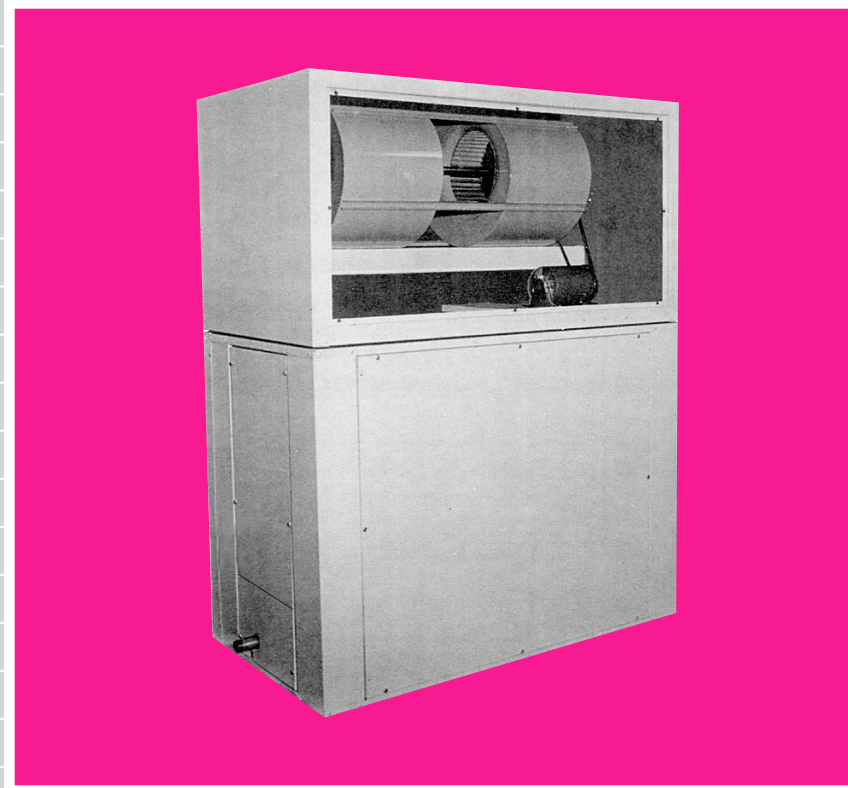


Magic Aire®

BMX SERIES



MODULAR DIRECT EXPANSION BLOWER COIL UNITS

Nominal Sizes 4 thru 20 Ton



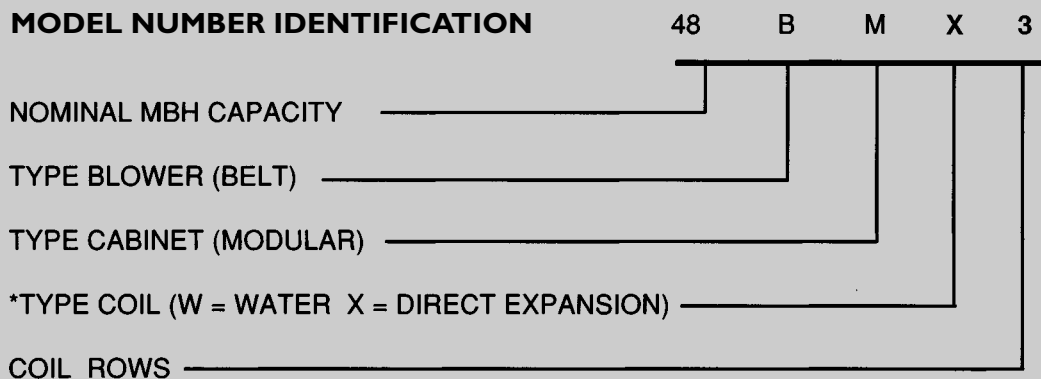
MAGIC AIRE BMX SERIES FAN COILS ARE ETL C
LISTED IN ACCORDANCE WITH UL 1995
AND ARE ASSEMBLED TO ORDER FOR COMPETITIVE DELIVERY.

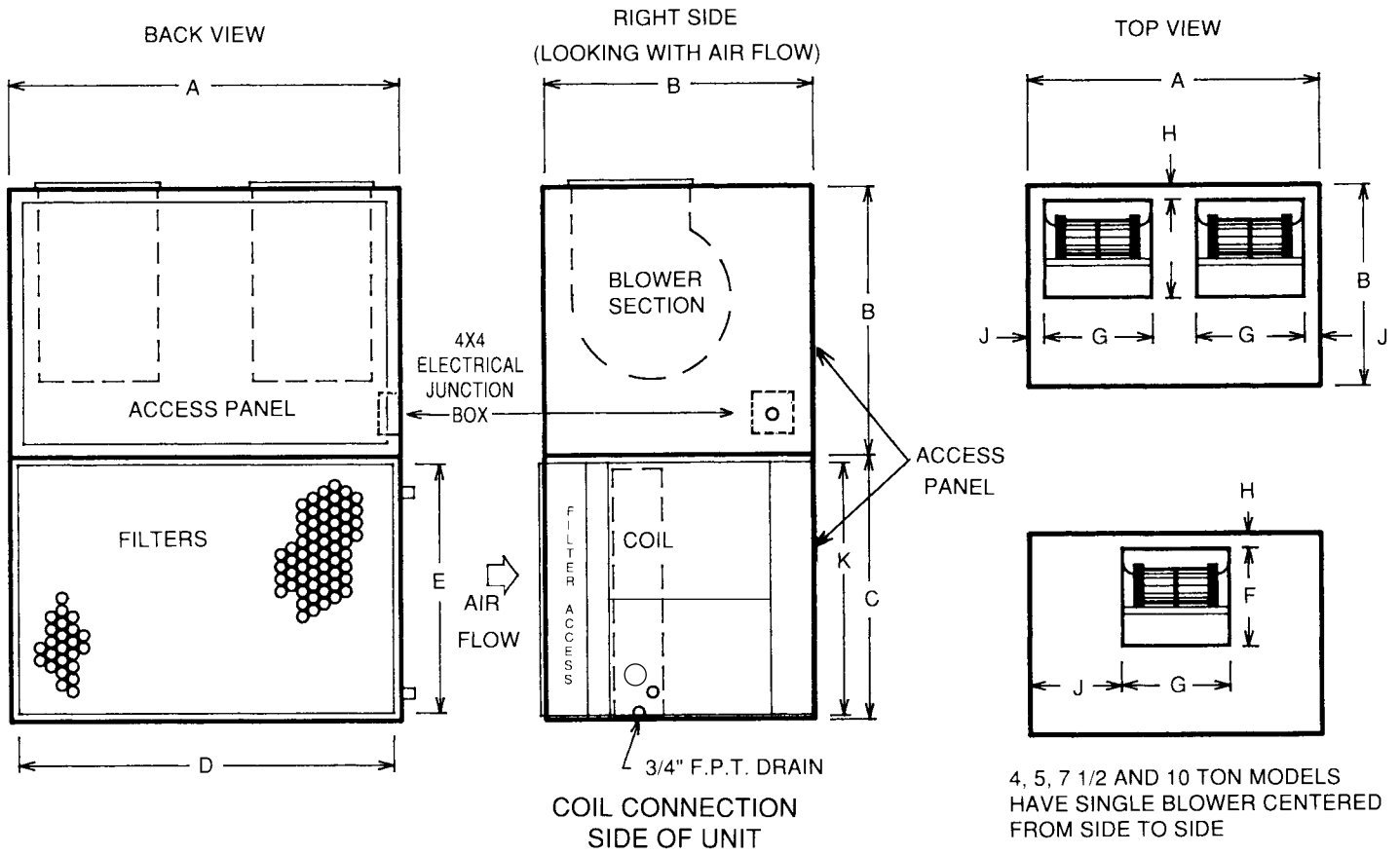
UNITED ELECTRIC COMPANY, L.P.

501 Galveston St. • Wichita Falls, Texas 76301 • 940-397-2100 • Fax 940-397-2166

1. Coils are constructed of copper tube-aluminum fin material.
2. Blower wheels are belt drive DWDI forward curved and factory balanced.
3. Permanently lubricated ball bearing blowers.
4. Standard ETL Approved motors have overload protection.
5. All motor pulleys are variable pitch single groove.
6. Blower pulleys are tapered hub type.
7. Cabinets are fully insulated with 3/4" – 1.5# fiberglass insulation.
8. Standard filters are 2" throwaway with access on both sides of cabinet.
9. Coil connections are located on the right side of cabinet looking at the filters, with drain located on coil connection side only.
10. All units stocked with thermal expansion valve mounted.
11. Cabinets are fabricated of heavy gauge galvanealed steel, specially coated inside and out with Magic Aire beige baked powder enamel coating before assembly.
12. Fan discharge arrangements are achieved by field repositioning of access panels.
13. Stocked Optional Accessories:
 - 2 Row Hot Water Heating Coils (Install Preheat only same hand as cooling coil)
 - MX Series Mixing Box
 - Actuator Kits for Mixing Box (Field install and wire)
 - Discharge Plenum with Four-Way Deflection Grilles
 - Return Air Grille
 - 6" Leg Kit
 - 2" Pleated Filters
 - Heat Pump By-pass Kit
14. Non-Stock Accessories:
 - Stainless Steel Drain Pan
 - Steam Coils
 - Downflow Arrangement
 - 6 Row Direct Expansion Coil

Product Description





DIMENSIONS											
MODEL	A	B	C	D	E	F	G	H	J	K	L
48-60 BM	40.00	26.00	27.50	36.00	25.50	11.88	13.63	1.13	13.13	21.25	-
90-120 BM	50.00	34.00	34.50	48.00	32.00	16.38	19.00	1.13	15.44	27.88	-
180-240 BM	72.00	34.00	47.50	66.00	45.00	16.38	16.38	1.13	14.00	34.00	-

SPECIFICATIONS									
MODEL	NOM CAP	ROWS/FPI		FA SQ. FT	COIL CONNECTION			FILTER 2"	SHIP WT.
		DX	HOT WATER		LIQUID	SUCTION	2 ROW		
48-BMX	4	3/10	2/10	4.16	.500	.875	.875	2-20 x 25	321
60-BMX	5	3/10	2/10	5.00	.500	1.125	1.125	2-20 x 25	344
90-BMX	7.5	3/10	2/10	6.66	.625	1.125	1.125	4-16 x 25	571
120-BMX	10	3/10	2/10	8.88	.625	1.375	1.125	4-16 x 25	588
180-BMX	15	3/10	2/10	13.33	.625	1.375	1.375	2-16 x 20 2-20 x 20 2-16 x 25 2-20 x 25	841
240-BMX	20	3/10	2/10	16.66	2-.625	2-1.625	2-1.125		895

Specifications subject to change without notice due to continuing effort to improve our product.

FAN PERFORMANCE

MODEL	INTER S.P.	CFM	.25" ESP		.50" ESP		.75" ESP		1.00" ESP		1.25" ESP		1.50" ESP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
48 BMX-3	.37	1200	790	.20	940	.30	1050	.35	1160	.45	1260	.55	1345	.65
	.40	1400	820	.30	955	.40	1060	.45	1175	.55	1275	.65	1355	.75
	.44	1600	855	.40	970	.50	1075	.60	1195	.70	1290	.75	1365	.90
	.48	1800	900	.50	1010	.60	1100	.75	1220	.85	1310	.90	1380	1.05
	.53	2000	950	.65	1060	.75	1140	.90	1240	1.00	1340	1.10	1420	1.25
60 BMX-3	.37	1500	820	.35	950	.40	1040	.55	1165	.65	1250	.70	1350	.75
	.40	1750	880	.45	990	.60	1075	.70	1185	.80	1265	.85	1360	.90
	.44	2000	940	.65	1030	.75	1125	.85	1210	.95	1300	1.10	1375	1.20
	.48	2250	1000	.80	1090	.90	1175	1.00	1255	1.10	1335	1.25	1410	1.40
	.53	2500	1080	1.05	1155	1.20	1240	1.35	1310	1.45	1380	1.55	1450	1.65
90 BMX-3	.18	2250	448	.33	563	.46	667	.60	753	.72	831	.86	911	1.00
	.24	2625	487	.42	585	.56	681	.70	761	.85	837	1.01	912	1.15
	.30	3000	525	.54	611	.69	697	.84	771	1.01	845	1.16	917	1.31
	.37	3375	559	.69	636	.84	717	1.00	788	1.17	858	1.33	926	1.50
	.45	3750	597	.87	671	1.04	741	1.21	808	1.39	876	1.59	936	1.80
120 BMX-3	.30	3000	521	.56	607	.78	693	.84	769	1.00	843	1.16	917	1.31
	.39	3500	569	.74	646	.90	722	1.09	786	1.30	852	1.51	928	1.60
	.49	4000	619	1.00	692	1.18	755	1.36	820	1.55	885	1.77	950	1.98
	.61	4500	674	1.39	740	1.55	802	1.77	850	1.98	921	2.42	979	2.64
	.75	5000	733	1.78	791	2.00	849	2.22	907	2.51	967	2.77	1017	3.00
180 BMX-3	.33	5000	514	.88	613	1.07	689	1.50	766	1.82	842	1.93	918	2.26
	.40	5500	546	1.08	629	1.36	711	1.64	782	1.94	854	2.26	923	2.58
	.45	6000	567	1.28	648	1.60	725	1.91	793	2.22	861	2.52	928	2.82
	.52	6500	593	1.58	671	1.89	746	2.22	811	2.53	876	2.84	939	3.22
	.60	7000	625	1.86	705	2.24	766	2.55	833	2.86	893	3.26	955	3.68
240 BMX-3	.38	7000	564	1.60	640	1.96	712	2.27	776	2.58	839	2.90	903	3.29
	.42	7500	587	1.89	660	2.21	728	2.52	790	2.83	850	3.25	910	3.68
	.48	8000	614	2.19	686	2.54	749	2.89	809	3.27	867	3.68	926	4.21
	.54	8500	642	2.54	702	2.90	769	3.36	827	3.86	884	4.36	941	4.86
	.60	9000	672	2.92	733	3.39	791	3.87	846	4.36	902	4.84	959	5.44

MODEL	INTER S.P.	CFM	.25" ESP		.50" ESP		.75" ESP		1.00" ESP		1.25" ESP		1.50" ESP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
48 BMX-3 w/48 MH-2	.42	1200	810	.25	960	.35	1075	.40	1185	.50	1290	.65	1370	.75
	.46	1400	840	.35	975	.45	1085	.50	1200	.60	1305	.75	1390	.85
	.52	1600	875	.45	990	.55	1100	.65	1220	.75	1320	.85	1410	1.00
	.58	1800	920	.55	1030	.65	1125	.80	1245	.90	1340	1.00	1425	1.15
	.65	2000	970	.70	1080	.80	1165	.95	1265	1.05	1375	1.20	1465	1.35
60 BMX-3 w/60 MH-2	.42	1500	840	.40	970	.45	1065	.60	1190	.70	1280	.80	1380	.85
	.46	1750	900	.50	1010	.65	1100	.75	1210	.85	1305	.95	1400	1.00
	.52	2000	960	.70	1040	.80	1150	.85	1235	1.00	1345	1.15	1420	1.25
	.58	2250	1020	.85	1110	.95	1200	1.05	1280	1.15	1380	1.30	1455	1.45
	.65	2500	1080	1.10	1175	1.25	1265	1.35	1335	1.45	1425	1.60	1495	1.70
90 BMX-3 w/90 MH-2	.23	2250	474	.35	583	.48	688	.61	769	.73	850	.89	926	1.04
	.31	2625	519	.46	615	.59	706	.73	776	.89	861	1.05	932	1.29
	.38	3000	549	.58	637	.73	720	.89	793	1.05	865	1.21	939	1.36
	.48	3375	597	.76	675	.92	748	1.08	818	1.25	889	1.41	955	1.61
	.57	3750	632	.95	705	1.12	773	1.30	841	1.48	907	1.70	968	1.91
120 BMX-3 w/120 MH-2	.38	3000	548	.58	634	.74	718	.89	793	1.05	867	1.22	939	1.40
	.50	3500	603	.80	681	.97	752	1.14	821	1.32	889	1.49	955	1.70
	.64	4000	662	1.12	731	1.30	795	1.48	859	1.69	923	1.91	980	2.13
	.79	4500	720	1.49	781	1.71	843	1.92	902	2.15	962	2.41	1016	2.67
	.97	5000	782	1.97	841	2.23	900	2.50	952	2.76	1011	3.00	1059	3.27
180 BMX-3 w/180 MH-2	.44	5000	556	1.00	644	1.25	724	1.50	800	1.79	876	2.07	946	2.39
	.52	5500	585	1.17	669	1.45	746	1.78	817	2.05	889	2.37	949	2.69
	.60	6000	616	1.49	697	1.79	766	2.10	834	2.40	903	2.70	965	3.05
	.69	6500	651	1.80	724	2.12	789	2.43	855	2.74	920	3.07	980	3.53
	.79	7000	688	2.15	753	2.16	815	2.47	878	2.78	939	3.56	1000	4.00
240 BMX-3 w/240 MH-2	.47	7000	589	1.71	666	2.06	735	2.38	798	2.68	862	3.00	924	3.44
	.53	7500	616	2.04	691	2.37	754	2.69	815	3.00	876	3.44	936	3.86
	.59	8000	644	2.36	712	2.70	772	3.03	833	3.45	893	3.87	951	4.39
	.68	8500	677	2.69	742	3.11	800	3.52	858	3.87	917	4.54	976	5.16
	.76	9000	711	3.22	768	3.71	825	4.19	881	4.68	938	5.21	993	5.85



DIRECT EXPANSION COOLING CAPACITIES

48-BMX-3

			85 deg F DB / 71 deg F WB				80 deg F DB / 67 deg F WB				75 deg F DB / 63 deg F WB			
SUCT TEMP	PD PSI	CFM	TTL MBH	SENS MBH	LVG AIR		TTL MBH	SENS MBH	LVG AIR		TTL MBH	SENS MBH	LVG AIR	
					DB	WB			DB	WB			DB	WB
40	11.90	1200	67.0	40.5	53.6	53.6	56.5	37.4	51.2	51.2	48.5	34.4	48.5	48.4
		1600	76.0	48.0	57.1	56.7	65.0	44.5	54.3	53.8	54.0	40.0	51.7	51.1
		2000	82.0	54.5	59.7	58.9	71.0	50.5	56.6	55.7	59.5	46.0	53.7	52.7
45	8.68	1200	59.0	37.6	56.1	56.1	48.0	33.8	54.0	53.9	38.0	29.4	52.3	52.0
		1600	67.0	44.5	59.1	58.6	55.5	40.5	56.5	55.9	46.0	36.8	53.8	53.1
		2000	73.0	51.0	61.3	60.4	61.0	46.5	58.4	57.4	49.0	41.5	55.8	54.7
50	5.77	1200	49.5	33.8	58.9	58.8	38.5	29.8	57.1	56.9	26.4	24.4	56.2	55.6
		1600	57.0	41.0	61.3	60.7	46.5	37.0	58.6	57.9	31.6	30.2	57.6	56.4
		2000	62.5	47.0	63.2	62.1	49.5	42.0	60.5	59.4	37.5	36.4	58.2	56.7

60-BMX-3

			85 deg F DB / 71 deg F WB				80 deg F DB / 67 deg F WB				75 deg F DB / 63 deg F WB			
SUCT TEMP	PD PSI	CFM	TTL MBH	SENS MBH	LVG AIR		TTL MBH	SENS MBH	LVG AIR		TTL MBH	SENS MBH	LVG AIR	
					DB	WB			DB	WB			DB	WB
40	7.23	1500	88.0	52.5	52.5	52.5	74.0	48.0	50.4	50.4	61.0	43.0	48.5	48.4
		2000	101.0	63.0	55.9	55.5	85.0	57.5	53.4	52.9	70.0	51.5	51.2	50.6
		2500	112.0	71.0	58.5	57.7	95.0	65.0	55.7	54.8	78.0	59.0	53.1	52.1
45	5.03	1500	76.0	48.0	55.5	55.5	63.0	43.0	53.4	53.3	43.5	35.2	53.3	53.0
		2000	88.0	57.5	58.4	57.9	72.0	51.5	56.1	55.5	55.0	44.5	54.3	53.5
		2500	97.0	66.0	60.6	59.6	80.0	59.5	58.0	56.9	64.0	53.0	55.3	54.1
50	3.18	1500	64.0	43.0	58.4	58.2	43.5	35.2	58.3	57.9	31.8	29.6	56.7	55.9
		2000	73.0	52.0	61.0	60.4	55.0	45.0	59.2	58.4	38.0	36.6	58.1	56.7
		2500	81.0	59.5	62.9	61.7	65.0	53.5	60.2	59.0	42.0	41.5	59.6	57.4

90-BMX-3

			85 deg F DB / 71 deg F WB				80 deg F DB / 67 deg F WB				75 deg F DB / 63 deg F WB			
SUCT TEMP	PD PSI	CFM	TTL MBH	SENS MBH	LVG AIR		TTL MBH	SENS MBH	LVG AIR		TTL MBH	SENS MBH	LVG AIR	
					DB	WB			DB	WB			DB	WB
40	8.22	2250	124.0	75.0	54.0	53.9	104.0	69.0	51.7	51.5	88.0	62.5	49.3	49.0
		3000	141.0	89.0	57.4	56.8	120.0	82.0	54.7	54.0	99.0	74.0	52.2	51.4
		3750	154.0	101.0	60.0	58.9	131.0	93.0	57.0	55.8	109.0	84.0	54.2	52.9
45	5.76	2250	108.0	69.0	56.7	56.6	90.0	62.5	54.2	53.9	62.5	51.0	54.0	53.5
		3000	123.0	82.0	59.7	58.9	101.0	74.0	57.2	56.3	80.0	65.0	54.8	53.9
		3750	135.0	93.0	61.9	60.6	111.0	85.0	59.1	57.7	92.0	77.0	56.0	54.6
50	3.66	2250	93.0	63.0	59.1	58.8	62.5	51.0	59.0	58.3	45.5	43.0	57.3	56.2
		3000	103.0	74.0	62.1	61.1	80.0	66.0	59.7	58.7	54.0	52.5	58.8	57.0
		3750	113.0	85.0	63.9	62.5	92.0	78.0	60.8	59.4	60.5	59.5	60.3	57.6



DIRECT EXPANSION COOLING CAPACITIES

I 20-BMX-3

			85 deg F DB / 71 deg F WB				80 deg F DB / 67 deg F WB				75 deg F DB / 63 deg F WB			
SUCT TEMP	PD PSI	CFM	TTL MBH	SENS MBH	LVG AIR		TTL MBH	SENS MBH	LVG AIR		TTL MBH	SENS MBH	LVG AIR	
					DB	WB			DB	WB			DB	WB
40	7.63	3000	167.0	101.0	53.7	53.7	140.0	92.0	51.6	51.4	118.0	84.0	49.1	48.8
		4000	191.0	120.0	57.2	56.6	162.0	110.0	54.5	53.8	133.0	99.0	52.1	51.3
		5000	210.0	136.0	59.8	58.6	178.0	125.0	56.8	55.6	147.0	113.0	54.1	52.8
45	5.31	3000	145.0	92.0	56.6	56.4	122.0	84.0	54.0	53.7	84.0	68.0	53.9	53.4
		4000	166.0	110.0	59.5	58.7	136.0	99.0	57.0	56.2	108.0	88.0	54.7	53.8
		5000	183.0	126.0	61.7	60.4	150.0	114.0	58.9	57.6	125.0	104.0	55.8	54.5
50	3.36	3000	125.0	84.0	59.0	58.7	84.0	68.0	58.9	58.3	61.0	57.5	57.2	56.2
		4000	138.0	99.0	62.0	61.0	108.0	88.0	59.6	58.6	72.0	70.0	58.7	57.0
		5000	152.0	115.0	63.8	62.4	125.0	104.0	60.7	59.3	81.0	79.0	60.3	57.6

I 80-BMX-3

			85 deg F DB / 71 deg F WB				80 deg F DB / 67 deg F WB				75 deg F DB / 63 deg F WB			
SUCT TEMP	PD PSI	CFM	TTL MBH	SENS MBH	LVG AIR		TTL MBH	SENS MBH	LVG AIR		TTL MBH	SENS MBH	LVG AIR	
					DB	WB			DB	WB			DB	WB
40	6.14	5000	230.0	148.0	57.6	57.2	198.0	137.0	54.6	54.1	166.0	125.0	51.9	51.3
		6000	246.0	164.0	59.7	59.0	212.0	152.0	56.5	55.7	179.0	139.0	53.5	52.7
		7000	258.0	179.0	61.4	60.3	224.0	167.0	58.0	56.9	189.0	152.0	54.9	53.7
45	2.03	5000	206.0	139.0	59.3	58.9	171.0	126.0	56.6	56.1	138.0	112.0	54.2	53.5
		6000	220.0	154.0	61.2	60.3	184.0	141.0	58.2	57.3	149.0	126.0	55.5	54.6
		7000	232.0	169.0	62.7	61.5	195.0	154.0	59.6	58.3	158.0	139.0	56.6	55.4
50	8.28	5000	176.0	128.0	61.4	60.8	140.0	113.0	59.0	58.3	106.0	99.0	56.7	55.8
		6000	189.0	143.0	63.0	62.0	151.0	128.0	60.3	59.2	120.0	113.0	57.5	56.3
		7000	200.0	157.0	64.2	62.9	160.0	141.0	61.4	60.0	128.0	123.0	58.8	56.9

240-BMX-3

			85 deg F DB / 71 deg F WB				80 deg F DB / 67 deg F WB				75 deg F DB / 63 deg F WB			
SUCT TEMP	PD PSI	CFM	TTL MBH	SENS MBH	LVG AIR		TTL MBH	SENS MBH	LVG AIR		TTL MBH	SENS MBH	LVG AIR	
					DB	WB			DB	WB			DB	WB
40	17.09	7000	296.0	196.0	59.1	58.5	255.0	182.0	56.0	55.3	215.0	167.0	53.0	52.3
		8000	309.0	211.0	60.6	59.7	268.0	197.0	57.3	56.4	226.0	180.0	54.2	53.3
		9000	320.0	225.0	61.9	60.8	277.0	209.0	58.5	57.3	236.0	192.0	55.3	54.0
45	12.99	7000	266.0	184.0	60.7	60.0	222.0	168.0	57.8	57.0	179.0	151.0	55.1	54.3
		8000	278.0	199.0	62.0	61.0	233.0	183.0	58.9	57.9	189.0	164.0	56.1	55.0
		9000	289.0	213.0	63.1	61.9	243.0	196.0	59.9	58.6	197.0	176.0	56.9	55.6
50	8.94	7000	228.0	170.0	62.5	61.7	182.0	153.0	59.8	59.0	142.0	134.0	57.3	56.2
		8000	239.0	185.0	63.6	62.5	192.0	166.0	60.8	59.6	154.0	148.0	57.9	56.5
		9000	249.0	199.0	64.6	63.2	201.0	178.0	61.7	60.2	163.0	160.0	58.6	57.0

HOT WATER HEATING CAPACITIES

2 ROW COILS																	
48 MH-2						60 MH-2						90 MH-2					
GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F
4.0	1.40	1200	72.0	116.1	142.8	6.0	1.80	1500	94.0	118.3	147.8	3.2	0.40	2250	100.0	101.4	116.0
		1600	82.0	107.7	137.9			2000	108.0	109.9	143.2			3000	109.0	93.8	110.4
		2000	90.0	101.7	134.0			2500	118.0	103.9	139.6			3750	116.0	88.6	106.4
8.0	5.30	1200	82.0	123.3	159.0	12.0	6.90	1500	105.0	124.6	162.1	12.8	5.70	2250	146.0	119.9	156.7
		1600	95.0	115.0	155.6			2000	122.0	116.5	159.2			3000	168.0	112.0	153.1
		2000	106.0	109.1	152.9			2500	136.0	110.5	156.7			3750	187.0	106.1	150.1
12.0	11.70	1200	85.0	126.0	165.4	18.0	15.20	1500	108.0	127.0	167.6	20.0	13.50	2250	153.0	123.0	164.3
		1600	100.0	117.9	162.9			2000	127.0	119.0	165.5			3000	179.0	115.2	161.6
		2000	112.0	112.0	160.8			2500	143.0	113.1	163.6			3750	200.0	109.5	159.5
120 MH-2						180 MH-2						240 MH-2					
GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F
12.8	3.40	3000	178.0	115.0	151.5	9.6	1.10	5000	236.0	103.6	130.0	12.8	0.90	7000	328.0	103.3	127.9
		4000	204.0	107.2	147.4			6000	251.0	98.8	126.7			8000	343.0	99.7	125.4
		5000	224.0	101.5	144.2			7000	265.0	94.9	123.9			9000	357.0	96.7	123.2
16.8	5.80	3000	186.0	117.4	157.3	19.2	4.30	5000	283.0	112.2	149.9	22.4	2.60	7000	384.0	110.7	145.0
		4000	215.0	109.6	153.9			6000	307.0	107.3	147.3			8000	408.0	107.1	142.8
		5000	238.0	104.0	151.1			7000	328.0	103.4	145.0			9000	429.0	104.0	141.0
24.0	11.60	3000	194.0	119.9	163.4	30.0	10.20	5000	303.0	116.0	159.3	40.0	7.80	7000	425.0	116.1	158.3
		4000	226.0	112.2	160.7			6000	332.0	111.2	157.3			8000	455.0	112.5	156.8
		5000	252.0	106.6	158.5			7000	358.0	107.2	155.6			9000	481.0	109.4	155.4

4 ROW COILS																	
48 BMW-4						60 BMW-4						90 BMW-4					
GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F
4.0	0.90	1200	105.0	140.8	126.6	5.2	0.80	1500	132.0	141.3	128.4	9.0	1.50	2250	207.0	145.2	133.0
		1600	120.0	129.4	118.9			2000	151.0	130.0	120.8			3000	241.0	134.2	125.5
		2000	131.0	120.8	113.3			2500	166.0	121.3	115.2			3750	266.0	125.5	119.9
10.0	5.50	1200	123.0	154.9	154.8	13.0	4.40	1500	154.0	155.1	155.7	18.0	5.80	2250	232.0	155.4	153.6
		1600	148.0	145.9	149.6			2000	186.0	146.1	150.7			3000	280.0	146.4	148.2
		2000	170.0	138.5	145.3			2500	213.0	138.7	146.5			3750	319.0	138.7	143.8
15.0	12.10	1200	127.0	158.2	162.6	19.5	9.70	1500	159.0	158.3	163.2	22.5	9.00	2250	237.0	157.5	158.4
		1600	156.0	150.0	158.7			2000	195.0	150.2	159.5			3000	289.0	148.9	153.8
		2000	180.0	143.2	155.5			2500	225.0	143.3	156.4			3750	331.0	141.7	149.9
120 BMW-4						180 BMW-4						240 BMW-4					
GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F
12.0	1.70	3000	252.0	137.5	137.2	19.2	2.10	5000	409.0	135.7	136.5	26.4	2.20	7000	574.0	135.7	135.7
		4000	291.0	127.3	130.5			6000	450.0	129.3	132.3			8000	615.0	131.0	132.6
		5000	322.0	119.5	125.5			7000	484.0	123.8	128.7			9000	651.0	126.9	129.8
24.0	6.30	3000	281.0	146.5	156.1	32.0	5.50	5000	447.0	142.7	151.5	44.0	5.60	7000	628.0	142.8	150.9
		4000	335.0	137.5	151.4			6000	499.0	136.8	148.1			8000	680.0	138.5	148.4
		5000	380.0	130.3	147.6			7000	544.0	131.8	145.3			9000	728.0	134.7	146.2
30.0	9.70	3000	287.0	148.4	160.4	40.0	8.40	5000	459.0	144.8	156.5	55.0	8.60	7000	644.0	145.0	156.1
		4000	345.0	139.8	156.5			6000	515.0	139.2	153.7			8000	701.0	140.9	154.0
		5000	394.0	132.8	153.2			7000	564.0	134.4	151.2			9000	753.0	137.2	152.1

CAPACITIES BASED ON 60° EAT AND 180° EWT.

Units not recommended for heating applications when the leaving air exceeds 130 degrees.

STEAM CAPACITIES

NON-STOCK CUSTOM STEAM COILS (Max. 25#)

Capacities based on 70° Entering Air Dry Bulb – 5# Steam Pressure

MODEL	Standard Capacity	MODEL	High Capacity	Nominal CFM
48-BM-SS-1	70000	48-BM-SS-2	131000	1600
60-BM-SS-1	87000	60-BM-SS-2	163000	2000
90-BM-SS-1	124000	90-BM-SS-2	231000	3000
120-BM-SS-1	162000	120-BM-SS-2	301000	4000
180-BM-SS-1	259000	180-BM-SS-2	482000	6000
240-BM-SS-1	354000	240-BM-SS-2	658000	8000

STEAM HEATING CORRECTION FACTORS									
ENTERING AIR TEMP (F)	STEAM PRESSURE PSIG								
	0	2	5	10	15	20	25	40	60
-20	1.46	1.50	1.55	1.63	1.70	1.70	1.80	1.93	2.05
0	1.33	1.37	1.41	1.46	1.55	1.63	1.68	1.79	1.92
20	1.21	1.26	1.31	1.36	1.45	1.50	1.56	1.67	1.79
40	1.09	1.15	1.19	1.25	1.33	1.38	1.44	1.55	1.67
60	.96	1.02	1.07	1.13	1.21	1.24	1.29	1.38	1.56
70	.89	.95	1.00	1.08	1.15	1.19	1.24	1.36	1.48
80	.82	.88	.92	.98	1.06	1.12	1.17	1.30	1.43
100	.71	.75	.81	.88	.95	1.00	1.05	1.18	1.31

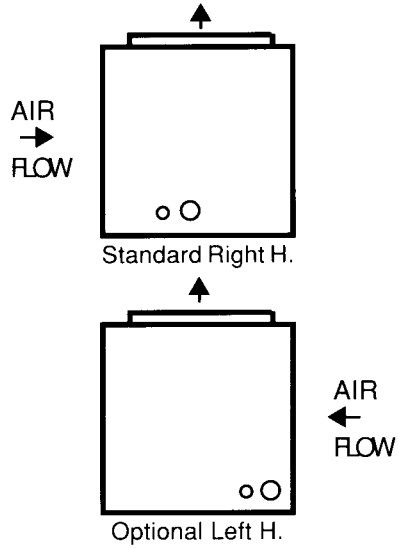
General purpose heating coils are not recommended for duty where entering air is less than 40 degrees. If used in an air unit and leaving air temperature exceeds 130° F, contact the factory for proper motor information and sizing.

HOT WATER HEATING CORRECTION FACTORS									
ENTERING AIR TEMP (F)	ENTERING WATER TEMP (F)								
	100	110	120	130	140	150	160	170	180
50	.419	.500	.579	.665	.742	.838	.917	1.000	1.090
55	.376	.460	.544	.629	.708	.791	.873	.963	1.048
60	.335	.419	.500	.579	.665	.742	.838	.917	1.000
65	.290	.376	.460	.544	.629	.708	.791	.873	.963
70	.251	.335	.419	.500	.579	.665	.742	.838	.917
75	.205	.290	.376	.460	.544	.629	.708	.791	.873
80	.167	.251	.335	.419	.500	.579	.665	.742	.838

When correction factors are used for various entering air and entering water temperatures, multiply the correction factor times the above listed capacity. The correction factors may be used with all Magic Aire published 180° E.V.T. heating capacities.

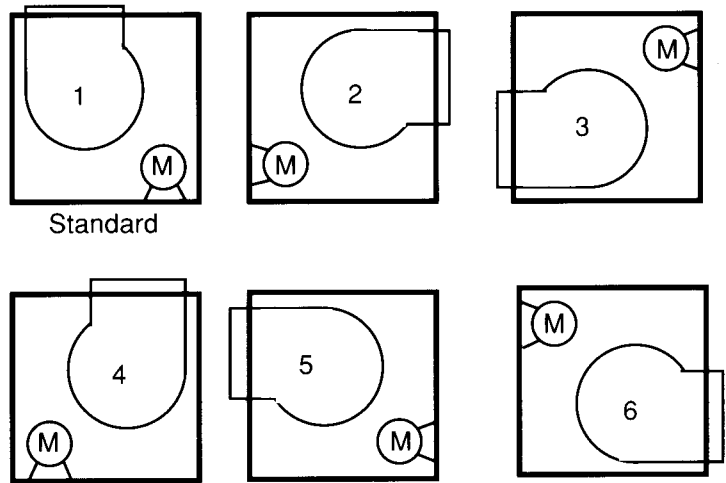
BLOWER & COIL ARRANGEMENTS

COIL HAND ARRANGEMENT

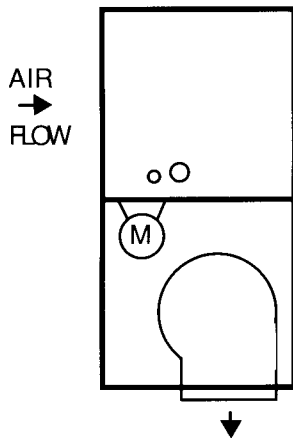


Heating coil available same end or opposite end cooling coil connections.

BLOWER ARRANGEMENTS



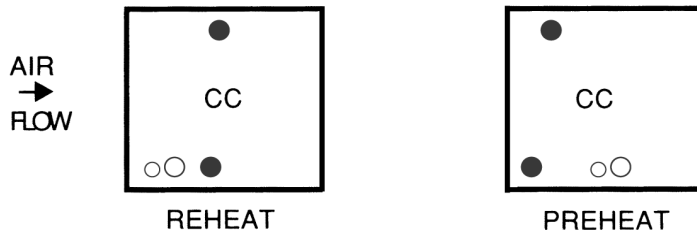
OPT. DOWN FLOW (Max. 400 FPM Coil Velocity) (Factory Conversion)



OPT. HORIZONTAL (Factory Conversion)

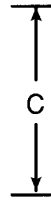
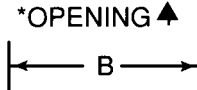
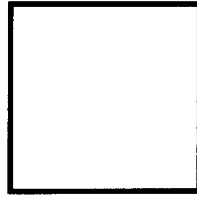
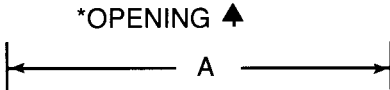
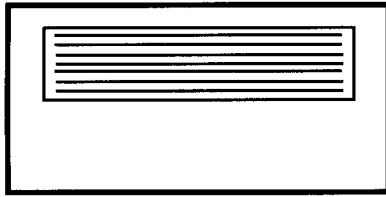


OPTIONAL COIL COMBINATIONS



○ ○ REFRIG. COIL
● HW COIL

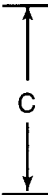
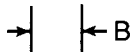
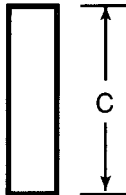
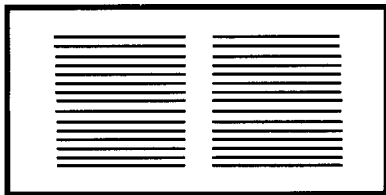
DISCHARGE GRILLE PLENUM (Adjustable four way deflection)



NOT AVAILABLE
WITH ELECTRIC HEAT

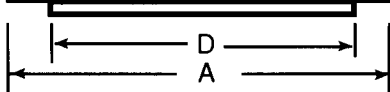
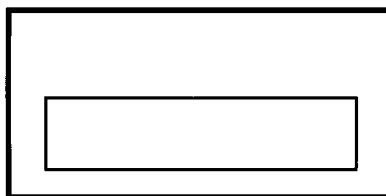
MODEL	A	B	C	WT
48-60 BMGP	40.0	26.0	23.0	75
90-120 BMGP	50.0	34.0	26.5	90
180-240 BMGP	72.0	34.0	36.0	240

RETURN AIR GRILLE (Fabricated of Expanded Metal)

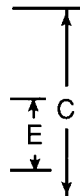
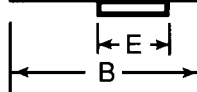
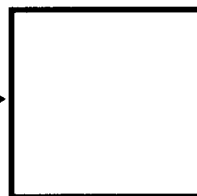


MODEL	A	B	C	WT
48-60 BMRP	36.0	2.0	20.0	9
90-120 BMRP	48.0	2.0	32.0	19
180-240 BMRP	66.0	2.0	45.0	24

MIXING BOX (Low leak dampers)



*OPENING →



MODEL	A	B	C	D	E	F	G	WT
48-60 MX	36.0	16.0	25.5	34.0	8.0	8.0	3.5	75
90-120 MX	48.0	20.0	32.0	46.0	12.0	10.0	3.5	131
180-240 MX	66.0	22.0	45.0	64.0	14.0	15.0	3.5	201

*Unit side connection

Magic Aire®

ENGINEERING SPECIFICATIONS

- Cabinets shall be fabricated of LFQ (min) steel. External parts are to be made with a polyurethane based powder coated A60 galvanealed, while internal parts are to be built from G90 galvanized steel. Units shall pass 500 hour salt spray test as described in ASTM B-117.
- Coils are to be tested at 500 PSI for operation at 400 PSI guage. All water coils have air vents.
- Fan wheel bearings shall be self aligning, sealed cartridge, permanently lubricated ball bearings that provide dependable fan operation for an average life of 200,000 hours (belt drive only)
- Variable pitch motor sheaves.

United Electric Company designs and builds its *Magic Aire* products to comply and perform to one or more of the following standards:

AIR FLOW	General	AMCA 210 ASHRAE 51
	Belt Drive Equipment Direct Drive Equipment	ARI 430 ARI 440
COIL CAPACITY	Hydronic	ARI 410
	Direct Expansion	ARI 210
IN DUCT SOUND RATINGS	Air Moving Equipment	ASHRAE 68 AMCA 330
SAFETY AGENCY LISTINGS	Coils UL Report # Equipment	UL 207 SA 3438 CAN/CSA C22.2 #236 ANSI/UL-1995
	ETL Report #	491893
MATERIAL SPECIFICATIONS	Sheet Metal	ASTM A525 ASTM A527
	Copper Tubing	ASTM B68 ASTM B75 ASTM B88 ASTM B251
	Aluminum	ASTM B209
MAJOR COMPONENTS	Motors	UL/CSA NEMA
	Wire	UL/CSA
	Electrical Filters	UL/CSA UL
	Fiberglass	ASHRAE 52 UL 181 UL 723 (25/50) ASTM E-84
Paint	ASTM B117	

UNITED ELECTRIC COMPANY, L.P.

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