



ELECTRIC FURNACES

Vertical/Horizontal EVAPORATOR COILS

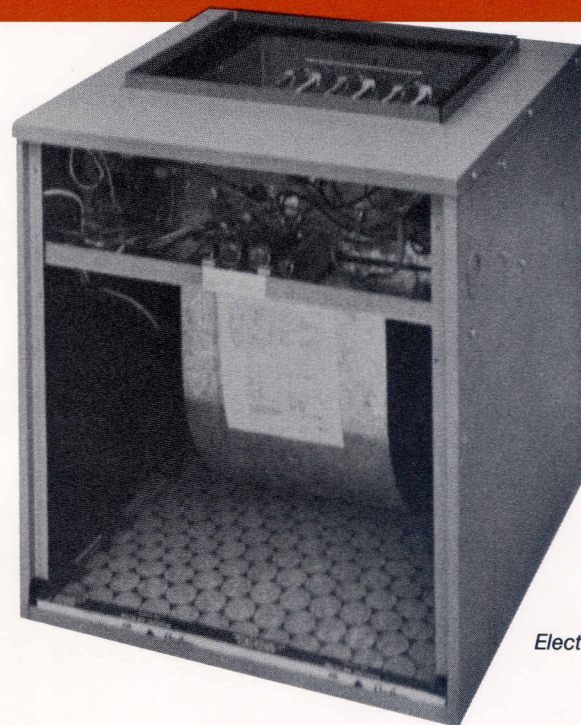
for Traditional Closet and Attic Applications

FIRST CO.

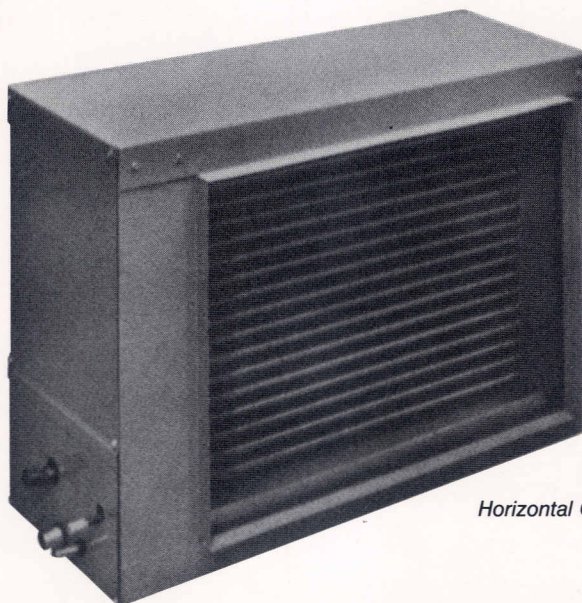
Series EBF
Electric Furnaces
and Series VCB/HCB
Evaporator Coils

**First Electric Furnaces
and Evaporator Coils
deliver a lot more
than just hot and cold air.**

- ☐ Easy to install
- ☐ Fit almost anywhere
- ☐ Easy to maintain

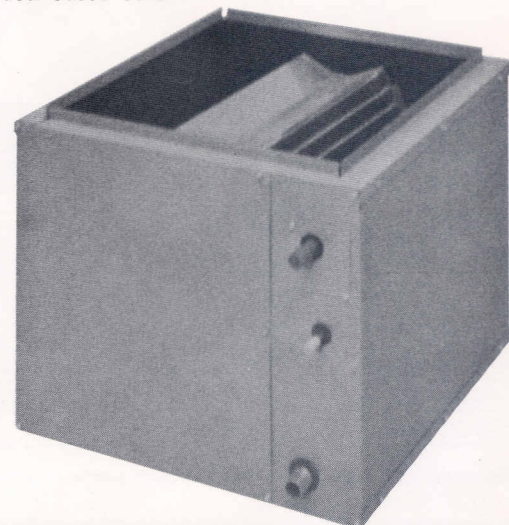


Electric Furnace



Horizontal Cased Coils

Vertical Cased Coils

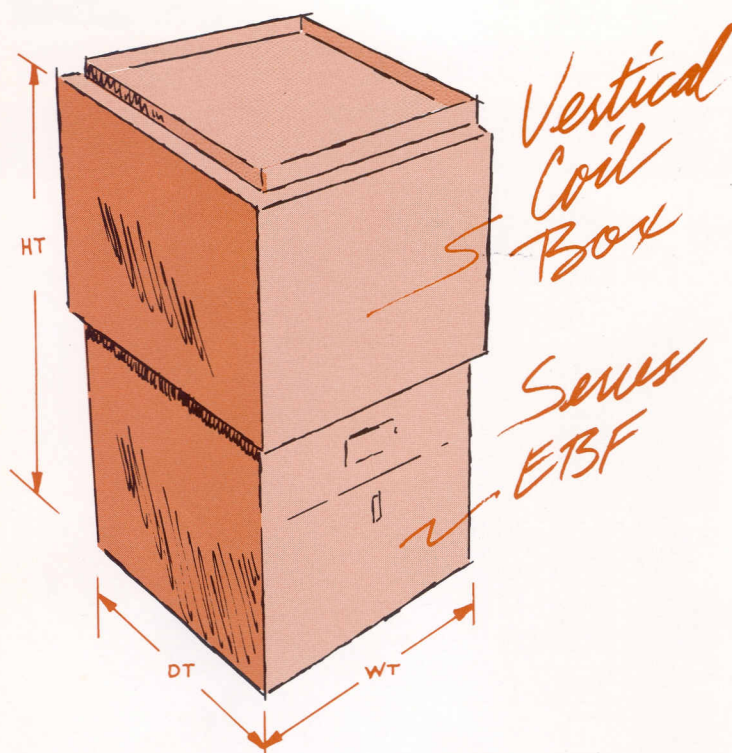


**Horizontal and Vertical Designs
in 2-ton through 5-ton models**

VERTICAL EVAPORATOR COILS

General

NOTE: These features apply to both



VERTICAL COIL BOX
VCB-EBF
SERIES EBF

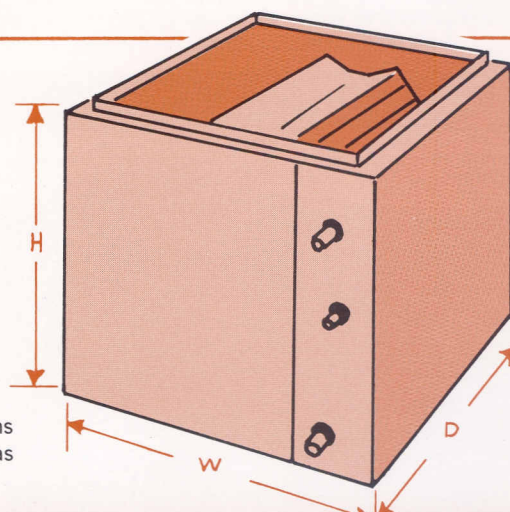
First Evaporator Coils offer first class quality and value at an economy class price.

Cabinets are fabricated of heavy gauge galvanized steel with fully insulated interior surfaces to prevent condensation and minimize heat loss.

Painted Surfaces are finished with a durable baked-on epoxy beige finish to make cabinets highly resistant to corrosion under the most severe conditions.

Coils are fabricated of $\frac{3}{8}$ " O.D. copper tubing mechanically expanded into aluminum fins to assure years of peak efficiency performance ... and maximum heat transfer. All coils are furnished with a capillary tube as standard construction.

Capacity — ratings are based on 80DB/67WB at approximately 45°F suction with an air flow of 400 cfm/ton.



NOTE: Coil connections are same size as "H" series coil.

DIMENSIONS			CASED EVAPORATOR								FURNACE/COIL ⁽¹⁾		
MODEL	NOMINAL TONS	H	W	D	INLET			OUTLET			HT	WT	DT
					IW	ID	C	OW	OD				
A24C-VCB-EBF	2	15	16½	21	16	13¼	¾	16	17¼		39¾	17⅝	21
A30C-VCB-EBF	2.5	16½	20	21	16	13¼	2¾	17⅞	19⅞		41¾	21⅝	22¼
A36C-VCB-EBF	3												
A42C-VCB-EBF	3.5	20	22	21	20	18¾	¾	20⅝	19⅞		48¾	22	28¼
A48C-VCB-EBF	4												
A60C-VCB-EBF	5	22½	25½	22¼	20	18¾	¾	24⅞	19⅞		51¼	25½	28¼

(1) Dimensions for furnace/coil combination are determined by the component with the largest dimension.

HORIZONTAL EVAPORATOR COILS

Features

vertical and horizontal cased coils.

Drain Pan is made of galvanized steel.

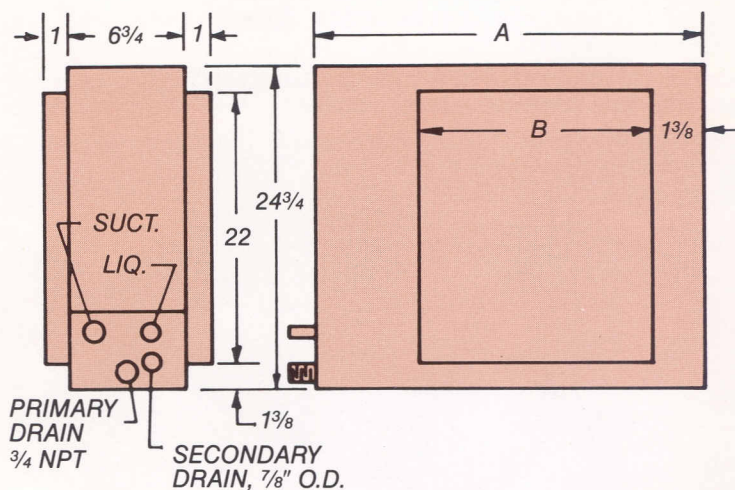
Standard Connections are copper tube for sweat connection. Primary drain connections are $\frac{3}{4}$ " N.P.T.

Electrical Furnace/Evaporator Coil Combination

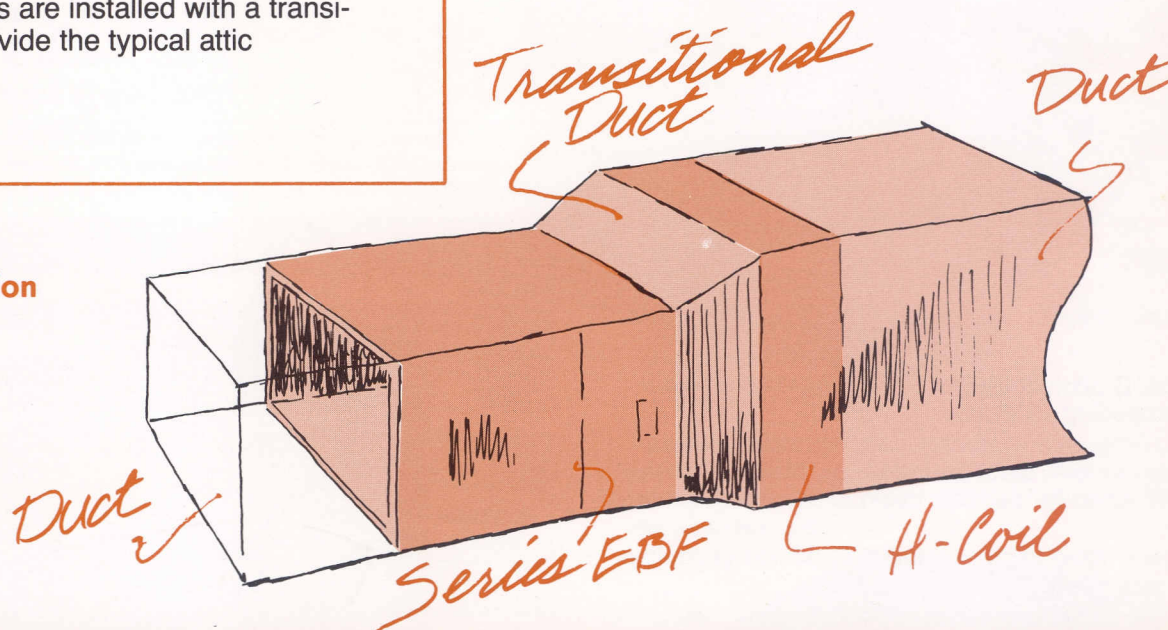
Vertical — Electric furnace outlet matches inlet to VCB vertical evaporator coil for quick and easy installation.

Counter Flow — Evaporator coil top and bottom adapters are field reversible to satisfy counter flow applications.

Horizontal — Electric furnace and "H" series evaporator coils are installed with a transition duct to provide the typical attic application.



Horizontal Attic Application



DIMENSIONS

MODEL	NOMINAL TONS	A	B	SUCTION O.D.	LIQUID O.D.
H24C-D	2			$\frac{5}{8}$	
H30C-D	2.5	$22\frac{1}{2}$	18	$\frac{5}{8}$	$\frac{3}{8}$
H36C-D	3			$\frac{7}{8}$	
H42C-D	3.5			$\frac{7}{8}$	
H48C-D	4	$30\frac{1}{2}$	26	$\frac{7}{8}$	$\frac{1}{2}$
H60C-D	5				

ELECTRIC FURNACE

General Features

Sizes — available in four sizes with heating capacity ranging from 3KW (10,200 BTUH) to 25KW (85,200 BTUH).

Flexibility — extremely short and compact design makes units ideal for locating almost anywhere. Designed for applications in an upflow, downflow, or horizontal position.

Cabinet constructed of heavy gauge galvanized steel with fully insulated interior surfaces.

Painted Surfaces are finished with a durable baked-on epoxy finish to make cabinets highly resistant to corrosion under the most severe conditions.

Electrical — completely factory wired. Control components completely silent, no contactors banging on or off. Heating elements sequenced on and off to prevent power surges. Heating element wires of top quality nickel-chromium. To provide an optimum over temperature safety system, all elements furnished with in-line over temperature

thermostats and have in-line fuse links for back-up protection. Branch circuit fusing standard on all models exceeding 48 amps.

Motor/Blowers — dynamically balanced blowers assure smooth, quiet performance. Motors provided with oil tubes for periodic oiling to assure maximum life.

Blowers sized to provide for the addition of cooling coils with capacities up to five tons.

All Electric Furnace models U.L. listed.



All technical specifications subject to change without notice.

ELECTRICAL DATA

FURNACE MODEL	(1) KW	BTUH	TOTAL AMPS.	MIN. CKT. AMPACITY	MAX. FUSE	STAGING 1ST/2ND
2EBF-3	3	10,200	15.7	20	20	N.A.
-5	5	17,000	24.0	30	30	N.A.
-6	6	20,500	28.2	35	35	N.A.
-8	8	27,300	36.5	46	50	N.A.
-10	10	34,100	44.9	56	60	N.A.
-15	15	51,100	65.7	82	90	10/5
3EBF-5	5	17,000	23.4	30	30	N.A.
-6	6	20,500	27.6	35	35	N.A.
-8	8	27,300	35.9	45	45	N.A.
-10	10	34,100	44.3	56	60	N.A.
-15	15	51,100	65.1	82	90	10/5
-20	20	68,200	85.9	108	110	15/5
4EBF-8	8	27,300	37.3	47	50	N.A.
-10	10	34,100	45.7	57	60	N.A.
-15	15	51,100	66.5	83	90	10/5
-20	20	68,200	87.3	109	110	15/5
-25 ⁽²⁾	25	85,200	(L1-L2) 66.5 (L3-L4) 41.7	(L1-L2) 83 (L3-L4) 52	(L1-L2) 90 (L3-L4) 60	15/10
5EBF-10	10	34,100	46.7	59	60	N.A.
-15	15	51,100	67.5	85	90	10/5
-20	20	68,200	88.3	110	110	15/5
-25 ⁽²⁾	25	85,200	(L1-L2) 67.5 (L3-L4) 41.7	(L1-L2) 85 (L3-L4) 52	(L1-L2) 90 (L3-L4) 60	15/10

(1) All units rated at 240V/10 Phase. Transformer modification can be made to convert unit to 208V/10. Derate heaters 25% for 208V operation.

(2) 25KW units require two (2) service circuits as indicated.

DIMENSIONS

MODEL	H	W	D	OW	OD	IW	ID	X	Y
2EBF	24 ³ / ₄	17 ⁷ / ₈	20 ¹ / ₄	15 ⁷ / ₈	13	13 ¹ / ₈	18 ¹ / ₈	6 ¹ / ₂	⁷ / ₈
3EBF	25 ¹ / ₄	21 ¹ / ₈	22 ¹ / ₄	15 ⁷ / ₈	13	17 ¹ / ₈	20 ¹ / ₈	6 ¹ / ₂	2 ⁷ / ₈
4EBF	28 ³ / ₄	21 ¹ / ₈	28 ¹ / ₄	19 ⁷ / ₈	18 ¹ / ₂	17 ¹ / ₈	26 ¹ / ₈	9	⁷ / ₈
5EBF	28 ³ / ₄	21 ¹ / ₈	28 ¹ / ₄	19 ⁷ / ₈	18 ¹ / ₂	17 ¹ / ₈	26 ¹ / ₈	9	⁷ / ₈

BLOWER PERFORMANCE

FURNACE MODEL	MOTOR H.P.	FAN SPEED	CFM VS. STATIC PRESSURE				
			0.1	0.2	0.3	0.4	0.5
2EBF	¹ / ₆	HIGH LOW	830 690	820 685	800 670	780 630	740 550
3EBF	¹ / ₃	HIGH LOW	1370 1165	1320 1130	1260 1090	1200 1040	1120 965
4EBF	¹ / ₂	HIGH MED LOW	1940 1785 1250	1870 1720 1240	1790 1660 1230	1710 1580 1210	1600 1490 1160
5EBF	³ / ₄	HIGH LOW	2230 1640	2175 1615	2120 1585	2060 1550	1990 1515



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