



TWO AND FOUR PIPE FAN COIL W/ELECTRIC HEAT

NOMINAL CAPACITIES: 8,000 - 12,000 - 18,000 20,000 - 33,000 - 36,000 Btuh

PRODUCT DESCRIPTION

The CAF Chilled Water Cassette Evaporator is available in three cabinet sizes with six cooling output capacities from 8,000-36,000 Btuh. Fan speed adjustments are available in all three cabinet sizes to obtain required performance. Key features include a condensate pump with safety switch and an 30" lift; electric heat; fresh air inlet and branch duct knockouts; and motorized air vanes (18-36 only). The CAF accepts a 24 volt thermostat control (thermostat not included) or an infrared microprocessor control can be obtained as a factory installed option. Hot water coils are available on all CAF models (except for 12,000 Btu) in place of electric heat.

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

STANDARD FEATURES

▲ *Materials of Construction* - Galvanized steel chassis with fire-resistant thermal and acoustic foam insulation and pearl grey high-impact polystyrene fascia.

CAF CHILLED WATER CASSETTE EVAPORATOR

P/N# 240003233 Rev. 1.7 [11/07]

Air Systems:

- Fans are backward curved impeller centrifugal design; dynamically and statically balanced; and mounted on integral mounting rails.
- Single Fan models (08-20) designed with fire retardant aluminum/plastic impellers.
- Twin Fan models (33-36) 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 CAF 08-12).
- Four flock coated air vanes; motor driven with auto sweep or fixed position stop setting on models 18-36 (models 08-12 equipped with manually adjusted air vanes).

▲ **Coil** - is seamless, rifled copper tubing, arranged in staggered configuration, with enhanced aluminum fins tested to 460 psig. The tubes are mechanically expanded for secure bonding to the fin shoulder.

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 onboard 30 amp electric heat relay.
- Relays and connectors to condensing unit.
- Electric Heat

1.5kW (8000-12,000 Btuh) 3kW (18,000-20,000 Btuh) 5kW (33,000-36,000 Btuh)

- · Condensate pump with 30" lift.
- 24V Transformer.
- Normally-closed relay and connectors to chilled water supply.

System Options:

- 24V remote wall thermostat.
- Infrared microprocessor control (factory installed only).

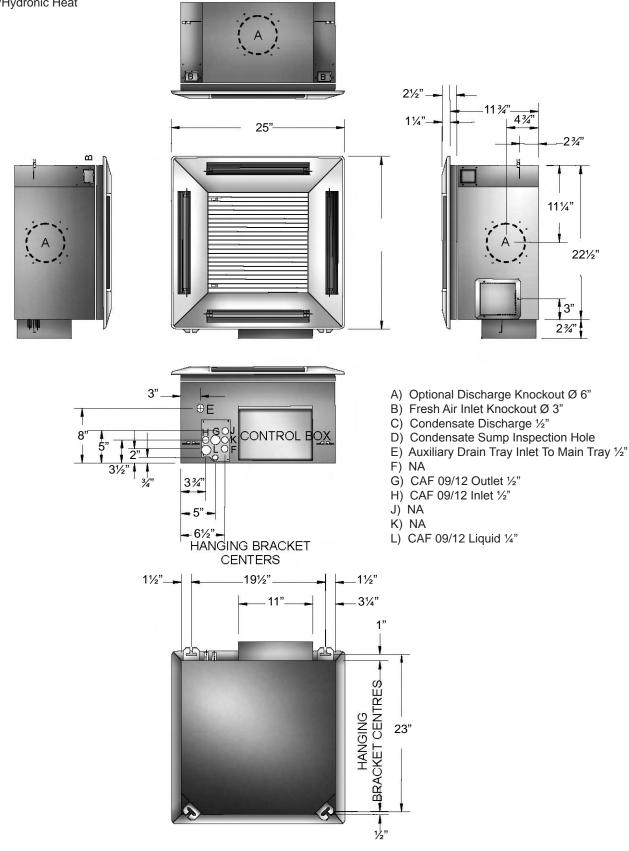
SPECIFICATIONS AND PERFORMANCE

CAF CASSETTE DIMENSIONS

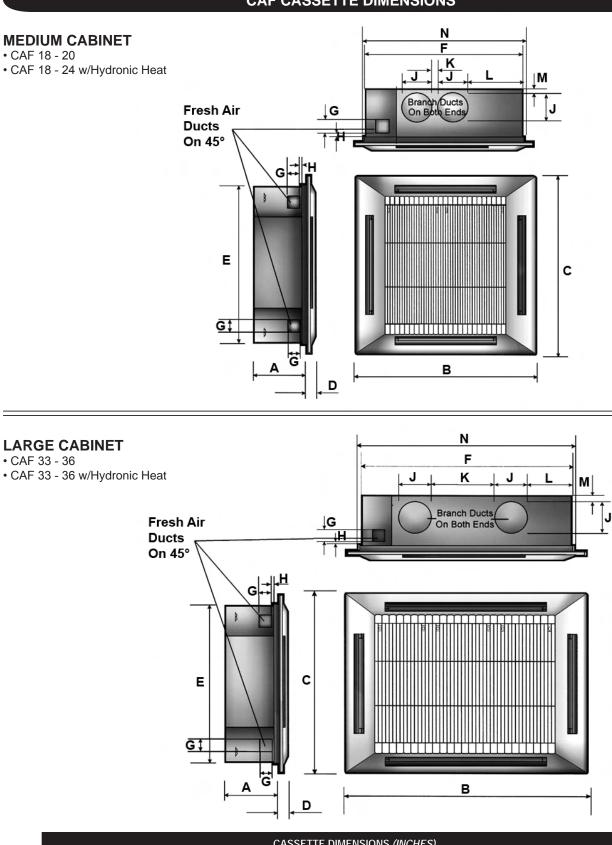
SMALL CABINET



• CAF 08 w/Hydronic Heat



CAF CASSETTE DIMENSIONS



CASSETTE DIMENSIONS (INCHES)													
SIZE	А	В	С	D	E	F	G	Н	J	К	L	М	N
MEDIUM	11	37	37	1¾	32¾	32¾	2¾	1/2	Ø 5	3¼	91⁄2	3⁄4	33¼
LARGE	13	49¼	37	1¾	32¾	45	2¾	1/2	Ø6	13¼	9½	3⁄4	45½

Enviromaster International LLC

EMI@enviromaster.com

ELECTRICAL SPECIFICATIONS AND PERFORMANCE DATA

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

ELECTRICAL SPECIFICATIONS							
STANDARD UNIT DATA		SMALL	MEDIUM	LARGE			
POWER SUPPLY	POWER SUPPLY		230V/1PH/60HZ	230V/1PH/60HZ			
FULL LOAD AMPS	FULL LOAD AMPS A		0.6	0.9			
MIN. CIRCUIT AMPACITY (MCA)	А	0.5	0.75	1.13			
REC. FUSE	А	15	15	15			
WITH OPTIONAL ELECTRIC HEAT	SMALL	MEDIUM	LARGE				
POWER SUPPLY		230V/1PH/60HZ	230V/1PH/60HZ	230V/1PH/60HZ			
ELECTRIC HEAT CAPACITY KW		1.5	3.0	5.0			
HEATER AMPS A		6.52	13.1	21.7			
FULL LOAD AMPS A		7	13.7	22.6			
MIN. CIRCUIT AMPACITY (MCA)	MIN. CIRCUIT AMPACITY (MCA) A		17.1	28.3			
REC. FUSE WITH HEAT	А	15	20	30			
WITH OPTIONAL BOOST TRANSFORM	IER ²	SMALL	MEDIUM	LARGE			
POWER SUPPLY	POWER SUPPLY		115V/1PH/60HZ	115V/1PH/60HZ			
FULL LOAD AMPS	FULL LOAD AMPS A		1.2	1.8			
MIN. CIRCUIT AMPACITY (MCA)	MIN. CIRCUIT AMPACITY (MCA) A		1.5	2.26			
REC. FUSE	А	15	15	15			

(1) STANDARD UNIT FITTED WITH OPTIONAL ELECTRIC HEATING ELEMEN TS. AVAILABLE WITH 230V MODEL UNITS ONLY.

(2) STANDARD UNIT FITTED WITH OPTIONAL BOOST TRANSFORMER FOR CONNECTION TO A 115V ELECTRICAL SUPPLY. ELECTRIC HEAT IS NOT AVAILABLE WITH THIS OPTION.

SOUND LEVELS (dbA)								
Model	High Speed	Med. Speed	Low Speed					
08-12	47	45	40					
18	43	41	39					
20	47	43	41					
33-36	48	47	45					

CAF TECHNICAL DATA							
CABINET DIMENSIONS	SMALL	MEDIUM	LARGE				
HEIGHT	10-3/4"	9-1/2"	11-1/2"				
WIDTH	22-1/2"	32-1/4"	44-1/2"				
DEPTH	22-1/2"	32-1/4"	32-1/4"				
WEIGHT	40 LBS.	64 LBS.	97 LBS.				
FASCIA DIMENSIONS	SMALL	MEDIUM	LARGE				
HEIGHT	2-1/4"	3"	3"				
WIDTH	25"	37"	49-1/4"				
DEPTH	25"	37"	37"				
WEIGHT	5 LBS.	18 LBS.	21 LBS.				
CONNECTIONS	SMALL	MEDIUM	LARGE				
CHILLED WATER INLET	1/2"	3/4"	3/4"				
CHILLED WATER OUTLET	1/2"	3/4"	3/4"				
CONDENSATE	1/2"	1/2"	1/2"				
BRANCH DUCT DIAMETER	5"	5"	6"				
FRESH AIR DUCT DIAMETER	3"	3"	3"				
HOT WATER INLET*	1/2"	1/2"	1/2"				
HOT WATER OUTLET*	1/2"	1/2"	1/2"				
FILTRATION	SMALL	MEDIUM	LARGE				
TYPE	WIRE FRAMED PERIFRAME						
QUANTITY	1	2	3				
ARRESTANCE	80%	80%	80%				
CONDENSATE PUMP	SMALL	MEDIUM	LARGE				
MAXIMUM HEAD	30"	30"	30"				
NOMINAL FLOW RATE (GPM)	0.1	0.1	0.1				

* UNITS FITTED WITH OPTIONAL HOT WATER COIL ONLY

DISCHARGE AIR VOLUME									
Model	High Speed CFM	Med. Speed CFM	Low Speed CFM						
08-12	400	340	300						
18	615	550	490						
20	750	615	550						
33	996	890	784						
36	1123	996	890						

CAF HOT WATER CASSETTE CAPACITIES (Hot Water 180°F Inlet/160° F Outlet)								
Model	AIR ON °F DB/50% RH	TC Btuh	Flow GPM	P.D. FT. H ₂ 0				
	50°	19,800	2.0	10.0				
08	60°	17,100	1.7	8.4				
	70°	14,000	1.4	6.7				
	50°	46,060	4.7	10.9				
18/20	60°	41,930	4.3	9.4				
	70°	37,770	3.8	8.1				
	50°	62,500	6.4	10.8				
33/36	60°	56,940	5.8	9.2				
	70°	51,350	5.2	7.3				

CAF CHILLED WATER CASSETTE CAPACITIES									
COOLING	G CAPACITY	CHILLED WATER INLET/OUTLET °F							
MODEL	AIR ON °F DB/50% RH		40/	50° F		45/55° F			
WODEL		TC Btuh	SC Btuh	FLOW GPM	P.D. FT. H20	TC Btuh	SC Btuh	FLOW GPM	P.D. FT. H20
	72	5460	5460	1.2	6.7	4780	4440	1.1	5.4
08	75	6480	6140	1.4	9.0	5460	5460	1.2	6.4
	80	9550	7170	2.1	17.0	7500	6480	1.7	11.7
	72	7850	7510	1.7	4.3	6480	6140	1.4	2.7
12	75	10580	8190	2.3	6.7	8190	7510	1.8	4.0
	80	14670	9550	3.3	12.0	12280	8530	2.7	8.7
	72	13480	12520	2.7	3.7	10100	10100	2.0	2.2
18	75	17310	13850	3.5	5.8	11670	11640	2.3	3.0
	80	23410	15870	4.7	9.0	17810	13780	3.6	6.0
	72	15050	14570	3.0	4.6	11670	11630	2.3	3.0
20	75	19140	15930	3.8	6.4	13510	13470	2.7	3.7
	80	26650	18390	5.3	11.1	19990	15970	4.0	6.8
	72	26310	21260	5.3	8.5	17610	17570	3.5	5.3
33	75	32070	23500	6.4	13.0	23060	19790	4.6	7.4
	80	41760	26920	8.4	19.2	33130	23300	6.6	14.2
	72	28490	23300	5.7	10.3	19210	19170	3.8	6.0
36	75	34700	25690	6.9	15.1	24910	21700	5.0	8.1
	80	45810	29480	9.2	21.0	35830	25450	7.2	15.7

TC = TOTAL COOLING CAPACITY, SC = SENSIBLE COOLING CAPACITY



