



COMMERCIAL



PAD3

Product Specifications

13 SEER PACKAGE AIR CONDITIONER, 2½ - 5 TONS

3-Phase, 208/230-3-60 and 460-3-60

REFRIGERATION CIRCUIT

- Environmentally sound R-410A refrigerant
- Scroll compressors standard on all models
- Copper tube/aluminum fin condenser and evaporator coils

EASY TO INSTALL AND SERVICE

- Installs easily on a rooftop or at ground level
- Easy single-panel accessibility for maintenance and installation
- Easily converts to down discharge applications

BUILT TO LAST

- Wire grille
- Pre-painted steel cabinet
- PSC indoor blower motor on all models
- Vertical condenser fan discharge
- Rust-proof base with integral sloping drain
- High and Low pressure switches factory installed

LIMITED WARRANTY

- 10-year compressor limited warranty
- 5-year parts limited warranty



As an Energy Star® Partner, International Comfort Products has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

UNIT PERFORMANCE DATA

Model Number	Voltage 3-phase 60 HZ	COOLING				Unit Dimensions H x W x D Inches / mm	Operating Weight lbs / kg
		Nominal Capacity BTU/h	SEER	EER	S/T Ratio		
PAD330000H00A	208/230	28,000	13.2	11.2	.75	39x48x33 / 991x1226x831	281 / 127
PAD336000H00A	208/230	34,000	13.5	11.2	.73	43x48x33 / 1042x1226x1123	299 / 136
PAD336000L00A	460	34,000	13.5	11.2	.73	43x48x33 / 1042x1226x1123	299 / 136
PAD342000H00A	208/230	40,000	13.0	10.9	.75	43x48x33 / 1042x1226x1123	367 / 166
PAD342000L00A	460	40,000	13.0	10.9	.75	43x48x33 / 1042x1226x1123	367 / 166
PAD348000H00A	208/230	46,500	13.2	10.9	.74	43x48x33 / 1042x1226x1123	382 / 173
PAD348000L00A	460	46,500	13.2	10.9	.74	43x48x33 / 1042x1226x1123	382 / 173
PAD360000H00A	208/230	56,500	13.2	11.0	.74	47x48x44 / 1193x1226x1123	412 / 187
PAD360000L00A	460	56,500	13.2	11.0	.74	47x48x44 / 1193x1226x1123	412 / 187

Not yet approved for sale in California (not yet listed with CEC - California Energy Commission)

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11/21/08

UNIT SPECIFICATIONS													
MODEL NUMBER	Electrical Data 3-phase, 60 HZ			Condenser									Sound Ratings (dBA)
				Coil			Fan Motor			Fan			
	Voltage	Maximum HACR Breaker or Fuse	MCA	Face Area (ft.²)	Fins Per Inch / Rows	Tube Diameter (inches)	Horse Power	Full Load Amps	Locked Rotor Amps	Diameter (inches)	RPM (Max)	CFM (Design)	
PAD330000H	208/230	25 amps	15.5	11.9	21 / 2	3/8	1/8	0.9	1.6	22	825	2800	73
PAD336000H	208/230	25 amps	16.5	13.6	21 / 2	3/8	1/8	0.9	1.7	22	825	3000	76
PAD336000L	460	15 amps	9.5					0.6	0.9				
PAD342000H	208/230	30 amps	21.9	15.5	21 / 2	3/8	1/8	0.9	1.7	22	825	3500	74
PAD342000L	460	15 amps	10.0					0.6	0.9				
PAD348000H	208/230	35 amps	22.9	15.5	21 / 2	3/8	1/4	1.5	3.2	22	1100	3500	79
PAD348000L	460	15 amps	10.5					0.8	1.9				
PAD360000H	208/230	40 amps	29.8	19.4	21 / 2	3/8	1/4	1.5	3.2	22	1100	4200	78
PAD360000L	460	20 amps	13.4					0.9	2.0				

MODEL NUMBER	Evaporator								Scroll Compressor		Factory Refrigerant Charge R-410A (lbs)	Shipping Weight (lbs)
	Coil			Motor		Blower						
	Face Area (ft. ²)	Fins Per Inch / Rows	Tube Diam. (inch)	HP	Full Load Amps	Size (inches)	RPM (Max)	CFM (Rated)	Rated Load Amps	Locked Rotor Amps		
PAD330000H	3.7	17 / 3	3/8	1/3	2.0	10 x 10	1050	1000	10.1	58.0	8.0	335 / 132
PAD336000H	3.7	17 / 4	3/8	1/2	4.1	10 x 10	1000	1200	9.2	71.0	9.2	353 / 160
PAD336000L					1.9				5.6	38.0		
PAD342000H	4.7	17 / 3	3/8	1/2	4.1	11 x 10	1075	1400	13.5	88.0	8.8	421 / 191
PAD342000L					1.9				6.0	44.0		
PAD348000H	5.7	17 / 3	3/8	1/2	4.1	11 x 10	1075	1600	13.8	83.1	9.0	436 / 198
PAD348000L					1.9				6.2	41.0		
PAD360000H	5.7	17 / 4	3/8	1.0	6.2	11 x 10	1040	1750	17.7	110.0	10.5	466 / 211
PAD360000L					2.7				7.8	52.0		

PRESSURE SWITCHES		
Switch Type	Cut-out Pressure (PSIG)	Reset (automatic) Pressure (PSIG)
High	650 +/- 15	420 +/- 15
Loss of Charge (Low)	20 +/- 5	45 +/- 10

UNIT AIRFLOW, Horizontal and Downflow Discharge, 230 Volts, Dry Coil

Model	Motor Speed		External Static Pressure (Inches Water Column)								
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
PAD330	Low	CFM	935	885	820	757	686	583	423	263	---
	Medium ¹	CFM	1195	1155	1100	1028	957	868	769	647	365
	High	CFM	1484	1421	1368	1279	1185	1088	970	853	712
PAD336	Low ¹	CFM	1242	1170	1089	994	917	837	702	570	442
	Medium	CFM	1320	1244	1162	1081	1005	897	767	662	541
	High	CFM	1362	1288	1205	1119	1033	933	826	714	580
PAD342	Low ¹	CFM	1405	1370	1330	1283	1230	1171	1106	1034	957
	Medium	CFM	1593	1552	1505	1452	1394	1330	1260	1184	1102
	High	CFM	1764	1710	1652	1591	1525	1456	1383	1306	1225
PAD348	Low	CFM	1550	1530	1493	1461	1414	1361	1320	1250	1177
	Medium ¹	CFM	1798	1771	1734	1687	1645	1595	1530	1449	1355
	High	CFM	2124	2071	2000	1944	1876	1811	1735	1647	1555
PAD360	Low	CFM	1550	1530	1493	1461	1414	1361	1320	1250	1177
	Medium ¹	CFM	1798	1771	1734	1687	1645	1595	1530	1449	1355
	High	CFM	2124	2071	2000	1944	1876	1811	1735	1647	1555

* Air delivery values are without air filter and are for dry coil (See Pressure Drop tables). Deduct field-supplied air filter pressure drop and wet coil pressure drop to obtain external static pressure available for ducting.

1. Factory-shipped cooling speed

FILTER PRESSURE DROP																			
FILTER SIZE	CFM																		
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
	Pressure Drop (inches water column)																		
20 x 24 x 1	—	—	—	—	0.09	0.1	0.11	0.13	0.14	0.15	0.16	—	—	—	—	—	—	—	—
24 x 30 x 1	—	—	—	—	—	—	—	0.07	0.08	0.09	0.1	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18
24 x 36 x 1	—	—	—	—	—	—	—	0.06	0.07	0.07	0.08	0.09	0.09	0.10	0.11	0.12	0.13	0.14	0.14

Minimum Filter Requirements:

20 x 24 x 1 = PAD324, PAD330

24 x 30 x 1 = PAD336

20 x 36 x 1 = PAD342, PAD348, PAD360

ELECTRIC HEATER USAGE CHART							
Electric Heater Model Number	Nominal Capacity (kW)	Fuses	Used With Model Sizes				
			30	36	42	48	60
ELECTRIC HEATERS for 208/230—3—60							
EHNA05H0N	5.0	0	✓	✓	✓	✓	✓
EHNA10H0N	10.0	0	✓	✓	✓	✓	✓
EHNA15H0N	15.0	0	✓	✓	✓	✓	✓
EHNA20H6F	20.0	6			✓	✓	✓
ELECTRIC HEATERS for 460—3—60							
EHNA05L0N	5.0	0		✓	✓	✓	✓
EHNA10L0N	10.0	0		✓	✓	✓	✓
EHNA15L0N	15.0	0		✓	✓	✓	✓
EHNA20L0N	20.0	0			✓	✓	✓

ELECTRIC HEATER ELECTRICAL DATA							
MODEL SIZE	NOMINAL VOLTAGE	VOLTAGE RANGE		ELECTRIC HEAT (208V / 230V)		POWER SUPPLY (208V / 230V)	
		MIN	MAX	NOMINAL kW	Full Load Ampacity	Minimum Circuit Ampacity	Maximum Over-Current Protection
30	208/230-3-60	187	253	- / -	- / -	15.5 / 15.5	25
				3.8 / 5	10.4 / 12.0	15.5 / 17.5	25 / 25
				7.5 / 10	20.8 / 24.1	28.5 / 32.6	30 / 35
				11.3 / 15	31.3 / 36.1	41.6 / 47.6	45 / 50
36	208/230-3-60	187	253	- / -	- / -	16.5 / 16.5	25
				3.8 / 5	10.4 / 12.0	18.1 / 20.1	25 / 25
				7.5 / 10	20.8 / 24.1	31.1 / 35.3	35 / 40
				11.3 / 15	31.3 / 36.1	44.3 / 50.3	45 / 60
36	460-3-60	414	506	-	-	9.6	15
				5	6.0	9.9	15
				10	12.0	17.4	20
				15	18.0	24.9	25
42	208/230-3-60	187	253	- / -	- / -	21.9 / 21.9	30
				3.8 / 5	10.4 / 12.0	21.9 / 21.9	30 / 30
				7.5 / 10	20.8 / 24.1	31.1 / 35.3	35 / 40
				11.3 / 15	31.3 / 36.1	44.3 / 50.3	45 / 60
				15 / 20	41.4 / 47.9	56.9 / 65.0	60 / 70
42	460-3-60	414	506	-	-	10.0	15
				5	6.0	10.0	15
				10	12.0	17.4	20
				15	18.0	24.9	25
				20	24.1	32.4	35
48	208/230-3-60	187	253	- / -	- / -	22.9 / 22.9	35
				3.8 / 5	10.4 / 12.0	22.9 / 22.9	35 / 35
				7.5 / 10	20.8 / 24.1	31.1 / 35.2	35 / 35
				11.3 / 15	31.3 / 36.1	44.3 / 50.3	45 / 50
				15 / 20	41.4 / 47.9	56.9 / 65.0	60 / 70
48	460-3-60	414	506	-	-	10.5	15
				5	6.0	10.5	15
				10	12.0	17.4	20
				15	18.0	24.9	25
				20	24.1	32.4	35
60	208/230-3-60	187	253	- / -	- / -	29.8 / 29.8	40
				3.8 / 5	10.4 / 12.0	29.8 / 29.8	40 / 40
				7.5 / 10	20.8 / 24.1	33.8 / 37.9	40 / 40
				11.3 / 15	31.3 / 36.1	46.9 / 52.9	50 / 60
				15 / 20	41.4 / 47.9	59.5 / 67.6	60 / 70
60	460-3-60	414	506	-	-	13.3	20
				5	6.0	13.3	20
				10	12.0	18.4	20
				15	18.0	25.9	30
				20	24.1	33.4	35

PAD330 COOLING PERFORMANCE													
CONDENSER ENTERING AIR TEMPERATURES °F (°C)													
EVAPORATOR AIR		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)		
CFM BF	Ewb	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW
		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
875 0.009	57	27.63	27.63	2.04	26.49	26.49	2.25	25.27	25.27	2.49	23.94	23.94	2.74
	62	28.17	25.17	2.04	26.78	24.51	2.25	25.33	25.15	2.49	23.94	23.94	2.74
	63	28.67	20.21	2.04	27.24	19.59	2.25	25.71	18.94	2.49	24.08	18.25	2.74
	67	30.82	20.91	2.05	29.28	20.29	2.26	27.63	19.63	2.49	25.87	18.95	2.75
	72	33.80	16.64	2.05	32.10	16.03	2.27	30.28	15.38	2.50	28.36	14.71	2.75
1000 0.013	57	28.69	28.69	2.09	27.47	27.47	2.31	26.16	26.16	2.54	24.74	24.74	2.79
	62	28.77	28.54	2.09	27.47	27.47	2.31	26.16	26.16	2.54	24.74	24.74	2.79
	63	29.16	21.52	2.09	27.67	20.88	2.31	26.07	20.22	2.54	24.38	19.51	2.79
	67	31.33	22.30	2.10	29.72	21.67	2.31	28.00	21.00	2.55	26.18	20.30	2.80
	72	34.34	17.47	2.10	32.57	16.84	2.32	30.67	16.18	2.55	28.68	15.50	2.81
1125 0.019	57	29.57	29.57	2.15	28.28	28.28	2.36	26.88	26.88	2.59	25.39	25.39	2.85
	62	29.56	29.56	2.15	28.27	28.27	2.36	26.88	26.88	2.59	25.39	25.39	2.85
	63	29.52	22.77	2.15	27.98	22.13	2.36	26.34	21.44	2.59	24.60	20.72	2.85
	67	31.70	23.65	2.15	30.03	23.00	2.36	28.26	22.32	2.60	26.40	21.60	2.85
	72	34.73	18.26	2.16	32.90	17.63	2.37	30.94	16.96	2.60	28.89	16.27	2.86
PAD336 COOLING PERFORMANCE													
CONDENSER ENTERING AIR TEMPERATURES °F (°C)													
EVAPORATOR AIR		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)		
CFM BF	Ewb	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW
		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
1050 0.002	57	32.76	32.76	2.31	31.53	31.53	2.56	30.22	30.22	2.84	28.82	28.82	3.15
	62	33.56	29.11	2.31	32.01	28.44	2.56	30.39	27.73	2.84	28.82	28.82	3.15
	63	34.27	23.75	2.31	32.67	23.09	2.56	30.98	22.40	2.84	29.20	21.68	3.15
	67	36.87	24.54	2.31	35.16	23.89	2.57	33.36	23.20	2.85	31.45	22.49	3.15
	72	40.54	19.93	2.32	38.69	19.28	2.58	36.71	18.60	2.85	34.62	17.89	3.16
1200 0.004	57	34.22	34.22	2.36	32.89	32.89	2.62	31.49	31.49	2.90	29.98	29.98	3.20
	62	34.37	31.46	2.36	32.89	32.89	2.62	31.49	31.49	2.90	29.98	29.98	3.20
	63	34.97	25.40	2.37	33.30	24.72	2.62	31.54	24.02	2.90	29.68	23.28	3.20
	67	37.61	26.29	2.37	35.82	25.62	2.62	34.00	24.93	2.90	31.94	24.19	3.21
	72	41.33	21.04	2.38	39.38	20.37	2.63	37.31	19.68	2.91	35.13	18.95	3.22
1350 0.008	57	35.44	35.44	2.42	34.03	34.03	2.68	32.53	32.53	2.95	30.93	30.93	3.26
	62	35.44	35.44	2.42	34.03	34.03	2.68	32.53	32.53	2.95	30.93	30.93	3.26
	63	35.50	26.99	2.42	33.77	26.30	2.68	31.95	25.59	2.95	30.03	24.83	3.26
	67	38.16	27.99	2.43	36.31	27.31	2.68	34.36	26.60	2.96	32.30	25.85	3.27
	72	41.91	22.10	2.44	39.89	21.42	2.69	37.74	20.71	2.97	35.48	19.98	3.27

– refer to Legend, Notes, and Formulas at the end of the chart –

PAD342 COOLING PERFORMANCE

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																							
		75 (23.9)				85 (29.4)				95 (35)				105 (40.6)				115 (46.1)				125 (51.7)			
		Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW			
Total	Sens	Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
CFM BF	Ewb	57	39.26	39.26	2.88	37.63	37.63	3.20	35.88	35.88	3.55	34.00	34.00	3.94	31.96	31.96	4.35	29.76	29.76	4.80	4.80				
		62	40.35	36.68	2.89	38.34	35.70	3.21	36.22	34.64	3.56	34.03	33.95	3.94	31.96	31.96	4.35	29.76	29.76	4.80	4.80				
		63	41.07	29.58	2.90	39.00	28.64	3.22	36.79	27.65	3.56	34.46	26.62	3.94	31.99	25.54	4.35	29.39	24.41	4.79	4.79				
		67	44.14	30.58	2.93	41.87	29.62	3.24	39.47	28.62	3.59	36.94	27.57	3.97	34.25	26.48	4.37	31.44	25.34	4.81	4.81				
		72	48.32	24.44	2.96	45.81	23.49	3.28	43.17	22.50	3.63	40.38	21.47	4.00	37.41	20.39	4.41	34.32	19.28	4.84	4.84				
1225 0.011	57	40.77	40.77	2.97	39.02	39.02	3.29	37.13	37.13	3.64	35.10	35.10	4.02	32.92	32.92	4.44	30.58	30.58	4.88	4.88					
	62	41.18	39.33	2.98	39.13	38.81	3.29	37.13	37.13	3.64	35.10	35.10	4.02	32.92	32.92	4.44	30.58	30.58	4.88	4.88					
	63	41.80	31.43	2.98	39.62	30.46	3.30	37.31	29.45	3.64	34.89	28.39	4.02	32.32	27.28	4.43	29.64	26.11	4.87	4.87					
	67	44.88	32.54	3.01	42.50	31.56	3.32	40.00	30.54	3.67	37.37	29.47	4.05	34.58	28.34	4.45	31.68	27.18	4.89	4.89					
	72	49.11	25.59	3.05	46.48	24.62	3.36	43.73	23.62	3.71	40.83	22.57	4.08	37.75	21.47	4.49	34.56	20.35	4.92	4.92					
1400 0.016	57	42.02	42.02	3.06	40.15	40.15	3.38	38.14	38.14	3.73	35.99	35.99	4.11	33.68	33.68	4.52	31.22	31.22	4.96	4.96					
	62	42.02	42.02	3.06	40.14	40.14	3.38	38.14	38.14	3.73	35.99	35.99	4.11	33.68	33.68	4.52	31.22	31.22	4.96	4.96					
	63	42.32	33.20	3.06	40.06	32.21	3.38	37.68	31.17	3.72	35.19	30.08	4.10	32.55	28.93	4.51	29.81	27.71	4.95	4.95					
	67	45.41	34.43	3.09	42.95	33.43	3.40	40.37	32.39	3.75	37.66	31.29	4.12	34.80	30.13	4.53	31.84	28.92	4.97	4.97					
	72	49.67	26.70	3.13	46.95	25.71	3.44	44.12	24.70	3.79	41.12	23.64	4.16	37.96	22.53	4.56	34.69	21.39	5.00	5.00					

PAD348 COOLING PERFORMANCE

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F (°C)																							
		75 (23.9)				85 (29.4)				95 (35)				105 (40.6)				115 (46.1)				125 (51.7)			
		Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW			
Total	Sens	Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
1400 0.009	Ewb	57	46.24	46.24	3.34	44.25	44.25	3.75	42.10	42.10	4.20	39.79	39.79	4.69	37.27	37.27	5.21	34.57	34.57	5.77					
		62	47.38	41.31	3.34	44.96	40.19	3.75	42.39	38.97	4.20	39.78	39.78	4.69	37.27	37.27	5.21	34.57	34.57	5.77					
		63	48.22	33.26	3.35	45.72	32.19	3.76	43.06	31.05	4.20	40.24	29.86	4.69	37.23	28.61	5.21	34.06	27.31	5.77					
		67	51.54	34.27	3.36	48.83	33.18	3.77	45.97	32.05	4.22	42.91	30.85	4.70	39.67	29.60	5.22	36.28	28.30	5.77					
		72	56.08	27.21	3.37	53.10	26.13	3.78	49.97	25.02	4.23	46.62	23.85	4.71	43.09	22.63	5.23	39.41	21.38	5.78					
1600 0.014		57	47.90	47.90	3.43	45.77	45.77	3.84	43.47	43.47	4.29	40.98	40.98	4.77	38.30	38.30	5.29	35.44	35.44	5.85					
		62	48.26	44.29	3.43	45.80	45.74	3.84	43.46	43.46	4.29	40.98	40.98	4.77	38.30	38.30	5.29	35.44	35.44	5.85					
		63	48.98	35.32	3.43	46.37	34.22	3.84	43.61	33.07	4.29	40.67	31.85	4.77	37.56	30.57	5.29	34.30	29.23	5.85					
		67	52.30	36.46	3.44	49.48	35.36	3.85	46.50	34.20	4.30	43.33	32.98	4.78	39.99	31.70	5.30	36.50	30.37	5.86					
		72	56.88	28.48	3.46	53.77	27.39	3.87	50.52	26.26	4.31	47.05	25.07	4.79	43.40	23.84	5.31	39.62	22.58	5.86					
1800 0.020		57	49.26	49.26	3.51	46.99	46.99	3.93	44.56	44.56	4.37	41.93	41.93	4.86	39.11	39.11	5.38	36.11	36.11	5.94					
		62	49.26	49.26	3.51	46.99	46.99	3.93	44.56	44.56	4.37	41.93	41.93	4.86	39.11	39.11	5.38	36.11	36.11	5.94					
		63	49.52	37.31	3.52	46.82	36.18	3.93	43.98	35.00	4.37	40.96	33.76	4.86	37.78	32.44	5.38	34.46	31.03	5.93					
		67	52.84	38.59	3.53	49.92	37.46	3.94	46.86	36.28	4.38	43.60	35.04	4.87	40.18	33.72	5.38	36.63	32.34	5.94					
		72	57.43	29.71	3.54	54.22	28.61	3.95	50.88	27.47	4.40	47.31	26.27	4.88	43.58	25.03	5.39	39.71	23.76	5.94					

– refer to Legend, Notes, and Formulas at the end of the chart –

PAD360 COOLING PERFORMANCE																			
EVAPORATOR AIR				CONDENSER ENTERING AIR TEMPERATURES °F (°C)															
CFM BF	Ewb	75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)		
		Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW	Capacity BTU/h x 1000		Total System kW
		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens		Total	Sens	
1750 0.010	57	57.18	57.18	4.12	54.74	54.74	4.57	52.17	52.17	5.08	49.44	49.44	5.62	46.49	46.49	6.21	43.26	43.26	6.85
	62	58.24	53.17	4.13	55.28	51.82	4.58	52.26	51.82	5.08	49.44	49.44	5.62	46.49	46.49	6.21	43.26	43.26	6.85
	63	59.21	43.22	4.14	56.15	41.90	4.59	52.95	40.53	5.08	49.60	39.12	5.62	46.07	37.65	6.21	42.28	36.10	6.84
	67	63.23	44.50	4.18	59.93	43.17	4.63	56.50	41.81	5.13	52.90	40.40	5.67	49.09	38.93	6.25	45.01	37.38	6.87
	72	68.86	35.81	4.24	65.24	34.48	4.69	61.48	33.13	5.19	57.53	31.73	5.72	53.35	30.27	6.30	48.86	28.73	6.92
2000 0.016	57	59.38	59.38	4.25	56.75	56.75	4.70	53.98	53.98	5.21	51.04	51.04	5.75	47.89	47.89	6.34	44.43	44.43	6.97
	62	59.48	57.25	4.25	56.75	56.75	4.70	53.98	53.98	5.21	51.04	51.04	5.75	47.89	47.89	6.34	44.43	44.43	6.97
	63	60.17	46.05	4.25	56.97	44.70	4.70	53.64	43.31	5.20	50.17	41.87	5.74	46.52	40.37	6.32	42.63	38.78	6.95
	67	64.20	47.51	4.29	60.76	46.16	4.75	57.19	44.78	5.24	53.46	43.34	5.78	49.53	41.85	6.36	45.33	40.26	6.98
	72	69.84	37.64	4.35	66.07	36.31	4.81	62.17	34.94	5.30	58.07	33.52	5.84	53.75	32.04	6.41	49.12	30.48	7.03
2250 0.022	57	61.17	61.17	4.37	58.37	58.37	4.83	55.44	55.44	5.33	52.32	52.32	5.88	48.98	48.98	6.46	45.33	45.33	7.09
	62	61.16	61.16	4.37	58.37	58.37	4.83	55.43	55.43	5.33	52.32	52.32	5.88	48.98	48.98	6.46	45.33	45.33	7.09
	63	60.89	48.82	4.37	57.57	47.44	4.82	54.15	46.02	5.31	50.59	44.55	5.85	46.85	43.00	6.43	42.92	41.27	7.06
	67	64.91	50.45	4.41	61.36	49.08	4.86	57.69	47.67	5.36	53.86	46.21	5.89	49.84	44.67	6.47	45.58	43.00	7.09
	72	70.53	39.43	4.47	66.65	38.07	4.92	62.63	36.69	5.42	58.41	35.26	5.95	53.97	33.76	6.52	49.23	32.19	7.14

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

* 63°F Ewb is at 75°F entering dry bulb – Tennessee Valley Authority [TVA] rating conditions; all others at 80°F entering dry bulb.

LEGEND: BF — Bypass Factor Ewb — Entering Wet Bulb kW — Total Unit Power Input SHC — Sensible Heat Capacity (x1000 Btu/h) TC — Total Capacity (x1000 Btu/h) (net)

NOTES:

1. Ratings are net; they account for the effects of the evaporator fan motor power and heat.
2. Direct interpolation is permissible. Do not extrapolate.
3. The following formulas may be used:

$$t_{ldb} = t_{edb} - \frac{\text{Sensible Capacity (BTU/h)}}{1.10 \times \text{cfm}}$$

$$t_{lwb} = \text{Wet bulb temperature corresponding to enthalpy of air leaving evaporator coil } (h_{lwb})$$

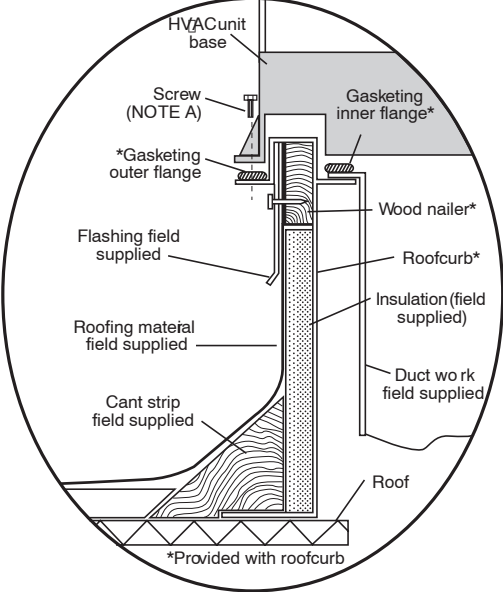
4. The SHC is based on 80°F Edb temperature of air entering evaporator coil.
Below 80°F Edb, subtract (corr factor x cfm) from SHC.
Above 80°F Edb, add (corr factor x cfm) to SHC. Correction Factor = 1.10 x (1 + BF) x (Edb + 80).

$$h_{lwb} = h_{Ewb} - \frac{\text{Total Capacity (BTU/h)}}{4.5 \times \text{cfm}}$$

Where: h_{Ewb} = Enthalpy of air entering evaporator coil

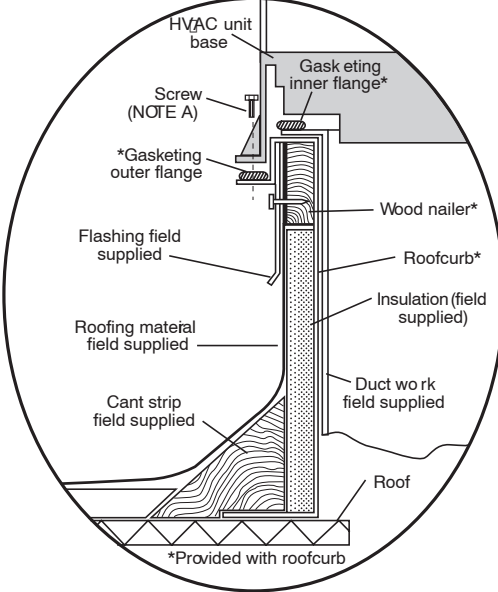
ACCESSORIES	
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ROOF CURBS



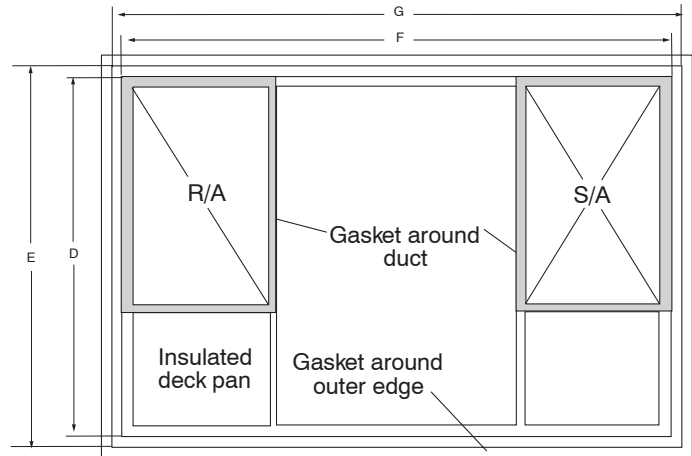
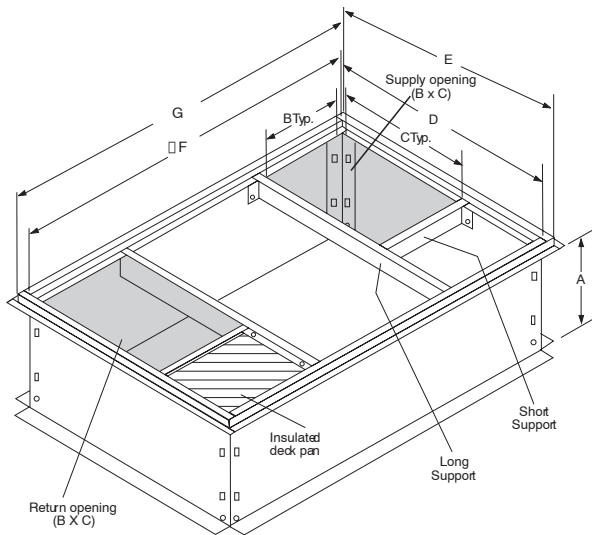
Roof Curb for Small Cabinet

Note A: When unit mounting screw is used
retainer bracket must also be used.



Roof Curb for Large Cabinet

Note A: When unit mounting screw is used
retainer bracket must also be used.



UNIT SIZE	MODEL NUMBER	A IN. [MM]	B IN. [MM]	C IN. [MM]	D IN. [MM]	E IN. [MM]	F IN. [MM]	G IN. [MM]
30, 36	NPRFCURB006A00	8 [203]	11 [279]	16-1/2 [419]	28-3/4 [730]	30-3/8 [771]	44-5/16 [1126]	45-15/16 [1167]
	NPRFCURB007A00	14 [356]	11 [279]	16-1/2 [419]	28-3/4 [730]	30-3/8 [771]	44-5/16 [1126]	45-15/16 [1167]
42, 48, 60	NPRFCURB008A00	8 [203]	16-3/16 [411]	17-3/8 [441]	40-1/4 [1022]	41-15/16 [1065]	44-7/16 [1129]	46-1/16 [1169]
	NPRFCURB009A00	14 [356]	16-3/16 [411]	17-3/8 [441]	40-1/4 [1022]	41-15/16 [1065]	44-7/16 [1129]	46-1/16 [1169]

Notes:

1. Seal strip must be applied as required to unit being installed.
2. Roof curb is made of 16 gauge steel.
3. Attach ductwork to curb (flanges of duct rest on curb).
4. Insulated panels: 1—in. thick fiberglass 1 lb. density.
5. When unit mounting screw is used (see Note A), a retainer bracket must be used as well. This bracket must also be used when required by code for hurricane or seismic conditions. This bracket is available through Micrometl.

ACCESSORIES (continued)

ECONOMIZERS (ALL FULLY MODULATING)

Part Number	Application	Control	Use With Model Size
NPECOMZR003A00	Horizontal, convertible to Downflow	Dry Bulb (Enthalpy Control optional)	30, 36
NPECOMZR004A00			42
NPECOMZR006A00			48, 60

All Economizers include Filter Racks but do not include filters.

MANUAL FRESH AIR DAMPERS (use in DOWNFLOW application only) *

Model Number	Control	Use With Model Size
NPMANDPR004A00	Manual	30, 36
NPMANDPR005A00		42
NPMANDPR006A00		48, 60

* Unit must have internal filters to protect evaporator coil when Fresh Air Damper is installed.
All Manual Fresh Air Dampers shipped with Filter Racks but without Filters.

FILTER RACK and FILTER (shipped with 1" filters)

Model Number	Application	Filter Size	Use With Model Size
NPFILTRK004A00	Horizontal or Downflow	12" x 20" x 1" (quan. 2) or 12" x 20" x 2" (quan. 1) PLUS 10" x 20" x 2" (quan.1)	30, 36
NPFILTRK005A00		12" x 24" x 1" or 2" (3 required)	42
NPFILTRK006A00		12" x 24" x 1" or 2" (3 required)	48, 60

CONCENTRIC ADAPTER

Model Number	Description	Use With Model Size
AXB030CTA	Adapts downflow openings thru the curb into round duct (18" dia.)	ALL

CONCENTRIC DIFFUSER

Model Number	Description	Use With Model Size
AXB030CSA	STEP DOWN - Adapts round duct (18" dia.) to ceiling diffuser	ALL
AXB030CFA	FLUSH MOUNT - Adapts round duct (18" dia.) to ceiling diffuser	ALL

SQUARE to ROUND TRANSITION

Model Number	Round Size	Square Size	Use With Model Size
NPDUCLG002A00	14"	14" x 16"	30, 36, 42, 48

ANTI-CYCLE TIMER

Model Number	Description	Use With Model Size
NRTIMEGD001A00	5 minute anti-cycle timer (Note: many thermostats have inherent anti-cycle timer logic)	ALL

CRANKCASE HEATER

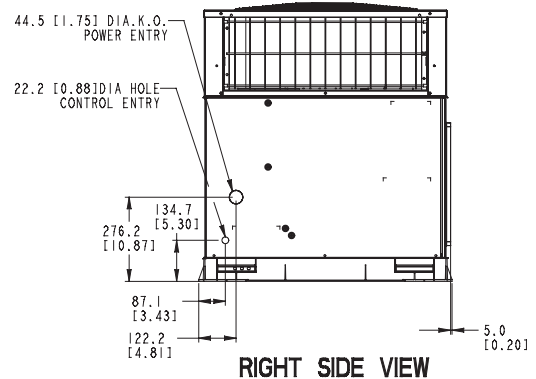
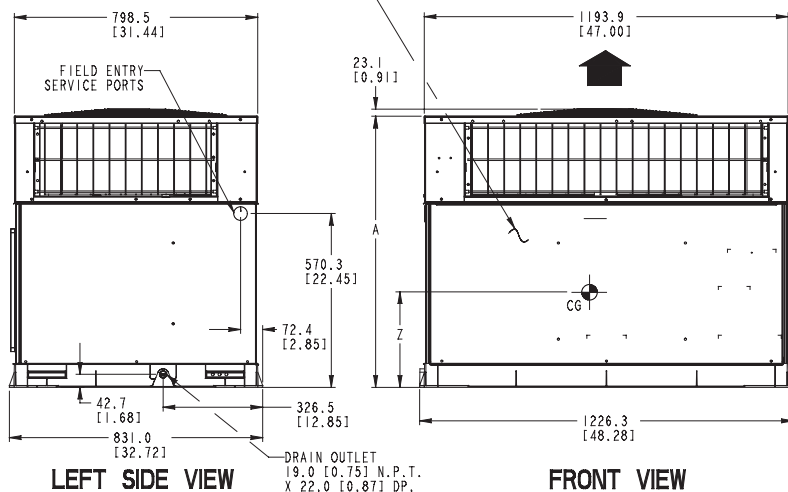
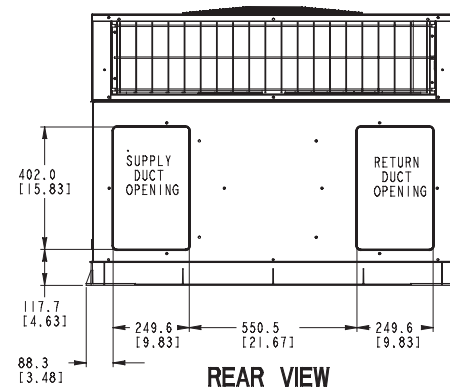
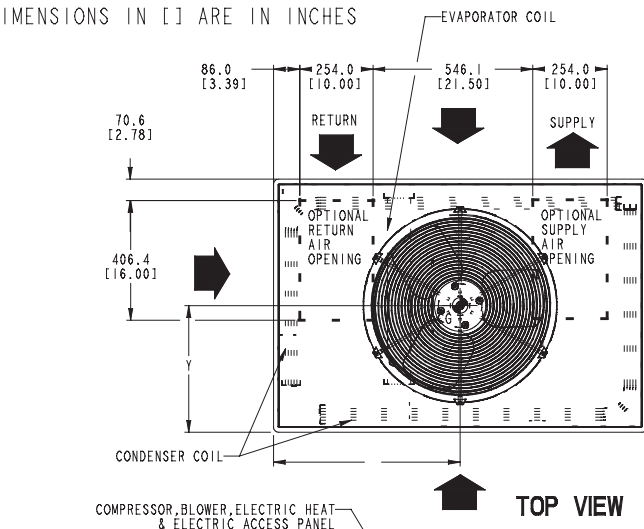
Model Number	Description	Use With Model Size
NPCRKHTR004A00	Belly-band type electric heater, 208/230 V	42 - 208/230 Volts only
NPCRKHTR008A00	Belly-band type electric heater, 208/230 V	30 - 208/230 Volts only
NPCRKHTR005A00	Belly-band type electric heater, 460 V	42 - 460 Volts only

LIFTING / RIGGING KIT

Model Number	Description	Use With Model Size
NPLIFTBK003A10	Lifting / Rigging Kit (Set of 10)	ALL

UNIT DIMENSIONS, model sizes 30, 36

DIMENSIONS IN [] ARE IN INCHES



REQUIRED CLEARANCE TO COMBUSTIBLE MATERIAL
(Refer to Maximum Operating Clearances)
TOP OF UNIT
DUCT SIDE OF UNIT
SIDE OPPOSITE DUCTS
BOTTOM OF UNIT

INCHES (MM)
14.0 (356)
2.0 (51)
14.0 (356)
.50 (13)

NEC REQUIRED CLEARANCES

BETWEEN UNITS, POWER ENTRY SIDE
UNIT AND UNGROUNDED SURFACES, POWER ENTRY SIDE
GROUNDED SURFACES, POWER ENTRY SIDE

INCHES (MM)
42.0 (1067)
36.0 (914)
42.0 (1067)

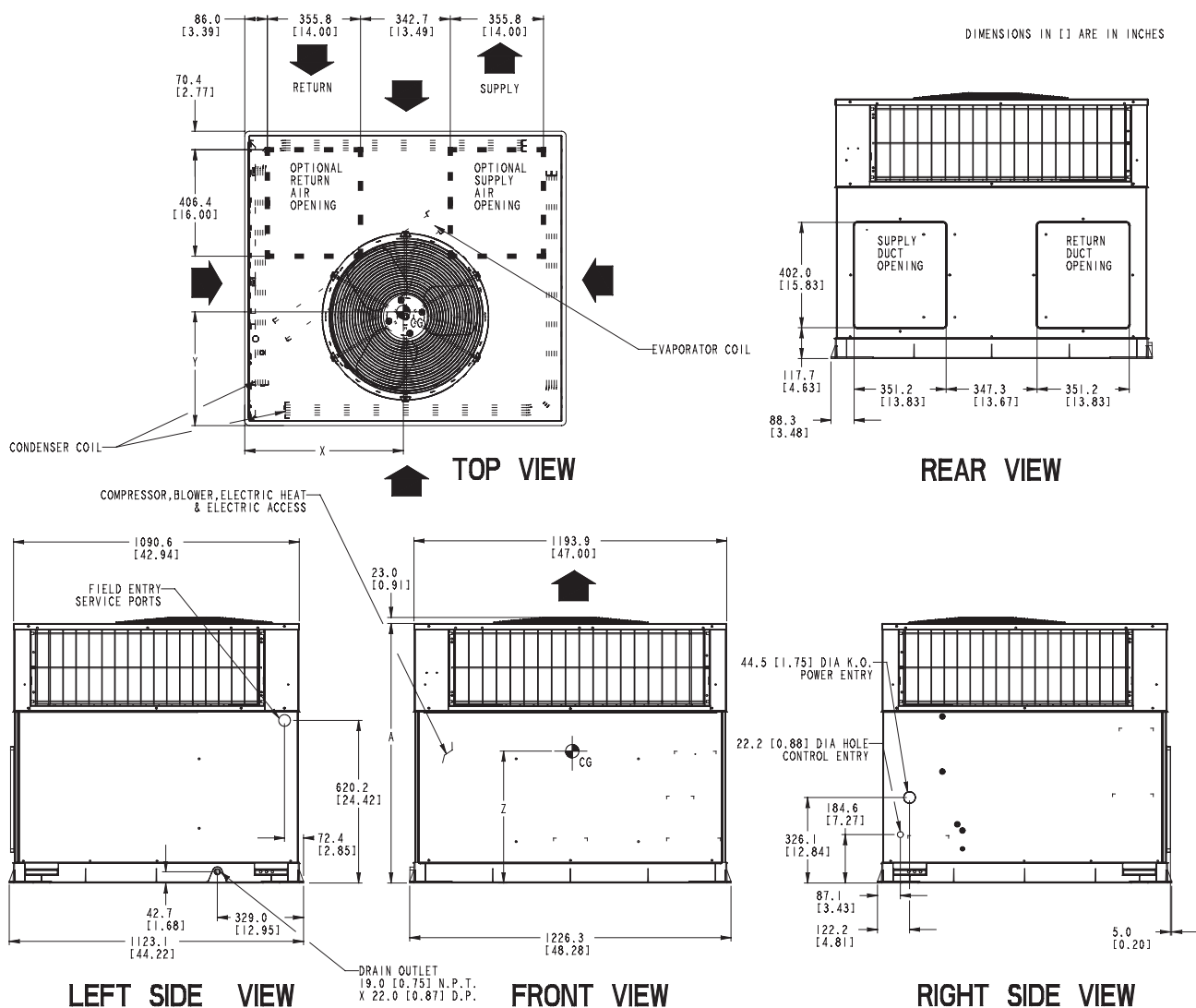
REQUIRED CLEARANCE FOR OPERATION AND SERVICING
INCHES (MM)
EVAP. COIL ACCESS SIDE
POWER ENTRY SIDE
(EXCEPT FOR NEC REQUIREMENTS)
UNIT TOP
SIDE OPPOSITE DUCTS
DUCT PANEL

INCHES (MM)
36.0 (914)
42.0 (1067)
48.0 (1219)
36.0 (914)
12.0 (305)

*MINIMUM DISTANCES: IF UNIT IS PLACED LESS THAN 304.8 [12.00] FROM WALL SYSTEM, THEN SYSTEM PERFORMANCE MAYBE COMPROMISE.

Model Size	UNIT HEIGHT inches [mm]	CENTER OF GRAVITY inches [mm]		
	A	X	Y	Z
30	39.02 [991]	23.3 [591.8]	15.7 [398.8]	15.8 [401.3]
36	42.98 [1092]	22.6 [574.0]	15.8 [401.3]	16.6 [421.6]

UNIT DIMENSIONS, model sizes 42, 48, 60



REQUIRED CLEARANCE TO COMBUSTIBLE MATERIAL
(Refer to Maximum Operating Clearances)
TOP OF UNIT
DUCT SIDE OF UNIT
SIDE OPPOSITE DUCTS
BOTTOM OF UNIT

NEC REQUIRED CLEARANCES

BETWEEN UNITS, POWER ENTRY SIDE
UNIT AND UNGROUNDED SURFACES, POWER ENTRY SIDE
GROUNDED SURFACES, POWER ENTRY SIDE

INCHES (MM)
14.0 (356)
2.0 (51)
14.0 (356)
.50 (13)

INCHES (MM)
42.0 (1067)
36.0 (914)
42.0 (1067)

REQUIRED CLEARANCE FOR OPERATION AND SERVICING
EVAP. COIL ACCESS SIDE
POWER ENTRY SIDE
(EXCEPT FOR NEC REQUIREMENTS)
UNIT TOP
SIDE OPPOSITE DUCTS
DUCT PANEL

INCHES (MM)
36.0 (914)
42.0 (1067)
48.0 (1219)
36.0 (914)
12.0 (305)

*MINIMUM DISTANCES: IF UNIT IS PLACED LESS THAN 304.8 [12.00] FROM WALL SYSTEM, THEN SYSTEM PERFORMANCE MAYBE COMPROMISE.

Model Size	UNIT HEIGHT inches [mm]	CENTER OF GRAVITY inches [mm]		
	A	X	Y	Z
42	42.98 [1092]	25.5 [647.7]	15.2 [286.1]	17.1 [434.3]
48	42.98 [1092]	24.9 [632.5]	15.5 [393.7]	17.4 [442.0]
60	46.98 [1193]	25.5 [647.7]	15.5 [393.7]	17.6 [447.0]

GUIDE SPECIFICATIONS

CABINET

Unit cabinet shall be constructed of phosphated, zinc-coated, pre-painted steel capable of with-standing 500 hours in salt spray. Normal service shall be through a single removable cabinet panel. The unit shall be constructed on a rust proof unit base that has an externally trapped, integrated sloped drain.

Evaporator fan compartment top surface shall be insulated with a minimum 1/2-in. thick, flexible fiberglass insulation, coated on the air side and retained by adhesive and mechanical means. The evaporator wall sections will be insulated with a minimum semi-rigid foil-faced board capable of being wiped clean. Aluminum foil-faced fiberglass insulation shall be used in the entire indoor air cavity section.

COOLING SECTION

The unit is factory charged and operationally ready upon delivery. The unit refrigerant circuit has a high efficiency scroll compressor with internal overload protection, and copper tube / aluminum fin evaporator and condenser coils. The unit is designed for cooling operation to 40° F and will be capable of being wired for field installed economizer type accessories.

COILS

The evaporator and condenser coils are fabricated with aluminum fins mechanically bonded to copper tubing. Both coils are pressure tested prior to assembly into the unit and electronically leak tested after assembly into the unit.

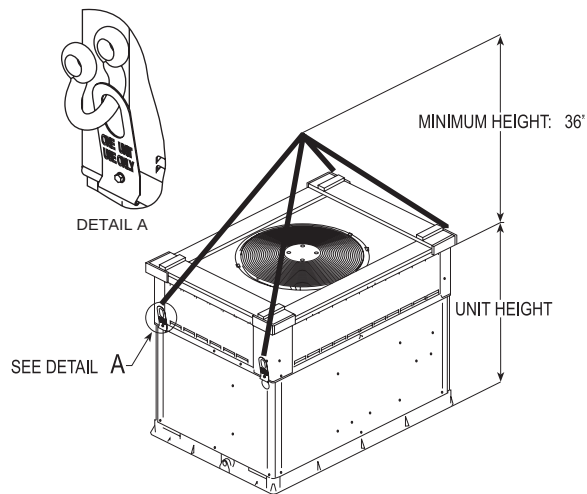
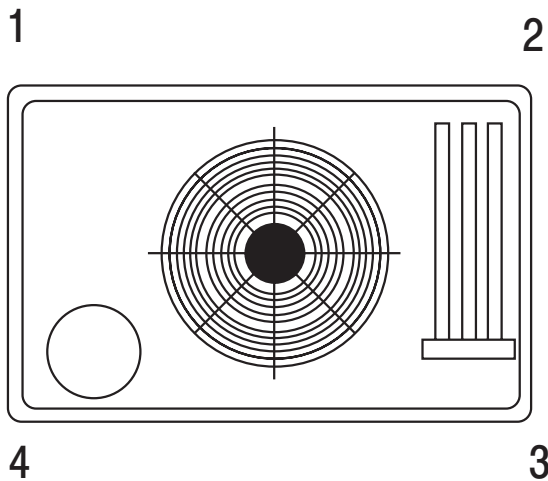
CONDENSER FAN

The unit has a single direct-drive propeller-fan / motor assembly. The assembly is mounted directly to a vertical-discharge grille that is easily removed for service. Motors are 825 - 1100 RPM with sleeve or ball bearings and internal overload protection.

EVAPORATOR BLOWER

All units have a PSC evaporator blower motor. The direct-drive evaporator blower motor has sleeve bearings and internal overload protection.

CORNER WEIGHTS and RIGGING DETAILS



C00070b

A06361

CORNER WEIGHTS (SMALL CABINET)					CORNER WEIGHTS (LARGE CABINET)						
Model Size	30		36		Model Size	42		48		60	
	lbs	kg	lbs	kg		lbs	kg	lbs	kg	lbs	kg
Operating Weight	281	127.4	299	135.6	Operating Weight	367	166.4	382	173.2	412	186.8
Corner Weight 1	50	22.6	62	28.2	Corner Weight 1	62	28.0	40	18.1	22	9.9
Corner Weight 2	85	38.5	82	37.3	Corner Weight 2	109	49.2	141	63.8	174	78.7
Corner Weight 3	70	31.6	78	35.2	Corner Weight 3	113	51.0	84	38.1	75	33.8
Corner Weight 4	77	34.7	77	34.9	Corner Weight 4	84	38.1	117	53.3	142	64.4
Rigging Weight	300	136.1	318	144.2	Rigging Weight	381	172.8	396	179.6	426	193.2
Shipping Weight	335	151.9	353	160.1	Shipping Weight	421	190.9	436	197.7	466	211.3

MODEL NOMENCLATURE										
MODEL SERIES	P	A	D	3	36	000	H	00	A	1
P = Package										
A = Air Conditioner										
D = R-410A										
3 = 13				SEER						
30 = 30,000 BTUH = 2.5 Tons										
36 = 36,000 BTUH = 3 Tons										
42 = 42,000 BTUH = 3.5 Tons										
48 = 48,000 BTUH = 4 Tons										
60 = 60,000 BTUH = 5 Tons					NOMINAL COOLING BTUH					
000 = N/A						NOMINAL HEATING BTUH				
H = 208/230-3-60										
L = 460-3-60							VOLTAGE			
00 = Standard									FACTORY INSTALLED OPTIONS	
Sales Model Digit										
Engineering Digit										