



**MULTI-POSITION, VARIABLE-SPEED,
ECM-BASED AIR HANDLER
WITH INTERNAL TXV
COMFORTNET™ COMPATIBLE
1½ TO 5 TONS**

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Product Features

- Internal factory-installed thermal expansion valves for cooling and heat pump applications
- Variable-speed ECM blower motor
- ComfortNet™ Communicating System compatible
- 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
- 3 kW – 25 kW electric heater kits
- AHRI certified; ETL listed
- Rigid SmartFrame™ cabinet
- 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



* Complete warranty details available from your local dealer or at www.goodmanmfg.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 Quebec.

	A	V	P	T	C	25	B	1	4	AA	
	1	2	3	4	5	6,7	8	9	10	11,12	
Brand											Engineering*
A Single-Piece Airhandler											Major/Minor Revisions
											*Not used for inventory management
Unit Application											Refrigerant Charge
R Multi Position PSC Motor											4 = R-410A
S Multi Position EEM Motor											
V Multi Position Variable-Speed Motor-Communitacating											Electrical
											1 208/230V, 1 Phase, 60 Hz
Cabinet Finish											Cabinet Width
U Unpainted											B = 17½"
P Painted											C = 21"
											D = 24½"
Expansion Device											Nominal Capacity @ 13SEER
T Expansion Device											24 = 2 Tons
V Inverter Tuned Expansion Valve											31 = 2½ Tons
											48 = 4 Tons
											25 = 2 Tons
											36 = 3 Tons
											49 =3-3½ Tons
											29 = 2 Tons
											37 = 2½-3½ Tons
											59 = 4-5 Tons
											30 = 2½ Tons
											42 = 3½ Tons
											60 = 5 Tons
											61 = 4-5 Tons
											Communications
											C = ComfortNet™ Compatible

	HKS	X	03	X	A	AA	
	1	2	3	4	5	6,7	
Unit Type							Revisions
HKS Heat Kit for Air Handlers							Engineering Revisions
Phase							Phase
X No circuit breaker							A Single Phase 208 V
C Circuit Breaker							E Three Phase 240 V
							B Single Phase 240 V
							F Three Phase 208/240 V
							C Single Phase 208/240 V
							G Three Phase 460 V
							D Three Phase 208 V
Heating Capacity @ 240 Volts							Cabinet Size (MAX)
03 3.0 kW	15	14.4 kW					C C Cabinet
05 4.5 kW	19	19.2 k@ wth 150F limit					D D Cabinet
06 6.0 kW	20	19.2 kW with 170F limit					X All Cabinet Sizes
08 8.0 kW	25	25.0 kW					
10 9.6 kW							

	AVPTC 24B14A*	AVPTC 25B14A*	AVPTC 29B14A*	AVPTC 30C14A*	AVPTC 31C14A*	AVPTC 36C14A*	AVPTC 37B14A*	AVPTC 37C14A*	AVPTC 37D14A*
NOMINAL RATINGS									
Cooling (BTU/h)	24,000	24,000	30,000	30,000	30,000	36,000	36,000	36,000	36,000
CFM (High range)	1100/600	1085/650	1085/610	1200/600	1315/870	1600/700	1085/610	1315/870	1375/865
BLOWER									
Diameter	9½"	9½"	9½"	10⅝"	10⅝"	10⅝"	9½"	10⅝"	10⅝"
Width	6"	6"	6"	8"	8"	10⅝"	6"	8"	10⅝"
Coil Drain Connection FPT	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"
SERVICE VALVE									
Liquid	⅝"	⅝"	⅝"	⅝"	⅝"	⅝"	⅝"	⅝"	⅝"
Suction	¾"	¾"	⅞"	⅞"	⅞"	⅞"	⅞"	⅞"	⅞"
ELECTRICAL DATA									
Voltage	208/240	208/240	208/240	208/240	208/240	208/240	208/240	208/240	208/240
Min Circuit Ampacity	4.9/4.9	4.9/4.9	6.5/6.5	4.9/4.9	6.5/6.5	6.5/6.5	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	15/15
Minimum VAC	197	197	197	197	197	197	197	197	197
Maximum VAC	253	253	253	253	253	253	253	253	253
BLOWER MOTOR									
FLA	3.9	3.9	5.2	3.9	5.2	5.2	5.2	5.2	5.2
HP	½	½	¾	½	¾	¾	¾	¾	¾
SHIP WEIGHT (LBS)	100	116	129	118	144	118	129	144	155

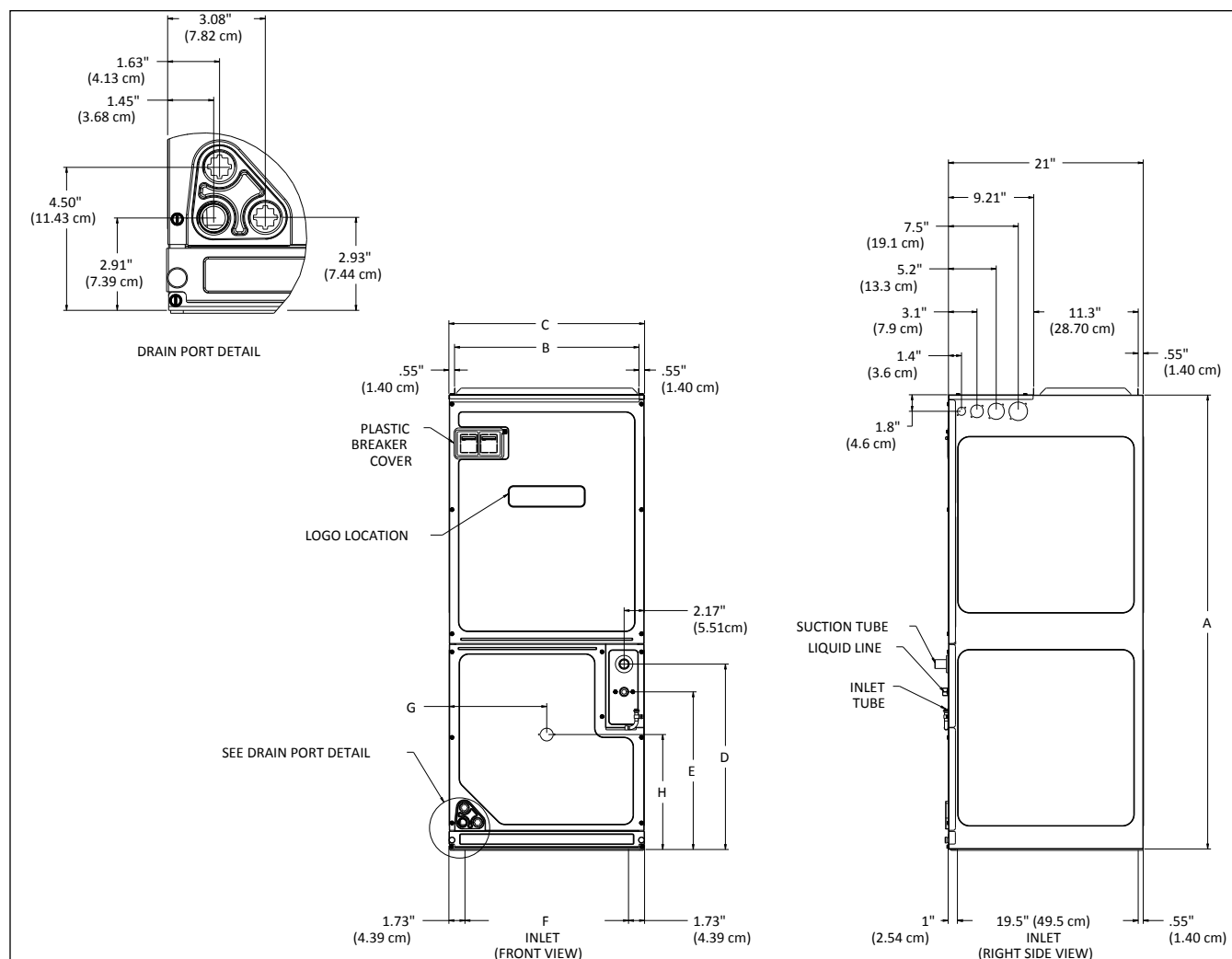
Note: Minimum Circuit Ampacity (MCA) and Maximum Overcurrent Protection (MOP) for blower without supplemental heat installed.

Refer to unit nameplate and/or Heat Kit Data for specification with approved accessory heaters installed

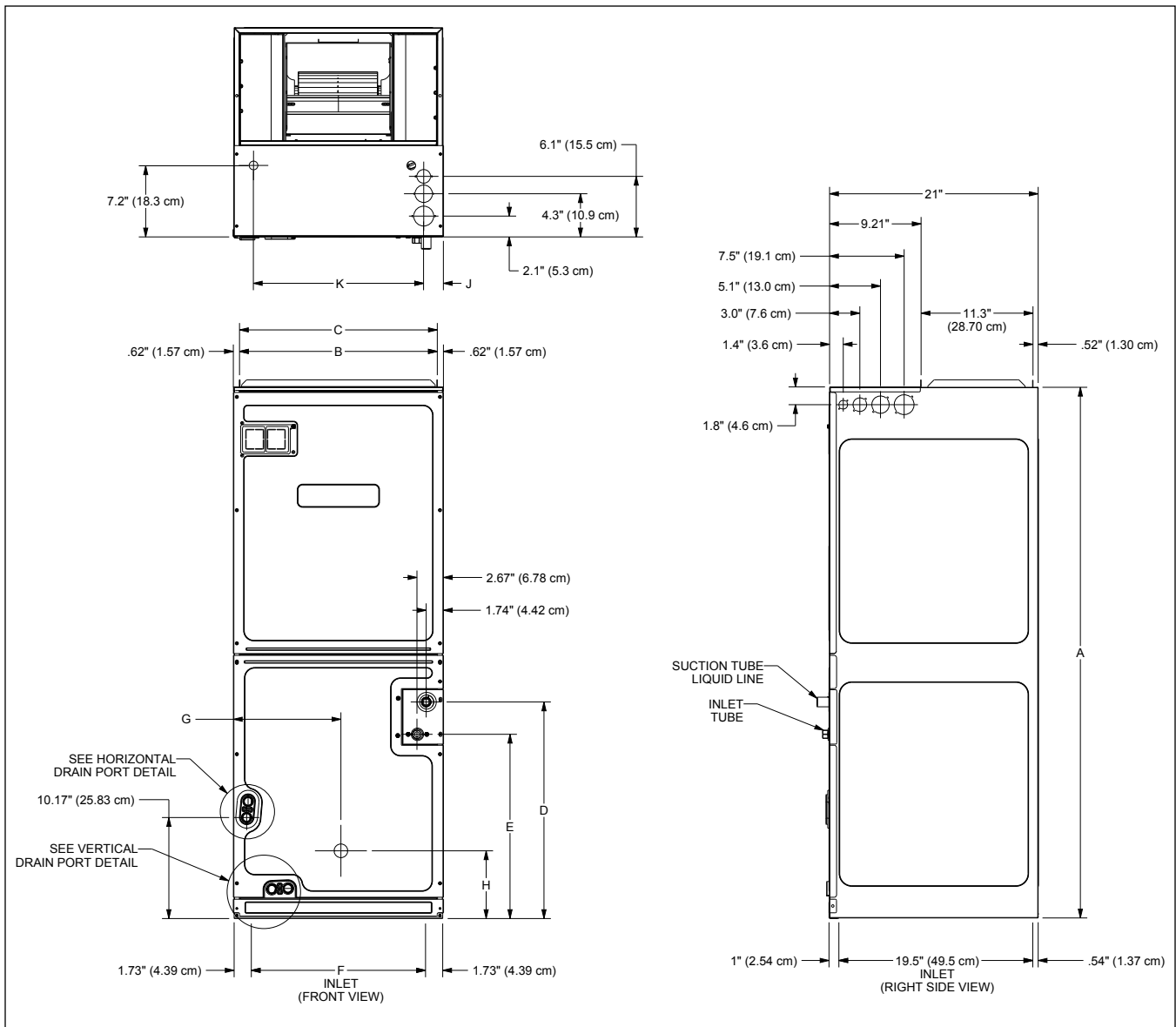
	AVPTC 42D14A*	AVPTC 48C14A*	AVPTC 48D14A*	AVPTC 49D14A*	AVPTC 59C14A*	AVPTC 59D14A*	AVPTC 60D14A*	AVPTC 61D14A*
NOMINAL RATINGS								
Cooling (BTU/h)	42,000	42,000	48,000	42,000	48,000	48,000	60,000	60,000
CFM (High range)	1700/800	1660/700	1800/1350	1530/1195	1595/875	1990/1445	2000/1600	2025/1630
BLOWER								
Diameter	10⅝"	10⅝"	10⅝"	10⅝"	10⅝"	11⅝"	11⅝"	11⅝"
Width	10⅝"	10⅝"	10⅝"	10⅝"	8"	10⅝"	10⅝"	10⅝"
Coil Drain Connection FPT	¾"	¾"	¾"	¾"	¾"	¾"	¾"	¾"
SERVICE VALVE								
Liquid	⅝"	⅝"	⅝"	⅝"	⅝"	⅝"	⅝"	⅝"
Suction	⅞"	⅞"	⅞"	⅞"	⅞"	⅞"	⅞"	⅞"
ELECTRICAL DATA								
Voltage	208/240	208/240	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	6.5/6.5	8.6/8.6	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	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	5.2	5.2	5.2	5.2	6.9	6.9	6.9	6.9
HP	¾	¾	¾	¾	1	1	1	1
SHIP WEIGHT (LBS)	155	125	167	167	144	155	167	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	A	B	C	D	E	F	G	H
AVPTC24B14	45	16 $\frac{3}{8}$	17 $\frac{1}{2}$	18	15	14 $\frac{3}{16}$	8 $\frac{13}{16}$	11 $\frac{15}{16}$
AVPTC30C14	49	19 $\frac{15}{16}$	21	20	17	17 $\frac{11}{16}$	10 $\frac{1}{2}$	12 $\frac{3}{8}$
AVPTC36C14	49	19 $\frac{15}{16}$	21	20	17	17 $\frac{11}{16}$	10 $\frac{1}{2}$	12 $\frac{3}{8}$
AVPTC42D14	58	23 $\frac{5}{16}$	24 $\frac{1}{2}$	28 $\frac{3}{16}$	25 $\frac{3}{16}$	21 $\frac{3}{16}$	12 $\frac{5}{16}$	12 $\frac{3}{8}$
AVPTC48C14	49	19 $\frac{15}{16}$	21	20	17	17 $\frac{11}{16}$	10 $\frac{1}{2}$	12 $\frac{3}{8}$
AVPTC48D14	58	23 $\frac{5}{16}$	24 $\frac{1}{2}$	28 $\frac{3}{16}$	25 $\frac{3}{16}$	21 $\frac{3}{16}$	12 $\frac{5}{16}$	12 $\frac{3}{8}$
AVPTC60D14	58	23 $\frac{5}{16}$	24 $\frac{1}{2}$	28 $\frac{3}{16}$	25 $\frac{3}{16}$	21 $\frac{3}{16}$	12 $\frac{5}{16}$	12 $\frac{3}{8}$



MODEL	A	B	C	D	E	F	G	H
AVPTC25B14*	45	16 $\frac{3}{8}$	17 $\frac{1}{2}$	15 $\frac{1}{4}$	12	14 $\frac{1}{6}$	9 $\frac{1}{8}$	12 $\frac{3}{8}$
AVPTC29B14*	53 $\frac{7}{16}$	16 $\frac{3}{8}$	17 $\frac{1}{2}$	23 $\frac{11}{16}$	20 $\frac{1}{2}$	14 $\frac{1}{6}$	9 $\frac{1}{8}$	7 $\frac{1}{8}$
AVPTC31C14*	53 $\frac{7}{16}$	19 $\frac{1}{8}$	21	21 $\frac{13}{16}$	18 $\frac{3}{8}$	17 $\frac{11}{16}$	10 $\frac{13}{16}$	6 $\frac{13}{16}$
AVPTC37B14*	53 $\frac{7}{16}$	16 $\frac{3}{8}$	17 $\frac{1}{2}$	23 $\frac{11}{16}$	20 $\frac{1}{2}$	14 $\frac{1}{6}$	9 $\frac{1}{8}$	7 $\frac{1}{8}$
AVPTC37C14*	53 $\frac{7}{16}$	19 $\frac{1}{8}$	21	21 $\frac{13}{16}$	18 $\frac{3}{8}$	17 $\frac{11}{16}$	10 $\frac{13}{16}$	6 $\frac{13}{16}$
AVPTC37D14*	53 $\frac{7}{16}$	23 $\frac{5}{16}$	24 $\frac{1}{2}$	21 $\frac{1}{2}$	18 $\frac{5}{16}$	21 $\frac{3}{16}$	12 $\frac{3}{8}$	6 $\frac{1}{8}$
AVPTC49D14*	58	23 $\frac{5}{16}$	24 $\frac{1}{2}$	26 $\frac{3}{8}$	22 $\frac{3}{8}$	21 $\frac{3}{16}$	12 $\frac{3}{8}$	25 $\frac{1}{8}$
AVPTC59C14*	53 $\frac{7}{16}$	19 $\frac{1}{8}$	21	21 $\frac{13}{16}$	18 $\frac{3}{8}$	17 $\frac{11}{16}$	10 $\frac{13}{16}$	6 $\frac{13}{16}$
AVPTC59D14*	53 $\frac{7}{16}$	23 $\frac{5}{16}$	24 $\frac{1}{2}$	21 $\frac{1}{2}$	18 $\frac{5}{16}$	21 $\frac{3}{16}$	12 $\frac{3}{8}$	6 $\frac{1}{8}$
AVPTC61D14*	58	23 $\frac{5}{16}$	24 $\frac{1}{2}$	26 $\frac{3}{8}$	22 $\frac{3}{8}$	21 $\frac{3}{16}$	12 $\frac{3}{8}$	25 $\frac{1}{8}$

MODEL	SPEED TAP		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
AVPTC24B14	A	Low	415	415	410	410	405	405	400	400	400
	B	Low	575	570	565	560	560	555	555	550	550
	C	Low	685	670	660	650	645	635	630	625	620
	D	Low	795	780	765	755	745	735	725	720	715
	A	High	620	615	610	605	600	600	595	590	590
	B	High	865	850	835	825	815	805	795	790	785
	C	High	1005	990	970	960	945	935	920	915	910
	D	High	1165	1145	1125	1110	1100	1085	1070	1065	1055
AVPTC25B14AA	A	Low	460	445	445	425	410	400	400	400	395
	B	Low	620	610	600	605	600	590	585	575	565
	C	Low	700	695	690	690	690	690	675	665	660
	D	Low	750	750	745	745	740	730	720	710	700
	A	High	670	660	650	650	655	645	640	635	625
	B	High	870	865	855	850	840	840	840	830	835
	C	High	1000	990	980	975	965	965	955	955	945
	D	High	1105	1095	1085	1075	1065	1055	1050	1040	1030
AVPTC29B14AA AVPTC37B14AA	A	Low	390	385	375	360	350	335	325	315	305
	B	Low	545	540	545	540	540	540	535	530	525
	C	Low	610	620	630	635	630	625	620	625	625
	D	Low	720	735	740	740	735	730	725	715	705
	A	High	615	620	610	605	610	615	615	620	625
	B	High	790	795	795	795	795	790	800	795	785
	C	High	925	930	930	925	925	920	915	910	905
	D	High	1085	1085	1085	1080	1080	1075	1070	1065	1060
AVPTC30C14	A	Low	465	455	440	430	425	415	405	400	395
	B	Low	615	610	605	600	595	595	590	585	585
	C	Low	755	745	740	735	730	725	720	720	715
	D	Low	900	890	885	880	875	870	865	865	860
	A	High	620	615	610	610	605	605	600	600	600
	B	High	850	840	835	830	825	820	815	815	810
	C	High	1030	1025	1020	1015	1010	1010	1005	1000	1000
	D	High	1245	1235	1225	1220	1210	1205	1200	1195	1195
AVPTC31C14AA AVPTC37C14AA	A	Low	610	600	590	590	600	605	610	610	610
	B	Low	710	710	705	705	695	690	685	675	665
	C	Low	845	845	845	825	815	810	800	805	795
	D	Low	915	910	910	900	850	840	830	820	825
	A	High	885	880	880	860	850	840	830	820	830
	B	High	1055	1055	1055	1040	1030	1015	1005	995	985
	C	High	1275	1270	1265	1260	1250	1240	1230	1215	1205
	D	High	1365	1360	1360	1330	1300	1290	1280	1270	1255
AVPTC36C14	A	Low	515	505	500	485	465	460	450	425	410
	B	Low	715	705	700	685	675	670	660	640	630
	C	Low	950	935	930	910	895	890	875	855	835
	D	Low	1135	1125	1120	1105	1090	1085	1075	1055	1040
	A	High	740	730	725	710	695	690	680	660	645
	B	High	1015	1005	1000	985	965	960	950	925	910
	C	High	1345	1335	1330	1315	1300	1295	1290	1270	1255
	D	High	1615	1605	1600	1585	1570	1565	1555	1535	1520

Note: When applying a humidistat (normally closed), refer to the installation and operating instructions. The humidistat can adjust the cooling airflow to 85%.

MODEL	SPEED TAP		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
AVPTC37D14AA	A	Low	605	605	605	575	560	545	525	510	500
	B	Low	730	725	725	700	700	695	680	660	645
	C	Low	820	820	820	800	760	750	740	720	700
	D	Low	870	885	940	885	875	865	850	835	835
	A	High	910	905	900	870	870	860	855	845	845
	B	High	1085	1080	1080	1060	1060	1055	1045	1035	1020
	C	High	1230	1225	1225	1205	1205	1200	1190	1185	1180
	D	High	1405	1405	1405	1370	1365	1355	1345	1335	1330
AVPTC42D14	A	Low	600	580	560	545	535	520	505	500	490
	B	Low	795	780	765	750	740	730	720	715	710
	C	Low	1025	1010	995	985	970	960	950	945	940
	D	Low	1250	1235	1225	1215	1210	1200	1195	1190	1185
	A	High	835	815	800	790	780	765	755	750	745
	B	High	1115	1105	1090	1080	1070	1065	1055	1050	1045
	C	High	1445	1430	1420	1410	1405	1395	1390	1385	1380
	D	High	1775	1760	1750	1740	1735	1725	1720	1715	1710
AVPTC48C14	A	Low	510	505	500	490	485	480	475	465	455
	B	Low	710	705	700	690	680	680	670	660	650
	C	Low	940	935	930	920	910	910	905	890	880
	D	Low	1165	1160	1160	1155	1150	1145	1140	1135	1125
	A	High	735	730	725	715	705	700	695	685	675
	B	High	1010	1005	1000	990	985	980	975	965	955
	C	High	1340	1335	1330	1320	1310	1310	1305	1290	1280
	D	High	1675	1665	1660	1645	1635	1630	1620	1605	1590
AVPTC48D14	A	Low	910	910	900	895	885	880	875	870	850
	B	Low	1050	1045	1035	1030	1025	1020	1015	1010	1010
	C	Low	1155	1145	1140	1135	1130	1125	1120	1120	1115
	D	Low	1215	1210	1200	1195	1190	1185	1180	1175	1170
	A	High	1370	1360	1350	1345	1340	1330	1325	1325	1320
	B	High	1570	1560	1550	1545	1535	1530	1525	1520	1515
	C	High	1720	1710	1700	1695	1685	1680	1670	1670	1665
	D	High	1840	1820	1800	1785	1775	1760	1745	1740	1735
AVPTC49D14AA	A	Low	795	815	820	820	810	800	785	785	770
	B	Low	870	890	895	895	890	875	865	850	850
	C	Low	985	990	995	995	990	980	970	955	940
	D	Low	1040	1055	1055	1055	1045	1035	1025	1020	1005
	A	High	1195	1195	1195	1200	1195	1185	1175	1165	1155
	B	High	1325	1320	1320	1315	1315	1305	1295	1285	1275
	C	High	1460	1460	1455	1455	1455	1450	1440	1430	1420
	D	High	1520	1530	1530	1530	1530	1525	1515	1510	1495
AVPTC59C14AA	A	Low	635	620	610	600	600	600	600	600	600
	B	Low	790	805	810	810	805	805	795	810	800
	C	Low	930	940	940	935	930	925	920	915	905
	D	Low	1065	1065	1070	1065	1060	1050	1045	1035	1030
	A	High	870	880	875	875	870	865	860	860	845
	B	High	1230	1230	1225	1220	1210	1205	1200	1190	1180
	C	High	1420	1410	1410	1405	1395	1385	1380	1380	1370
	D	High	1615	1600	1595	1595	1585	1580	1570	1565	1555

Note: When applying a humidistat (normally closed), refer to the installation and operating instructions. The humidistat can adjust the cooling airflow to 85%.

MODEL	SPEED TAP		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
AVPTC59D14AA	A	Low	1030	1035	1040	1040	1030	1025	1015	995	970
	B	Low	1260	1260	1260	1260	1260	1250	1245	1235	1225
	C	Low	1330	1335	1330	1330	1325	1320	1315	1305	1295
	D	Low	1395	1395	1395	1390	1390	1385	1375	1365	1355
	A	High	1450	1445	1445	1435	1430	1425	1420	1410	1395
	B	High	1795	1790	1790	1785	1775	1765	1760	1750	1745
	C	High	1890	1890	1890	1880	1870	1865	1855	1850	1840
	D	High	1995	1995	1990	1985	1985	1975	1965	1955	1945
AVPTC60D14	A	Low	1205	1205	1210	1205	1205	1200	1195	1195	1195
	B	Low	1375	1370	1365	1360	1360	1355	1355	1350	1350
	C	Low	1445	1445	1450	1445	1445	1440	1440	1440	1435
	D	Low	1535	1530	1525	1520	1520	1515	1510	1510	1510
	A	High	1615	1615	1610	1610	1605	1605	1600	1600	1600
	B	High	1825	1820	1815	1810	1810	1805	1805	1805	1800
	C	High	1930	1925	1920	1915	1915	1910	1905	1905	1900
	D	High	2040	2030	2025	2020	2015	2010	2005	2005	2000
AVPTC61D14AA	A	Low	1080	1085	1080	1085	1080	1075	1070	1065	1055
	B	Low	1200	1200	1210	1210	1210	1210	1205	1205	1200
	C	Low	1290	1290	1280	1275	1280	1280	1270	1265	1265
	D	Low	1360	1355	1350	1355	1350	1345	1340	1340	1330
	A	High	1630	1630	1630	1625	1620	1615	1610	1600	1590
	B	High	1820	1820	1820	1815	1805	1795	1785	1780	1770
	C	High	1935	1930	1925	1920	1905	1900	1890	1875	1865
	D	High	2035	2030	2025	2020	2005	1995	1985	1960	1955

Note: When applying a humidistat (normally closed), refer to the installation and operating instructions. The humidistat can adjust the cooling airflow to 85%.

HTR kW	9	10	11	AVPTC 24B14	AVPTC 25B14	AVPTC 29B14	AVPTC 30C14	AVPTC 31C14	AVPTC 36C14	AVPTC 37B14	AVPTC 37C14	AVPTC 37D14
3	ON	ON	ON	730	550	550	730	---	NR	550	---	---
5	ON	ON	OFF	780	650	650	780	850	850	650	850	1240
6	ON	OFF	ON	850	700	700	850	900	900	700	900	1240
8	ON	OFF	OFF	950	800	800	950	1000	1000	800	1000	1240
10	OFF	ON	ON	1025	850	875	1025	1170	1200	875	1170	1240
15	OFF	ON	OFF	NR	875	875	NR	1345	1440	1050	1345	1520
19*	OFF	OFF	ON	NR	---	---	NR	1345	1500	---	1345	---
20				NR	---	---	NR	---	1500	---	---	1520
21 or 25*	OFF	OFF	OFF	NR	---	---	NR	---	NR	---	---	---

Note: Airflow data shown applies to the electric heat only in either legacy mode or communicating mode operation

--- indicates Not Rated

* Within thermostat user menu, CTK0* communicating thermostat will display 20kW for OFF- OFF- ON dipswitch selection, 21kW for OFF-OFF-OFF dipswitch selection.

† For match up with a 2 ton outdoor unit: Heater kit application shall not exceed 10 kW.
Airflow for 5 kW up to 10 kW heater kits shall be set to 850 cfm speed tap of ON-ON-ON.

†† For match up with a 3 ton outdoor unit: Heater kit application shall not exceed 15 kW.
Airflow for 5 kW up to 15 kW heater kits shall be set to 1300 cfm speed tap of ON-OFF-ON.

††† For match up with a 3.5 ton outdoor unit: Heater kit application shall not exceed 20 kW.
Airflow for 5 kW up to 20 kW heater kits shall be set to 1500 cfm speed tap of ON-OFF-OFF

** 3 kW heater kit is not applicable for this indoor application.

HTR kW	9	10	11	AVPTC 42D14†	AVPTC 48C14	AVPTC 48D14††	AVPTC 49D14 ††	AVPTC 59C14	AVPTC C59D14	AVPTC 60D14†††	AVPTC 61D14 †††
3	ON	ON	ON	850**	NR	NR	---	---	---	NR	---
5	ON	ON	OFF	1400	850	1400	1250	1170	1240	1620	1250
6	ON	OFF	ON	1630	900	1630	1300	1170	1240	1670	1300
8	ON	OFF	OFF	1630	1000	1630	1500	1170	1240	1720	1500
10	OFF	ON	ON	1670	1200	1670	1550	1170	1240	1750	1550
15	OFF	ON	OFF	1720	1440	1720	1720	1345	1520	1780	1780
19*	OFF	OFF	ON	NR	1500	NR	---	1345	---	NR	---
20				1800	1500	1815	---	---	1520	1850	1850
21 or 25*	OFF	OFF	OFF	NR	NR	1850	---	---	---	1850	1850

Note: Airflow data shown applies to the electric heat only in either legacy mode or communicating mode operation

--- indicates Not Rated

* Within thermostat user menu, CTK0* communicating thermostat will display 20kW for OFF- OFF- ON dipswitch selection, 21kW for OFF-OFF-OFF dipswitch selection.

† For match up with a 2 ton outdoor unit: Heater kit application shall not exceed 10 kW.
Airflow for 5 kW up to 10 kW heater kits shall be set to 850 cfm speed tap of ON-ON-ON.

†† For match up with a 3 ton outdoor unit: Heater kit application shall not exceed 15 kW.
Airflow for 5 kW up to 15 kW heater kits shall be set to 1300 cfm speed tap of ON-OFF-ON.

††† For match up with a 3.5 ton outdoor unit: Heater kit application shall not exceed 20 kW.
Airflow for 5 kW up to 20 kW heater kits shall be set to 1500 cfm speed tap of ON-OFF-OFF

** 3 kW heater kit is not applicable for this indoor application.

MODELS	CIRCUIT 1			CIRCUIT 2			SINGLE-POINT KIT	
	AMPS	MCA ¹	MOP ²	AMPS	MCA ¹	MOP ²	MCA ¹	MOP ²
AVPTC24B14AA	0.0/0.0	4.9/4.9	15/15	---	---	---	---	---
HKS*03XC*	10.8/12.5	18/21	20/25	---	---	---	---	---
HKS*05XC*	17.3/20.0	27/30	30/30	---	---	---	---	---
HKS*06XC*	21.7/25.0	32/36	35/40	---	---	---	---	---
HKS*08XC*	28.9/33.3	41/47	45/50	---	---	---	---	---
HKS*10XC*	34.7/40.0	48/55	50/60	---	---	---	---	---
AVPTC25B14AA	0/0	4.9/4.9	15/15	---	---	---	---	---
HKS*03XC*	10.8/12.5	18.4/21	20/25	---	---	---	---	---
HKS*05XC*	17.3/20	27/29.9	30/30	---	---	---	---	---
HKS*06XC*	21.7/25	32/36.1	35/40	---	---	---	---	---
HKS*08XC*	28.9/33.3	41/46.5	45/50	---	---	---	---	---
HKS*10XC*	34.7/40	48/54.9	50/60	---	---	---	---	---
HKS*15*##	34.7/40	48/54.9	50/60	17.3/20	21.7/25	25/25	69.9/79.9	70/80
AVPTC29B14AA	0/0	6.5/6.5	15/15	---	---	---	---	---
HKS*03XC*	10.8/12.5	20/22.1	20/25	---	---	---	---	---
HKS*05XC*	17.3/20	28.2/32	30/35	---	---	---	---	---
HKS*06XC*	21.7/25	33.6/38	35/40	---	---	---	---	---
HKS*08XC*	28.9/33.3	42.6/48	45/50	---	---	---	---	---
HKS*10XC*	34.7/40	49.8/57	50/60	---	---	---	---	---
HKS*15*##	34.7/40	49.8/57	50/60	17.3/20	21.7/25	25/25	71.5/81.5	80/90
AVPTC30C14AA	0.0/0.0	4.9/4.9	15/15	---	---	---	---	---
HKS*03XC*	10.8/12.5	18/21	20/25	---	---	---	---	---
HKS*05XC*	17.3/20.0	27/30	30/30	---	---	---	---	---
HKS*06XC*	21.7/25.0	32/36	35/40	---	---	---	---	---
HKS*08XC*	28.9/33.3	41/47	45/50	---	---	---	---	---
HKS*10XC*	34.7/40.0	48/55	50/60	---	---	---	---	---
AVPTC31C14AA	0/0	6.5/6.5	15/15	---	---	---	---	---
HKS*03XC*	---	---	---	---	---	---	---	---
HKS*05XC*	17.3/20	28.2/32	30/35	---	---	---	---	---
HKS*06XC*	21.7/25	33.6/38	35/40	---	---	---	---	---
HKS*08XC*	28.9/33.3	42.6/48	45/50	---	---	---	---	---
HKS*10XC*	34.7/40	49.8/57	50/60	---	---	---	---	---
HKS*15*##	34.7/40	49.8/57	50/60	17.3/20	21.7/25	25/25	71.5/81.5	80/90
HKSC19C*##	34.7/40	49.8/57	50/60	34.7/40	43.3/50	45/50	93.2/106.5	100/110
HKS*15XF*	0/0	6.5/6.5	15/15	30/34.6	37.5/43	40/45	---	---
AVPTC36C14AA	0.0/0.0	6.5/6.5	15/15	---	---	---	---	---
HKS*03XC*	10.8/12.5	20/22	20/25	---	---	---	---	---
HKS*05XC*	17.3/20.0	28/32	30/35	---	---	---	---	---
HKS*06XC*	21.7/25.0	34/38	35/40	---	---	---	---	---
HKS*08XC*	28.9/33.3	43/48	45/50	---	---	---	---	---
HKS*10XC*	34.7/40.0	50/57	50/60	---	---	---	---	---
HKSC15*##	34.7/40.0	50/57	50/60	17.3/20.0	22/25	25/25	72/82	80/90
HKSC19C#*	34.7/40.0	50/57	50/60	34.7/40	43/50	45/50	93/107	100/110
HKSC15XF*	0.0/0.0	6.5/6.5	15/15	30.0/34.6	38/43	40/45	---	---
HKSC20XF*	0.0/0.0	6.5/6.5	15/15	37.5/43.3	47/54	50/60	---	---
AVPTC37B14AA	0/0	6.5/6.5	15/15	---	---	---	---	---
HKS*03XC*	10.8/12.5	20/22.1	20/25	---	---	---	---	---
HKS*05XC*	17.3/20	28.2/32	30/35	---	---	---	---	---
HKS*06XC*	21.7/25	33.6/38	35/40	---	---	---	---	---
HKS*08XC*	28.9/33.3	42.6/48	45/50	---	---	---	---	---
HKS*10XC*	34.7/40	49.8/57	50/60	---	---	---	---	---
HKS*15*##	34.7/40	49.8/57	50/60	17.3/20	21.7/25	25/25	71.5/81.5	80/90

MODELS	CIRCUIT 1			CIRCUIT 2			SINGLE-POINT KIT	
	AMPS	MCA ¹	MOP ²	AMPS	MCA ¹	MOP ²	MCA ¹	MOP ²
AVPTC37C14AA	0/0	6.5/6.5	15/15	---	---	---	---	---
HKS*03XC*	---	---	---	---	---	---	---	---
HKS*05XC*	17.3/20	28.2/32	30/35	---	---	---	---	---
HKS*06XC*	21.7/25	33.6/38	35/40	---	---	---	---	---
HKS*08XC*	28.9/33.3	42.6/48	45/50	---	---	---	---	---
HKS*10XC*	34.7/40	49.8/57	50/60	---	---	---	---	---
HKS*15*##	34.7/40	49.8/57	50/60	17.3/20	21.7/25	25/25	71.5/81.5	80/90
HKSC19C*##	34.7/40	49.8/57	50/60	34.7/40	43.3/50	45/50	93.2/106.5	100/110
HKS*15XF*	0/0	6.5/6.5	15/15	30/34.6	37.5/43	40/45	---	---
AVPTC37D14AA	0/0	6.5/6.5	15/15	---	---	---	---	---
HKS*03XC*	---	---	---	---	---	---	---	---
HKS*05XC*	17.3/20	28.2/32	30/35	---	---	---	---	---
HKS*06XC*	21.7/25	33.6/38	35/40	---	---	---	---	---
HKS*08XC*	28.9/33.3	42.6/48	45/50	---	---	---	---	---
HKS*10XC*	34.7/40	49.8/57	50/60	---	---	---	---	---
HKS*15*##	34.7/40	49.8/57	50/60	17.3/20	21.7/25	25/25	71.5/81.5	80/90
HKSC20D#C*	34.7/40	49.8/57	50/60	34.7/40	43.3/50	45/50	93.2/106.5	100/110
HKS*15XF*	0/0	6.5/6.5	15/15	30/34.6	37.5/43	40/45	---	---
HKS*20XF*	0/0	6.5/6.5	15/15	37.5/43	47/54	50/60	---	---
AVPTC42D14AA	0.0/0.0	6.5/6.5	15/15	---	---	---	---	---
HKS*03XC*	10.8/12.5	20/22	20/25	---	---	---	---	---
HKS*05XC*	17.3/20.0	28/32	30/35	---	---	---	---	---
HKS*06XC*	21.7/25.0	34/38	35/40	---	---	---	---	---
HKS*08XC*	28.9/33.3	43/48	45/50	---	---	---	---	---
HKS*10XC*	34.7/40.0	50/57	50/60	---	---	---	---	---
HKSC15*##	34.7/40.0	50/57	50/60	17.3/20.0	22/25	25/25	72/82	80/90
HKSC20D#*	34.7/40.0	50/57	50/60	34.7/40	43/50	45/50	93/107	100/110
HKSC15XF*	0.0/0.0	6.5/6.5	15/15	30.0/34.6	38/43	40/45	---	---
HKSC20XF*	0.0/0.0	6.5/6.5	15/15	37.5/43.3	47/54	50/60	---	---
AVPTC48C14AA	0.0/0.0	6.5/6.5	15/15	---	---	---	---	---
HKS*03XC*	10.8/12.5	20/22	20/25	---	---	---	---	---
HKS*05XC*	17.3/20.0	28/32	30/35	---	---	---	---	---
HKS*06XC*	21.7/25.0	34/38	35/40	---	---	---	---	---
HKS*08XC*	28.9/33.3	43/48	45/50	---	---	---	---	---
HKS*10XC*	34.7/40.0	50/57	50/60	---	---	---	---	---
HKSC15*##	34.7/40.0	50/57	50/60	17.3/20.0	22/25	25/25	72/82	80/90
HKSC19C#*	34.7/40.0	50/57	50/60	34.7/40	43/50	45/50	93/107	100/110
HKSC15XF*	0.0/0.0	6.5/6.5	15/15	30.0/34.6	38/43	40/45	---	---
HKSC20XF*	0.0/0.0	6.5/6.5	15/15	37.5/43.3	47/54	50/60	---	---
AVPTC48D14AA	0.0/0.0	6.5/6.5	15/15	---	---	---	---	---
HKS*03XC*	10.8/12.5	20/22	20/25	---	---	---	---	---
HKS*05XC*	17.3/20.0	28/32	30/35	---	---	---	---	---
HKS*06XC*	21.7/25.0	34/38	35/40	---	---	---	---	---
HKS*08XC*	28.9/33.3	43/48	45/50	---	---	---	---	---
HKS*10XC*	34.7/40.0	50/57	50/60	---	---	---	---	---
HKSC15*##	34.7/40.0	50/57	50/60	17.3/20.0	22/25	25/25	72/82	80/90
HKSC20D#*	34.7/40.0	50/57	50/60	34.7/40	43/50	45/50	93/107	100/110
HKSC15XF*	0.0/0.0	6.5/6.5	15/15	30.0/34.6	38/43	40/45	---	---
HKSC20XF*	0.0/0.0	6.5/6.5	15/15	37.5/43.3	47/54	50/60	---	---
HKSC25DC*	52.0/60.0	74/84	80/90	34.7/40.0	43/50	45/50	117/134	125/150

HEAT KIT DATA (CONT.)

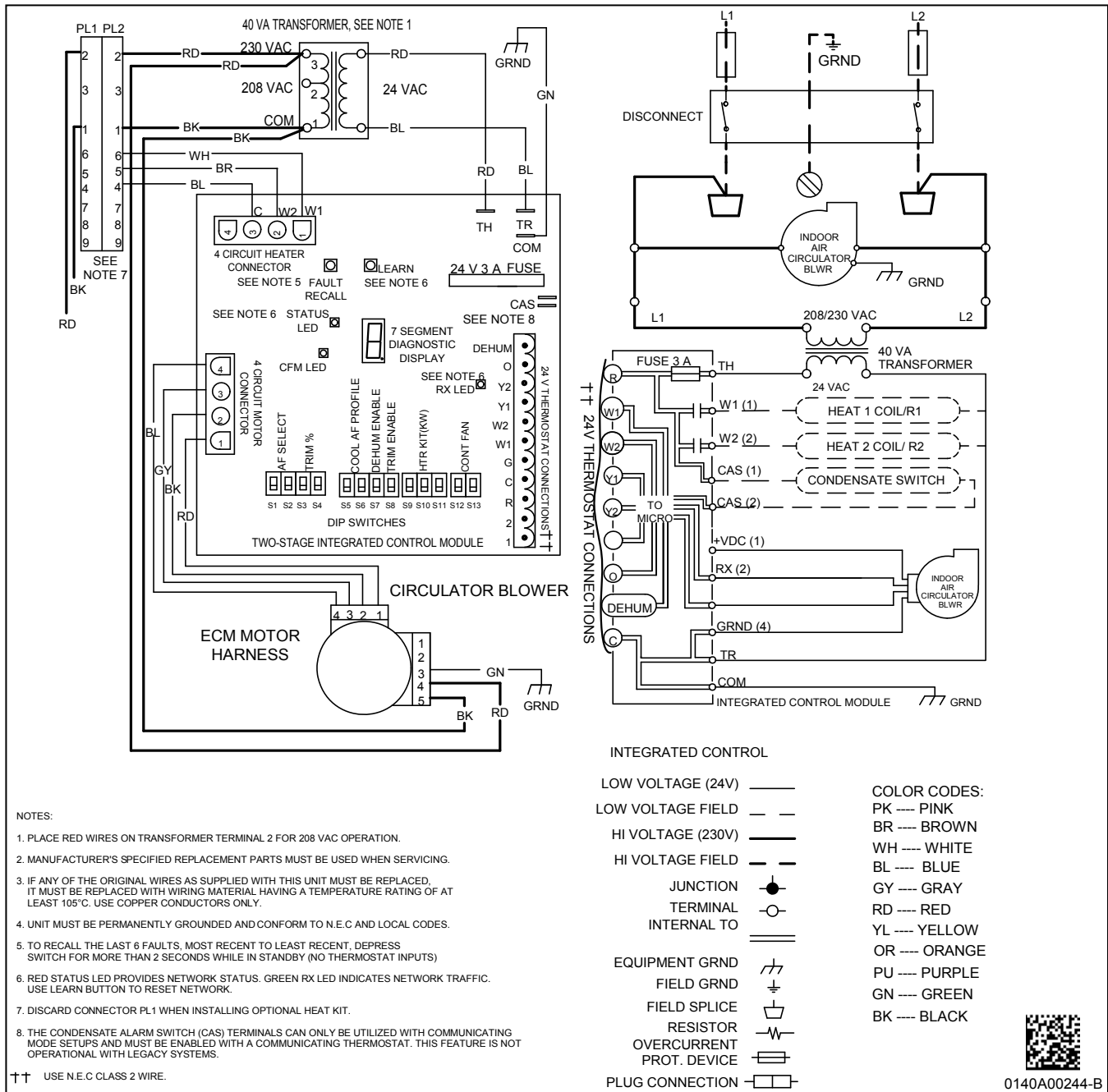
MODELS	CIRCUIT 1			CIRCUIT 2			SINGLE-POINT KIT	
	AMPS	MCA ¹	MOP ²	AMPS	MCA ¹	MOP ²	MCA ¹	MOP ²
AVPTC49D14AA	0/0	6.5/6.5	15/15	---	---	---	---	---
HKS*03XC*	---	---	---	---	---	---	---	---
HKS*05XC*	17.3/20	28.2/32	30/35	---	---	---	---	---
HKS*06XC*	21.7/25	33.6/38	35/40	---	---	---	---	---
HKS*08XC*	28.9/33.3	42.6/48	45/50	---	---	---	---	---
HKS*10XC*	34.7/40	49.8/57	50/60	---	---	---	---	---
HKS*15*##	34.7/40	49.8/57	50/60	17.3/20	21.7/25	25/25	71.5/81.5	80/90
HKSC20D#C*	---	---	---	---	---	---	---	---
HKS*15XF*	---	---	---	---	---	---	---	---
HKS*20XF*	---	---	---	---	---	---	---	---
HKSC25DC*	---	---	---	---	---	---	---	---
AVPTC59C14AA	0/0	8.6/8.6	15/15	---	---	---	---	---
HKS*03XC*	---	---	---	---	---	---	---	---
HKS*05XC*	17.3/20	30.3/34	35/35	---	---	---	---	---
HKS*06XC*	21.7/25	36/39.9	40/40	---	---	---	---	---
HKS*08XC*	28.9/33.3	45/50.3	45/60	---	---	---	---	---
HKS*10XC*	34.7/40	52/58.6	60/60	---	---	---	---	---
HKSC15*##	34.7/40	52/58.6	60/60	17.3/20	21.7/25	25/25	73.6/83.6	80/90
HKSC19C#*	34.7/40	52/58.6	60/60	34.7/40	43.3/50	45/50	95.3/108.6	100/110
HKSC15XF*	0/0	8.6/8.6	15/15	30/34.6	37.5/43	40/45	---	---
HKSC20XF*	---	---	---	---	---	---	---	---
AVPTC59D14AA	0/0	8.6/8.6	15/15	---	---	---	---	---
HKS*03XC*	---	---	---	---	---	---	---	---
HKS*05XC*	17.3/20	30.3/34	35/35	---	---	---	---	---
HKS*06XC*	21.7/25	36/39.9	40/40	---	---	---	---	---
HKS*08XC*	28.9/33.3	45/50.3	45/60	---	---	---	---	---
HKS*10XC*	34.7/40	52/58.6	60/60	---	---	---	---	---
HKS*15*##	34.7/40	52/58.6	60/60	17.3/20	21.7/25	25/25	73.6/83.6	80/90
HKSC20D#C*	34.7/40	52/58.6	60/60	34.7/40	43.3/50	45/50	95.3/108.6	100/110
HKS*15XF*	0/0	8.6/8.6	15/15	30/34.6	37.5/43	40/45	---	---
HKS*20XF*	0/0	8.6/8.6	15/15	37.5/43	47/54	50/60	---	---
AVPTC60D14AA	0.0/0.0	8.6/8.6	15/15	---	---	---	---	---
HKS*03XC*	10.8/12.5	22/24	25/25	---	---	---	---	---
HKS*05XC*	17.3/20.0	30/34	35/35	---	---	---	---	---
HKS*06XC*	21.7/25.0	36/40	40/40	---	---	---	---	---
HKS*08XC*	28.9/33.3	45/50	45/60	---	---	---	---	---
HKS*10XC*	34.7/40.0	52/59	60/60	---	---	---	---	---
HKSC15*##	34.7/40.0	52/59	60/60	17.3/20	22/25	25/25	74/84	80/90
HKSC20D#*	34.7/40.0	52/59	60/60	34.7/40.0	43/50	45/50	95/109	100/110
HKSC15XF*	0.0/0.0	8.6/8.6	15/15	30.0/34.6	38/43	40/45	---	---
HKSC20XF*	0.0/0.0	8.6/8.6	15/15	37.5/43.3	47/54	50/60	---	---
HKSC25DC*	52.0/60.0	74/84	80/90	35/40	43/50	45/50	117/134	125/150
AVPTC61D14AA	0/0	8.6/8.6	15/15	---	---	---	---	---
HKS*03XC*	---	---	---	---	---	---	---	---
HKS*05XC*	17.3/20	30.3/34	35/35	---	---	---	---	---
HKS*06XC*	21.7/25	36/39.9	40/40	---	---	---	---	---
HKS*08XC*	28.9/33.3	45/50.3	45/60	---	---	---	---	---
HKS*10XC*	34.7/40	52/58.6	60/60	---	---	---	---	---
HKS*15*##	34.7/40	52/58.6	60/60	17.3/20	21.7/25	25/25	73.6/83.6	80/90
HKSC20D#C*	34.7/40	52/58.6	60/60	34.7/40	43.3/50	45/50	95.3/108.6	100/110
HKS*15XF*	0/0	8.6/8.6	15/15	30/34.6	37.5/43	40/45	---	---
HKS*20XF*	0/0	8.6/8.6	15/15	37.5/43	47/54	50/60	---	---
HKSC25DC*	52/60	73.6/84	80/90	34.7/40	43.3/50	45/50	117/133.6	125/150

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

* Revision level that may or may not be designated



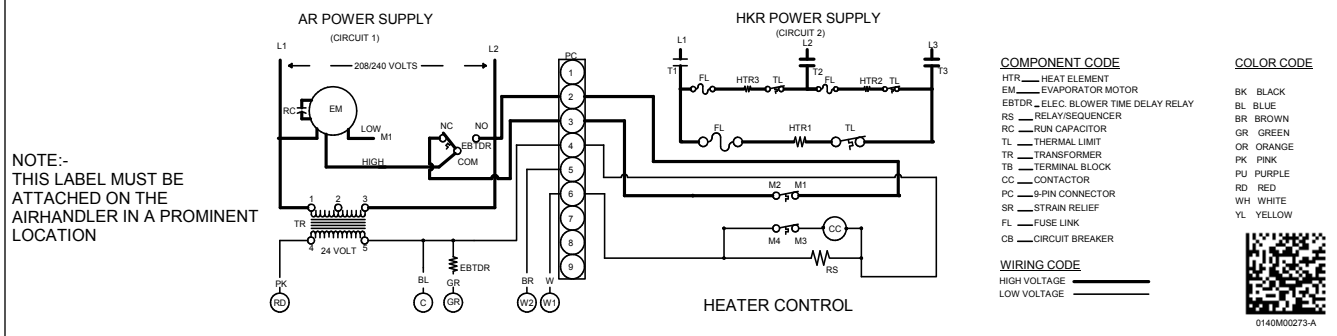
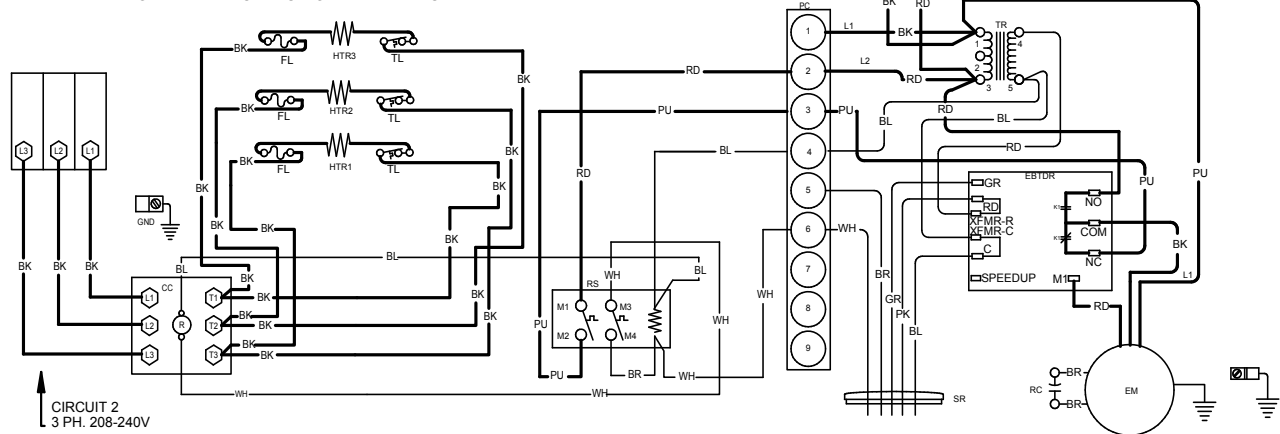
Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

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.

WIRING DIAGRAM – THREE-PHASE HEATER KIT

NOTE: WHEN INSTALLING HEATER KIT, ENSURE SPEED TAP MUST EXCEED OR EQUAL THE MINIMUM BLOWER SPEED (MBS) SPECIFIED FOR THE AIRHANDLER/HEATER KIT COMBINATION ON THIS UNIT'S SERIAL PLATE.
AFTER INSTALLING OPTIONAL HEAT KIT, MARK AN "X" IN THE ☐ PROVIDED BELOW.
NO MARK INDICATES NO HEAT KIT INSTALLED.



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



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
AVPTC24B14**	AVPTC30C14**	AVPTC42D14**
AVPTC25B14**	AVPTC36C14**	AVPTC48D14**
AVPTC29B14**	AVPTC48C14**	AVPTC60D14**
AVPTC37B14**	AVPTC31C14**	AVPTC37D14**
	AVPTC37C14**	AVPTC59D14**
	AVPTC59C14**	AVPTC49D14**
		AVPTC61D14**

FILTERS

CHASSIS	PART #	SIZE
B	ALFH16201E	16.0" x 20.0"
C	ALFH1912201E	19.5" x 20.0"
D	ALFH20231E	23.0" x 20.0"

SINGLE POINT KIT **

MODEL	HKR-15C	HKR-20C	HKR-21C
SPW-01	X	X	X

** 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.

NOTES