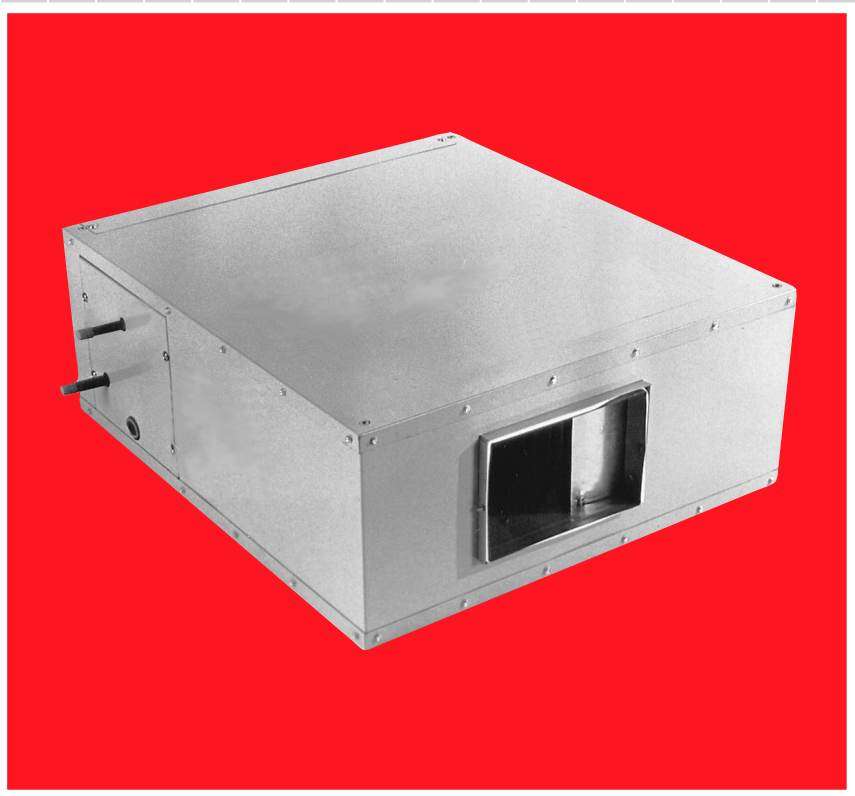
MagicAire®

DHW SERIES



HORIZONTAL DIRECT DRIVE CHILLED WATER AIR UNITS

OPTIONAL ACCESSORIES
Two Row Hot Water Coil

MAGIC AIRE DHW SERIES FAN COILS ARE ETLC 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. R value equal to 3.26.

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 3/4" FPT 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.

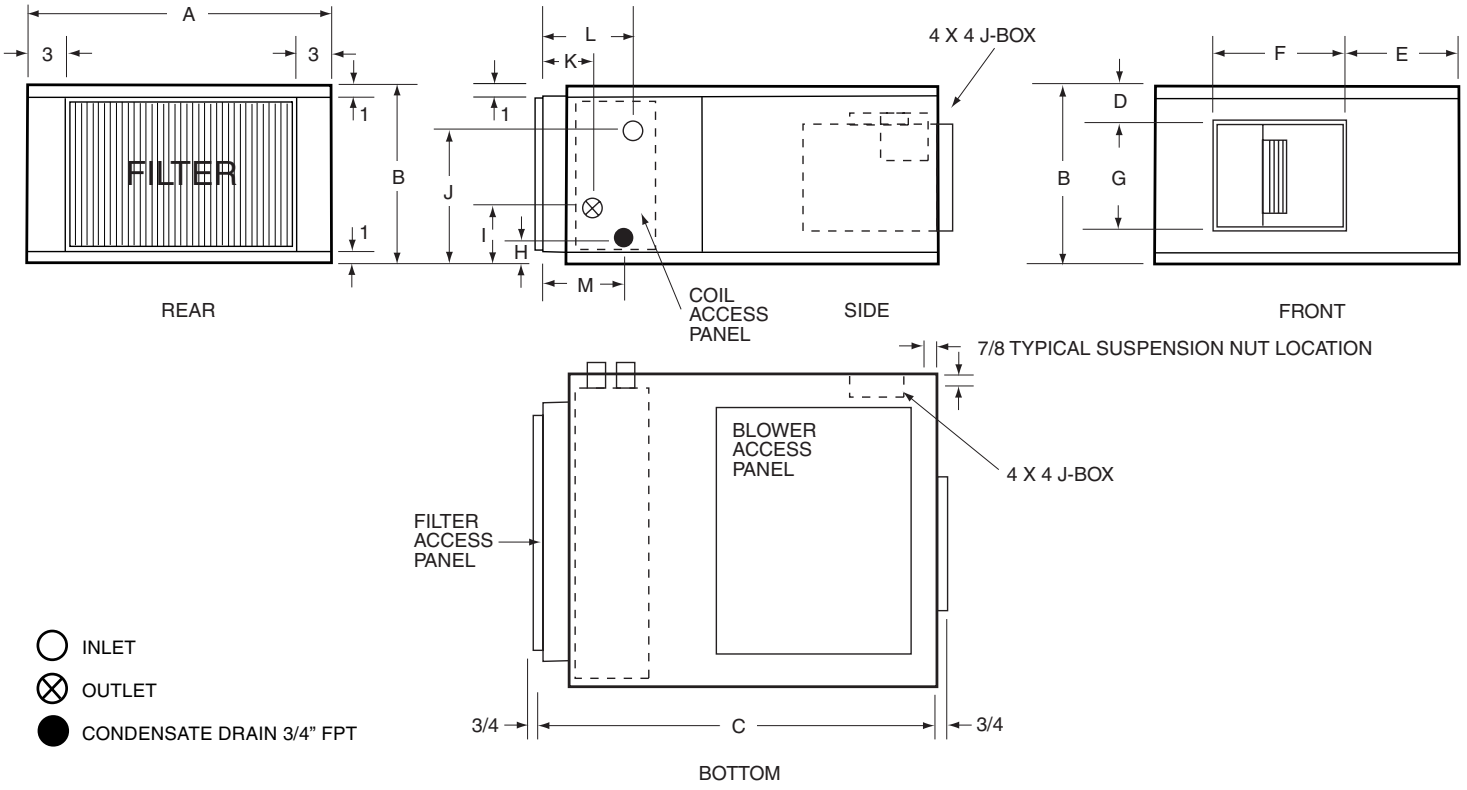
Motors, standard duty, PSC, 1075 RPM, open, drip-proof construction. Single phase motors shall be provided with resilient mount and automatic reset thermal protection.

Filters are to be 1" 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.

DHW Series
STANDARD FEATURES

- Controls (i.e. contactor or transformer/fan relay) not included in standard product.
- Chilled water (optional hot water or steam) coil stubouts, electrical and drain connections are standard right hand looking at rear of unit. Optional left hand connections available (see price sheets for additional charge).
- Stock units are 115/60/1. See price sheets for optional voltages.
- DHW units have 3/8" NC thread inserts in each corner of top and bottom panel for easy suspension.
- Blower panel designed for top or bottom access. For top access, remove coil and drain pan assembly. Turn entire unit over so the access panels are on the top, then slide the coil assembly back into the unit.
- Coils circuited for counterflow circulation.
- Stocked Optional Accessories:
  - 2 Row Hot Water Heating Coil
  - 3 Speed Fan Control Wall Switch
- Non-Stock Options:
  - Special Insulation
  - Steam Coils (See Steam Brochure)
  - Electric Heat

RIGHT HAND SHOWN



DHW Series Unit Cabinet Dimensions

MODEL	UNIT			BLOWER OUTLET				STUBOUTS LOCATIONS					
	A	B	C	D	E	F	G	H	I	J	K	L	M
DHW-400	29	12.5	32.5	2.5	7	10.75	7.25	2.25	4.50	10.00	4.00	6.625	7.500
DHW-600	25	14.5	32.5	3	5	10.75	8.75	2.25	4.50	11.00	4.00	6.625	7.375
DHW-800	31.5	14.5	32.5	3	8.25	10.75	8.75	1.875	4.50	10.50	4.00	7.00	7.375
DHW-1000	38	14.5	34	3	10.25	11.75	8.75	1.875	4.50	10.50	4.00	6.875	7.375

DHW Series Specifications

Model	Face Area Sq. Ft.	Rows Tube	Nominal Rating in Tons	DD Motor HP/AMP			Blower DD	Throwaway Filters 7/8" Thick (Actual Size)	Coil Connection	Unit Shipping Weight
				STD.	OPTIONAL					
				115/1	208-230/1	277/1				
DHW-400	1.50	4-3/8	1	1/10/1.2	0.8	0.9	9-4	11.75 X 24.375	5/8" O.D. SWT	102
DHW-600	1.53	4-3/8	1.5	1/6/3.7	1.0	0.9	9-6	14 X 20.75	5/8" O.D. SWT	103
DHW-800	2.02	4-3/8	2	1/4/3.7	1.3	2.2	9-6	13.5 X 27	5/8" O.D. SWT	125
DHW-1000	2.52	4-3/8	2.5	1/3/4.9	2.2	2.4	10-6	13.75 X 33.75	3/4" O.D. SWT	140

Motors – PSC 1075 RPM; 3 Speed Wall Switch (opt.)

DHW
CFM vs. External Static for Standard Unit

MODEL	SPEED SETTINGS	.10 ESP CFM	.20 ESP CFM	.30 ESP CFM	.40 ESP CFM	.50 ESP CFM
DHW-400	HIGH MEDIUM LOW	590 420 315	570 410 300	555 395 280	525 380 255	490 350 225
DHW-600	HIGH MEDIUM LOW	805 615 520	770 610 515	720 585 500	665 550 485	610 510 455
DHW-800	HIGH MEDIUM LOW	1040 875 670	1000 860 665	950 835 660	900 795 655	845 750 635
DHW-1000	HIGH MEDIUM LOW	1290 1105 930	1245 1080 915	1200 1060 895	1155 1035 885	1110 1000 860

DHW with HH-2
CFM vs. External Static for Standard Unit with Hot Water Coil

MODEL	SPEED SETTINGS	.10 ESP CFM	.20 ESP CFM	.30 ESP CFM	.40 ESP CFM	.50 ESP CFM
DHW-400 w/HH-400-2	HIGH MEDIUM LOW	580 415 310	560 400 295	535 390 275	505 370 250	475 345 220
DHW-600 w/HH-600-2	HIGH MEDIUM LOW	755 605 515	715 590 505	670 560 490	615 520 465	555 480 430
DHW-800 w/HH-800-2	HIGH MEDIUM LOW	990 860 670	945 835 665	895 800 660	845 760 645	795 710 610
DHW-1000 w/HH-1000-2	HIGH MEDIUM LOW	1235 1090 920	1195 1065 910	1150 1040 890	1110 1005 870	1060 970 840

CHILLED WATER COOLING CAPACITIES

DHW-400

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	1.2	1.20	300	11.5	7.9	60.6	59.8	61.3	9.7	7.2	57.7	56.7	58.2	8.0	6.6	54.7	53.8	55.5
			400	12.6	9.3	63.5	62.0	63.1	10.7	8.5	60.2	58.7	59.9	9.0	7.7	57.1	55.4	57.0
			500	13.4	10.5	65.5	63.5	64.4	11.5	9.7	62.1	60.0	61.2	9.6	8.7	58.9	56.5	58.2
	2.4	4.40	300	15.3	9.3	56.2	55.4	54.8	12.7	8.5	53.8	53.0	52.7	10.3	7.6	51.6	50.8	50.7
			400	17.2	11.0	59.5	58.2	56.4	14.4	10.1	56.7	55.5	54.0	11.7	9.0	54.1	52.8	51.8
			500	18.7	12.5	61.9	60.2	57.6	15.6	11.5	58.8	57.1	55.1	12.8	10.3	55.9	54.3	52.7
	3.6	9.50	300	17.0	10.0	54.1	53.4	51.4	14.1	9.0	52.1	51.3	49.8	11.4	8.0	50.2	49.4	48.3
			400	19.5	11.9	57.5	56.3	52.8	16.2	10.8	55.0	53.8	51.0	13.1	9.6	52.7	51.5	49.3
			500	21.4	13.5	60.0	58.3	53.9	17.9	12.3	57.2	55.6	51.9	14.5	11.0	54.6	53.0	50.1
45	1.2	1.20	300	10.5	7.5	61.8	60.9	62.6	8.8	6.9	58.8	57.8	59.7	7.2	6.1	56.0	54.8	57.1
			400	11.6	8.9	64.4	62.8	64.4	9.7	8.1	61.2	59.5	61.3	8.1	7.2	58.2	56.2	58.6
			500	12.3	10.1	66.3	64.1	65.7	10.5	9.2	63.0	60.6	62.6	8.3	8.2	59.8	57.5	58.9
	2.4	4.40	300	13.9	8.8	57.8	57.0	56.7	11.4	7.9	55.5	54.7	54.6	9.1	7.0	53.3	52.5	52.6
			400	15.7	10.5	60.8	59.5	58.1	12.9	9.5	58.1	56.8	55.8	10.2	8.4	55.6	54.2	53.6
			500	17.0	11.9	63.0	61.2	59.2	14.0	10.8	60.0	58.3	56.7	11.3	9.6	57.2	55.4	54.4
	3.6	9.50	300	15.5	9.4	56.0	55.2	53.6	12.6	8.4	54.0	53.2	52.0	10.0	7.4	52.1	51.3	50.6
			400	17.7	11.2	59.0	57.8	54.9	14.5	10.1	56.6	55.4	53.1	11.5	8.9	54.3	53.1	51.4
			500	19.5	12.8	61.3	59.6	55.9	16.0	11.6	58.6	56.9	53.9	12.7	10.3	56.0	54.3	52.1
48	1.2	1.20	300	9.6	7.1	62.9	61.9	64.0	7.9	6.5	59.9	58.8	61.3	6.4	5.7	57.3	55.8	58.8
			400	10.6	8.5	65.3	63.6	65.7	8.8	7.7	62.1	60.2	62.8	6.8	6.7	59.4	57.3	59.5
			500	11.4	9.7	67.1	64.7	67.0	9.6	8.6	64.0	61.2	64.0	7.5	7.4	61.3	58.0	60.6
	2.4	4.40	300	12.6	8.3	59.4	58.6	58.5	10.1	7.4	57.1	56.3	56.4	7.7	6.4	55.1	54.2	54.5
			400	14.1	9.9	62.1	60.8	59.8	11.3	8.8	59.5	58.2	57.5	8.9	7.8	57.0	55.4	55.5
			500	15.3	11.3	64.1	62.3	60.8	12.4	10.1	61.2	59.4	58.4	9.9	8.9	58.5	56.4	56.3
	3.6	9.40	300	13.9	8.8	57.8	57.0	55.8	11.1	7.8	55.9	55.1	54.2	8.5	6.8	54.0	53.2	52.7
			400	16.0	10.5	60.6	59.3	56.9	12.8	9.4	58.2	56.9	55.1	9.8	8.2	56.0	54.7	53.5
			500	17.5	12.0	62.7	60.9	57.8	14.1	10.8	60.0	58.2	55.8	10.9	9.4	57.5	55.7	54.1

DHW-600

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	2.30	500	17.8	12.2	62.5	60.7	56.8	14.9	11.2	59.3	57.6	54.5	12.2	10.0	56.4	54.7	52.2
			600	18.8	13.5	64.2	62.1	57.7	15.8	12.3	61.0	58.9	55.2	13.1	11.1	57.8	55.7	52.9
			700	19.6	14.6	65.7	63.1	58.4	16.6	13.4	62.3	59.7	55.9	13.8	12.1	59.0	56.4	53.6
	3.6	5.00	500	20.6	13.2	60.5	58.8	53.5	17.3	12.1	57.6	56.0	51.6	14.0	10.9	54.9	53.3	49.8
			600	22.0	14.7	62.4	60.3	54.3	18.5	13.4	59.3	57.3	52.3	15.1	12.1	56.4	54.4	50.4
			700	23.2	16.0	63.9	61.5	55.0	19.5	14.6	60.7	58.3	52.9	15.9	13.2	57.6	55.3	50.9
	4.8	8.70	500	22.4	13.9	59.2	57.6	51.4	18.7	12.7	56.5	54.9	49.8	15.2	11.3	54.0	52.5	48.3
			600	24.2	15.4	61.2	59.2	52.1	20.2	14.1	58.3	56.3	50.4	16.4	12.6	55.5	53.6	48.9
			700	25.6	16.8	62.8	60.4	52.7	21.4	15.4	59.7	57.4	51.0	17.5	13.8	56.7	54.5	49.3
45	2.4	2.30	500	16.2	11.6	63.5	61.7	58.5	13.4	10.5	60.5	58.7	56.2	10.9	9.4	57.5	55.6	54.1
			600	17.1	12.9	65.1	62.9	59.3	14.3	11.7	61.9	59.7	56.9	11.7	10.4	58.9	56.5	54.8
			700	17.9	14.0	66.5	63.8	60.0	15.0	12.8	63.1	60.5	57.6	12.4	11.3	60.0	57.1	55.4
	3.6	5.00	500	18.8	12.6	61.7	60.0	55.5	15.5	11.4	58.9	57.3	53.6	12.3	10.1	56.3	54.6	51.8
			600	20.2	13.9	63.5	61.4	56.2	16.6	12.6	60.5	58.4	54.2	13.2	11.3	57.6	55.5	52.4
			700	21.2	15.2	64.9	62.4	56.8	17.5	13.8	61.7	59.3	54.7	14.1	12.3	58.7	56.2	52.9
	4.8	8.70	500	20.4	13.2	60.6	58.9	53.6	16.8	11.9	58.0	56.4	52.0	13.3	10.5	55.5	53.9	50.5
			600	22.0	14.7	62.4	60.3	54.2	18.1	13.2	59.6	57.5	52.6	14.3	11.8	56.8	54.9	51.0
			700	23.4	16.0	63.9	61.4	54.8	19.2	14.5	60.9	58.5	53.0	15.2	12.9	58.0	55.7	51.4
48	2.4	2.30	500	14.6	11.0	64.6	62.7	60.2	11.9	9.9	61.6	59.7	58.0	9.6	8.7	58.8	56.6	56.0
			600	15.5	12.3	66.1	63.7	61.0	12.8	11.1	62.9	60.5	58.7	9.9	9.8	59.9	57.5	56.3
			700	16.3	13.4	67.3	64.5	61.6	13.5	12.0	64.1	61.1	59.3	10.6	10.5	61.1	58.0	56.9
	3.6	5.00	500	17.0	11.9	63.0	61.3	57.5	13.6	10.7	60.2	58.5	55.6	10.6	9.3	57.7	55.8	53.9
			600	18.1	13.2	64.6	62.4	58.1	14.6	11.9	61.7	59.5	56.1	11.6	10.4	58.9	56.5	54.5
			700	19.1	14.5	65.9	63.3	58.6	15.5	13.0	62.8	60.2	56.6	12.4	11.4	59.9	57.1	54.9
	4.8	8.60	500	18.4	12.4	62.0	60.3	55.7	14.7	11.1	59.4	57.8	54.2	11.3	9.7	57.1	55.3	52.7
			600	19.8	13.8	63.7	61.5	56.3	15.9	12.4	60.9	58.8	54.6	12.3	10.9	58.2	56.1	53.2
			700	21.0	15.1	65.0	62.5	56.8	16.9	13.6	62.0	59.6	55.1	13.2	12.0	59.2	56.7	53.5

CHILLED WATER COOLING CAPACITIES

DHW-800

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	3.6	3.50	700	25.2	17.1	62.4	60.5	56.1	21.2	15.7	59.3	57.5	53.8	17.3	14.1	56.4	54.6	51.7
			800	26.4	18.4	63.8	61.6	56.7	22.2	16.9	60.5	58.4	54.3	18.2	15.2	57.4	55.3	52.1
			900	27.4	19.6	64.9	62.4	57.2	23.0	18.0	61.5	59.1	54.8	19.0	16.3	58.3	55.9	52.6
	4.8	6.10	700	28.0	18.1	61.1	59.2	53.7	23.4	16.6	58.1	56.4	51.8	19.1	14.9	55.3	53.6	50.0
			800	29.4	19.6	62.4	60.3	54.3	24.6	17.8	59.4	57.3	52.3	20.0	16.1	56.4	54.4	50.4
			900	30.6	20.8	63.6	61.2	54.8	25.6	19.1	60.4	58.1	52.7	21.0	17.2	57.3	55.1	50.8
	6.0	9.40	700	30.0	18.9	60.1	58.3	52.0	25.0	17.2	57.3	55.6	50.4	20.2	15.4	54.7	53.0	48.8
			800	31.6	20.2	61.5	59.4	52.6	26.4	18.5	58.6	56.5	50.8	21.4	16.7	55.7	53.8	49.2
			900	33.0	21.6	62.7	60.3	53.1	27.6	19.9	59.6	57.3	51.2	22.4	17.8	56.7	54.5	49.5
45	3.6	3.50	700	23.0	16.3	63.5	61.6	57.9	19.0	14.8	60.4	58.5	55.6	15.4	13.2	57.5	55.6	53.6
			800	24.0	17.6	64.7	62.5	58.4	19.9	15.9	61.6	59.3	56.1	16.2	14.3	58.5	56.2	54.1
			900	25.0	18.8	65.7	63.2	58.9	20.8	17.0	62.5	59.9	56.6	17.0	15.2	59.4	56.7	54.5
	4.8	6.10	700	25.6	17.2	62.3	60.4	55.7	21.0	15.6	59.4	57.6	53.8	16.7	13.8	56.7	54.9	52.0
			800	26.8	18.5	63.6	61.4	56.2	22.0	16.9	60.5	58.4	54.2	17.7	15.0	57.7	55.5	52.4
			900	28.0	19.9	64.6	62.2	56.7	23.0	18.0	61.5	59.1	54.6	18.5	16.1	58.5	56.1	52.7
	6.0	9.30	700	27.4	17.9	61.4	59.6	54.1	22.4	16.1	58.7	56.9	52.5	17.8	14.3	56.1	54.3	50.9
			800	28.8	19.3	62.7	60.6	54.6	23.6	17.5	59.8	57.7	52.9	18.7	15.5	57.1	55.1	51.3
			900	30.2	20.6	63.9	61.4	55.1	24.8	18.7	60.8	58.4	53.3	19.7	16.6	58.0	55.6	51.6
48	3.6	3.50	700	20.8	15.5	64.5	62.6	59.6	16.9	13.9	61.6	59.6	57.4	13.5	12.3	58.8	56.5	55.6
			800	21.6	16.7	65.7	63.4	60.1	17.8	15.1	62.5	60.2	57.9	14.4	13.2	59.7	57.0	56.0
			900	22.6	17.8	66.7	64.0	60.6	18.6	16.2	63.4	60.7	58.4	14.4	14.2	60.4	57.7	56.0
	4.8	6.10	700	23.0	16.3	63.5	61.6	57.6	18.5	14.7	60.6	58.8	55.7	14.5	12.9	58.0	56.0	54.1
			800	24.2	17.6	64.7	62.4	58.1	19.5	15.8	61.7	59.5	56.1	15.5	13.9	58.9	56.5	54.5
			900	25.2	18.9	65.6	63.1	58.5	20.4	16.9	62.6	60.1	56.5	16.3	14.9	59.7	57.0	54.8
	6.0	9.30	700	24.6	16.8	62.8	60.9	56.2	19.7	15.1	60.1	58.2	54.6	15.2	13.2	57.5	55.7	53.1
			800	26.0	18.3	63.9	61.7	56.7	20.8	16.4	61.1	58.9	55.0	16.2	14.4	58.4	56.2	53.4
			900	27.0	19.5	65.0	62.5	57.1	21.8	17.5	62.0	59.5	55.3	17.1	15.4	59.2	56.6	53.7

DHW-1000

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	4.80	900	33.2	22.2	62.2	60.3	55.9	27.8	20.4	59.1	57.3	53.6	22.6	18.3	56.2	54.4	51.5
			1000	34.4	23.6	63.2	61.1	56.4	28.8	21.6	60.0	58.0	54.1	23.6	19.5	57.0	55.0	51.9
			1100	35.4	24.8	64.2	61.8	56.8	29.8	22.6	60.9	58.6	54.4	24.4	20.4	57.8	55.5	52.2
	6.0	7.40	900	36.0	23.2	61.1	59.3	54.0	30.0	21.2	58.2	56.4	52.1	24.4	19.1	55.4	53.6	50.2
			1000	37.4	24.6	62.2	60.1	54.5	31.2	22.4	59.2	57.1	52.5	25.6	20.2	56.2	54.3	50.5
			1100	38.5	26.0	63.2	60.9	54.9	32.4	23.8	60.0	57.8	52.8	26.4	21.4	57.0	54.8	50.8
	7.2	10.50	900	38.0	24.0	60.3	58.5	52.6	31.8	21.8	57.5	55.7	50.8	25.8	19.7	54.8	53.1	49.2
			1000	39.5	25.6	61.4	59.4	53.1	33.2	23.2	58.5	56.5	51.2	27.0	20.8	55.7	53.7	49.5
			1100	41.0	26.8	62.4	60.1	53.5	34.4	24.4	59.4	57.2	51.6	28.0	22.0	56.4	54.3	49.8
45	4.8	4.80	900	30.4	21.0	63.3	61.3	57.7	25.0	19.3	60.2	58.3	55.4	20.0	17.1	57.4	55.4	53.4
			1000	31.4	22.4	64.2	62.0	58.1	25.8	20.4	61.1	59.0	55.8	21.0	18.3	58.1	55.9	53.8
			1100	32.4	23.6	65.1	62.7	58.5	26.8	21.6	61.9	59.5	56.2	21.8	19.3	58.8	56.3	54.1
	6.0	7.40	900	32.8	22.0	62.3	60.4	56.0	27.0	20.0	59.4	57.6	54.0	21.4	17.7	56.8	54.9	52.2
			1000	34.2	23.4	63.3	61.2	56.4	28.0	21.2	60.3	58.2	54.4	22.4	18.9	57.5	55.4	52.5
			1100	35.2	24.8	64.2	61.8	56.8	29.0	22.4	61.1	58.8	54.7	23.2	20.0	58.2	55.9	52.8
	7.2	10.40	900	34.6	22.8	61.6	59.8	54.7	28.4	20.6	58.9	57.0	52.9	22.6	18.3	56.2	54.4	51.3
			1000	36.2	24.0	62.7	60.5	55.1	29.6	21.8	59.8	57.7	53.3	23.4	19.5	57.0	55.0	51.6
			1100	37.4	25.4	63.6	61.2	55.4	30.8	23.0	60.6	58.3	53.6	24.4	20.6	57.7	55.5	51.8
48	4.8	4.80	900	27.4	20.2	64.3	62.4	59.4	22.2	18.1	61.4	59.4	57.3	17.7	16.0	58.6	56.4	55.4
			1000	28.4	21.4	65.2	63.0	59.8	23.0	19.3	62.2	59.9	57.6	18.6	17.0	59.3	56.8	55.8
			1100	29.2	22.4	66.1	63.6	60.2	24.0	20.4	62.9	60.4	58.0	19.4	17.9	60.0	57.1	56.1
	6.0	7.30	900	29.6	20.8	63.5	61.6	57.9	23.8	18.8	60.7	58.8	56.0	18.7	16.5	58.1	56.0	54.2
			1000	30.8	22.2	64.5	62.3	58.3	24.8	19.9	61.6	59.4	56.3	19.6	17.5	58.8	56.4	54.6
			1100	31.8	23.4	65.3	62.8	58.6	25.6	21.0	62.3	59.8	56.6	20.4	18.6	59.4	56.8	54.8
	7.2	10.40	900	31.2	21.4	62.9	61.0	56.7	25.0	19.3	60.2	58.3	55.0	19.4	16.8	57.7	55.7	53.4
			1000	32.6	22.8	63.9	61.7	57.1	26.2	20.6	61.0	58.9	55.3	20.4	18.1	58.3	56.1	53.7
			1100	33.6	24.2	64.7	62.3	57.4	27.0	21.8	61.7	59.4	55.6	21.2	19.0	59.0	56.5	53.9

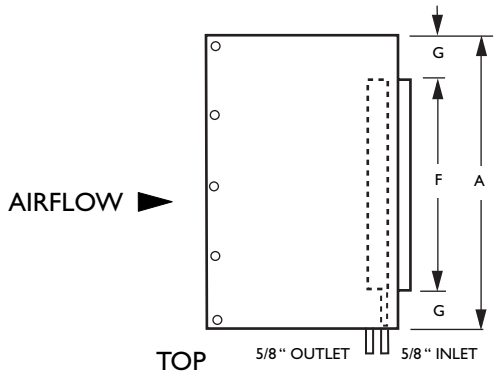
HEATING CAPACITIES FOR STANDARD DHW-4 COIL

		120°F ENTERING WATER TEMPERATURE									150°F ENTERING WATER TEMPERATURE									180°F ENTERING WATER TEMPERATURE								
GPM	PD FT.	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F
DHW-400		300 CFM			400 CFM			500 CFM			300 CFM			400 CFM			500 CFM			300 CFM			400 CFM			500 CFM		
1.2	0.96	14	101.9	97.2	16	96.7	93.3	18	92.8	90.2	21	123.0	115.7	24	115.3	109.8	27	109.4	105.2	28	144.1	134.2	32	133.6	126.5	36	125.9	120.2
2.4	3.83	15	105.9	107.5	18	101.5	104.9	21	98.5	102.5	23	129.4	131.1	27	122.6	127.2	32	118.0	123.7	30	152.0	154.9	36	143.5	149.7	42	137.2	144.9
3.6	8.63	16	107.7	111.3	19	103.3	109.5	22	100.4	107.8	23	131.6	137.0	28	125.4	134.2	33	120.9	131.6	31	156.0	162.6	38	147.2	158.9	44	140.9	155.5
DHW-600		500 CFM			600 CFM			700 CFM			500 CFM			600 CFM			700 CFM			500 CFM			600 CFM			700 CFM		
2.4	1.76	21	98.0	102.7	23	95.2	100.8	25	92.8	99.2	31	116.9	124.2	35	112.9	121.2	37	109.1	118.7	41	136.1	145.4	46	130.5	141.6	50	125.5	138.3
3.6	3.95	22	100.0	107.9	25	97.6	106.3	27	95.4	105.0	33	120.4	131.7	37	116.6	129.4	40	113.1	127.5	44	140.4	155.7	49	135.4	152.6	54	131.0	149.9
4.8	7.02	27	101.5	110.6	25	99.0	109.4	28	96.4	108.4	34	122.0	135.9	38	118.4	134.1	42	115.0	132.5	45	142.9	161.2	51	138.1	158.7	56	133.1	156.7
DHW-800		700 CFM			800 CFM			900 CFM			700 CFM			800 CFM			900 CFM			700 CFM			800 CFM			900 CFM		
3.6	2.64	29	97.9	103.9	31	96.0	102.6	33	94.0	101.4	43	116.9	125.9	47	114.0	123.8	50	111.3	122.1	58	136.0	147.8	63	131.8	145.2	67	128.3	142.8
4.8	4.69	30	99.6	107.4	33	97.6	106.3	35	96.0	105.3	45	119.4	131.1	49	116.5	129.5	53	114.0	127.9	60	139.2	154.8	66	135.3	152.6	71	132.0	150.6
6.0	6.76	31	100.4	109.7	34	98.5	108.8	36	96.8	108.0	46	120.8	134.5	51	118.0	133.1	54	115.6	131.8	62	141.0	159.4	67	137.4	157.5	72	133.8	155.9
DHW-1000		900 CFM			1000 CFM			1100 CFM			900 CFM			1000 CFM			1100 CFM			900 CFM			1000 CFM			1100 CFM		
4.8	2.85	37	98.0	104.5	40	96.6	103.4	42	95.1	102.5	56	117.2	126.6	60	114.9	125.1	63	112.9	123.6	75	136.4	148.8	80	133.0	146.8	84	130.3	144.9
6.0	4.46	38	99.0	107.2	41	97.6	106.3	43	96.2	105.5	58	118.8	130.8	61	116.4	129.5	65	114.5	128.2	77	138.5	154.3	82	135.2	152.7	87	132.6	151.0
7.2	6.42	39	100.0	109.1	42	98.3	108.4	44	97.0	107.7	59	120.0	133.6	63	117.9	132.5	67	115.6	131.5	78	139.9	158.2	84	137.0	156.7	89	134.0	155.4

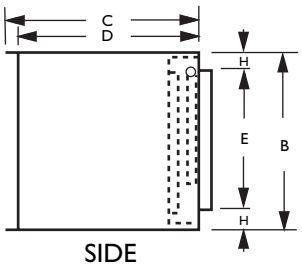
Capacities calculated and based on entering air temperatures of 60 degrees.
Units not recommended for heating applications when leaving air exceeds 140 degrees.

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 water temperatures, multiply the correction factor times the 180° E.W.T. capacity. The correction factors may be used with all Magic Aire published 180° E.W.T. heating capacities.



HH-400, 600, 800 and 1000-2 Series for DHW Models



The Hot Water Coils are to be field installed on the discharge side of the unit. When the hot water coils section is placed on the discharge end of the DHW or DHX unit, a flange will extend over the unit on the top and bottom. Screws should be installed in these flanges to secure the hot water coil to the unit.

Hot Water Section Cabinet Dimensions

MODEL	A	B	C	D	E	F	G	H	SHIPPING WEIGHTS
HH-400-2	29.00	12.75	16	15	9	22.00	3.5	1.75	35
HH-600-2	25.00	14.75	16	15	11	18.00	3.5	1.75	32
HH-800-2	31.50	14.75	16	15	11	24.50	3.5	1.75	37
HH-1000-2	38.00	14.75	16	15	11	31.00	3.5	1.75	42

Two Row Hot Water Heating Capacities (Not Suitable for Steam)

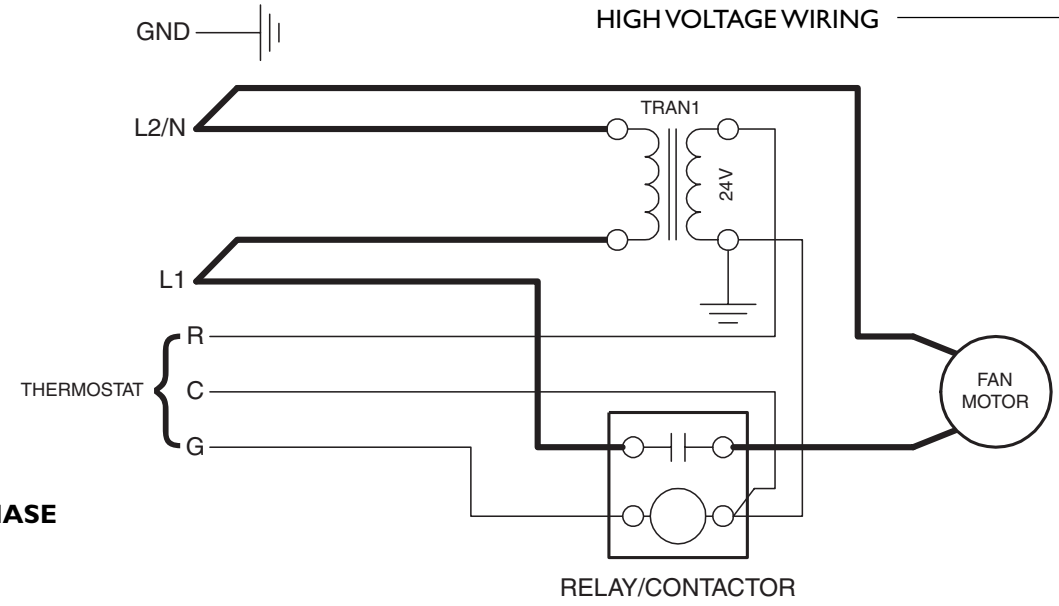
		120°F ENTERING WATER TEMPERATURE									150°F ENTERING WATER TEMPERATURE									180°F ENTERING WATER TEMPERATURE								
GPM	PD FT.	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F	TOT MBH	LVG AIR °F	LVG WTR °F
HH-400-2		300 CFM			400 CFM			500 CFM			300 CFM			400 CFM			500 CFM			300 CFM			400 CFM			500 CFM		
1.0	0.37	9	87.5	102.0	11	84.1	99.0	12	81.1	97.0	14	101.3	123.0	16	96.2	118.4	17	91.7	115.4	18	115.0	144.0	21	108.4	137.8	23	102.2	134.0
2.0	1.48	10	90.9	109.9	12	87.5	108.0	14	84.8	106.5	15	106.2	134.9	18	101.5	131.9	20	97.1	129.8	20	121.8	159.8	24	115.3	155.9	27	109.4	153.1
3.0	3.03	11	92.1	113.0	13	89.1	111.5	14	86.1	110.5	16	108.3	139.4	19	103.8	137.3	21	99.3	135.7	21	123.9	166.1	26	118.5	163.0	28	112.1	161.1
HH-600-2		500 CFM			600 CFM			700 CFM			500 CFM			600 CFM			700 CFM			500 CFM			600 CFM			700 CFM		
2.0	.60	13	84.0	106.9	14	81.7	105.8	15	79.9	104.8	20	95.8	130.5	21	92.6	128.7	23	90.0	127.1	26	107.9	153.9	29	103.6	151.5	30	99.4	149.9
3.0	1.36	14	85.9	110.6	16	83.7	109.7	17	81.9	108.9	21	98.7	135.9	23	95.5	134.5	25	92.8	133.3	28	111.6	161.3	31	107.6	159.3	33	103.8	157.7
4.0	2.41	14	86.4	112.8	16	84.5	112.0	17	82.5	111.4	22	99.8	139.1	24	96.7	138.0	26	93.8	137.1	29	112.7	165.7	32	108.9	164.0	34	105.1	162.8
HH-800-2		700 CFM			800 CFM			900 CFM			700 CFM			800 CFM			900 CFM			700 CFM			800 CFM			900 CFM		
3.0	1.67	19	84.8	107.4	20	83.2	106.5	22	81.9	105.7	28	97.1	131.1	30	94.9	129.7	32	92.8	128.5	38	109.3	154.9	41	106.4	153.0	43	103.8	151.3
4.0	2.96	20	85.6	110.2	21	84.1	109.5	22	82.7	108.8	29	98.4	135.3	31	96.0	134.3	33	94.0	133.3	39	111.1	160.5	42	108.2	159.0	45	105.5	157.7
5.0	4.63	20	86.3	112.0	22	84.8	111.4	23	83.3	110.8	30	99.4	138.0	32	97.0	137.1	34	95.0	136.3	40	112.0	164.1	43	109.4	162.8	46	106.7	161.7
HH-1000-2		900 CFM			1000 CFM			1100 CFM			900 CFM			1000 CFM			1100 CFM			900 CFM			1000 CFM			1100 CFM		
4.0	1.12	24	84.3	108.1	25	83.1	107.4	26	82.0	106.8	36	96.4	132.1	38	94.6	131.1	40	92.9	130.2	48	108.5	156.2	50	106.1	154.8	53	103.9	153.7
5.0	1.65	25	85.0	110.2	26	83.9	109.6	27	82.8	109.1	37	97.4	135.3	39	95.6	134.5	41	94.0	133.7	49	109.8	160.4	52	107.6	159.2	55	105.5	158.2
6.0	2.28	25	85.6	111.6	27	84.5	111.1	28	83.4	110.7	38	98.3	137.5	40	96.8	136.6	42	94.9	136.0	50	110.7	163.4	53	108.9	162.2	56	106.5	161.4

Capacities calculated and based on entering air temperatures of 60 degrees.
Units not recommended for heating applications when leaving air exceeds 140 degrees.

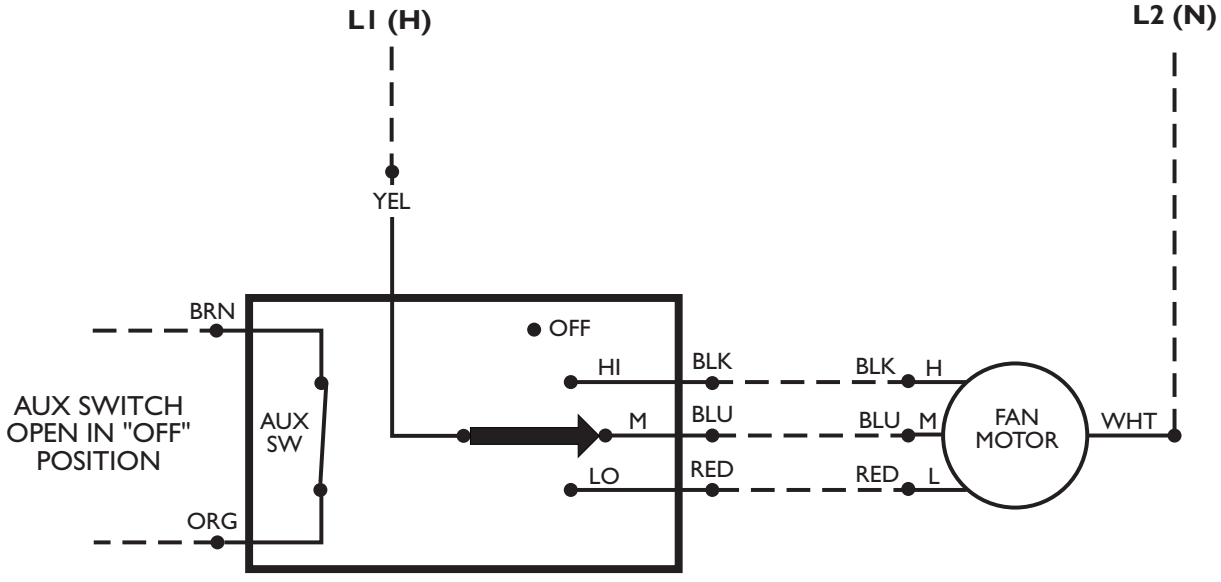
Wiring, transformer, fan relay and terminal strips field provided.
Transformer Primary must match Supply Voltage.

REFER TO NAMEPLATE FOR PROPER VOLTAGE

LOW VOLTAGE WIRING
HIGH VOLTAGE WIRING



SINGLE PHASE



OPTIONAL 3 SPEED SWITCH

Magic Aire®

ENGINEERING SPECIFICATIONS

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

AIR FLOW	General	AMCA 210 ASHRAE 51
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 ETL Report #	UL 207 SA 3438 CAN/CSA C22.2 #236 ANSI/UL-1995 491893
MATERIAL SPECIFICATIONS	Sheet Metal Copper Tubing Aluminum	ASTM A525 ASTM A527 ASTM B68 ASTM B75 ASTM B88 ASTM B251 ASTM B209
MAJOR COMPONENTS	Motors Wire Electrical Filters Fiberglass Paint	UL/CSA NEMA UL/CSA UL/CSA UL ASHRAE 52 UL 181 UL 723 (25/50) ASTM E-84 ASTM B117

MAGIC AIRE DHW SERIES FAN COILS ARE ETLC 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