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Arcoaire®
Air Conditioning & Heating

10+ SEER - AIR CONDITIONER



Representative photo only, some models may vary in appearance.

1 1/2 THRU 5 TONS SPLIT SYSTEM FEATURES

- Service valves on all models with 3-1/2" stubs
- External refrigerant connections
- Copper tube / aluminum fin coil
- Prepainted condenser fins
- Fan motor in-line disconnect plug
- Factory charge
- Top air discharge for quieter operation
- Galvanized steel cabinet with integral base rails
- Triple step paint process
- Coated inlet grille
- 5 Year parts, 5 year compressor limited warranties
- 10+ SEER with Expansion Valve coils



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



International Comfort Products Corporation (USA)
651 Heil-Quaker Ave.
Lewisburg, Tennessee 37091

RESIDENTIAL AND COMMERCIAL SYSTEMS • SPLIT SYSTEMS • PACKAGED AIR CONDITIONERS •
COMBINATION GAS / ELECTRIC UNITS • HEAT PUMPS • AIR HANDLERS • MANUFACTURED HOME AIR
CONDITIONERS • GAS, OIL AND ELECTRIC FURNACES

Base Specifications

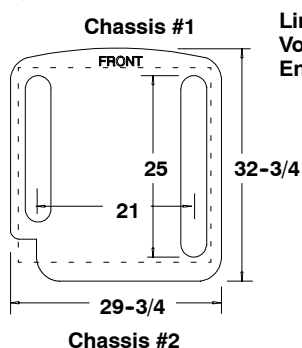
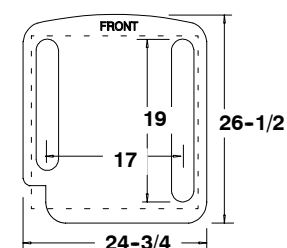
	NAC018AKA	NAC024AKA	NAC030AKA	NAC036AKA	NAC042AKA	NAC048AKA	NAC060AKA
	NAC018GKA	NAC024GKA	NAC030GKA	NAC036GKA	NAC042GKA	NAC048GKA	NAC060GKA
Model Number	NAC018MKA	NAC024MKA	NAC030MKA	NAC036MKA	NAC042MKA	NAC048MKA	NAC060MKA
Max. Cooling Capacity (Btuh)	18400	24200	29000	35600	40500	46000	57000
SEER Label	10	10	10	10	10	10	10
Sound Rating Decibels	74	76	76	76	78	80	80
Compressor Type	Recip.	Recip.	Recip.	Recip.	Recip.	Recip.	Scroll
Fan HP / Type / Speeds	1/8-PSC-1	1/8-PSC-1	1/5-PSC-1	1/5-PSC-1	1/5-PSC-1	1/3-PSC-1	1/3-PSC-1
Fan RPM / Max. CFM	1075 / 1400	1075 / 1400	1075 / 2000	1075 / 2000	1075 / 2000	1075 / 3000	1075 / 3000
Coil Face Area (Sq Ft)	9.84	10.73	10.73	11.63	13.42	15.39	17.76
Coil Rows / Fins Per Inch	1 / 20	1 / 20	1 / 20	1 / 20	1 / 20	1 / 20	1 / 20
Line Connection Suction I.D. Size (In.)	3/4	3/4	3/4	3/4	7/8	7/8	7/8
Line Connection Liquid I.D. Size (In.)	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Supplied Optional Evaporator Orifice Size	.048	.055	.063	.067	.078	.079	.090
Factory Charge - R22 (Oz)	59	73	74	82	98	134	150
Weight Lbs. (Ship)	135	140	142	145	165	190	198

Electrical Specifications - 208 - 230 / 1 / 60, Voltage Range 197V - 253V

Minimum Circuit Ampacity	11.7	13.2	18.5	19.4	22.7	24.7	33.2
Wire Size/Max. Length (AWG Cu) Ft.	14 / 45	14 / 40	14 / 30	12 / 40	12 / 30	12 / 30	8 / 55
Time Delay Fuse (Amps)	15	20	25	25	30	30	40
Max. Fuse or HACR Breaker Size (Amps)	20	20	30	30	35	40	50
Compressor Full Run / Lock Rotor Amps	8.6 / 49	9.8 / 56	13.7 / 75	14.4 / 82	17.1 / 105	18.3 / 102	25 / 150
Fan Full Load / Lock Rotor Amps.	.66 / 1.55	.66 / 1.55	1.3 / 2.33	1.3 / 2.33	1.3 / 2.33	1.9 / 3.7	1.9 / 3.7

Dimensions		
Model	Chassis	Height (H)
NAC018	1	24
NAC024	1	26
NAC030	1	26
NAC036	1	28
NAC042	1	32
NAC048	2	28
NAC060	2	32

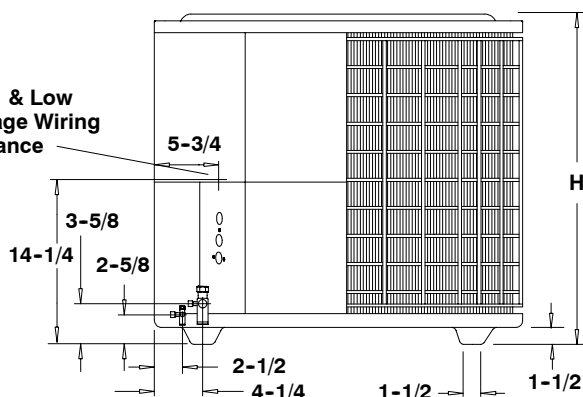
ALL DIMENSIONS IN INCHES



Minimum Mounting Pad Sizes with pad starting at 15" from structure for minimum clearance of 12" to structure.

Chassis #1 20" W X 20" D
Chassis #2 24" W X 26" D

Line & Low Voltage Wiring Entrance



Accessory	Description	Used On
AMF153TKB	Expansion Valve Kit	1 1/2 - 3 Ton
AMF355TKB	Expansion Valve Kit	3 1/2 - 5 Ton
AMA001TDA	Indoor Blower Time Delay	All Models
24370800 *	Compressor Anti-short cycle 24 Volt 3 Min. Time Delay	All Models
1070822*	Compressor Anti-short cycle 24 Volt 5 Min. Time Delay	All Models
1148671 *	Low Ambient Kit (Fan Cycling Switch)	All Models
1053477 *	Compressor Crankcase Heater Solid State "Stick On" Type	All Models
1148113 *	Compressor Crankcase Heater "Wrap-around" Type	All Models
1060834 *	Compressor Sound Jacket (Large Scroll)	5 Ton

* Order from Service Parts

PERFORMANCE DATA COOLING

Outdoor Model	Indoor Model	Cooling 95 F					CFM	Pin/TXV
		Btuh	SEER	S/T	EER	WATTS		
NAC018A(G)KA*	(1)EP*30F****+TXV153+EV(MV)12F19****	18400	11.50	.73	11.1	1600	600	TXV
NAC018A(G)KA*	EE*36B****	18400	10.50	.73	9.9	1752	600	.048
NAC018A(G)KA*	EE*36F****	18400	10.50	.73	9.9	1752	600	.048
NAC018A(G)KA*	EMH30F****	18400	10.50	.73	9.9	1752	600	.048
NAC018A(G)KA*	EP*30B****	18400	10.50	.73	9.9	1752	600	.048
NAC018A(G)KA*	EP*30F****	18400	10.50	.73	9.9	1752	600	.048
NAC018A(G)KA*	EP*24B****+TD1	18000	10.30	.73	9.6	1748	600	.048
NAC018A(G)KA*	EMH24F****	18000	10.25	.73	9.6	1756	600	.048
NAC018A(G)KA*	EP*24B****	18000	10.25	.73	9.6	1756	600	.048
NAC018A(G)KA*	EAH5524**	18000	10.15	.74	9.5	1773	600	.048
NAC018A(G)KA*	FCP24****	18000	10.00	.73	9.5	1800	600	.048
NAC018A(G)KA*	EE*24B****	17300	10.00	.72	9.4	1730	600	.048
NAC018A(G)KA*	EP*18B****	17300	10.00	.72	9.4	1730	600	.048
NAC024A(G)K**	(1)EP*36F****+TXV153+EV(MV)12F19****	24200	11.25	.75	10.5	2151	800	TXV
NAC024A(G)K**	(1)EP*36J****+TXV153+EV(MV)16J22****	24200	11.25	.75	10.5	2151	800	TXV
NAC024A(G)KA*	EMH36F****	24000	10.25	.75	9.5	2341	800	.055
NAC024A(G)KA*	EP*36B****	24000	10.25	.74	9.5	2341	800	.055
NAC024A(G)KA*	EP*36F****	24000	10.25	.74	9.5	2341	800	.055
NAC024A(G)KA*	EP*36J****	24000	10.25	.74	9.5	2341	800	.055
NAC024A(G)KA*	(1)EP*30F****+TXV153+EV(MV)12F19****	23600	11.25	.75	10.3	2098	800	TXV
NAC024A(G)KA*	EP*30B****+TD1	23400	10.25	.74	9.3	2283	800	.055
NAC024A(G)KA*	EP*30F****+TD1	23400	10.25	.74	9.3	2283	800	.055
NAC024A(G)KA*	EE*36B****	23400	10.20	.74	9.5	2294	800	.055
NAC024A(G)KA*	EE*36F****	23400	10.20	.74	9.5	2294	800	.055
NAC024A(G)KA*	EMH30F****	23400	10.20	.74	9.3	2294	800	.055
NAC024A(G)KA*	EP*30B****	23400	10.20	.74	9.3	2294	800	.055
NAC024A(G)KA*	EP*30F****	23400	10.20	.74	9.3	2294	800	.055
NAC024A(G)KA*	EAH5524**	22800	10.00	.75	9.2	2280	800	.055
NAC024A(G)KA*	EE*24B****+TD1	22800	10.00	.73	9.3	2280	800	.055
NAC024A(G)KA*	EE*30B****	22800	10.00	.74	9.1	2280	800	.055
NAC024A(G)KA*	EMH24F****	22800	10.00	.74	9.1	2280	800	.055
NAC024A(G)KA*	EP*24B****	22800	10.00	.74	9.1	2280	800	.055
NAC024A(G)KA*	EPP024****+TD1	22800	10.00	.75	9.1	2280	800	.055
NAC024A(G)KA*	FCP24****	22800	10.00	.74	9.0	2280	800	.055
NAC030A(G)K**	(1)EP*36F****+TXV153+EV(MV)12F19****	29000	11.25	.76	10.2	2578	1000	TXV
NAC030A(G)K**	(1)EP*36J****+TXV153+EV(MV)16J22****	29000	11.25	.76	10.2	2578	1000	TXV
NAC030A(G)K**	(1)EP*30F****+TXV153+EV(MV)12F19****	29000	11.00	.76	10.0	2636	1000	TXV
NAC030A(G)KA*	EP*36B****+TD1	28800	10.25	.75	9.2	2810	1000	.063
NAC030A(G)KA*	EP*36F****+TD1	28800	10.25	.75	9.2	2810	1000	.063
NAC030A(G)KA*	EP*36J****+TD1	28800	10.25	.75	9.2	2810	1000	.063
NAC030A(G)KA*	EMH36F****	28800	10.20	.75	9.2	2824	1000	.063
NAC030A(G)KA*	EP*36B****	28800	10.20	.75	9.2	2824	1000	.063
NAC030A(G)KA*	EP*36F****	28800	10.20	.75	9.2	2824	1000	.063
NAC030A(G)KA*	EP*36J****	28800	10.20	.75	9.2	2824	1000	.063
NAC030A(G)KA*	EAH5536**	28800	10.00	.75	9.3	2880	1000	.063
NAC030A(G)KA*	EE*36B****	28000	10.00	.75	9.3	2800	1000	.063
NAC030A(G)KA*	EMH30F****	28000	10.00	.76	9.2	2800	1000	.063
NAC030A(G)KA*	EP*30B****	28000	10.00	.75	9.2	2800	1000	.063
NAC030A(G)KA*	EP*30F****	28000	10.00	.75	9.2	2800	1000	.063
NAC030A(G)KA*	FCP30****	28000	10.00	.75	9.0	2800	1000	.063
NAC030A(G)KA*	EE*30B****+TD1	27800	10.00	.75	9.2	2780	1000	.063
NAC030A(G)KA*	EPP030****+TD1	27800	10.00	.74	9.0	2780	1000	.063
NAC036A(G)K**	(1)EP*48F****+TXV153+EV(MV)12F19****	35600	11.40	.76	10.4	3123	1200	TXV
NAC036A(G)K**	(1)EP*48J****+TXV153+EV(MV)16J22****	35600	11.40	.76	10.4	3123	1200	TXV
NAC036A(G)K**	(1)EP*48N****+TXV153+EV(MV)20N26****	35600	11.40	.76	10.4	3123	1200	TXV
NAC036A(G)KA*	EMH48F****	35400	10.40	.76	9.4	3404	1200	.067
NAC036A(G)KA*	EP*48F****	35400	10.40	.75	9.4	3404	1200	.067
NAC036A(G)KA*	EP*48J****	35400	10.40	.75	9.4	3404	1200	.067
NAC036A(G)KA*	EP*48N****	35400	10.40	.75	9.4	3404	1200	.067
NAC036A(G)KA*	(1)EP*42F****+TXV153+EV(MV)12F19****	34600	11.20	.72	10.3	3089	1200	TXV
NAC036A(G)KA*	(1)EP*42J****+TXV153+EV(MV)16J22****	34600	11.20	.72	10.3	3089	1200	TXV
NAC036A(G)KA*	EP*42F****+TD1	34400	10.20	.71	9.3	3373	1200	.067
NAC036A(G)KA*	EP*42J****+TD1	34400	10.20	.71	9.3	3373	1200	.067
NAC036A(G)KA*	EMH42F****	34400	10.15	.72	9.3	3389	1200	.067
NAC036A(G)KA*	EP*42F****	34400	10.15	.71	9.3	3389	1200	.067
NAC036A(G)KA*	EP*42J****	34400	10.15	.71	9.3	3389	1200	.067

(1) Requires Hard Start Kit

Many matches require a pin change. Always check pin size to insure maximum performance. PIN=Refrigerant orifice PIN size. TD1=AMA001TDA Indoor Blower Time Delay Kit, required to make SEER indicated. All products using an electronic fan control satisfy TD1 requirements. TXV=Thermostatic Expansion Valve, TXV153 (AMF153) replaces HTXV1,2 or 3 where listed in ratings, TXV335 (AMF335) Replaces HTXV4 or 5 where listed in ratings. EP* = EPA, EPD, EPM series of coils. EX* = EXA, EXD, EXM series of coils. EE* = EEA OR EED series of coils.

PERFORMANCE DATA COOLING

Outdoor Model	Indoor Model	Cooling 95 F					CFM	Pin/TXV
		Btuh	SEER	S/T	EER	WATTS		
NAC036A(G)K**	(1)EP*36F****+TXV153+EV(MV)12F19****	33800	11.05	.79	10.1	3059	1200	TXV
NAC036A(G)K**	(1)EP*36J****+TXV153+EV(MV)16J22****	33800	11.05	.79	10.1	3059	1200	TXV
NAC036A(G)KA*	EMH36F****	33600	10.00	.79	9.1	3360	1200	.067
NAC036A(G)KA*	EP*36B****	33600	10.00	.78	9.1	3360	1200	.067
NAC036A(G)KA*	EP*36F****	33600	10.00	.78	9.1	3360	1200	.067
NAC036A(G)KA*	EP*36J****	33600	10.00	.78	9.1	3360	1200	.067
NAC036A(G)KA*	FCP36****	33600	10.00	.78	9.0	3360	1200	.067
NAC036A(G)K**	(1)EE*36F****+TXV153+EV(MV)12F19****	33200	11.00	.74	10.3	3018	1200	TXV
NAC036A(G)K**	(1)EP*30F****+TXV153+EV(MV)12F19****	33200	11.00	.73	10.3	3018	1200	TXV
NAC036A(G)KA*	EE*36B****+TD1	33000	10.00	.74	9.3	3300	1200	.067
NAC036A(G)KA*	EE*36F****+TD1	33000	10.00	.74	9.3	3300	1200	.067
NAC036A(G)KA*	EPP036****+TD1	33000	10.00	.76	9.0	3300	1200	.067
NAC036A(G)KA*	EAH5536**+TD1	32600	10.00	.73	9.0	3260	1200	.067
NAC042A(G)K**	(1)EP*48J****+TXV355+EV(MV)16J22****	40500	11.35	.77	10.3	3568	1300	TXV
NAC042A(G)K**	(1)EP*48N****+TXV355+EV(MV)16J22****	40500	11.35	.77	10.3	3568	1300	TXV
NAC042A(G)KA*	EMH48F****	40500	10.30	.76	9.4	3932	1400	.079
NAC042A(G)KA*	EP*48F****	40500	10.30	.76	9.4	3932	1400	.079
NAC042A(G)KA*	EP*48J****	40500	10.30	.76	9.4	3932	1400	.079
NAC042A(G)K**	(1)EP*42J****+TXV355+EV(MV)16J22****	40000	11.05	.75	10.3	3620	1225	TXV
NAC042A(G)KA*	EP*48F****+TD1	40000	10.35	.76	9.3	3865	1300	.079
NAC042A(G)KA*	EP*48J****+TD1	40000	10.35	.76	9.3	3865	1300	.079
NAC042A(G)KA*	EP*48N****+TD1	40000	10.35	.76	9.3	3865	1300	.079
NAC042A(G)KA*	EP*48N****	40000	10.30	.76	9.3	3883	1300	.079
NAC042A(G)KA*	EAH5548****	39500	10.00	.78	9.2	3950	1400	.079
NAC042A(G)KA*	EMH42F****	39500	10.00	.74	9.3	3950	1225	.078
NAC042A(G)KA*	EP*42F****	39500	10.00	.74	9.3	3950	1225	.078
NAC042A(G)KA*	EP*42J****	39500	10.00	.74	9.3	3950	1225	.078
NAC042A(G)KA*	FCP42****	39500	10.00	.74	9.1	3950	1400	.078
NAC042A(G)K**	(1)EP*36J****+TXV355+EV(MV)16J22****	37800	11.00	.74	10.2	3436	1225	TXV
NAC042A(G)KA*	EE*42F****+TD1	37600	10.00	.74	9.2	3760	1225	.078
NAC042A(G)KA*	EP*36B****+TD1	37600	10.00	.74	9.2	3760	1225	.078
NAC042A(G)KA*	EP*36F****+TD1	37600	10.00	.74	9.2	3760	1225	.078
NAC042A(G)KA*	EP*36J****+TD1	37600	10.00	.74	9.2	3760	1225	.078
NAC048A(G)K**	(1)EP*60J****+TXV355+EV(MV)16J22****	46000	11.50	.77	10.4	4000	1600	TXV
NAC048A(G)K**	(1)EP*60N****+TXV355+EV(MV)20J26****	46000	11.50	.77	10.4	4000	1600	TXV
NAC048A(G)KA*	EP*60J****+TD1	45500	10.50	.76	9.4	4333	1600	.079
NAC048A(G)KA*	EP*60N****	45500	10.50	.76	9.4	4333	1600	.079
NAC048A(G)KA*	EP*60N****+TD1	45500	10.50	.76	9.4	4333	1600	.079
NAC048A(G)KA*	EP*60J****	45500	10.40	.76	9.4	4375	1600	.079
NAC048A(G)KA*	EP*48J****	45000	10.50	.76	9.4	4286	1600	.079
NAC048A(G)KA*	FCP48****	45000	10.00	.79	9.2	4500	1600	.079
NAC048A(G)KA*	EP*48N****	44500	10.50	.76	9.4	4238	1600	.079
NAC048A(G)KA*	EAH5560**	44000	10.00	.78	9.3	4400	1600	.079
NAC048A(G)KA*	EMH48F****	43000	10.00	.73	9.3	4300	1300	.079
NAC048A(G)KA*	EP*48F****	43000	10.00	.73	9.3	4300	1300	.079
NAC048A(G)KA*	EE*48F****+TD1	42000	10.00	.72	9.2	4200	1400	.079
NAC060A(G)K**	(1)EP*60J****+TXV355+EV(MV)16J22****	57000	10.40	.76	9.4	5481	1800	TXV
NAC060A(G)K**	(1)EP*60N****+TXV355+EV(MV)20J26****	57000	10.40	.76	9.4	5481	1800	TXV
NAC060A(G)KA*	EP*60J****+TD1	57000	10.20	.75	9.2	5588	2000	.090
NAC060A(G)KA*	EP*60N****+TD1	57000	10.20	.75	9.2	5588	2000	.090
NAC060A(G)KA*	EP*60N****	57000	10.15	.75	9.2	5616	2000	.090
NAC060A(G)KA*	FCP60****	57000	10.00	.75	9.0	5700	1800	.090
NAC060A(G)KA*	EP*60J****	56500	10.00	.75	9.0	5650	1600	.090
NAC060A(G)KA*	EAH5560**+TD1	56000	10.00	.71	9.0	5600	1800	.090
NAC060A(G)K**	(1)EE*60J****+TXV355+EV(MV)16J22****	53000	10.20	.71	9.5	5196	1800	TXV
NAC060A(G)K**	(1)EP*48N****+TXV355+EV(MV)20N26****	53000	10.20	.72	9.5	5196	1800	TXV
NAC060A(G)KA*	EE*60J****+TD1	53000	10.00	.69	9.3	5300	1400	.090

(1) Requires Hard Start Kit

Many matches require a pin change. Always check pin size to insure maximum performance. PIN=Refrigerant orifice PIN size. TD1=AMA001TDA Indoor Blower Time Delay Kit, required to make SEER indicated. All products using an electronic fan control satisfy TD1 requirements. TXV=Thermostatic Expansion Valve, TXV153 (AMF153) replaces HTXV1,2 or 3 where listed in ratings, TXV335 (AMF335) Replaces HTXV4 or 5 where listed in ratings. EP* = EPA, EPD, EPM series of coils. EX* = EXA, EXD, EXM series of coils. EE* = EEA OR EED series of coils.

MODEL NUMBER IDENTIFICATION GUIDE

MODEL NUMBER PRODUCT FAMILY N = Brand	N	AC	0	24	A	K	A	SALES CODE ELECTRICAL K = 208/230-1-60 H = 208/230-3-60
PRODUCT TYPE AC = Air Conditioning CA = Condenser A/C HP = Heat Pump CH = Condenser H/P								CONNECTIONS A = Sweat / Valve G = Sweat / Valve w/Coil Guard M = Mesh
NOMINAL SEER RATING 0 = 10 2 = 12 4 = 14								NOMINAL CAPACITY MBTUH 18 = 18,000 24 = 24,000 30 = 30,000 36 = 36,000 42 = 42,000 48 = 48,000 60 = 60,000

EXTENDED REFRIGERANT LINE CORRECTION FACTORS

Varying Line Length in Feet (m) vs. Total Capacity Multiplier					
25 (8)	50 (15)	75 (23)	100 (30)	125 (38)	150 (46)
1.00	.99	.98	.96	.94	.92

REFRIGERANT CHARGE DATA

All models are factory charged with R-22 for outdoor unit, 15' (8m) of refrigerant line and matching indoor section.
Refrigerant charge correction per foot (305mm) of line:
1/4" O.D. = .25 oz.; 5/16" O.D. = .45 oz.; 3/8" O.D. = .60 oz.;
1/2" O.D. = 1.2 oz.

VOLTAGE CORRECTION FACTORS

Volts	Capacity	Watts
208	.98	.99

INDOOR AIRFLOW CORRECTION TABLE

% Rated Air	90	95	100	105	110
Total Cap. Mult.	.98	.99	1.00	1.01	1.03
Sens Cap. Mult.	.95	.98	1.00	1.03	1.05

INDOOR TEMPERATURE CORRECTION TABLE

(Based on 95°F Ambient)

Indoor D.B. °F (°C).	Correction Factor	Entering Indoor Wet Bulb °F (°C).						
		59 (15)	61 (16)	63 (17)	65 (18)	67 (19)	69 (20)	71 (21)
70 (21)	Total Cap. Mult.	.90	.93	.96	.99	1.02	-	-
	Sens Cap. Mult.	.86	.85	.82	.77	.70	-	-
75 (24)	Total Cap. Mult.	.89	.92	.95	.98	1.01	1.04	-
	Sens Cap. Mult.	1.04	1.03	1.00	.95	.88	.78	-
80 (26)	Total Cap. Mult.	.88	.91	.94	.97	1.00	1.03	1.06
	Sens Cap. Mult.	1.18	1.17	1.14	1.08	1.00	.89	.73
85 (29)	Total Cap. Mult.	-	.90	.93	.96	.99	1.02	1.05
	Sens Cap. Mult.	-	1.29	1.26	1.20	1.11	.98	.81

Bold Type = approximately 50% Relative Humidity