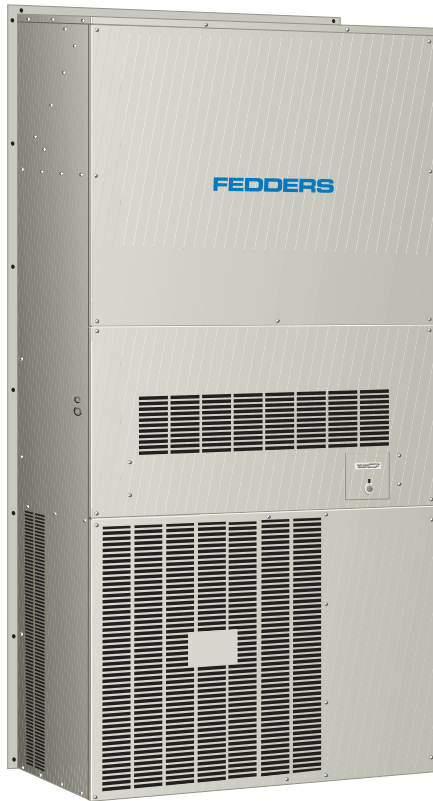


V High Efficiency Series Wallmounted Air Conditioners



PERFORMANCE:

Efficiency rating of 10.00 SEER

Models available For 208-230 volt 1-phase, and 230 volt or 460 volt 3-phase

Electric heat available from 5-15kw

Designed for ducted or non-ducted applications

ARI performance certified, U.L. and C-U.L. 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, dry alarm contacts for dirty filter or service

Optional factory installed, fully modulating economizer or motorized dampers with washable aluminum filter and built-in relief for up to 100% fresh air

Plug-in control options and heater receptacle minimizes field wiring of 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 available : 1" disposable (standard) or 2" pleated (optional)

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

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

Phase monitor is standard in all 3 phase units

Applications include telecom, schools, offices and modular buildings

V High Efficiency Series

MODEL SPECIFICATIONS WITH RECIPROCATING COMPRESSOR

MODEL V	18A-1	24A-1	30A-1	36A-1	24A-3	30A-3	36A-3	24A-4	30A-4	36A-4
COOLING CAPACITY	18,000	24,000	30,000	35,000	24,000	30,000	35,000	24,000	30,000	35,000
SEER ^①	10.0									
VOLTS/PHASE/HERTZ ^①	208-230 /1/60				208-230 /3/60			460/3/60		
COMPRESSOR DATA										
TYPE	RECIPROCATING									
RATED LOAD AMPS	9.6	10.9	15.3	16.6	7.5	10	11.4	3.9	4.8	4.8
LOCK ROTOR AMPS	49	56	75	96	51	68	75	25	34	40
CRANKCASE HEATER	OPTIONAL INTERNAL 40 WATT PTC									
FAN DATA										
OUTDOOR MOTOR HP/RPM	1/5 1075									
FLA	1.5									
FAN BLADE DIA/CFM	20" - 2600									
BLOWER DATA										
INDOOR MOTOR HP/RPM	1/6 / 1075		1/3 / 1075		1/6 / 1075		1/3 / 1075			
FLA	1.5		2.5		1.5		2.5		1.2	
RATED CFM/ESP ^②	600 / .28	750 / .26	1000 / .35	1150 / .20	750 / .26	1000 / .35	1150 / .20	750 / .26	1000 / .35	1150 / .20
VENTILATION PACKAGES										
BAROMETRIC DAMPER	ADJUSTABLE BAROMETRIC DAMPER STANDARD ON ALL MODELS									
BAROMETRIC FILTER	WASHABLE ALUMINUM 7" X 29" X 1/4"									
MAX FRESH AIR CFM%	114 / 19%	160 / 20%	190 / 19%	250 / 21%	160 / 20%	190 / 19%	250 / 21%	160 / 20%	190 / 19%	250 / 21%
ECONOMIZER (OPTIONAL)	MODULATING ECONOMIZER SYSTEM WITH BUILT IN RELIEF DAMPER									
FRESH AIR RANGE ^③	0 - 100%									
ECONO FILTER	WASHABLE ALUMINUM 7" X 29" X 1"									
RETURN AIR FILTER	25" X 16" X 1" DISPOSABLE									
WEIGHT SHIPPING/NET	315/293	316/294	350/322	353/325	316/294	350/322	353/325	316/294	350/322	353/325

MODEL SPECIFICATIONS WITH SCROLL COMPRESSOR

MODEL V	18B-1	24B-1	30B-1	36B-1	24B-3	30B-3	36B-3	24B-4	30B-4	36B-4
COOLING CAPACITY	18,000	24,000	30,000	35,000	24,000	30,000	35,000	24,000	30,000	35,000
SEER ^①	10.0									
VOLTS/PHASE/HERTZ ^①	208-230 /1/60				208-230 /3/60			460/3/60		
COMPRESSOR DATA										
TYPE	SCROLL									
RATED LOAD AMPS	10.0	11.4	15.7	15.7	7.85	10	11.4	3.9	5	5.7
LOCK ROTOR AMPS	42	54	73	93	45	63	77	22.4	31	39
CRANKCASE HEATER	N / A									
FAN DATA										
MOTOR HP/RPM	1/5 1075									
FLA	1.5									
FAN BLADE DIA/CFM	20" - 2600									
BLOWER DATA										
MOTOR HP/RPM	1/6 / 1075		1/3 / 1075		1/6 / 1075		1/3 / 1075			
FLA	1.5		2.5		1.5		2.5		1.2	
RATED CFM/ESP ^②	600 / .28	750 / .26	1000 / .35	1150 / .20	750 / .26	1000 / .35	1150 / .20	750 / .26	1000 / .35	1150 / .20
VENTILATION PACKAGES										
BAROMETRIC DAMPER	ADJUSTABLE BAROMETRIC DAMPER STANDARD ON ALL MODELS									
BAROMETRIC FILTER	WASHABLE ALUMINUM 7" X 29" X 1/4"									
MAX FRESH AIR CFM%	114 / 19%	160 / 20%	190 / 19%	250 / 21%	160 / 20%	190 / 19%	250 / 21%	160 / 20%	190 / 19%	250 / 21%
ECONOMIZER (OPTIONAL)	MODULATING ECONOMIZER SYSTEM WITH BUILT IN RELIEF DAMPER									
FRESH AIR RANGE ^③	0 - 100%									
ECONO FILTER	WASHABLE ALUMINUM 7" X 29" X 1"									
RETURN AIR FILTER	25" X 16" X 1" DISPOSABLE									
WEIGHT SHIPPING/NET	319/297	322/300	347/319	347/319	322/300	347/319	347/319	322/300	347/319	347/319

① Rated in accordance with DOE and ARI Test standards. ② Includes factory-installed filters and wet coils. ③ CFM with standard return air filter grille in place. All specifications contained in this brochure are subject to change without notice.

FACTORY OR FIELD - INSTALLED ELECTRIC HEATERS

(1) MODEL NO. AND ELECTRIC HEATER KW	VOLTS/ PHASE 60 HERTZ	(6) (2) MAX. UNIT AMPS	NO. OF FIELD POWER CKTS.	SINGLE-FIELD CIRCUIT				DUAL-FIELD CIRCUIT							
				MINIMUM WIRE AMPACITY	(3) MAX. FUSE OR HACR BREAKER	(7) (8) FIELD POWER WIRE SIZE	GROUND WIRE SIZE	MIN. WIRE AMPACITY CKT1 CKT2	(3) MAX. FUSE OR HVCR BREAKER CKT1 CKT2	(4) (5) FIELD POWER WIRE SIZE CKT1 CKT2	GROUND WIRE SIZE CKT1 CKT2				
V18A00	208-240/1	12.5	1	15	20	12	12	-	-	-	-	-	-	-	-
03		12.5	1	15	20	12	12	-	-	-	-	-	-	-	-
05		22.2	1	28	30	10	10	-	-	-	-	-	-	-	-
07.5		30.6	1	38	40	8	10	-	-	-	-	-	-	-	-
10		43.1	1	54	60	6	10	-	-	-	-	-	-	-	-
V24A00	208-240/1	13.8	1	17	25	10	10	-	-	-	-	-	-	-	-
03		13.8	1	17	25	10	10	-	-	-	-	-	-	-	-
05		22.2	1	28	30	10	10	-	-	-	-	-	-	-	-
07.5		30.6	1	38	40	8	10	-	-	-	-	-	-	-	-
10		43.1	1	54	60	6	10	-	-	-	-	-	-	-	-
V30A00	208-240/1	19.3	1	23	35	10	10	-	-	-	-	-	-	-	-
03		19.3	1	23	35	10	10	-	-	-	-	-	-	-	-
05		23.3	1	29	35	10	10	-	-	-	-	-	-	-	-
07.5		31.7	1	40	45	8	10	-	-	-	-	-	-	-	-
10		44.2	1	55	60	6	10	-	-	-	-	-	-	-	-
15		65.0	2	81	90	4	8	29	55	35	60	8	6	10	10
V36A00	208-240/1	20.6	1	25	40	8	10	-	-	-	-	-	-	-	-
03		20.6	1	25	40	8	10	-	-	-	-	-	-	-	-
05		23.3	1	29	40	8	10	-	-	-	-	-	-	-	-
07.5		31.7	1	40	45	8	10	-	-	-	-	-	-	-	-
10		44.2	1	55	60	6	10	-	-	-	-	-	-	-	-
15		65.0	2	81	90	4	8	29	55	40	60	8	6	10	10
V24A00	208-240/3	10.4	1	12	20	12	12	-	-	-	-	-	-	-	-
03		10.4	1	12	20	12	12	-	-	-	-	-	-	-	-
06		15.8	1	20	25	10	10	-	-	-	-	-	-	-	-
09		23.1	1	29	30	8	10	-	-	-	-	-	-	-	-
V30A00	208-240/3	14.0	1	17	25	10	10	-	-	-	-	-	-	-	-
03		14.0	1	17	25	10	10	-	-	-	-	-	-	-	-
06		16.9	1	21	25	10	10	-	-	-	-	-	-	-	-
09		24.2	1	30	35	8	10	-	-	-	-	-	-	-	-
11		30.1	1	38	40	8	10	-	-	-	-	-	-	-	-
15		38.6	1	48	50	8	10	-	-	-	-	-	-	-	-
V36A00	208-240/3	15.4	1	18	25	10	10	-	-	-	-	-	-	-	-
03		15.4	1	18	25	10	10	-	-	-	-	-	-	-	-
06		16.9	1	21	25	10	10	-	-	-	-	-	-	-	-
09		24.2	1	30	35	8	10	-	-	-	-	-	-	-	-
11		30.1	1	38	40	8	10	-	-	-	-	-	-	-	-
15		38.6	1	48	50	8	10	-	-	-	-	-	-	-	-
V24A00	460/3	5.9	1	7	15	14	14	-	-	-	-	-	-	-	-
03		5.9	1	7	15	14	14	-	-	-	-	-	-	-	-
06		8.5	1	11	15	14	14	-	-	-	-	-	-	-	-
09		12.1	1	15	20	12	12	-	-	-	-	-	-	-	-
V30A00	460/3	6.8	1	8	15	14	14	-	-	-	-	-	-	-	-
03		6.8	1	8	15	14	14	-	-	-	-	-	-	-	-
06		8.5	1	11	15	14	14	-	-	-	-	-	-	-	-
09		12.1	1	15	20	12	12	-	-	-	-	-	-	-	-
11		14.5	1	18	20	12	12	-	-	-	-	-	-	-	-
15		19.4	1	24	25	10	10	-	-	-	-	-	-	-	-
V36A00	460/3	6.8	1	8	15	14	14	-	-	-	-	-	-	-	-
03		6.8	1	8	15	14	14	-	-	-	-	-	-	-	-
06		8.5	1	11	15	14	14	-	-	-	-	-	-	-	-
09		12.1	1	15	20	12	12	-	-	-	-	-	-	-	-
11		14.5	1	18	20	12	12	-	-	-	-	-	-	-	-
15		19.4	1	24	25	10	10	-	-	-	-	-	-	-	-

- (1) Heater data is based on 240 and 480 volts AC.
- (2) Maximum unit amps for 208 or 460 volt operation may vary slightly; wire and over current protector sizes will not change from suggested sizes.
- (3) Maximum recommended size of "Time Delay" fuse or HACR circuit breaker.
- (4) Power supply wire size and ground wire sizes are based on AWG, 75C rise, NEC Article 310 and table 310-16.
- (5) Grounded conductors may be two sizes smaller than ungrounded conductors.
- (6) Internal circuit breakers are required when maximum unit's current exceeds 48 amps. Circuit breakers are optional at extra cost on all units.
- (7) For single power supply conductor, sized per NEC table 310-16.
- (8) Power supply wire 75 C rated COPPER CONDUCTORS ONLY. Any alternate wiring materials/methods MUST meet the National Electric Code.

FACTORY OR FIELD-INSTALLED ELECTRIC HEATERS

HEATER MODEL	BTU* OUTPUT	* AMPS	SHIPPING WEIGHT	APPROVED UNIT AND HEATER COMBINATION										
				18-1	24-1	30-1	36-1	24-3	30-3	36-3	24-4	30-4	36-4	
EGA05B1	17,062	20.8	15	X	X	X	X							
EGA07B1	25,594	31.2	16	X	X	X	X							
EGA10B1	34,125	41.6	16	X	X	X	X							
EGA15B1	51,187	62.5	18			X	X							
EGH03B3	10,239	7.2	14					X	X	X				
EGH06B3	20,478	14.4	15					X	X	X				
EGH09B3	30,717	21.7	16					X	X	X				
EGH11B3	37,543	26.5	18						X	X				
EGH15B3	51,187	36.1	18						X	X				
EGH03D4	10,239	3.6	15								X	X	X	
EGH06D4	20,478	7.2	15								X	X	X	
EGH09D4	30,717	10.8	16								X	X	X	
EGH11D4	37,543	13.2	18									X	X	
EGH15D4	51,187	18.0	18									X	X	

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

* BTU multiplier for 230 volts operation-multiply the listed output by .92, for 208 volts operation multiply by .75, for 460 volts operation multiply by .92.

* Current multiplier - for 230 volts operation multiply the listed amps by .96, for 208 volts operation multiply by .87, for 460 volts operation multiply by .96.

COOLING PERFORMANCE

UNIT	A.R.I. CERTIFIED RATING				TEMPERATURES IN (°F.) COOLING DATA IN M.B.T.U.H	
		BTUH	SEER	CFM	82	95
18A / 18B	TOTAL	18,000	10.0	600	19.0	18.0
	SENSIBLE				13.5	13.5
	WATTS (KW)				1.9	2.1
24A / 24B	TOTAL	24,000	10.0	750	25.0	24.0
	SENSIBLE				15.8	15.4
	WATTS (KW)				2.4	2.5
30A / 30B	TOTAL	30,000	10.0	1,000	34.0	30.0
	SENSIBLE				23.1	28.0
	WATTS (KW)				3.1	3.3
36A / 36B	TOTAL	35,000	10.0	1,150	37.5	35.0
	SENSIBLE				25.9	25.0
	WATTS (KW)				3.7	3.98

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

Rated in accordance with A.R.I. and D.O.E. Test Standards.

FACTORY OR FIELD-INSTALLED CONTROL OPTION MODULES

OPTIONS	SERIES	HIGH PRESSURE CONTROL (a)	LOW PRESSURE CONTROL (a)	LOW AMBIENT CONTROL SCROLL COMPRESSOR	LOW AMBIENT CONTROL RECIP. COMPRESSOR	FIRESTAT (a)	COMPRESSOR TIME DELAY	HARD START KIT	DIRTY FILTER ALARM (a)	SMOKE ALARM (a)	ENERGY MONITOR SYSTEM	RELIEF VALVE	COMPRESSOR CUT-OFF	HOLD BACK THERMOSTAT	OUTDOOR STAT	FREEZE STAT	FIELD INSTALLED OPTION KITS
A	(1) V	X															OPT-V-A-KIT
B	(2) V		X														OPT-V-B-KIT
C	(3) V			X													OPT-V-C-KIT
D	(4) V				X												OPT-V-D-KIT
E	V					X											OPT-V-E-KIT
F	V	X	X	X													OPT-V-F-KIT
G	V	X	X		X		X										OPT-V-G-KIT
H	V	X	X	X		X	X										OPT-V-H-KIT
I	V	X	X		X	X											OPT-V-I-KIT
J	V H					X											OPT-V-J-KIT
K	(5) V H						X										OPT-V-K-KIT
L	V H							X									OPT-V-L-KIT
M	(6) V H								X								
N	V									X							OPT-V-N-KIT
O	(9) V														X		OPT-V-O-KIT
P	(10) V															X	OPT-V-P-KIT
Q	V H										X						
R	(7) H											X					OPT-V-R-KIT
S	(8) H												X				OPT-V-S-KIT
T	(1) H		X														OPT-V-T-KIT
U	(1) H			X													OPT-V-U-KIT
V	(1) H				X												OPT-V-V-KIT
W	(1) H		X	X													OPT-V-W-KIT
X	(1) H		X		X												OPT-V-X-KIT
Y	(1) H		X	X		X											OPT-V-Y-KIT
Z	(1) H		X		X	X											OPT-V-Z-KIT

(a) Alarm option will be installed with High Pressure/Low Pressure/Firestat/Dirty Filter Alarm/Smoke Alarm.

(1) High Pressure Control - Standard on Heatpump.

(2) Low Pressure Control - Manual or Auto reset.

(3) Low Ambient Control permits cooling operation down to 0 degrees F for Scroll Compressors.

(4) Low Ambient Control permits cooling operation down to 0 degrees F for Reciprocating Compressors. Crankcase heater installed.

(5) PTCR-3 For 1.5-3 Ton Compressors. PTCR-5 for 3.5-5 Ton Compressors.

(6) Installed in unit return air opening. Factory installed only.

(7) Prevents on H models the simultaneous running of resistance heat and refrigerant heat.

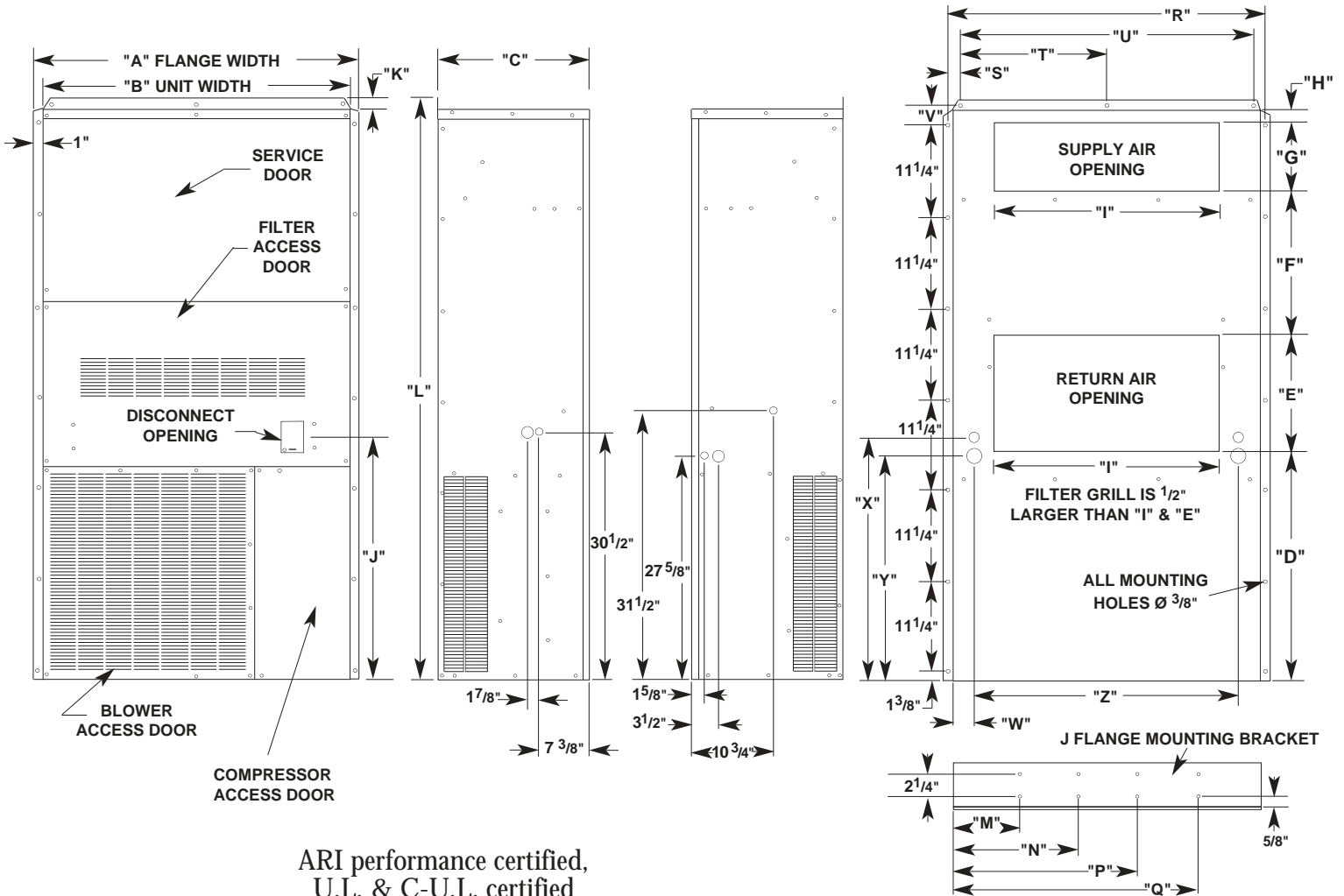
(8) Prevents on H models the resistance heat from running until the outdoor temperature has dropped to the outdoor set point.

(9) Prevents compressor operation after the outdoor thermostat has dropped below the outdoor thermostat set point.

(10) Evaporator Freeze stat H or V.

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
V18/24	36	34	18 5/8	28 1/16	12	20 1/2	8	1 7/8	20	28 9/16	1 1/8	7 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	1 7/8	28	28 9/16	1 1/8	7 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



ARI performance certified,
U.L. & C-U.L. certified



MODEL KEY: Wallmounted Air Conditioners

<p>V VERTICAL PACKAGE</p> <p>36 NOMINAL CAPACITY</p> <p>B COMPRESSOR TYPE A- RECIPROCATING B- SCROLL</p>	<p>10 ELECTRIC HEAT KW</p> <p>A=STANDARD R=REHEAT</p> <p>FRESH AIR OPTION F- BAROMETRIC DAMPER R- ECONOMIZER READY E- ECONOMIZER PACKAGE N- NO ECONOMIZER OR RELIEF OPENING B- BLANK-OFF PLATE P- POWER ROOM VENTILATOR</p>	<p>1 ELECTRICAL CHARACTERISTICS 1- 208-230, 1PH.60HZ 3- 208-230, 3PH.60HZ 4- 460 VOLT, 3PH.60HZ</p>	<p>F FILTER TYPE D-1" DISPOSABLE W-1" ALUMINUM P-2" PLEATED</p> <p>EXPANSION DEVICE P- PISTON TYPE 1- 1.5-3 TON BLEED TXV 2- 1.5-3 TON NONBLEED TXV 3- 5 TON BLEED TX 4- 3-5 TON NONBLEED TXV</p>	<p>P CONTROL OPTION SEE OPTION CHART SECOND LETTER= - (IF NOT USED)</p>	<p>N COIL COATING N- NO COATING 1- EPOXY COATED OUTDOOR COIL 2- HERSITE COATED OUTDOOR COIL 3- HERSITE COATED INDOOR COIL 4- HERSITE COATED OUTDOOR & INDOOR COIL</p>	<p>T CABINET COLOR T- TAUPE G- GRAY P- PRIMER B- MESA TAN W- WHITE</p>
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FEVWS

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