.742	1.93
	85/71					24,200	3.916	1.81
40	65/55	34,700	21,600	2.109	16.5	30,600	3.296	2.72
	70/59	37,100	22,500	2.084	17.8	30,100	3.470	2.54
	75/63	39,600	23,400	2.058	19.2	29,600	3.644	2.38
	80/67	42,000	24,300	2.033	20.7	29,000	3.818	2.22
	85/71	44,500	25,200	2.007	22.2	28,500	3.992	2.09
50	65/55	33,400	21,500	2.240	14.9	34,500	3.365	3.00
	70/59	35,900	22,400	2.214	16.2	34,000	3.539	2.81
	75/63	38,400	23,300	2.189	17.5	33,500	3.713	2.64
	80/67	40,800	24,200	2.163	18.9	33,000	3.887	2.49
	85/71	43,300	25,100	2.137	20.3	32,400	4.060	2.34
60	65/55	31,900	21,300	2.408	13.2	38,000	3.426	3.25
	70/59	34,400	22,200	2.382	14.4	37,500	3.600	3.05
	75/63	36,800	23,100	2.356	15.6	36,900	3.774	2.86
	80/67	39,300	24,000	2.331	16.9	36,400	3.948	2.70
	85/71	41,800	24,900	2.305	18.1	35,900	4.122	2.55
70	65/55	30,100	20,800	2.613	11.5	41,000	3.479	3.45
	70/59	32,600	21,700	2.587	12.6	40,500	3.653	3.25
	75/63	35,000	22,600	2.561	13.7	39,900	3.827	3.05
	80/67	37,500	23,500	2.536	14.8	39,400	4.001	2.88
	85/71	39,900	24,400	2.510	15.9	38,900	4.175	2.73
80	65/55	28,000	20,100	2.855	9.8	43,500	3.525	3.61
	70/59	30,400	21,000	2.829	10.7	43,000	3.699	3.40
	75/63	32,900	21,900	2.804	11.7	42,500	3.873	3.21
	80/67	35,400	22,800	2.778	12.7	41,900	4.047	3.03
	85/71	37,800	23,700	2.753	13.7	41,400	4.221	2.87
90	65/55	25,600	19,200	3.135	8.2	45,600	3.563	3.75
	70/59	28,000	20,100	3.109	9.0	45,100	3.737	3.53
	75/63	30,500	21,000	3.083	9.9	44,500	3.911	3.33
	80/67	32,900	21,900	3.058	10.8	44,000	4.085	3.15
	85/71	35,400	22,800	3.032	11.7	43,500	4.259	2.99

Size 044 (1050 SCFM) – 1st Stage Medium Fan (Continued)

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
100	65/55	22,800	18,100	3.452	6.6	Operation Not Recommended		
	70/59	25,300	19,000	3.426	7.4			
	75/63	27,800	19,900	3.400	8.2			
	80/67	30,200	20,700	3.375	8.9			
	85/71	32,700	21,600	3.349	9.8			
110	65/55	19,800	16,700	3.806	5.2			
	70/59	22,300	17,600	3.780	5.9			
	75/63	24,700	18,500	3.754	6.6			
	80/67	27,200	19,400	3.729	7.3			
	85/71	29,600	20,300	3.703	8.0			
115	65/55	18,200	16,000	3.997	4.6			
	70/59	20,600	16,900	3.971	5.2			
	75/63	23,100	17,800	3.945	5.9			
	80/67	25,600	18,700	3.920	6.5			
	85/71	28,000	19,600	3.894	7.2			

Note: Capacity Data at Full Load

Legend: Btuh = British Thermal Units per Hour
 EER = Energy Efficiency Ratio
 kW = Kilowatt

DB = Dry Bulb
 WB = Wet Bulb

Size 044 (850 SCFM) – 1st Stage Low Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
20	65/55	Operation Not Recommended				20,700	3.267	1.86
	70/59					20,100	3.448	1.71
	75/63					19,600	3.629	1.58
	80/67					19,100	3.810	1.47
	85/71					18,600	3.991	1.36
30	65/55					25,300	3.354	2.21
	70/59					24,800	3.535	2.05
	75/63					24,300	3.716	1.91
	80/67					23,800	3.897	1.79
	85/71					23,300	4.078	1.67
40	65/55	33,400	28,400	2.079	16.1	29,500	3.434	2.52
	70/59	35,700	29,600	2.054	17.4	29,000	3.615	2.35
	75/63	38,100	30,800	2.029	18.8	28,500	3.796	2.20
	80/67	40,500	32,000	2.004	20.2	28,000	3.977	2.06
	85/71	42,800	33,200	1.978	21.6	27,500	4.158	1.94
50	65/55	32,200	28,300	2.208	14.6	33,300	3.505	2.78
	70/59	34,600	29,500	2.183	15.8	32,800	3.686	2.61
	75/63	36,900	30,700	2.157	17.1	32,300	3.867	2.45
	80/67	39,300	31,900	2.132	18.4	31,700	4.048	2.29
	85/71	41,700	33,000	2.107	19.8	31,200	4.229	2.16
60	65/55	30,700	27,900	2.373	12.9	36,600	3.569	3.00
	70/59	33,100	29,100	2.348	14.1	36,100	3.750	2.82
	75/63	35,500	30,300	2.323	15.3	35,600	3.931	2.65
	80/67	37,800	31,500	2.297	16.5	35,100	4.112	2.50
	85/71	40,200	32,700	2.272	17.7	34,600	4.293	2.36
70	65/55	29,000	27,300	2.575	11.3	39,500	3.624	3.19
	70/59	31,400	28,500	2.550	12.3	39,000	3.805	3.00
	75/63	33,700	29,700	2.525	13.3	38,500	3.986	2.83
	80/67	36,100	30,800	2.500	14.4	38,000	4.168	2.67
	85/71	38,500	32,000	2.474	15.6	37,400	4.349	2.52
80	65/55	26,900	26,400	2.814	9.6	41,900	3.672	3.34
	70/59	29,300	27,600	2.789	10.5	41,400	3.853	3.15
	75/63	31,700	28,700	2.764	11.5	40,900	4.034	2.97
	80/67	34,000	29,900	2.738	12.4	40,400	4.215	2.81
	85/71	36,400	31,100	2.713	13.4	39,900	4.396	2.66
90	65/55	24,600	24,600	3.090	8.0	43,900	3.712	3.46
	70/59	27,000	26,400	3.065	8.8	43,400	3.893	3.26
	75/63	29,300	27,500	3.039	9.6	42,900	4.074	3.08
	80/67	31,700	28,700	3.014	10.5	42,400	4.255	2.92
	85/71	34,100	29,900	2.989	11.4	41,900	4.436	2.77

Size 044 (850 SCFM) – 1st Stage Low Fan (Continued)

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
100	65/55	22,000	22,000	3.402	6.5	Operation Not Recommended		
	70/59	24,300	24,300	3.377	7.2			
	75/63	26,700	26,100	3.352	8.0			
	80/67	29,100	27,300	3.326	8.7			
	85/71	31,500	28,500	3.301	9.5			
110	65/55	19,100	19,100	3.751	5.1			
	70/59	21,400	21,400	3.726	5.7			
	75/63	23,800	23,800	3.701	6.4			
	80/67	26,200	25,500	3.676	7.1			
	85/71	28,500	26,700	3.650	7.8			
115	65/55	17,500	17,500	3.940	4.4			
	70/59	19,900	19,900	3.914	5.1			
	75/63	22,200	22,200	3.889	5.7			
	80/67	24,600	24,600	3.864	6.4			
	85/71	27,000	25,800	3.839	7.0			

Note: Capacity Data at Full Load

Legend: Btuh = British Thermal Units per Hour
 EER = Energy Efficiency Ratio
 kW = Kilowatt

DB = Dry Bulb
 WB = Wet Bulb

Size 054 (1500 SCFM) – 2nd Stage High Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
20	65/55	Operation Not Recommended				37,400	5.166	2.12
	70/59					36,600	5.440	1.97
	75/63					35,900	5.714	1.84
	80/67					35,100	5.987	1.72
	85/71					34,300	6.261	1.60
30	65/55					43,700	5.307	2.41
	70/59					42,900	5.581	2.25
	75/63					42,100	5.855	2.11
	80/67					41,300	6.129	1.97
	85/71					40,500	6.403	1.85
40	65/55	52,900	35,900	3.540	14.9	49,400	5.448	2.66
	70/59	56,900	37,200	3.589	15.9	48,700	5.722	2.49
	75/63	60,800	38,400	3.637	16.7	47,900	5.996	2.34
	80/67	64,800	39,700	3.686	17.6	47,100	6.270	2.20
	85/71	68,800	40,900	3.734	18.4	46,300	6.544	2.07
50	65/55	51,800	35,000	3.662	14.1	54,700	5.589	2.87
	70/59	55,800	36,300	3.711	15.0	53,900	5.863	2.69
	75/63	59,700	37,500	3.759	15.9	53,100	6.137	2.53
	80/67	63,700	38,800	3.807	16.7	52,400	6.411	2.39
	85/71	67,600	40,000	3.856	17.5	51,600	6.685	2.26
60	65/55	50,200	34,000	3.851	13.0	59,500	5.730	3.04
	70/59	54,100	35,300	3.900	13.9	58,700	6.004	2.86
	75/63	58,100	36,500	3.948	14.7	57,900	6.278	2.70
	80/67	62,100	37,800	3.997	15.5	57,100	6.552	2.55
	85/71	66,000	39,000	4.045	16.3	56,300	6.826	2.42
70	65/55	48,000	32,900	4.108	11.7	63,800	5.872	3.18
	70/59	52,000	34,100	4.157	12.5	63,000	6.146	3.00
	75/63	55,900	35,400	4.205	13.3	62,200	6.420	2.84
	80/67	59,900	36,600	4.254	14.1	61,400	6.694	2.69
	85/71	63,900	37,900	4.302	14.9	60,600	6.967	2.55
80	65/55	45,300	31,600	4.433	10.2	67,500	6.013	3.29
	70/59	49,300	32,900	4.482	11.0	66,800	6.287	3.11
	75/63	53,200	34,100	4.530	11.7	66,000	6.561	2.95
	80/67	57,200	35,300	4.578	12.5	65,200	6.835	2.79
	85/71	61,200	36,600	4.627	13.2	64,400	7.109	2.65
90	65/55	42,100	30,200	4.825	8.7	70,800	6.154	3.37
	70/59	46,100	31,500	4.874	9.5	70,000	6.428	3.19
	75/63	50,000	32,700	4.922	10.2	69,300	6.702	3.03
	80/67	54,000	33,900	4.971	10.9	68,500	6.976	2.88
	85/71	58,000	35,200	5.019	11.6	67,700	7.250	2.73

Size 054 (1500 SCFM) – 2nd Stage High Fan (Continued)

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
100	65/55	38,400	28,700	5.285	7.3	Operation Not Recommended		
	70/59	42,300	29,900	5.334	7.9			
	75/63	46,300	31,200	5.382	8.6			
	80/67	50,300	32,400	5.430	9.3			
	85/71	54,200	33,700	5.479	9.9			
110	65/55	34,100	27,000	5.812	5.9			
	70/59	38,100	28,300	5.861	6.5			
	75/63	42,000	29,500	5.909	7.1			
	80/67	46,000	30,800	5.958	7.7			
	85/71	50,000	32,000	6.006	8.3			
115	65/55	31,800	26,200	6.102	5.2			
	70/59	35,700	27,400	6.150	5.8			
	75/63	39,700	28,600	6.198	6.4			
	80/67	43,700	29,900	6.247	7.0			
	85/71	47,600	31,100	6.295	7.6			

Note: Capacity Data at Full Load

Legend: Btuh = British Thermal Units per Hour
 EER = Energy Efficiency Ratio
 kW = Kilowatt

DB = Dry Bulb
 WB = Wet Bulb

Size 054 (1050 SCFM) – 1st Stage Medium Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
20	65/55	Operation Not Recommended				25,200	3.599	2.05
	70/59					24,500	3.803	1.89
	75/63					23,700	4.006	1.73
	80/67					23,000	4.210	1.60
	85/71					22,300	4.414	1.48
30	65/55					30,600	3.876	2.31
	70/59					29,900	4.079	2.15
	75/63					29,100	4.283	1.99
	80/67					28,400	4.487	1.85
	85/71					27,600	4.691	1.72
40	65/55	41,600	25,200	2.388	17.4	35,500	4.114	2.53
	70/59	44,300	26,100	2.367	18.7	34,700	4.318	2.35
	75/63	47,000	27,000	2.346	20.0	34,000	4.522	2.20
	80/67	49,700	27,900	2.325	21.4	33,300	4.725	2.06
	85/71	52,400	28,800	2.305	22.7	32,500	4.929	1.93
50	65/55	39,900	24,700	2.584	15.4	39,800	4.314	2.70
	70/59	42,600	25,600	2.563	16.6	39,100	4.517	2.53
	75/63	45,300	26,500	2.542	17.8	38,400	4.721	2.38
	80/67	48,000	27,400	2.521	19.0	37,600	4.925	2.24
	85/71	50,700	28,300	2.500	20.3	36,900	5.129	2.11
60	65/55	38,000	24,100	2.816	13.5	43,700	4.475	2.86
	70/59	40,700	25,000	2.795	14.6	43,000	4.679	2.69
	75/63	43,400	25,900	2.774	15.6	42,200	4.882	2.53
	80/67	46,000	26,800	2.753	16.7	41,500	5.086	2.39
	85/71	48,700	27,700	2.732	17.8	40,800	5.290	2.26
70	65/55	35,700	23,300	3.084	11.6	47,100	4.597	3.00
	70/59	38,400	24,200	3.063	12.5	46,400	4.801	2.83
	75/63	41,100	25,100	3.042	13.5	45,600	5.005	2.67
	80/67	43,800	26,000	3.022	14.5	44,900	5.209	2.52
	85/71	46,500	26,900	3.001	15.5	44,100	5.412	2.39
80	65/55	33,200	22,400	3.389	9.8	50,000	4.681	3.13
	70/59	35,900	23,300	3.368	10.7	49,200	4.885	2.95
	75/63	38,600	24,200	3.347	11.5	48,500	5.089	2.79
	80/67	41,200	25,100	3.326	12.4	47,800	5.292	2.64
	85/71	43,900	26,000	3.306	13.3	47,000	5.496	2.50
90	65/55	30,300	21,300	3.730	8.1	52,400	4.726	3.25
	70/59	33,000	22,200	3.709	8.9	51,600	4.930	3.06
	75/63	35,700	23,100	3.688	9.7	50,900	5.134	2.90
	80/67	38,400	24,000	3.667	10.5	50,200	5.338	2.75
	85/71	41,100	24,900	3.647	11.3	49,400	5.541	2.61

Size 054 (1050 SCFM) – 1st Stage Medium Fan (Continued)

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
100	65/55	27,200	20,000	4.107	6.6	Operation Not Recommended		
	70/59	29,900	20,900	4.086	7.3			
	75/63	32,600	21,800	4.066	8.0			
	80/67	35,300	22,700	4.045	8.7			
	85/71	38,000	23,600	4.024	9.4			
110	65/55	23,800	18,600	4.521	5.3			
	70/59	26,500	19,500	4.500	5.9			
	75/63	29,200	20,400	4.479	6.5			
	80/67	31,900	21,300	4.458	7.2			
	85/71	34,600	22,200	4.438	7.8			
115	65/55	22,000	17,800	4.741	4.6			
	70/59	24,700	18,700	4.720	5.2			
	75/63	27,400	19,600	4.700	5.8			
	80/67	30,100	20,500	4.679	6.4			
	85/71	32,700	21,400	4.658	7.0			

Note: Capacity Data at Full Load

Legend: Btuh = British Thermal Units per Hour
 EER = Energy Efficiency Ratio
 kW = Kilowatt

DB = Dry Bulb
 WB = Wet Bulb

Size 054 (850 SCFM) – 1st Stage Low Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
20	65/55	Operation Not Recommended				24,200	3.602	1.97
	70/59					23,500	3.806	1.81
	75/63					22,800	4.010	1.66
	80/67					22,100	4.214	1.54
	85/71					21,400	4.418	1.42
30	65/55					29,400	3.880	2.22
	70/59					28,700	4.084	2.06
	75/63					28,000	4.288	1.91
	80/67					27,300	4.492	1.78
	85/71					26,600	4.696	1.66
40	65/55	37,400	21,800	2.329	16.1	34,100	4.118	2.42
	70/59	39,800	22,600	2.309	17.2	33,400	4.322	2.26
	75/63	42,300	23,400	2.289	18.5	32,700	4.526	2.12
	80/67	44,700	24,200	2.268	19.7	32,000	4.730	1.98
	85/71	47,100	25,000	2.248	21.0	31,200	4.934	1.85
50	65/55	35,900	21,400	2.520	14.2	38,300	4.318	2.60
	70/59	38,300	22,200	2.500	15.3	37,600	4.522	2.43
	75/63	40,800	23,000	2.479	16.5	36,900	4.726	2.29
	80/67	43,200	23,800	2.459	17.6	36,200	4.930	2.15
	85/71	45,600	24,600	2.439	18.7	35,500	5.134	2.02
60	65/55	34,100	20,900	2.746	12.4	42,000	4.479	2.75
	70/59	36,600	21,700	2.726	13.4	41,300	4.683	2.58
	75/63	39,000	22,500	2.706	14.4	40,600	4.887	2.43
	80/67	41,400	23,300	2.686	15.4	39,900	5.091	2.29
	85/71	43,800	24,000	2.665	16.4	39,200	5.295	2.17
70	65/55	32,100	20,300	3.008	10.7	45,300	4.602	2.88
	70/59	34,500	21,000	2.988	11.5	44,600	4.806	2.72
	75/63	37,000	21,800	2.968	12.5	43,900	5.010	2.57
	80/67	39,400	22,600	2.947	13.4	43,100	5.214	2.42
	85/71	41,800	23,400	2.927	14.3	42,400	5.418	2.29
80	65/55	29,800	19,400	3.305	9.0	48,000	4.686	3.00
	70/59	32,300	20,200	3.285	9.8	47,300	4.890	2.83
	75/63	34,700	21,000	3.265	10.6	46,600	5.094	2.68
	80/67	37,100	21,800	3.245	11.4	45,900	5.298	2.54
	85/71	39,500	22,600	3.224	12.3	45,200	5.502	2.41
90	65/55	27,300	18,500	3.638	7.5	50,300	4.731	3.11
	70/59	29,700	19,300	3.618	8.2	49,600	4.935	2.94
	75/63	32,100	20,000	3.597	8.9	48,900	5.139	2.79
	80/67	34,500	20,800	3.577	9.6	48,200	5.343	2.64
	85/71	37,000	21,600	3.557	10.4	47,500	5.547	2.51

Size 054 (850 SCFM) – 1st Stage Low Fan (Continued)

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Heating		
		Total Btuh	Sensible Btuh	Power Input kW	EER	Total Btuh	Power Input kW	COP
100	65/55	24,500	17,400	4.006	6.1	Operation Not Recommended		
	70/59	26,900	18,200	3.986	6.7			
	75/63	29,300	18,900	3.966	7.4			
	80/67	31,700	19,700	3.945	8.0			
	85/71	34,100	20,500	3.925	8.7			
110	65/55	21,400	16,100	4.410	4.9			
	70/59	23,800	16,900	4.389	5.4			
	75/63	26,200	17,700	4.369	6.0			
	80/67	28,700	18,500	4.349	6.6			
	85/71	31,100	19,300	4.329	7.2			
115	65/55	19,800	15,400	4.625	4.3			
	70/59	22,200	16,200	4.604	4.8			
	75/63	24,600	17,000	4.584	5.4			
	80/67	27,000	17,800	4.564	5.9			
	85/71	29,400	18,600	4.544	6.5			

Note: Capacity Data at Full Load

Legend: Btuh = British Thermal Units per Hour
 EER = Energy Efficiency Ratio
 kW = Kilowatt

DB = Dry Bulb
 WB = Wet Bulb



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