



PAPA Series SPECIFICATIONS

10 SEER
PACKAGE AIR CONDITIONER
3, 4, & 5 TON

SINGLE PACKAGE A/C - THREE PHASE

CONSTRUCTED FOR DURABILITY

- All panels made from galvanized steel pre-coated inside and out – using a polyester top coat, on a urethane primer, over an oxide pre-treatment
- All coils made from copper tube and aluminum fins
- Embossed water dam in base – prevents water migration to indoor section from condenser area
- Protective coil guard – standard

HIGH STATIC CAPABILITY

- Designed for standard or high static applications

EASY MAINTENANCE

- Slide out blower assembly for easy maintenance
- External gauge ports
- All electrical controls behind one access panel
- One panel allows access to clean evaporator and service all refrigeration components

QUALITY PERFORMANCE & RELIABILITY

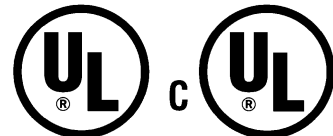
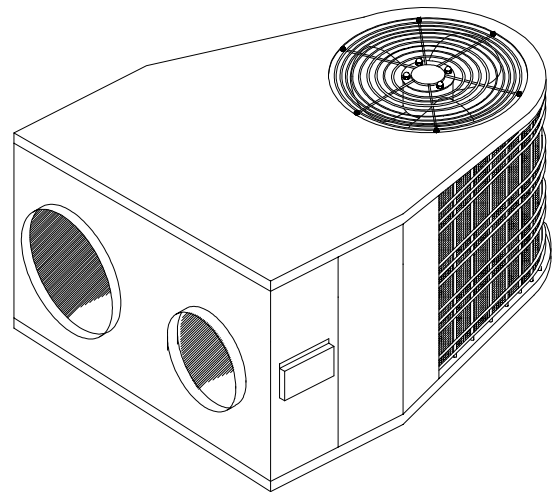
- Pre-painted condenser coil – provides greater corrosion resistance
- Plastic drain pan – minimizes residual condensate for improved humidity control and air quality

DESIGNED FOR EASY INSTALLATION

- Designed for commercial applications
- Round duct flanges with retainer bead for easy flex duct connection
- Low 26-1/2" height (max. 17" duct height) allows installation in tight spaces
- Multi-speed blower motor – adjustable to varying application requirements

ACCESSORIES

- Slip in electric heaters available with fuses
- Flexible duct & duct adder kits to adapt to most applications



Listed By Underwriters' Laboratories



Rated in accordance with ARI Standard 210. Certification applies only when used with proper components as listed with ARI.

WARRANTIES: (LIMITED)

Standard warranties of all parts are extended for a period of one year. The compressor is guaranteed for a period of five years against defects in workmanship or materials. Limited warranties applicable to this equipment are set forth in the Manufacturer's published warranty statement, which is available from our office (address on this literature) and from local distributors of our products in your area (see you phone directory).

UNIT SPECIFICATIONS

MODEL COOLING TONNAGE			PAPA36HA	PAPA48HA	PAPA60HA
Electrical Data:	208/230 Volt Data (Phase-Hz)		3-60	3-60	3-60
	Max. Fuse or NEC HACR Type Circuit Breaker		25	40	50
	Minimum Circuit Ampacity		18.2	27.8	34.8
Condenser Data:	Coil	Total Face Area (Sq. Ft.)	10.3	10.3	10.3
		Fins Per In. - Rows	16-1 ¹ / ₂	18-1 ¹ / ₂	18-2
		Tube Dia. (In.)	³ / ₈	³ / ₈	³ / ₈
	Fan Motor:	H.P. / Type	¹ / ₃ / PSC	¹ / ₃ / PSC	¹ / ₃ / PSC
		Full Load Amps.	1.8	1.7	1.7
	208/230 Volt Data (Phase-Hz)		1 - 60	1 - 60	1 - 60
	Fan:	Size (Dia./Blades/Pitch) (In.)	20 / 4 / 25	20 / 4 / 25	20 / 4 / 25
		RPM (Max.)	1120	1140	1140
Evaporator Data	Coil	Total Face Area (Sq. Ft.)	4	4	4
		Fins Per In. - Rows	14-3	14-4	14-4
		Tube Dia. (In.)	³ / ₈	³ / ₈	³ / ₈
	Blower Motor:	H.P / Type / Speeds	¹ / ₂ / PSC / 4	1 / PSC / 3	1 / PSC / 2
		Full Load Amps	3.6	6.3	4.5
	208/230 Volt Data (Phase-Hz)		1 - 60	1 - 60	1 - 60
	Blower	Type / Size	DD10 / 8	DD10 / 8	DD11 / 8
		CFM (Rated)	1200	1650	1900
		RPM (Max.)	1075	1075	1075
Compressor Data:	Running Load Amps.		10.3	14.3	19.3
	Locked Rotor Amps.		75	91	137
Factory Refrigerant Charge (Type R-22)			84 oz.	81 oz.	106 oz.
Weights	Shipping (lbs)		280	280	295

UNIT PERFORMANCE DATA

Model No.	Capacity ¹ BTUH	Sensible / Total Ratio	S.E.E.R.	E.E.R.	Power Input Watts	Evaporator Rated Air Flow CFM
PAPA36HA	34,200	.78	10.00	8.96	3817	1200
PAPA48HA	45,000	.80	10.00	8.79	5120	1600
PAPA60HA	55,800	.77	10.00	8.3	6723	1900

¹ Capacity Ratings based on ARI Test Standards. 95° F Amb. 80° DB / 67° FWB

BLOWER PERFORMANCE DATA

MODEL NUMBER		PAPA36HA				PAPA48HA			PAPA60HA	
Blower Speed		Lo	Med Lo	Med Hi	Hi	Lo	Med	Hi	Lo	Hi
AIR DELIVERY IN CFM	.25	1208	1373	1471	1589	1707	1827	1904	1919	2214
	.35	1190	1337	1427	1540	1651	1759	1822	1878	2139
VARYING EXT. STATIC PRESSURE (IN. W.C.)	.45	1176	1292	1379	1467	1577	1670	1736	1837	2050
	.55	1137	1260	1329	1411	1497	1572	1635	1789	1948
	.65	1085	1186	1256	1319	1417	1478	1530	1737	1866
	.75	1019	1109	1181	1235	1322	1377	1411	1692	1808

Air delivery against shown external static pressures taken with 230V. to unit, dry coil and equipped with approved heater. For wet coils add .05" W.C to Ext. Static Press. measurement.

NOTE: For 208 Volt applications, reduce airflow by 15%.

FORMULAS AND NOTES FOR USING EXPANDED PERFORMANCE DATA

To find leaving wet bulb and dry bulb from the expanded performance charts on the next two pages, use the following formulas. Direct interpolation is permissible. Do not extrapolate.

$$t_{db} = t_{edb} - \frac{\text{sensible capacity (Btuh)}}{1.10 \times \text{cfm}}$$

t_{wb} = Wet-bulb temperature corresponding to enthalpy of air leaving evaporator coil (h_{wb}).

$$h_{wb} = h_{ewb} - \frac{\text{sensible capacity (Btuh)}}{4.5 \times \text{cfm}}$$

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

LEGEND

MBh = Total Capacity (Gross)

KW = Unit Operating Watts

t_{db} = Leaving Dry Bulb

edb = Entering Dry Bulb

h_{wb} = Enthalpy of leaving wet bulb

S/T = Sensible to Total Ratio

IDB = Indoor Dry Bulb

t_{wb} = Leaving Wet Bulb

ewb = Entering Wet Bulb

EXPANDED PERFORMANCE DATA - PAPA36HA1 - (GROSS Capacity - See note on bottom of page 2)

Airflow IDB* CFM				Outdoor Ambient Temperature - Degrees F. Dry Bulb																											
				65				75				85				95				105				115							
				Entering Indoor Temperature - Degrees F. Wet Bulb																											
				59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1344	MBh	35.1	36.4	39.8	-	34.3	35.5	38.9	-	33.4	34.7	38.0	-	32.6	33.8	37.1	-	31.0	32.1	35.2	-	28.7	29.8	32.6	-					
		S/T	0.78	0.65	0.45	-	0.81	0.68	0.47	-	0.83	0.70	0.48	-	0.86	0.72	0.50	-	0.89	0.74	0.52	-	0.90	0.75	0.52	-					
		KW	2.99	3.05	3.14	-	3.21	3.27	3.37	-	3.40	3.47	3.57	-	3.56	3.64	3.75	-	3.70	3.78	3.90	-	3.83	3.91	4.03	-					
	1200	MBh	34.1	35.3	38.7	-	33.3	34.5	37.8	-	32.5	33.7	36.9	-	31.7	32.8	36.0	-	30.1	31.2	34.2	-	27.9	28.9	31.7	-					
		S/T	0.75	0.62	0.43	-	0.77	0.65	0.45	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.86	0.72	0.50	-					
		KW	2.97	3.03	3.12	-	3.18	3.25	3.34	-	3.37	3.44	3.54	-	3.53	3.61	3.72	-	3.68	3.75	3.87	-	3.80	3.88	4.00	-					
75	1056	MBh	32.4	33.5	36.7	-	31.6	32.8	35.9	-	30.9	32.0	35.0	-	30.1	31.2	34.2	-	28.6	29.6	32.5	-	26.5	27.5	30.1	-					
		S/T	0.72	0.60	0.41	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.45	-	0.81	0.68	0.47	-	0.82	0.69	0.48	-					
		KW	2.93	2.98	3.07	-	3.13	3.20	3.29	-	3.32	3.39	3.49	-	3.48	3.55	3.66	-	3.62	3.69	3.81	-	3.74	3.82	3.93	-					
	1344	MBh	35.7	36.7	39.8	42.7	34.8	35.9	38.8	41.7	34.0	35.0	37.9	40.7	33.2	34.2	37.0	39.7	31.5	32.5	35.1	37.7	29.2	30.1	32.5	34.9					
		S/T	0.89	0.80	0.60	0.39	0.92	0.83	0.62	0.40	0.95	0.85	0.64	0.41	0.98	0.87	0.66	0.43	1.00	0.91	0.69	0.44	1.00	0.91	0.69	0.45					
		KW	3.01	3.07	3.16	3.26	3.23	3.30	3.40	3.50	3.42	3.49	3.60	3.71	3.59	3.67	3.78	3.90	3.73	3.81	3.93	4.06	3.86	3.94	4.06	4.20					
80	1200	MBh	34.6	35.7	38.6	41.4	33.8	34.8	37.7	40.5	33.0	34.0	36.8	39.5	32.2	33.2	35.9	38.5	30.6	31.5	34.1	36.6	28.4	29.2	31.6	33.9					
		S/T	0.85	0.76	0.57	0.37	0.88	0.79	0.60	0.38	0.90	0.81	0.61	0.39	0.93	0.83	0.63	0.41	0.97	0.86	0.65	0.42	0.98	0.87	0.66	0.42					
		KW	2.99	3.05	3.14	3.24	3.21	3.27	3.37	3.47	3.40	3.47	3.57	3.68	3.56	3.64	3.75	3.87	3.70	3.78	3.90	4.03	3.83	3.91	4.03	4.16					
	1056	MBh	32.9	33.9	36.7	39.4	32.1	33.1	35.8	38.4	31.4	32.3	35.0	37.5	30.6	31.5	34.1	36.6	29.1	29.9	32.4	34.8	26.9	27.7	30.0	32.2					
		S/T	0.81	0.73	0.55	0.35	0.84	0.75	0.57	0.37	0.86	0.77	0.59	0.38	0.89	0.80	0.60	0.39	0.93	0.83	0.63	0.40	0.93	0.84	0.63	0.41					
		KW	2.95	3.01	3.09	3.19	3.16	3.22	3.32	3.42	3.34	3.41	3.52	3.63	3.51	3.58	3.69	3.81	3.65	3.72	3.84	3.96	3.77	3.85	3.97	4.09					
85	1344	MBh	36.3	37.1	39.6	42.4	35.5	36.2	38.7	41.4	34.6	35.4	37.8	40.4	33.8	34.5	36.9	39.4	32.1	32.8	35.0	37.4	29.7	30.4	32.4	34.7					
		S/T	1.00	0.92	0.75	0.56	1.00	0.95	0.77	0.58	1.00	1.00	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.85	0.63	1.00	1.00	0.86	0.64					
		KW	3.04	3.10	3.19	3.29	3.26	3.32	3.42	3.53	3.45	3.52	3.63	3.74	3.62	3.69	3.81	3.93	3.76	3.84	3.96	4.09	3.89	3.97	4.10	4.23					
	1200	MBh	35.3	36.0	38.5	41.1	34.4	35.2	37.6	40.2	33.6	34.3	36.7	39.2	32.8	33.5	35.8	38.3	31.2	31.8	34.0	36.4	28.9	29.5	31.5	33.7					
		S/T	0.93	0.87	0.71	0.53	0.97	0.91	0.74	0.55	0.99	0.93	0.76	0.56	1.00	0.96	0.78	0.58	1.00	0.99	0.81	0.61	1.00	1.00	0.82	0.61					
		KW	3.01	3.07	3.17	3.26	3.23	3.30	3.40	3.50	3.42	3.49	3.60	3.71	3.59	3.67	3.78	3.90	3.73	3.81	3.93	4.06	3.86	3.94	4.07	4.20					
85	1056	MBh	33.5	34.2	36.6	39.1	32.7	33.4	35.7	38.2	31.9	32.6	34.9	37.3	31.2	31.8	34.0	36.4	29.6	30.2	32.3	34.5	27.4	28.0	29.9	32.0					
		S/T	0.89	0.84	0.68	0.51	0.92	0.87	0.71	0.53	0.95	0.89	0.72	0.54	0.98	0.92	0.75	0.56	1.02	0.95	0.78	0.58	1.02	0.96	0.78	0.58					
		KW	2.97	3.03	3.12	3.21	3.18	3.25	3.34	3.45	3.37	3.44	3.54	3.65	3.53	3.61	3.72	3.84	3.68	3.75	3.87	3.99	3.80	3.88	4.00	4.13					
	1344	MBh	36.9	37.7	39.4	42.1	36.1	36.8	38.5	41.1	35.2	35.9	37.6	40.1	34.4	35.0	36.7	39.1	32.6	33.3	34.9	37.2	30.2	30.8	32.3	34.4					
		S/T	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.95	0.77	1.00	1.00	0.98	0.79	1.00	1.00	1.00	0.82	1.00	1.00	1.00	0.83					
		KW	3.06	3.12	3.21	3.31	3.28	3.35	3.45	3.56	3.48	3.55	3.66	3.77	3.65	3.72	3.84	3.96	3.79	3.87	4.00	4.13	3.92	4.00	4.13	4.27					
85	1200	MBh	35.9	36.6	38.3	40.9	35.0	35.7	37.4	39.9	34.2	34.9	36.5	39.0	33.4	34.0	35.6	38.0	31.7	32.3	33.8	36.1	29.4	29.9	31.3	33.4					
		S/T	0.98	0.94	0.85	0.69	1.00	0.98	0.88	0.72	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.76	1.00	1.00	0.97	0.79	1.00	1.00	0.98	0.79					
		KW	3.04	3.10	3.19	3.29	3.26	3.32	3.42	3.53	3.45	3.52	3.63	3.74	3.62	3.69	3.81	3.93	3.76	3.84	3.96	4.09	3.89	3.97	4.10	4.23					
	1056	MBh	34.1	34.7	36.4	38.8	33.3	33.9	35.5	37.9	32.5	33.1	34.7	37.0	31.7	32.3	33.8	36.1	30.1	30.7	32.1	34.3	27.9	28.4	29.8	31.8					
		S/T	0.94	0.90	0.81	0.66	0.97	0.94	0.84	0.68	0.99	0.96	0.87	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.93	0.75	1.00	1.00	0.94	0.76					
		KW	2.99	3.05	3.14	3.24	3.21	3.27	3.37	3.47	3.40	3.47	3.57	3.68	3.56	3.64	3.75	3.87	3.70	3.78	3.90	4.03	3.83	3.91	4.03	4.16					

EXPANDED PERFORMANCE DATA - PAPA48HA1 - (GROSS Capacity - See note on bottom of page 2)

Airflow IDB* CFM			Outdoor Ambient Temperature - Degrees F. Dry Bulb																											
			65				75				85				95				105				115							
			Entering Indoor Temperature - Degrees F. Wet Bulb																											
			59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1848	MBh	46.4	48.1	52.7	-	45.4	47.0	51.5	-	44.3	45.9	50.3	-	43.2	44.8	49.1	-	41.0	42.5	46.6	-	38.0	39.4	43.2	-				
		S/T	0.80	0.67	0.46	-	0.83	0.70	0.48	-	0.85	0.71	0.49	-	0.88	0.74	0.51	-	0.91	0.76	0.53	-	0.92	0.77	0.53	-				
		KW	2.26	2.32	2.40	-	2.47	2.53	2.62	-	2.65	2.72	2.82	-	2.81	2.88	2.99	-	2.95	3.02	3.14	-	3.07	3.14	3.26	-				
	1650	MBh	45.1	46.7	51.2	-	44.0	45.7	50.0	-	43.0	44.6	48.8	-	41.9	43.5	47.6	-	39.9	41.3	45.3	-	36.9	38.3	41.9	-				
		S/T	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.84	0.70	0.49	-	0.87	0.73	0.50	-	0.88	0.73	0.51	-				
		KW	2.24	2.29	2.38	-	2.44	2.50	2.60	-	2.62	2.69	2.79	-	2.78	2.85	2.96	-	2.92	2.99	3.11	-	3.04	3.11	3.23	-				
1232	MBh	42.8	44.4	48.6	-	41.8	43.4	47.5	-	40.8	42.3	46.4	-	39.9	41.3	45.3	-	37.9	39.2	43.0	-	35.1	36.3	39.8	-					
	S/T	0.73	0.61	0.42	-	0.76	0.64	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.84	0.70	0.48	-	0.84	0.70	0.49	-					
	KW	2.19	2.25	2.33	-	2.40	2.46	2.55	-	2.57	2.64	2.74	-	2.73	2.80	2.91	-	2.86	2.94	3.05	-	2.98	3.05	3.17	-					
75	1848	MBh	47.2	48.6	52.6	56.5	46.1	47.5	51.4	55.2	45.0	46.4	50.2	53.9	43.9	45.2	49.0	52.6	41.7	43.0	46.5	49.9	38.7	39.8	43.1	46.2				
		S/T	0.91	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.97	0.87	0.66	0.42	1.00	0.90	0.68	0.44	1.00	0.93	0.70	0.45	1.00	0.94	0.71	0.46				
		KW	2.28	2.34	2.43	2.52	2.49	2.55	2.65	2.75	2.67	2.74	2.85	2.92	2.84	2.91	3.02	3.14	2.98	3.05	3.17	3.29	3.10	3.17	3.30	3.42				
	1650	MBh	45.9	47.2	51.1	54.9	44.8	46.1	49.9	53.6	43.7	45.0	48.7	52.3	42.7	43.9	47.5	51.0	40.5	41.7	45.2	48.5	37.5	38.7	41.8	44.9				
		S/T	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.93	0.83	0.63	0.40	0.96	0.85	0.65	0.42	0.99	0.89	0.67	0.43	1.00	0.89	0.68	0.44				
		KW	2.26	2.32	2.40	2.49	2.47	2.53	2.62	2.72	2.65	2.72	2.82	2.93	2.81	2.88	2.99	3.11	2.95	3.02	3.14	3.26	3.07	3.14	3.26	3.39				
1232	MBh	43.6	44.9	48.6	52.1	42.6	43.8	47.4	50.9	41.5	42.8	46.3	49.7	40.5	41.7	45.2	48.5	38.5	39.6	42.9	46.1	35.7	36.7	39.7	42.7					
	S/T	0.83	0.75	0.56	0.36	0.86	0.77	0.59	0.38	0.89	0.79	0.60	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.96	0.86	0.65	0.42					
	KW	2.22	2.27	2.36	2.45	2.42	2.48	2.57	2.67	2.60	2.66	2.76	2.87	2.76	2.83	2.93	3.05	2.89	2.96	3.08	3.20	3.01	3.08	3.20	3.32					
80	1848	MBh	48.1	49.1	52.5	56.1	47.0	48.0	51.3	54.8	45.8	46.8	50.0	53.5	44.7	45.7	48.8	52.2	42.5	43.4	46.4	49.6	39.4	40.2	43.0	45.9				
		S/T	1.00	0.94	0.76	0.57	1.00	1.00	0.79	0.59	1.00	1.00	0.81	0.61	1.00	1.00	0.84	0.63	1.00	1.00	0.87	0.65	1.00	1.00	0.88	0.66				
		KW	2.30	2.36	2.45	2.54	2.51	2.58	2.67	2.78	2.70	2.77	2.87	2.98	2.86	2.94	3.05	3.17	3.00	3.08	3.20	3.32	3.13	3.21	3.33	3.46				
	1650	MBh	46.7	47.7	51.0	54.5	45.6	46.6	49.8	53.2	44.5	45.5	48.6	51.9	43.4	44.4	47.4	50.7	41.2	42.1	45.0	48.1	38.2	39.0	41.7	44.6				
		S/T	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.56	1.00	0.95	0.78	0.58	1.00	0.98	0.80	0.60	1.00	1.00	0.83	0.62	1.00	1.00	0.84	0.63				
		KW	2.28	2.34	2.43	2.52	2.49	2.55	2.65	2.75	2.67	2.74	2.85	2.96	2.84	2.91	3.02	3.14	2.98	3.05	3.17	3.29	3.10	3.17	3.30	3.42				
1232	MBh	44.3	45.3	48.4	51.7	43.3	44.3	47.3	50.5	42.3	43.2	46.2	49.3	41.2	42.1	45.0	48.1	39.2	40.0	42.8	45.7	36.3	37.1	39.6	42.4					
	S/T	0.92	0.86	0.70	0.52	0.95	0.89	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.04	0.98	0.80	0.59	1.05	0.99	0.80	0.60					
	KW	2.24	2.29	2.38	2.47	2.44	2.50	2.60	2.70	2.62	2.69	2.79	2.90	2.78	2.85	2.96	3.08	2.92	2.99	3.11	3.23	3.04	3.11	3.23	3.36					
85	1848	MBh	48.9	49.9	52.2	55.7	47.8	48.7	51.0	54.4	46.6	47.5	49.8	53.1	45.5	46.4	48.6	51.8	43.2	44.1	46.1	49.2	40.0	40.8	42.7	45.6				
		S/T	1.00	1.00	0.91	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.97	0.79	1.00	1.00	0.91	0.81	1.00	1.00	0.91	0.84	1.00	1.00	1.00	0.85				
		KW	2.32	2.38	2.47	2.57	2.54	2.60	2.70	2.80	2.73	2.80	2.90	3.01	2.89	2.97	3.08	3.20	3.03	3.11	3.23	3.35	3.16	3.24	3.36	3.49				
	1650	MBh	47.5	48.4	50.7	54.1	46.4	47.3	49.5	52.8	45.3	46.2	48.3	51.6	44.2	45.0	47.2	50.3	42.0	42.8	44.8	47.8	38.9	39.6	41.5	44.3				
		S/T	1.00	0.97	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.99	0.81	1.00	1.00	1.00	0.81				
		KW	2.30	2.36	2.45	2.54	2.51	2.58	2.67	2.78	2.70	2.77	2.87	2.98	2.86	2.94	3.05	3.17	3.00	3.08	3.20	3.32	3.13	3.21	3.33	3.46				
1232	MBh	45.1	46.0	48.2	51.4	44.1	44.9	47.0	50.2	43.0	43.8	45.9	49.0	42.0	42.8	44.8	47.8	39.9	40.6	42.6	45.4	36.9	37.6	39.4	42.1					
	S/T	0.96	0.93	0.84	0.68	0.99	0.96	0.87	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.96	0.78					
	KW	2.26	2.32	2.40	2.49	2.47	2.53	2.62	2.72	2.65	2.72	2.82	2.93	2.81	2.88	2.99	3.11	2.95	3.02	3.14	3.26	3.07	3.14	3.26	3.39					

EXPANDED PERFORMANCE DATA - PAPA60HA1 - (GROSS Capacity - See note on bottom of page 2)

Airflow IDB* CFM			Outdoor Ambient Temperature - Degrees F. Dry Bulb																											
			65				75				85				95				105				115							
			Entering Indoor Temperature - Degrees F. Wet Bulb																											
			59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	2128	MBh	57.7	59.8	65.5	-	56.4	58.4	64.0	-	55.0	57.0	62.5	-	53.7	55.6	61.0	-	51.0	52.9	57.9	-	47.2	49.0	53.7	-				
		S/T	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.82	0.69	0.48	-	0.85	0.71	0.49	-	0.88	0.74	0.51	-	0.89	0.74	0.51	-				
		KW	4.42	4.50	4.63	-	4.73	4.82	4.96	-	5.00	5.10	5.25	-	5.24	5.34	5.51	-	5.44	5.55	5.72	-	5.62	5.73	5.91	-				
	1900	MBh	56.0	58.1	63.6	-	54.7	56.7	62.2	-	53.4	55.4	60.7	-	52.1	54.0	59.2	-	49.5	51.3	56.2	-	45.9	47.5	52.1	-				
		S/T	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.78	0.65	0.45	-	0.81	0.68	0.47	-	0.84	0.70	0.49	-	0.85	0.71	0.49	-				
		KW	4.39	4.47	4.60	-	4.69	4.78	4.92	-	4.96	5.06	5.21	-	5.20	5.30	5.46	-	5.40	5.51	5.68	-	5.57	5.69	5.87	-				
1672	MBh	53.2	55.2	60.5	-	52.0	53.9	59.0	-	50.8	52.6	57.6	-	49.5	51.3	56.2	-	47.0	48.8	53.4	-	43.6	45.2	49.5	-					
	S/T	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.78	0.65	0.45	-	0.80	0.67	0.47	-	0.81	0.68	0.47	-					
	KW	4.32	4.41	4.53	-	4.62	4.71	4.85	-	4.89	4.98	5.13	-	5.12	5.22	5.38	-	5.32	5.43	5.59	-	5.49	5.60	5.77	-					
75	2128	MBh	58.7	60.4	65.4	70.2	57.3	59.0	63.9	68.6	56.0	57.6	62.4	66.9	54.6	56.2	60.8	65.3	51.9	53.4	57.8	62.0	48.0	49.5	53.5	57.5				
		S/T	0.88	0.79	0.60	0.38	0.91	0.81	0.62	0.40	0.93	0.84	0.63	0.41	0.96	0.86	0.65	0.42	1.00	0.90	0.68	0.44	1.00	0.90	0.68	0.44				
		KW	4.45	4.54	4.67	4.80	4.76	4.86	5.00	5.15	5.04	5.14	5.29	5.45	5.28	5.39	5.55	5.72	5.48	5.60	5.77	5.95	5.66	5.78	5.96	6.15				
	1900	MBh	57.0	58.7	63.5	68.2	55.7	57.3	62.0	66.6	54.3	55.9	60.6	65.0	53.0	54.6	59.1	63.4	50.4	51.9	56.1	60.2	46.6	48.0	52.0	55.8				
		S/T	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.89	0.80	0.60	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.65	0.42	0.96	0.86	0.65	0.42				
		KW	4.42	4.50	4.63	4.77	4.73	4.82	4.96	5.11	5.00	5.10	5.25	5.41	5.24	5.34	5.51	5.68	5.44	5.55	5.72	5.90	5.62	5.73	5.91	6.10				
1672	MBh	54.1	55.7	60.3	64.8	52.9	54.4	58.9	63.2	51.6	53.1	57.5	61.7	50.4	51.9	56.1	60.2	47.8	49.3	53.3	57.2	44.3	45.6	49.4	53.0					
	S/T	0.80	0.72	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.38	0.91	0.82	0.62	0.40	0.92	0.82	0.62	0.40					
	KW	4.35	4.44	4.56	4.70	4.66	4.75	4.89	5.03	4.92	5.02	5.17	5.33	5.16	5.26	5.42	5.59	5.36	5.47	5.63	5.81	5.53	5.64	5.82	6.00					
80	2128	MBh	59.7	61.0	65.2	69.7	58.3	59.6	63.7	68.1	57.0	58.2	62.2	66.5	55.6	56.8	60.7	64.9	52.8	53.9	57.6	61.6	48.9	50.0	53.4	57.1				
		S/T	0.96	0.90	0.74	0.55	1.00	0.94	0.76	0.57	1.00	0.96	0.78	0.58	1.00	1.00	0.81	0.60	1.00	1.00	0.84	0.63	1.00	1.00	0.84	0.63				
		KW	4.48	4.57	4.70	4.84	4.80	4.89	5.04	5.19	5.07	5.18	5.33	5.50	5.32	5.43	5.59	5.77	5.53	5.64	5.82	6.00	5.71	5.83	6.01	6.20				
	1900	MBh	58.0	59.3	63.3	67.7	56.7	57.9	61.8	66.1	55.3	56.5	60.4	64.5	54.0	55.1	58.9	63.0	51.3	52.4	56.0	59.8	47.5	48.5	51.8	55.4				
		S/T	0.92	0.86	0.70	0.52	0.95	0.89	0.73	0.54	0.98	0.92	0.75	0.56	1.00	0.95	0.77	0.58	1.00	0.98	0.80	0.60	1.00	0.99	0.81	0.60				
		KW	4.45	4.54	4.67	4.80	4.76	4.86	5.00	5.15	5.04	5.14	5.29	5.45	5.28	5.39	5.55	5.72	5.48	5.60	5.77	5.95	5.66	5.78	5.96	6.15				
1672	MBh	55.1	56.3	60.2	64.3	53.8	55.0	58.8	62.8	52.5	53.7	57.4	61.3	51.3	52.4	56.0	59.8	48.7	49.8	53.2	56.8	45.1	46.1	49.2	52.6					
	S/T	0.88	0.83	0.67	0.50	0.91	0.86	0.70	0.52	0.94	0.88	0.71	0.53	0.97	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.01	0.95	0.77	0.58					
	KW	4.39	4.47	4.60	4.73	4.69	4.78	4.92	5.07	4.96	5.06	5.21	5.37	5.20	5.30	5.46	5.63	5.40	5.51	5.68	5.86	5.57	5.69	5.87	6.05					
85	2128	MBh	60.8	62.0	64.9	69.2	59.4	60.5	63.4	67.6	58.0	59.1	61.9	66.0	56.5	57.6	60.4	64.4	53.7	54.8	57.3	61.2	49.8	50.7	53.1	56.7				
		S/T	1.00	0.98	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.78	1.00	1.00	1.00	0.81	1.00	1.00	1.00	0.82				
		KW	4.52	4.60	4.74	4.88	4.83	4.93	5.07	5.23	5.11	5.22	5.37	5.54	5.36	5.47	5.64	5.81	5.57	5.69	5.86	6.05	5.75	5.87	6.05	6.25				
	1900	MBh	59.0	60.2	63.0	67.2	57.6	58.8	61.5	65.6	56.3	57.4	60.1	64.1	54.9	56.0	58.6	62.5	52.2	53.2	55.7	59.4	48.3	49.2	51.6	55.0				
		S/T	0.96	0.93	0.84	0.68	1.00	0.96	0.87	0.71	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.96	0.78				
		KW	4.48	4.57	4.70	4.84	4.80	4.89	5.04	5.19	5.07	5.18	5.33	5.50	5.32	5.43	5.59	5.77	5.53	5.64	5.82	6.00	5.71	5.83	6.01	6.20				
1672	MBh	56.1	57.1	59.9	63.9	54.8	55.8	58.5	62.4	53.5	54.5	57.1	60.9	52.2	53.2	55.7	59.4	49.5	50.5	52.9	56.4	45.9	46.8	49.0	52.3					
	S/T	0.92	0.89	0.80	0.65	0.96	0.92	0.83	0.68	0.98	0.95	0.85	0.69	1.00	0.98	0.88	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.92	0.75					
	KW	4.42	4.50	4.63	4.77	4.73	4.82	4.96	5.11	5.00	5.10	5.25	5.41	5.24	5.34	5.51	5.68	5.44	5.55	5.72	5.90	5.62	5.73	5.91	6.10					

* Entering Indoor Temperature - Degrees F. Dry Bulb



Standard Rating

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

ELECTRICAL DATA TABLE: STRIP HEATERS

HEATER MODEL	Used With	Supply Voltage	KW Rating	Nominal Heating BTUH	Supply Circuit No.	Heater Amps	Minimum Circuit Ampacity	Maximum Overcurrent Protective Device (Amps)
AMMH10AHB with fuses	3, 4, 5 Ton	240-3-60	9.9	33,788	L4 - L5-L6	24.1	30.2	45
		208-3-60	7.4	25,341	L4 - L5-L6	20.9	26.2	30
AMMH15AHB with fuses	3, 4, 5 Ton	240-3-60	14.4	49,147	L4, L5, L6	34.7	43.4	45
		208-3-60	10.8	36,860	L4, L5, L6	30.1	37.7	40

PERFORMANCE DATA: ELECTRIC HEAT ACCESSORY

Heater Model	Use With	Supply Voltage	*Temperature Rise °F @ CFM								
			600	800	1000	1200	1400	1600	1800	2000	2200
AMMH10AHB with fuses	3, 4, 5 Ton	240-3-60	52.1	39.1	31.3	26.1	22.3	19.6	17.4	15.6	14.2
		208-3-60	38.9	29.2	23.3	19.5	16.7	14.6	12.9	11.7	10.6
AMMH15AHB with fuses	3, 4, 5 Ton	240-3-60	-	59.6	45.5	37.9	32.5	28.4	25.2	22.7	20.7
		208-3-60	56.8	42.6	34.1	28.4	24.3	21.3	18.9	17.0	15.5

* Do not exceed 60° F temperature rise on heater

ACCESSORIES: DUCT KITS

Model No.	Description
NACA001DK	BASIC FLEXIBLE DUCT INSTALLATION KIT. For SINGLE Return & SINGLE Supply application Includes:1- 12" x 7ft & 1- 14" x 5ft flex duct, screw clamps &

IDENTIFICATION GUIDE										
MODEL NUMBER	P	A	P	A	36	H	A	SALES CODE		
PRODUCT FAMILY	P - PACKAGE			A	36	H	ELECTRICAL CHARACTERISTICS			
PRODUCT TYPE							CODE	PHASE	CYCLE	VOLTS
A - A/C	Y - HEAT PUMP			A	36	H	G	3	60	208/230-240
FEATURE CODE							NOMINAL MBTUH			
							36 = 36,000 BTUH			
							SERIES			
							A - Standard			
							C - 12 Ultra High SEER			

UNIT DIMENSIONS

NOTE: DUCT COLLARS ATTACHED TO SUPPLY AND RETURN MUST BE REVERSED AT INSTALLATION.

ALL DIMENSIONS IN INCHES

The technical drawing consists of two views: a front view on the left and a side view on the right.

Front View (Left):

- Overall height: 26.5
- Overall width: 51
- Coil Access Panel: Located on the right side of the front view.
- Pressure Ports: Located at the bottom left of the front view.
- Condensate Drain Connection: Located at the bottom center of the front view.
- Width of the coil section: 26 3/4

Side View (Right):

- Overall width: 41
- Round Flange for Return Duct: Located on the left side of the side view, with a diameter of 14" DIA.
- Round Shaped Flange for Supply Duct: Located on the right side of the side view, with a diameter of 12" DIA.
- 3/8 DIA HOLE: Located on the right side of the side view, with a diameter of 3/8 DIA.
- 1 1/4 DIA. (two locations): Located on the right side of the side view, with a diameter of 1 1/4 DIA.
- Dimensions: 10, 17, 15, 4 1/2, 7 3/4, 1 1/2, 12 1/2, 9, 1 3/8.

* ELECTRICAL ACCESS FOR LINE VOLTAGE POWER SUPPLY-ONE FOR UNIT, ONE FOR HEATER
** FOR LOW VOLTAGE WIRING

