



CEW SERIES



CEILING EXPOSED HORIZONTAL FAN COIL UNITS

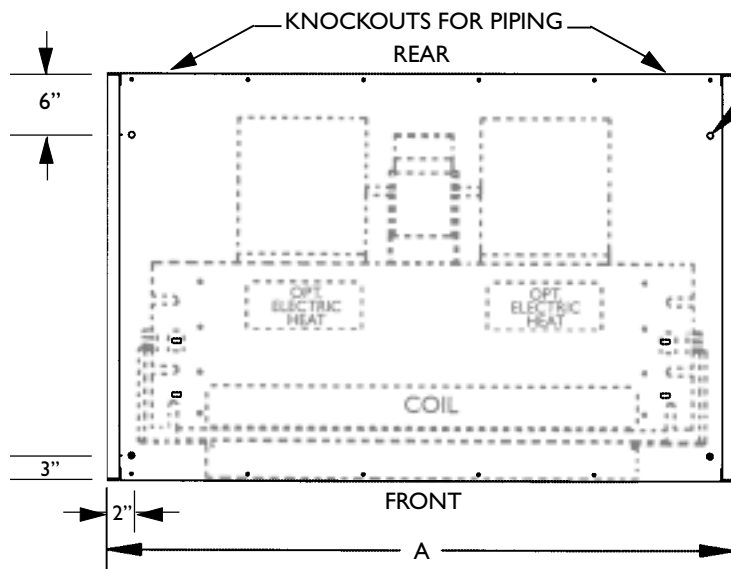


MAGIC AIRE BMW SERIES FAN COILS ARE ETL C
LISTED IN ACCORDANCE WITH UL 1995
AND ARE ASSEMBLED TO ORDER FOR COMPETITIVE DELIVERY.

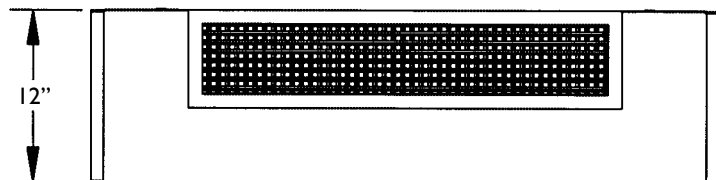
UNITED ELECTRIC COMPANY, L.P.

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

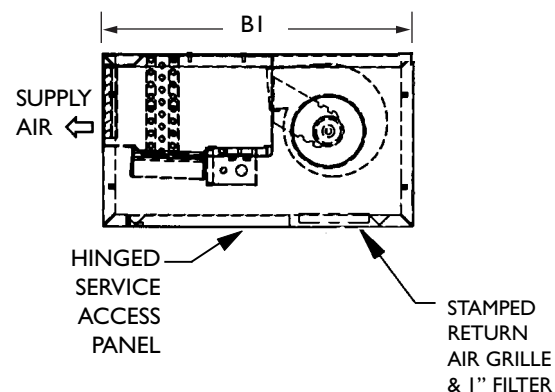
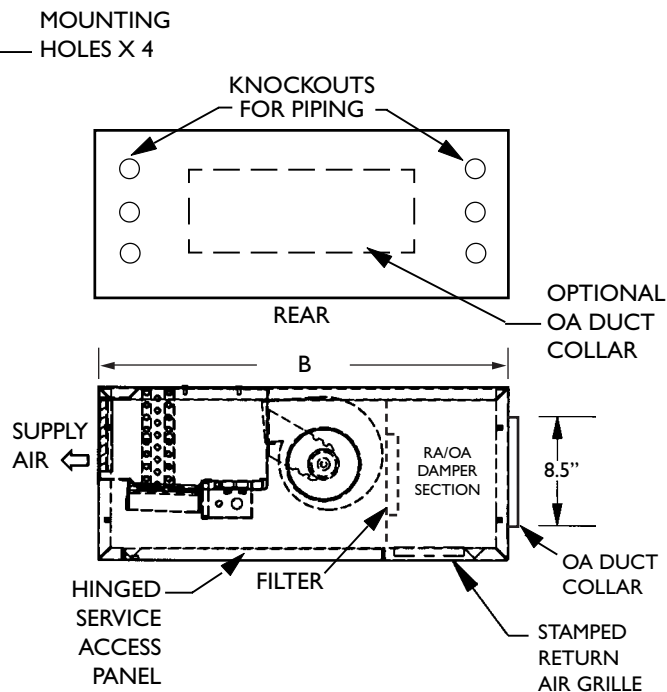
Decorative, slim cabinet designed for exposed ceiling applications. Unit includes double deflection discharge grille. Cabinet is galvanealed steel with baked powder Polar Ice color coating for the ultimate in durability. All panels are lined with acoustic and thermal glass fiber insulation. Filters are one inch throwaway and are accessed through the hinged bottom service panel. Optional mixed air damper for 100% outside air requirements.



TOP VIEW



FRONT VIEW



MODEL	DIMENSIONS			SHIPPING WEIGHT	FILTER SIZE	OPTIONAL DISC. DUCT CONN.	OPTIONAL REAR DUCT CONN.
	A	B	B1				
006 CEW	33"	36"	28"	102	10 x 18 x 1	6.75 x 15	8.5 x 18
012 CEW	33"	36"	28"	109	10 x 18 x 1	6.75 x 18	8.5 x 18
018 CEW	42"	36"	28"	147	10 x 27 x 1	6.75 x 27	8.5 x 36
024 CEW	51"	36"	28"	155	10 x 36 x 1	6.75 x 36	8.5 x 36
030 CEW	60"	36"	28"	171	10 x 45 x 1	6.75 x 45	8.5 x 45
036 CEW	69"	36"	28"	225	10 x 54 x 1	6.75 x 54	8.5 x 54
ALL COIL CONNECTIONS 5/8" O.D. SWT.							
ALL DRAIN CONNECTIONS 3/4" M.P.T.							



CE*-A Series Electrical Data

Model #	Motor FLA	KW Heat @ 120 VAC	KW Heat @ 208 VAC	KW Heat @ 240 VAC	Miniumum Circuit Ampacity @ 120 VAC	Maximum Fuse Size @ 120 VAC	Miniumum Circuit Ampacity @ 208 VAC	Maximum Fuse Size @ 208VAC	Miniumum Circuit Ampacity @ 240 VAC	Maximum Fuse Size @ 240VAC
006 CE*A	0.50	0	0	0	0.5	15	N/A	N/A	N/A	N/A
006 CE*A *-1.5E	0.50	1.5	0	0	16.1	20	N/A	N/A	N/A	N/A
006 CE*A *-2.0E	0.50	2.00	0	0	21.3	25	N/A	N/A	N/A	N/A
006 CE*A *-2.5E	0.50	2.5	0	0	26.5	30	N/A	N/A	N/A	N/A
012 CE*A	1.1	0	0	0	1.1	15	N/A	N/A	N/A	N/A
012 CE*A *-1.5E	1.1	1.5	0	0	16.7	20	N/A	N/A	N/A	N/A
012 CE*A *-2.0E	1.1	2.00	0	0	21.9	25	N/A	N/A	N/A	N/A
012 CE*A *-2.5E	1.1	2.5	0	0	27.1	30	N/A	N/A	N/A	N/A
012 CE*A *-3E	0.5	0	2.25	3	N/A	N/A	14.2	20	16.3	20
012 CE*A *-4E	0.5	0	3.00	4	N/A	N/A	18.7	25	21.5	25
012 CE*A *-5E	0.5	0	3.75	5	N/A	N/A	23.2	30	26.7	30
018 CE*A	1.4	0	0	0	1.8	15	N/A	N/A	N/A	N/A
018 CE*A *-3E	0.6	0	2.25	3	N/A	N/A	14.3	20	16.4	20
018 CE*A *-4E	0.6	0	3.00	4	N/A	N/A	18.8	25	21.6	25
018 CE*A *-5E	0.6	0	3.75	5	N/A	N/A	23.3	30	26.8	30
018 CE*A *-6E	0.6	0	4.5	6	N/A	N/A	27.8	35	32.0	35
018 CE*A *-8E	0.6	0	6.00	8	N/A	N/A	36.9	45	42.4	45
024 CE*A	1.0	0	0	0	1.0	15	N/A	N/A	N/A	N/A
024 CE*A *-3E	0.8	0	2.25	3	N/A	N/A	14.5	20	16.6	20
024 CE*A *-4E	0.8	0	3.00	4	N/A	N/A	19.1	25	21.8	25
024 CE*A *-5E	0.8	0	3.75	5	N/A	N/A	23.6	30	27.0	30
024 CE*A *-6E	0.8	0	4.50	6	N/A	N/A	28.1	35	32.3	35
024 CE*A *-8E	0.8	0	6.00	8	N/A	N/A	37.1	45	42.7	45
024 CE*A *-10E	0.8	0	7.50	10	N/A	N/A	46.1	60	53.1	60
030 CE*A	1.0	0	0	0	1.1	15	N/A	N/A	N/A	N/A
030 CE*A *-3E	0.9	0	2.25	3	N/A	N/A	14.7	20	16.8	20
030 CE*A *-4E	0.9	0	3.00	4	N/A	N/A	19.2	25	22.0	25
030 CE*A *-5E	0.9	0	3.75	5	N/A	N/A	23.7	30	27.2	30
030 CE*A *-6E	0.9	0	4.50	6	N/A	N/A	28.2	35	32.4	35
030 CE*A *-8E	0.9	0	6.00	8	N/A	N/A	37.2	45	42.8	45
030 CE*A *-10E	0.9	0	7.50	10	N/A	N/A	46.3	60	53.2	60
036 CE*A	1.5	0	0	0	1.5	15	N/A	N/A	N/A	N/A
036 CE*A *-6E	1.2	0	4.50	6	N/A	N/A	28.6	35	32.8	35
036 CE*A *-8E	1.2	0	6.00	8	N/A	N/A	37.6	45	43.2	45
036 CE*A *-10E	1.2	0	7.50	10	N/A	N/A	46.6	60	53.6	60

CEW Blower Performance with 3 Row Coil

MODEL	CFM VS EXTERNAL STATIC PRESSURES (DRY COIL DATA SHOWN)				
	0.10	0.15	0.20	0.25	0.30
006	265	235	210	165	125
012	410	380	350	310	260
018	595	550	500	430	350
024	840	785	730	665	575
030	905	840	750	675	580
036	1190	1100	1000	860	700

CEW Blower Performance with 4 Row Coil

MODEL	CFM VS EXTERNAL STATIC PRESSURES (DRY COIL DATA SHOWN)				
	0.10	0.15	0.20	0.25	0.30
006	255	225	190	155	120
012	385	360	325	280	235
018	565	530	460	395	320
024	800	745	680	610	535
030	850	785	705	635	550
036	1130	1060	920	790	640

CEW Blower Performance with 5 Row Coil

MODEL	CFM VS EXTERNAL STATIC PRESSURES (DRY COIL DATA SHOWN)				
	0.10	0.15	0.20	0.25	0.30
006	240	210	180	150	110
012	370	335	300	260	220
018	530	480	425	355	300
024	750	700	630	565	500
030	800	735	660	600	510
036	1060	960	850	710	600

BLOWER CORRECTION FACTOR		
	MED	LOW
006	.90	.80
012	.90	.80
018	.95	.91
024	.95	.91
030	.90	.80
036	.95	.91

To get airflow data at medium and low speeds, multiply blower performance by correction factor.

CEW-3 Coil Capacities

Ent Wtr	GPM	PD FT.	CFM	85 degF DB/71 deg.F WB				LWT Deg F	80 deg.F DB/67 degF WB				LWT Deg F	75 degF DB/63 deg.F WB				LWT Deg F
				TTL	SENS	LVG	AIR		TTL	SENS	LVG	AIR		TTL	SENS	LVG	AIR	
				MBH	MBH	DB	WB		MBH	MBH	DB	WB		MBH	MBH	DB	WB	
45	1.0	1.83	100	5.2	3.2	55.6	54.9	55.5	4.2	2.8	53.7	53.0	53.5	3.3	2.5	51.9	51.2	51.7
			200	7.3	5.0	61.6	60.2	59.8	6.1	4.6	58.7	57.3	57.3	4.9	4.1	55.8	54.6	54.9
			300	8.5	6.5	64.7	62.8	62.3	7.2	6.0	61.3	59.5	59.5	5.9	5.5	58.0	56.4	56.9
	1.4	2.90	100	5.6	3.3	54.0	53.3	53.1	4.5	3.0	52.4	51.7	51.6	3.6	2.6	50.9	50.3	50.2
			200	8.4	5.4	59.8	58.5	57.1	6.9	4.9	57.2	55.9	54.9	5.5	4.3	54.8	53.5	52.9
			300	9.9	7.0	63.2	61.4	59.3	8.2	6.4	60.1	58.3	56.9	6.7	5.8	57.1	55.4	54.6
	1.9	4.60	100	5.9	3.5	52.9	52.2	51.3	4.8	3.1	51.5	50.8	50.1	3.7	2.7	50.2	49.6	49.0
			200	9.2	5.7	58.3	57.0	54.8	7.5	5.2	56.0	54.7	53.0	5.9	4.5	53.9	52.6	51.3
			300	11.2	7.5	61.8	60.0	56.9	9.2	6.8	59.0	57.2	54.8	7.4	6.0	56.2	54.6	52.8
45	1.9	5.14	200	9.7	6.0	57.2	56.1	55.3	7.9	5.4	55.1	54.0	53.4	6.3	4.7	53.1	52.0	51.7
			300	11.9	7.8	60.8	59.2	57.7	9.8	7.1	58.1	56.5	55.4	7.8	6.3	55.5	54.0	53.3
			400	13.4	9.4	63.2	61.2	59.3	11.1	8.6	60.1	58.2	56.8	9.0	7.7	57.1	55.3	54.6
	2.5	7.97	200	10.4	6.2	55.9	54.9	53.4	8.4	5.6	54.1	53.0	51.8	6.6	4.9	52.3	51.3	50.4
			300	13.0	8.2	59.4	57.9	55.5	10.6	7.4	57.0	55.5	53.6	8.4	6.5	54.7	53.2	51.8
			400	14.9	9.9	61.9	60.0	57.0	12.2	9.0	59.1	57.3	54.9	9.8	8.0	56.3	54.6	52.9
	3.4	13.22	200	11.0	6.5	54.8	53.8	51.5	8.9	5.8	53.1	52.1	50.3	7.0	5.0	51.6	50.6	49.2
			300	14.1	8.7	58.1	56.6	53.4	11.5	7.8	55.9	54.5	51.8	9.1	6.8	53.9	52.5	50.4
			400	16.4	10.5	60.6	58.7	54.7	13.4	9.5	58.0	56.2	53.0	10.6	8.4	55.5	53.8	51.3
45	2.6	2.29	400	15.7	10.4	60.8	59.3	57.2	12.9	9.4	58.1	56.7	55.0	10.3	8.4	55.5	54.1	53.0
			500	17.2	12.0	62.7	60.9	58.4	14.3	10.9	59.6	58.0	56.1	11.5	9.8	56.7	55.1	54.0
			600	18.4	13.5	64.1	62.1	59.3	15.4	12.3	60.8	59.0	56.9	12.5	11.2	57.7	55.9	54.7
	3.4	3.37	400	17.2	11.0	59.5	58.0	55.2	14.1	9.9	57.0	55.6	53.4	11.2	8.7	54.7	53.3	51.6
			500	19.1	12.7	61.4	59.7	56.3	15.7	11.5	58.6	57.0	54.3	12.5	10.2	56.0	54.4	52.4
			600	20.7	14.2	62.9	61.0	57.2	17.0	13.0	59.9	58.0	55.1	13.7	11.6	57.0	55.2	53.1
	4.8	5.77	400	18.9	11.6	57.9	56.5	53.0	15.4	10.4	55.7	54.4	51.5	12.1	9.1	53.7	52.4	50.1
			500	21.4	13.5	59.8	58.2	54.0	17.4	12.2	57.4	55.8	52.3	13.8	10.7	55.0	53.5	50.8
			600	23.3	15.2	61.4	59.5	54.8	19.0	13.7	58.7	56.9	53.0	15.1	12.2	56.1	54.3	51.4
45	3.7	4.63	600	23.7	15.5	60.9	59.3	57.9	19.4	14.1	58.2	56.6	55.6	15.5	12.5	55.5	54.1	53.5
			700	25.3	17.1	62.2	60.4	58.7	20.9	15.6	59.3	57.6	56.4	16.8	14.0	56.4	54.8	54.1
			800	26.7	18.7	63.3	61.3	59.5	22.1	17.0	60.2	58.3	57.0	17.8	15.3	57.2	55.4	54.7
	4.9	7.25	600	26.0	16.4	59.5	58.0	55.7	21.3	14.8	57.1	55.6	53.7	16.8	13.1	54.7	53.3	51.9
			700	28.0	18.1	60.9	59.1	56.5	22.9	16.4	58.2	56.5	54.4	18.2	14.6	55.6	54.0	52.5
			800	29.7	19.8	62.0	60.1	57.2	24.4	17.9	59.1	57.3	55.0	19.5	16.0	56.4	54.7	53.0
	6.7	12.16	600	28.3	17.3	58.2	56.7	53.5	23.0	15.5	56.0	54.5	51.9	18.0	13.6	53.9	52.5	50.4
			700	30.7	19.2	59.5	57.8	54.2	25.0	17.2	57.1	55.5	52.5	19.7	15.2	54.8	53.2	50.9
			800	32.8	21.0	60.6	58.8	54.8	26.8	18.9	58.1	56.3	53.0	21.3	16.7	55.6	53.9	51.4
45	4.0	2.67	600	24.8	16.1	60.1	58.7	57.4	20.3	14.5	57.5	56.1	55.2	16.2	12.9	54.9	53.7	53.2
			800	28.0	19.3	62.5	60.8	59.1	23.2	17.6	59.5	57.9	56.7	18.6	15.8	56.6	55.0	54.4
			1000	30.4	22.4	64.2	62.2	60.3	25.4	20.6	61.0	59.1	57.8	20.7	18.5	57.8	56.0	55.4
	5.9	4.84	600	28.0	17.3	58.1	56.8	54.6	22.9	15.5	55.9	54.6	52.8	18.0	13.7	53.8	52.5	51.2
			800	32.3	21.0	60.7	59.0	56.0	26.5	18.9	58.0	56.4	54.0	21.1	16.8	55.5	54.0	52.2
			1000	35.6	24.3	62.5	60.6	57.1	29.4	22.1	59.6	57.7	55.0	23.6	19.6	56.7	55.0	53.0
	8.0	7.97	600	30.2	18.2	56.8	55.6	52.6	24.5	16.2	54.8	53.6	51.2	19.2	14.2	53.0	51.7	49.8
			800	35.4	22.2	59.3	57.7	53.9	28.9	20.0	56.9	55.3	52.3	22.8	17.5	54.6	53.1	50.7
			1000	39.6	25.7	61.2	59.3	54.9	32.3	23.2	58.5	56.7	53.1	25.7	20.6	55.9	54.2	51.5
45	5.5	4.85	800	33.6	21.7	59.9	58.5	57.3	27.6	19.5	57.3	55.9	55.1	22.0	17.3	54.9	53.5	53.0
			1000	37.1	25.0	61.8	60.1	58.5	30.6	22.7	59.0	57.3	56.2	24.6	20.3	56.2	54.6	54.0
			1200	40.0	28.1	63.3	61.3	59.6	33.1	25.7	60.2	58.3	57.1	26.8	23.1	57.2	55.4	54.8
	7.4	7.87	800	36.8	22.9	58.5	57.1	55.0	30.0	20.6	56.2	54.8	53.2	23.8	18.0	54.0	52.7	51.5
			1000	41.3	26.5	60.4	58.7	56.2	33.7	23.9	57.8	56.2	54.1	26.8	21.2	55.3	53.8	52.3
			1200	44.7	29.8	62.0	60.1	57.1	36.7	27.0	59.1	57.3	55.0	29.4	24.1	56.4	54.7	53.0
	9.5	11.98	800	39.3	23.9	57.4	56.0	53.3	31.9	21.3	55.3	54.0	51.7	25.1	18.6	53.4	52.1	50.3
			1000	44.4	27.7	59.3	57.7	54.4	36.1	24.9	56.9	55.3	52.6	28.5	22.0	54.7	53.1	51.0
			1200	48.6	31.3	60.9	59.0	55.2	39.7	28.2	58.2	56.5	53.4	31.4	25.0	55.7	54.0	51.7

CEW-4 Coil Capacities

Ent Wtr	GPM	PD FT.	CFM	85 degF DB/71 deg.F WB				LWT Deg F	80 deg.F DB/67 degF WB				LWT Deg F	75 degF DB/63 deg.F WB				LWT Deg F
				TTL	SENS	LVG	AIR		TTL	SENS	LVG	AIR		TTL	SENS	LVG	AIR	
				MBH	MBH	DB	WB	F	MBH	MBH	DB	WB	F	MBH	MBH	DB	WB	F
006-CEW-4	1.3	3.32	100	6.2	3.6	51.4	51.2	54.6	5.0	3.2	50.2	49.9	52.8	3.9	2.8	49.1	48.8	51.1
			200	9.3	5.9	57.4	56.7	59.5	7.7	5.4	55.0	54.4	56.9	6.1	4.8	52.8	52.2	54.6
			300	11.1	7.7	61.0	60.0	62.3	9.3	7.1	58.0	57.1	59.4	7.6	6.4	55.2	54.3	56.7
	1.7	5.00	100	6.4	3.7	50.4	50.1	52.6	5.2	3.3	49.3	49.1	51.2	4.1	2.9	48.4	48.2	49.9
			200	10.2	6.3	55.8	55.2	57.1	8.3	5.6	53.8	53.2	54.9	6.6	5.0	51.9	51.3	52.9
			300	12.4	8.2	59.5	58.6	59.8	10.3	7.5	56.8	56.0	57.2	8.3	6.7	54.3	53.5	54.8
	2.3	8.10	100	6.6	3.8	49.4	49.2	50.8	5.4	3.4	48.6	48.4	49.7	4.2	2.9	47.9	47.6	48.7
			200	11.0	6.6	54.2	53.7	54.7	9.0	5.9	52.5	52.0	52.9	7.1	5.2	51.0	50.4	51.2
			300	13.8	8.7	57.9	57.0	57.1	11.3	7.9	55.5	54.7	54.9	9.0	7.0	53.3	52.5	52.9
012-CEW-4	2.3	9.10	200	11.5	6.8	53.2	52.7	55.1	9.4	6.1	51.7	51.2	53.2	7.4	5.3	50.3	49.8	51.5
			300	14.6	9.1	56.8	56.1	57.8	11.9	8.2	54.6	53.9	55.5	9.5	7.2	52.6	51.9	53.3
			400	16.7	11.0	59.4	58.4	59.7	13.8	10.0	56.8	55.8	57.1	11.1	8.9	54.3	53.4	54.7
	3.0	14.12	200	12.1	7.1	52.1	51.6	53.1	9.8	6.3	50.8	50.3	51.6	7.7	5.5	49.6	49.1	50.2
			300	15.7	9.5	55.4	54.7	55.6	12.8	8.5	53.5	52.8	53.6	10.1	7.5	51.8	51.1	51.8
			400	18.3	11.6	58.0	57.1	57.3	15.0	10.4	55.7	54.8	55.1	11.9	9.3	53.5	52.6	53.0
	4.1	23.85	200	12.6	7.3	51.0	50.6	51.2	10.2	6.5	50.0	49.5	50.0	8.0	5.6	49.0	48.5	48.9
			300	16.8	10.0	54.1	53.4	53.3	13.6	8.9	52.4	51.8	51.7	10.7	7.7	51.0	50.3	50.3
			400	20.0	12.2	56.5	55.6	54.8	16.2	11.0	54.5	53.6	53.0	12.8	9.6	52.6	51.7	51.3
018-CEW-4	2.6	2.29	400	15.7	10.4	60.8	59.3	57.2	12.9	9.4	58.1	56.7	55.0	10.3	8.4	55.5	54.1	53.0
			500	17.2	12.0	62.7	60.9	58.4	14.3	10.9	59.6	58.0	56.1	11.5	9.8	56.7	55.1	54.0
			600	18.4	13.5	64.1	62.1	59.3	15.4	12.3	60.8	59.0	56.9	12.5	11.2	57.7	55.9	54.7
	3.4	3.37	400	17.2	11.0	59.5	58.0	55.2	14.1	9.9	57.0	55.6	53.4	11.2	8.7	54.7	53.3	51.6
			500	19.1	12.7	61.4	59.7	56.3	15.7	11.5	58.6	57.0	54.3	12.5	10.2	56.0	54.4	52.4
			600	20.7	14.2	62.9	61.0	57.2	17.0	13.0	59.9	58.0	55.1	13.7	11.6	57.0	55.2	53.1
	4.8	5.77	400	18.9	11.6	57.9	56.5	53.0	15.4	10.4	55.7	54.4	51.5	12.1	9.1	53.7	52.4	50.1
			500	21.4	13.5	59.8	58.2	54.0	17.4	12.2	57.4	55.8	52.3	13.8	10.7	55.0	53.5	50.8
			600	23.3	15.2	61.4	59.5	54.8	19.0	13.7	58.7	56.9	53.0	15.1	12.2	56.1	54.3	51.4
024-CEW-4	4.7	8.68	600	29.5	18.2	56.7	56.0	57.6	24.1	16.4	54.5	53.8	55.3	19.1	14.5	52.5	51.8	53.2
			700	31.8	20.3	58.1	57.3	58.6	26.2	18.3	55.7	54.9	56.2	20.9	16.2	53.4	52.6	53.9
			800	33.9	22.2	59.3	58.3	59.5	27.9	20.1	56.7	55.8	57.0	22.4	17.9	54.2	53.3	54.6
	6.1	13.39	600	31.7	19.1	55.4	54.6	55.4	25.8	17.1	53.5	52.8	53.5	20.4	15.0	51.7	51.0	51.7
			700	34.5	21.4	56.7	55.9	56.4	28.2	19.1	54.6	53.8	54.3	22.3	16.8	52.6	51.8	52.4
			800	36.9	23.4	58.0	57.0	57.2	30.3	21.1	55.6	54.7	55.0	24.1	18.5	53.4	52.5	52.9
	8.2	22.08	600	33.7	20.0	54.1	53.4	53.3	27.4	17.8	52.4	51.8	51.7	21.5	15.5	51.0	50.3	50.3
			700	37.1	22.4	55.4	54.6	54.1	30.2	20.0	53.5	52.7	52.4	23.8	17.4	51.8	51.0	50.8
			800	40.2	24.6	56.5	55.6	54.8	32.6	22.0	54.5	53.6	53.0	25.8	19.3	52.6	51.7	51.3
030-CEW-4	5.0	2.75	600	29.4	18.3	56.6	56.0	56.8	24.1	16.5	54.4	53.8	54.7	19.1	14.6	52.4	51.8	52.7
			800	33.8	22.3	59.2	58.4	58.6	27.9	20.2	56.6	55.8	56.2	22.4	18.0	54.1	53.3	54.0
			1000	37.1	25.8	61.1	60.1	59.9	30.9	23.6	58.2	57.2	57.4	25.0	21.2	55.4	54.4	55.1
	7.0	4.65	600	32.4	19.5	54.8	54.2	54.3	26.4	17.4	53.0	52.4	52.6	20.8	15.3	51.3	50.8	51.0
			800	38.0	23.9	57.4	56.6	55.9	31.0	21.5	55.1	54.3	53.9	24.7	18.9	53.0	52.3	52.1
			1000	42.3	27.7	59.4	58.4	57.1	34.7	25.1	56.8	55.8	55.0	27.8	22.3	54.3	53.4	53.0
	9.0	7.03	600	34.2	20.3	53.6	53.1	52.6	27.8	18.0	52.1	51.5	51.2	21.8	15.7	50.6	50.1	49.9
			800	40.8	25.0	56.1	55.3	54.1	33.2	22.4	54.1	53.4	52.4	26.2	19.5	52.2	51.5	50.9
			1000	45.9	29.0	58.1	57.2	55.2	37.5	26.2	55.8	54.8	53.4	29.8	23.2	53.5	52.7	51.7
036-CEW-4	7.0	5.13	800	40.2	24.8	56.3	55.6	56.5	32.8	22.3	54.2	53.5	54.4	26.0	19.6	52.2	51.6	52.5
			1000	45.0	28.8	58.3	57.5	57.9	36.9	26.1	55.9	55.0	55.6	29.5	23.2	53.6	52.8	53.5
			1200	48.9	32.5	59.9	58.9	59.0	40.4	29.5	57.2	56.2	56.6	32.4	26.4	54.6	53.7	54.3
	8.7	7.34	800	42.7	25.8	55.1	54.5	54.8	34.7	23.1	53.3	52.6	53.0	27.4	20.2	51.6	50.9	51.3
			1000	48.3	30.1	57.1	56.3	56.1	39.5	27.1	54.9	54.1	54.1	31.3	23.9	52.9	52.1	52.2
			1200	52.8	34.0	58.8	57.8	57.2	43.4	30.7	56.3	55.4	55.0	34.6	27.3	53.9	53.0	53.0
	10.0	9.29	800	44.1	26.4	54.5	53.8	53.8	35.7	23.5	52.8	52.1	52.2	28.2	20.6	51.2	50.5	50.7
			1000	50.2	30.8	56.4	55.6	55.1	40.9	27.7	54.4	53.6	53.2	32.3	24.3	52.5	51.7	51.5
			1200	55.2	34.9	58.1	57.1	56.1	45.2	31.4	55.7	54.8	54.1	35.8	27.8	53.5	52.6	52.2

I Row Heating

006-CEW-IHW

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	0.5	1.19	100	6.8	122.6	152.6
			200	8.9	101.0	144.1
			300	10.1	91.0	139.3
	1.0	2.75	100	7.4	128.3	165.1
			200	10.1	106.7	159.6
			300	11.8	96.2	156.2
	1.5	4.99	100	7.6	130.4	169.7
			200	10.6	109.0	165.7
			300	12.5	98.4	163.2

012-CEW-IHW

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	0.5	1.29	200	9.7	104.9	140.7
			300	11.1	94.1	135.3
			400	12.0	87.7	131.6
	1.5	5.63	200	11.6	113.7	164.3
			300	13.8	102.4	161.5
			400	15.3	95.4	159.4
	2.5	12.71	200	12.1	115.9	170.2
			300	14.5	104.5	168.3
			400	16.2	97.5	166.9

018-CEW-IHW

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	0.5	1.59	400	14.6	93.6	121.1
			500	15.4	88.5	117.7
			600	16.1	84.8	115.0
	1.5	7.55	400	19.1	104.0	154.3
			500	20.8	98.2	152.1
			600	22.2	93.9	150.3
	2.5	17.26	400	20.3	106.7	163.7
			500	22.2	100.9	162.1
			600	23.8	96.5	160.8

024-CEW-IHW

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	1.0	5.04	600	23.5	95.9	132.8
			700	24.6	92.3	130.6
			800	25.5	89.3	128.7
	2.0	15.13	600	27.0	101.4	152.8
			700	28.6	97.5	151.3
			800	30.0	94.4	149.9
	3.0	29.58	600	28.4	103.5	161.0
			700	30.2	99.6	159.8
			800	31.7	96.4	158.8

030-CEW-IHW

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	2.0	3.31	600	29.3	104.9	150.5
			800	32.5	97.3	147.4
			1000	34.9	92.1	144.9
	3.0	6.11	600	31.1	107.7	159.1
			800	34.8	100.0	156.7
			1000	37.8	94.7	154.7
	4.0	9.66	600	32.1	109.2	163.9
			800	36.1	101.5	161.9
			1000	39.4	96.1	160.3

036-CEW-IHW

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	2.5	5.32	800	37.2	102.7	150.1
			1000	40.4	97.0	147.6
			1200	42.9	92.8	145.6
	3.5	9.04	800	39.2	104.9	157.5
			1000	42.7	99.2	155.5
			1200	45.6	94.8	153.9
	4.5	13.60	800	40.4	106.3	162.0
			1000	44.1	100.4	160.4
			1200	47.2	96.1	159.0

2 Row Heating

006-CEW-2HW

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	0.5	1.91	100	10.0	152.4	139.6
			200	14.1	125.2	122.9
			300	16.3	110.1	114.2
	1.0	5.08	100	10.8	159.7	158.2
			200	16.5	136.0	146.8
			300	20.0	121.3	139.8
	1.5	9.60	100	11.0	162.0	165.1
			200	17.3	140.0	156.7
			300	21.5	125.8	151.2

012-CEW-2HW

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	0.5	2.12	200	15.1	129.6	119.1
			300	17.4	113.7	109.6
			400	18.9	103.6	103.7
	1.5	10.90	200	18.5	145.3	155.1
			300	23.1	130.9	149.0
			400	26.5	120.8	144.5
	2.5	25.20	200	19.2	148.7	164.5
			300	24.5	135.0	160.3
			400	28.4	125.3	157.2

018-CEW-2HW

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	2.0	4.15	400	31.8	133.0	148.1
			500	35.4	125.0	144.5
			600	38.4	118.6	141.6
	3.0	7.78	400	33.5	136.9	157.6
			500	37.6	129.1	154.8
			600	41.2	122.8	152.5
	4.0	12.37	400	34.4	138.9	162.7
			500	38.9	131.3	160.5
			600	42.7	125.1	158.6

024-CEW-2HW

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	3.0	9.71	600	46.4	130.9	149.0
			700	50.0	125.4	146.6
			800	53.1	120.8	144.5
	4.0	15.51	600	48.1	133.5	155.9
			700	52.0	128.1	153.9
			800	55.5	123.5	152.2
	5.0	22.43	600	49.1	135.0	160.3
			700	53.3	129.8	158.6
			800	57.0	125.3	157.2

030-CEW-2HW

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	4.5	4.43	600	51.9	139.2	156.9
			800	60.3	129.0	153.2
			1000	67.0	121.3	150.2
	5.5	6.06	600	52.9	140.8	160.7
			800	61.8	130.8	157.5
			1000	69.0	123.2	154.9
	6.5	7.94	600	53.7	141.9	163.5
			800	62.9	132.1	160.6
			1000	70.5	124.5	158.3

036-CEW-2HW

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	6.0	7.93	800	67.2	136.9	157.6
			1000	75.5	129.1	154.8
			1200	82.4	122.8	152.5
	7.0	10.20	800	68.2	138.0	160.5
			1000	76.9	130.3	158.0
			1200	84.1	124.1	156.0
	8.0	12.73	800	69.0	138.9	162.7
			1000	77.9	131.3	160.5
			1200	85.4	125.1	158.6

3 ROW HEATING

006-CEW-3

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	1.0	1.58	100	11.9	169.6	156.0
			200	19.1	148.3	141.4
			300	23.7	132.5	132.4
	1.4	2.42	100	12.1	171.5	162.6
			200	20.2	152.7	151.0
			300	25.4	137.9	143.5
	1.9	3.72	100	12.2	172.6	167.0
			200	20.8	155.6	158.0
			300	26.7	141.7	151.8

012-CEW-3

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	1.9	4.17	200	21.8	160.3	156.9
			300	28.4	146.9	150.0
			400	33.3	136.4	144.8
	2.5	6.35	200	22.2	162.1	162.1
			300	29.3	149.6	156.5
			400	34.6	139.5	152.2
	3.4	10.36	200	22.6	163.7	166.7
			300	30.0	151.9	162.3
			400	35.8	142.3	158.8

018-CEW-3

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	2.6	1.99	400	38.8	149.0	150.1
			500	44.1	140.8	146.0
			600	48.4	133.9	142.7
	3.4	2.87	400	40.1	151.8	156.4
			500	45.9	144.0	153.0
			600	50.7	137.4	150.1
	4.8	4.81	400	41.3	154.5	162.8
			500	47.6	147.2	160.1
			600	53.0	140.9	157.9

024-CEW-3

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	3.7	3.88	600	56.7	146.6	149.3
			700	61.9	141.0	146.5
			800	66.5	136.0	144.0
	4.9	5.98	600	58.6	149.4	156.0
			700	64.3	144.1	153.7
			800	69.3	139.3	151.7
	6.7	9.91	600	60.1	151.8	162.0
			700	66.3	146.7	160.2
			800	71.8	142.1	158.6

030-CEW-3

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	4.0	2.38	600	60.4	152.2	149.8
			800	71.4	141.7	144.3
			1000	80.0	133.2	140.0
	5.9	4.23	600	62.8	155.9	158.7
			800	75.4	146.3	154.4
			1000	85.5	138.3	151.0
	8.0	6.89	600	64.2	158.0	163.9
			800	77.7	148.9	160.6
			1000	88.8	141.2	157.8

036-CEW-3

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	5.5	4.21	800	79.3	150.7	151.1
			1000	90.4	142.7	147.1
			1200	99.5	135.9	143.8
	7.4	6.75	800	81.6	153.4	157.9
			1000	93.8	145.9	154.6
			1200	104.1	139.4	151.8
	9.5	10.21	800	83.2	155.2	162.5
			1000	96.1	147.9	159.8
			1200	107.1	141.7	157.4

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

4 ROW HEATING

006-CEW-4

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	1.3	2.75	100	12.8	171.6	161.2
			200	22.1	161.5	145.8
			300	28.5	147.3	136.0
	1.7	4.04	100	12.9	172.5	165.5
			200	22.7	164.1	153.2
			300	29.8	151.2	144.8
	2.3	6.42	100	4.4	93.3	176.8
			200	23.1	166.3	159.8
			300	30.9	154.5	153.0

012-CEW-4

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	2.3	7.25	200	23.9	169.7	159.1
			300	32.4	159.2	151.7
			400	39.1	149.5	145.9
	3.0	11.09	200	24.1	170.9	163.8
			300	33.1	161.3	157.8
			400	40.3	152.3	153.1
	4.1	18.50	200	24.3	171.9	168.1
			300	33.7	163.1	163.5
			400	41.4	154.8	159.8

018-CEW-4

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	3.0	2.96	400	43.9	160.6	150.7
			500	50.9	153.3	146.0
			600	56.7	146.7	142.1
	4.3	5.07	400	45.2	163.6	158.9
			500	53.0	157.0	155.3
			600	59.6	151.0	152.2
	6.0	8.62	400	46.0	165.5	164.6
			500	54.3	159.5	161.9
			600	61.5	153.9	159.5

024-CEW-4

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	4.7	7.10	600	65.1	159.4	152.3
			700	72.2	154.4	149.2
			800	78.5	149.8	146.6
	6.1	10.83	600	66.5	161.4	158.2
			700	74.0	156.8	155.7
			800	80.8	152.5	153.5
	8.2	17.70	600	67.6	163.1	163.5
			700	75.6	158.8	161.5
			800	82.8	154.8	159.8

030-CEW-4

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	5.0	2.53	600	67.6	163.1	153.0
			800	82.1	153.9	147.1
			1000	93.8	145.8	142.5
	7.0	4.21	600	69.3	165.7	160.2
			800	85.3	157.5	155.6
			1000	98.5	150.1	151.8
	9.0	6.33	600	70.2	167.1	164.4
			800	87.0	159.5	160.7
			1000	101.1	152.6	157.5

036-CEW-4

Ent Wtr	GPM	PD FT.	CFM	60 DegF Ent Air		
				TTL MBH	LAT F	LWT F
180	7.0	4.59	800	89.2	162.0	154.5
			1000	103.8	155.1	150.3
			1200	116.3	148.7	146.7
	8.7	6.54	800	90.6	163.6	159.2
			1000	106.1	157.1	155.6
			1200	119.5	151.2	152.5
	10.0	8.25	800	91.3	164.5	161.7
			1000	107.4	158.3	158.5
			1200	121.2	152.5	155.7

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



CEILING EXPOSED HORIZONTAL FAN COILS CEW

3 & 4 ROW CHILLED WATER COOLING WITH OPTIONAL ELECTRIC OR HOT WATER HEAT

Model Size	SERIES DESIGNATION		ELECTRIC HEAT ADDERS (KV)*				HOT WATER HEAT ADDERS	
	CEW-3	CEW-4	1.5-2.5	3-5	6-8	10	1 ROW	2 ROW
006	✓	✓	✓	NA	NA	NA	✓	✓
012	✓	✓	✓	✓	NA	NA	✓	✓
018	✓	✓	NA	✓	✓	NA	✓	✓
024	✓	✓	NA	✓	✓	✓	✓	✓
030	✓	✓	NA	✓	✓	✓	✓	✓
036	✓	✓	NA	NA	✓	✓	✓	✓

- As standard equipment all CEW series units are equipped with 3 speed Direct Drive 115v single phase motor.
- All CEW series units with electric heat are equipped with contactor for 115v control (24v is available).
- 1.5 – 2.5 kW electric heaters are 120v. All other electric heaters are 208-230v.
- Coil options are 3, 4, 3/1 split, 4/1 split, 1/3 split, 2/3 split, 1/4 split and 5 row (maximum). Split coils are for four pipe systems.
Use 4/1 split for 5 row coil pricing.

• Consult “Piping & Control Packages” brochure for all factory selected thermostat and valve cluster combinations. See “Control Pricing & Coding” and “Valve Pricing – Clusters & Components” for pricing of same.

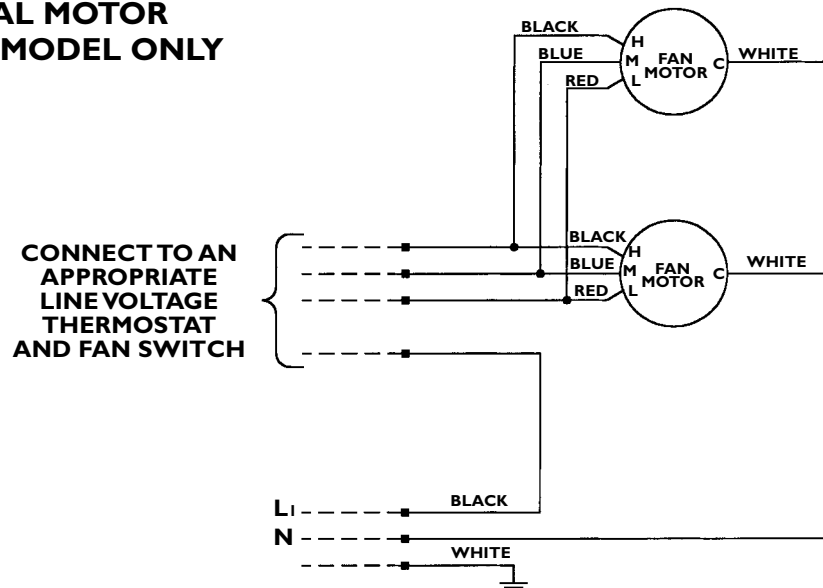
CEW OPTIONS (Contact factory for availability)

OPTIONS	MODEL NUMBER					
	006-CE	012-CE	018-CE	024-CE	030-CE	036-CE
220v/1Ø 50Hz motor	✓	✓	✓	✓	✓	✓



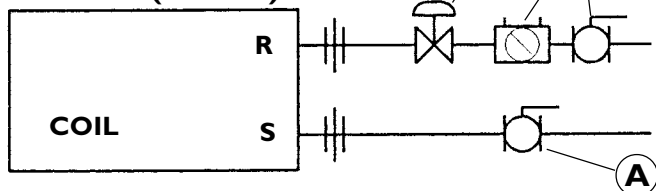
WIRING DIAGRAM CEW SERIES

DUAL MOTOR ON 036 MODEL ONLY

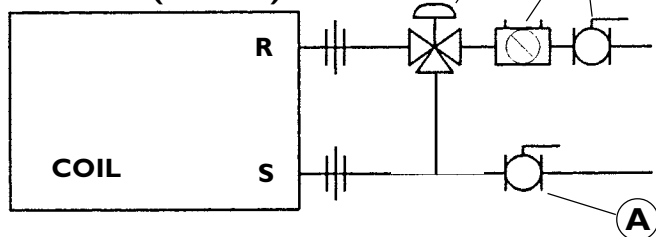


FOR CEW FAN COIL UNITS SERIES

WATER (2-WAY)



WATER (3-WAY)

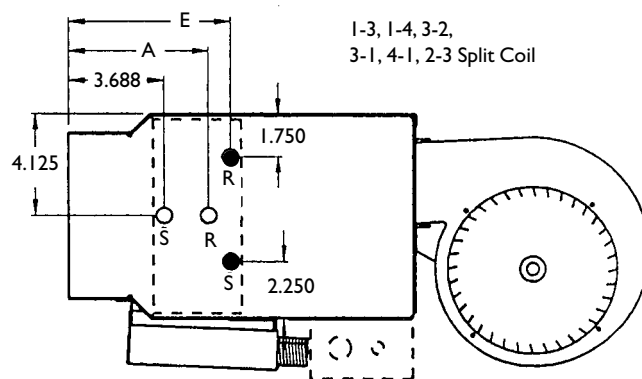
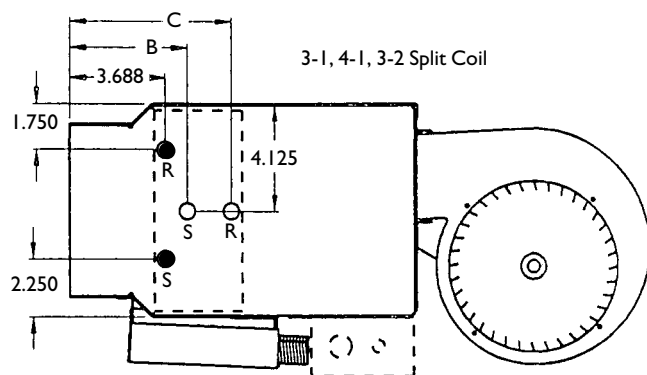


	COMPONENTS	VOLTS	SIZE
A SERVICE VALVES	BALL VALVES (BALANCE VAL)		1/2
			3/4
	GATE VALVES		1/2
			3/4
B CONTROL VALVES	2-WAY MOTORIZED	24	1/2
		115	1/2
		24	3/4
		115	3/4
	3-WAY MOTORIZED	24	1/2
		115	1/2
		24	3/4
		115	3/4
C FLOW CONTROL (NOT BOTH AT SAME TIME)	BALL VALVE W/ MEMORY STOP -OR- CIRCUIT SETTER (3 WEEKS)		1/2
			3/4
			1/2
			3/4

1. VALVE SIZE: 5/8 (1/2) OR 7/8 (3/4).
2. CONTROL VOLTAGE (24, 115).
3. 2-WAY OR 3-WAY MOTORIZED VALVES, TWO-POSITION, SPRING RETURN, NORMALLY CLOSED CONTROL VALVES WITH MANUAL OPENING LEVER.

CEW COIL CONNECTION DIMENSIONS

LEFT HAND COOLING (Heating opposite side) SHOWN (Right hand is mirror image)



S – SUPPLY
R – RETURN
○ – CHILLED WATER
● – HOT WATER

UNIT	A	B	C	E
006-036-CHW-3-A	5.438			
006-036-CHW-4-A	6.313			
006-036-CHW-5-A	7.188			
006-036-CHW-31-A		4.500	6.250	
006-036-CHW-41-A		4.500	7.125	
006-036-CHW-32-A		5.375	7.125	
006-036-CHW-13-A				6.313
006-036-CHW-14-A				7.188
006-036-CHW-23-A				7.188



ENGINEERING SPECIFICATIONS

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

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

AIR FLOW	General	AMCA 210 ASHRAE 51
	Belt Drive Equipment Direct Drive Equipment	ARI 430 ARI 440
COIL CAPACITY	Hydronic 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)
	Paint	ASTM E-84 ASTM B117

UNITED ELECTRIC COMPANY, L.P.

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