



9/12 Model Shown

**Nominal Circuit Capacities:**  
9,000 - 12,000 - 18,000 - 24,000  
30,000 - 36,000 Btuh

**PRODUCT DESCRIPTION**

The CAC Cassette Evaporator is available in three cabinet sizes with six cooling output capacities from 9,000-36,000 Btuh. Key features include a condensate pump with safety switch and a 36" lift \*; electric heat; fresh air inlet and branch duct knockouts; and motorized air vanes (18-36 only). The CAC accepts a 24 Volt thermostat control (thermostat not included).

Due to ongoing product development, all designs and specifications are subject to change without notice.

\* Condensate pump lift measured from the base or bottom of the unit.

**STANDARD FEATURES**

▲ **Capacities/Efficiency** - The CAC Cassette Evaporator produces system SEER's meeting or exceeding 13, when matched with EMI's S1C single zone or S2C dual zone side discharge condensing units or with T2C, T3C, or T4C top discharge multi-zone condensing units. Refer to specifications contained in this document.

▲ **Materials of Construction** - Galvanized steel cabinet with fire-resistant thermal and acoustic foam insulation and light grey high-impact ABS fascia. An EPS drain pan with a tough fire retardant thermoplastic liner.

▲ **Air Systems:**

- Fans are backward curved impeller centrifugal design; dynamically and statically balanced; and mounted on integral mounting rails
- Single Fan models (09-24) designed with fire retardant plastic or aluminum impellers
- Twin Fan models (30-36) designed with fire retardant plastic impellers
- Motors are multispeed, enclosed type with thermal protection and sealed lifetime bearings.
- Permanent, washable filter (user accessible)
- Branch duct knockouts on two sides for remote discharge locations
- Fresh air intake capability on three sides of cabinet (2 on CAC 09-12)
- Four plastic air vanes; motor driven with auto sweep or fixed position stop setting on models 18-36 (models 09-12 equipped with manually adjusted air vanes)

▲ **Coil** - Coil is seamless, rifled copper tubing, arranged in staggered configuration, with enhanced aluminum fins, tested to 600 psig. The tubes are mechanically expanded for secure bonding to fin shoulder.

▲ **Refrigeration Circuit** - Units are equipped with a serviceable fixed orifice expansion device. **(Certified for R-22 refrigerant ONLY)**

▲ **Controls and Components** (factory installed or supplied):

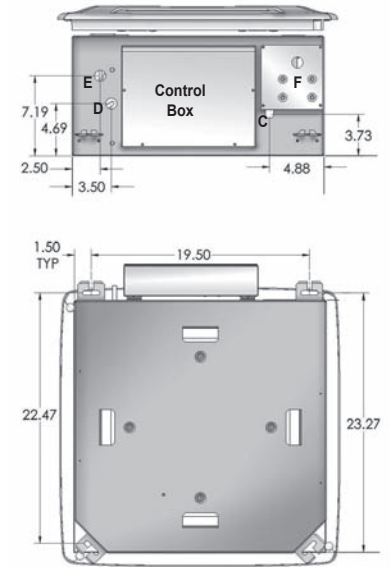
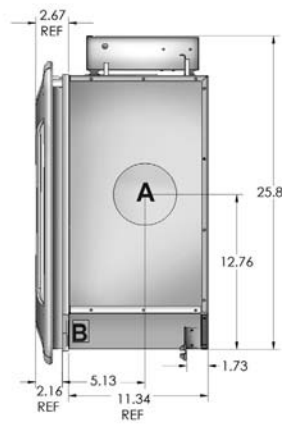
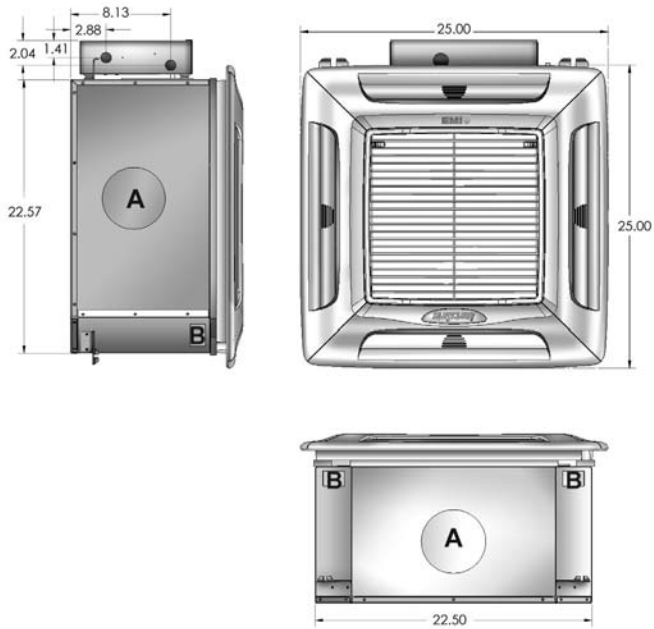
- Connections for 24V remote wall thermostat
- Custom control board featuring anti-short cycle timer; 60 second post purge fan relay; and on board 30 amp electric heat relay
- Relays and connectors to condensing unit
- Condensate Pump with 36" lift – measured from base of unit
- 24V Transformer

▲ **System Options:**

- 24V remote wall thermostat
- Electric Heat (@ 230V)
  - 1.5KW (9,000-12,000 Btuh)
  - 3KW (18,000-24,000 Btuh)
  - 5KW (30,000-36,000 Btuh)

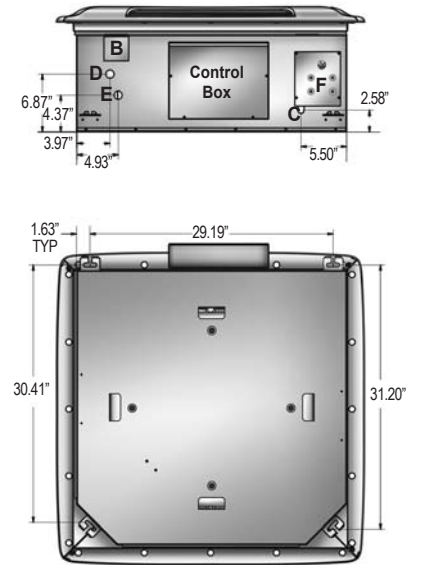
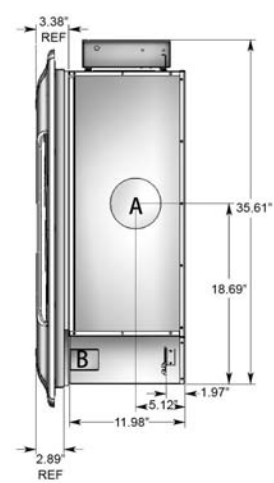
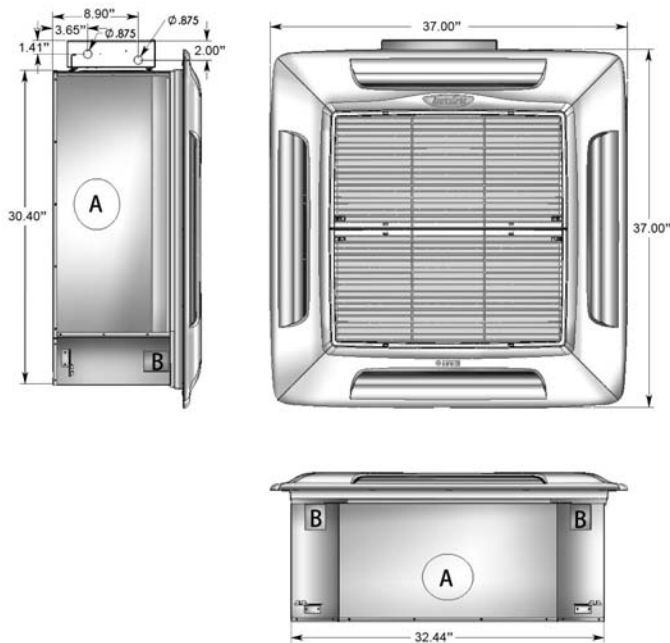
## CAC CASSETTE DIMENSIONS

### SMALL CABINET • CAC 9,000 - 12,000



FEATURE	QTY.	SIZE
A Optional Discharge Knockout	3	3" Ø
B Fresh Air Inlet Knockout	2	1½" x 2½"
C Condensate Discharge	1	½" Ø
D Suction	1	½" Ø
E Liquid	1	¼" Ø
F Condensate Pump Access	1	-

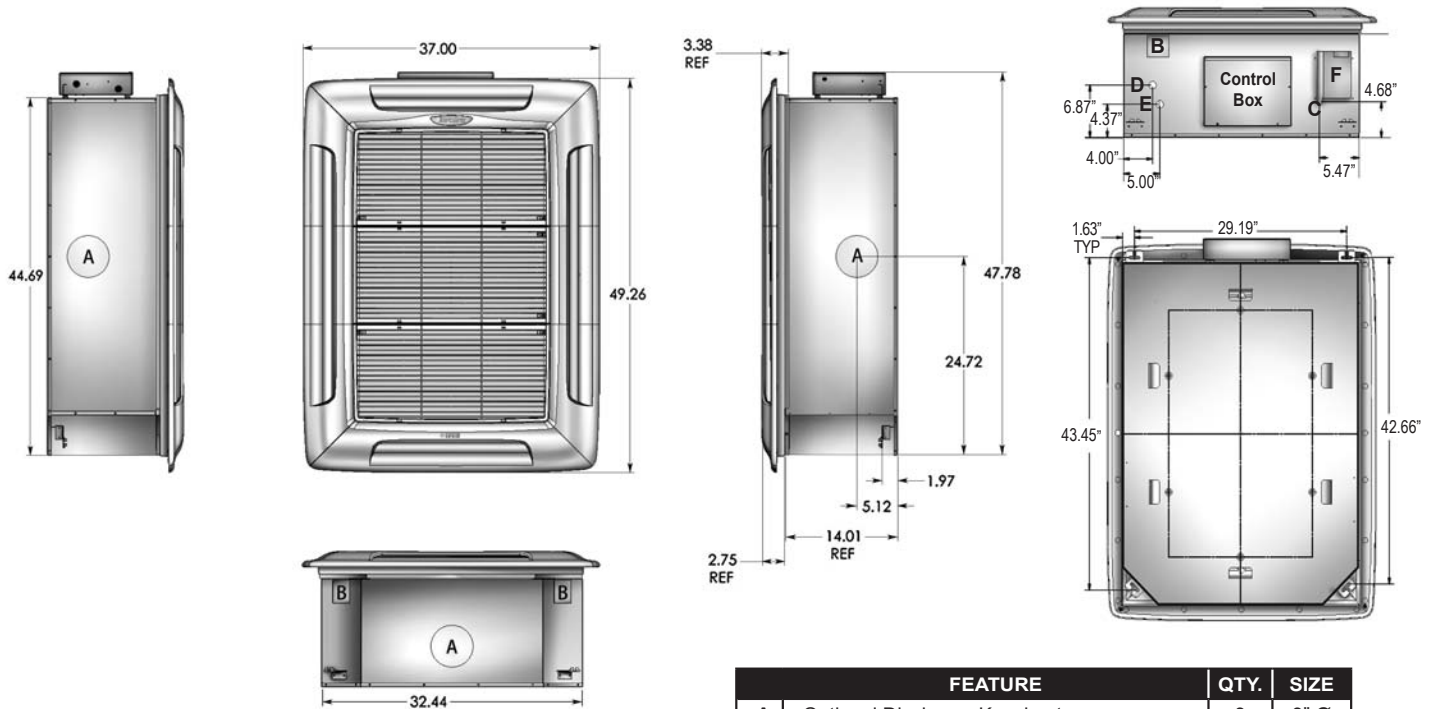
### MEDIUM CABINET • CAC 18,000 - 24,000



FEATURE	QTY.	SIZE
A Optional Discharge Knockout	3	3" Ø
B Fresh Air Inlet Knockout	3	3" x 3"
C Condensate Discharge	1	½" Ø
D Suction	1	¾" Ø
E Liquid	1	⅝" Ø
F Condensate Pump Access	1	-

## CAC CASSETTE DIMENSIONS

### LARGE CABINET • CAC 30,000 - 36,000



FEATURE	QTY.	SIZE
A	3	3" Ø
B	3	3" x 3"
C	1	1/2" Ø
D	1	3/4" Ø
E	1	3/8" Ø
F	1	-

## ELECTRICAL SPECIFICATIONS AND PERFORMANCE DATA

NOTE: Due to EMI's ongoing product development program, all designs and specifications are subject to change without notice.

CAC ELECTRICAL SPECIFICATIONS									
Model #	Fan Motor			Elect Heat		Total Amps	Min Volt	M.C.A.	HACR BRKR
	Volts/HZ/PH	RLA	H.P.	K.W.	Amps				
<b>Small Cabinet 09/12</b>									
CAC09/12	208/230/60/1	0.35	1/10	-	-	0.4	197	0.5	15
CAC09/12	208/230/60/1	0.35	1/10	1.5	6.52	6.9	197	8.6	15
<b>Medium Cabinet 18/24</b>									
CAC18/24	208/230/60/1	0.55	1/8	-	-	0.6	197	0.7	15
CAC18/24	208/230/60/1	0.55	1/8	3	13.04	13.6	197	17.0	20
<b>Large Cabinet 30/36</b>									
CAC30/36	208/230/60/1	0.5, 0.5	1/10, 1/10	-	-	1.0	197	1.2	15
CAC30/36	208/230/60/1	0.5, 0.5	1/10, 1/10	5	21.74	22.7	197	28.3	30

CAC TECHNICAL DATA			
REFRIGERATION	09-12	18-24	30-36
Refrigerant Type	R22		
CONNECTIONS	09-12	18-24	30-36
Suction	1/2"	* 3/4"	3/4"
Liquid	1/4"	3/8"	3/8"
Condensate Drain	1/2" I.D.	1/2" I.D.	1/2" I.D.
Branch Duct	6" Ø	6" Ø	6" Ø
Fresh Air Duct	1 1/4 x 2 1/2"	3" x 3"	3" x 3"
FILTRATION	09-12	18-24	30-36
Type	Washable Mesh		
Quantity	1	2	3
Efficiency	80%		
CONDENSATE PUMP	09-12	18-24	30-36
Maximum Head	36" **		
Min. Flow Rate (GPH)	2.5 GPH		

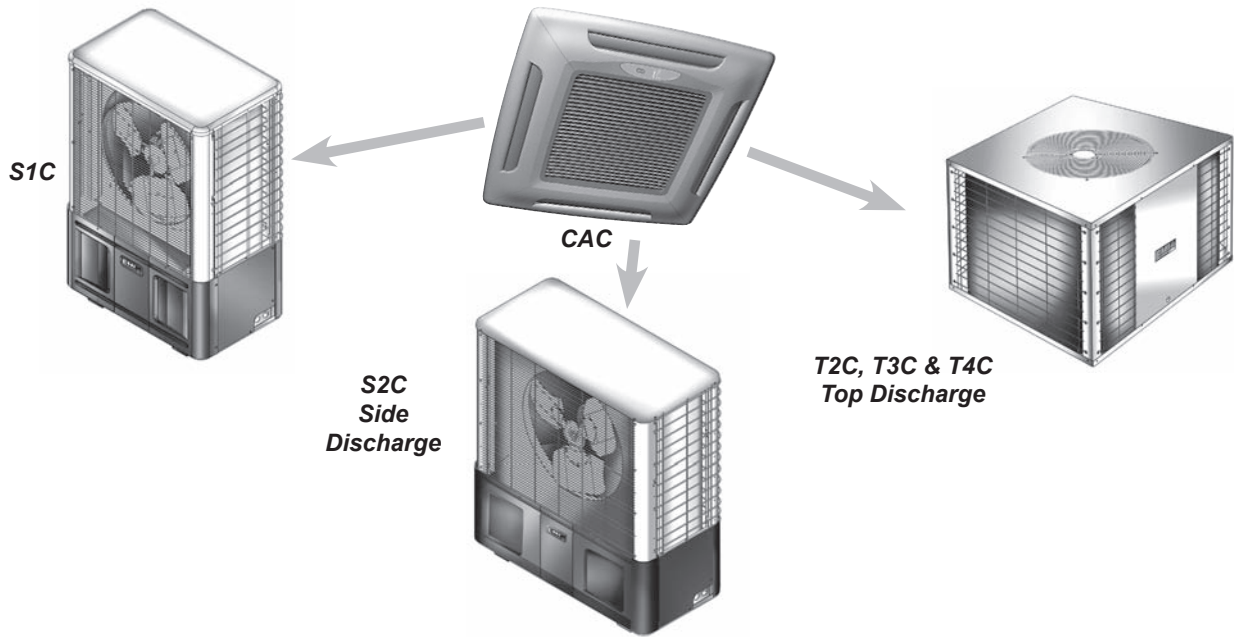
DISCHARGE AIR VOLUME "Dry Coil"			
Model	High Speed CFM	Med. Speed CFM	Low Speed CFM
09-12	380	335	270
18/24	700	620	540
30-36	1,300	1,160	960

INDOOR SOUND LEVELS (dBa)			
Model	High Speed	Medium Speed	Low Speed
09-12	41	39	39
18/24	44	42	39
30-36	51	49	44

SHIPPING WEIGHT	
Model Size	Lbs.
09-12	70
18/24	108
30-36	146

\*Bush down to 5/8" O.D. for 18K system interconnect.  
\*\* Measured from bottom of unit.

## CAC CASSETTE SYSTEM MATCHES



COOLING SYSTEMS WITH CASSETTE UNITS						
Condenser	Cassette	Btuh	SEER	SHR	EER	Ref.
S1CA9	CACA12	9,000	13.0	.79	11.7	R22
S1CA2	CACA12	12,000	13.0	.72	12.2	R22
S1CA8	CACA24	18,000	13.0	.76	12.3	R22
S1CA4	CACA24	23,000	13.0	.67	11.8	R22
S1CA3	CACA36	30,000	13.5	.82	12.5	R22
S1CA6	CACA36	36,000	13.0	.74	12.6	R22

COOLING SYSTEMS WITH S2C SIDE DISCHARGE						
Cassette	Condenser	Btuh	SEER	SHR	EER	Ref.
CACA12	S2CA99	18,000	13.0	.81	11.7	R22
CACA12	S2CA22	23,000	13.0	.74	11.8	R22
CACA12	S2CA92	21,000	13.0	.77	11.8	R22

SYSTEM OPTIONS WITH T2C TOP DISCHARGE						
Cassette(s)	Condenser	Btuh	SEER	SHR	EER	Ref.
CACA24	T2CA88	34,000	13.0	.79	11.8	R22
CACA24	T2CA44	45,200	13.0	.69	11.7	R22
CACA12+ CACA24	T2CA98	27,000	13.0	.82	11.8	R22
CACA24	T2CA84	39,000	13.0	.74	11.7	R22
CACA12+ CACA24	T2CA24	34,600	13.0	.75	11.8	R22

SYSTEM OPTIONS WITH T3C TOP DISCHARGE						
Cassette(s)	Condenser	Btuh	SEER	SHR	EER	Ref.
CACA12 + CACA24	T3CA994	40,600	13.0	.82	11.7	R22
CACA12	T3CA999	27,000	13.0	.87	11.8	R22
CACA12	T3CA222	36,000	13.0	.76	11.8	R22
CACA12 + CACA24	T3CA928	39,000	13.0	.80	11.7	R22
CACA12 + CACA24	T3CA924	43,600	13.0	.79	11.7	R22
CACA12 + CACA24	T3CA228	42,000	13.0	.76	11.7	R22
CACA12	T3CA922	33,000	13.0	.80	11.8	R22
CACA12	T3CA992	30,000	13.0	.83	11.8	R22
CACA12 + CACA24	T3CA998	36,000	13.0	.83	11.8	R22
CACA12 + CACA24	T3CA224	46,600	13.0	.75	11.7	R22

SYSTEM OPTIONS WITH T4C TOP DISCHARGE						
Cassette	Condenser	Btuh	SEER	SHR	EER	Ref.
CACA12	T4CA9999	36,000	13.0	.87	11.8	R22
CACA12	T4CA2222	48,000	13.0	.76	11.8	R22
CACA12	T4CA9222	45,000	13.0	.77	11.8	R22
CACA12	T4CA9992	39,000	13.0	.79	11.8	R22
CACA12	T4CA9922	42,000	13.0	.82	11.8	R22



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