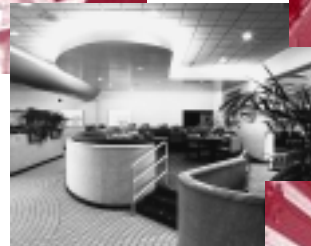
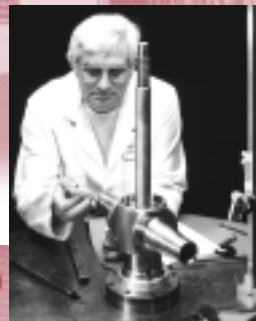
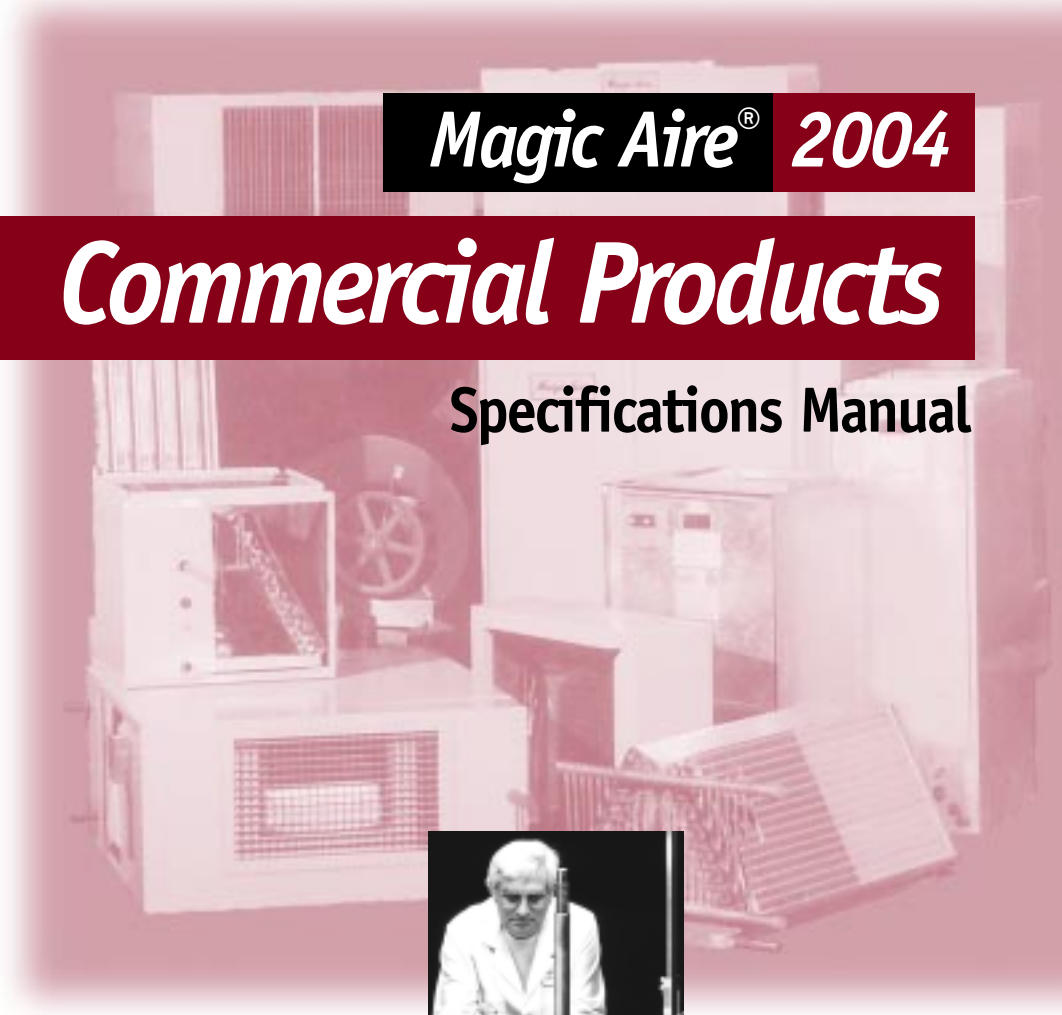


**Magic Aire® 2004**

# **Commercial Products**

**Specifications Manual**



**Magic Aire®**

*Producing Quality Heating & Cooling Equipment For Over 50 Years*

## 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 units 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:**

<b>AIR FLOW</b>	General Belt Drive Equipment Direct Drive Equipment	AMCA 210 ASHRAE 51 ARI 430 ARI 440
<b>COIL CAPACITY</b>	Hydronic Direct Expansion	ARI 410 ARI 210
<b>IN DUCT SOUND RATINGS</b>	Air Moving Equipment	ASHRAE 68 AMCA 330
<b>SAFETY AGENCY LISTINGS</b>	Coils UL Report # Equipment  ETL Report #	UL 207 SA 3438 CAN/CSA C22.2 #236 ANSI/UL-1995 491893
<b>MATERIAL SPECIFICATIONS</b>	Sheet Metal  Copper Tubing  Aluminum	ASTM A525 ASTM A527 ASTM B68 ASTM B75 ASTM B88 ASTM B251 ASTM B209
<b>MAJOR COMPONENTS</b>	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

# Commercial Products

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*For more detailed information, order Catalog Brochures by number shown in grey boxes or download your copies from the Products Page on our website at [www.magicaire.com](http://www.magicaire.com)*



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# Belt Drive Horizontal Air Units



## HBA Series *Nominal Sizes 2 thru 20 Ton*

### FEATURES

- Insulated cabinets.
- Double-slope stainless steel drain pan.
- Chilled water or DX cooling.
- Filters — 2" throwaway.
- Cabinets have baked powder enamel coating.
- Optional Features:  
Double Wall  
Face & Bypass Damper
- Optional Accessories:  
1 Row Hot Water Heating Coil  
2 Row Hot Water Heating Coil  
MB Series Mixing Boxes  
Four Way Deflection  
Discharge Grille Plenum
- Return Air Grille  
Spring Isolators  
Mixing Box Controls  
2" Pleated Filters
- Special Insulation  
Steam Coils  
Electric Heat



*For more detailed information, order Catalog Brochures Nos. HBAW 3.0 and HBAX 2.0 or download your copies from the Products Page on our website at [www.magicaire.com](http://www.magicaire.com)*

SPECIFICATIONS							
MODEL	NOM. CFM	NOM. TONS	3 ROW DX SHIP WT	WATER COIL			MIN. HP REQ'D @ NOM. CFM/.50 ESP
				4 ROW SHIP WT	6 ROW SHIP WT	2 ROW COIL ONLY SHIP WT	
24 HBA	800	2	146	145	156	13	1/3
36 HBA	1200	3	178	171	190	18	1/2
48 HBA	1600	4	203	200	227	25	3/4
60 HBA	2000	5	246	244	263	30	3/4
90 HBA	3000	7.5	425	457	475	41	1-1/2
120 HBA	4000	10	485	512	547	53	2
180 HBA	6000	15	707	700	787	86	2
240 HBA	8000	20	780	775	855	106	3

UNIT CABINET DIMENSIONS							
MODEL	UNIT			BLOWER OUTLET		RETURN DUCT CONNECTION	
	H	L	W	W	H	W	H
24 HBA	18.00	37.00	27.00	8.75	10.88	18.00	16.00
36 HBA	18.00	37.00	36.50	12.31	10.88	27.50	16.00
48 HBA	22.00	42.00	38.00	9.50	14.00	29.00	20.00
60 HBA	22.00	42.00	45.00	13.00	16.75	45.00	25.00
90 HBA	27.00	52.50	54.00	13.25	16.75	45.00	25.00
120 HBA	34.00	52.50	57.00	13.25	16.75	48.00	32.00
180 HBA	42.00	57.50	67.13	2-16.07	2-15.88	57.75	40.25
240 HBA	47.00	57.50	72.00	2-16.07	2-15.88	66.00	45.00

# Belt Drive Vertical Air Units

## BV Series *Nominal Sizes 2 thru 10 Ton*

### FEATURES

- Insulated cabinets.
- Chilled water or DX cooling.
- Filters — 2" throwaway.
- Cabinets have baked powder enamel coating.
- Optional Accessories:  
2 Row Hot Water Heating Coil  
Discharge and Return Air Plenum  
Steam Coils  
Electric Heat  
TVX Kits (24-60)



SPECIFICATIONS						
MODEL	NOM. CFM	NOM. TONS	UNIT SHIP WT	WATER COIL	BV D & R SHIP WT	MIN. HP REQ'D @ NOM. CFM/.50 ESP
				2 ROW COIL ONLY SHIP WT		
24 BV	800	2	163	14	23	1/3
36 BV	1200	3	170	14	23	1/2
48 BV	1600	4	201	17	30	3/4
60 BV	2000	5	253	21	35	3/4
90 BV	3000	7.5	362	81	41	1-1/2
120 BV	4000	10	456	102	41	2

UNIT CABINET DIMENSIONS							
MODEL	UNIT				BLOWER OUTLET		
	H	D	W	H1	H2	W	H
24 BV	50.00	23.50	22.00	62.00	74.00	8.75	12.00
36 BV	50.00	23.50	22.00	62.00	74.00	8.75	12.00
48 BV	56.50	23.50	25.00	70.50	84.50	9.50	14.00
60 BV	59.625	25.50	29.25	75.625	91.625	13.00	14.00
90 BV	78.00	27.00	39.00	102.00	126.00	13.25	16.75
120 BV	83.00	27.00	51.50	107.00	131.00	13.25	16.75

H1 = With Return Air Plenum  
H2 = With Discharge and Return Air Plenums

*For more detailed information, order Catalog Brochure No. BVW 4.0 or download your copy from the Products Page on our website at [www.magicaire.com](http://www.magicaire.com)*

# Modular Air Units



## BM Series *Nominal Sizes 4 thru 20 Ton*

### FEATURES

- Insulated cabinets.
- Chilled water or DX cooling.
- Filters — 2" throwaway.
- Cabinets have baked powder enamel coating.



*For more detailed information, order Catalog Brochures Nos. BMW 3.0 and BMX 3.4 or download your copies from the Products Page on our website at [www.magicaire.com](http://www.magicaire.com)*

### Optional Accessories:

- 2 Row Hot Water Heating Coil
- Discharge Grille Plenum
- Return Air Grille
- Mixing Box
- 2" Pleated Filters
- Stainless Steel Drain Pan
- Special Insulations
- Electric Heat



SPECIFICATIONS							
MODEL	NOM. CFM	NOM. TONS	DX SHIP WT	WATER COIL			MIN. HP REQ'D @ NOM. CFM/.50 ESP
				4 ROW SHIP WT	6 ROW SHIP WT	2 ROW COIL ONLY SHIP WT	
24 BM	800	2	160	161	171	13	.33
36 BM	1200	3	195	197	209	18	.50
48 BM	1600	4	321	321	377	30	.75
60 BM	2000	5	344	344	400	34	1
90 BM	3000	7.5	571	584	637	49	1
120 BM	4000	10	588	584	637	53	1.5
180 BM	6000	15	841	844	930	86	3
240 BM	8000	20	895	890	996	106	3

UNIT CABINET DIMENSIONS							
MODEL	UNIT			BLOWER OUTLET		RETURN DUCT CONNECTION	
	H	D	W	W	H	W	H
24 BM	36.00	31.75	37.00	12.00	8.50	27.50	16.00
36 BM	36.00	31.75	37.00	12.00	8.50	27.50	16.00
48 BM	53.50	26.00	40.00	13.63	11.88	36.00	25.50
60 BM	53.50	26.00	40.00	13.63	11.88	36.00	25.50
90 BM	68.50	34.00	50.00	19.00	16.38	48.00	32.00
120 BM	68.50	34.00	50.00	19.00	16.38	48.00	32.00
180 BM	81.50	34.00	72.00	16.38	16.38	66.00	45.00
240 BM	81.50	34.00	72.00	16.38	16.38	66.00	45.00

## BR Series *Nominal Sizes 2 thru 20 Ton*

### FEATURES

- Insulated cabinets.
- Chilled water or DX cooling.
- Filters — 2" throwaway.
- Cabinets have baked powder enamel coating.

### Optional Accessories:

- 2" 30-30 pleated filters.
- Flat roof curb shipped knocked down for field assembly.
- Weatherhoods for 100% outside air (MOAD) or 100% full modulating economizer (BREP) complete with factory mounted and wired controls are shipped separate for field installation.
- Manual minimum outside air damper (0-25%) is shipped separate for field installation.
- Standard double wall (contact factory).



*For more detailed information, order Catalog Brochure No. BRW/BRX 4.0 or download your copy from the Products Page on our website at [www.magicaire.com](http://www.magicaire.com)*

SPECIFICATIONS								
MODEL	NOM. CAP	NOM. CFM	COIL CONNECTION SIZE			DX CONNECTION SIZE		FILTERS
			4 ROW	6 ROW	2 ROW	LIQUID LINE	SUCTION LINE	
24 BR	2	800	3/4"	3/4"	5/8"	3/8"	3/4"	(1) 16 X 32
36 BR	3	1200	3/4"	7/8"	7/8"	3/8"	3/4"	(1) 16 X 32
48 BR	4	1600	7/8"	1-1/8"	7/8"	1/2"	7/8"	(2) 20 X 20
60 BR	5	2000	1-1/8"	1-1/8"	1-1/8"	1/2"	1-1/8"	(2) 20 X 20
90 BR	7.5	3000	1-3/8"	1-5/8"	1-1/8"	5/8"	1-1/8"	(2) 16 X 20 (2) 16 X 25
120 BR	10	4000	1-3/8"	1-5/8"	1-1/8"	5/8"	1-3/8"	(2) 16 X 20 (2) 16 X 25
180 BR	15	6000	1-3/8"	1-5/8"	1-1/8"	(2) 7/8"	(2) 1-3/8"	(3) 16 X 20 (3) 16 X 25
240 BR	20	8000	1-3/8"	1-5/8"	1-1/8"	(2) 7/8"	(2) 1-5/8"	(4) 16 X 20 (4) 16 X 25

NOTE: All coil connections are OD Copper SWT.

UNIT CABINET DIMENSIONS (May vary ± .25)							
MODEL	UNIT			RETURN		DISCHARGE	
	L	W	H	H	W	H	W
24 BR*	67.3	39.5	22.5	12.0	26.0	11.9	8.9
36 BR*	67.3	39.5	22.5	12.0	26.0	11.9	8.9
48 BR*	72.0	48.0	26.5	12.0	34.0	14.1	9.5
60 BR*	72.0	48.0	26.5	12.0	34.0	14.1	13.1
90 BR*	75.0	53.0	40.5	14.0	44.0	16.4	13.4
120 BR*	75.0	53.0	40.5	14.0	44.0	16.4	13.4
180 BR*	75.0	53.0	54.0	14.0	44.0	16.4	19.4
240 BR*	94.0	74.0	53.5	14.0	62.0	19.0	22.0

\*W= WATER X= REFRIGERANT



## Horizontal Direct Drive Blower Coil Units

### DH Series

#### FEATURES

- Insulated cabinets.
- Chilled water or DX cooling.
- Filters — 1" throwaway.
- Cabinets have baked powder enamel coating.
- Optional Accessories:  
2 Row Hot Water Heating Coil



#### SPECIFICATIONS

MODEL	NOM. CFM	NOM. TONS	MOTOR HP/AMP	VOLTS	PHASE	UNIT SHIPPING WEIGHT
DH-400	400	1.0	1/10 - 1.2	115	1	102
DH-600	600	1.5	1/6 - 3.7	115	1	103
DH-800	800	2.0	1/4 - 3.7	115	1	125
DH-1000	1000	2.5	1/3 - 4.9	115	1	140

#### UNIT CABINET DIMENSIONS

MODEL	UNIT			BLOWER OUTLET		RETURN DUCT CONNECTION	
	H	L	W	W	H	W	H
DH-400	12.50	32.50	29.00	10.75	7.25	23.00	10.50
DH-600	14.50	32.50	25.00	10.75	8.75	19.00	12.50
DH-800	14.50	32.50	31.50	10.75	8.75	25.50	12.50
DH-1000	14.50	34.00	38.00	11.75	8.75	32.00	12.50

For more detailed information, order Catalog Brochure No. DHW 4.0 and DHX 1.4 or download your copies from the Products Page on our website.

## Vertical Direct Drive Blower Coil Units

### DV Series

#### FEATURES

- Insulated cabinets.
- Chilled water or DX cooling.
- Filters — 1" throwaway.
- Cabinets have baked powder enamel coating.
- Optional Accessories:  
2 Row Hot Water Heating Coil  
Electric Heat  
Downflow Conversions  
(Factory Only)



#### SPECIFICATIONS

MODEL	NOM. CFM	NOM. TONS	MOTOR HP/AMP	VOLTS	PHASE	UNIT SHIPPING WEIGHT
DV-400	400	1.0	1/10 - 1.2	115	1	67
DV-600	600	1.5	1/6 - 3.7	115	1	75
DV-800	800	2.0	1/4 - 3.7	115	1	84
DV-1000	1000	2.5	1/3 - 4.9	115	1	103

#### UNIT CABINET DIMENSIONS

MODEL	UNIT			BLOWER OUTLET		RETURN DUCT CONNECTION	
	H	D	W	W	H	W	H
DV-400	25.00	13.00	24.00	7.00	10.50	18.00	6.50
DV-600	29.00	13.00	24.00	8.50	10.50	18.00	10.00
DV-800	33.00	13.00	24.00	8.50	10.50	18.00	14.25
DV-1000	34.75	14.00	29.00	8.50	11.75	23.00	14.25

For more detailed information, order Catalog Brochure No. DVW 2.3 and DVX 1.4 or download your copies from the Products Page on our website.

# Floor Mounted Vertical Fan Coil Units

## FFW Series

### FEATURES

- Insulated cabinets.
- Stainless steel drain pan.
- Filters — 1" throwaway.
- Cabinets have baked powder enamel coating. Standard color is Polar Ice.
- Stamped Discharge grille.
- Optional accessories:  
Hot Water Coil  
Outside/Return  
Air Damper  
Actuator for Damper  
Electric Heat



SPECIFICATIONS			UNIT DIMENSIONS		
MODEL	NOM. CFM	NOM. TON	W	D	H
FFW-02	200	.50	41.00	10.25	25.00
FFW-03	300	.75	45.00	10.25	25.00
FFW-04	400	1.00	51.00	10.25	25.00
FFW-06	600	1.50	61.00	10.25	25.00
FFW-08	800	2.00	63.00	10.25	25.00
FFW-10	1000	2.50	77.00	10.25	25.00
FFW-12	1200	3.00	85.00	10.25	25.00
All Coil Connections 5/8" O.D. SWT. All Drain Connections 3/4" M.P.T.					

### STOCK ITEMS

STOCK FFW FLOOR EXPOSED FLAT TOP AND STOCK FSW SERIES FLOOR EXPOSED SLOPE TOP				
NOM TONS	MODEL	ROWS CW (RH)	ROWS HW (RH)	PRODUCT NO.
.75	FFW-03-C6S-C2-R5-CA	4	1	473-200000-001
1	FFW-04-C6S-C2-R5-CA	4	1	473-200000-002
1.5	FFW-06-C6S-C2-R5-CA	4	1	473-200000-003
2	FFW-08-C6S-C2-R5-CA	4	1	473-200000-004
2.5	FFW-10-C6S-C2-R5-CA	4	1	473-200000-005
3	FFW-12-C6S-C2-R5-CA	4	1	473-200000-006
1	FSW-04-C6S-C2-R5-CA	4	1	473-200000-007
1.5	FSW-06-C6S-C2-R5-CA	4	1	473-200000-008
2	FSW-08-C6S-C2-R5-CA	4	1	473-200000-009

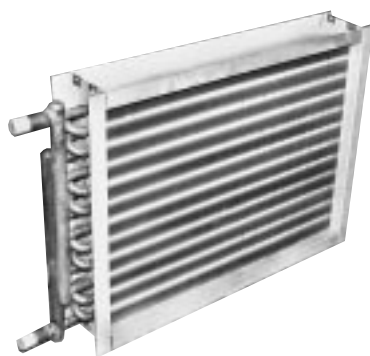
# Space Heating Water Coils

## SHW Model

### FEATURES

- Constructed of seamless copper tubing, aluminum fins, and galvanized steel casing.
- Mechanical tube expansion process assures maximum heat transfer.

- Designed for maximum 400 PSIG operating pressure and are UL® listed.
- Designed with top and bottom casing for mounting in new or existing ducts.
- Sweat connections are actual O.D.



SPECIFICATIONS											
							60 DEGREE F ENT AIR				
MODEL	ROWS	FACE AREA	ENTR WTR	GPM	PD FT	CFM	TTL MBH	LAT F	LWT F	COIL CONN O.D.	SHIP WT
SHW-2130	2	1.30	180	4.0	4.77	775	33.6	99.8	163.1	5/8	11
SHW-2208	2	2.08	180	8.0	3.53	1150	57.2	105.6	165.7	7/8	15
SHW-2347	2	3.47	180	15.0	6.01	2000	97.5	104.6	167.0	7/8	23
SHW-2417	2	4.17	180	20.0	5.64	2400	119.4	105.5	168.1	1 1/8	28
SHW-2151510	2	1.56	180	3.8	0.97	775	36.2	102.9	160.9	7/8	11
SHW-2122410	2	2.00	180	5.5	4.17	1150	53.7	102.8	160.4	7/8	15
SHW-2202010	2	2.78	180	7.5	1.95	1500	70.2	102.8	161.3	7/8	20
SHW-2153010	2	3.13	180	8.5	7.86	1700	84.8	105.7	160.0	7/8	23
SHW-2252510	2	4.34	180	11.2	3.43	2400	112.0	102.7	160.0	7/8	31
SHW-2253010	2	5.21	180	14.1	5.14	2800	135.6	104.3	160.8	7/8	37
SHW-3130	3	1.30	180	4.0	2.03	775	43.9	111.9	158.0	5/8	13
SHW-3208	3	2.08	180	8.0	2.63	1150	74.1	119.0	161.5	7/8	21
SHW-3347	3	3.47	180	15.0	6.61	2000	129.5	119.2	162.7	7/8	29
SHW-3417	3	4.17	180	20.0	6.84	2400	158.3	120.4	164.2	1 1/8	35
SHW-4130	4	1.30	180	8.0	9.38	775	56.6	126.9	165.8	5/8	18
SHW-4208	4	2.08	180	8.0	2.29	1150	86.7	129.0	158.3	7/8	25
SHW-4347	4	3.47	180	15.0	7.23	2000	154.3	130.6	159.4	7/8	38
SHW-4417	4	4.17	180	20.0	4.01	2400	182.6	129.6	161.7	1 1/8	44

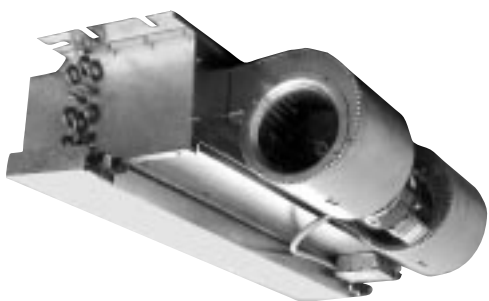


# Horizontal Uncased Fan Coil Units

## CHW-A Model

### FEATURES

- Sloped drain pan.
- Motors are three speed 115, 208, 230/1.
- Standard Control 24V.
- Optional Accessories:
  - 1 & 2 Row Hot Water Heating Coil
  - High Static Motor Option (.25 to .50 ESP)
  - Return Air Plenums (Factory Installed)
  - Pump Module Kit (Field Installed for CHW-A-HW)
  - Louvered or Solid Ceiling Access Panel
  - 220/1/50 Motor
  - Electric Heat 240/1 (Derated for 208/1)



*Special Order Production Units – Consult Factory*

### SPECIFICATIONS

MODEL	NOM. CFM	NOM. TONS	MOTOR VOLTS/AMP	MOTOR VOLTS/AMP
012-CH*-A	400	1.0	115 / 0.88	240 / 0.5
018-CH*-A	600	1.5	115 / 1.40	240 / 0.6
024-CH*-A	800	2.0	115 / 1.80	240 / 0.8
030-CH*-A	1000	2.5	115 / 1.80	240 / 0.9
036-CH*-A	1200	3.0	115 / 2.80	240 / 1.2

### UNIT DIMENSIONS

MODEL	OVERALL			DISCHARGE DUCT CONNECTION		UNIT WT.	PLENUM WT.
	H	L	W	W	H		
012-CH*-A	10.50	22.625	26.50	18.10	6.75	45.00	15.00
018-CH*-A	10.50	22.625	35.50	27.10	6.75	59.00	20.00
024-CH*-A	10.50	22.625	44.50	36.10	6.75	67.00	25.00
030-CH*-A	10.50	22.625	53.50	45.10	6.75	81.00	30.00
036-CH*-A	10.50	22.625	62.50	54.10	6.75	115.00	35.00

### STOCK ITEMS

#### STOCK CHW SERIES UNCASSED FAN COIL UNITS

NOM TONS	MODEL	ROWS CW (RH)	ROWS HW (RH)	PRODUCT NO.
1	012CHW-14	4	1	773021
2	024CHW-14	4	1	773022
2.5	030CHW-14	4	1	773023
3	036CHW-14	4	1	773024

- Equipped with 3-speed high static direct drive 120V motors and return air plenums mounted. Plenums can be used for either rear or bottom return.

*For more detailed information, order Catalog Brochure Nos. CHW-A 2.1 and CHX/P 5.1 or download your copies from the Products Page on our website at [www.magicaire.com](http://www.magicaire.com)*

*For more detailed information, order Catalog Brochures by number shown in grey boxes or download your copies from the Products Page on our website at [www.magicaire.com](http://www.magicaire.com)*

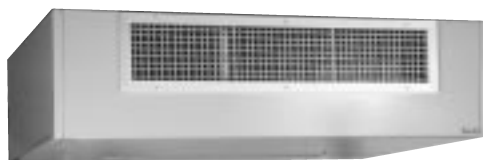


## Ceiling Exposed Horizontal Fan Coil Units

### CEW Series

#### FEATURES

- Insulated cabinets.
- Filters — 1" throwaway.
- Cabinets have baked powder enamel coating. Standard color is Polar Ice.
- Double deflection discharge grille.
- Hinged bottom service panel.
- Optional accessories:  
Hot Water Coil  
Outside/Return Air Damper  
Actuator for Damper  
Electric Heat



Special Order Production Units – Consult Factory

SPECIFICATIONS			UNIT DIMENSIONS			
MODEL	NOM. CFM	NOM. TON	W	D	D1	H
006-CEW	200	.50	33.00	36.00	28.00	12
012-CEW	400	1.00	33.00	36.00	28.00	12
018-CEW	600	1.50	42.00	36.00	28.00	12
024-CEW	800	2.00	51.00	36.00	28.00	12
030-CEW	1000	2.50	60.00	36.00	28.00	12
036-CEW	1200	3.00	69.00	36.00	28.00	12
All Coil Connections 5/8" O.D. SWT. All Drain Connections 3/4" M.P.T.			D = with 100% OA Damper Section D1 = 100% RA			

#### STOCK ITEMS

STOCK CEW SERIES FAN COIL UNITS				
NOM TONS	MODEL	ROWS CW (RH)	ROWS HW (LH)	PRODUCT NO.
1	012CEW-14	4	1	773000
2	024CEW-14	4	1	773001
2.5	030CEW-14	4	1	773002
3	036CEW-14	4	1	773003

- Ceiling hung, encased with 3-speed direct drive 120V motors, double deflection discharge grille and stamped return air grille.

## Vertical or Horizontal Fan Coil Units with Hydronic or Electric Heat

### DUW Series

#### FEATURES

- Insulated cabinets.
- Motors are three speed 115, 208, 230/1.
- Filters — 1" throwaway.
- Cabinets have baked powder enamel coating.
- Optional accessories:  
Hot Water Coil  
Electric Heat



Special Order Production Units – Consult Factory

SPECIFICATIONS			UNIT DIMENSIONS		
MODEL	NOM. CFM	NOM. TON	W	D	H
024-DUW	800	2.00	17.50	22.00	46.00
036-DUW	1200	3.00	20.00	25.00	51.00
048-DUW	1600	4.00	22.00	27.00	55.00
060-DUW	2000	5.00	24.00	31.00	57.00

#### STOCK ITEMS

STOCK DUW SERIES FAN COIL UNITS				
NOM TONS	MODEL	ROWS CW (RH)	ROWS HW (LH)	PRODUCT NO.
2	024DUWB3-2HW	3	2	784027
3	036DUWB3-2HW	3	2	784028
4	048DUWB3-3HW	3	3	784029
5	060DUWB3-3HW	3	3	784031

- Vertical or horizontal application with 120V motors and 24V trans/fan relay.

For more detailed information, order Catalog Brochure Nos. DUW 1.2 and DUXB 7.1 or download your copies from the Products Page on our website at [www.magicaire.com](http://www.magicaire.com)

# Horizontal Water/DX Coils

## HX/HW Series

- Cabinet has baked powder enamel coating and insulation.

### HX SERIES FEATURES

- HX-7.5 and HX-10 stocked with thermal expansion valve mounted. HX-7.5 and HX-10 available, single or dual circuit.
- Coils are rifled tube and lanced fin.



HW SERIES — HORIZONTAL WATER CASED COILS								
SPECIFICATIONS				DIMENSIONS				
MODEL	NOM. CAP	NOM. CFM	SHIPPING WT.	W	H	L	DUCT CONN.	
							W	H
HW-2	2	800	45	20.0	23.5	9.5	15.0	20.0
HW-3	3	1200	56	26.5	23.5	9.5	21.5	20.0
HW-4	4	1600	63	34.0	23.5	9.5	29.0	20.0
HW-5	5	2000	76	41.0	23.5	9.5	36.0	20.0
HW-7.5	7.5	3000	130	53.5	27.5	9.5	45.0	24
HW-10	10	4000	156	56.5	33.5	9.5	48.0	30

HX SERIES — HORIZONTAL DIRECT EXPANSION CASED COILS								
SPECIFICATIONS				DIMENSIONS				
MODEL	NOM. CAP	NOM. CFM	SHIPPING WT.	W	H	L	DUCT CONN.	
							W	H
HX-5	5	2000	62	36.0	25.0	9.5	30.0	21
HX-7.5V	7.5	3000	130	53.5	27.5	9.5	44.5	24
HX-10V	10	4000	156	56.5	33.5	9.5	47.5	30

For more detailed information, order Catalog Brochure Nos. VVHW 2.4 and VXHX 3.0 or download your copies from the Products Page on our website at [www.magicaire.com](http://www.magicaire.com)

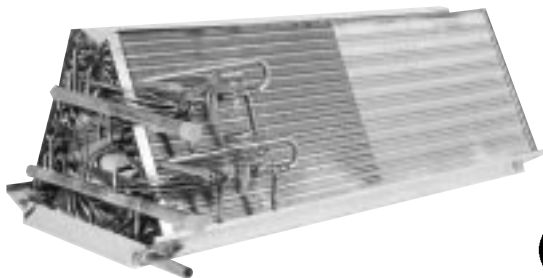
# Vertical Water/DX Coils

## VW/VX Series

- Cabinet has baked powder enamel coating and insulation.

### VX SERIES FEATURES

- Thermal expansion valve mounted.
- VX-7.5, 10 and 15 available, single or dual circuit.
- Coil and Cabinet sold and shipped separately.
- Coils are rifled tube and lanced fin.



VW SERIES — VERTICAL WATER "A" COILS										
SPECIFICATIONS					CABINET DIMENSIONS			COIL DIMENSIONS		
MODEL	NOM. CAP	NOM. CFM	SHIPPING WT.		W	D	H	W	D	H
			COIL ONLY	W/CAB.						
VW-2	2	800	29	54	22.00	22	15.25	18.38	21.75	11.50
VW-3	3	1200	37	62	22.00	22	15.25	19.88	21.75	12.00
VW-4	4	1600	46	77	24.88	22	19.50	22.75	21.75	16.25
VW-5	5	2000	56	91	28.38	22	19.50	26.63	21.38	16.50
VW-7.5	7.5	3000	74	117	38.88	22	19.50	36.63	21.38	16.50
VW-10	10	4000	102	162	51.50	22	19.50	48.63	21.38	16.50

VX SERIES — VERTICAL DIRECT UNCASED EXPANSION COILS										
SPECIFICATIONS					CABINET DIMENSIONS			COIL DIMENSIONS		
MODEL	NOM. CAP	NOM. CFM	SHIPPING WT.		W	D	H	W	D	H
			COIL ONLY	W/CAB.						
VX-2V	2	800	31	47	22.00	22	15.25	18.38	21.75	11.50
VX-3V	3	1200	37	54	22.00	22	15.25	18.38	21.75	12.00
VX-4V	4	1600	48	69	24.88	22	19.50	22.75	21.75	16.25
VX-5V	5	2000	56	81	28.38	22	19.50	26.63	21.38	16.50
VX-7.5V	7.5	3000	76	119	38.88	22	19.50	36.63	21.38	16.50
VX-7.5V Dual	7.5	3000	76	119	38.88	22	19.50	36.63	21.38	16.50
VX-10	10	4000	103	162	51.50	22	19.50	48.63	21.38	16.50
VX-10 Dual	10	4000	103	162	51.50	22	19.50	48.63	21.38	16.50
VX-15	15	6000	—	171	71.88	21	20.50	69.75	20.50	15.63
VX-15 Dual	15	6000	—	171	71.88	21	20.50	69.75	20.50	15.63

For more detailed information, order Catalog Brochure Nos. VVHW 2.4 and VXHX 3.0 or download your copies from the Products Page on our website at [www.magicaire.com](http://www.magicaire.com)

## Terms and Conditions of Sale

The following terms and conditions apply to and govern the sale of the air handling equipment and parts manufactured by both the MagicAire and Continental VAV divisions of United Electric Company, L.P. ("United Electric").

**EXCLUSIVE TERMS OF SALE** - United Electric quotes and sells its goods on the expressed condition that the buyer assents to the terms and conditions set forth hereon, regardless of any inconsistent or additional terms that may be embodied in any purchase order. United Electric's sale of its goods is expressly conditional on, and the buyer's acceptance and receipt of the goods shall constitute the buyer's assent to, such terms and conditions.

**ACCEPTANCE** - All orders are subject to Credit and Sales Department approval and acceptance. United Electric reserves the right, among other remedies, to terminate or suspend further delivery against an order in the event the buyer fails to pay any portion of the order when it becomes due. Should buyer's financial condition become unsatisfactory to United Electric, cash payments or satisfactory security may be required by United Electric for further deliveries or for goods already delivered.

**CANCELLATION** - Buyer shall not cancel the order without prior written consent of United Electric. In the event buyer cancels the order with the prior written consent of United Electric after the buyer's offer to purchase is received and acknowledged in writing, United Electric shall be entitled to receive from the buyer United Electric's cost plus a reasonable allowance for overhead and profit. Furthermore, for goods released for production but prevented by buyer from shipping upon completion or by the acknowledged shipping date, whichever is later, United Electric may, at its option, in addition to all other remedies, invoice buyer to be payable within 30 days and store the goods at buyer's sole expense.

**DELIVERIES** - Any stated shipping date of the goods is United Electric's best estimate based upon the volume of orders for the goods United Electric has received or expects to receive at the time it receives buyer's order. **UNITED ELECTRIC MAKES NO GUARANTEE OF SHIPMENT BY THE ESTIMATED DATE AND SHALL HAVE NO LIABILITY OR OTHER OBLIGATION, INCLUDING, BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES THE BUYER OR ANY THIRD PARTY MAY INCUR, FOR ITS FAILURE TO SHIP BY SUCH DATE, REGARDLESS OF CAUSE.**

**SHIPMENTS** - United Electric shall not be bound to deliver any goods for which buyer has not given shipping instructions. **ALL PRODUCTS ARE SOLD F.O.B. UNITED ELECTRIC'S PLANT. TITLE TO GOODS PASSES TO THE BUYER UPON DELIVERY BY UNITED ELECTRIC TO THE FREIGHT LINE.** All goods are shipped at buyer's risk. Buyer should examine shipments carefully for loss or damage and should have same noted by transportation agent on the freight bill upon accepting delivery. In the event of concealed damage, buyer has 15 days from receipt of the goods in which to call the freight line for an inspection.

In either case, the equipment cannot be returned to United Electric until after a freight inspection has been completed. In absence of shipping instructions, United Electric shall use its own discretion in choice of carrier.

**TAXES** - Sales, use, consumption, storage or other taxes, if applicable, shall be paid by the buyer.

**RETURN GOODS** - New and unused goods returned for credit will not be accepted unless a Return Goods Authorization number has been issued by United Electric. Goods must be securely packed to reach United Electric without damage and properly identified with the Return Goods Authorization number. **RGA numbers are valid for only 30 days after issuance.** A minimum 20% fee will be charged on all stock products cleared for return that can be returned to stock after inspection. Build-to-order products manufactured and shipped cannot be returned and a 100% cancellation fee applies to any order that has been released for production but has not shipped. All goods must be returned freight prepaid by the buyer.

**ALL PRODUCTS LIMITED WARRANTY** - United Electric warrants that its goods will be free from defects in material and workmanship under normal use and maintenance for a period of one year from the date of original installation or 18 months from the date of shipment or whichever comes first. A new or rebuilt part to replace any defective part will be provided without charge, PROVIDED the defective part is returned to United Electric. The replacement part assumes the unused portion of the warranty.

**THIS WARRANTY DOES NOT INCLUDE LABOR** or other costs incurred for identifying, repairing, removing, installing, shipping, servicing, or handling of either defective parts or replacement parts.

**UNITED ELECTRIC WILL NOT BE RESPONSIBLE FOR:**

1. Normal maintenance.
2. Damage or repairs required as a consequence of faulty installation or application by others.
3. Failure to start due to voltage conditions, blown fuses, open circuit breakers, or other damages due to the inadequacy or interruption of electrical service.
4. Damage or repairs required as a consequence of any misapplication, abuse, improper servicing, unauthorized alteration, or improper operation.
5. Damage as a result of floods, winds, fires, lightning, accidents, corrosive atmosphere, or other conditions beyond the control of United Electric.
6. Parts not supplied or designated by United Electric
7. United Electric products installed outside the United States and Canada.

**FOR SERVICE OR REPAIR, FOLLOW THESE STEPS IN ORDER:**

FIRST: Contact the installing contractor.  
SECOND: Contact the distributor or nearest authorized United Electric representative.  
THIRD: Contact:  
UNITED ELECTRIC CO., L.P.  
501 Galveston St. Wichita Falls, Texas 76301  
940-397-2100

**THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

**BUYER'S EXCLUSIVE REMEDY** - The buyer's acceptance of the goods shall confirm the buyer's review and acceptance of United Electric's All Products Limited Warranty, notwithstanding any other written or oral

warranty of the goods that may be given to the buyer. **THE BUYER'S EXCLUSIVE REMEDY AGAINST UNITED ELECTRIC SHALL BE LIMITED TO UNITED ELECTRIC'S ALL PRODUCTS LIMITED WARRANTY. NO OTHER REMEDY, INCLUDING, BUT NOT LIMITED TO, RECOVERY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS, SHALL BE AVAILABLE TO THE BUYER.**

**FIELD MODIFICATIONS** - Should the installing contractor believe that the goods do not meet the requirements of the original submittal or do not operate according to the submittal, the buyer should immediately contact the selling distributor or authorized United Electric representative as outlined in the All Products Limited Warranty section. Upon United Electric's acceptance of responsibility to make modifications to the goods, United Electric will, at its sole discretion, either direct the contractor to make the modifications, send its own field service technicians to make the modifications, or engage another contractor to make the modifications. If United Electric directs the installing contractor to make the modifications, United Electric will issue a Field Repair Order (FRO) specifying the work to be done and the price to be paid. **DO NOT BEGIN ANY MODIFICATIONS WITHOUT AN FRO NUMBER.** United Electric will not be responsible for any costs incurred in modifying the goods, unless it has approved the modifications in advance.

**EXCUSE OF PERFORMANCE** - United Electric shall not be liable for its failure to perform due to causes beyond its reasonable control, including but not limited to strikes, fire, war, acts of God, whether such events occur at or about United Electric's plant or at the plant of its suppliers.

**CASH DISCOUNT AND TERMS** - Unless otherwise specified, a 1% discount may be taken if paid within ten (10) days after invoice date. Net due thirty (30) days from date of invoice. United Electric may charge 1-1/2% each month on all sums more than 30 days past due, the first such charge to accrue on the 61st day after date of invoice.

**MISCELLANEOUS - THESE TERMS AND CONDITIONS FOR THE SALE OF THE GOODS SHALL BE CONSTRUED ACCORDING TO THE LAWS OF THE STATE OF TEXAS. ALL SUMS DUE UNITED ELECTRIC FOR THE SALE OF ITS GOODS ARE PAYABLE, AND ALL MATTERS ARISING PURSUANT TO SUCH SALE ARE PERFORMABLE, IN WICHITA COUNTY, TEXAS.** The terms and conditions stated hereon constitute the full understanding between United Electric and the buyer, and no terms, conditions, understanding or agreement purporting to modify or vary these terms shall be binding unless hereafter made in writing and signed by United Electric and the buyer.

United Electric has a policy of continuous product improvement, and reserves the right to change design and specification without notice. United Electric has no system design or application responsibility to buyer or any third party.



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