TEMPSTAR®
Heating and Cooling Products

NAC "ZA" SERIES
380/420V-3-50HZ
CONDENSING UNIT
AIR CONDITIONING

Features

Aluminum Fin/Copper Tube Condenser Coil
Durable Proven Technology

Baked Acrylic Coating on Fins
Enhanced Corrosion Protection

Triple Step Paint over Galvanized Steel
One of the toughest finishes in the industry

High Efficiency Compressors
Durable Proven Technology

External Service Valves with Gauge Ports
Simplifies Servicing

Low Profile Rectangular Design
Makes site placement easy

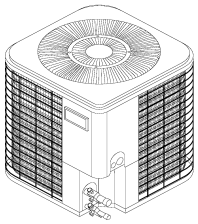
Approved for Operation to 52 Deg C Ambient

ICP International Comfort Products
International Division
650 Heil Quaker Avenue
Lewisburg TN 37091

421 21 3011 04 Apr-05

Unit Specifications				
Base Unit without High and Low Pressure Switches		NAC036AZA	NAC048AZA	NAC060AZA
Premium Unit with High and Low Pressure Switches		NAC036PZA	NAC048PZA	NAC060PZA
Electrical Data	Volts-Phase-Hz.	380/420V-3-50		
	Voltage Utilization Range	342 - 462		
	Total Unit Amps	6.5	8.2	9.7
	Minimum Circuit Ampacity	7.9	10.0	12.0
Compressor	Quantity/Type	1-Recip	1- Scroll	
	Rated Load Amps	5.7	7.4	8.9
	Locked Rotor Amps	42.0	59.6	72.9
	# Refrigeration Circuits	1	1	1
Fan	HP-Quantity	1/3 -1	1/3 -1	1/3 -1
	Full Load Amps	.74	.74	.74
	Locked Rotor Amps	2.15	2.15	2.15
	Diameter mm (each)	457	559	559
	RPM	1100	1100	1100
	CMH (total)	2958	4437	4805
Coil	Face Area (Sqm)	1.08	1.43	1.65
	Fins per mm -rows	.866-1	.866-1	.866-1
	Tube Diameter (mm)	9.52	9.52	9.52
Refrigerant	Type	R-22		
	Shipping Charge (kg)	2.47	3.06	3.68
	Operating Charge (kg)	2.47	3.06	3.68
	Connection size liquid/suction (mm)	7.94/19.05	7.94/22.22	7.94/22.22
Unit	Sound Level (dBa predicted at 1 m)	76	76	78
	Shipping Weight (kg)	65.7	92	96
	Container Loading 20ft/40ft/40ft HC	81/162/162	60/126/126	40/84/126

Dimensions



	NAC036	NAC048	NAC060
Height(mm)	724	826	876
Width(mm)	629	864	864
Depth(mm)	673	832	832
Weight (kg)	65.7	92	96

AVAILABLE MATCHES		NAC036	NAC048	NAC060
Standard Ducted Fan Coil		**EBW3600A EBW4200A**	**EBW4800A EBW6000A**	**EBW6000A**
Slim Line Ducted Fan Coil		**TDKP36 TDKP48**	**TDKP48 TDKP60**	**TDKP60**
Universal Mount Duct Free		**MK036AWA**	**MK048AWA**	**MK060AWA**
Ceiling Cassette		**SC36MNVC**	**SC48MNVC**	
High Wall		**HWSR36AWA**		

GROSS COOLING CAPACITY

MODEL NAC036*ZA 380/420V-3-50

SATURATED SUCTION TEMP DEGF/DEGC		AMBIENT AIR TEMP DEGF/DEGC					
		75/24	85/29	95/35	105/41	115/46	125/52
35/1.5	Capacity btuh	33,486	31,409	29,303	26,834	24,437	21,423
	Capacity kW	9.82	9.21	8.59	7.87	7.16	6.28
	Input kW	2.94	3.02	3.07	3.16	3.22	3.30
40/4.4	Capacity btuh	37,763	35,294	32,680	29,993	27,342	23,965
	Capacity kW	11.07	10.35	9.58	8.79	8.02	7.03
	Input kW	2.99	3.10	3.22	3.34	3.45	3.56
45/7.2	Capacity btuh	41,757	38,998	36,311	33,333	30,465	27,233
	Capacity kW	12.24	11.43	10.65	9.77	8.93	7.98
	Input kW	3.03	3.23	3.39	3.53	3.65	3.79
50/10	Capacity btuh	45,788	42,919	40,123	36,910	33,696	30,138
	Capacity kW	13.43	12.58	11.76	10.82	9.88	8.84
	Input kW	3.21	3.37	3.53	3.72	3.86	4.02

MODEL NAC048*ZA 380/420V-3-50

SATURATED SUCTION TEMP DEGF/DEGC		AMBIENT AIR TEMP DEGF/DEGC					
		75/24	85/29	95/35	105/41	115/46	125/52
35/1.5	Capacity btuh	46,123	43,262	40,362	36,961	33,660	29,508
	Capacity kW	13.52	12.68	11.83	10.84	9.87	8.65
	Input kW	4.02	4.12	4.19	4.32	4.40	4.52
40/4.4	Capacity btuh	52,015	48,614	45,013	41,312	37,661	33,010
	Capacity kW	15.25	14.25	13.20	12.11	11.04	9.68
	Input kW	4.08	4.24	4.40	4.57	4.71	4.87
45/7.2	Capacity btuh	57,517	53,715	50,014	45,913	41,962	37,511
	Capacity kW	16.86	15.75	14.66	13.46	12.30	11.00
	Input kW	4.15	4.42	4.63	4.83	4.99	5.18
50/10	Capacity btuh	63,068	59,117	55,266	50,840	46,413	41,512
	Capacity kW	18.49	17.33	16.20	14.91	13.61	12.17
	Input kW	4.39	4.60	4.83	5.09	5.28	5.49

MODEL NAC060*ZA 380/420V-3-50

SATURATED SUCTION TEMP DEGF/DEGC		AMBIENT AIR TEMP DEGF/DEGC					
		75/24	85/29	95/35	105/41	115/46	125/52
35/1.5	Capacity btuh	54,887	51,483	48,031	43,984	40,056	35,116
	Capacity kW	16.09	15.09	14.08	12.90	11.74	10.30
	Input kW	5.18	5.32	5.41	5.57	5.68	5.83
40/4.4	Capacity btuh	61,899	57,851	53,566	49,162	44,817	39,282
	Capacity kW	18.15	16.96	15.71	14.41	13.14	11.52
	Input kW	5.26	5.47	5.68	5.89	6.08	6.28
45/7.2	Capacity btuh	68,446	63,922	59,518	54,638	49,936	44,639
	Capacity kW	20.07	18.74	17.45	16.02	14.64	13.09
	Input kW	5.35	5.69	5.98	6.23	6.44	6.67
50/10	Capacity btuh	75,052	70,350	65,767	60,500	55,233	49,400
	Capacity kW	22.01	20.63	19.28	17.74	16.19	14.48
	Input kW	5.66	5.93	6.23	6.57	6.81	7.08

PERFORMANCE DATA WITH EBW FAN COIL @ 0.2 IN.WC EXTERNAL STATIC PRESSURE									
MODEL NO.	AMBIENT	ON COIL	AIRFLOW	CAPACITY			Total System	Condenser Only	Fan coil Only
INDOOR/OUTDOOR	F°	F°	CFM	T MBH	s/t	S MBH	kW	kW	kW
EBW3600A/NAC036*ZA	95	80 / 67	1210	36.1	0.84	30.3	3.96	3.51	0.45
			1058	35.0	0.80	28.0	3.93	3.52	0.41
			925	33.0	0.75	24.8	3.75	3.41	0.34
	115	80 / 67	1210	31.8	0.88	28.0	4.16	3.71	0.45
			1058	29.4	0.84	24.6	4.28	3.87	0.41
			925	29.0	0.78	22.6	3.95	3.61	0.34
	115	75 / 63	1210	29.4	0.94	27.6	4.05	3.60	0.45
			1058	28.5	0.89	25.4	4.02	3.61	0.41
			925	26.9	0.84	22.6	3.84	3.50	0.34
EBW4200A/NAC036*ZA	95	80 / 67	1394	37.8	0.83	31.4	3.98	3.44	0.54
			1232	36.7	0.79	29.0	3.96	3.48	0.48
			1046	34.9	0.76	26.5	3.92	3.50	0.42
	115	80 / 67	1394	33.3	0.87	29.0	4.19	3.65	0.54
			1232	32.3	0.83	26.8	4.16	3.68	0.48
			1046	30.7	0.79	24.3	4.12	3.70	0.42
	115	75 / 63	1394	30.8	0.93	28.6	4.07	3.53	0.54
			1232	29.9	0.88	26.3	4.05	3.57	0.48
			1046	28.4	0.85	24.1	4.01	3.59	0.42
EBW4800A/NAC036*ZA	95	80 / 67	1622	40.3	0.85	34.3	3.85	3.25	0.60
			1535	39.1	0.81	31.7	3.83	3.27	0.56
			1422	38.0	0.77	29.3	3.81	3.32	0.49
	115	80 / 67	1622	35.5	0.89	31.6	4.05	3.45	0.60
			1535	34.4	0.85	29.2	4.03	3.47	0.56
			1422	33.4	0.81	27.1	4.01	3.52	0.49
	115	75 / 63	1622	32.9	0.95	31.3	3.94	3.34	0.60
			1535	31.9	0.91	29.0	3.92	3.36	0.56
			1422	31.0	0.86	26.7	3.90	3.41	0.49

PERFORMANCE DATA WITH EBW FAN COIL @ 0.2 IN.WC EXTERNAL STATIC PRESSURE									
MODEL NO.	AMBIENT	ON COIL	AIRFLOW	CAPACITY			Total System	Condenser Only	Fan coil Only
INDOOR/OUTDOOR	F°	F°	CFM	T MBH	s/t	S MBH	kW	kW	kW
EBW4800A/NAC048*ZA	95	80 / 67	1622	45.1	0.71	32.0	5.57	4.97	0.60
			1535	44.5	0.72	32.1	5.52	4.96	0.56
			1422	43.3	0.69	29.9	5.42	4.93	0.49
	115	80 / 67	1622	39.6	0.74	29.3	6.02	5.42	0.60
			1535	39.0	0.75	29.2	5.67	5.11	0.56
			1422	38.1	0.72	27.5	5.57	5.08	0.49
	115	75 / 63	1622	36.7	0.79	29.0	5.77	5.17	0.60
			1535	36.3	0.81	29.4	5.43	4.87	0.56
			1422	35.3	0.77	27.2	5.34	4.85	0.49
EBW6000A/NAC048*ZA	95	80 / 67	1788	48.5	0.74	35.9	5.80	5.13	0.67
			1625	47.9	0.75	35.9	5.75	5.11	0.64
			1372	46.6	0.72	33.6	5.65	5.08	0.57
	115	80 / 67	1788	42.6	0.77	32.8	6.27	5.60	0.67
			1625	41.9	0.78	32.7	5.91	5.27	0.64
			1372	41.0	0.75	30.8	5.80	5.23	0.57
	115	75 / 63	1788	39.5	0.82	32.4	6.01	5.34	0.67
			1625	39.0	0.84	32.8	5.66	5.02	0.64
			1372	38.0	0.80	30.4	5.56	4.99	0.57
EBW6000A/NAC060*ZA	95	80 / 67	1788	56.9	0.72	40.9	6.78	6.11	0.67
			1625	55.2	0.69	38.1	6.72	6.08	0.64
			1372	52.4	0.66	34.6	6.60	6.03	0.57
	115	80 / 67	1788	50.0	0.76	38.0	7.29	6.62	0.67
			1625	48.6	0.72	35.0	7.29	6.65	0.64
			1372	46.2	0.69	31.9	7.16	6.59	0.57
	115	75 / 63	1788	46.4	0.81	37.6	7.04	6.37	0.67
			1625	45.0	0.78	35.1	6.98	6.34	0.64
			1372	42.8	0.74	31.7	6.85	6.28	0.57

PERFORMANCE DATA WITH TDKP @ 0.2 IN.WC EXTERNAL STATIC PRESSURE									
MODEL NO.	**AMBIENT**	**ON COIL**	**AIRFLOW**	**CAPACITY**			**Total System**	**Condenser Only**	**Fan coil Only**
INDOOR/OUTDOOR	**F°**	**F°**	**CFM**	**T MBH**	**s/t**	**S MBH**	**KW**	**kW**	**kW**
TDKP36*WA/NAC036*ZA	95	80 / 67	1206	33.2	0.74	24.5	4.00	3.56	0.44
			1149	31.3	0.72	29.1	4.10	3.68	0.42
			1074	28.9	0.70	24.5	4.11	3.72	0.39
	115	80 / 67	1206	29.2	0.77	22.5	4.21	3.77	0.44
			1149	27.6	0.75	29.1	4.23	3.81	0.42
			1074	25.5	0.73	24.5	4.40	4.01	0.39
	115	75 / 63	1206	27.0	0.83	22.4	4.09	3.65	0.44
			1149	25.5	0.81	29.1	4.27	3.85	0.42
			1074	23.5	0.79	24.5	4.28	3.89	0.39
TDKP48*WA/NAC036*ZA	95	80 / 67	1841	39.0	0.79	30.8	3.93	3.26	0.67
			1793	37.8	0.77	29.1	3.95	3.30	0.65
			1750	36.8	0.75	27.6	3.99	3.35	0.64
	115	80 / 67	1841	34.2	0.87	29.8	4.13	3.46	0.67
			1793	33.1	0.83	27.5	4.15	3.50	0.65
			1750	32.2	0.79	25.4	4.18	3.54	0.64
	115	75 / 63	1841	31.8	0.93	29.6	4.02	3.35	0.67
			1793	30.8	0.89	27.4	4.05	3.40	0.65
			1750	30.0	0.84	25.2	4.08	3.44	0.64
TDKP48*WA/NAC048*ZA	95	80 / 67	1841	45.4	0.72	32.7	5.92	5.24	0.67
			1793	44.8	0.73	32.7	5.95	5.30	0.65
			1750	43.6	0.70	30.5	5.99	5.35	0.64
	115	80 / 67	1841	39.6	0.75	29.7	6.40	5.72	0.67
			1793	38.9	0.76	29.6	6.45	5.80	0.65
			1750	38.1	0.73	27.8	6.48	5.84	0.64
	115	75 / 63	1841	37.0	0.80	29.6	6.13	5.46	0.67
			1793	36.5	0.79	28.9	6.18	5.53	0.65
			1750	35.6	0.78	27.8	6.21	5.57	0.64

*WA=AWA, RWA *ZA= AZA, PZA

PERFORMANCE DATA WITH TDKP @ 0.2 IN.WC EXTERNAL STATIC PRESSURE									
MODEL NO.	**AMBIENT**	**ON COIL**	**AIRFLOW**	**CAPACITY**			**Total System**	**Condenser Only**	**Fan coil Only**
INDOOR/OUTDOOR	**F°**	**F°**	**CFM**	**T MBH**	**s/t**	**S MBH**	**KW**	**kW**	**kW**
TDKP60*WA/NAC048*ZA	95	80 / 67	1940	46.1	0.72	33.2	5.92	5.21	0.71
			1890	45.5	0.73	33.2	5.98	5.29	0.69
			1799	44.3	0.70	31.0	5.99	5.33	0.66
	115	80 / 67	1940	40.5	0.75	30.4	6.40	5.69	0.71
			1890	39.8	0.76	30.3	6.45	5.76	0.69
			1799	39.0	0.73	28.4	6.50	5.84	0.66
	115	75 / 63	1940	37.5	0.80	30.0	6.13	5.42	0.71
			1890	37.1	0.82	30.4	6.18	5.49	0.69
			1799	36.1	0.78	28.2	6.23	5.57	0.66
TDKP60*WA/NAC060*ZA	95	80 / 67	1940	57.5	0.73	41.9	7.14	6.43	0.71
			1890	57.0	0.70	39.9	7.18	6.49	0.69
			1799	54.2	0.67	36.3	7.23	6.57	0.66
	115	80 / 67	1940	50.7	0.77	39.0	7.74	7.03	0.71
			1890	50.2	0.73	36.6	7.79	7.10	0.69
			1799	47.7	0.70	33.4	7.80	7.14	0.66
	115	75 / 63	1940	47.9	0.82	39.3	7.42	6.71	0.71
			1890	46.5	0.79	36.7	7.43	6.74	0.69
			1799	44.2	0.75	33.1	7.44	6.78	0.66

*WA=AWA, RWA *ZA= AZA, PZA

PERFORMANCE DATA WITH MK @ HIGH SPEED									
MODEL NO.	AMBIENT	ON COIL	AIRFLOW	CAPACITY			Total System	Condenser Only	Fan coil Only
INDOOR/OUTDOOR	F°	F°	CFM	T MBH	s/t	S MBH	KW	kW	kW
MK36AWA/NAC036*ZA	95	80 / 67	1100	32.0	0.69	22.1	3.70	3.30	0.40
	115	80 / 67		28.2	0.72	20.3	4.01	3.61	0.40
	115	75 / 63		26.1	0.77	20.1	3.84	3.44	0.40
MK048AWA/NAC048*ZA	95	80 / 67	1450	45.0	0.67	30.2	5.29	4.76	0.53
	115	80 / 67		39.6	0.70	27.7	5.74	5.21	0.53
	115	75 / 63		36.7	0.75	27.5	5.49	4.96	0.53
MK060AWA/NAC060*ZA	95	80 / 67	1850	55.0	0.67	36.9	6.70	6.02	0.68
	115	80 / 67		48.4	0.70	33.9	7.27	6.59	0.68
	115	75 / 63		44.8	0.75	33.6	6.96	6.28	0.68

PERFORMANCE DATA WITH SC @ HIGH SPEED									
MODEL NO.	AMBIENT	ON COIL	AIRFLOW	CAPACITY			Total System	Condenser Only	Fan coil Only
INDOOR/OUTDOOR	F°	F°	CFM	T MBH	s/t	S MBH	KW	kW	kW
SC36MNVC/NAC036*ZA	95	80 / 67	640	31.0	0.67	20.8	3.70	3.47	0.23
	115	80 / 67		27.3	0.70	19.1	4.03	3.80	0.23
	115	75 / 63		25.3	0.75	19.0	3.85	3.62	0.23
SC48MNVC/NAC048*ZA	95	80 / 67	750	42.0	0.67	28.1	5.10	4.83	0.27
	115	80 / 67		37.0	0.70	25.9	5.56	5.29	0.27
	115	75 / 63		34.2	0.75	25.7	5.31	5.04	0.27

PERFORMANCE DATA WITH HWSR @ HIGH SPEED									
MODEL NO.	AMBIENT	ON COIL	AIRFLOW	CAPACITY			Total System	Condenser Only	Fan coil Only
INDOOR/OUTDOOR	F°	F°	CFM	T MBH	s/t	S MBH	KW	kW	kW
HWSR36AWA/NAC036*ZA	95	80 / 67	900	33.0	0.67	22.1	3.66	3.33	0.33
	115	80 / 67		29.0	0.70	20.3	3.98	3.65	0.33
	115	75 / 63		26.9	0.75	20.2	3.80	3.47	0.33