

AVPTC



Multi-Position, Variable-Speed, ECM-Based Air Handler with Internal TXV COMFORTBRIDGE[™] COMPATIBLE 2 to 5 Tons

Contents

Air Handler Nomenclature	2
Heater Kit Nomenclature	2
Product Specifications	3
Dimensions	4
Airflow Data	5
Heat Kit Data	6
Wiring Diagram1	15
Accessories 1	17







Product Features

- Internal factory-installed thermal expansion valves for cooling and heat pump applications
- Variable-speed ECM blower motor
- Integrated communicating ComfortBridge[™] Technology
 Commissioning and diagnostics via on board Bluetooth
- with the CoolCloud™ phone and tablet application
- Auto configuration of the airflow and tonnage in communicating mode
- Provides constant CFM over a wide range of static pressure conditions independent of duct system
- CFM indicator
- Fault recall of six most recent faults
- Provides adjustable low CFM for efficient fan-only operation
- Improved humidity and comfort control
- Built-in compatibility with multi-stage heat pump and cooling applications
- All-aluminum evaporator coil
- AHRI certified; ETL listed

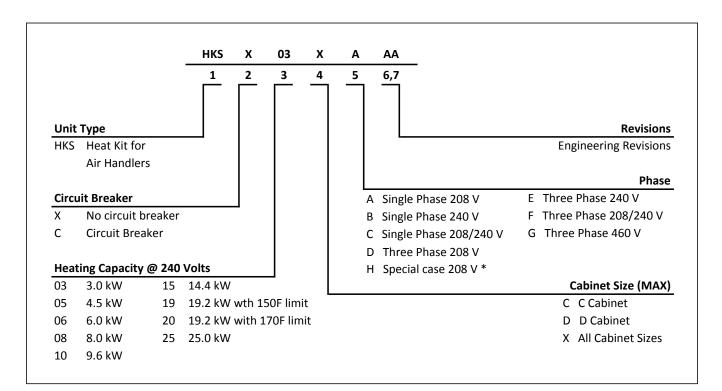
- Rigid SmartFrame™ cabinet
- Cabinet air leakage less than 2.0% at 1.0 inch H_2O when tested in accordance with ASHRAE standard 193
- Cabinet air leakage less than 1.4% at 0.5 inch ${\rm H_2O}$ when tested in accordance with ASHRAE standard 193
- Horizontal or vertical configuration capabilities
- 21" 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
- Field Installed 3 kW 25 kW electric heater kits available



* Complete warranty details available from your local dealer or at <u>www.amana-hac.com</u>. 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.

WWW.amana-hac.com Amana® is a trademark of Maytag Corporation or its related companies and used under license to Goodman Company, L.P., Houston, Texas.

	Α	v	Р	тс	25	В	1	4	BA	
	1	2	3	4 5	6,7	8	9	10	11,12	
Brand										Engineering
A Single-Piece Air Ha	ndler									Major/Minor Revision
									(*Not used fo	r inventory management
UNIT APPLICATION										REFRIGERANT CHARG
R Multi Position PSC	Motor									4 = R-410
S Multi Position EEM	Motor									
V Multi Position Varia	able-Speed									ELECTRICA
Motor- Communic	ating								1	208/230V, 1 Phase, 60 H
Cabinet Finish										CABINET WIDT
U Unpainted										B = 17½
P Painted										C = 21"
										D = 241/2
EXPANSION DEVICE F Flowrater									Nom	INAL CAPACITY @ 13 SEE
T Expansion Device					L		25 = 2 Tons	;	35 = 3 Tons	49 = 4 Tons
V Inverter Tuned Exp	ansion Valve						29 = 2½ Tor	ns	37 = 2½- 3½ Tons	59 = 4-5 Tons
							31 = 2½ Tor	ns	39 = 3 Tons	61 = 5 Tons
				COMMUNIC	ATIONS		33 = 2 Tons			



*Refer S&R Plate

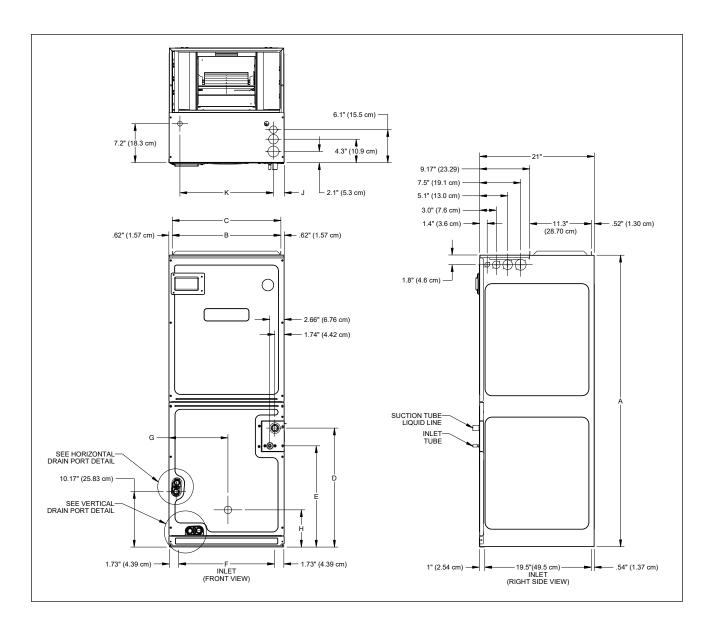
	AVPTC 25B14B*	AVPTC 29B14B*	AVPTC 31C14B*	AVPTC 33C14B*	AVPTC 35B14B*	AVPTC 37B14B*	AVPTC 37C14B*	AVPTC 37D14B*
Nominal Ratings								
Cooling (BTU/h)	24,000	30,000	30,000	24,000	28,000	36,000	36,000	36,000
CFM (High range)	1085/650	1085/610	1315/870	1090/685	1020/685	1085/610	1315/870	1375/865
BLOWER								
Diameter	9½"	9½"	10%"	10%"	9½"	9½"	10%"	10%"
Width	6"	6"	8"	8"	6"	6"	8"	10%"
Coil Drain Connection FPT	3⁄4"	3⁄4''	3⁄4"	3⁄4''	3⁄4''	3⁄4"	3⁄4"	3⁄4''
SERVICE VALVE								
Liquid	3⁄8"	3⁄8"	3⁄8"	3⁄8"	3⁄8"	3⁄8"	3⁄8"	3⁄8"
Suction	3⁄4"	%″	7∕8″	%″	3⁄4"	%″	7⁄8"	7⁄8"
ELECTRICAL DATA								
Voltage	208/240	208/240	208/240	208/240	208/240	208/240	208/240	208/240
Min Circuit Ampacity	4.9/4.9	6.5/6.5	6.5/6.5	4.9/4.9	4.9/4.9	6.5/6.5	6.5/6.5	6.5/6.5
Max. Overcurrent Device (amps)	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15
Minimum VAC	197	197	197	197	197	197	197	197
Maximum VAC	253	253	253	253	253	253	253	253
BLOWER MOTOR								
FLA	3.9	5.2	5.2	3.9	3.9	5.2	5.2	5.2
HP	1/2	3∕4	3⁄4	1/2	1/2	3⁄4	3⁄4	3⁄4
Ship Weight (lbs)	116	129	144	118	116	129	144	155

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

	AVPTC 39C14B*	AVPTC 49C14B*	AVPTC 49D14B*	AVPTC 59C14B*	AVPTC 59D14B*	AVPTC 61D14B*
Nominal Ratings						
Cooling (BTU/h)	36,000	48,000	42,000	48,000	48,000	60,000
CFM (High range)	1315/965	1420/1040	1530/1195	1595/875	1990/1445	2025/1630
BLOWER						
Diameter	10%"	10%"	10%"	10%"	11 ¹⁵ ⁄16"	11 ¹⁵ ⁄16″
Width	8"	8"	10%"	8"	10%"	10%"
Coil Drain Connection FPT	3⁄4''	3⁄4"	3⁄4"	3⁄4''	3⁄4"	3∕4‴
SERVICE VALVE						
Liquid	3/8"	3⁄8"	3⁄8"	3⁄8"	3⁄8"	3⁄8"
Suction	78"	78"	7∕8"	78"	78"	7∕8″
ELECTRICAL DATA						
Voltage	208/240	208/240	208/240	208/240	208/240	208/240
Min Circuit Ampacity	6.5/6.5	6.5/6.5	6.5/6.5	8.6/8.6	8.6/8.6	8.6/8.6
Max. Overcurrent Device (amps)	15/15	15/15	15/15	15/15	15/15	15/15
Minimum VAC	197	197	197	197	197	197
Maximum VAC	253	253	253	253	253	253
BLOWER MOTOR						
FLA	5.2	5.2	5.2	6.9	6.9	6.9
HP	3⁄4	3⁄4	3⁄4	1	1	1
Ship Weight (LBS)	118	125	167	144	155	167

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	А	В	С	D	E	F	G	н
AVPTC25B14*	45	16%	171⁄2	15¼	12	141⁄6	91⁄8	125%
AVPTC29B14*	537/16	16%	171⁄2	23 ¹¹ / ₁₆	201⁄2	141⁄6	91⁄8	75⁄8
AVPTC31C14*	537/16	197%	21	21 ¹³ ⁄16	18%	17 ¹¹ / ₁₆	10 ¹³ ⁄16	6 ¹³ ⁄ ₁₆
AVPTC33C14*	49	197%	21	17%/16	14¾	17 ¹¹ / ₁₆	10%/16	12½
AVPTC35B14*	45	16%	171⁄2	15¼	12	141⁄6	91⁄8	125%
AVPTC37B14*	537/16	16%	171⁄2	23 ¹¹ / ₁₆	201⁄2	141⁄6	91⁄8	75⁄8
AVPTC37C14*	537⁄16	197%	21	21 ¹³ ⁄16	18%	17 ¹¹ / ₁₆	10 ¹³ ⁄16	6 ¹³ ⁄ ₁₆
AVPTC37D14*	537/16	235⁄16	24½	21½	185/16	21¾ ₁₆	125%	67%
AVPTC39C14*	49	197%	21	17%/16	14¾	17 ¹¹ / ₁₆	10%/16	12½
AVPTC49C14*	49	197%	21	17%/16	14¾	17 ¹¹ / ₁₆	10%/16	12½
AVPTC49D14*	58	235/16	241⁄2	261/8	227/8	21³⁄16	12%	251/8
AVPTC59C14*	537⁄16	197%	21	21 ¹³ ⁄16	18%	17 ¹¹ / ₁₆	10 ¹³ ⁄16	6 ¹³ ⁄ ₁₆
AVPTC59D14*	537/16	235⁄16	241⁄2	21½	185/16	21³⁄16	125%	67%
AVPTC61D14*	58	235⁄16	241⁄2	261/8	227%	21¾	125%	251/8

AVPTC25B14B*, AVPTC33C14B*				
Tons	High Stage CFM	Default Low Stage CFM		
1.5	600	402		
2	800	536		

AVPTC39C14B*					
Tons	High Stage CFM	Default Low Stage CFM			
2.5	1,000	670			
3	1,200	804			

AVPTC29B14B*					
Tons	High Stage CFM	Default Low Stage CFM			
1.5	600	402			
2	800	536			
2.5	1,000	670			

AVPTC49C14B*, AVPTC49D14B*, AVPTC59C14B*					
Tons	High Stage CFM	Default Low Stage CFM			
3	1200	804			
3.5	1,400	938			
4	1,600	1,072			

AVPTC31C14B*, AVPTC35B14B* AVPTC37B14B*, AVPTC37C14B*				
Tons	High Stage CFM	Default Low Stage CFM		
2	800	536		
2.5	1,000	670		
3	1,200	804		

AVPTC59D14B*					
Tons	High Stage CFM	Default Low Stage CFM			
3.5	1,400	938			
4	1,600	1,072			
4.5	1,800	1,206			
5	2,000	1,340			

AVPTC37D14B*					
Tons	High Stage CFM	Default Low Stage CFM			
3	1,200	804			

	AVPTC61D14B*										
Tons	High Stage CFM	Default Low Stage CFM									
4	1,600	1,072									
4.5	1,800	1,206									
5	2,000	1,340									

Notes:

1. For installations with a communicating outdoor unit, airflow is set automatically by the condenser or heat pump. No indoor airflow setting is needed for the install.

For installations with a non-communicating outdoor unit, target airflows are listed in the tables above.
 Recommended external static pressures are 0.1- 0.5 in. wc (0.6 in. wc and above not recommended).

4. Listed airflow values are targets only. Actual airflow may deviate from targets due to variations in individual installations and may be adjusted using trim values in the CoolCloud app or onboard push button menus 5. For most installations, 400 SCFM per ton is desirable.

			CIRCUIT 1		Circuit 2			SINGLE-F	ΟΙΝΤ ΚΙΤ
HEATER KIT MODEL		HEATER	MCA ¹	MOP ²	HEATER AMPS	MCA ¹	MOP ²	MCA1	MOP ²
AVPTC25B14B*		Амрs 0/0	4.9/4.9	15/15					
HKSX03XC- 208 V		10.8	18.4	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		28.9	41	45					
HKSC10XC- 208 V	Breaker	34.7	48	50					
HKSC15XA- 208 V		34.7	48	50	17.3	21.7	25	69.9	70
HKSX03XC- 240 V		12.5	21	25					
HKSX05XC- 240 V		20	29.9	30					
HKSX06XC- 240 V	No Breaker	25	36.1	40					
HKSX08XC- 240 V		33.3	46.5	50					
HKSX10XC- 240 V		40	54.9	60					
HKSC05XC- 240 V		20	29.9	30					
HKSC08XC- 240 V	Breaker	33.3	46.5	50					
HKSC10XC- 240 V	Dieakei	40	54.9	60					
HKSC15XB- 240 V		40	54.9	60	20	25	25	79.9	80
AVPTC29B14B*		0/0	6.5/6.5	15/15					
HKSX03XC- 208 V		10.8	20	20					
HKSX05XC- 208 V		17.3	28.2	30					
HKSX06XC- 208 V	No Breaker	21.7	33.6	35					
HKSX08XC- 208 V		28.9	42.6	45					
HKSX10XC- 208 V		34.7	49.8	50					
HKSC05XC- 208 V		17.3	28.2	30					
HKSC08XC- 208 V	Breaker	28.9	42.6	45					
HKSC10XC- 208 V	Breaker	34.7	49.8	50					
HKSC15XA- 208 V		34.7	49.8	50	17.3	21.7	25	71.5	80
HKSX03XC- 240 V		12.5	22.1	25					
HKSX05XC- 240 V		20	32	35					
HKSX06XC- 240 V	No Breaker	25	38	40					
HKSX08XC- 240 V		33.3	48	50					
HKSX10XC- 240 V		40	57	60					
HKSC05XC- 240 V		20	32	35					
HKSC08XC- 240 V	Breaker	33.3	48	50					
HKSC10XC- 240 V		40	57	60					
HKSC15XB- 240 V		40	57	60	20	25	25	81.5	90
AVPTC31C14B*		0/0	6.5/6.5	15/15					
HKSX03XC- 208 V		10.8	20	20					
HKSX05XC- 208 V		17.3	28.2	30					
HKSX06XC- 208 V	No Breaker	21.7	33.6	35					
HKSX08XC- 208 V		28.9	42.6	45					
HKSX10XC- 208 V		34.7	49.8	50					

			CIRCUIT 1		Circuit 2		Single-I	ΡΟΙΝΤ ΚΙΤ	
HEATER KIT MODEL	-	Heater Amps	MCA ¹	MOP ²	HEATER AMPS	MCA ¹	MOP ²	MCA ¹	MOP ²
HKSC05XC- 208 V		17.3	28.2	30					
HKSC08XC- 208 V		28.9	42.6	45					
HKSC10XC- 208 V		34.7	49.8	50					
HKSC15XA- 208 V	Breaker	34.7	49.8	50	17.3	21.7	25	71.5	80
HKSC19CA- 208 V		34.7	49.8	50	34.7	43.3	45	93.2	100
HKSC15XF- 208 V ^		0	6.5	15	30	37.5	40		
HKSX03XC- 240 V		12.5	22.1	25					
HKSX05XC- 240 V		20	32	35					
HKSX06XC- 240 V	No Breaker	25	38	40					
HKSX08XC- 240 V		33.3	48	50					
HKSX10XC- 240 V		40	57	60					
HKSC05XC- 240 V		20	32	35					
HKSC08XC- 240 V		33.3	48	50					
HKSC10XC- 240 V		40	57	60					
HKSC15XB- 240 V	Breaker	40	56.5	60	20	25	25	81.5	90
HKSC19CB- 240 V		40	56.5	60	40	50	50	107	110
HKSC15XF- 240 V ^		0	6.5	15	34.6	43	45		
AVPTC33C14B*		0.0/0.0	4.9/4.9	15/15					
HKSX03XC- 208 V		10.8	18.4	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		21.7	32	35					
HKSC10XC- 208 V	Breaker	28.9	41	45					
HKSC15XA- 208 V		34.7	48	50	17.3	21.7	25	69.9	70
HKSX03XC- 240 V		12.5	21	25					
HKSX05XC- 240 V		20	29.9	30					
HKSX06XC- 240 V	No Breaker	25	36.1	40					
HKSX08XC- 240 V		33.3	46.5	50					
HKSX10XC- 240 V		40	54.9	60					
HKSC05XC- 240 V		20	29.9	30					
HKSC08XC- 240 V	Brooker	33.3	46.5	50					
HKSC10XC- 240 V	Breaker	40	54.9	60					
HKSC15XB- 240 V		40	54.9	60	20	25	25	79.9	80
AVPTC35C14B*		0/0	4.9/4.9	15/15					
HKSX03XC- 208 V		10.8	18.4	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					

			CIRCUIT 1	1 Circuit 2		SINGLE-F	OINT KIT		
HEATER KIT MODEL		HEATER	MCA1	MOP ²	HEATER AMPS	MCA ¹	MOP ²	MCA1	MOP ²
HKSC05XC- 208 V		Амрs 17.3	27	30					
HKSC08XC- 208 V		28.9	41	45					
HKSC10XC- 208 V	Breaker	34.7	48	50					
HKSC15XA- 208 V		34.7	48	50	17.3	21.7	25	69.9	70
HKSX03XC- 240 V	<u>.</u>	12.5	21	25					
HKSX05XC- 240 V		20	29.9	30					
HKSX06XC- 240 V	No Breaker	25	36.1	40					
HKSX08XC- 240 V		33.3	46.5	50					
HKSX10XC- 240 V		40	54.9	60					
HKSC05XC- 240 V		20	29.9	30					
HKSC08XC- 240 V		33.3	46.5	50					
HKSC10XC- 240 V	Breaker	40	54.9	60					
HKSC15XB- 240 V		40	54.9	60	20	25	25	79.9	80
AVPTC37B14B*		0/0	6.5/6.5	15/15					
HKSX03XC- 208 V		10.8	20	20					
HKSX05XC- 208 V		17.3	28.2	30					
HKSX06XC- 208 V	No Breaker	21.7	33.6	35					
HKSX08XC- 208 V		28.9	42.6	45					
HKSX10XC- 208 V		34.7	49.8	50					
HKSC05XC- 208 V		17.3	28.2	30					
HKSC08XC- 208 V	Breaker	28.9	42.6	45					
HKSC10XC- 208 V	Dieakei	34.7	49.8	50					
HKSC15XA- 208 V		34.7	49.8	50	17.3	21.7	25	71.5	80
HKSX03XC- 240 V		12.5	22.1	25					
HKSX05XC- 240 V		20	32	35					
HKSX06XC- 240 V	No Breaker	25	38	40					
HKSX08XC- 240 V		33.3	48	50					
HKSX10XC- 240 V		40	57	60					
HKSC05XC- 240 V		20	32	35					
HKSC08XC- 240 V	Breaker	33.3	48	50					
HKSC10XC- 240 V		40	57	60					
HKSC15XB- 240 V		40	57	60	20	25	25	81.5	90
AVPTC37C14B*		0/0	6.5/6.5	15/15					
HKSX03XC- 208 V									
HKSX05XC- 208 V		17.3	28.2	30					
HKSX06XC- 208 V	No Breaker	21.7	33.6	35					
HKSX08XC- 208 V		28.9	42.6	45					
HKSX10XC- 208 V		34.7	49.8	50					
HKSC05XC-208 V		17.3	28.2	30					
HKSC08XC- 208 V		28.9	42.6	45					
HKSC10XC- 208 V	Breaker	34.7	49.8	50					
HKSC15XA- 208 V		34.7	49.8	50	17.3	21.7	25	71.5	80
HKSC19CA- 208 V		34.7	49.8	50	34.7	43.3	45	93.2	100
HKSC15XF-208 V ^		0	6.5	15	30	37.5	40		

			CIRCUIT 1			Circuit 2		Single-F	ΟΙΝΤ ΚΙΤ
HEATER KIT MODEL	-	Heater Amps	MCA ¹	MOP ²	HEATER AMPS	MCA ¹	MOP ²	MCA ¹	MOP ²
HKSX03XC- 240 V									
HKSX05XC- 240 V		20	32	35					
HKSX06XC- 240 V	No Breaker	25	38	40					
HKSX08XC- 240 V		33.3	48	50					
HKSX10XC- 240 V		40	57	60					
HKSC05XC- 240 V		20	32	35					
HKSC08XC- 240 V		33.3	48	50					
HKSC10XC- 240 V		40	57	60					
HKSC15XB- 240 V	Breaker	40	57	60	20	25	25	81.5	90
HKSC19CB- 240 V		40	57	60	40	50	50	106.5	110
HKSC15XF- 240 V ^		0	6.5	15	34.6	43	45		
AVPTC37D14B*		0/0	6.5/6.5	15/15					
HKSX03XC- 208 V									
HKSX05XC- 208 V		17.3	28.2	30					
HKSX06XC- 208 V	No Breaker	21.7	33.6	35					
HKSX08XC- 208 V		28.9	42.6	45					
HKSX10XC- 208 V		34.7	49.8	50					
HKSC05XC- 208 V		17.3	28.2	30					
HKSC08XC- 208 V		28.9	42.6	45					
HKSC10XC- 208 V		34.7	49.8	50					
HKSC15XA- 208 V	Breaker	34.7	49.8	50	17.3	21.7	25	71.5	80
HKSC20DA- 208 V	Dicalici	34.7	49.8	50	34.7	43.3	45	93.2	100
HKSC15XF- 208 V ^		0	6.5	15	30	37.5	40		
HKSC20XF- 208 V ^		0	6.5	15	37.5	47	50		
HKSX03XC- 240 V									
HKSX05XC- 240 V		20	32	35					
HKSX06XC- 240 V	No Breaker	25	38	40					
HKSX08XC- 240 V	NO BICAKEI	33.3	48	50					
HKSX10XC- 240 V		40	57	60					
HKSC05XC- 240 V		20	37	35					
HKSC08XC- 240 V		33.3	48	50					
HKSC10XC- 240 V		40	57	60					
HKSC15XB- 240 V	Breaker	40	57	60	20	25	25	81.5	90
HKSC20DB- 240 V	DICANCI	40	57	60	40	50	50	106.5	90 110
HKSC15XF- 240 V ^		40		15	34.6	43	45		
HKSC20XF- 240 V ^		0	6.5 6.5	15	43	43 54	45 60		
AVPTC39C14B*		0.0/0.0	6.5/6.5		45				
				15/15					
HKSX03XC-208 V									
HKSX05XC-208 V	No Prosker	17.3	28.2	30					
HKSX06XC-208 V	No Breaker	21.7	33.6	35					
HKSX08XC- 208 V		28.9	42.6	45					
HKSX10XC-208 V		34.7	49.8	50					

			CIRCUIT 1		Circuit 2			Single-F	ΟΙΝΤ ΚΙΤ
HEATER KIT MODEL		Heater Amps	MCA ¹	MOP ²	HEATER AMPS	MCA ¹	MOP ²	MCA ¹	MOP ²
HKSC05XC- 208 V		17.3	28.2	30					
HKSC08XC- 208 V		28.9	42.6	45					
HKSC10XC- 208 V		34.7	49.8	50					
HKSC15XA- 208 V	Breaker	34.7	49.8	50	17.3	21.7	25	71.5	80
HKSC19CA- 208 V		34.7	49.8	50	34.7	43.3	45	93.2	100
HKSC15XF- 208 V ^		0	6.5	15	30	37.5	40		
HKSX03XC- 240 V									
HKSX05XC- 240 V		20	32	35					
HKSX06XC- 240 V	No Breaker	25	38	40					
HKSX08XC- 240 V		33.3	48	50					
HKSX10XC- 240 V		40	57	60					
HKSC05XC- 240 V		20	32	35					
HKSC08XC- 240 V		33.3	48	50					
HKSC10XC- 240 V		40	57	60					
HKSC15XB- 240 V	Breaker	40	57	60	20	25	25	81.5	90
HKSC19CB- 240 V		40	57	60	40	50	50	106.5	110
HKSC15XF- 240 V ^		0	6.5	15	34.6	43	45		
AVPTC49C14B*		0.0/0.0	6.5/6.5	15/15					
HKSX03XC- 208 V									
HKSX05XC- 208 V		17.3	28.2	30					
HKSX06XC- 208 V	No Breaker	21.7	33.6	35					
HKSX08XC- 208 V		28.9	42.6	45					
HKSX10XC- 208 V		34.7	49.8	50					
HKSC05XC- 208 V		17.3	28.2	30					
HKSC08XC- 208 V		28.9	42.6	45					
HKSC10XC- 208 V	Drooker	34.7	49.8	50					
HKSC15XA- 208 V	Breaker	34.7	49.8	50	17.3	21.7	25	71.5	80
HKSC19CA- 208 V		34.7	49.8	50	34.7	43.3	45	93.2	100
HKSC15XF-208 V ^		0	6.5	15	30	37.5	40		
HKSX03XC- 240 V									
HKSX05XC- 240 V		20	32	35					
HKSX06XC- 240 V	No Breaker	25	38	40					
HKSX08XC- 240 V		33.3	48	50					
HKSX10XC- 240 V		40	57	60					
HKSC05XC- 240 V		20	32	35					
HKSC08XC- 240 V		33.3	48	50					
HKSC10XC- 240 V	Drock	40	57	60					
HKSC15XB- 240 V	Breaker	40	57	60	20	25	25	81.5	90
HKSC19CB- 240 V		40	57	60	40	50	50	106.5	110
HKSC15XF-240 V ^		0	6.5	15	34.6	43	45		

			CIRCUIT 1			CIRCUIT 2		Single-F	οιντ Κιτ
HEATER KIT MODEL		Heater Amps	MCA ¹	MOP ²	HEATER AMPS	MCA ¹	MOP ²	MCA ¹	MOP ²
AVPTC49D14B*		0/0	6.5/6.5	15/15					
HKSX03XC- 208 V									
HKSX05XC- 208 V		17.3	28.2	30					
HKSX06XC- 208 V	No Breaker	21.7	33.6	35					
HKSX08XC- 208 V		28.9	42.6	45					
HKSX10XC- 208 V		34.7	49.8	50					
HKSC05XC- 208 V		17.3	28.2	30					
HKSC08XC- 208 V		28.9	42.6	45					
HKSC10XC- 208 V		34.7	49.8	50					
HKSC15XA- 208 V		34.7	49.8	50	17.3	21.7	25	71.5	80
HKSC20DA- 208 V	Breaker								
HKSC15XF- 208 V ^									
HKSC20XF- 208 V ^									
HKSC25DA- 208 V									
HKSX03XC- 240 V									
HKSX05XC- 240 V		20	32	35					
HKSX06XC- 240 V	No Breaker	25	38	40					
HKSX08XC- 240 V		33.3	48	50					
HKSX10XC- 240 V		40	57	60					
HKSC05XC- 240 V		20	32	35					
HKSC08XC- 240 V		33.3	48	50					
HKSC10XC- 240 V		40	57	60					
HKSC15XB- 240 V		40	57	60	20	25	25	81.5	90
HKSC20DB- 240 V	Breaker								
HKSC15XF- 240 V ^									
HKSC20XF- 240 V ^									
HKSC25DB- 240 V									
AVPTC59C14B*		0/0	8.6/8.6	15/15					
HKSX03XC- 208 V									
HKSX05XC- 208 V		17.3	30.3	35					
HKSX06XC- 208 V	No Breaker	21.7	36	40					
HKSX08XC- 208 V		28.9	45	45					
HKSX10XC- 208 V		34.7	52	60					
HKSC05XC- 208 V		17.3	30.3	35					
HKSC08XC- 208 V		28.9	45	45					
HKSC10XC- 208 V		34.7	52	60					
HKSC15XB ³ - 208 V	Breaker	34.7	52	60	17.3	21.7	25	73.6	80
HKSC19CH- 208 V	5. culler	34.7	52	60	34.7	43.3	45	95.3	100
HKSC15XF- 208 V ^		0	8.6	15	30	37.5	40		
HKSC20XF- 208 V ^									
See notes on page 13	<u>I</u>		I	I	I		I		

			CIRCUIT 1			Circuit 2		Single-F	οιντ Κιτ
HEATER KIT MODEL		HEATER AMPS	MCA ¹	MOP ²	HEATER AMPS	MCA ¹	MOP ²	MCA ¹	MOP ²
HKSX03XC- 240 V									
HKSX05XC- 240 V		20	34	35					
HKSX06XC- 240 V	No Breaker	25	39.9	40					
HKSX08XC- 240 V		33.3	50.3	60					
HKSX10XC- 240 V		40	58.6	60					
HKSC05XC- 240 V		20	34	35					
HKSC08XC- 240 V		33.3	50.3	60					
HKSC10XC- 240 V		40	58.6	60					
HKSC15XB- 240 V	Breaker	40	58.6	60	20	25	25	83.6	90
HKSC19CB- 240 V		40	58.6	60	40	50	50	108.6	110
HKSC15XF- 240 V ^		0	8.6	15	34.6	43	45		
HKSC20XF- 240 V ^									
AVPTC59D14B*		0/0	8.6/8.6	15/15					
HKSX03XC- 208 V									
HKSX06XC- 208 V		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	30.3	35					
HKSC08XC- 208 V		28.9	45	45					
HKSC10XC- 208 V		34.7	52	60					
HKSC15XB ³ - 208 V	Breaker	34.7	52	60	17.3	21.7	25	73.6	80
HKSC20DH- 208 V		34.7	52	60	34.7	43.3	45	95.3	100
HKSC15XF- 208 V ^		0	8.6	15	30	37.5	40		
HKSC20XF- 208 V ^		0	8.6	15	37.5	47	50		
HKSX03XC- 240 V									
HKSX05XC- 240 V		20	34	35					
HKSX06XC- 240 V	No Breaker	25	39.9	40					
HKSX08XC- 240 V		33.3	50.3	60					
HKSX10XC- 240 V		40	58.6	60					
HKSC05XC- 240 V		20	34	35					
HKSC08XC- 240 V		33.3	50.3	60					
HKSC10XC- 240 V		40	58.6	60					
HKSC15XB- 240 V	Breaker	40	58.6	60	20	25	25	83.6	90
HKSC20DB- 240 V		40	58.6	60	40	50	50	108.6	110
HKSC15XF- 240 V ^		0	8.6	15	34.6	43	45		
HKSC20XF- 240 V ^		0	8.6	15	43	54	60		
AVPTC61D14B*		0/0	8.6/8.6	15/15					
HKSX03XC- 208 V									
HKSX05XC- 208 V		17.3	30.3	35					
HKSX06XC- 208 V	No Breaker	21.7	36	40					
HKSX08XC- 208 V		28.9	45	45					
HKSX10XC- 208 V		34.7	52	60					

			CIRCUIT 1			CIRCUIT 2		Single-P	ΟΙΝΤ ΚΙΤ
HEATER KIT MODEL		Heater Amps	MCA ¹	MOP ²	HEATER 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		34.7	52	60					
HKSC15XB ³ - 208 V	Breaker	34.7	52	60	17.3	21.7	25	73.6	80
HKSC20DH- 208 V	Dieakei	34.7	52	60	34.7	43.3	45	95.3	100
HKSC15XF- 208 V ^		0	8.6	15	30	37.5	40		
HKSC20XF- 208 V ^		0	8.6	15	37.5	47	50		
HKSC25DA- 208 V		52	73.6	80	34.7	43.3	45	117	125
HKSX03XC- 240 V									
HKSX05XC- 240 V		20	34	35					
HKSX06XC- 240 V	No Breaker	25	39.9	40					
HKSX08XC- 240 V		33.3	50.3	60					
HKSX10XC- 240 V		40	58.6	60					
HKSC05XC- 240 V		20	34	35					
HKSC08XC- 240 V		33.3	50.3	60					
HKSC10XC- 240 V		40	58.6	60					
HKSC15XB- 240 V	Breaker	40	58.6	60	20	25	25	83.6	90
HKSC20DB- 240 V	breaker	40	58.6	60	40	50	50	108.6	110
HKSC15XF- 240 V ^		0	8.6	15	34.6	43	45		
HKSC20XF- 240 V ^		0	8.6	15	43	54	60		
HKSC25DB- 240 V		60	84	90	40	50	50	133.6	150

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

² Maximum Overcurrent Protection = 2.25 X Motor Amps + Heater Amps
 [^] Circuit 1: Single-phase for Air Handlers Circuit 2: Three-phase for HKR3 Heater Kits

Note: The 208 or 240 in the heat kit part number field is for clarification of the nominal voltage for this model. ³Notation is correct as XB because technically the 240V heater kit application can be used here without any issues.

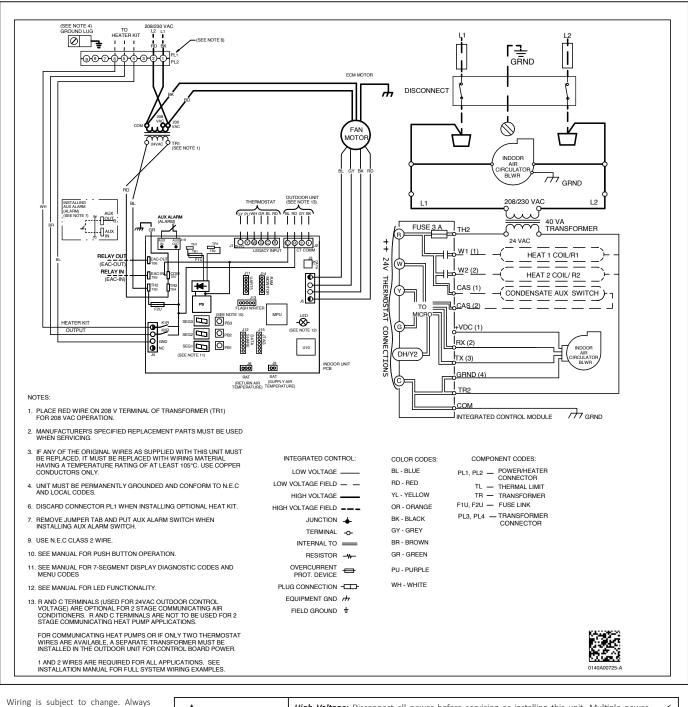
	ELECTRIC HEAT AIRFLOW TABLE										
Htr Kw	AVPTC25B14	AVPTC29B14	AVPTC29B14 AVPTC29B14	AVPTC31C14	AVPTC31C14	AVPTC37C14 AVPTC39C14	AVPTC49C14 AVPTC59C14	AVPTC37D14	AVPTC49D14 ++	AVPTC59D14	AVPTC61D14 ++
3	550	550	550	600	600	NR	NR	NR	NR	NR	NR
5	650	650	650	700	700	700	800	870	950	990	1030
6	700	700	700	770	750	770	800	970	1060	1110	1150
8	800	800	800	880	850	880	950	1060	1150	1200	1250
10	850	850	850	970	920	970	1090	1120	1220	1240	1320
15	875	875	875	1090	950	1090	1290	1220	1520	1520	1650
19	NR	NR	1050	1280	NR	1280	1345	NR	NR	NR	NR
20	NR	NR	NR	NR	NR	NR	NR	1250	NR	1520	1690
21	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
25	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1750

Selecting Heater Kit: Use the Electric Heating Wattage Menu (EHt) to select heater kit size. See "Menu Navigation and Selection Instructions" in Installation Manual. Default selection is 0 (No Heat Kit). Select installed heater kit for heater kit operation.

NR- Not Rated

++ For match up with a 3 ton outdoor unit: Airflow for 5kW up to 15kW heater kits shall be set to 1220 CFM by selecting 10 in the Electric Heating Wattage (EHt) menu.

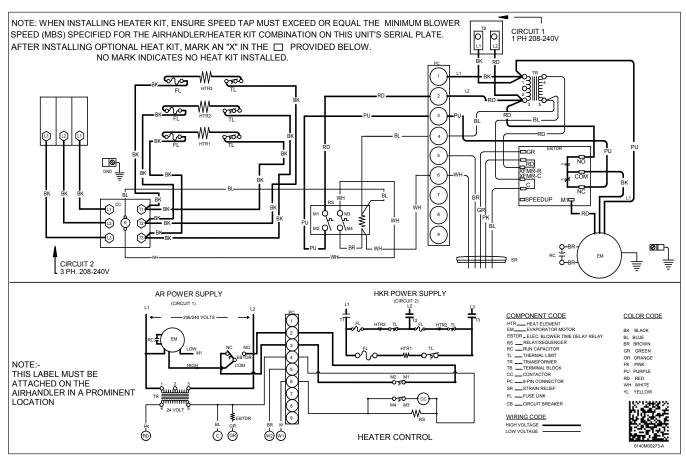
+++ For match up with a 3.5 ton outdoor unit: Heater kit application shall not exceed 20 kW. Airflow for 5kW up to 20kW heater kits shall be set to 1320 CFM by selecting 10 in the Electric Heating Wattage (EHt) menu.



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

MARNING

WG 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.



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

 \wedge

 WARNING
 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.

DOWNFLOW KITS

DFK-B	DFK-C	DFK-D
AVPTC25B14**	AVPTC31C14**	AVPTC37D14**
AVPTC29B14**	AVPTC33C14**	AVPTC59D14**
AVPTC35B14**	AVPTC37C14**	AVPTC49D14**
AVPTC37B14**	AVPTC39C14**	AVPTC61D14**
	AVPTC49C14**	
	AVPTC59C14**	

FILTERS

CHASSIS	Part #	Size
В	ALFH16201E	16.0" x 20.0"
С	ALFH1912201E	19.5" x 20.0"
D	ALFH20231E	23.0" x 20.0"

SINGLE POINT KIT **

Model	HKS*15	HKS*19	HKS*20	HKS*25
SPW-01	Х	Х	Х	Х

** Must be installed along with any of the above compatible heat kits. This kit will fit any AVPTC air handler as long as a compatible heat kit is installed in the unit.

DRAIN PORT PLUG

KIT NUMBER	DESCRIPTION	Application
DPK1	Side Drain Port Plug	All Models

Notes	

Amana® is a trademark of Maytag Corporation or its related companies and used under license to Goodman Company, L.P. All rights reserved. Our continuing commitment to quality products may mean a change in specifications without notice. ©2021 Goodman Company, L.P. • Houston, Texas • Printed in the USA.