

# SmartComfort 2000

# TEMPSTAR®

Heating and Cooling Products

## 10+ SEER - AIR CONDITIONER



Representative photo only, some models may vary in appearance.

### 1 1/2 THRU 5 TONS SPLIT SYSTEM FEATURES

- "Durawhisper"™ Top design for quiet operation
- Rugged and coated inlet and discharge grilles for superior coil protection
- Filled with Service Friendly features
- High efficiency scroll compressors on all models
- Service valves on all models with 3-1/2" stubs
- External refrigerant connections
- Copper tube / aluminum fin coil
- Prepainted condenser fins
- 2 Speed Fan motor
- Fan motor in-line disconnect plug
- Factory charged with R-22, condenser plus 25 Ft. lines
- G-90 Galvanized steel cabinet with integral base rails
- Triple step paint process
- Easy side access sloped control panel
- 5 Year parts, 10 year compressor limited warranties
- 11+ SEER with Expansion Valve coils & Variable Speed Blowers or Furnaces



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

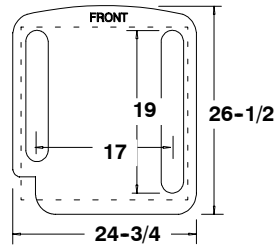
Model Number	TCA018AKA	TCA024AKA	TCA030AKA	TCA036AKA	TCA042AKA	TCA048AKA	TCA060AKA
Max. Cooling Capacity (Btuh)	18500	24600	30000	36600	42500	47500	60000
SEER Label	10	10	10	10	10	10	10
Sound Rating Decibels (Hi / Lo)	70 / 68	72 / 70	74 / 72	74 / 72	74 / 72	76 / 74	76 / 74
Fan HP / Type / Speeds	1/8-PSC-2	1/8-PSC-2	1/5-PSC-2	1/5-PSC-2	1/5-PSC-2	1/3-PSC-2	1/3-PSC-2
Fan RPM's	925-1075	925-1075	925-1075	925-1075	925-1075	925-1075	925-1075
Fan Max. CFM	1400	1400	2000	2000	2000	3000	3000
Coil Face Area (Sq Ft)	10.73	10.73	10.73	11.63	15.20	17.76	18.94
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	.051	.057	.065	.073	.078	.079	.090
Factory Charge - R22 (Oz)	60	69	74	80	98	123	131
Weight Lbs. (Ship)	131	133	135	140	171	198	208

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

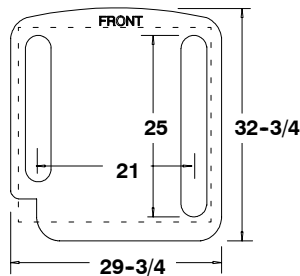
Minimum Circuit Ampacity	11.9	13.5	18.9	21.3	24.5	29.1	35.7
Wire Size/Max. Length (AWG Cu) Ft.	14 / 50	14 / 40	14 / 30	12 / 35	12 / 25	10 / 40	8 / 50
Time Delay Fuse (Amps)	15	20	25	30	30	35	45
Max. Fuse or HACR Breaker Size (Amps)	20	20	30	35	40	50	60
Compressor Full Run / Lock Rotor Amps	9.0 / 42	10.3 / 54	14.1 / 73	16.0 / 100	18.6 / 127	21.8 / 131	27.1 / 175
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)
018	1	30-1/8
024	1	30-1/8
030	1	30-1/8
036	1	32-1/8
042	1	40-1/8
048	2	36-1/8
060	2	38-1/8

ALL DIMENSIONS IN INCHES



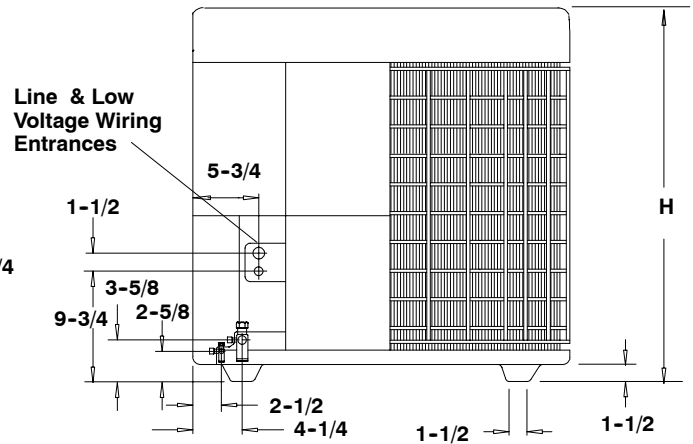
Chassis #1



Chassis #2

Minimum Mounting Pad Sizes with pad starting at 9" from structure for minimum clearance of 6".

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



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
1060833*	Compressor Sound Jacket (Small Scroll)	1 1/2 - 3 Ton
1060834 *	Compressor Sound Jacket (Large Scroll)	3 1/2 - 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		
TCA018AKA**	EX*24F****+VNK/NTVM050	18500	12.20	.74	11.1	1516	600	TXV
TCA018AKA**	EX*24F****+VNK/NTVM075	18500	12.10	.74	11.0	1529	600	TXV
TCA018AKA**	EAH5536***+TXV2+TD1	18500	11.50	.74	10.4	1609	600	TXV
TCA018AKA**	EAH5536***+TXV2	18500	11.20	.74	10.4	1652	600	TXV
TCA018AKA**	EAH5536***+TD1	18500	10.90	.74	10.4	1697	600	.051
TCA018AKA**	EX*24B****+TD1	18500	10.90	.73	10.3	1697	600	TXV
TCA018AKA**	EAH5536**	18500	10.70	.74	10.4	1729	600	.051
TCA018AKA**	EX*24F****+EV(MV)12F19****	18400	12.00	.73	11.0	1533	600	TXV
TCA018AKA**	EX*24F****+TD1	18300	11.00	.73	10.3	1664	600	TXV
TCA018AKA**	EX*24B****	18300	10.80	.73	10.3	1694	600	TXV
TCA018AKA**	EX*24F****	18300	10.80	.73	10.3	1694	600	TXV
TCA018AKA**	EP*30B****+TXV2+VNK/NTVM050	18200	12.10	.76	10.9	1504	600	TXV
TCA018AKA**	EP*30B****+TXV2+VNK/NTVM075	18200	12.00	.76	10.8	1517	600	TXV
TCA018AKA**	FCX24****	18200	10.70	.73	10.2	1701	600	TXV
TCA018AKA**	EP*30B****+TXV2+TD1	18000	11.10	.75	10.1	1622	600	TXV
TCA018AKA**	EP*30F****+TXV2+TD1	18000	11.10	.75	10.1	1622	600	TXV
TCA018AKA**	EAH5524***+TXV2+TD1	18000	11.00	.74	10.2	1636	600	TXV
TCA018AKA**	EP*24B****+TXV2+TD1	18000	11.00	.75	10.1	1636	600	TXV
TCA018AKA**	EP*30B****+TXV2	18000	11.00	.75	10.1	1636	600	TXV
TCA018AKA**	EP*30F****+TXV2	18000	11.00	.75	10.1	1636	600	TXV
TCA018AKA**	EAH5524***+TXV2	18000	10.90	.74	10.2	1651	600	TXV
TCA018AKA**	EP*24B****+TXV2	18000	10.90	.75	10.1	1651	600	TXV
TCA018AKA**	EP*30B****+TD1	18000	10.80	.75	10.1	1667	600	.051
TCA018AKA**	EP*30F****+TD1	18000	10.80	.75	10.1	1667	600	.051
TCA018AKA**	EAH5524***+TD1	18000	10.70	.74	10.2	1682	600	.051
TCA018AKA**	EP*24B****+TD1	18000	10.70	.75	10.1	1682	600	.051
TCA018AKA**	EE*36B****	18000	10.60	.75	10.1	1698	600	.051
TCA018AKA**	EE*36F****	18000	10.60	.75	10.1	1698	600	.051
TCA018AKA**	EMH30F****	18000	10.60	.74	10.1	1698	600	.051
TCA018AKA**	EP*30B****	18000	10.60	.75	10.1	1698	600	.051
TCA018AKA**	EP*30F****	18000	10.60	.75	10.1	1698	600	.051
TCA018AKA**	EAH5524**	18000	10.50	.74	10.2	1714	600	.051
TCA018AKA**	EMH24F****	18000	10.50	.74	10.1	1714	600	.051
TCA018AKA**	EP*24B****	18000	10.50	.75	10.1	1714	600	.051
TCA018AKA**	EP*18B****+TXV2	17500	10.50	.74	9.9	1667	600	TXV
TCA018AKA**	EP*18B****+TXV2+TD1	17500	10.50	.74	9.9	1667	600	TXV
TCA018AKA**	FCP24****+HTXV3	17500	10.50	.74	9.9	1667	600	TXV
TCA018AKA**	EP*18B****+TD1	17500	10.20	.74	9.9	1716	600	.051
TCA018AKA**	EE*24B****	17500	10.00	.74	9.9	1750	600	.051
TCA018AKA**	EP*18B****	17500	10.00	.74	9.9	1750	600	.051
TCA018AKA**	FCP24****	17500	10.00	.74	9.7	1750	600	.051
TCA024AKA**	EX*36F****+VNK/NTVM100	24600	12.00	.76	10.7	2050	800	TXV
TCA024AKA**	EX*36F****+VNK/NTVM125	24600	12.00	.76	10.7	2050	800	TXV
TCA024AKA**	EX*36F****+EV(MV)12F19****	24400	12.00	.76	10.7	2033	800	TXV
TCA024AKA**	EP*36J****+HTXV+VNK/NTVM100	24200	11.80	.76	10.5	2051	800	TXV
TCA024AKA**	EP*36J****+TXV3+VNK/NTVM125	24200	11.80	.76	10.5	2051	800	TXV
TCA024AKA**	EX*24F****+VNK/NTVM100	24200	11.80	.76	10.5	2051	800	TXV
TCA024AKA**	EX*24F****+VNK/NTVM050	24200	11.70	.76	10.4	2068	800	TXV
TCA024AKA**	EX*24F****+VNK/NTVM075	24200	11.60	.76	10.3	2086	800	TXV
TCA024AKA**	EX*36F****	24200	11.00	.76	10.0	2200	800	TXV
TCA024AKA**	EX*36J****	24200	11.00	.76	10.0	2200	800	TXV
TCA024AKA**	EX*24F****+EV(MV)12F19****	24000	11.60	.75	10.3	2069	800	TXV
TCA024AKA**	EX*24B****+TD1	24000	10.80	.75	9.8	2222	800	TXV
TCA024AKA**	EX*24F****+TD1	24000	10.80	.75	9.8	2222	800	TXV
TCA024AKA**	EAH5536***+TXV2+TD1	24000	10.70	.75	10.2	2243	800	TXV
TCA024AKA**	EX*24B****	24000	10.70	.75	9.8	2243	800	TXV
TCA024AKA**	EX*24F****	24000	10.70	.75	9.8	2243	800	TXV
TCA024AKA**	EAH5536***+TXV2	24000	10.60	.70	10.2	2264	800	TXV
TCA024AKA**	FCX24****	24000	10.60	.75	9.8	2264	800	TXV
TCA024AKA**	EAH5524***+TXV2+TD1	24000	10.50	.72	9.7	2286	800	TXV
TCA024AKA**	EAH5536***+TD1	24000	10.50	.75	10.2	2286	800	.057
TCA024AKA**	EAH5524***+TXV2	24000	10.40	.72	9.7	2308	800	TXV
TCA024AKA**	FCP36****	24000	10.25	.74	9.5	2341	800	.057
TCA024AKA**	EAH5524***+TD1	24000	10.20	.72	9.7	2353	800	.057
TCA024AKA**	EAH5536**	24000	10.20	.75	10.2	2353	800	.057
TCA024AKA**	EAH5524**	24000	10.00	.72	9.7	2400	800	.057
TCA024AKA**	EP*30F****+TXV2+VNK/NTVM100	23600	11.40	.76	10.4	2070	800	TXV
TCA024AKA**	EP*30F****+TXV2+VNK/NTVM050	23600	11.25	.76	10.3	2098	800	TXV
TCA024AKA**	EP*30F****+TXV2+VNK/NTVM075	23600	11.20	.76	10.2	2107	800	TXV
TCA024AKA**	EP*30B****+TXV2+TD1	23400	10.60	.75	9.7	2208	800	TXV

Many matches require a pin change. Always check pin size to insure maximum performance. PIN=Refrigerant orifice PIN size. TD1=AMA001 TDA 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		
TCA024AKA**	EP*30F****+TXV2+TD1	23400	10.60	.75	9.7	2208	800	TXV
TCA024AKA**	EP*24B****+TXV2+TD1	23400	10.50	.74	9.7	2229	800	TXV
TCA024AKA**	EP*30B****+TXV2	23400	10.50	.76	9.7	2229	800	TXV
TCA024AKA**	EP*30F****+TXV2	23400	10.50	.76	9.7	2229	800	TXV
TCA024AKA**	FCP24****+HTXV3	23400	10.50	.74	9.7	2229	800	TXV
TCA024AKA**	EP*24B****+TXV2	23400	10.40	.74	9.7	2250	800	TXV
TCA024AKA**	EP*30B****+TD1	23400	10.30	.76	9.7	2272	800	.057
TCA024AKA**	EP*30F****+TD1	23400	10.30	.76	9.7	2272	800	.057
TCA024AKA**	EP*24B****+TD1	23400	10.20	.74	9.7	2294	800	.057
TCA024AKA**	FCP30****	23400	10.20	.74	9.3	2294	800	.057
TCA024AKA**	EE*36B****	23400	10.10	.76	9.7	2317	800	.057
TCA024AKA**	EE*36F****	23400	10.10	.76	9.7	2317	800	.057
TCA024AKA**	EMH30F****	23400	10.10	.74	9.7	2317	800	.057
TCA024AKA**	EP*30B****	23400	10.10	.76	9.7	2317	800	.057
TCA024AKA**	EP*30F****	23400	10.10	.76	9.7	2317	800	.057
TCA024AKA**	EE*30B****	23400	10.00	.74	9.7	2340	800	.057
TCA024AKA**	EMH24F****	23400	10.00	.74	9.7	2340	800	.057
TCA024AKA**	EP*24B****	23400	10.00	.74	9.7	2340	800	.057
TCA024AKA**	FCP24****	23400	10.00	.74	9.5	2340	800	.057
TCA024AKA**	EE*24B****+TD1	22600	10.00	.73	9.0	2260	700	.057
TCA024AKA**	EPP024****+TD1	22600	10.00	.76	9.0	2260	800	.057
TCA030AKA**	EX*36F****+TD1	30000	11.00	.74	9.7	2727	1000	TXV
TCA030AKA**	EX*36J****+TD1	30000	11.00	.74	9.7	2727	1000	TXV
TCA030AKA**	EX*36F****	30000	10.90	.74	9.7	2752	1000	TXV
TCA030AKA**	EX*36J****	30000	10.90	.74	9.7	2752	1000	TXV
TCA030AKA**	FCX36****	30000	10.80	.74	9.7	2778	1000	TXV
TCA030AKA**	EX*36J****+VNK/NTVM125	29400	11.70	.75	10.2	2513	1000	TXV
TCA030AKA**	EX*36J****+VNK/NTVM100	29400	11.60	.75	10.1	2534	1000	TXV
TCA030AKA**	EX*36F****+VNK/NTVM050	29400	11.50	.75	10.0	2557	1000	TXV
TCA030AKA**	EX*36F****+VNK/NTVM075	29400	11.35	.75	9.9	2590	1000	TXV
TCA030AKA**	EX*36F****+EV(MV)12F19****	29200	11.70	.74	10.2	2496	1000	TXV
TCA030AKA**	EP*36J****+TXV3+VNK/NTVM100	29000	11.70	.75	9.9	2479	1000	TXV
TCA030AKA**	EP*36J****+TXV3+VNK/NTVM125	29000	11.50	.75	10.0	2522	1000	TXV
TCA030AKA**	EP*36J****+TXV3+VNK/NTVM050	29000	11.30	.75	9.8	2566	1000	TXV
TCA030AKA**	EP*36J****+TXV3+VNK/NTVM075	29000	11.15	.75	9.7	2601	1000	TXV
TCA030AKA**	FCP42****	29000	10.20	.76	9.2	2843	1000	.065
TCA030AKA**	EP*30F****+TXV3+VNK/NTVM050	28800	11.25	.76	9.9	2560	1000	TXV
TCA030AKA**	EP*30F****+TXV3+VNK/NTVM075	28800	11.05	.76	9.7	2606	1000	TXV
TCA030AKA**	EP*36B****+TXV3+TD1	28800	10.80	.75	9.4	2667	1000	TXV
TCA030AKA**	EP*36F****+TXV3+TD1	28800	10.80	.75	9.4	2667	1000	TXV
TCA030AKA**	EP*36J****+TXV3+TD1	28800	10.80	.75	9.4	2667	1000	TXV
TCA030AKA**	EP*36B****+TXV3	28800	10.70	.75	9.4	2692	1000	TXV
TCA030AKA**	EP*36F****+TXV3	28800	10.70	.75	9.4	2692	1000	TXV
TCA030AKA**	EP*36J****+TXV3	28800	10.70	.75	9.4	2692	1000	TXV
TCA030AKA**	EP*36B****+TD1	28800	10.50	.75	9.4	2743	1000	.065
TCA030AKA**	EP*36F****+TD1	28800	10.50	.75	9.4	2743	1000	.065
TCA030AKA**	EP*36J****+TD1	28800	10.50	.75	9.4	2743	1000	.065
TCA030AKA**	EMH36F****	28800	10.30	.76	9.4	2796	1000	.065
TCA030AKA**	EP*36B****	28800	10.30	.75	9.4	2796	1000	.065
TCA030AKA**	EP*36F****	28800	10.30	.75	9.4	2796	1000	.065
TCA030AKA**	EP*36J****	28800	10.30	.75	9.4	2796	1000	.065
TCA030AKA**	FCP36****	28800	10.15	.76	9.1	2837	1000	.065
TCA030AKA**	EP*30B****+TXV3+TD1	28600	10.70	.76	9.4	2673	1000	TXV
TCA030AKA**	EP*30F****+TXV3+TD1	28600	10.70	.76	9.4	2673	1000	TXV
TCA030AKA**	EP*30B****+TXV3	28600	10.60	.76	9.4	2698	1000	TXV
TCA030AKA**	EP*30F****+TXV3	28600	10.60	.76	9.4	2698	1000	TXV
TCA030AKA**	FCP30****+HTXV3	28600	10.60	.76	9.4	2698	1000	TXV
TCA030AKA**	EP*30B****+TD1	28600	10.40	.76	9.4	2750	1000	.065
TCA030AKA**	EP*30F****+TD1	28600	10.40	.76	9.4	2750	1000	.065
TCA030AKA**	EE*36B****	28600	10.20	.76	9.4	2804	1000	.065
TCA030AKA**	EE*36F****	28600	10.20	.76	9.4	2804	1000	.065
TCA030AKA**	EMH30F****	28600	10.20	.76	9.4	2804	1000	.065
TCA030AKA**	EP*30B****	28600	10.20	.76	9.4	2804	1000	.065
TCA030AKA**	EP*30F****	28600	10.20	.76	9.4	2804	1000	.065
TCA030AKA**	FCP30****	28600	10.20	.76	9.2	2804	1000	.065
TCA030AKA**	EAH5536**+TXV3+TD1	28200	10.70	.73	9.2	2636	1000	TXV
TCA030AKA**	EAH5536**+TXV3	28200	10.50	.73	9.2	2686	1000	TXV
TCA030AKA**	EAH5536**+TD1	28200	10.30	.73	9.2	2738	1000	.065
TCA030AKA**	EAH5536**	28200	10.10	.73	9.2	2792	1000	.065
TCA030AKA**	EE*30B****+TD1	28000	10.00	.72	9.2	2800	1000	.065
TCA030AKA**	EPP030****+TD1	28000	10.00	.75	9.0	2800	1000	.065

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			
TCA036AKA**	EX*48N****+VNK/NTVM125	36600	12.10	.74	10.5	3025	1200	TXV	
TCA036AKA**	EP*48N****+TXV3+VNK/NTVM125	36400	12.00	.74	10.4	3033	1200	TXV	
TCA036AKA**	EX*36F****+VNK/NTVM125	36400	12.00	.74	10.4	3033	1200	TXV	
TCA036AKA**	EX*36F****+EV(MV)12F19****	36000	12.00	.74	10.4	3000	1200	TXV	
TCA036AKA**	EP*42J****+TXV3+VNK/NTVM125	36000	11.90	.74	10.7	3025	1200	TXV	
TCA036AKA**	EX*36F****+VNK/NTVM100	36000	11.70	.75	10.2	3077	1200	TXV	
TCA036AKA**	EP*42J****+TXV3+VNK/NTVM100	36000	11.60	.74	10.5	3103	1200	TXV	
TCA036AKA**	EX*36F****+VNK/NTVM050	36000	11.40	.75	9.9	3158	1200	TXV	
TCA036AKA**	EP*42J****+TXV3+VNK/NTVM050	36000	11.30	.74	10.2	3186	1200	TXV	
TCA036AKA**	EX*36F****+TD1	36000	11.10	.74	9.8	3243	1200	TXV	
TCA036AKA**	EX*36J****+TD1	36000	11.10	.74	9.8	3243	1200	TXV	
TCA036AKA**	EP*42F****+TXV3+TD1	36000	11.00	.73	10.1	3273	1200	TXV	
TCA036AKA**	EP*42J****+TXV3+TD1	36000	11.00	.73	10.1	3273	1200	TXV	
TCA036AKA**	EX*36F****	36000	11.00	.74	9.8	3273	1200	TXV	
TCA036AKA**	EX*36J****	36000	11.00	.74	9.8	3273	1200	TXV	
TCA036AKA**	EP*42F****+TXV3	36000	10.90	.73	10.1	3303	1200	TXV	
TCA036AKA**	EP*42J****+TXV3	36000	10.90	.73	10.1	3303	1200	TXV	
TCA036AKA**	FCX36****	36000	10.80	.74	9.8	3333	1200	TXV	
TCA036AKA**	EP*42F****+TD1	36000	10.70	.73	10.1	3364	1200	.073	
TCA036AKA**	EP*42J****+TD1	36000	10.70	.73	10.1	3364	1200	.073	
TCA036AKA**	EMH42F****	36000	10.50	.72	10.1	3429	1200	.073	
TCA036AKA**	EP*42F****	36000	10.50	.73	10.1	3429	1200	.073	
TCA036AKA**	EP*42J****	36000	10.50	.73	10.1	3429	1200	.073	
TCA036AKA**	EP*36J****+TXV3+VNK/NTVM100	35200	11.10	.76	9.5	3171	1200	TXV	
TCA036AKA**	EP*36J****+TXV3+VNK/NTVM125	35200	11.10	.76	9.5	3171	1200	TXV	
TCA036AKA**	EP*36B****+TXV3+TD1	35200	10.50	.75	9.0	3352	1200	TXV	
TCA036AKA**	EP*36F****+TXV3+TD1	35200	10.50	.75	9.0	3352	1200	TXV	
TCA036AKA**	EP*36J****+TXV3+TD1	35200	10.50	.75	9.0	3352	1200	TXV	
TCA036AKA**	EP*36B****+TXV3	35200	10.40	.75	9.0	3385	1200	TXV	
TCA036AKA**	EP*36F****+TXV3	35200	10.40	.75	9.0	3385	1200	TXV	
TCA036AKA**	EP*36J****+TXV3	35200	10.40	.75	9.0	3385	1200	TXV	
TCA036AKA**	FCP36****+HTXV3	35200	10.40	.74	9.0	3385	1200	TXV	
TCA036AKA**	EP*36B****+TD1	35200	10.20	.75	9.0	3451	1200	.073	
TCA036AKA**	EP*36F****+TD1	35200	10.20	.75	9.0	3451	1200	.073	
TCA036AKA**	EP*36J****+TD1	35200	10.20	.75	9.0	3451	1200	.073	
TCA036AKA**	EMH36F****	35200	10.00	.79	9.0	3520	1200	.073	
TCA036AKA**	EP*36B****	35200	10.00	.75	9.0	3520	1200	.073	
TCA036AKA**	EP*36F****	35200	10.00	.75	9.0	3520	1200	.073	
TCA036AKA**	EP*36J****	35200	10.00	.75	9.0	3520	1200	.073	
TCA036AKA**	FCP36****	35200	10.00	.73	9.0	3520	1200	.073	
TCA036AKA**	EP*36J****+TXV3+VNK/NTVM050	34800	11.10	.76	9.1	3135	1200	TXV	
TCA036AKA**	FCP42****	34400	10.10	.74	9.2	3406	1200	.073	
TCA036AKA**	EAH5536**+TXV3+TD1	34000	10.50	.74	9.0	3238	1200	TXV	
TCA036AKA**	EAH5536**+TXV	34000	10.30	.74	9.0	3301	1200	TXV	
TCA036AKA**	EAH5536**+TD1	34000	10.10	.74	9.0	3366	1200	.073	
TCA036AKA**	EAH5536**	34000	10.00	.74	9.0	3400	1200	.073	
TCA036AKA**	EE*36B****+TD1	33600	10.00	.75	9.0	3360	1200	.073	
TCA036AKA**	EE*36F****+TD1	33600	10.00	.75	9.0	3360	1200	.073	
TCA036AKA**	EP*036****+TD1	33600	10.00	.75	9.0	3360	1200	.073	
TCA042AKA**	EX*48N****+VNK/NTVM125	42500	11.60	.72	10.0	3664	1400	TXV	
TCA042AKA**	EP*48N****+TXV4+VNK/NTVM100	42500	11.50	.74	9.9	3696	1400	TXV	
TCA042AKA**	EP*48N****+TXV4+VNK/NTVM125	42500	11.50	.74	9.9	3696	1400	TXV	
TCA042AKA**	EAH5548**+TXV4+TD1	42500	11.00	.74	9.5	3864	1400	TXV	
TCA042AKA**	EP*48J****+TXV4+TD1	42500	11.00	.73	9.5	3864	1400	TXV	
TCA042AKA**	EP*48N****+TXV4+TD1	42500	11.00	.73	9.5	3864	1400	TXV	
TCA042AKA**	EX*48N****+TD1	42500	11.00	.72	9.8	3864	1400	TXV	
TCA042AKA**	EAH5548**+TXV4	42500	10.90	.74	9.5	3899	1400	TXV	
TCA042AKA**	EP*48F****+TXV4+TD1	42500	10.90	.73	9.4	3899	1400	TXV	
TCA042AKA**	EP*48J****+TXV4	42500	10.90	.73	9.5	3899	1400	TXV	
TCA042AKA**	EP*48N****+TXV4	42500	10.90	.73	9.5	3899	1400	TXV	
TCA042AKA**	EP*48F****+TXV4	42500	10.80	.73	9.4	3935	1400	TXV	
TCA042AKA**	EAH5548**+TD1	42500	10.70	.74	9.5	3972	1400	.079	
TCA042AKA**	EP*48J****+TD1	42500	10.70	.73	9.5	3972	1400	.079	
TCA042AKA**	EP*48N****+TD1	42500	10.70	.73	9.5	3972	1400	.079	
TCA042AKA**	EP*48F****+TD1	42500	10.60	.73	9.4	4009	1400	.079	
TCA042AKA**	EAH5548**	42500	10.50	.74	9.5	4048	1400	.079	
TCA042AKA**	EP*48J****	42500	10.50	.73	9.5	4048	1400	.079	
TCA042AKA**	EP*48N****	42500	10.50	.73	9.5	4048	1400	.079	
TCA042AKA**	EMH48F****	42500	10.40	.76	9.4	4087	1400	.079	
TCA042AKA**	EP*48F****	42500	10.40	.73	9.4	4087	1400	.079	
TCA042AKA**	EX*42J****+EV(MV)16J22**	42000	11.40	.71	9.8	3684	1400	TXV	
TCA042AKA**	EX*42J****+VNK/NTVM125	42000	11.30	.72	9.8	3717	1400	TXV	
TCA042AKA**	EP*42J****+TXV4+VNK/NTVM125	42000	11.20	.72	9.8	3750	1225	TXV	
TCA042AKA**	EX*42J****+VNK/NTVM100	42000	10.90	.72	9.5	3853	1400	TXV	
TCA042AKA**	EP*42J****+TXV4+VNK/NTVM100	42000	10.75	.72	9.5	3907	1400	TXV	
TCA042AKA**	EX*42J****+TD1	42000	10.60	.71	9.4	3962	1400	TXV	

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		
TCA042AKA**	EP*42F****+TXV4+TD1	42000	10.50	.71	9.4	4000	1400	TXV
TCA042AKA**	EP*42J****+TXV4+TD1	42000	10.50	.71	9.4	4000	1400	TXV
TCA042AKA**	EX*42J****	42000	10.50	.71	9.4	4000	1400	TXV
TCA042AKA**	FCX48****	42000	10.50	.71	9.4	4000	1400	TXV
TCA042AKA**	EP*42F****+TXV4	42000	10.40	.71	9.4	4038	1225	TXV
TCA042AKA**	EP*42J****+TXV4	42000	10.40	.71	9.4	4038	1225	TXV
TCA042AKA**	FCP42****+HTXV4	42000	10.40	.71	9.2	4038	1400	TXV
TCA042AKA**	EP*42F****+TD1	42000	10.20	.71	9.4	4118	1225	.078
TCA042AKA**	EP*42J****+TD1	42000	10.20	.71	9.4	4118	1225	.078
TCA042AKA**	EMH42F****	42000	10.00	.74	9.4	4200	1225	.078
TCA042AKA**	EP*42F****	42000	10.00	.71	9.4	4200	1225	.078
TCA042AKA**	EP*42J****	42000	10.00	.71	9.4	4200	1225	.078
TCA042AKA**	FCP42****	42000	10.00	.71	9.0	4200	1400	.078
TCA042AKA**	EE*42F****+TD1	39500	10.00	.71	9.0	3950	1225	.078
TCA048AKA**	EP*60J****+TXV4+VNK/NTVM 125	47500	11.20	.77	9.3	4241	1500	TXV
TCA048AKA**	EP*60J****+TXV4+VNK/NTVM 100	47500	11.00	.77	9.9	4318	1500	TXV
TCA048AKA**	EP*60J****+TXV4	47500	10.90	.76	9.3	4358	1500	TXV
TCA048AKA**	EP*60N****+TXV4	47500	10.90	.76	9.3	4358	1500	TXV
TCA048AKA**	EP*60J****+TD1	47500	10.70	.76	9.3	4439	1500	.079
TCA048AKA**	EP*60N****+TD1	47500	10.70	.76	9.3	4439	1500	.079
TCA048AKA**	EP*60J****	47500	10.50	.76	9.3	4524	1500	.079
TCA048AKA**	EP*60N****	47500	10.50	.76	9.3	4524	1500	.079
TCA048AKA**	EX*48N****+EV(MV)20N26****	47000	12.00	.73	10.3	3917	1600	TXV
TCA048AKA**	EX*48N****+VNK/NTVM 125	47000	11.40	.73	9.8	4123	1600	TXV
TCA048AKA**	EX*48N****+TD1	47000	11.10	.73	9.6	4234	1600	TXV
TCA048AKA**	EX*48N****	47000	11.00	.73	9.6	4273	1600	TXV
TCA048AKA**	EP*48J****+TXV4+VNK/NTVM 125	47000	10.80	.76	10.3	4352	1500	TXV
TCA048AKA**	EP*48J****+TXV4+VNK/NTVM 100	47000	10.70	.76	9.3	4393	1500	TXV
TCA048AKA**	EP*48J****+TXV4+TD1	47000	10.50	.75	9.3	4476	1500	TXV
TCA048AKA**	EP*48N****+TXV4+TD1	47000	10.50	.75	9.3	4476	1500	TXV
TCA048AKA**	EP*48J****+TXV4	47000	10.40	.75	9.3	4519	1500	TXV
TCA048AKA**	EP*48N****+TXV4	47000	10.40	.75	9.3	4519	1500	TXV
TCA048AKA**	FCP48****+HTXV4	47000	10.40	.75	9.3	4519	1600	TXV
TCA048AKA**	EP*48J****+TD1	47000	10.20	.75	9.3	4608	1500	.079
TCA048AKA**	EP*48N****+TD1	47000	10.20	.75	9.3	4608	1500	.079
TCA048AKA**	EP*48J****	47000	10.00	.75	9.3	4700	1500	.079
TCA048AKA**	EP*48N****	47000	10.00	.75	9.3	4700	1500	.079
TCA048AKA**	FCP48****	47000	10.00	.76	9.1	4700	1600	.079
TCA048AKA**	EAH5560**+TXV4+TD1	46500	11.00	.74	9.4	4227	1600	TXV
TCA048AKA**	EAH5560**+TXV4	46500	10.90	.74	9.4	4266	1600	TXV
TCA048AKA**	EAH5560**+TD1	46500	10.70	.74	9.4	4346	1600	.079
TCA048AKA**	EAH5560**	46500	10.50	.74	9.4	4429	1600	.079
TCA048AKA**	EP*48F****+TXV4+TD1	46000	10.50	.75	9.3	4381	1200	TXV
TCA048AKA**	EP*48F****+TXV4	46000	10.40	.75	9.3	4423	1200	TXV
TCA048AKA**	EP*48F****+TD1	46000	10.20	.75	9.3	4510	1200	.079
TCA048AKA**	EMH48F****	46000	10.00	.73	9.3	4600	1200	.079
TCA048AKA**	EP*48F****	46000	10.00	.75	9.3	4600	1200	.079
TCA048AKA**	FCX48****	45500	10.80	.73	9.3	4213	1600	TXV
TCA048AKA**	EAH5548**+TXV4+TD1	44500	11.00	.74	9.2	4045	1600	TXV
TCA048AKA**	EAH5548**+TXV4	44500	10.80	.74	9.2	4120	1600	TXV
TCA048AKA**	EAH5548**+TD1	44500	10.60	.74	9.2	4198	1600	.079
TCA048AKA**	EAH5548**	44500	10.40	.74	9.2	4279	1600	.079
TCA048AKA**	EE*48F****+TD1	43000	10.00	.74	9.0	4300	1225	.079
TCA060AKA**	EAH5560**+TXV5+TD1	60000	11.00	.70	9.1	5455	1800	TXV
TCA060AKA**	EX*60N****+EV(MV)20N26****	60000	10.70	.69	9.6	5607	1800	TXV
TCA060AKA**	EX*60N****+VNK/NTVM 125	60000	10.70	.69	9.6	5607	1800	TXV
TCA060AKA**	EAH5560**+TXV5	60000	10.60	.70	9.1	5660	1800	TXV
TCA060AKA**	EX*60N****+TD1	60000	10.60	.69	9.4	5660	1800	TXV
TCA060AKA**	EX*60N****	60000	10.50	.69	9.4	5714	1800	TXV
TCA060AKA**	EAH5560**+TD1	60000	10.40	.70	9.1	5769	1800	.092
TCA060AKA**	EAH5560**	60000	10.20	.70	9.1	5882	1800	.092
TCA060AKA**	FCX60****	59000	10.10	.69	9.2	5842	1800	TXV
TCA060AKA**	EP*60J****+TXV5+TD1	58500	10.50	.69	9.1	5571	1700	TXV
TCA060AKA**	EP*60N****+TXV5+TD1	58500	10.50	.69	9.1	5571	1700	TXV
TCA060AKA**	EP*60J****+TXV5	58500	10.40	.69	9.3	5625	1700	TXV
TCA060AKA**	EP*60N****+TXV5	58500	10.40	.69	9.3	5625	1700	TXV
TCA060AKA**	FCP60****+HTXV5	58500	10.40	.69	9.1	5625	1800	TXV
TCA060AKA**	EP*60J****+TD1	58500	10.20	.69	9.3	5735	1700	.092
TCA060AKA**	EP*60N****+TD1	58500	10.20	.69	9.3	5735	1700	.092
TCA060AKA**	EP*60J****	58500	10.00	.69	9.3	5850	1700	.092
TCA060AKA**	EP*60N****	58500	10.00	.69	9.3	5850	1700	.092
TCA060AKA**	FCP60****	58000	10.00	.69	9.1	5800	1800	.092
TCA060AKA**	EE*60J****+TD1	54500	10.00	.70	9.0	5450	1600	.092

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

<b>MODEL NUMBER</b> * <b>PRODUCT FAMILY</b> * = Brand	<b>AC</b>	<b>0</b>	<b>24</b>	<b>A</b>	<b>K</b>	<b>A</b>	<b>SALES CODE</b> <b>ELECTRICAL</b> K = 208/230-1-60 H = 208/230-3-60
<b>PRODUCT TYPE</b> AC = Air Conditioning CA = Condenser A/C HP = Heat Pump CH = Condenser H/P	<b>NOMINAL SEER RATING</b> 0 = 10 2 = 12 4 = 14						
<b>NOMINAL CAPACITY MBTUH</b> 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, 25' ( 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