



MULTI-POSITION, VARIABLE-SPEED, ECM-BASED AIR HANDLER WITH INTERNAL EEV, COMFORTNET® AND INVERTER COMPATIBLE 2 TO 5 TONS

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Product Features

- Electronic Expansion Valve (EEV) for cooling and heat pump applications.
- Variable-speed ECM blower motor
- Suitable for operation with inverter-driven products
- ComfortNet® Communicating System compatible
- Provides constant CFM over a wide range of static pressure conditions independent of duct system
- CFM indicator
- Provides adjustable low CFM for efficient fan-only operation
- All-aluminum evaporator coil
- Fault recall of six most recent faults
- Improved humidity and comfort control
- 3 kW 25 kW electric heater kits
- AHRI certified; ETL listed

- Cabinet air leakage less than 2.0% at 1.0 inch H₂O when tested in accordance with ASHRAE standard 193
- Cabinet air leakage less than 1.4% at 0.5 inch H₂O when tested in accordance with ASHRAE standard 193
- Horizontal or vertical configuration capabilities
- 21" depth for easier attic access
- DecaBDE-free thermoplastic drain pan with secondary drain connections
- Screw-less sides and back helps to reduce condensation when installed in humid locations
- Foil-faced insulation covers the internal casing to reduce cabinet condensation
- Galvanized, leather grain-embossed finish
- Glue-less cabinet insulation retention
- Tool-less filter access

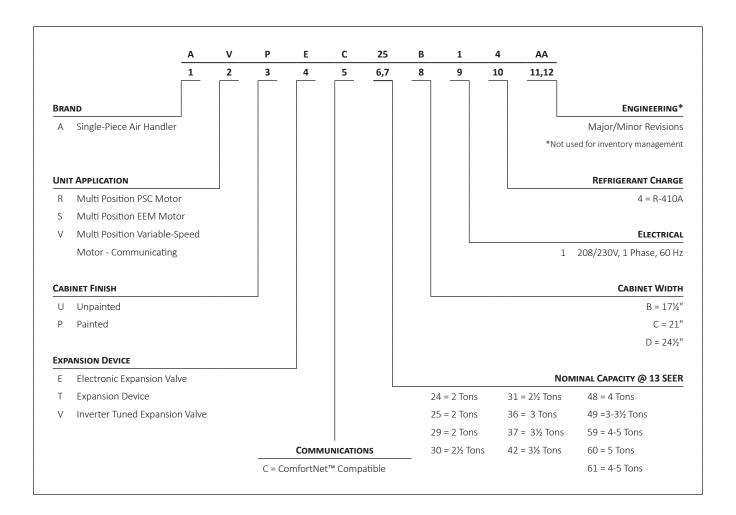


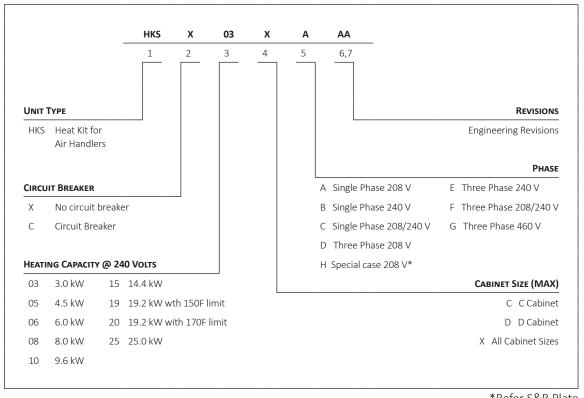




COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV G COMPANY WITH ENVIRONMENTAL SYSTE CERTIFIED BY DNV GL = ISO 14001 =

^{*} Complete warranty details available from your local dealer or at www.amana-hac.com To receive the 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Québec.

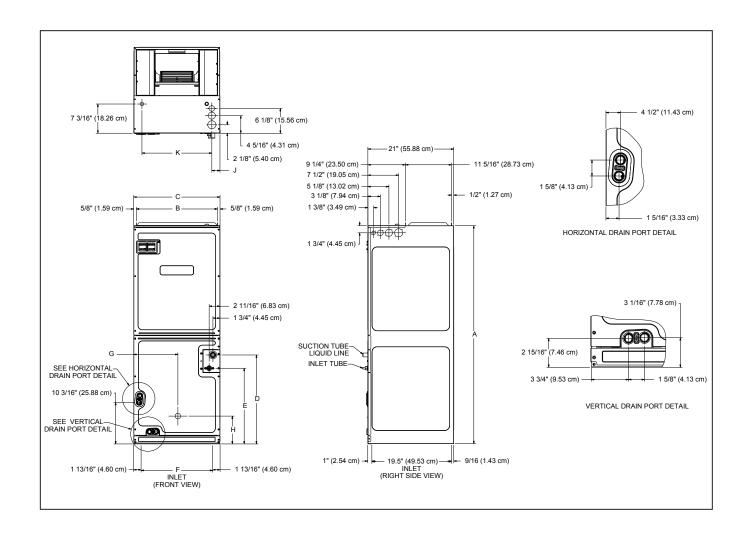




*Refer S&R Plate

	AVPEC25 B14A*	AVPEC37 C14A*	AVPEC59 D14A*	AVPEC61 D14A*
Nominal Ratings				
Cooling (BTU/h)	24,000	36,000	48,000	60,000
CFM (High range)	1200/600	1700/800	1800/1350	2000/1600
BLOWER				
Diameter	105/8"	105/8"	11%"	11%"
Width	6"	10%"	10%"	10%"
Coil Drain Connection FPT	3/4"	3/4"	3/11	3/11
SERVICE VALVE				
Liquid	3/8"	3/8"	3/8"	3/8"
Suction	3/4"	7 ₈ "	7 ₈ "	7 ₈ "
ELECTRICAL DATA				
Voltage	208/240	208/240	208/240	208/240
Electric Heat Capacity (kW)	3, 5, 6, 8, 10	5, 6, 8, 10, 15, 19	5, 6, 8, 10, 15, 20, 25	5, 6, 8, 10, 15, 20, 25
Min Circuit Ampacity	4.9/4.9	6.5/6.5	8.6/8.6	8.6/8.6
Max. Overcurrent Device (Amps)	15/15	15/15	15/15	15/15
Minimum VAC	197	197	197	197
Maximum VAC	253	253	253	253
BLOWER MOTOR				
Full Load Amps (FLA)	3.9	5.2	6.9	6.9
Horsepower (HP)	1/2	3/4	1	1
SHIP WEIGHT (LBS.)	128	150	160	177

Note: Minimum Circuit Ampacity (MCA) and Maximum Overcurrent Protection (MOP) for blower without supplemental heat installed. Refer to unit nameplate and/or Heat Kit Data for specification with approved accessory heaters installed.



MODEL	A	В	С	D	E	F	G	н
AVPEC25B14	537/16	16%	17½	20	21½	141/8	91/8	75/8
AVPEC37C14	537/16	19%	21	21 ¹³ / ₁₆	18%	17 ¹¹ / ₁₆	10 ¹³ / ₁₆	6 ¹³ / ₁₆
AVPEC59D14	537/16	235/16	24½	21½	185/16	213/16	12%	6%
AVPEC61D14	58	235/16	24½	261/8	221/8	213/16	125/16	251/8

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MODEL	5			Airflow CFM							
	STAGE	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9 655 425 1100 710 1370 830	
A)/DEC2ED14A*	High	700	690	690	685	680	670	665	660	655	
AVPEC25B14A*	Low	520	505	495	490	470	455	445	435	425	
	High	1190	1170	1165	1160	1145	1130	1120	1105	1100	
AVPEC37C14A*	Low	820	810	795	785	765	740	730	720	710	
AVDECEOD14A*	High	1445	1440	1430	1415	1405	1390	1380	1375	1370	
AVPEC59D14A*	Low	880	875	870	870	860	845	840	835	830	
	High	1645	1640	1640	1635	1630	1625	1620	1620	1615	
AVPEC61D14A*	Low	1080	1075	1070	1070	1060	1055	1050	1050	1045	

Note: During cooling operation outdoor will determine the indoor airflow

COOLING/HEAT PUMP AIRFLOW TABLE

MODEL	AIRFLOW LEVEL	CFM
AVPEC25B14A*	High	690
AVPEC25B14A*	Low	495
A) /DEC27014A*	High	1165
AVPEC37C14A*	Low	795
A) /DECEOD144*	High	1430
AVPEC59D14A*	Low	870
AVDECC1D14A*	High	1640
AVPEC61D14A*	Low	1070

			CIRCUIT 1			CIRCUIT 2		SINGLE-F	OINT KIT
MODEL		AMPS	MCA ¹	MOP ²	Амрѕ	MCA ¹	MOP ²	MCA ¹	MOP ²
AVPEC25B14AC		0.0/0.0	4.9/4.9	15/15					
HKSX03XC - 208 V		10.8	18	20					
HKSX05XC - 208 V		17.3	27	30					
HKSX06XC - 208 V	No Breaker	21.7	32	35					
HKSX08XC - 208 V		28.9	41	45					
HKSX10XC - 208 V		34.7	48	50					
HKSC05XC - 208 V		17.3	27	30					
HKSC08XC - 208 V	Breaker	28.9	41	45					
HKSC10XC - 208 V		34.7	48	50					
HKSX03XC - 240 V		12.5	21	25					
HKSX05XC - 240 V		20.0	30	30					
HKSX06XC - 240 V	No Breaker	25	36	40					
HKSX08XC - 240 V		33.3	47	50					
HKSX10XC - 240 V		40.0	55	60					
HKSC05XC - 240 V		20.0	30	30					
HKSC08XC - 240 V	Breaker	33.3	47	50					
HKSC10XC - 240 V		40.0	55	60					
AVPEC37C14AC		0.0/0.0	6.5/6.5	15/15					
HKSX05XC - 208 V		17.3	28	30					
HKSX06XC - 208 V	N D 1	21.7	34	35					
HKSX08XC - 208 V	No Breaker	28.9	43	45					
HKSX10XC - 208 V		34.7	50	50					
HKSC05XC - 208 V		17.3	28	30					
HKSC08XC - 208 V		28.9	43	45					
HKSC10XC - 208 V	Breaker	34.7	50	50					
HKSC15XA - 208 V	Dieakei	34.7	50	50	17.3	22	25	72	80
HKSC19CA - 208 V		34.7	50	50	34.7	43	45	93	100
HKSC15XF - 208 V ^		0.0	6.5	15	30.0	38	40		
HKSX05XC - 240 V		20.0	32	35					
HKSX06XC - 240 V	No Breaker	25.0	38	40					
HKSX08XC - 240 V	INO DIEGREI	33.3	48	50					
HKSX10XC - 240 V		40.0	57	60					
HKSC05XC - 240 V		20.0	32	35					
HKSC08XC - 240 V		33.3	48	50					
HKSC10XC - 240 V	Breaker	40.0	57	60					
HKSC15XB - 240 V		40.0	57	60	20.0	25	25	82	90
HKSC19CB - 240 V		40	57	60	40	50	50	107	110
HKSC15XF - 240 V ^		0.0	6.5	15	34.6	43	45		
AVPEC59D14AC		0.0/0.0	8.6/8.6	15/15					
HKSX05XC - 208 V		17.3	30.3	35					
HKSX06XC - 208 V	No Breaker	21.7	36	40					
HKSX08XC - 208 V	b. canci	28.9	45	45					
HKSX10XC - 208 V		34.7	52	60					

See notes on page 7.

			CIRCUIT 1		CIRCUIT 2			SINGLE-F	OINT KIT
MODEL		Амрѕ	MCA ¹	MOP ²	AMPS	MCA ¹	MOP ²	MCA ¹	MOP ²
HKSC05XC - 208 V		17.3	30.3	35					
HKSC08XC - 208 V		28.9	45	45					
HKSC10XC - 208 V	Breaker	34.7	52	60					
HKSC15XB ³ - 208 V		34.7	52	60	17.3	22	25	74	80
HKSC20DH - 208 V		34.7	52	60	34.7	43	45	95	100
HKSX05XC - 240 V		20.0	34	35					
HKSX06XC - 240 V	No Decelor	25	40	40					
HKSX08XC - 240 V	No Breaker	33.3	50.3	60					
HKSX10XC - 240 V		40.0	59	60					
HKSC05XC - 240 V		20.0	34	35					
HKSC08XC - 240 V		33.3	50.3	60					
HKSC10XC - 240 V	Breaker	40.0	59	60					
HKSC15XB - 240 V		40.0	59	60	20	25	25	84	90
HKSC20DB - 240 V		40.0	59	60	40	50	50	109	110
AVPEC61D14AC		0.0/0.0	8.6/8.6	15/15					
HKSX05XC - 208 V		17.3	30	35					
HKSX06XC - 208 V	No Propler	21.7	36	40					
HKSX08XC - 208 V	No Breaker	28.9	45	45					
HKSX10XC - 208 V		34.7	52	60					
HKSC05XC - 208 V		17.3	30	35					
HKSC08XC - 208 V		28.9	45	45					
HKSC10XC - 208 V	Breaker	34.7	52	60					
HKSC15XB ³ - 208 V	Dieakei	34.7	52	60	17.3	22	25	74	80
HKSC20DH - 208 V		34.7	52	60	34.7	43	45	95	100
HKSC25DA - 208 V		52.0	74	80	35	43	45	117	125
HKSX05XC - 240 V		20.0	34	35					
HKSX06XC - 240 V	No Breaker	25	40	40					
HKSX08XC - 240 V	INO DIEdkei	33.3	50	60					
HKSX10XC - 240 V		40.0	59	60					
HKSC05XC - 240 V		20.0	34	35					
HKSC08XC - 240 V		33.3	50	60					
HKSC10XC - 240 V	Progless	40.0	59	60					
HKSC15XB - 240 V	Breaker	40.0	59	60	20	25	25	84	90
HKSC20DB - 240 V		40.0	59	60	40.0	50	50	109	110
HKSC25DB - 240 V		60.0	84	90	40	50	50	134	150

¹ Minimum Circuit Ampacity (Heater Amps + Motor Amps) X 1.25

Note: The 208 or 240 in the heat kit part number field is for clarification of the nominal voltage for this model.

HEATING KW CORRECTION FACTOR

SUPPLY VOLTAGE	240	230	220	210	208
CORRECTION FACTOR	1.00	0.92	0.84	0.77	0.75

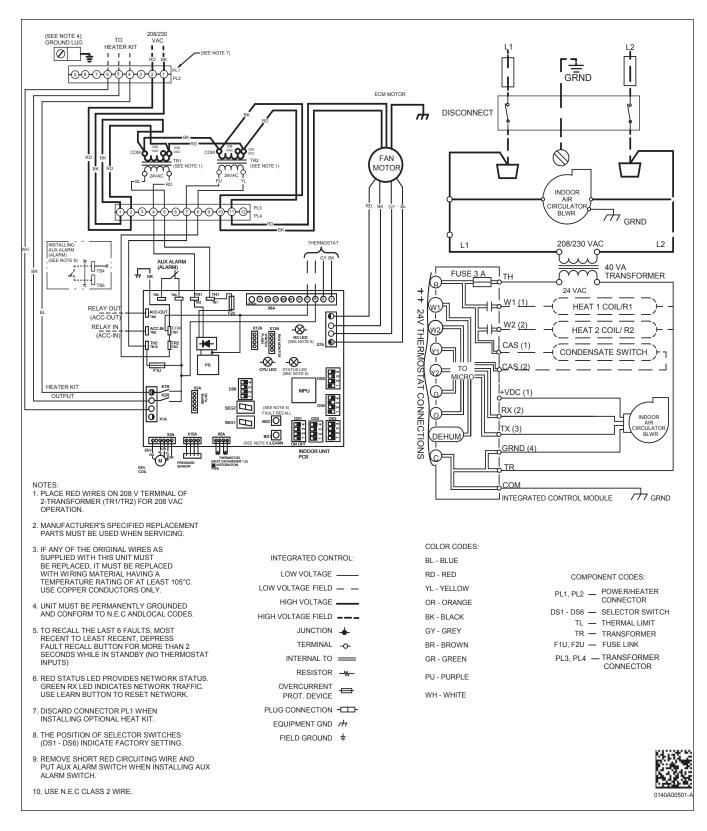
Multiply the 240-volt heating capacity by correction factors.

² Maximum Overcurrent Protection = 2.25 X Motor Amps + Heater Amps

 $^{^{3}}$ Notation is correct as XB because technically the 240V heater kit application can be used here without any issues.

[^] Circuit 1: Single-phase for Air Handlers Circuit 2: Three-phase for HKR3 Heater Kits

⁻⁻⁻ indicates Not Required



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.



High Voltage: Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.

