

**R410A
WALLMOUNTS**

V Series Air Conditioners H Series Heat Pumps

High Efficiency



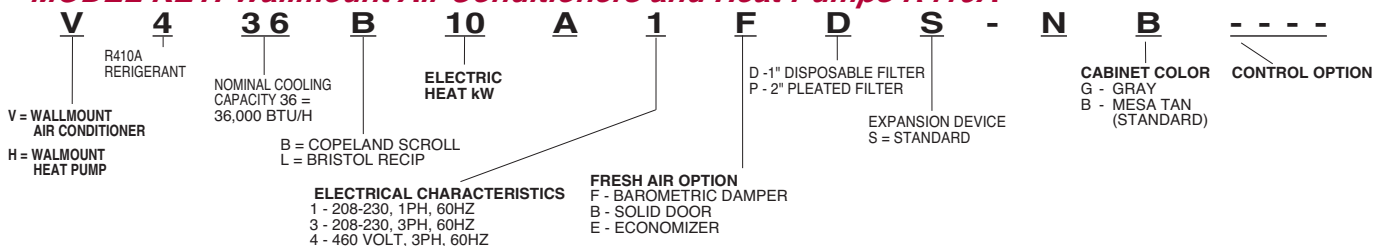
PERFORMANCE:

- Efficiency ratings up to 9.2 EER and 3.2 COP.
- Sizes range from 1.5/2.0 to 5 tons.
- Electric heat available from 5 kW to 18 kW.
- Designed for ducted or non-ducted applications.
- AHRI performance certified, ETL safety approved.

FEATURES:

- R410A Refrigerant
- All major components can be accessed from the front, offering the maximum serviceability.
- Choices of scroll or recip. compressors for V Series.
- 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 optional LP, HP switches. (HP standard on heat pump models)
- 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 and Heat Pumps R410A



V Series Air Conditioners

MODEL SPECIFICATIONS (SCROLL)										
MODEL	V418B**A1	V424B**A1	V430B**A1	V430B**A3	V436B**A1	V436B**A3	V436B**A4	V448B**A1	V448B**A3	
COOLING CAPACITY ①	16,500	23,600	29,400	29,400	35,000	35,000	35,000	47,000	47,000	
EER ①	9.2									
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									
RATED LOAD AMPS	9.0	12.8	16.0	10.0	17.9	13.2	6.0	21.4	14.5	
OUTDOOR FAN DATA										
HP, RPM	1/5,1075				1/5,1075		1/5,1075	1/2,1100	1/2,1100	
FULL LOAD AMPS	1.5				1.5		0.7	2.5	2.5	
FAN - DIA/CFM	20"/2000				20"/2000		20"/2000	22"/3000	22"/3000	
BLOWER DATA										
HP, RPM	1/6,1075	1/6,1075	1/3,1075	1/3,1075	1/3,1075	1/3,1075	1/3,1075	1/2,1100	1/2,1100	
FULL LOAD AMPS	1.5	1.5	2.5	2.5	2.5	2.5	1.2	3.5	3.5	
RATED CFM/ESP ②	615/0.35	780/0.15	1100/0.20	1100/0.20	1150/0.20	1150/0.20	1150/0.20	1700/0.20	1700/0.20	
VENTILATION PACKAGE										
BAROMETRIC DAMPER	ADJUSTABLE BAROMETRIC DAMPER STANDARD ON ALL									
BAROMETRIC FILTER	PERMANENT WASHABLE 7" X 29" X 1/4"									
MAX FRESH AIR - CFM/% ③	175/25%	195/25%	288/25%	288/25%	353/25%	353/25%	353/25%	425/25%	425/25%	
RETURN AIR FILTER	25" X 16" X 1" DISPOSABLE							20" X 30" X 1" DISPOSABLE		
WEIGHT - SHIPPING/NET	305/282	305/282	349/321	349/321	352/324	352/324	352/324	524/494	524/494	

MODEL SPECIFICATIONS (SCROLL)				
MODEL	V448B**A4	V460B**A1	V460B**A3	V460B**A4
COOLING CAPACITY ①	47,000	55,000	55,000	55,000
EER ①	9.2			
VOLTS / PHASE / HERTZ	460/3/60	208-230/1/60	208-230/3/60	460/3/60
COMPRESSOR DATA				
TYPE	SCROLL			
RATED LOAD AMPS	7.1	30.1	20.5	9.6
OUTDOOR FAN DATA				
HP, RPM	1/2,1100	1/2,1100	1/2,1100	1/2,1100
FULL LOAD AMPS	1.5	2.5	2.5	1.5
FAN - DIA/CFM	22"/3000	22"/3000	22"/3000	22"/3000
BLOWER DATA				
HP, RPM	1/2,1100	3/4,1100	3/4,1100	3/4,1100
FULL LOAD AMPS	2.0	4.0	4.0	2.2
RATED CFM/ESP ②	1700/0.20	1980/0.20	1980/0.20	1980/0.20
VENTILATION PACKAGE				
BAROMETRIC DAMPER	ADJUSTABLE BAROMETRIC DAMPER STANDARD ON ALL			
BAROMETRIC FILTER	PERMANENT WASHABLE 7" X 29" X 1/4"			
MAX FRESH AIR - CFM/% ③	425/25%	495/25%	495/25%	495/25%
RETURN AIR FILTER	20" X 30" X 1" DISPOSABLE			
WEIGHT - SHIPPING/NET	524/494	545/515	545/515	545/515

MODEL SPECIFICATIONS (RECIP)				
MODEL	V418L**A1	V424L**A1	V430L**A1	V436L**A1
COOLING CAPACITY ①	16,500	23,600	29,400	35,500
EER ①	9.2			
VOLTS / PHASE / HERTZ	208-230/1/60			
COMPRESSOR DATA				
TYPE	RECIP			
RATED LOAD AMPS	7.4	10.6	13	14.5
OUTDOOR FAN DATA				
HP, RPM	1/5,1075			
FULL LOAD AMPS	1.5			
FAN - DIA/CFM	20"/2000			
BLOWER DATA				
HP, RPM	1/6,1075	1/6,1075	1/3,1075	1/3,1075
FULL LOAD AMPS	1.5	1.5	2.5	2.5
RATED CFM/ESP ②	720/0.15	780/0.15	115/0.20	1150/0.20
VENTILATION PACKAGE				
BAROMETRIC DAMPER	ADJUSTABLE BAROMETRIC DAMPER STANDARD ON ALL			
BAROMETRIC FILTER	PERMANENT WASHABLE 7" X 29" X 1/4"			
MAX FRESH AIR - CFM/% ③	175/25%	195/25%	288/25%	288/25%
RETURN AIR FILTER	25" X 16" X 1" DISPOSABLE			
WEIGHT - SHIPPING/NET	316/294	316/294	350/322	353/325

① Rated in accordance with ANSI/ARI standard 390-2003

② Includes factory-installed filters and wet coils.

③ CFM with standard return air filter grille in place.

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

V Series Air Conditioners

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 CIRCUIT 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			
V418B00A1 5 10	208-230/1	9 22 43	1 1 1	11 27 53	15 30 60	14 10 6	14 10 10											
V424B00A1 5 10	208-230/1	16 22 43	1 1 1	19 27 53	30 30 60	14 10 6	14 10 10	11	52	15	60	14	6	14	10			
V430B00A1 5 10 15	208-230/1	20 23 44 65	1 1 1 1 _{OR2}	24 29 55 81	40 30 60 100	12 10 6 4	12 10 10 8											
V430B00A3 6 11	208-230/3	14 17 29	1 1 1	17 21 36	25 25 40	14 12 8	14 12 10											
V436B00A1 5 10 15	208-230/1	22 23 44 65	1 1 1 1 _{OR2}	26 29 55 81	40 30 60 100	10 10 6 4	10 10 10 8	29	78	30	100	10	4	10	8			
V436B00A3 6 11	208-230/3	17 17 29	1 1 1	21 21 36	30 25 40	12 12 8	12 12 10											
V436B00A4 6 11 15	460/3	9 16 28 37	1 1 1 1	10 19 34 46	15 20 40 50	14 14 10 8	14 14 10 10											
V448B00A1 5 10 15	208-230-1	27 27 45 66	1 1 1 1 _{OR2}	33 30 56 82	50 30 60 100	10 10 6 4	10 10 10 8	30	78	30	100	10	4	10	8			
V448B00A3 6 11 18	208-230/3	21 21 30 47	1 1 1 1	24 22 37 58	30 25 40 60	12 12 8 6	12 12 10 10											
V448B00A4 6 11 15	460/3	10 16 28 37	1 1 1 1	11 19 34 46	15 20 40 50	14 14 10 8	14 14 10 10											
V460B00A1 5 10 15	208-230/1	38 38 47 68	1 1 1 1 _{OR2}	45 31 57 83	75 35 60 100	8 10 6 4	8 10 10 8	31	78	35	100	10	4	10	8			
V460B00A3 6 11 18	208-230/3	28 28 31 48	1 1 1 1	33 23 38 59	50 25 40 60	10 12 8 6	10 12 10 10											
V460B00A4 6 11 15	460/3	12 16 28 37	1 1 1 1	15 19 34 46	20 20 40 50	14 14 10 8	14 14 10 10											
V418L00A1 5 10	208-230/1	10 22 43	1 1 1	12 27 53	15 30 60	14 10 6	14 10 10											
V424L00A1 5 10	208-230/1	14 22 43	1 1 1	16 27 53	25 30 60	14 10 6	14 10 10											
V430L00A1 5 10	208-230/1	17 23 44	1 1 1	20 29 55	30 30 60	12 10 6	12 10 10											
V436L00A1 5 10 15	208-230/1	18 23 44 65	1 1 1 1 _{OR2}	22 29 55 81	30 40 60 100	12 10 6 4	12 10 10 8	29	78	30	100	10	4	10	8			

[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

MODEL	AMBIENT TEMPERATURE (°F)			
	95		82	
	TOTAL	SENSIBLE	TOTAL	SENSIBLE
V418B	16,500	12,000	18,000	13,000
V424B	23,600	17,000	25,800	17,500
V430B	29,400	21,100	32,800	22,300
V436B	35,000	26,000	38,200	25,500
V448B	47,000	34,200	50,100	34,000
V460B	55,000	40,000	60,000	40,500
V418L	16,500	12,500	18,000	13,000
V424L	23,600	17,500	26,000	17,650
V430L	29,400	20,400	32,800	21,300
V436L	35,500	26,000	38,300	26,000

H Series Heat Pumps

MODEL SPECIFICATIONS

MODEL	H424B**A1	H430B**A1	H430B**A3	H436B**A1	H436B**A3	H436B**A4	H448B**A1	H448B**A3	H448B**A4	H460B**A1	H460B**A3	H460B**A4
COOLING CAPACITY ①	23,600	29,400	29,400	35,000	35,000	35,000	47,000	47,000	47,000	55,000	55,000	55,000
EER ①	9.2											
HEATING CAPACITY ①	24000	29000	29000	34300	34300	34300	46000	46000	46000	55000	55000	55000
COP ①	2.9	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.0	3.0	3.0
VOLTS / PHASE / HZ	208-230/1/160	208-230/1/60	208-230/3/360	208-230/1/60	208-230/3/60	460/3/60	208-230/1/60	208-230/3/60	460/3/60	208-230/1/60	208-230/3/60	460/3/60
COMPRESSOR DATA												
TYPE	SCROLL											
RATED LOAD AMPS	12.8	16.0	10.0	17.9	13.2	6.0	21.4	14.5	7.1	26.3	15.6	7.8
OUTDOOR FAN DATA												
HP, RPM	1/5, 1075	1/5, 1075	1/5, 1075	1/5, 1075	1/5, 1075	1/5, 1075	1/2, 1100	1/2, 1100	1/2, 1100	1/2, 1100	1/2, 1100	1/2, 1100
FULL LOAD AMPS	1.5	1.5	1.5	1.5	1.5	0.7	2.5	2.5	1.5	2.5	2.5	1.5
FAN - DIA/CFM	20"/2000	20"/2000	20"/2000	20"/2000	20"/2000	20"/2000	22"/3000	22"/3000	22"/3000	22"/3000	22"/3000	22"/3000
BLOWER DATA												
HP/RPM	1/6, 1075	1/3, 10075	1/3, 1075	1/3, 1075	1/3, 1075	1/3, 1075	1/2, 1100	1/2, 1100	1/2, 1100	3/4, 1100	3/4, 1100	3/4, 1100
FULL LOAD AMPS	1.5	2.5	2.5	2.5	2.5	1.2	3.5	3.5	2.0	4.0	4.0	2.2
RATED CFM/ESP ②	780/0.15	1100/0.20	1100/0.20	1150/0.20	1150/0.20	1150/0.20	1700/0.20	1700/0.20	1700/0.20	1980/0.20	1980/0.20	1980/0.20
VENTILATION PACKAGE												
BAROMETRIC DAMPER	ADJUSTABLE BAROMETRIC DAMPER STANDARD ON ALL MODELS											
BAROMETRIC FILTER	PERMANENT WASHABLE 7" X 29" X 1/4"											
MAX FRESH AIR - CFM% ③	195/25%	288/25%	288/25%	353/25%	353/25%	353/25%	425/25%	425/25%	425/25%	495/25%	495/25%	495/25%
RETURN AIR FILTER	25" X 16" X 1" DISPOSABLE						20" X 30" X 1" DISPOSABLE					
WEIGHT-SHIPING / NET	305 / 282	349 / 321	349 / 321	352 / 324	352 / 324	352 / 324	524 / 494	524 / 494	524 / 494	545 / 515	545 / 515	545 / 515

① Rated in accordance with ANSI/ARI standard 390-2003.

② Includes factory-installed filters and wet coils.

③ CFM with standard return air filter grille in place.

FACTORY OR FIELD-INSTALLED ELECTRIC HEATERS

HEATER MODEL	BTU* OUTPUT	* AMPS	SHIP WT	APPROVED UNIT AND HEATER COMBINATION											
				24-1	30-1	36-1	48-1	60-1	30-3	36-3	48-3	60-3	36-4	48-4	60-4
EGH05B1-HP	17000	20.8	15	X	X	X	X	X							
EGH10B1-HP	34000	41.6	16	X	X	X	X	X							
EGH15B1-HP	51000	62.5	18			X	X	X							
EGH06B3-HP	20000	14.4	15						X	X	X	X			
EGH11B3-HP	37000	26.5	18						X	X	X	X			
EGH18B3-HP	61000	43.3	18								X	X			
EGH06D4-HP	20000	7.2	15										X	X	X
EGH11D4-HP	37000	13.2	18										X	X	X
EGH15D4-HP	51000	18.0	18											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.

H Series Heat Pumps

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 CIRCUIT 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
H424B00A1 5 10	208-230/1	16 37 57	1 1 1	19 40 61	30 50 75	14 8 6	14 10 8	19	52	30	60	14	6	14	10
H430B00A1 5 10 15	208-230/1	20 41 62 83	1 1 1 10R2	24 45 66 87	40 60 75 100	12 8 4 3	12 10 8 8	45	78	60	100	8	4	10	8
H430B00A3 6 11	208-230/3	14 28 41	1 1 1	17 31 43	25 40 50	14 10 8	14 10 10								
H436B00A1 5 10 15	208-230/1	22 43 64 84	1 1 1 10R2	26 47 68 89	40 60 75 100	10 8 4 3	10 10 8 8	47	78	60	100	8	4	10	8
H436B00A3 6 11	208-230/3	17 32 44	1 1 1	21 35 47	30 40 60	12 10 8	12 10 10								
H436B00A4 6 11 15	460/3	9 23 35 45	1 1 1 1	10 25 37 46	15 30 40 50	14 12 8 8	14 12 10 10								
H448B00A1 5 10 15	208-230/1	27 48 69 90	1 1 1 10R2	33 54 74 95	50 60 75 100	10 6 4 3	10 10 8 8	54	78	60	100	6	4	10	8
H448B00A3 6 11 18	208-230/3	21 35 47 64	1 1 1 1	24 39 51 67	30 50 60 75	12 8 6 4	12 10 10 8								
V448B00A4 6 11 15	460/3	21 24 36 46	1 1 1 1	11 26 38 48	15 30 40 50	14 10 8 8	14 10 10 10								
H460B00A1 5 10 15	208-230/1	38 58 79 100	1 1 1 10R2	45 66 87 108	75 75 100 125	8 4 3 2	8 8 8 6	61	78	75	100	6	4	8	8
H460B00A3 6 11 18	208-230/3	28 42 54 71	1 1 1 1	33 48 60 76	50 60 75 100	10 8 6 4	10 10 8 8								
H460B00A4 6 11 15	460/3	12 27 39 48	1 1 1 1	15 29 41 51	20 30 50 60	14 10 8 8	14 10 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.

COOLING PERFORMANCE (Btu/H)

MODEL	AMBIENT TEMPERATURE (°F)			
	95		82	
	TOTAL	SENSIBLE	TOTAL	SENSIBLE
H424B	23,600	17,000	25,800	17,500
H430B	29,400	21,000	32,800	22,300
H436B	35,000	26,000	38,200	25,500
H448B	47,000	34,200	50,100	34,000
H460B	55,000	40,000	60,000	40,500

HEATING PERFORMANCE (Btu/H)

MODEL	AMBIENT TEMPERATURE (°F)	
	47	17
	H424B	24,000
H430B	29,000	18,000
H436B	34,300	21,000
H448B	46,000	27,000
H460B	55,000	33,000

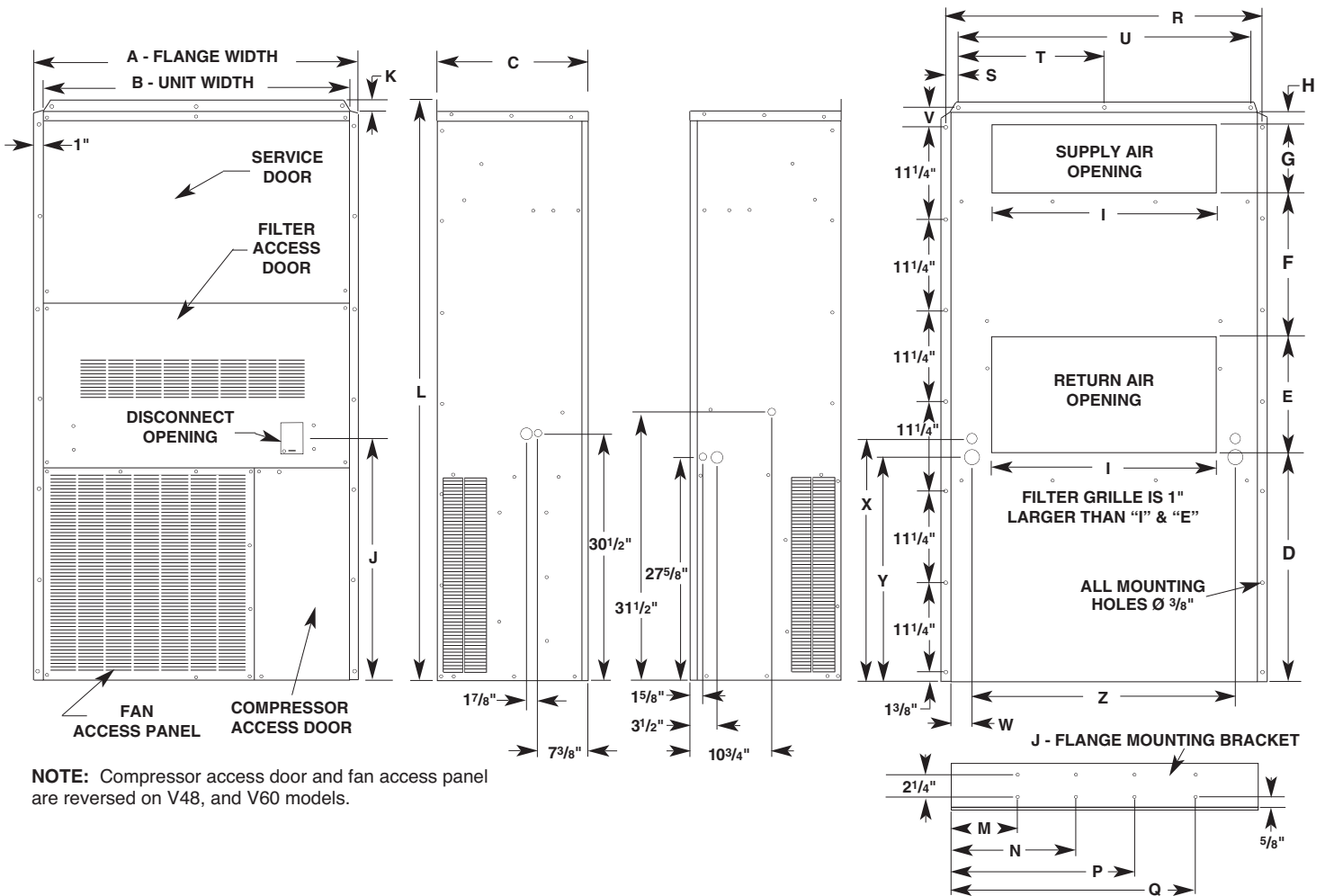
V & H Series

ADDITIONAL OPTIONAL FEATURES

- HIGH & LOW PRESSURE SWITCHES
- LOW AMBIENT CONTROLS
- ECONOMIZERS
- LEAD-LAG CONTROLLERS (NOT FOR HEAT PUMP MODELS)
- RETURN AND SUPPLY GRILLES
- 4 & 5 TON MODELS WITH 3 TON BACK PLATE
- 2" PLEATED FILTERS

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
18/24	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	11 ⁷ / ₈	16	32	1 ¹⁵ / ₁₆	2 ⁹ / ₁₆	29 ¹ / ₂	27 ¹ / ₈	27 ⁵ / ₈
30/36	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	11 ¹ / ₄	18 ¹ / ₄	36 ³ / ₈	2	2 ⁹ / ₁₆	29 ¹ / ₂	27 ¹ / ₈	31 ⁵ / ₈
48/60	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	11 ⁷ / ₈	19 ³ / ₄	39 ¹ / ₂	6 ¹ / ₂	3 ³ / ₄	29 ¹ / ₂	27 ¹ / ₈	33 ¹ / ₂



NOTE: Compressor access door and fan access panel are reversed on V48, and V60 models.



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