

V High Efficiency Series

Wallmount Air Conditioners



PERFORMANCE:

Efficiency rating of 9.0/9.5 EER

Electric heat available from 5 kW to 18 kW

Designed for ducted or non-ducted applications

ARI performance certified, ETL certified

FEATURES:

Rugged, commercial-grade construction

16- and 20-gauge G-90 galvanized construction;
protected by a 1000-hour salt spray, baked-on
polyester finish

Multi-function circuit boards can incorporate LP, HP switches. (optional)

Plug-in control options and heater receptacle minimize field wiring for control options and electric heaters (standard on all models)

Built-in circuit breakers with lockable outside access door on all models (disconnect on 460 volt models)

Factory-installed air filters: 1" disposable

Permanently-lubricated indoor and outdoor motors;
indoor blower assembly designed for quiet operation in
ducted or free-blow applications

Barometric damper with washable outside air filter
(standard on all models)

Phase monitor is standard in all 3-phase units

Applications include telecom, schools, offices, and modular buildings

MODEL KEY: Wallmount Air Conditioners R-22

V **36** **B** **10** **A** **1** **F** **D** **P** **-** **N** **B** **- - - -**

VERTICAL PACKAGE
36 = 36,000 BTU/H
A = COPELAND RECIP
B = COPELAND SCROLL

ELECTRIC HEAT kW

ELECTRICAL CHARACTERISTICS
1 - 208-230, 1PH, 60HZ
3 - 208-230, 3PH, 60HZ
4 - 460 VOLT, 3PH, 60HZ

FRESH AIR OPTION
F - BAROMETRIC DAMPER
B - SOLID DOOR

CABINET COLOR
G - GRAY
B - MESA TAN

CONTROL OPTION
SEE OPTION CHART
SECOND LETTER = -
(IF NOT USED)

V High Efficiency Series

MODEL SPECIFICATIONS						
MODEL V	24A	30A	30B	36A	36A	36B
COOLING CAPACITY	24 000	30000	30 000	35 000	35000	35 000
EER ①	9.00	9.00	9.00	9.00	9.00	9.00
VOLTS / PHASE / HERTZ	208-230/1/60	208-230/1/60	230/1/60	208-230/1/60	208-230/3/60	208-230/1/60
COMPRESSOR DATA						
TYPE	RECIP	RECIP	SCROLL	RECIP	RECIP	SCROLL
RATED LOAD AMPS	10.9	15.3	15.7	16.6	11.4	15.7
CRANKCASE HEATER ③	40 WATT PTC					
OUTDOOR FAN DATA						
HP / RPM	1/5 / 1 075					
FLA – AMP	1.5					
FAN BLADE – DIA/CFM	20" / 2600					
BLOWER DATA						
HP / RPM	1/6 / 1075	1/3 / 1075		1/3 / 1075		
FLA – AMP	1.5	2.5				
RATED – CFM / ESP ④	750 / 0.26	1000 / 0.35		1150 / 0.20		
VENTILATION PACKAGES						
BAROMETRIC DAMPER	ADJUSTABLE BAROMETRIC DAMPER STANDARD ON ALL MODELS					
BAROMETRIC FILTER	PERMANENT WASHABLE 7" x 29" x 1/4"					
MAX FRESH AIR – CFM / % ⑤	160 / 20%	190 / 19%			250 / 20%	250 \ 21%
FRESH AIR RANGE	0% – 100%					
RETURN AIR FILTER	25" x 16" x 1" DISPOSABLE					
WEIGHT-SHIPING / NET	316 / 294	350 / 322	350 / 322	353 / 325	353 / 325	347/ 319

MODEL SPECIFICATIONS					
MODEL V	48B	48B	60B	60B	60B
COOLING CAPACITY	48 000	48 000	57000	57 000	57 000
EER ①	9.50	9.50	9.50	9.50	9.50
VOLTS / PHASE / HERTZ	208-230/1/60	208-230/3/60	208-230/1/60	208-230/3/60	460/3/60
COMPRESSOR DATA					
TYPE	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
RATED LOAD AMPS	24.3	16.4	28.0	19.3	9.1
OUTDOOR FAN DATA					
HP / RPM	1/2 / 1100				
FLA – AMP	2.5 1.5				
FAN BLADE – DIA/CFM	22" / 3900				
BLOWER DATA					
HP / RPM	1/2 / 1100		3/4 / 1100		
FLA – AMP	3.5		5.0		
RATED – CFM / ESP ④	1500 / 0.35		1900/0.30		
VENTILATION PACKAGES					
BAROMETRIC DAMPER	ADJUSTABLE BAROMETRIC DAMPER STANDARD ON ALL MODELS				
BAROMETRIC FILTER	PERMANENT WASHABLE 7" x 29" x 1/4"				
MAX FRESH AIR – CFM / % ⑤	500 / 33%				550 / 30%
FRESH AIR RANGE	0% – 100%				
RETURN AIR FILTER	20" x 30" x 1" Disposal				
WEIGHT-SHIPING / NET	515 / 485	515 / 485	537 / 507	537 / 507	537 / 507

① Rated in accordance with DOE and ARI Test standards.
 ③ 40 WATT PTC is an Optional crankcase heater.
 ④ Includes factory-installed filters and wet coils.
 ⑤ CFM with standard return air filter grille in place.

All specifications contained in this brochure are subject to change without notice.
 Weight subject to variation based on options selected and installed with units.



ELECTRICAL DATA

[1] MODEL NO. AND ELECTRIC HEATER kW	VOLT/ PHASE	MAX. UNIT AMPS	NO. OF FIELD POWER CKTS.	SINGLE-FIELD CIRCUIT				DUAL-FIELD CIRCUIT							
				MINIMUM WIRE AMPACITY	[2] MAX OVER CURRENT PROTECTION	[3,4,5] FIELD POWER WIRE SIZE	GROUND WIRE SIZE	MIN. WIRE AMPACITY		MAX OVER CURRENT PROTECTION [2]		FIELD POWER WIRE SIZE [3],[4],[5]		GROUND WIRE SIZE	
								CKT1	CKT2	CKT1	CKT2	CKT1	CKT2	CKT1	CKT2
V24A00A1	208-230/1	13.8	1	17	25	10	10								
5		22.2	1	28	30	10	10								
10		43.1	1	54	60	6	10								
V30A00A1	208-230/1	19.3	1	23	30	10	10								
5		23.3	1	29	40	10	10								
10		44.2	1	55	60	6	10								
V36A00A1	208-230/1	20.6	1	25	40	10	10								
5		23.3	1	29	40	10	10								
10		44.2	1	55	60	6	10								
15		65.0	10R2	81	90	4	6	25	57	40	90	10	6	10	10
V30B00A1	208-230/1	19.0	1	23	30	10	10								
5		23.3	1	29	40	10	10								
10		44.2	1	55	60	6	10								
15		65.0	10R2	81	90	4	6	23	59	30	90	10	6	10	10
V36B001A	208-230/1	21.9	1	26	40	10	10								
5		23.3	1	29	40	10	10								
10		44.2	1	55	60	6	10								
15		65.0	1 OR2	81	90	4	6	26	55	40	90	10	6	10	10
V48B00A1	208-230/1	30.0	1	36	60	8	10								
5		30/3	1	36	60	8	10								
10		47.7	1	57	60	6	8								
15		66.1	1 OR 2	83	90	4	6	36	57	60	60	8	6	10	10
V60B00A1	208-230/1	34.1	1	41	60	8	10								
5		34.1	1	41	60	8	10								
10		47.8	1	57	60	6	8								
15		66.1	10R2	83	90	4	6	41	57	60	60	8	6	10	10
V36A00A3	208-230/3	15.4	1	18	25	10	10								
6		16.9	1	21	25	10	10								
11		30.1	1	38	40	8	10								
V48B00A3	208-230/3	22.4	1	27	40	8	10								
6		17.9	1	22	30	10	10								
11		30.0	1	38	40	8	10								
18		46.9	1	59	60	6	8								
V60B00A3	208-230/3	25.4	1	30	45	8	10								
6		19.4	1	23	30	8	10								
11		30.1	1	38	45	8	10								
18		46.9	1	59	60	6	8								
V60B00A4	460/3	12.7	1	15	25	10	10								
6		15.6	1	19	30	10	10								
11		15.4	1	19	25	10	10								
15		20.2	1	25	30	10	10								

[1] Heater data is based on 240V and 480V AC respectively.

[2] Maximum recommended size of "Time Delay" fuse or HACR circuit breaker.

[3] Power supply wire size and ground wire sizes are based on AWG. 75C rise, NEC Article 310 and table 310-16.

[4] For single power supply conductor, sized per NEC table 310-16.

[5] Power supply wire uses 75C rated COPPER CONDUCTORS ONLY.

COOLING PERFORMANCE

UNIT	A.R.I. CERTIFIED RATING				TEMPERATURES IN (°F) COOLING DATA IN M.B.T.U.H.	
	BTUH	EER	CFM		82	95
V24A	24 000	9.0	750	TOTAL	25.0	24.0
				SENSIBLE	15.8	15.4
				WATTS (kW)	2.4	2.5
V30A / V30B	30 000	9.0	1 000	TOTAL	34.0	30.0
				SENSIBLE	23.1	28.0
				WATTS (kW)	3.1	3.3
V36A / V36B	35 000	9.0/9.5	1 150	TOTAL	37.5	35.0
				SENSIBLE	25.9	25.0
				WATTS (kW)	3.7	3.98
V48B	48 000	9.5	1 500	TOTAL	51.8	48.0
				SENSIBLE	34.8	33.0
				WATTS (kW)	4.4	4.9
V60B	57 000	9.5	1 900	TOTAL	60.4	57.0
				SENSIBLE	42.3	42.1
				WATTS (kW)	5.5	6.1

Cooling performance based on 80°F/ DB 67° WB indoor ambient with 0% fresh air.

Rated in accordance with ARI and DOE Test Standards.

CONTROL OPTION MODULES

OPTIONS	CONTROL OPTION	CONTROL OPTION PACKAGES*		
		1	2	3
C - OPT	LOW AMBIENT CONTROL / FAN CYCLE ①	X		
HP	HIGH / LOW PRESSURE SWITCHES	X	X	
LP	HIGH / LOW PRESSURE SWITCHES	X		X

① Low Ambient Control permits cooling operation down to 0°F.

ELECTRIC HEATERS

HEATER MODEL	BTU* OUTPUT	* AMPS	SHIP WT	APPROVED UNIT AND HEATER COMBINATION								
				24-1	30-1	36-1	48-1	60-1	36-3	48-3	60-3	60-4
EGA05B1	17000	20.8	15	X	X	X	X	X				
EGA10B1	34000	41.6	16	X	X	X	X	X				
EGH15B1	51000	62.5	18			X	X	X				
EGH06B3	20000	14.4	15						X	X	X	
EGH11B3	37000	26.5	18						X	X	X	
EGH18B3	61000	43.3	18							X	X	
EGH06D4	20000	7.2	15							X	X	X
EGH11D4	37000	13.2	18							X	X	X
EGH15D4	51000	18.0	18							X	X	X

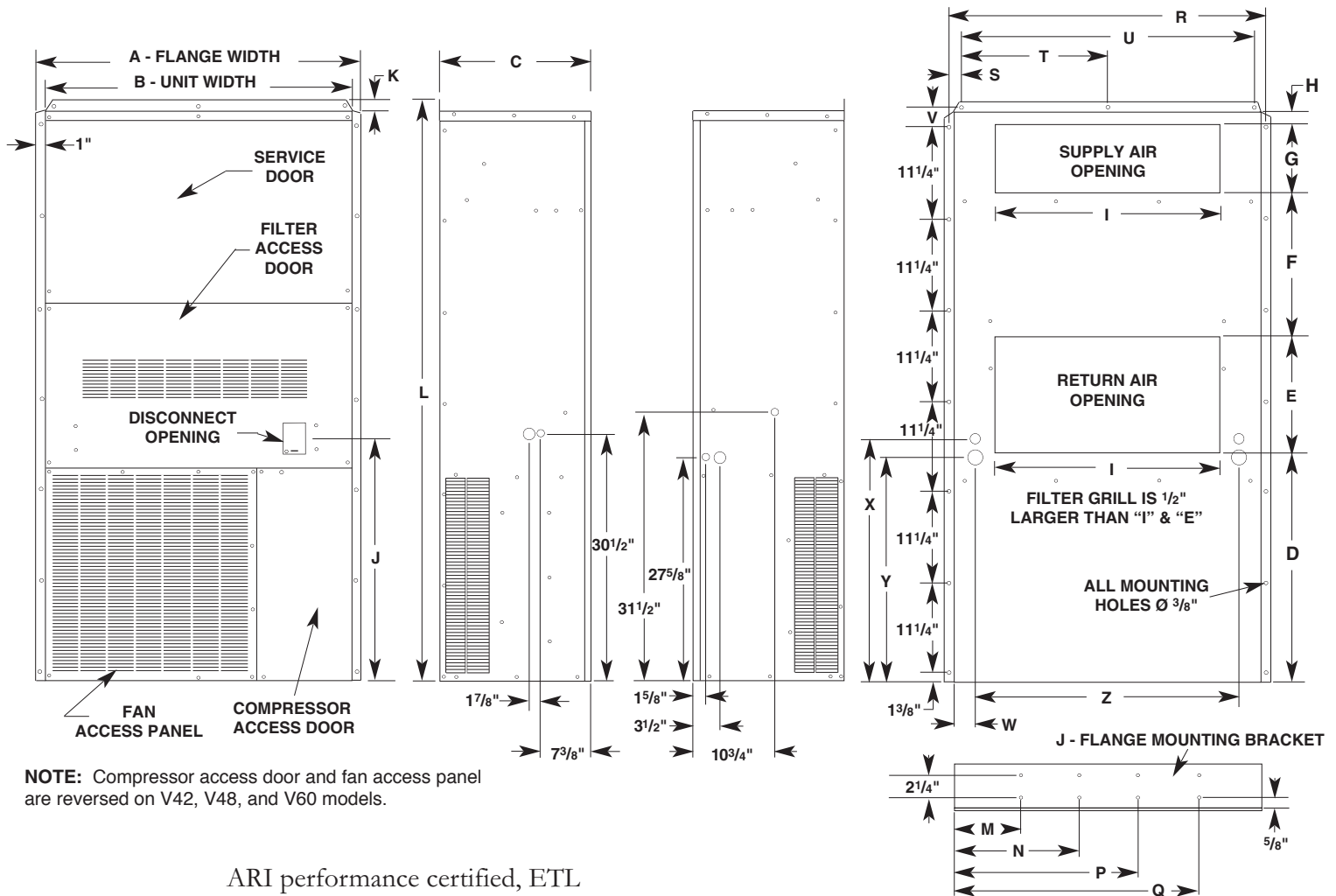
* BTU output and current based on 240 volts operation for 208 to 230 volts models and 480 volts for 460 volt models.

* BTU multiplier for 230 volts operation — multiply the listed output by 0.92; for 208 volts operation multiply by 0.75; for 460 volts operation multiply by 0.92.

* Current multiplier — for 230 volts operation multiply the listed amps by 0.96; for 208 volts operation multiply by 0.87; for 460 volts operation multiply by 0.96.

UNIT DIMENSIONS

MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z
V24	36	34	18 ⁵ / ₈	28 ¹ / ₁₆	12	20 ¹ / ₂	8	17 ⁷ / ₈	20	28 ⁹ / ₁₆	1 ¹ / ₈	71 ¹ / ₂	2 ¹ / ₂	10 ¹ / ₂	18 ¹ / ₂	26 ¹ / ₂	34 ⁷ / ₈	1 ¹ / ₈	16	32	1 ¹⁵ / ₁₆	2 ⁹ / ₁₆	29 ¹ / ₂	27 ¹ / ₈	27 ⁵ / ₈
V30/36	40	38	18 ⁵ / ₈	28 ¹ / ₂	14	18	8	17 ⁷ / ₈	28	28 ⁹ / ₁₆	1 ¹ / ₈	71 ¹ / ₂	2 ¹ / ₂	10 ¹ / ₂	18 ¹ / ₂	26 ¹ / ₂	39	1 ¹ / ₄	18 ¹ / ₄	36 ³ / ₈	2	2 ⁹ / ₁₆	29 ¹ / ₂	27 ¹ / ₈	31 ⁵ / ₈
V48 V60	43 ¹ / ₈	41	24	27 ¹ / ₂	16	30	10	2 ¹ / ₄	30	36 ¹ / ₂	1 ¹ / ₈	87	2 ¹ / ₂	10 ¹ / ₂	18 ¹ / ₂	26 ¹ / ₂	42	1 ¹ / ₈	19 ³ / ₄	39 ¹ / ₂	6 ¹ / ₂	3 ³ / ₄	29 ¹ / ₂	27 ¹ / ₈	33 ¹ / ₂



ARI performance certified, ETL

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