



Engineering Data

ED 18506-3

Group: **WSHP**
 Document PN: **ED 18506-3**
 Date: **March 2014**

Daikin Self-Contained Classroom Unit Ventilators

Model AZ with R-410A Refrigerant – Cooling Capacity Data

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

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling			
		Total Btuh	Sensible Btuh	Power Input kW	EER			Total Btuh	Sensible Btuh	Power Input kW	EER
40	65/55	19,900	15,700	1.352	14.7	90	65/55	16,900	13,300	1.965	8.6
	70/59	21,400	16,700	1.372	15.6		70/59	18,500	14,200	1.985	9.3
	75/63	23,000	17,700	1.392	16.5		75/63	20,000	15,200	2.005	10.0
	80/67	24,500	18,700	1.412	17.4		80/67	21,500	16,200	2.025	10.6
	85/71	26,000	19,700	1.432	18.2		85/71	23,100	17,200	2.045	11.3
50	65/55	20,100	15,500	1.423	14.1	100	65/55	15,100	12,400	2.164	7.0
	70/59	21,600	16,500	1.443	15.0		70/59	16,700	13,400	2.184	7.6
	75/63	23,200	17,500	1.464	15.8		75/63	18,200	14,400	2.204	8.3
	80/67	24,700	18,500	1.484	16.6		80/67	19,800	15,400	2.224	8.9
	85/71	26,200	19,400	1.504	17.4		85/71	21,300	16,300	2.244	9.5
60	65/55	19,900	15,100	1.520	13.1	110	65/55	13,000	11,400	2.388	5.4
	70/59	21,400	16,100	1.541	13.9		70/59	14,500	12,400	2.409	6.0
	75/63	23,000	17,100	1.561	14.7		75/63	16,000	13,400	2.429	6.6
	80/67	24,500	18,100	1.581	15.5		80/67	17,600	14,400	2.449	7.2
	85/71	26,000	19,100	1.601	16.2		85/71	19,100	15,400	2.469	7.7
70	65/55	19,300	14,600	1.643	11.7	115	65/55	11,700	10,900	2.510	4.7
	70/59	20,800	15,600	1.663	12.5		70/59	13,300	11,800	2.530	5.3
	75/63	22,400	16,600	1.683	13.3		75/63	14,800	12,800	2.551	5.8
	80/67	23,900	17,600	1.703	14.0		80/67	16,300	13,800	2.571	6.3
	85/71	25,500	18,600	1.724	14.8		85/71	17,900	14,800	2.591	6.9
80	65/55	18,300	14,000	1.791	10.2						
	70/59	19,800	15,000	1.811	10.9						
	75/63	21,400	16,000	1.831	11.7						
	80/67	22,900	17,000	1.852	12.4						
	85/71	24,500	17,900	1.872	13.1						

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 (750 SCFM) – 1st Stage Medium Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling			
		Total Btu/hr	Sensible Btu/hr	Power Input kW	EER			Total Btu/hr	Sensible Btu/hr	Power Input kW	EER
40	65/55	19,100	11,700	0.955	20.0	90	65/55	12,000	9,600	1.524	7.9
	70/59	20,200	12,600	0.942	21.4		70/59	13,200	10,400	1.511	8.7
	75/63	21,400	13,400	0.929	23.0		75/63	14,400	11,200	1.499	9.6
	80/67	22,600	14,200	0.917	24.6		80/67	15,500	12,000	1.486	10.4
	85/71	23,700	15,000	0.904	26.2		85/71	16,700	12,800	1.474	11.3
50	65/55	17,700	11,400	1.032	17.2	100	65/55	10,600	9,000	1.692	6.3
	70/59	18,900	12,200	1.020	18.5		70/59	11,700	9,800	1.680	7.0
	75/63	20,000	13,000	1.007	19.9		75/63	12,900	10,600	1.667	7.7
	80/67	21,200	13,800	0.995	21.3		80/67	14,100	11,400	1.655	8.5
	85/71	22,400	14,600	0.982	22.8		85/71	15,200	12,200	1.642	9.3
60	65/55	16,300	11,000	1.128	14.5	110	65/55	9,100	8,400	1.879	4.8
	70/59	17,500	11,800	1.115	15.7		70/59	10,200	9,200	1.866	5.5
	75/63	18,700	12,600	1.103	17.0		75/63	11,400	10,000	1.854	6.1
	80/67	19,800	13,400	1.090	18.2		80/67	12,600	10,800	1.841	6.8
	85/71	21,000	14,200	1.078	19.5		85/71	13,700	11,600	1.829	7.5
70	65/55	14,900	10,600	1.242	12.0	115	65/55	8,300	8,000	1.979	4.2
	70/59	16,100	11,400	1.229	13.1		70/59	9,500	8,900	1.966	4.8
	75/63	17,200	12,200	1.217	14.1		75/63	10,600	9,700	1.954	5.4
	80/67	18,400	13,000	1.204	15.3		80/67	11,800	10,500	1.941	6.1
	85/71	19,600	13,800	1.192	16.4		85/71	13,000	11,300	1.929	6.7
80	65/55	13,500	10,100	1.374	9.8						
	70/59	14,700	10,900	1.361	10.8						
	75/63	15,800	11,700	1.349	11.7						
	80/67	17,000	12,500	1.336	12.7						
	85/71	18,200	13,300	1.324	13.7						

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 024 (650 SCFM) – 1st Stage Low Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling			
		Total Btu/hr	Sensible Btu/hr	Power Input kW	EER			Total Btu/hr	Sensible Btu/hr	Power Input kW	EER
40	65/55	18,500	10,900	0.928	19.9	90	65/55	11,700	8,900	1.482	7.9
	70/59	19,600	11,600	0.916	21.4		70/59	12,800	9,600	1.470	8.7
	75/63	20,800	12,400	0.904	23.0		75/63	13,900	10,400	1.457	9.5
	80/67	21,900	13,100	0.891	24.6		80/67	15,100	11,100	1.445	10.4
	85/71	23,000	13,900	0.879	26.2		85/71	16,200	11,900	1.433	11.3
50	65/55	17,200	10,600	1.004	17.1	100	65/55	10,200	8,300	1.645	6.2
	70/59	18,300	11,300	0.991	18.5		70/59	11,400	9,100	1.633	7.0
	75/63	19,400	12,100	0.979	19.8		75/63	12,500	9,800	1.621	7.7
	80/67	20,600	12,800	0.967	21.3		80/67	13,600	10,600	1.609	8.5
	85/71	21,700	13,600	0.955	22.7		85/71	14,800	11,300	1.597	9.3
60	65/55	15,800	10,200	1.097	14.4	110	65/55	8,800	7,800	1.827	4.8
	70/59	17,000	11,000	1.084	15.7		70/59	9,900	8,500	1.815	5.5
	75/63	18,100	11,700	1.072	16.9		75/63	11,100	9,300	1.802	6.2
	80/67	19,200	12,400	1.060	18.1		80/67	12,200	10,000	1.790	6.8
	85/71	20,400	13,200	1.048	19.5		85/71	13,300	10,800	1.778	7.5
70	65/55	14,500	9,800	1.207	12.0	115	65/55	8,100	7,500	1.924	4.2
	70/59	15,600	10,500	1.195	13.1		70/59	9,200	8,200	1.912	4.8
	75/63	16,700	11,300	1.183	14.1		75/63	10,300	9,000	1.900	5.4
	80/67	17,900	12,000	1.171	15.3		80/67	11,500	9,700	1.887	6.1
	85/71	19,000	12,800	1.159	16.4		85/71	12,600	10,500	1.875	6.7
80	65/55	13,100	9,300	1.336	9.8						
	70/59	14,200	10,100	1.324	10.7						
	75/63	15,300	10,800	1.311	11.7						
	80/67	16,500	11,600	1.299	12.7						
	85/71	17,600	12,300	1.287	13.7						

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 036 (1250 SCFM) – 2nd Stage High Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling			
		Total Btu/hr	Sensible Btu/hr	Power Input kW	EER			Total Btu/hr	Sensible Btu/hr	Power Input kW	EER
40	65/55	38,400	26,700	2.099	18.3	90	65/55	26,300	20,900	3.656	7.2
	70/59	42,600	28,200	2.034	20.9		70/59	30,600	22,400	3.591	8.5
	75/63	46,900	29,600	1.969	23.8		75/63	34,900	23,900	3.526	9.9
	80/67	51,200	31,100	1.904	26.9		80/67	39,200	25,300	3.461	11.3
	85/71	55,500	32,500	1.839	30.2		85/71	43,500	26,800	3.396	12.8
50	65/55	35,800	25,500	2.430	14.7	100	65/55	24,200	19,900	3.938	6.1
	70/59	40,100	26,900	2.365	17.0		70/59	28,500	21,300	3.873	7.4
	75/63	44,300	28,400	2.300	19.3		75/63	32,800	22,800	3.808	8.6
	80/67	48,600	29,900	2.235	21.7		80/67	37,000	24,300	3.743	9.9
	85/71	52,900	31,300	2.170	24.4		85/71	41,300	25,700	3.678	11.2
60	65/55	33,300	24,300	2.751	12.1	110	65/55	22,100	18,800	4.210	5.2
	70/59	37,600	25,800	2.686	14.0		70/59	26,400	20,300	4.145	6.4
	75/63	41,800	27,200	2.622	15.9		75/63	30,700	21,800	4.080	7.5
	80/67	46,100	28,700	2.557	18.0		80/67	35,000	23,200	4.015	8.7
	85/71	50,400	30,200	2.492	20.2		85/71	39,300	24,700	3.950	9.9
70	65/55	30,900	23,200	3.063	10.1	115	65/55	21,100	18,300	4.342	4.9
	70/59	35,200	24,600	2.998	11.7		70/59	25,400	19,800	4.277	5.9
	75/63	39,400	26,100	2.933	13.4		75/63	29,700	21,300	4.212	7.1
	80/67	43,700	27,600	2.868	15.2		80/67	34,000	22,700	4.147	8.2
	85/71	48,000	29,000	2.803	17.1		85/71	38,300	24,200	4.083	9.4
80	65/55	28,500	22,000	3.364	8.5						
	70/59	32,800	23,500	3.300	9.9						
	75/63	37,100	25,000	3.235	11.5						
	80/67	41,400	26,400	3.170	13.1						
	85/71	45,700	27,900	3.105	14.7						

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 036 (1000 SCFM) – 1st Stage Medium Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling			
		Total Btu/hr	Sensible Btu/hr	Power Input kW	EER			Total Btu/hr	Sensible Btu/hr	Power Input kW	EER
40	65/55	27,100	17,400	1.542	17.6	90	65/55	21,100	15,600	2.460	8.6
	70/59	29,400	18,300	1.528	19.2		70/59	23,400	16,500	2.447	9.6
	75/63	31,800	19,200	1.514	21.0		75/63	25,800	17,500	2.433	10.6
	80/67	34,200	20,100	1.500	22.8		80/67	28,200	18,400	2.419	11.7
	85/71	36,600	21,100	1.487	24.6		85/71	30,600	19,300	2.406	12.7
50	65/55	26,600	17,400	1.647	16.2	100	65/55	18,700	14,700	2.762	6.8
	70/59	29,000	18,300	1.633	17.8		70/59	21,100	15,600	2.748	7.7
	75/63	31,400	19,300	1.619	19.4		75/63	23,500	16,500	2.735	8.6
	80/67	33,800	20,200	1.606	21.0		80/67	25,900	17,500	2.721	9.5
	85/71	36,100	21,100	1.592	22.7		85/71	28,200	18,400	2.707	10.4
60	65/55	25,800	17,300	1.791	14.4	110	65/55	16,000	13,500	3.103	5.2
	70/59	28,200	18,200	1.778	15.9		70/59	18,400	14,500	3.089	6.0
	75/63	30,600	19,100	1.764	17.3		75/63	20,800	15,400	3.075	6.8
	80/67	32,900	20,000	1.750	18.8		80/67	23,100	16,300	3.062	7.5
	85/71	35,300	21,000	1.736	20.3		85/71	25,500	17,200	3.048	8.4
70	65/55	24,600	16,900	1.975	12.5	115	65/55	14,500	12,900	3.288	4.4
	70/59	27,000	17,800	1.961	13.8		70/59	16,900	13,800	3.274	5.2
	75/63	29,400	18,800	1.948	15.1		75/63	19,300	14,800	3.261	5.9
	80/67	31,700	19,700	1.934	16.4		80/67	21,600	15,700	3.247	6.7
	85/71	34,100	20,600	1.920	17.8		85/71	24,000	16,600	3.233	7.4
80	65/55	23,000	16,400	2.198	10.5						
	70/59	25,400	17,300	2.184	11.6						
	75/63	27,800	18,200	2.171	12.8						
	80/67	30,200	19,100	2.157	14.0						
	85/71	32,500	20,100	2.143	15.2						

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 (800 SCFM) – 1st Stage Low Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling			
		Total Btu/hr	Sensible Btu/hr	Power Input kW	EER			Total Btu/hr	Sensible Btu/hr	Power Input kW	EER
40	65/55	25,900	15,800	1.505	17.2	90	65/55	20,100	14,200	2.402	8.4
	70/59	28,200	16,700	1.491	18.9		70/59	22,400	15,100	2.388	9.4
	75/63	30,400	17,500	1.478	20.6		75/63	24,700	15,900	2.375	10.4
	80/67	32,700	18,300	1.464	22.3		80/67	27,000	16,700	2.361	11.4
	85/71	35,000	19,200	1.451	24.1		85/71	29,200	17,600	2.348	12.4
50	65/55	25,500	15,900	1.607	15.9	100	65/55	17,900	13,400	2.696	6.6
	70/59	27,700	16,700	1.594	17.4		70/59	20,200	14,200	2.683	7.5
	75/63	30,000	17,500	1.581	19.0		75/63	22,500	15,000	2.669	8.4
	80/67	32,300	18,400	1.567	20.6		80/67	24,700	15,900	2.656	9.3
	85/71	34,600	19,200	1.554	22.3		85/71	27,000	16,700	2.642	10.2
60	65/55	24,700	15,700	1.748	14.1	110	65/55	15,300	12,300	3.029	5.1
	70/59	27,000	16,600	1.735	15.6		70/59	17,600	13,200	3.015	5.8
	75/63	29,200	17,400	1.722	17.0		75/63	19,900	14,000	3.002	6.6
	80/67	31,500	18,200	1.708	18.4		80/67	22,100	14,900	2.989	7.4
	85/71	33,800	19,100	1.695	19.9		85/71	24,400	15,700	2.975	8.2
70	65/55	23,500	15,400	1.928	12.2	115	65/55	13,900	11,800	3.210	4.3
	70/59	25,800	16,200	1.914	13.5		70/59	16,100	12,600	3.196	5.0
	75/63	28,100	17,100	1.901	14.8		75/63	18,400	13,400	3.183	5.8
	80/67	30,400	17,900	1.888	16.1		80/67	20,700	14,300	3.169	6.5
	85/71	32,600	18,800	1.874	17.4		85/71	23,000	15,100	3.156	7.3
80	65/55	22,000	14,900	2.146	10.3						
	70/59	24,300	15,700	2.132	11.4						
	75/63	26,600	16,600	2.119	12.6						
	80/67	28,800	17,400	2.105	13.7						
	85/71	31,100	18,300	2.092	14.9						

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 (1500 SCFM) – 2nd Stage High Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling			
		Total Btu/hr	Sensible Btu/hr	Power Input kW	EER			Total Btu/hr	Sensible Btu/hr	Power Input kW	EER
40	65/55	45,100	33,400	2.905	15.5	90	65/55	35,200	27,400	4.043	8.7
	70/59	48,900	34,600	2.937	16.6		70/59	39,000	28,600	4.076	9.6
	75/63	52,700	35,800	2.969	17.8		75/63	42,700	29,800	4.108	10.4
	80/67	56,400	36,900	3.002	18.8		80/67	46,500	31,000	4.141	11.2
	85/71	60,200	38,100	3.034	19.8		85/71	50,300	32,100	4.173	12.1
50	65/55	44,000	32,300	3.048	14.4	100	65/55	31,900	26,100	4.398	7.3
	70/59	47,800	33,500	3.080	15.5		70/59	35,700	27,300	4.430	8.1
	75/63	51,600	34,700	3.113	16.6		75/63	39,400	28,500	4.463	8.8
	80/67	55,300	35,800	3.145	17.6		80/67	43,200	29,600	4.495	9.6
	85/71	59,100	37,000	3.178	18.6		85/71	46,900	30,800	4.528	10.4
60	65/55	42,500	31,200	3.234	13.1	110	65/55	28,100	24,700	4.794	5.9
	70/59	46,300	32,300	3.266	14.2		70/59	31,900	25,900	4.827	6.6
	75/63	50,000	33,500	3.298	15.2		75/63	35,700	27,100	4.859	7.3
	80/67	53,800	34,700	3.331	16.2		80/67	39,400	28,200	4.892	8.1
	85/71	57,500	35,900	3.363	17.1		85/71	43,200	29,400	4.924	8.8
70	65/55	40,500	30,000	3.461	11.7	115	65/55	26,100	24,000	5.009	5.2
	70/59	44,300	31,100	3.494	12.7		70/59	29,800	25,200	5.041	5.9
	75/63	48,000	32,300	3.526	13.6		75/63	33,600	26,400	5.073	6.6
	80/67	51,800	33,500	3.559	14.6		80/67	37,400	27,500	5.106	7.3
	85/71	55,600	34,700	3.591	15.5		85/71	41,100	28,700	5.138	8.0
80	65/55	38,100	28,700	3.731	10.2						
	70/59	41,900	29,900	3.764	11.1						
	75/63	45,600	31,100	3.796	12.0						
	80/67	49,400	32,200	3.829	12.9						
	85/71	53,100	33,400	3.861	13.8						

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 044 (1050 SCFM) – 1st Stage Medium Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling			
		Total Btu/hr	Sensible Btu/hr	Power Input kW	EER			Total Btu/hr	Sensible Btu/hr	Power Input kW	EER
40	65/55	33,100	22,500	2.164	15.3	90	65/55	26,300	19,200	3.130	8.4
	70/59	35,600	23,400	2.139	16.6		70/59	28,800	20,100	3.104	9.3
	75/63	38,100	24,300	2.113	18.0		75/63	31,200	21,000	3.078	10.1
	80/67	40,500	25,200	2.088	19.4		80/67	33,700	21,900	3.053	11.0
	85/71	43,000	26,100	2.062	20.9		85/71	36,100	22,800	3.027	11.9
50	65/55	32,500	22,200	2.276	14.3	100	65/55	23,800	18,200	3.446	6.9
	70/59	35,000	23,100	2.250	15.6		70/59	26,300	19,100	3.420	7.7
	75/63	37,400	24,000	2.224	16.8		75/63	28,700	20,000	3.394	8.5
	80/67	39,900	24,900	2.199	18.1		80/67	31,200	20,900	3.369	9.3
	85/71	42,400	25,800	2.173	19.5		85/71	33,600	21,800	3.343	10.1
60	65/55	31,500	21,600	2.428	13.0	110	65/55	20,900	16,900	3.802	5.5
	70/59	34,000	22,500	2.402	14.2		70/59	23,400	17,800	3.777	6.2
	75/63	36,400	23,400	2.377	15.3		75/63	25,800	18,700	3.751	6.9
	80/67	38,900	24,300	2.351	16.5		80/67	28,300	19,600	3.725	7.6
	85/71	41,400	25,200	2.325	17.8		85/71	30,800	20,500	3.700	8.3
70	65/55	30,200	21,000	2.621	11.5	115	65/55	19,400	16,300	3.996	4.9
	70/59	32,600	21,900	2.595	12.6		70/59	21,800	17,200	3.970	5.5
	75/63	35,100	22,800	2.570	13.7		75/63	24,300	18,100	3.945	6.2
	80/67	37,500	23,700	2.544	14.7		80/67	26,700	19,000	3.919	6.8
	85/71	40,000	24,600	2.518	15.9		85/71	29,200	19,900	3.894	7.5
80	65/55	28,400	20,200	2.855	9.9						
	70/59	30,900	21,100	2.829	10.9						
	75/63	33,300	22,000	2.804	11.9						
	80/67	35,800	22,900	2.778	12.9						
	85/71	38,300	23,800	2.752	13.9						

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 (850 SCFM) – 1st Stage Low Fan

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling			
		Total Btu/hr	Sensible Btu/hr	Power Input kW	EER			Total Btu/hr	Sensible Btu/hr	Power Input kW	EER
40	65/55	31,600	20,600	2.132	14.8	90	65/55	25,100	17,500	3.082	8.1
	70/59	34,000	21,400	2.106	16.1		70/59	27,500	18,400	3.057	9.0
	75/63	36,300	22,200	2.081	17.4		75/63	29,800	19,200	3.032	9.8
	80/67	38,700	23,000	2.056	18.8		80/67	32,200	20,000	3.007	10.7
	85/71	41,000	23,800	2.031	20.2		85/71	34,500	20,800	2.981	11.6
50	65/55	31,100	20,200	2.241	13.9	100	65/55	22,700	16,600	3.393	6.7
	70/59	33,400	21,000	2.216	15.1		70/59	25,100	17,400	3.368	7.5
	75/63	35,700	21,900	2.191	16.3		75/63	27,400	18,200	3.343	8.2
	80/67	38,100	22,700	2.165	17.6		80/67	29,800	19,000	3.318	9.0
	85/71	40,400	23,500	2.140	18.9		85/71	32,100	19,800	3.292	9.8
60	65/55	30,100	19,700	2.391	12.6	110	65/55	20,000	15,400	3.745	5.3
	70/59	32,500	20,600	2.366	13.7		70/59	22,300	16,300	3.719	6.0
	75/63	34,800	21,400	2.341	14.9		75/63	24,700	17,100	3.694	6.7
	80/67	37,100	22,200	2.315	16.0		80/67	27,000	17,900	3.669	7.4
	85/71	39,500	23,000	2.290	17.2		85/71	29,400	18,700	3.644	8.1
70	65/55	28,800	19,100	2.581	11.2	115	65/55	18,500	14,800	3.935	4.7
	70/59	31,100	20,000	2.556	12.2		70/59	20,800	15,700	3.910	5.3
	75/63	33,500	20,800	2.531	13.2		75/63	23,200	16,500	3.885	6.0
	80/67	35,800	21,600	2.505	14.3		80/67	25,500	17,300	3.860	6.6
	85/71	38,200	22,400	2.480	15.4		85/71	27,900	18,100	3.834	7.3
80	65/55	27,100	18,400	2.812	9.6						
	70/59	29,500	19,200	2.786	10.6						
	75/63	31,800	20,000	2.761	11.5						
	80/67	34,200	20,900	2.736	12.5						
	85/71	36,500	21,700	2.711	13.5						

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

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

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling			
		Total Btu/hr	Sensible Btu/hr	Power Input kW	EER			Total Btu/hr	Sensible Btu/hr	Power Input kW	EER
40	65/55	53,300	37,100	3.361	15.9	90	65/55	43,300	30,900	4.769	9.1
	70/59	57,300	38,300	3.409	16.8		70/59	47,300	32,100	4.817	9.8
	75/63	61,200	39,600	3.458	17.7		75/63	51,200	33,400	4.866	10.5
	80/67	65,200	40,800	3.506	18.6		80/67	55,200	34,600	4.914	11.2
	85/71	69,200	42,100	3.555	19.5		85/71	59,200	35,900	4.962	11.9
50	65/55	52,300	36,000	3.533	14.8	100	65/55	39,800	29,400	5.215	7.6
	70/59	56,300	37,300	3.581	15.7		70/59	43,700	30,600	5.264	8.3
	75/63	60,300	38,500	3.629	16.6		75/63	47,700	31,900	5.312	9.0
	80/67	64,200	39,800	3.678	17.5		80/67	51,700	33,100	5.361	9.6
	85/71	68,200	41,000	3.726	18.3		85/71	55,600	34,400	5.409	10.3
60	65/55	50,900	34,900	3.759	13.5	110	65/55	35,700	27,800	5.717	6.2
	70/59	54,800	36,100	3.807	14.4		70/59	39,700	29,000	5.765	6.9
	75/63	58,800	37,400	3.856	15.2		75/63	43,600	30,300	5.814	7.5
	80/67	62,800	38,600	3.904	16.1		80/67	47,600	31,500	5.862	8.1
	85/71	66,700	39,900	3.953	16.9		85/71	51,600	32,800	5.911	8.7
70	65/55	48,900	33,600	4.041	12.1	115	65/55	33,500	27,000	5.988	5.6
	70/59	52,800	34,900	4.089	12.9		70/59	37,500	28,200	6.037	6.2
	75/63	56,800	36,100	4.137	13.7		75/63	41,400	29,500	6.085	6.8
	80/67	60,800	37,400	4.186	14.5		80/67	45,400	30,700	6.134	7.4
	85/71	64,700	38,600	4.234	15.3		85/71	49,300	31,900	6.182	8.0
80	65/55	46,300	32,300	4.377	10.6						
	70/59	50,300	33,600	4.426	11.4						
	75/63	54,300	34,800	4.474	12.1						
	80/67	58,200	36,100	4.522	12.9						
	85/71	62,200	37,300	4.571	13.6						

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				Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling			
		Total Btu/hr	Sensible Btu/hr	Power Input kW	EER			Total Btu/hr	Sensible Btu/hr	Power Input kW	EER
40	65/55	42,700	25,000	2.440	17.5	90	65/55	30,400	21,400	3.673	8.3
	70/59	45,400	25,900	2.419	18.8		70/59	33,100	22,300	3.652	9.1
	75/63	48,100	26,800	2.398	20.1		75/63	35,800	23,200	3.631	9.9
	80/67	50,800	27,700	2.378	21.4		80/67	38,500	24,100	3.610	10.7
	85/71	53,500	28,600	2.357	22.7		85/71	41,100	25,000	3.590	11.4
50	65/55	40,600	24,600	2.590	15.7	100	65/55	27,400	20,200	4.064	6.7
	70/59	43,300	25,500	2.569	16.9		70/59	30,100	21,100	4.043	7.4
	75/63	46,000	26,400	2.548	18.1		75/63	32,800	22,000	4.023	8.2
	80/67	48,700	27,300	2.527	19.3		80/67	35,500	22,900	4.002	8.9
	85/71	51,300	28,200	2.507	20.5		85/71	38,200	23,800	3.981	9.6
60	65/55	38,300	24,100	2.788	13.7	110	65/55	24,300	18,800	4.504	5.4
	70/59	41,000	25,000	2.767	14.8		70/59	27,000	19,700	4.483	6.0
	75/63	43,700	25,900	2.746	15.9		75/63	29,700	20,600	4.463	6.7
	80/67	46,300	26,800	2.726	17.0		80/67	32,400	21,500	4.442	7.3
	85/71	49,000	27,700	2.705	18.1		85/71	35,100	22,400	4.421	7.9
70	65/55	35,800	23,400	3.035	11.8	115	65/55	22,700	18,000	4.742	4.8
	70/59	38,500	24,300	3.014	12.8		70/59	25,400	18,900	4.721	5.4
	75/63	41,200	25,200	2.993	13.8		75/63	28,100	19,800	4.701	6.0
	80/67	43,900	26,100	2.972	14.8		80/67	30,800	20,700	4.680	6.6
	85/71	46,600	27,000	2.951	15.8		85/71	33,400	21,600	4.659	7.2
80	65/55	33,200	22,500	3.330	10.0						
	70/59	35,900	23,400	3.309	10.8						
	75/63	38,600	24,300	3.288	11.7						
	80/67	41,200	25,200	3.267	12.6						
	85/71	43,900	26,100	3.246	13.5						

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

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

Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling				Entering Air Temperature Outdoor DB °F	Entering Air Temperature Indoor DB/WB °F	Cooling			
		Total Btu/hr	Sensible Btu/hr	Power Input kW	EER			Total Btu/hr	Sensible Btu/hr	Power Input kW	EER
40	65/55	40,700	22,900	2.407	16.9	90	65/55	29,000	19,600	3.623	8.0
	70/59	43,300	23,700	2.386	18.1		70/59	31,500	20,500	3.602	8.7
	75/63	45,900	24,500	2.366	19.4		75/63	34,100	21,300	3.582	9.5
	80/67	48,400	25,300	2.345	20.6		80/67	36,700	22,100	3.561	10.3
	85/71	51,000	26,200	2.325	21.9		85/71	39,200	22,900	3.541	11.1
50	65/55	38,700	22,500	2.555	15.1	100	65/55	26,100	18,500	4.009	6.5
	70/59	41,300	23,400	2.534	16.3		70/59	28,700	19,300	3.988	7.2
	75/63	43,800	24,200	2.514	17.4		75/63	31,300	20,200	3.968	7.9
	80/67	46,400	25,000	2.493	18.6		80/67	33,800	21,000	3.947	8.6
	85/71	48,900	25,800	2.473	19.8		85/71	36,400	21,800	3.927	9.3
60	65/55	36,500	22,100	2.750	13.3	110	65/55	23,200	17,200	4.443	5.2
	70/59	39,100	22,900	2.730	14.3		70/59	25,700	18,000	4.422	5.8
	75/63	41,600	23,700	2.709	15.4		75/63	28,300	18,900	4.402	6.4
	80/67	44,200	24,500	2.689	16.4		80/67	30,900	19,700	4.381	7.1
	85/71	46,700	25,400	2.668	17.5		85/71	33,400	20,500	4.361	7.7
70	65/55	34,100	21,400	2.993	11.4	115	65/55	21,600	16,500	4.678	4.6
	70/59	36,700	22,200	2.973	12.3		70/59	24,200	17,300	4.657	5.2
	75/63	39,300	23,100	2.952	13.3		75/63	26,800	18,100	4.637	5.8
	80/67	41,800	23,900	2.932	14.3		80/67	29,300	19,000	4.616	6.3
	85/71	44,400	24,700	2.911	15.3		85/71	31,900	19,800	4.596	6.9
80	65/55	31,600	20,600	3.284	9.6						
	70/59	34,200	21,400	3.264	10.5						
	75/63	36,800	22,300	3.243	11.3						
	80/67	39,300	23,100	3.223	12.2						
	85/71	41,900	23,900	3.202	13.1						

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



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