



BVW SERIES



VERTICAL CHILLED WATER BLOWER COIL UNITS

Nominal Sizes 2 thru 10 Ton



**MAGIC AIRE BVW 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

Contractor shall furnish and install high quality air handling units as indicated on plans. Sizes and capacities shall be shown in the Unit Schedule included on the drawings. All units shall be the products of *Magic Aire* with the ETL safety listing.

Cabinets shall be fabricated of LFQ (min) steel. External parts are to be made with 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. Large access panels shall be provided to permit full access to internal components. The structural integrity of the cabinets shall remain unaffected by the removal of any or all access panels.

Insulation shall be 3/4" – 1.5 pound density providing effective acoustical and thermal control, fire safety, and resistance to air erosion.

Coils shall be of the staggered tube type constructed with seamless copper tubes and headers, and deep corrugated aluminum fins with straight edges. Manufacturer shall supply full depth collars, drawn in the fin stock to provide accurate control of fin spacing and completely cover the copper tubes to lengthen coil life. The tubes are to be mechanically expanded into the fins for a permanent primary to secondary surface bond, assuring maximum heat transfer efficiency. The coils are to be tested at 500 PSI for operation at 400 PSI gauge. The coils provided shall be suitable for the application and comply with the required performance as described in the Unit Schedule.

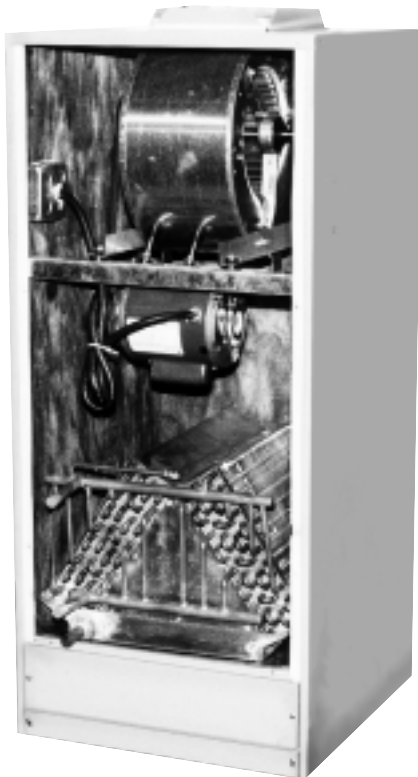
Drainpans shall be galvanized steel 7/8" OD SWT connection.

Fan Wheels shall be double width, double inlet, forward curved, centrifugal type. They shall be statically and dynamically balanced for smooth, quiet operation. The housing shall be constructed of heavy gauge steel with die-formed inlet cones. The bearings shall be self aligning, sealed cartridge, permanently lubricated ball bearings that are rubber mounted and shall provide dependable fan operation for an average life of 200,000 hours. The fan shaft shall be solid cold rolled steel designed such that its operating speed is below its first critical speed.

Motors and Drives shall be belt drive, standard duty, 1725 RPM, open, drip-proof construction. Single phase motors shall be provided with resilient mount and automatic reset thermal protection. Drive shall be of the V-belt type. Variable pitch motor sheaves are to be furnished for ease and accuracy in balancing the system and adjusting the required air volume. The motors are to be bolted to an adjustable platform to facilitate belt tension and alignment. The blower sheave shall be cast iron single groove with split tapered bushing that is keyed to the blower shaft.

Filters are to be 2" disposable type. They shall be center loading with an 85% arrestance efficiency. The filters shall be included in the units as an integral part of the cabinet with easy access provided by the manufacturer.

- Controls (i.e. contactor, starter, or transformer/fan relay) not included in standard product. Only ODP, single and three phase motors on 2-5 Ton units are factory-wired to J-box. All other motors require field wiring to J-box located on side of unit cabinet.
- Chilled water (optional hot water or steam) coil stubouts, electrical and drain connections are standard left hand looking at front of unit. Optional right hand connections available (see price sheets for additional charge).
- 24 to 60 BVW are one-piece units. 90 to 120 BVW are three-piece units and each section is individually cartoned.
- Stocked Optional Accessories:
 - 2 Row Hot Water Heating Coil – Specify preheat (std) or reheat (opt price add) for 2-5 Ton units
 - Discharge Plenum (Grilles field supplied and installed)
 - Return Plenum (Grille, if required, field supplied and installed)
 - 2" Pleated Filters
- Non-Stock Options:
 - Special Insulation
 - Steam Coils (See Steam Brochure)
 - Electric Heat



24 BVW with panels removed.

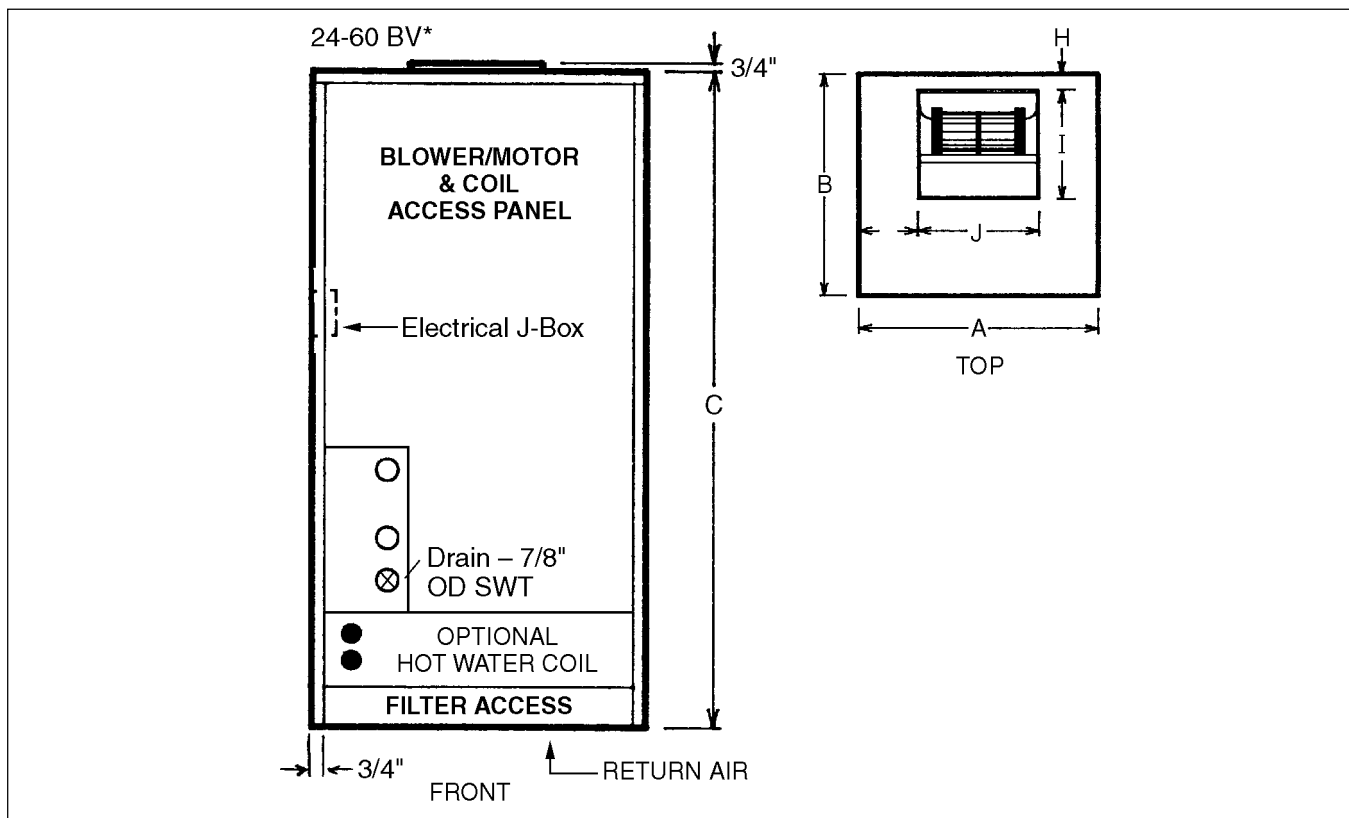


90 BVW with panels removed.

24-60 BV PRODUCT DESCRIPTION

MODEL NUMBER IDENTIFICATION	24	B	V	W
NOMINAL MBH CAPACITY				
TYPE BLOWER (BELT)				
TYPE CABINET (VERTICAL)				
TYPE COIL (W=WATER, X=DIRECT EXPANSION)				

SPECIFICATIONS							
MODEL	NOMINAL RATING IN TONS	COIL FACE AREA	FILTER 2"	"A" COIL CONNECTION	SHP WT	2 ROW CONNECTION	SHP WT
24 BVW	2	3.0	20 X 20	3/4" OD SWT	164	7/8" OD SWT	14
36 BVW	3	3.0	20 X 20	3/4" OD SWT	170	7/8" OD SWT	14
48 BVW	4	4.0	22-1/2 X 22-1/2	7/8" OD SWT	200	7/8" OD SWT	17
60 BVW	5	5.1	2 - 16 X 25	1-1/8" OD SWT	253	1-1/8" OD SWT	21

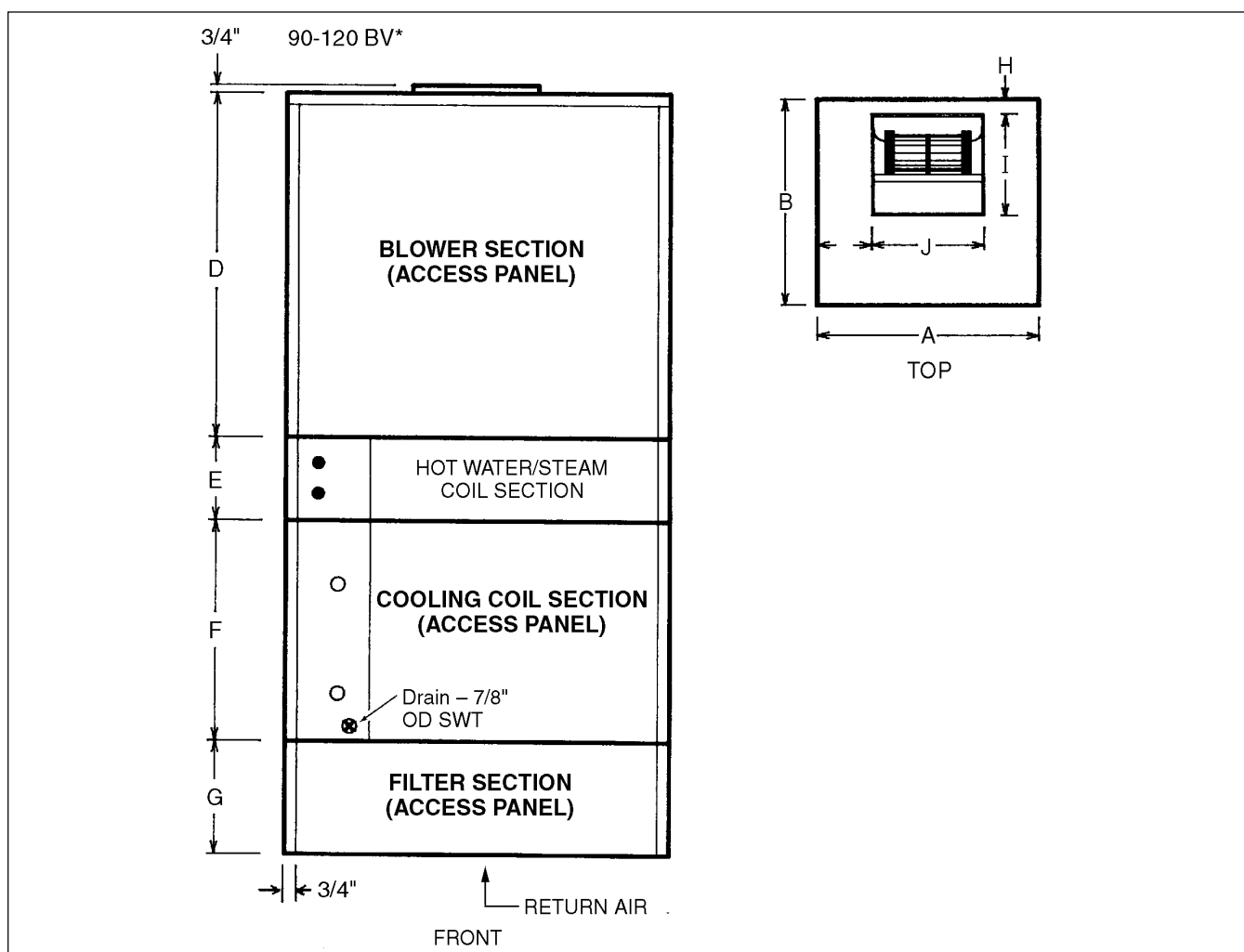


UNIT CABINET DIMENSIONS										
MODEL	UNIT								BLOWER OUTLET	
	A	B	C	D	E	F	G	H	I	J
24 BVW	22	23-1/2	50	X	X	X	X	3	12	8-3/4
36 BVW	22	23-1/2	50	X	X	X	X	3	12	8-3/4
48 BVW	25	23-1/2	56-1/2	X	X	X	X	1-1/2	14	9-1/2
60 BVW	29-1/4	25-1/2	59-5/8	X	X	X	X	1	14	13

90-120 BV PRODUCT DESCRIPTION

MODEL NUMBER IDENTIFICATION	90	B	V	W
NOMINAL MBH CAPACITY				
TYPE BLOWER (BELT)				
TYPE CABINET (VERTICAL)				
TYPE COIL (W=WATER, X=DIRECT EXPANSION)				

SPECIFICATIONS							
MODEL	NOMINAL RATING IN TONS	COIL FACE AREA	FILTER 2"	"A" COIL CONNECTION	SHF WT	2 ROW CONNECTION	SHF WT
90 BVW	7.5	7.3	3 - 16 X 25	1-1/8" OD SWT	364	1-1/8" OD SWT	81
120 BVW	10	9.4	4 - 20 X 25	1-3/8" OD SWT	462	1-1/8" OD SWT	102



UNIT CABINET DIMENSIONS										
MODEL	UNIT								BLOWER OUTLET	
	A	B	C	D	E	F	G	H	I	J
90 BVW	39	27	X	34	9	19-1/2	15-1/2	1	16-3/4	13-1/4
120 BVW	51-1/2	27	X	34	9	19-1/2	20-1/2	1	16-3/4	13-1/4

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
24 BVW	.14	600	679	.08	863	.13	1019	.18	-	-	-	-	-	-
	.18	700	706	.11	885	.15	1028	.22	1157	.28	-	-	-	-
	.23	800	762	.14	927	.20	1056	.24	1174	.30	1288	.37	1401	.44
	.28	900	803	.18	968	.23	1092	.30	1205	.36	1313	.43	1416	.49
	.33	1000	865	.22	1004	.29	1133	.36	1241	.43	1339	.48	1432	.57
36 BVW	.32	900	844	.20	989	.25	1111	.32	1226	.37	1344	.44	1442	.53
	.41	1050	927	.27	1066	.32	1185	.39	1283	.48	1399	.56	1496	.64
	.52	1200	1015	.35	1133	.43	1247	.52	1360	.61	1457	.69	1544	.78
	.64	1350	1091	.46	1217	.56	1318	.67	1423	.77	1520	.87	1600	.94
	.78	1500	1198	.61	1299	.74	1405	.84	1486	.95	1571	1.05	1658	1.15
48 BVW	.47	1200	809	.30	927	.37	1015	.45	1112	.53	1190	.61	1277	.71
	.62	1400	906	.43	999	.50	1092	.61	1169	.69	1257	.81	1329	.91
	.77	1600	979	.58	1071	.68	1154	.77	1236	.91	1318	1.03	1385	1.10
	.95	1800	1066	.76	1154	.90	1236	1.02	1318	1.15	1385	1.28	1452	1.40
	1.14	2000	1169	1.04	1236	1.15	1318	1.30	1396	1.44	-	-	-	-
60 BVW	.45	1500	745	.32	854	.42	958	.50	1045	.62	1145	.73	1228	.85
	.58	1750	816	.45	914	.55	1004	.64	1091	.78	1182	.90	1260	1.06
	.72	2000	879	.59	977	.73	1064	.82	1148	.97	1227	1.13	1300	1.26
	.86	2250	948	.76	1039	.91	1125	1.07	1201	1.21	1273	1.35	1345	1.51
	1.04	2500	1026	1.01	1114	1.22	1193	1.36	-	-	-	-	-	-
90 BVW	.33	2250	624	.52	719	.66	806	.80	886	.96	954	1.10	1023	1.27
	.43	2625	702	.77	783	.93	862	1.09	933	1.28	998	1.42	1061	1.59
	.55	3000	773	1.09	855	1.29	929	1.47	993	1.66	1052	1.83	1109	2.03
	.68	3375	832	1.44	907	1.64	971	1.83	1040	2.06	1101	2.29	1157	2.49
	.81	3750	903	1.90	970	2.12	1033	2.35	1092	2.56	1149	2.79	1207	3.05
120 BVW	.29	3000	660	.89	742	1.06	824	1.26	896	1.43	965	1.63	1035	1.84
	.38	3500	733	1.29	804	1.47	883	1.71	950	1.92	1020	2.18	1078	2.36
	.48	4000	811	1.79	884	2.06	943	2.29	1011	2.55	1076	2.82	1136	3.10
	.60	4500	895	2.48	953	2.72	1017	3.03	-	-	-	-	-	-
	.73	5000	-	-	-	-	-	-	-	-	-	-	-	-

Full-Load Currents in Amperes, Single Phase Alternating-Current Motors*

HORSE POWER	VOLTAGE/PHASE
1/4, 1/3	115/1 Split Phase
1/4, 1/3, 1/2, 3/4, 1, 1 1/2, 2	115/208-230/1
1/4, 1/3, 1/2, 3/4	115/1 2 SPD
1/4, 1/3, 1/2, 3/4	230/1 2 SPD
1/4, 1/3, 1/2, 3/4, 1, 1 1/2	277/1
1/3, 1/2, 3/4, 1, 1 1/2, 2, 3	208-230/460/3

Select appropriate motor horsepower from pages 6-7.

When ordering, specify HP – voltage/phase – CFM@ESP.

Consult List Price Pages for motor installation and options.

For motors not listed, contact factory.

Only ODP, single and three phase motors on 2-5 Ton units are factory-wired to J-box. All others require field wiring to J-box on side of unit cabinet.

Full-Load Currents in Amperes, Single Phase Alternating-Current Motors*

The following values of full-load currents are for motors running at usual speeds and motors with normal torque characteristics. Motors built for especially low speeds or high torques may have higher full-load currents, and multi-speed motors will have full-load current varying with speed, in which case, the nameplate current rating shall be used.

The voltages listed are rated motor voltages. The currents listed shall be permitted for system voltage ranges of 110 to 120 and 220 to 240 volts.

HORSEPOWER	115 volts	200 volts	208 volts	230 volts
1/4	5.8	3.3	3.2	2.9
1/3	7.2	4.1	4.0	3.6
1/2	9.8	5.6	5.4	4.9
3/4	13.8	7.9	7.6	6.9
1	16	9.2	8.8	8
1.5	20	11.5	11	10
2	24	13.8	13.2	12

*Values from NEC Handbook 1999 Edition, actual motor nameplate amps may vary.

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
24 BVW w/24 VH-2	.20	600	716	.10	901	.14	1051	.20	-	-	-	-	-	-
	.25	700	767	.12	927	.18	1082	.23	1200	.27	-	-	-	-
	.31	800	819	.15	979	.22	1112	.28	1221	.33	1339	.40	1442	.45
	.39	900	886	.20	1030	.26	1148	.33	1241	.39	1360	.45	1457	.54
	.46	1000	927	.25	1071	.32	1185	.37	1282	.44	1401	.54	1488	.59
36 BVW w/36 VH-2	.42	900	906	.22	1040	.28	1169	.35	1277	.40	1382	.48	1478	.57
	.57	1050	1015	.31	1138	.38	1246	.47	1362	.57	1467	.63	1545	.71
	.72	1200	1099	.42	1231	.50	1338	.62	1443	.71	1521	.79	1617	.90
	.84	1350	1206	.56	1317	.65	1419	.74	1509	.83	1599	.94	1681	1.04
	1.04	1500	1313	.73	1395	.81	1489	.92	1586	1.03	1667	1.11	1741	1.22
48 BVW w/48 VH-2	.59	1200	855	.34	959	.41	1056	.50	1157	.59	1237	.69	1317	.75
	.77	1400	948	.48	1058	.59	1144	.67	1228	.76	1307	.88	1380	.99
	.96	1600	1051	.65	1136	.76	1226	.88	1300	.97	1379	1.09	1445	1.19
	1.21	1800	1155	.88	1233	1.00	1316	1.12	1381	1.23	1451	1.34	1515	1.46
	1.45	2000	1238	1.16	1324	1.28	1399	1.42	-	-	-	-	-	-
60 BVW w/60 VH-2	.56	1500	774	.36	887	.45	992	.55	1083	.65	1176	.78	1265	.93
	.73	1750	858	.50	959	.61	1055	.73	1136	.84	1221	.99	1297	1.13
	.92	2000	940	.69	1032	.81	1119	.94	1196	1.08	1272	1.24	1347	1.39
	1.13	2250	1016	.91	1099	1.03	1179	1.17	1259	1.36	1332	1.52	-	-
	1.36	2500	1100	1.18	1179	1.33	1254	1.51	-	-	-	-	-	-
90 BVW w/90 VH-2	.39	2250	695	.63	819	.84	925	1.04	1021	1.27	1108	1.47	1189	1.72
	.51	2625	757	.89	876	1.14	968	1.37	1051	1.57	1130	1.81	1209	2.07
	.64	3000	825	1.22	928	1.47	1016	1.71	1093	1.96	1166	2.20	1240	2.48
	.80	3375	886	1.59	984	1.87	1069	2.15	1144	2.45	1214	2.72	1276	2.98
	.96	3750	949	2.03	1037	2.34	1123	2.67	1200	3.01	-	-	-	-
120 BVW w/120 VH-2	.36	3000	650	.85	741	1.06	815	1.22	892	1.41	959	1.62	1025	1.83
	.47	3500	729	1.25	809	1.47	881	1.71	950	1.92	1015	2.15	1070	2.38
	.61	4000	812	1.80	876	2.03	946	2.28	1016	2.58	1073	2.82	1129	3.08
	.74	4500	886	2.42	953	2.72	1012	2.99	-	-	-	-	-	-
	.90	5000	-	-	-	-	-	-	-	-	-	-	-	-

Full-Load Currents in Amperes, Three Phase Alternating-Current Motors*

The following values of full-load currents are typical for motors running at speeds usual for belted motors and motors with normal torque characteristics. Motors built for low speeds (1200 RPM or less) or high torques may require more running current, and multi-speed motors will have full-load current varying with speed. In these cases, the nameplate current rating shall be used.

The voltages listed are rated motor voltages. The currents listed shall be permitted for system voltage ranges of 110 to 120, 220 to 240, 440 to 480, and 550 to 600 volts.

HORSEPOWER	200 volts	208 volts	230 volts	460 volts	575 volts
1/2	2.5	2.4	2.2	1.1	0.9
3/4	3.7	3.5	3.2	1.6	1.3
1	4.8	4.6	4.2	2.1	1.7
1.5	6.9	6.6	6	3	2.4
2	7.8	7.5	6.8	3.4	2.7
3	11	10.6	9.6	4.8	3.9
5	17.5	16.7	15.2	7.6	6.1
7.5	25.3	24.2	22	11	9
10	32.2	30.8	28	14	11

*Values from NEC Handbook 1999 Edition, actual motor nameplate amps may vary.

CHILLED WATER COOLING CAPACITIES

24 BVW

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	2.4	1.10	600 800 1000	21.2 23.0 24.4	15.1 17.7 19.9	61.8 64.6 66.6	60.8 62.9 64.2	59.7 61.3 62.5	18.0 19.7 21.0	13.8 16.3 18.3	58.7 61.2 63.1	57.6 59.4 60.6	57.0 58.4 59.5	14.9 16.6 17.8	12.5 14.7 16.4	55.7 58.0 59.8	54.5 56.0 57.1	54.5 55.9 56.9
	4.8	4.10	600 800 1000	28.4 31.6 34.0	17.8 20.8 23.6	57.6 60.9 63.2	56.8 59.4 61.2	53.9 55.2 56.2	23.6 26.4 28.4	16.2 19.1 21.6	55.1 57.9 60.0	54.2 56.5 58.1	51.9 53.1 53.9	19.3 21.6 23.4	14.5 17.2 19.5	52.6 55.1 57.0	51.8 53.7 55.1	50.1 51.0 51.8
	7.2	8.80	600 800 1000	31.6 36.0 39.0	19.1 22.4 25.6	55.6 59.0 61.4	54.8 57.6 59.5	50.8 52.0 52.9	26.4 30.0 32.8	17.3 20.4 23.2	53.4 56.3 58.5	52.5 54.9 56.6	49.3 50.4 51.1	21.4 24.4 26.6	15.4 18.4 21.0	51.3 53.8 55.6	50.4 52.4 53.8	47.9 48.8 49.4
45	2.4	1.10	600 800 1000	19.4 21.2 22.6	14.4 17.0 19.3	62.8 65.4 67.2	61.7 63.5 64.7	61.2 62.8 63.9	16.3 18.0 19.3	13.2 15.6 17.3	59.7 62.0 64.0	58.5 60.1 61.1	58.6 60.1 61.1	13.5 14.2 15.4	11.8 13.9 15.1	56.8 58.9 61.0	55.4 57.1 57.9	56.3 56.8 57.9
	4.8	4.10	600 800 1000	25.8 28.8 31.0	16.8 19.8 22.4	59.1 62.1 64.2	58.2 60.6 62.2	55.8 57.0 57.9	21.2 23.6 25.6	15.2 18.0 20.4	56.6 59.2 61.1	55.7 57.7 59.1	53.9 54.9 55.7	16.8 19.1 20.8	13.4 16.0 18.3	54.3 56.5 58.1	53.4 54.9 56.0	52.0 53.0 53.7
	7.2	8.80	600 800 1000	29.0 32.8 35.8	18.0 21.2 24.2	57.3 60.4 62.6	56.4 58.9 60.7	53.1 54.1 55.0	23.6 26.8 29.4	16.2 19.3 22.0	55.1 57.7 59.7	54.2 56.3 57.8	51.6 52.5 53.2	18.7 21.2 23.2	14.3 17.1 19.5	53.0 55.2 57.0	52.2 53.9 55.1	50.2 50.9 51.5
48	2.4	1.10	600 800 1000	17.8 19.5 20.8	13.8 16.4 18.3	63.8 66.1 68.1	62.6 64.2 65.2	62.8 64.3 65.5	14.8 16.4 16.6	12.5 14.7 16.3	60.7 63.0 64.9	59.4 60.8 62.0	60.3 61.7 61.9	11.3 12.8 14.0	11.1 12.6 13.7	57.8 60.4 62.3	56.7 57.7 58.4	57.5 58.7 59.7
	4.8	4.00	600 800 1000	23.2 26.0 27.8	15.8 18.9 21.4	60.6 63.2 65.2	59.6 61.7 63.1	57.7 58.8 59.7	18.7 21.0 22.8	14.2 16.9 19.3	58.1 60.5 62.2	57.2 58.9 60.0	55.8 56.8 57.5	14.6 16.7 18.4	12.4 15.0 17.0	55.8 57.7 59.3	54.7 56.0 56.9	54.1 55.0 55.7
	7.2	8.80	600 800 1000	26.0 29.6 32.2	16.9 20.0 22.8	59.0 61.8 63.9	58.1 60.3 61.8	55.3 56.2 56.9	20.8 23.6 25.8	15.1 18.0 20.6	56.8 59.2 61.0	55.9 57.7 59.0	53.8 54.6 55.2	15.9 18.3 20.2	13.0 15.7 18.1	54.9 56.8 58.3	53.9 55.3 56.2	52.4 53.1 53.6

36 BVW

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	4.8	2.70	900 1200 1500	36.6 40.0 43.0	24.4 28.8 32.6	59.9 62.8 64.9	59.1 61.4 62.9	57.3 58.8 59.9	30.8 34.0 36.4	22.4 26.4 30.0	57.0 59.6 61.5	56.1 58.2 59.5	54.8 56.2 57.2	25.2 28.4 30.6	20.2 24.0 27.0	54.3 56.5 58.3	53.3 55.0 56.1	52.6 53.9 54.8
	7.2	5.80	900 1200 1500	42.5 47.5 51.0	26.6 31.6 35.8	57.6 60.7 63.0	56.8 59.4 61.2	53.8 55.2 56.3	35.6 39.5 43.0	24.4 28.8 32.8	55.0 57.8 59.8	54.2 56.5 58.0	51.9 53.1 54.0	29.0 32.6 35.4	21.8 26.0 29.6	52.6 55.0 56.8	51.8 53.7 55.0	50.1 51.1 51.9
	9.6	10.10	900 1200 1500	46.0 52.0 56.5	28.0 33.2 37.6	56.2 59.4 61.8	55.3 58.1 60.0	51.6 52.9 53.9	38.5 43.5 47.5	25.4 30.4 34.6	53.8 56.6 58.7	53.0 55.3 57.0	50.0 51.1 51.9	31.2 35.6 38.5	22.8 27.2 31.2	51.6 54.0 55.8	50.8 52.7 54.1	48.5 49.4 50.1
45	4.8	2.70	900 1200 1500	33.4 36.8 39.5	23.2 27.6 31.4	61.1 63.8 65.7	60.2 62.3 63.6	59.0 60.4 61.5	27.6 30.8 33.4	21.0 25.2 28.6	58.3 60.6 62.4	57.3 59.0 60.2	56.6 57.9 59.0	22.6 25.4 27.8	19.0 22.6 25.4	55.5 57.6 59.3	54.4 55.9 56.8	54.5 55.6 56.6
	7.2	5.80	900 1200 1500	38.5 43.5 46.5	25.2 30.0 34.0	59.1 61.9 64.0	58.2 60.5 62.1	55.8 57.1 58.0	31.8 35.8 38.5	22.8 27.2 31.0	56.5 59.0 60.9	55.7 57.7 59.0	53.9 55.0 55.8	25.4 28.8 31.8	20.2 24.2 27.8	54.2 56.3 57.9	53.3 54.8 55.9	52.1 53.0 53.8
	9.6	10.10	900 1200 1500	42.0 47.5 51.5	26.4 31.6 35.8	57.8 60.7 62.9	56.9 59.4 61.1	53.8 55.0 55.8	34.4 39.0 42.5	23.8 28.6 32.6	55.5 58.0 59.9	54.6 56.7 58.1	52.2 53.2 53.9	27.4 31.2 34.2	21.0 25.2 29.0	53.3 55.5 57.1	52.5 54.1 55.3	50.7 51.5 52.1
48	4.8	2.70	900 1200 1500	30.2 33.6 36.2	22.0 26.4 30.0	62.4 64.7 66.5	61.4 63.1 64.3	60.6 62.0 63.1	24.8 28.0 30.4	20.0 23.8 27.0	59.5 61.6 63.3	58.4 59.9 60.8	58.4 59.7 60.7	20.0 21.4 23.6	17.7 21.0 23.2	56.8 58.8 60.7	55.5 57.1 57.8	56.4 56.9 57.9
	7.2	5.80	900 1200 1500	35.0 39.0 42.0	23.8 28.4 32.4	60.5 63.1 65.0	59.6 61.7 63.1	57.7 58.9 59.8	28.0 31.8 34.8	21.2 25.6 29.4	58.1 60.3 61.9	57.2 58.8 59.9	55.8 56.8 57.7	22.0 25.4 28.2	18.8 22.6 25.8	55.7 57.5 59.1	54.7 55.9 56.7	54.1 55.1 55.8
	9.6	10.10	900 1200 1500	38.0 42.5 46.5	24.8 29.8 34.0	59.4 62.1 64.0	58.6 60.7 62.2	55.9 57.0 57.7	30.4 34.4 37.5	22.2 26.8 30.6	57.2 59.4 61.1	56.3 58.1 59.2	54.3 55.2 55.9	23.4 27.0 30.0	19.4 23.4 27.0	55.1 56.9 58.4	54.1 55.4 56.3	52.9 53.7 54.3

CHILLED WATER COOLING CAPACITIES

48 BVW

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	7.2	3.70	1200	52.0	33.8	59.0	58.1	56.5	43.5	30.8	56.2	55.3	54.1	35.6	27.8	53.6	52.7	51.9
			1600	57.5	39.5	62.0	60.6	58.0	48.0	36.6	58.9	57.5	55.4	40.0	33.0	55.9	54.5	53.1
			2000	61.0	45.0	64.1	62.3	59.1	52.0	41.0	60.9	58.9	56.5	43.5	37.4	57.7	55.7	54.1
	9.6	6.50	1200	57.5	35.8	57.4	56.6	54.0	48.0	32.8	54.8	54.0	52.0	39.0	29.4	52.4	51.6	50.2
			1600	64.0	42.5	60.5	59.2	55.4	54.0	38.5	57.6	56.3	53.3	44.0	34.8	54.9	53.6	51.2
			2000	69.0	48.0	62.8	61.0	56.5	58.0	44.0	59.6	57.9	54.2	48.0	39.5	56.7	54.9	52.0
12.0	10.00	1200	61.0	37.2	56.3	55.5	52.2	51.0	33.8	53.9	53.1	50.5	41.0	30.2	51.7	50.9	48.9	
		1600	69.0	44.0	59.5	58.2	53.6	57.5	40.0	56.7	55.4	51.7	47.0	36.2	54.1	52.8	49.9	
		2000	75.0	50.0	61.9	60.1	54.5	63.0	46.0	58.8	57.1	52.5	51.0	41.0	56.0	54.2	50.6	
45	7.2	3.70	1200	47.5	32.0	60.3	59.4	58.2	39.0	29.2	57.5	56.6	55.9	31.6	26.0	55.0	54.0	53.8
			1600	52.5	38.0	63.0	61.6	59.6	43.5	34.6	60.0	58.5	57.2	36.0	31.0	57.1	55.4	55.0
			2000	56.5	43.0	65.1	63.1	60.7	47.0	39.0	61.8	59.7	58.2	39.0	35.2	58.7	56.4	55.9
	9.6	6.50	1200	52.5	33.8	58.9	58.0	55.9	43.0	30.6	56.4	55.5	54.0	34.2	27.2	54.1	53.2	52.1
			1600	58.5	40.0	61.7	60.4	57.3	48.5	36.8	58.8	57.5	55.1	39.0	32.8	56.1	54.7	53.1
			2000	63.0	46.0	63.8	62.0	58.2	52.5	41.5	60.8	58.9	56.0	42.5	37.2	57.8	55.8	54.0
12.0	9.90	1200	55.5	35.2	57.9	57.1	54.3	43.5	31.6	55.6	54.7	52.6	36.2	28.0	53.4	52.5	51.1	
		1600	63.0	42.0	60.8	59.5	55.5	51.5	38.0	58.1	56.7	53.7	41.0	33.8	55.5	54.2	51.9	
		2000	68.0	47.5	63.0	61.2	56.4	56.5	43.0	60.0	58.2	54.4	45.5	38.5	57.1	55.3	52.6	
48	7.2	3.70	1200	43.0	30.4	61.6	60.7	59.9	34.8	27.4	58.9	57.9	57.7	27.8	24.2	56.4	55.1	55.8
			1600	47.5	36.2	64.1	62.6	61.3	39.0	32.8	61.1	59.4	59.0	32.0	28.8	58.3	56.3	56.9
			2000	51.0	41.0	65.9	63.8	62.3	42.5	37.2	62.8	60.5	59.9	33.0	32.4	60.0	57.5	57.2
	9.6	6.40	1200	47.0	32.0	60.4	59.5	57.9	38.0	28.6	57.9	57.0	55.9	29.8	25.2	55.6	54.6	54.2
			1600	53.0	38.0	62.9	61.5	59.1	43.0	34.2	60.2	58.7	57.0	34.2	30.2	57.5	55.8	55.2
			2000	57.0	43.5	64.9	62.9	59.9	47.0	39.0	61.8	59.8	57.8	38.0	34.6	59.0	56.7	55.9
12.0	9.90	1200	50.0	33.2	59.5	58.6	56.4	40.0	29.6	57.2	56.3	54.7	31.0	25.8	55.1	54.2	53.2	
		1600	56.5	39.5	62.1	60.8	57.5	45.5	35.4	59.5	58.1	55.6	36.0	31.4	56.9	55.4	54.0	
		2000	61.5	43.0	64.1	62.3	58.3	50.0	40.5	61.2	59.3	56.3	39.5	36.0	58.4	56.3	54.7	

60 BVW

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	9.6	4.00	1500	67.0	43.0	58.3	57.5	56.1	56.5	39.5	55.6	54.8	53.8	46.0	35.6	53.1	52.2	51.7
			2000	75.0	51.0	61.4	60.1	57.7	63.0	47.0	58.3	57.0	55.2	52.0	42.0	55.5	54.1	52.9
			2500	80.0	58.0	63.6	61.8	58.8	68.0	53.0	60.4	58.5	56.2	56.5	48.0	57.2	55.3	53.8
	12.0	6.10	1500	73.0	45.0	57.1	56.3	54.2	61.0	41.0	54.6	53.8	52.2	49.5	37.0	52.2	51.4	50.3
			2000	81.0	53.5	60.3	59.0	55.7	68.0	49.0	57.3	56.1	53.5	56.0	44.0	54.7	53.4	51.3
			2500	88.0	60.5	62.6	60.8	56.7	74.0	55.5	59.4	57.7	54.4	61.0	50.0	56.5	54.7	52.2
14.4	8.70	1500	76.0	46.5	56.2	55.4	52.7	64.0	42.5	53.8	53.0	50.9	52.0	38.0	51.6	50.8	49.2	
		2000	87.0	55.5	59.4	58.1	54.1	72.0	50.5	56.6	55.3	52.1	59.0	45.5	54.0	52.7	50.3	
		2500	94.0	62.5	61.8	60.0	55.1	79.0	57.5	58.7	57.0	53.0	64.0	51.5	55.9	54.2	51.0	

45	9.6	4.00	1500	61.5	41.0	59.7	58.9	57.9	51.0	37.4	57.0	56.2	55.6	40.5	33.2	54.6	53.6	53.5
			2000	68.0	48.5	62.5	61.1	59.3	57.0	44.0	59.5	58.1	56.9	46.5	39.5	56.6	55.1	54.7
			2500	73.0	55.0	64.6	62.7	60.4	61.5	50.5	61.3	59.4	57.9	50.5	45.0	58.3	56.2	55.6
	12.0	6.10	1500	66.0	42.5	58.6	57.8	56.1	54.5	38.5	56.1	55.3	54.1	43.5	34.2	53.9	53.0	52.3
			2000	74.0	50.5	61.5	60.2	57.5	61.5	46.0	58.6	57.3	55.3	49.5	41.0	55.9	54.6	53.3
			2500	80.0	58.0	63.6	61.8	58.5	66.0	52.5	60.5	58.7	56.2	54.5	47.0	57.6	55.7	54.1
14.4	8.60	1500	70.0	44.0	57.8	57.0	54.8	57.5	39.5	55.5	54.6	53.0	45.5	35.2	53.3	52.4	51.3	
		2000	79.0	52.5	60.7	59.4	56.0	65.0	47.5	58.0	56.7	54.1	52.0	42.0	55.5	54.1	52.2	
		2500	86.0	59.5	62.9	61.1	57.0	71.0	54.5	59.9	58.1	54.9	57.0	48.5	57.0	55.3	53.0	

48	9.6	4.00	1500	55.5	38.5	61.1	60.2	59.7	45.0	34.8	58.5	57.6	57.4	36.0	30.8	56.0	54.9	55.5
			2000	62.0	46.0	63.6	62.2	61.0	51.0	42.0	60.6	59.1	58.7	41.0	37.0	57.9	56.1	56.6
			2500	67.0	52.5	65.5	63.5	62.0	55.5	48.0	62.3	60.2	59.6	42.5	42.0	59.5	57.3	56.9
	12.0	6.10	1500	60.0	40.5	60.1	59.3	58.0	48.0	36.2	57.7	56.8	56.1	37.5	31.8	55.4	54.4	54.3
			2000	67.0	48.0	62.7	61.3	59.3	54.5	43.5	59.9	58.5	57.1	43.5	38.0	57.3	55.7	55.3
			2500	72.0	55.0	64.7	62.8	60.1	59.5	49.5	61.6	59.7	58.0	48.0	43.5	58.8	56.5	56.1
14.4	8.60	1500	63.0	41.5	59.4	58.6	56.8	50.5	37.2	57.1	56.3	55.1	39.0	32.4	55.0	54.1	53.4	
		2000	71.0	49.5	62.0	60.7	57.9	57.0	44.5	59.4	58.0	56.0	45.0	39.0	56.8	55.3	54.3	
		2500	77.0	56.5	64.0	62.2	58.8	63.0	51.0	61.1	59.2	56.8	50.0	45.0	58.3	56.3	55.0	

CHILLED WATER COOLING CAPACITIES

90 BVW

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	12.0	3.90	2250	94.0	62.0	59.5	58.6	57.8	79.0	57.0	56.6	55.7	55.3	65.0	51.0	54.0	53.0	52.9
			3000	104.0	73.0	62.4	61.0	59.4	88.0	67.0	59.3	57.8	56.7	73.0	61.0	56.2	54.7	54.2
			3750	111.0	83.0	64.6	62.6	60.6	95.0	76.0	61.2	59.2	57.8	79.0	69.0	58.0	55.9	55.3
	18.0	8.30	2250	109.0	67.0	57.2	56.3	54.2	91.0	62.0	54.6	53.8	52.2	74.0	55.0	52.3	51.4	50.3
			3000	123.0	80.0	60.3	59.0	55.7	103.0	73.0	57.4	56.1	53.5	84.0	66.0	54.6	53.3	51.4
			3750	132.0	90.0	62.7	60.8	56.8	111.0	83.0	59.5	57.7	54.4	91.0	75.0	56.5	54.7	52.2
	24.0	14.40	2250	117.0	71.0	55.8	55.0	51.8	98.0	64.0	53.5	52.6	50.2	79.0	57.5	51.3	50.5	48.7
			3000	133.0	84.0	59.0	57.7	53.2	111.0	77.0	56.3	55.0	51.3	91.0	69.0	53.7	52.5	49.6
			3750	145.0	95.0	61.5	59.7	54.2	122.0	87.0	58.5	56.7	52.2	100.0	78.0	55.6	53.9	50.3
	12.0	3.90	2250	86.0	59.0	60.7	59.8	59.5	71.0	53.5	58.0	57.0	56.9	58.0	48.0	55.2	54.2	54.7
			3000	95.0	70.0	63.4	61.9	61.0	80.0	64.0	60.3	58.7	58.4	66.0	57.5	57.3	55.6	56.0
			3750	102.0	79.0	65.4	63.3	62.2	86.0	72.0	62.1	59.9	59.5	72.0	65.0	59.0	56.6	57.0
45	18.0	8.30	2250	100.0	64.0	58.7	57.8	56.1	82.0	58.0	56.2	55.3	54.1	65.0	51.0	54.0	53.0	52.2
			3000	112.0	76.0	61.6	60.1	57.5	92.0	69.0	58.7	57.3	55.3	74.0	61.5	56.0	54.6	53.3
			3750	121.0	86.0	63.7	61.8	58.5	100.0	78.0	60.6	58.7	56.1	81.0	70.0	57.6	55.7	54.1
	24.0	14.40	2250	107.0	67.0	57.5	56.7	53.9	87.0	60.0	55.3	54.4	52.3	69.0	53.0	53.1	52.2	50.8
			3000	121.0	79.0	60.5	59.1	55.2	100.0	72.0	57.8	56.4	53.3	79.0	64.0	55.3	53.9	51.6
			3750	132.0	90.0	62.7	60.8	56.1	109.0	82.0	59.7	57.9	54.1	87.0	73.0	56.9	55.1	52.3
	12.0	3.80	2250	78.0	56.0	62.0	61.0	61.0	64.0	50.5	59.2	58.1	58.7	51.0	44.5	56.6	55.3	56.6
			3000	87.0	67.0	64.4	62.8	62.6	72.0	60.5	61.3	59.6	60.1	59.0	53.0	58.6	56.4	57.8
			3750	94.0	76.0	66.2	64.0	63.7	78.0	69.0	63.0	60.6	61.1	60.0	59.0	60.4	57.7	58.1
48	18.0	8.30	2250	90.0	60.5	60.2	59.3	58.0	72.0	54.0	57.7	56.8	56.1	56.5	47.5	55.5	54.5	54.3
			3000	101.0	72.0	62.8	61.3	59.3	82.0	65.0	60.0	58.5	57.1	65.0	57.0	57.4	55.7	55.3
			3750	109.0	82.0	64.8	62.8	60.1	89.0	74.0	61.7	59.7	58.0	72.0	65.0	58.9	56.6	56.0
	24.0	14.30	2250	96.0	62.5	59.2	58.3	56.0	77.0	56.0	57.0	56.1	54.4	59.0	48.5	55.0	54.0	53.0
			3000	109.0	75.0	61.9	60.5	57.1	88.0	67.0	59.2	57.8	55.3	68.0	59.0	56.8	55.3	53.7
			3750	119.0	85.0	63.9	62.0	57.9	96.0	77.0	61.0	59.1	56.0	76.0	68.0	58.2	56.2	54.4

I20 BVW

ENT WTR	GPM	PD FT.	CFM	85 deg F DB / 71 deg F WB					80 deg F DB / 67 deg F WB					75 deg F DB / 63 deg F WB				
				TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F	TTL MBH	SENS MBH	LVG AIR		DEG F
						DB	WB				DB	WB				DB	WB	
42	18.0	4.40	3000	126.0	82.0	59.7	58.5	56.1	106.0	75.0	56.9	55.7	53.8	86.0	67.0	54.2	53.0	51.7
			4000	141.0	97.0	62.5	60.8	57.7	118.0	89.0	59.3	57.7	55.2	98.0	80.0	56.4	54.7	52.9
			5000	152.0	111.0	64.5	62.4	58.9	128.0	101.0	61.2	59.1	56.3	107.0	92.0	58.0	55.8	53.9
	24.0	7.60	3000	138.0	86.0	58.4	57.2	53.5	115.0	79.0	55.7	54.6	51.6	94.0	70.0	53.2	52.1	49.9
			4000	155.0	102.0	61.3	59.6	55.0	130.0	94.0	58.3	56.7	52.9	107.0	85.0	55.4	53.8	50.9
			5000	169.0	117.0	63.4	61.3	56.1	142.0	107.0	60.1	58.1	53.9	117.0	97.0	57.1	55.1	51.8
	36.0	16.40	3000	150.0	91.0	56.8	55.7	50.4	125.0	83.0	54.4	53.3	49.0	102.0	74.0	52.2	51.1	47.7
			4000	172.0	109.0	59.8	58.2	51.6	144.0	99.0	57.0	55.5	50.0	117.0	89.0	54.4	52.9	48.5
			5000	189.0	124.0	62.0	60.0	52.5	158.0	113.0	59.0	57.0	50.8	129.0	103.0	56.0	54.2	49.2
45	18.0	4.40	3000	115.0	78.0	61.0	59.8	57.9	95.0	70.0	58.2	57.0	55.6	76.0	63.0	55.6	54.3	53.5
			4000	129.0	93.0	63.5	61.8	59.3	107.0	84.0	60.5	58.7	56.9	87.0	75.0	57.5	55.6	54.8
			5000	139.0	106.0	65.4	63.2	60.5	116.0	97.0	62.1	59.9	58.0	96.0	86.0	59.0	56.6	55.7
	24.0	7.60	3000	125.0	82.0	59.8	58.7	55.5	103.0	74.0	57.2	56.0	53.6	82.0	65.0	54.8	53.6	51.8
			4000	141.0	97.0	62.5	60.8	56.8	117.0	88.0	59.5	57.9	54.8	94.0	79.0	56.7	55.0	52.8
			5000	153.0	111.0	64.4	62.3	57.8	127.0	101.0	61.3	59.1	55.6	104.0	91.0	58.2	56.0	53.7
	36.0	16.40	3000	137.0	86.0	58.5	57.3	52.6	112.0	77.0	56.1	55.0	51.2	89.0	68.0	53.9	52.7	49.9
			4000	156.0	103.0	61.2	59.6	53.7	128.0	93.0	58.4	56.8	52.2	102.0	82.0	55.9	54.3	50.7
			5000	172.0	118.0	63.2	61.1	54.6	141.0	107.0	60.2	58.2	52.9	113.0	95.0	57.4	55.4	51.3
48	18.0	4.40	3000	104.0	74.0	62.2	61.0	59.6	84.0	66.0	59.6	58.2	57.4	67.0	58.5	56.9	55.4	55.5
			4000	116.0	88.0	64.6	62.8	61.0	96.0	80.0	61.5	59.6	58.7	77.0	70.0	58.7	56.5	56.7
			5000	126.0	101.0	66.3	63.9	62.1	105.0	91.0	63.1	60.6	59.7	81.0	80.0	60.2	57.6	57.0
	24.0	7.50	3000	113.0	77.0	61.3	60.1	57.4	90.0	69.0	58.7	57.5	55.6	71.0	60.5	56.3	55.0	53.9
			4000	127.0	92.0	63.7	61.9	58.6	103.0	83.0	60.8	59.0	56.6	82.0	73.0	58.0	56.1	54.9
			5000	138.0	105.0	65.5	63.2	59.5	113.0	96.0	62.3	60.1	57.5	92.0	84.0	59.4	56.9	55.7
	36.0	16.30	3000	123.0	81.0	60.1	58.9	54.9	98.0	72.0	57.8	56.6	53.5	75.0	62.5	55.7	54.4	52.2
			4000	140.0	97.0	62.6	60.9	55.8	113.0	87.0	59.8	58.2	54.3	88.0	76.0	57.3	55.6	52.9
			5000	154.0	111.0	64.4	62.2	56.6	124.0	100.0	61.4	59.3	54.9	98.0	88.0	58.6	56.4	53.5

STEAM CAPACITIES

NON-STOCK CUSTOM STEAM COILS 70° Entering Air Dry Bulb – 5# Steam Pressure			
MODEL	NOMINAL CFM	STANDARD CAPACITY	HIGH CAPACITY
24-BVSTM	800	33000	62000
36-BVSTM	1200	41000	77000
48-BVSTM	1600	50000	92000
60-BVSTM	2000	63000	116000
90-BVSTM	3000	110000	204000
120-BVSTM	4000	151000	279000

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

Standard steam coils are not recommended for duty where entering air is less than 40°.

Units not recommended for heating applications when the leaving air exceeds 130°. As with any hydronic system, proper freeze protections should be used (Glycol or freeze stat).

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.W.T. heating capacities.



HOT WATER HEATING CAPACITIES

2 ROW COILS

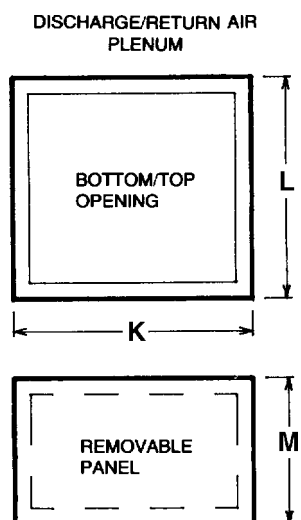
24 VH-2						36 VH-2						48 VH-2					
GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F	GPM	PD FT.	CFM	TTL MBH	LAT F	LWT F
2.0	1.50	600	35.6	115.0	143.6	3.0	3.40	900	46.5	108.0	148.2	4.0	1.10	1200	57.5	104.4	150.5
		800	40.5	106.7	138.7			1200	52.5	100.6	144.1			1600	64.0	97.4	146.9
		1000	44.0	100.8	135.0			1500	57.5	95.4	140.9			2000	70.0	92.4	144.2
3.0	3.40	600	38.5	119.3	153.8	4.0	6.00	900	49.0	110.5	154.9	6.0	2.50	1200	62.0	108.0	158.7
		800	44.0	111.2	149.8			1200	56.0	103.1	151.4			1600	70.0	100.9	155.9
		1000	48.5	105.2	146.7			1500	61.0	97.8	148.6			2000	77.0	95.8	153.6
4.0	6.00	600	40.0	121.7	159.5	5.0	9.40	900	50.5	112.1	159.2	8.0	4.40	1200	65.0	110.0	163.4
		800	46.5	113.7	156.3			1200	58.0	104.8	156.2			1600	74.0	102.9	161.0
		1000	51.5	107.7	153.6			1500	64.0	99.5	153.8			2000	81.0	97.8	159.1

60 VH-2						90 VH-2						120 VH-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
6.0	0.50	1500	73.0	105.3	154.9	9.0	1.00	2250	122.0	110.2	152.3	10.0	1.30	3000	163.0	110.3	146.6
		2000	82.0	98.2	151.9			3000	138.0	102.6	148.6			4000	184.0	102.6	142.3
		2500	89.0	93.1	149.5			3750	151.0	97.2	145.8			5000	201.0	97.1	139.0
12.0	2.00	1500	83.0	111.2	165.8	18.0	3.80	2250	137.0	116.3	164.4	20.0	5.10	3000	184.0	116.9	161.1
		2000	95.0	103.9	163.8			3000	158.0	108.7	162.0			4000	213.0	109.3	158.2
		2500	104.0	98.7	162.1			3750	175.0	103.2	160.1			5000	236.0	103.7	155.8
18.0	4.50	1500	87.0	113.5	170.1	27.0	8.50	2250	142.0	118.6	169.2	30.0	11.30	3000	193.0	119.4	166.8
		2000	100.0	106.3	168.6			3000	166.0	111.2	167.4			4000	224.0	111.9	164.7
		2500	111.0	101.1	167.3			3750	185.0	105.7	165.9			5000	251.0	106.3	162.9

STANDARD BVW COIL

24 BVW						36 BVW						48 BVW					
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
2.4	1.00	600	54.0	143.4	134.0	4.8	2.40	900	86.0	148.3	143.4	7.2	3.30	1200	117.0	150.2	146.8
		800	62.0	131.0	127.3			1200	100.0	137.6	137.2			1600	138.0	139.8	140.8
		1000	68.0	123.0	122.3			1500	112.0	129.1	132.4			2000	154.0	131.5	136.2
4.8	3.60	600	60.5	153.3	154.2	7.2	5.20	900	90.0	153.2	154.2	9.6	5.80	1200	121.0	153.5	154.2
		800	72.0	143.1	149.4			1200	108.0	143.5	149.2			1600	145.0	143.8	149.1
		1000	81.0	135.0	145.5			1500	122.0	135.5	145.2			2000	164.0	135.8	145.1
7.2	7.90	600	62.5	156.7	162.1	9.6	9.10	900	93.0	155.8	160.1	12.0	9.00	1200	124.0	155.5	158.9
		800	75.0	147.3	158.5			1200	112.0	146.7	156.0			1600	149.0	146.2	154.6
		1000	86.0	139.6	155.5			1500	128.0	139.0	152.7			2000	170.0	138.6	151.1

60 BVW						90 BVW						120 BVW					
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
9.6	3.50	1500	149.0	151.9	148.3	12.0	3.40	2250	216.0	148.9	143.2	18.0	3.80	3000	280.0	146.3	148.2
		2000	177.0	141.7	142.4			3000	254.0	138.3	136.8			4000	332.0	136.8	142.3
		2500	198.0	133.4	137.8			3750	283.0	129.9	131.9			5000	374.0	129.2	137.6
12.0	5.30	1500	153.0	154.3	153.9	18.0	7.20	2250	228.0	153.7	154.1	24.0	6.60	3000	290.0	149.3	155.3
		2000	183.0	144.7	148.8			3000	273.0	144.1	149.0			4000	348.0	140.5	150.3
		2500	207.0	136.7	144.7			3750	309.0	136.2	144.9			5000	396.0	133.2	146.3
14.4	7.60	1500	155.0	156.0	157.9	24.0	12.50	2250	234.0	156.1	160.0	36.0	14.50	3000	300.0	152.5	162.9
		2000	187.0	146.7	153.4			3000	283.0	147.1	155.9			4000	365.0	144.3	159.3
		2500	214.0	139.0	149.7			3750	323.0	139.6	152.5			5000	419.0	137.5	156.2

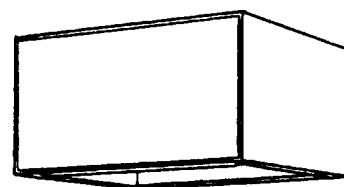


FRONT (OR BACK)

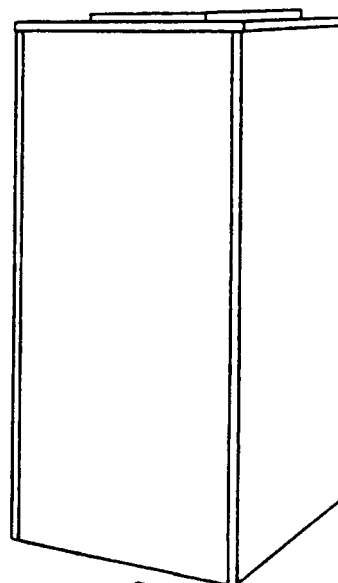
Optional Discharge or Return Air Plenum

K	L	M	SHPG WT
22"	23-1/2"	12"	23
22"	23-1/2"	12"	23
25"	23-1/2"	14"	30
29-1/4"	25-1/2"	16"	35
39"	27"	24"	41
51-1/2"	27"	24"	41

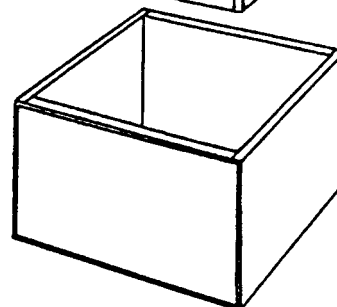
Contact the factory for further information.



Optional
Discharge
Plenum



Basic
Unit



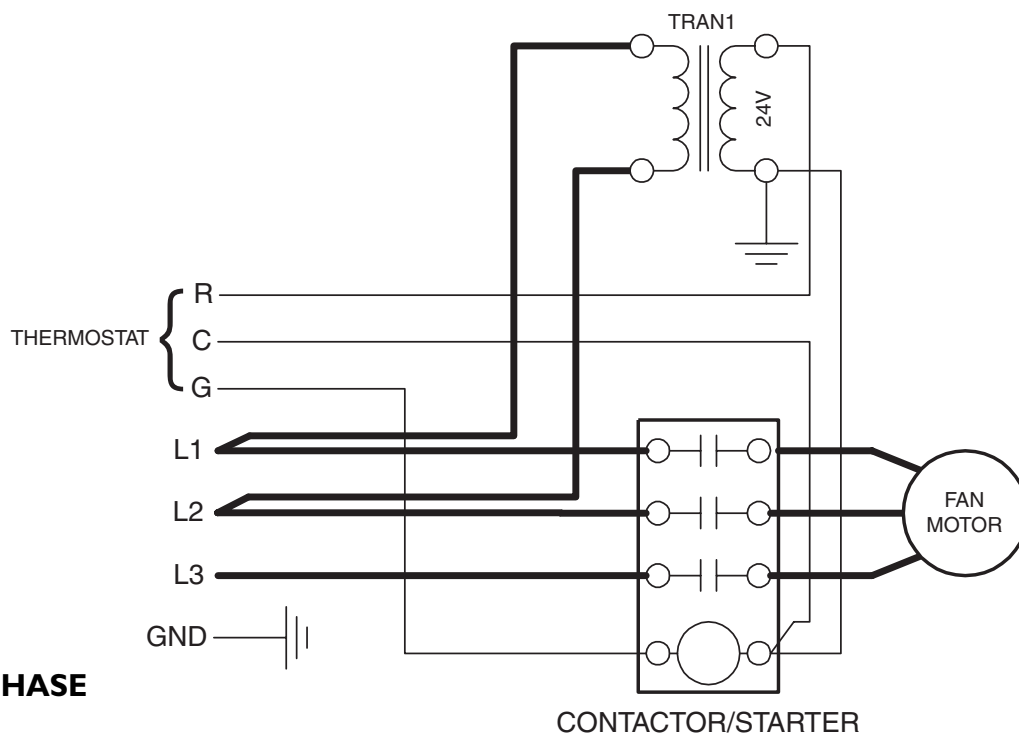
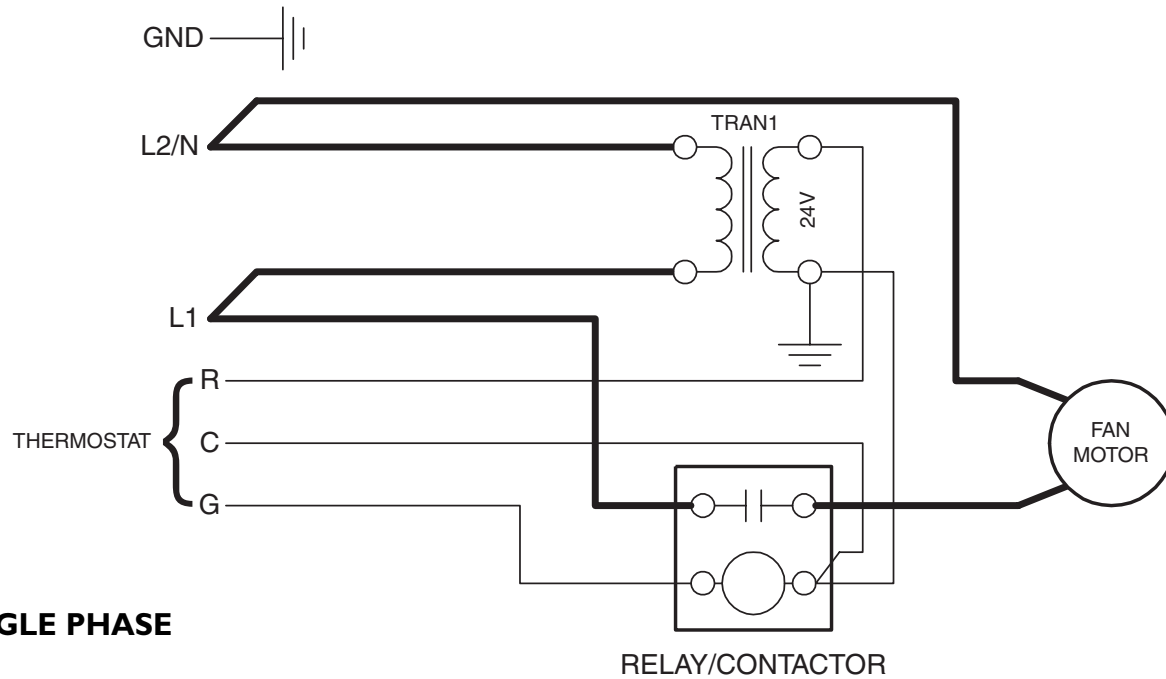
Optional
Return Air
Plenum

TYPICAL WIRING DIAGRAM FOR USE WITH BELT DRIVE UNITS

Wiring, transformer, fan relay and terminal strips field provided. **Transformer Primary must match Supply Voltage.**

REFER TO NAMEPLATE FOR PROPER VOLTAGE

LOW VOLTAGE WIRING —————
HIGH VOLTAGE WIRING —————





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	ARI 430
	Direct Drive Equipment	ARI 440
COIL CAPACITY	Hydronic Direct Expansion	ARI 410 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 ASTM B117
	Paint	

UNITED ELECTRIC COMPANY, L.P.

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