

BUILT TO A HIGHER STANDARD[®]

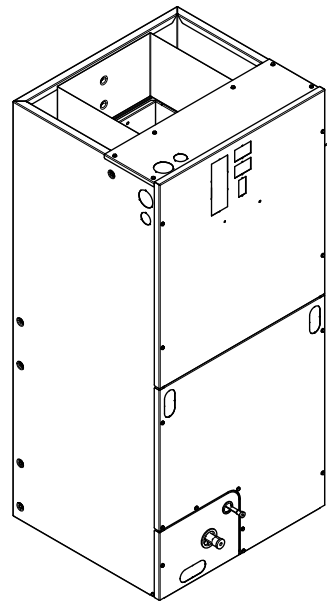
American Standard[®]

HEATING & AIR CONDITIONING

Product Data

Variable Speed Convertible Air Handlers 2 to 5 Tons

5TEMCB02AV21DA
5TEMCB03AV31DA
5TEMCD04AV31DA
5TEMCD05AV41DA
5TEMCD06AV41DA
5TEMCD07AV51DA
5TEMCD07BV51DA



Note: Graphics in this document are for representation only.
Actual model may differ in appearance.

Introduction

The 5TEMC series air handler is designed for installation in a closet, utility room, alcove, basement, crawlspace, or attic. These versatile units are applicable to air conditioning and heat pump applications. Several models are available to meet the specific requirements of the outdoor equipment. Field installed electric resistance heaters are available.

Diagnostic Mobile App



The Diagnostics Mobile App is available by scanning a QR code located inside this unit or by searching for the Link Diagnostics App in the App Store.

Notes:

- *This unit can be used in Link Communicating mode or 24 volt mode.*
- *Use Diagnostics App to configure blower delays, and accessories in 24 volt mode.*

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Revision History

- Updated model numbers across the document.
- Updated the table note (a) in the Product Specification chapter.
- Updated the Field Wiring chapter.
- Updated TEM Convertibility chapter name to Unit Convertibility.

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Features and Benefits

- Link™ Communicating or 24v control
- Painted metal cabinet with captured foil face insulation
- 2% or less air leakage
- R-4.2 Insulating Value
- Multi-Position UP/Down Flow, Horizontal Left /Right
- ALL Aluminum Coil
- Electric Heaters with polarized plug connections (sold as accessory)
- R-454B Thermal Expansion Valve
- Variable Speed ECM Motor
- Low Voltage Pigtail Connections
- Draw Through Design
- Horizontal Drain Pan
- Single Color
- Fused 24v Power
- 5 Year Base Limited Warranty
- 10 Year Registered Limited Warranty
- Optional extended warranty available

Optional Equipment

Table 1. Optional equipment

Accessory Number	Description	Fits Cabinet Size (in.)
BAYHTR1504BRK	Electric Heater, 4KW, Breaker, 24v Control, 1 Ph	18.5 and 23.5
BAYHTR1504LUG	Electric Heater, 4KW, Lug, 24v Control, 1 Ph	18.5 and 23.5
BAYHTR1505BRK	Electric Heater, 5KW, Breaker, 24v Control, 1 Ph	18.5 and 23.5
BAYHTR1505LUG	Electric Heater, 5KW, Lug, 24v Control, 1 Ph	18.5 and 23.5
BAYHTR1508BRK	Electric Heater, 8KW, Breaker, 24v Control, 1 Ph	18.5 and 23.5
BAYHTR1508LUG	Electric Heater, 8KW, Lug, 24v Control, 1 Ph	18.5 and 23.5
BAYHTR1510BRK	Electric Heater, 10KW, Breaker, 24v Control, 1 Ph	18.5 and 23.5
BAYHTR1510LUG	Electric Heater, 10KW, Lug, 24v Control, 1 Ph	18.5 and 23.5
BAYHTR3510LUG	Electric Heater, 10KW, Lug, 24v Control, 3 Ph	18.5 and 23.5
BAYHTR1517BRK	Electric Heater, 15KW, Breaker, 24v Control, 1 Ph	18.5 and 23.5
BAYHTR3517LUG	Electric Heater, 15KW, Lug, 24v Control, 3 Ph	18.5 and 23.5
BAYHTR1523BRK	Electric Heater, 20KW, Breaker, 24v Control, 1 Ph	23.5
BAYHTR1525BRK	Electric Heater, 25KW, Breaker, 24v Control, 1 Ph	23.5
BAYTEMSPFG1A	Supply Duct Flange Kit	18.5 and 23.5
BAYSPEKT201A	Single Point Power Entry Kit	18.5 and 23.5
TAYBASE185	Air Handler Downflow Sub-Bases	18.5
TAYBASE235 (TAYBASE 100)	Air Handler Downflow Sub-Bases	23.5
BAYSF1185AAA	Slim Fit Filter Box	18.5
BAYSF1235AAA	Slim Fit Filter Box	23.5

Table 1. Optional equipment (continued)

Accessory Number	Description	Fits Cabinet Size (in.)
FLRSF1185	1 in. Slim Fit Replacement Filter, 17.75 in. x 19.75 in., Qty 12	18.5
FLRSF1235	1 in. Slim Fit Replacement Filter, 22.75 in. x 19.75 in., Qty 12	23.5
TEMBRKSEALT01A	Breaker Seal Kit for sure with BAYHTR15 4kW — 20kW Heaters	18.5 and 23.5
TEMBRKSEALT25A	Breaker Seal Kit for use with 25 kW electric heaters & heater kits used with BAYSPEKT201	18.5 and 23.5
BAYTEMDFKT1A	Downflow Condensate Management Kit	18.5 and 23.5
BAYAHMIKIT001	Air handler Electronic Noise Kit used on Variable Speed Blower Motor	18.5 and 23.5

Product Specifications

Table 2. Models – 5TEMCB02AV21DA, 5TEMCB03AV31DA, and 5TEMCD04AV31DA

Model	5TEMCB02AV21DA	5TEMCB03AV31DA	5TEMCD04AV31DA
Family Description	R-454B Variable Speed Air Handler	R-454B Variable Speed Air Handler	R-454B Variable Speed Air Handler
Application Configuration	4-Way	4-Way	4-Way
Rated Capacity Range (BTUH)	18K - 24K	18K - 30K	24K - 42K
System Control Type	Link Communicating or 24v	Link Communicating or 24v	Link Communicating or 24v
Power Conn. - V/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60
Max Breaker Size, Without Electric Heater (Amps) ^(a)	15	15	15
Max Breaker Size, With Electric Heater (Amps)	60	60	60
Coil Type	All-Aluminum Plate Fin	All-Aluminum Plate Fin	All-Aluminum Plate Fin
Refrigerant Type	R-454B	R-454B	R-454B
Refrigerant Control	TXV	TXV	TXV
Refrigerant Line Connection - Gas (in.)	3/4	3/4	7/8
Refrigerant Line Connection - Liquid (in.)	3/8	3/8	3/8
Blower Type	Direct Drive Centrifugal	Direct Drive Centrifugal	Direct Drive Centrifugal
Configuration	Draw Through	Draw Through	Draw Through
Dimensions (Diameter x Width (in.))	11 x 8	11 x 8	11 x 8
Motor Type	Variable Speed	Variable Speed	Variable Speed
Nominal CFM ^(b)	800	1000	1200
Speed (RPM)	1050	1050	1050
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60
Full Load Amps	2.8	3.9	3.9
Filter Rack (Yes, No)	No	No	No
Dimensions (Length x Width (in.))	—	—	—
Duct Connections	L x W	L x W	L x W
Supply (in.)	12.15 x 16.50	12.15 x 16.50	12.15 x 21.50
Return (in.)	18.75 x 16.75	18.75 x 16.75	18.75 x 21.75
Drain Conn. Size (in.)	3/4 NPT	3/4 NPT	3/4 NPT
Dimensions	H x W x D	H x W x D	H x W x D
Uncrated (in.)	46-3/4 x 18-1/2 x 21-1/8	46-3/4 x 18-1/2 x 21-1/8	51-3/8 x 23-1/2 x 21-1/8
Crated (in.)	48-1/4 x 22-1/2 x 25-1/2	48-1/4 x 22-1/2 x 25-1/2	52-3/4 x 27-1/2 x 25-1/2
Weight — Shipping/Net (lbs.)	126/117	126/117	155/144

^(a) Maximum overcurrent protection is dependent on which electric heater is installed. See [Electrical Data](#), p. 13.

^(b) For CFM versus external static pressure (in. w.c.), see [Performance Data](#), p. 9

Table 3. Models – 5TEMCD05AV41DA, 5TEMCD06AV41DA, 5TEMCD07AV51DA, and 5TEMCD07BV51DA

Model	5TEMCD05AV41DA	5TEMCD06AV41DA	5TEMCD07AV51DA	5TEMCD07BV51DA
Family Description	R-454B Variable Speed Air Handler	R-454B Variable Speed Air Handler	R-454B Variable Speed Air Handler	R-454B Variable Speed Air Handler
Application Configuration	4-Way	4-Way	4-Way	4-Way
Rated Capacity Range (BTUH)	36K - 48K	36K - 60K	42K - 60K	42K - 60K
System Control Type	Link Communicating or 24v	Link Communicating or 24v	Link Communicating or 24v	Link Communicating or 24V
Power Conn. - V/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Max Breaker Size, Without Electric Heater (Amps)	15	15	15	15
Max Breaker Size, With Electric Heater (Amps) ^(a)	60	60	60	60
Coil Type	All-Aluminum Plate Fin	All-Aluminum Plate Fin	All-Aluminum Plate Fin	All-Aluminum Plate Fin
Refrigerant Type	R-454B	R-454B	R-454B	R-454B
Refrigerant Control	TXV	TXV	TXV	TXV
Refrigerant Line Connection - Gas (in.)	7/8	7/8	7/8	7/8
Refrigerant Line Connection - Liquid (in.)	3/8	3/8	3/8	3/8
Blower Type	Direct Drive Centrifugal	Direct Drive Centrifugal	Direct Drive Centrifugal	Direct Drive Centrifugal
Configuration	Draw Through	Draw Through	Draw Through	Draw Through
Dimensions (Diameter x Width (in.))	11 x 8	11 x 8	11 x 8	11 x 8
Motor Type	Variable Speed	Variable Speed	Variable Speed	Variable Speed
Nominal CFM ^(b)	1400	1600	2000	2000
Speed (RPM)	1050	1050	1050	1050
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
Full Load Amps	3.9	5.7	5.7	6.9
Filter Rack (Yes, No)	No	No	No	No
Dimensions (Length x Width (in.))	—	—	—	—
Duct Connections	L x W	L x W	L x W	L x W
Supply (in.)	12.15 x 21.50	12.15 x 21.50	12.15 x 21.50	12.15 x 21.50
Return (in.)	18.75 x 21.75	18.75 x 21.75	18.75 x 21.75	18.75 x 21.75
Drain Conn. Size (in.)	3/4 NPT	3/4 NPT	3/4 NPT	3/4 NPT
Dimensions	H x W x D	H x W x D	H x W x D	H x W x D
Uncrated (in.)	51-3/8 x 23-1/2 x 21-1/8	57-3/8 x 23-1/2 x 21-1/8	57-3/8 x 23-1/2 x 21-1/8	57-3/8 x 23-1/2 x 21-1/8
Crated (in.)	52-3/4 x 27-1/2 x 25-1/2	58-1/8 x 25-7/8 x 25-1/2	58-1/8 x 25-7/8 x 25-1/2	58-1/8 x 25-7/8 x 25-1/2
Weight — Shipping/Net (lbs.)	155/144	185/174	185/174	187/176

^(a) Maximum overcurrent protection is dependent on which electric heater is installed. See [Electrical Data](#), p. 13.

^(b) For CFM versus external static pressure (in. w.c.), see [Performance Data](#), p. 9

Heater Pressure Drop Table

Table 4. Heater pressure drop

Airflow CFM	Number of Racks					Heater Racks	
	1	2	3	4		Heater Model	No. of Racks
	Air Pressure Drop — Inches W.G.						
1800	0.02	0.04	0.06	0.14		BAYHTR1504	1
1700	0.02	0.04	0.06	0.14		BAYHTR1505	1
1600	0.02	0.04	0.06	0.13		BAYHTR1508	2
1500	0.02	0.04	0.06	0.12		BAYHTR1510	2
1400	0.02	0.04	0.06	0.12		BAYHTR1517	3
1300	0.02	0.04	0.05	0.11		BAYHTR3510	3
1200	0.01	0.04	0.05	0.10		BAYHTR3517	3
1100	0.01	0.03	0.05	0.09		BAYHTR1523	4
1000	0.01	0.03	0.04	0.09		BAYHTR1525	4
900	0.01	0.03	0.04	0.08		—	—
800	0.01	0.03	—	—		—	—
700	0.01	0.02	—	—		—	—
600	0.01	0.02	—	—		—	—

Performance Data

Table 5. Model – 5TEMCB02AV21DA

5TEMCB02AV21DA Airflow Performance															
Outdoor Multiplier (Tons)	Cooling Airflow Setting	Airflow Power	External Static Pressure (Constant Cfm / Torque)				Constant CFM Mode / Constant Torque Mode				Heating Airflow Setting	Airflow Power	External Static Pressure		
			0.1	0.3	0.5	0.7	0.9	0.1	0.3	0.5			0.7	0.9	
1.5 Tons	290	CFM	430 / 538	430 / 415	430 / 264	430 / NA	430 / NA	290	CFM	434	419	419	403	384	
	CFM/ton	Watts	50 / 39	75 / 48	95 / 43	110 / NA	145 / NA	CFM/ton	Watts	34	64	96	130	167	
	350	CFM	520 / 620	520 / 514	520 / 398	520 / NA	510 / NA	350	CFM	521	512	514	500	485	
	CFM/ton	Watts	60 / 53	90 / 64	120 / 61	135 / NA	175 / NA	CFM/ton	Watts	44	77	112	153	196	
	400	CFM	590 / 688	590 / 593	590 / 493	590 / NA	590 / NA	400	CFM	595	589	595	584	573	
	CFM/ton	Watts	75 / 67	105 / 80	140 / 80	160 / NA	205 / NA	CFM/ton	Watts	56	91	127	173	222	
	450	CFM	670 / 758	670 / 671	660 / 581	660 / NA	660 / NA	450	CFM	668	667	675	668	660	
	CFM/ton	Watts	85 / 85	125 / 100	160 / 102	190 / NA	235 / NA	CFM/ton	Watts	71	107	145	196	250	
	290	CFM	570 / 670	570 / 573	570 / 469	570 / NA	568 / NA	290	CFM	575	569	573	561	549	
	CFM/ton	Watts	60 / 63	90 / 76	125 / 75	165 / NA	215 / NA	CFM/ton	Watts	53	87	123	167	215	
2 Tons	350	CFM	690 / 781	690 / 696	690 / 609	690 / 518	680 / NA	350	CFM	693	693	702	696	689	
	CFM/ton	Watts	85 / 91	120 / 107	160 / 110	210 / 98	259 / NA	CFM/ton	Watts	76	113	152	204	259	
	400	CFM	790 / 875	790 / 798	790 / 720	780 / 639	780 / 555	400	CFM	791	795	805	803	798	
	CFM/ton	Watts	110 / 122	150 / 140	195 / 145	250 / 137	301 / 115	CFM/ton	Watts	103	143	184	240	301	
	450	CFM	890 / 971	890 / 899	880 / 827	880 / 754	880 / 680	450	CFM	889	895	902	899	891	
	CFM/ton	Watts	145 / 161	185 / 181	235 / 189	295 / 184	347 / 184	CFM/ton	Watts	138	181	226	284	347	
	290	CFM	720 / 823	720 / 741	710 / 659	710 / 573	710 / 481	290	CFM	717	718	728	723	717	
	CFM/ton	Watts	90 / 104	140 / 120	170 / 124	220 / 115	260 / 91	CFM/ton	Watts	82	120	159	212	269	
	350	CFM	870 / 963	860 / 892	873 / 819	860 / 746	850 / 671	350	CFM	865	871	879	876	869	
	CFM/ton	Watts	140 / 157	182 / 177	235 / 185	280 / 180	330 / 161	CFM/ton	Watts	128	170	214	272	335	
2.5 Tons †	390 †	CFM	958 / 1075	975 / 1000	946 / 878	871 / 711	802 / 617	390 †	CFM	958	979	957	878	822	
	CFM/ton	Watts	147 / 170	203 / 195	269 / 211	342 / 197	403 / 189	CFM/ton	Watts	138	192	257	336	406	
	400	CFM	980 / 1100	993 / 1019	958 / 889	875 / 714	801 / 616	400	CFM	980	998	969	882	821	
	CFM/ton	Watts	157 / 181	213 / 205	280 / 219	357 / 205	418 / 196	CFM/ton	Watts	146	202	268	351	422	
	450	CFM	980 / 1100	993 / 1019	958 / 889	875 / 714	801 / 616	450	CFM	980	998	969	882	821	
	CFM/ton	Watts	157 / 181	213 / 205	280 / 219	357 / 205	418 / 196	CFM/ton	Watts	146	202	268	351	422	
	† Factory Setting. - Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower. - Torque mode will reduce airflow when static is above approximately 0.3-inch water column. - All heating modes default to Constant CFM. - Cooling airflow values are with wet coil, no filter.														

Performance Data

Table 6. Model – 5TEMCB03AV31DA

5TEMCB03AV31DA Airflow Performance															
Outdoor Multiplier (Tons)	Cooling Airflow Setting	Airflow Power	External Static Pressure (Constant Cfm / Torque)					Constant CFM Mode / Constant Torque Mode		Heating Airflow Setting	Airflow Power	External Static Pressure			
			0.1	0.3	0.5	0.7	0.9	0.1	0.3			0.5	0.7		
1.5 Tons	290 CFM/ton	CFM	430 / 538	430 / 415	430 / 264	430 / NA	430 / NA	290 CFM/ton	CFM	434	419	419	403	384	
	350 CFM/ton	Watts	50 / 39	75 / 48	95 / 43	110 / NA	145 / NA	350 CFM/ton	Watts	34	64	96	130	167	
	400 CFM/ton	Watts	60 / 53	90 / 64	120 / 61	135 / NA	175 / NA	400 CFM/ton	Watts	44	77	112	153	196	
	450 CFM/ton	Watts	590 / 688	590 / 593	590 / 493	590 / NA	590 / NA	450 CFM/ton	Watts	595	589	595	584	573	
	450 CFM/ton	Watts	75 / 67	105 / 80	140 / 80	160 / NA	205 / NA	450 CFM/ton	Watts	56	91	127	173	222	
	450 CFM/ton	Watts	670 / 758	670 / 671	660 / 581	660 / NA	660 / NA	450 CFM/ton	Watts	668	667	675	668	660	
2 Tons	290 CFM/ton	CFM	85 / 85	125 / 100	160 / 102	190 / NA	235 / NA	290 CFM/ton	CFM	71	107	145	196	250	
	350 CFM/ton	Watts	60 / 63	90 / 76	125 / 75	165 / NA	215 / NA	350 CFM/ton	Watts	53	87	123	167	215	
	400 CFM/ton	Watts	690 / 781	690 / 696	690 / 609	690 / 518	680 / NA	400 CFM/ton	Watts	693	693	702	696	689	
	450 CFM/ton	Watts	85 / 91	120 / 107	160 / 110	210 / 98	259 / NA	450 CFM/ton	Watts	76	113	152	204	259	
	400 CFM/ton	Watts	790 / 875	790 / 798	790 / 720	780 / 639	780 / 555	400 CFM/ton	Watts	791	795	805	803	798	
	450 CFM/ton	Watts	110 / 122	150 / 140	195 / 145	250 / 137	301 / 115	450 CFM/ton	Watts	103	143	184	240	301	
2.5 Tons	290 CFM/ton	CFM	145 / 161	185 / 181	235 / 189	295 / 184	347 / 184	290 CFM/ton	CFM	138	181	226	284	347	
	350 CFM/ton	Watts	720 / 823	720 / 741	710 / 659	710 / 573	710 / 481	350 CFM/ton	Watts	717	718	728	723	717	
	400 CFM/ton	Watts	90 / 104	140 / 120	170 / 124	220 / 115	260 / 91	400 CFM/ton	Watts	82	120	159	212	269	
	450 CFM/ton	Watts	870 / 963	860 / 892	873 / 819	860 / 746	850 / 671	450 CFM/ton	Watts	865	871	879	876	869	
	390 CFM/ton	Watts	140 / 157	182 / 177	235 / 185	280 / 180	330 / 161	390 CFM/ton	Watts	128	170	214	272	335	
	390 CFM/ton	Watts	969 / 1087	985 / 1011	993 / 921	992 / 809	1000 / 770	390 CFM/ton	Watts	969	989	1004	999	1026	
3 Tons †	290 CFM/ton	CFM	143 / 166	198 / 191	262 / 205	329 / 189	399 / 187	290 CFM/ton	CFM	134	188	250	323	402	
	350 CFM/ton	Watts	993 / 1114	1008 / 1035	1017 / 943	1015 / 828	1022 / 787	350 CFM/ton	Watts	993	1013	1028	1023	1049	
	400 CFM/ton	Watts	152 / 176	208 / 200	273 / 214	341 / 196	413 / 194	400 CFM/ton	Watts	142	197	261	335	416	
	450 CFM/ton	Watts	993 / 1114	1008 / 1035	1017 / 943	1015 / 828	1022 / 787	450 CFM/ton	Watts	993	1013	1028	1023	1049	
	290 CFM/ton	Watts	152 / 176	208 / 200	273 / 214	341 / 196	413 / 194	290 CFM/ton	Watts	142	197	261	335	416	
	290 CFM/ton	Watts	868 / 974	884 / 907	891 / 826	893 / 729	894 / 688	290 CFM/ton	Watts	868	888	901	900	917	
3 Tons †	350 CFM/ton	Watts	911 / 1128	1008 / 1035	1017 / 943	1015 / 828	1022 / 787	350 CFM/ton	Watts	103	154	211	277	347	
	400 CFM/ton	Watts	993 / 1114	1008 / 1035	1017 / 943	1015 / 828	1022 / 787	400 CFM/ton	Watts	993	1013	1028	1023	1049	
	450 CFM/ton	Watts	152 / 176	208 / 200	273 / 214	341 / 196	413 / 194	450 CFM/ton	Watts	142	197	261	335	416	
	390 † CFM/ton	Watts	993 / 1114	1008 / 1035	1017 / 943	1015 / 828	1022 / 787	390 † CFM/ton	Watts	993	1013	1028	1023	1049	
	400 CFM/ton	Watts	152 / 176	208 / 200	273 / 214	341 / 196	413 / 194	400 CFM/ton	Watts	142	197	261	335	416	
	450 CFM/ton	Watts	993 / 1114	1008 / 1035	1017 / 943	1015 / 828	1022 / 787	450 CFM/ton	Watts	993	1013	1028	1023	1049	
• † Factory Setting. • Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower. • In horizontal and downflow applications, airflow should be limited to 1000 CFM due to inadequate blowoff. • Torque mode will reduce airflow when static is above approximately 0.3-inch water column. • All heating modes default to Constant CFM. • Cooling airflow values are with wet coil, no filter.															

- † Factory Setting.
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- In horizontal and downflow applications, airflow should be limited to 1000 CFM due to condensate blowoff.
- Torque mode will reduce airflow when static is above approximately 0.3-inch water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter.

Table 7. Models – 5TEMCD04AV31DA and 5TEMCD05AV41DA

5TEMCD04AV31DA and 5TEMCD05AV41DA Airflow Performance															
Outdoor Multiplier (Tons)	Cooling Airflow Setting	Airflow Power	External Static Pressure (Constant CFM / Torque)					Heating Airflow Setting	Airflow Power	Constant CFM Mode / Constant Torque Mode					
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9	
3 Tons	290	CFM	864 / 1015	856 / 883	851 / 772	850 / 676	820 / 590	290	CFM		0.1	0.3	0.5	0.7	0.9
	CFM/ton	Watts	80 / 96	119 / 121	170 / 141	217 / 160	276 / 182	CFM/ton	Watts		76	119	168	219	276
	350	CFM	1037 / 1179	1037 / 1059	1040 / 957	1030 / 866	1030 / 784	350	CFM		1037	1037	1040	1039	1032
	CFM/ton	Watts	120 / 137	170 / 164	224 / 185	265 / 204	334 / 221	CFM/ton	Watts		110	158	213	271	334
	400	CFM	1184 / 1317	1187 / 1207	1193 / 1110	1180 / 1024	1190 / 945	400	CFM		1184	1187	1193	1196	1197
	CFM/ton	Watts	160 / 180	215 / 209	275 / 233	325 / 251	380 / 268	CFM/ton	Watts		149	200	260	324	393
3.5 Tons	450	CFM	1334 / 1457	1336 / 1354	1343 / 1263	1340 / 1181	1340 / 1105	450	CFM		1334	1336	1343	1348	1353
	CFM/ton	Watts	205 / 232	265 / 265	335 / 290	395 / 310	460 / 327	CFM/ton	Watts		198	254	318	388	461
	290	CFM	1015 / 1147	1000 / 1025	1000 / 921	1000 / 829	1000 / 746	290	CFM		1003	1002	1004	1002	992
	CFM/ton	Watts	115 / 128	160 / 155	205 / 176	255 / 194	309 / 212	CFM/ton	Watts		103	149	203	260	322
	350	CFM	1210 / 1341	1210 / 1231	1210 / 1136	1210 / 1050	1210 / 971	350	CFM		1209	1212	1218	1222	1224
	CFM/ton	Watts	165 / 188	220 / 218	280 / 241	335 / 260	395 / 277	CFM/ton	Watts		157	208	269	334	403
4 Tons	400	CFM	1380 / 1503	1380 / 1403	1390 / 1314	1390 / 1233	1390 / 1159	400	CFM		1384	1386	1393	1397	1402
	CFM/ton	Watts	195 / 252	285 / 286	355 / 312	420 / 332	485 / 349	CFM/ton	Watts		217	275	340	412	487
	450	CFM	1560 / 1667	1560 / 1575	1570 / 1492	1570 / 1416	1579 / 1345	450	CFM		1563	1563	1566	1566	1564
	CFM/ton	Watts	295 / 332	365 / 369	440 / 398	515 / 421	595 / 439	CFM/ton	Watts		293	362	429	507	588
	290	CFM	1140 / 1304	1140 / 1192	1140 / 1095	1140 / 1008	1150 / 929	290	CFM		1144	1147	1152	1155	1154
	CFM/ton	Watts	145 / 175	200 / 204	255 / 227	310 / 246	365 / 263	CFM/ton	Watts		138	188	247	309	376
5 Tons	350	CFM	1380 / 1525	1380 / 1426	1390 / 1338	1390 / 1257	1390 / 1183	350	CFM		1384	1386	1393	1397	1402
	CFM/ton	Watts	220 / 262	285 / 295	355 / 322	420 / 343	485 / 360	CFM/ton	Watts		217	275	340	412	487
	400	CFM	1590 / 1711	1590 / 1621	1590 / 1539	1590 / 1464	1600 / 1394	400	CFM		1589	1588	1591	1589	1585
	CFM/ton	Watts	305 / 356	380 / 267	455 / 356	535 / 267	610 / 466	CFM/ton	Watts		305	376	444	522	604
	450	CFM	1790 / 1898	1790 / 1816	1800 / 1741	1800 / 1670	1810 / 1604	450	CFM		1800	1794	1791	1773	1745
	CFM/ton	Watts	410 / 474	495 / 597	585 / 548	670 / 575	760 / 597	CFM/ton	Watts		419	509	575	660	749
5Tons †	290	CFM	1430 / 1571	1440 / 1475	1440 / 1388	1440 / 1309	1440 / 1236	290	CFM		1435	1436	1442	1446	1450
	CFM/ton	Watts	240 / 283	310 / 318	375 / 345	445 / 367	515 / 384	CFM/ton	Watts		237	297	364	437	514
	350 †	CFM	1740 / 1851	1740 / 1767	1750 / 1690	1750 / 1619	1760 / 1552	350 †	CFM		1747	1742	1740	1728	1707
	CFM/ton	Watts	380 / 442	465 / 482	550 / 514	635 / 541	720 / 562	CFM/ton	Watts		388	472	539	623	710
	400	CFM	2000 / 2087	2000 / 2012	2010 / 1942	1980 / 1873	1870 / 317	400	CFM		2015	2007	1995	1951	1877
	CFM/ton	Watts	540 / 619	635 / 663	735 / 700	810 / 729	810 / 378	CFM/ton	Watts		559	679	739	810	810
5Tons †	450	CFM	2260 / 2141	2210 / 2068	2100 / 1999	1980 / 903	1870 / 315	450	CFM		2125	2117	2100	2038	1932
	CFM/ton	Watts	745 / 686	810 / 729	810 / 766	810 / 359	810 / 405	CFM/ton	Watts		641	779	810	810	810

- † Factory Setting.
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- In horizontal and downflow applications, airflow should be limited to 1700 CFM due to
- Torque mode will reduce airflow when static is above approximately 0.3-inch water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter.

- † Factory Setting.
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- In horizontal and downflow applications, airflow should be limited to 1700 CFM due to condensate blowoff.
- Torque mode will reduce airflow when static is above approximately 0.3-inch water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter.

Performance Data

Table 8. Models – 5TEMCD06AV41DA, 5TEMCD07AV51DA, and 5TEMCD07BV51DA

5TEMCD06AV41DA, 5TEMCD07AV51DA, and 5TEMCD07BV51DA Airflow Performance														Constant CFM Mode / Constant Torque Mode				
Outdoor Multiplier (Tons)	Cooling Airflow Setting	Airflow Power	External Static Pressure (Constant Cfm / Constant Torque)					Heating Airflow Setting	Airflow Power	External Static Pressure								
			0.1	0.3	0.5	0.7	0.9			0.1	0.3	0.5	0.7	0.9				
3 tons	290 CFM/ton	CFM	864 / 1015	856 / 883	851 / 772	850 / 676	820 / 590	290 CFM/ton	Watts	864	856	851	843	822				
	350 CFM/ton	Watts	80 / 96	119 / 121	170 / 141	217 / 160	276 / 182	350 CFM/ton	Watts	76	119	168	219	276				
	400 CFM/ton	CFM	1037 / 1179	1037 / 1059	1040 / 957	1030 / 866	1030 / 784	400 CFM/ton	Watts	1037	1037	1040	1039	1032				
	450 CFM/ton	Watts	120 / 137	170 / 164	224 / 185	265 / 204	334 / 221	450 CFM/ton	Watts	110	158	213	271	334				
	400 CFM/ton	CFM	1184 / 1317	1187 / 1207	1193 / 1110	1180 / 1024	1190 / 945	400 CFM/ton	Watts	1184	1187	1193	1196	1197				
3.5 tons	290 CFM/ton	Watts	160 / 180	215 / 209	275 / 233	325 / 251	380 / 268	290 CFM/ton	Watts	149	200	260	324	393				
	350 CFM/ton	CFM	1334 / 1457	1336 / 1354	1343 / 1263	1340 / 1181	1340 / 1105	350 CFM/ton	Watts	1334	1336	1343	1348	1353				
	400 CFM/ton	Watts	205 / 232	265 / 265	335 / 290	395 / 310	460 / 327	400 CFM/ton	Watts	198	254	318	388	461				
	450 CFM/ton	CFM	1015 / 1147	1000 / 1025	1000 / 921	1000 / 829	1000 / 746	450 CFM/ton	Watts	1003	1002	1004	1002	992				
	400 CFM/ton	Watts	115 / 128	160 / 155	205 / 176	255 / 194	309 / 212	400 CFM/ton	Watts	103	149	203	260	322				
4 tons	290 CFM/ton	CFM	1210 / 1341	1210 / 1231	1210 / 1136	1210 / 1050	1210 / 971	290 CFM/ton	Watts	1209	1212	1218	1222	1224				
	350 CFM/ton	Watts	165 / 188	220 / 218	280 / 241	335 / 260	395 / 277	350 CFM/ton	Watts	157	208	269	334	403				
	400 CFM/ton	CFM	1380 / 1503	1380 / 1403	1390 / 1314	1390 / 1233	1390 / 1159	400 CFM/ton	Watts	1384	1386	1393	1397	1402				
	450 CFM/ton	Watts	195 / 252	285 / 286	355 / 312	420 / 332	485 / 349	450 CFM/ton	Watts	217	275	340	412	487				
	400 CFM/ton	CFM	1560 / 1667	1560 / 1575	1570 / 1492	1570 / 1416	1579 / 1345	400 CFM/ton	Watts	1563	1563	1566	1566	1564				
5 tons †	290 CFM/ton	Watts	295 / 332	365 / 369	440 / 398	515 / 421	595 / 439	290 CFM/ton	Watts	293	362	429	507	588				
	350 CFM/ton	CFM	1140 / 1304	1140 / 1192	1140 / 1095	1140 / 1008	1150 / 929	350 CFM/ton	Watts	1144	1147	1152	1155	1154				
	400 CFM/ton	Watts	145 / 175	200 / 204	255 / 227	310 / 246	365 / 263	400 CFM/ton	Watts	138	188	247	309	376				
	450 CFM/ton	CFM	1380 / 1525	1380 / 1426	1390 / 1338	1390 / 1257	1390 / 1183	450 CFM/ton	Watts	1384	1386	1393	1397	1402				
	400 CFM/ton	Watts	220 / 262	285 / 295	355 / 322	420 / 343	485 / 360	400 CFM/ton	Watts	217	275	340	412	487				
5 tons †	290 CFM/ton	CFM	1590 / 1711	1590 / 1621	1590 / 1539	1590 / 1464	1600 / 1394	290 CFM/ton	Watts	1589	1588	1591	1589	1585				
	350 CFM/ton	Watts	305 / 356	380 / 267	455 / 356	535 / 267	610 / 466	350 CFM/ton	Watts	305	376	444	522	604				
	400 CFM/ton	CFM	1790 / 1898	1790 / 1816	1800 / 1741	1800 / 1670	1810 / 1604	400 CFM/ton	Watts	1800	1794	1791	1773	1745				
	450 CFM/ton	Watts	410 / 474	495 / 597	585 / 548	670 / 575	760 / 597	450 CFM/ton	Watts	419	509	575	660	749				
	400 CFM/ton	CFM	1430 / 1571	1440 / 1475	1440 / 1388	1440 / 1309	1440 / 1236	400 CFM/ton	Watts	1435	1436	1442	1446	1450				
5 tons †	290 CFM/ton	Watts	240 / 283	310 / 318	375 / 345	445 / 367	515 / 384	290 CFM/ton	Watts	237	297	364	437	514				
	350 CFM/ton	CFM	1740 / 1851	1740 / 1767	1750 / 1690	1750 / 1619	1760 / 1552	350 CFM/ton	Watts	1747	1742	1740	1728	1707				
	400 CFM/ton	Watts	380 / 442	465 / 482	550 / 514	635 / 541	720 / 562	400 CFM/ton	Watts	388	472	539	623	710				
	450 CFM/ton	CFM	2000 / 2087	2000 / 2012	2010 / 1942	1980 / 1873	1870 / 317	450 CFM/ton	Watts	2015	2007	1995	1951	1877				
	400 CFM/ton	Watts	540 / 619	635 / 663	735 / 700	810 / 729	810 / 378	400 CFM/ton	Watts	559	679	739	810	810				
5 tons †	290 CFM/ton	CFM	2260 / 2141	2210 / 2068	2100 / 1999	1980 / 903	1870 / 315	290 CFM/ton	Watts	2125	2117	2100	2038	1932				
	350 CFM/ton	Watts	745 / 686	810 / 729	810 / 766	810 / 359	810 / 405	350 CFM/ton	Watts	641	779	810	810	810				
† Factory Setting.														• Torque mode will reduce airflow when static is above approximately 0.3-inch water column.				
• Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.														• All heating modes default to Constant CFM.				
• In horizontal and downflow applications, airflow should be limited to 1800 CFM due to condensation blowoff.														• Cooling airflow values are with wet coil, no filter.				

- † Factory Setting.
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- In horizontal and downflow applications, airflow should be limited to 1800 CFM due to condensate blowoff.
- Torque mode will reduce airflow when static is above approximately 0.3-inch water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter.

Electrical Data

Note: Heater size needs to be set in Configuration Menu.

Table 9. Model – 5TEMCB02AV21DA

5TEMCB02AV21DA Heater Data											
Heater Model No.	No. of Circuits/ Phases	240 Volt					208 Volt				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		kW	BTUH				kW	BTUH			
No Heater	—	—	—	2.8 ^(a)	4	15	—	—	2.8 ^(a)	4	15
BAYHTR1504BRK	1/1	3.84	13100	16.0	24	25	2.88	9800	13.8	21	25
BAYHTR1504LUG	1/1	4.80	16400	20.0	29	30	3.60	12300	17.3	25	25
BAYHTR1505BRK	1/1	7.68	26200	32.0	44	45	5.76	19700	27.7	38	40
BAYHTR1505LUG	1/1	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
BAYHTR1508BRK	1/1	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
BAYHTR1508LUG	1/1	4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYHTR1510BRK	1/3	9.60	32800	23.1	32	35	7.20	24600	20.0	28	30
BAYHTR1510LUG	1/3	14.40	49100	34.6	46	50	10.80	36900	30.0	41	45

^(a) Motor Amps

^(b) MCA and MOP for circuit 1 contains the motor amps.

Table 10. Model – 5TEMCB03AV31DA

5TEMCB03AV31DA Heater Data											
Heater Model No.	No. of Circuits/ Phases	240 Volt					208 Volt				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		kW	BTUH				kW	BTUH			
No Heater	—	—	—	3.9 ^(a)	5	15	—	—	3.9 ^(a)	5	15
BAYHTR1504BRK	1/1	3.84	13100	16.0	25	25	2.88	9800	13.8	22	25
BAYHTR1504LUG	1/1	4.80	16400	20.0	30	30	3.60	12300	17.3	27	30
BAYHTR1505BRK	1/1	7.68	26200	32.0	45	45	5.76	19700	27.7	39	40
BAYHTR1505LUG	1/1	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
BAYHTR1508BRK	1/1	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
BAYHTR1508LUG	1/1	4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYHTR1510BRK	1/3	9.60	32800	23.1	33	35	7.20	24600	20.0	29	30
BAYHTR1510LUG	1/3	14.40	49100	34.6	48	50	10.80	36900	30.0	42	45

^(a) Motor Amps

^(b) MCA and MOP for circuit 1 contains the motor amps.

Table 11. Models – 5TEMCD04AV31DA and 5TEMCD05AV41DA

5TEMCD04AV31DA and 5TEMCD05AV41DA Heater Data											
Heater Model No.	No. of Circuits/ Phases	240 Volt					208 Volt				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		kW	BTUH				kW	BTUH			
No Heater	—	—	—	3.9 ^(a)	5	15	—	—	3.9 ^(a)	5	15
BAYHTR1504BRK	1/1	3.84	13100	16.0	25	25	2.88	9800	13.8	22	25
BAYHTR1504LUG	1/1	4.80	16400	20.0	30	30	3.60	12300	17.3	27	30
BAYHTR1505BRK	1/1	7.68	26200	32.0	45	45	5.76	19700	27.7	39	40
BAYHTR1505LUG	1/1	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
BAYHTR1508BRK	1/1	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
BAYHTR1508LUG	1/1	4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYHTR1510BRK	1/3	9.60	32800	23.1	33	35	7.20	24600	20.0	29	30
BAYHTR1510LUG	1/3	14.40	49100	34.6	48	50	10.80	36900	30.0	42	45

Electrical Data

Table 11. Models – 5TEMCD04AV31DA and 5TEMCD05AV41DA (continued)

5TEMCD04AV31DA and 5TEMCD05AV41DA Heater Data											
Heater Model No.	No. of Circuits/ Phases	240 Volt					208 Volt				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		kW	BTUH				kW	BTUH			
BAYHTR1517BRK Circuit 1 ^(b)	2/1	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
BAYHTR1517BRK Circuit 2		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYHTR1523BRK Circuit 1 ^(b)	2/1	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
BAYHTR1523BRK Circuit 2		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
BAYHTR3510LUG	1/3	9.60	32800	23.1	33	35	7.20	24600	20.0	29	30
BAYHTR3517LUG	1/3	14.40	49100	34.6	48	50	10.80	36900	30.0	42	45

^(a) Motor Amps

^(b) MCA and MOP for circuit 1 contains the motor amps.

Table 12. Models – 5TEMCD06AV41DA and 5TEMCD07AV51DA

5TEMCD06AV41DA and 5TEMCD07AV51DA Heater Data											
Heater Model No.	No. of Circuits/ Phases	240 Volt					208 Volt				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		kW	BTUH				kW	BTUH			
No Heater	—	—	—	5.7 ^(a)	7	15	—	—	5.7 ^(a)	7	15
BAYHTR1504BRK BAYHTR1504LUG	1/1	3.84	13100	16.0	27	30	2.88	9800	13.8	24	25
BAYHTR1505BRK BAYHTR1505LUG	1/1	4.80	16400	20.0	32	35	3.60	12300	17.3	29	30
BAYHTR1508BRK BAYHTR1508LUG	1/1	7.68	26200	32.0	47	50	5.76	19700	27.7	42	45
BAYHTR1510BRK BAYHTR1510LUG	1/1	9.60	32800	40.0	57	60	7.20	24600	34.6	50	50
BAYHTR1517BRK Circuit 1 ^(b)	2/1	9.60	32800	40.0	57	60	7.20	24600	34.6	50	50
BAYHTR1517BRK Circuit 2		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYHTR1523BRK Circuit 1 ^(b)	2/1	9.60	32800	40.0	57	60	7.20	24600	34.6	50	50
BAYHTR1523BRK Circuit 2		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
BAYHTR1525BRK Circuit 1 ^(b)	4/1	6.00	20500	25.0	38	40	4.50	15400	21.6	34	35
BAYHTR1525BRK Circuit 2		6.00	20500	25.0	31	35	4.50	15400	21.6	27	30
BAYHTR1525BRK Circuit 3		6.00	20500	25.0	31	35	4.50	15400	21.6	27	30
BAYHTR1525BRK Circuit 4		6.00	20500	25.0	31	35	4.50	15400	21.6	27	30
BAYHTR3510LUG	1/3	9.60	32800	23.1	35	40	7.20	24600	20.0	31	35
BAYHTR3517LUG	1/3	14.40	49100	34.6	50	60	10.80	36900	30.0	44	45

^(a) Motor Amps

^(b) MCA and MOP for circuit 1 contains the motor amps.

Table 13. Model – 5TEMCD07BV51DA

5TEMCD07BV51DA Heater Data											
Heater Model No.	No. of Circuits/ Phases	240 Volt					208 Volt				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		kW	BTUH				kW	BTUH			
No Heater	—	—	—	6.9 ^(a)	9	15	—	—	6.9 ^(a)	9	15
BAYHTR1504BRK BAYHTR1504LUG	1/1	3.84	13100	16.0	29	30	2.88	9800	13.8	26	30
BAYHTR1505BRK BAYHTR1505LUG	1/1	4.80	16400	20.0	34	35	3.60	12300	17.3	30	30
BAYHTR1508BRK BAYHTR1508LUG	1/1	7.68	26200	32.0	49	50	5.76	19700	27.7	43	45
BAYHTR1510BRK BAYHTR1510LUG	1/1	9.60	32800	40.0	59	60	7.20	24600	34.6	52	60

Table 13. Model – 5TEMCD07BV51DA (continued)

5TEMCD07BV51DA Heater Data											
Heater Model No.	No. of Circuits/ Phases	240 Volt					208 Volt				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		kW	BTUH				kW	BTUH			
BAYHTR1517BRK- Circuit 1 ^(b)	2/1	9.60	32800	40.0	59	60	7.20	24600	34.6	52	60
BAYHTR1517BRK- Circuit 2 ^(b)		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYHTR1523BRK- Circuit 1 ^(b)	2/1	9.60	32800	40.0	59	60	7.20	24600	34.6	52	60
BAYHTR1523BRK- Circuit 2 ^(b)		9.60	32800	40.0	50	50	7.20	24600	34.6	43	45
BAYHTR1525BRK- Circuit 1	4/1	6.00	20500	25.0	40	40	4.50	15400	21.6	36	40
BAYHTR1525BRK- Circuit 2		6.00	20500	25.0	31	35	4.50	15400	21.6	27	30
BAYHTR1525BRK- Circuit 3		6.00	20500	25.0	31	35	4.50	15400	21.6	27	30
BAYHTR1525BRK- Circuit 4		6.00	20500	25.0	31	35	4.50	15400	21.6	27	30
BAYHTR3510LUG	1/3	9.60	32800	23.1	37	40	7.20	24600	20.0	33	35
BAYHTR3517LUG	1/3	14.40	49100	34.6	51	60	10.80	36900	30.0	45	50

^(a) Motor Amps^(b) MCA and MOP for circuit 1 contains the motor amps.

Minimum Airflow CFM

Table 14. Models – 5TEMCB02AV21DA and 5TEMCB03AV31DA

Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504+++, BAYHTR1505+++	650	600
BAYHTR1508+++, BAYHTR1510+++	850	700
BAYHTR1517BRK, BAYHTR3517LUG	1000	850
BAYHTR3510LUG	850	700

Table 15. Models – 5TEMCD04AV31DA and 5TEMCD05AV41DA

Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504+++, BAYHTR1505+++	675	675
BAYHTR1508+++, BAYHTR1510+++, BAYHTR1517BRK, BAYHTR3510LUG	950	900
BAYHTR3517LUG	1050	950
BAYHTR1523BRK	1500	1300

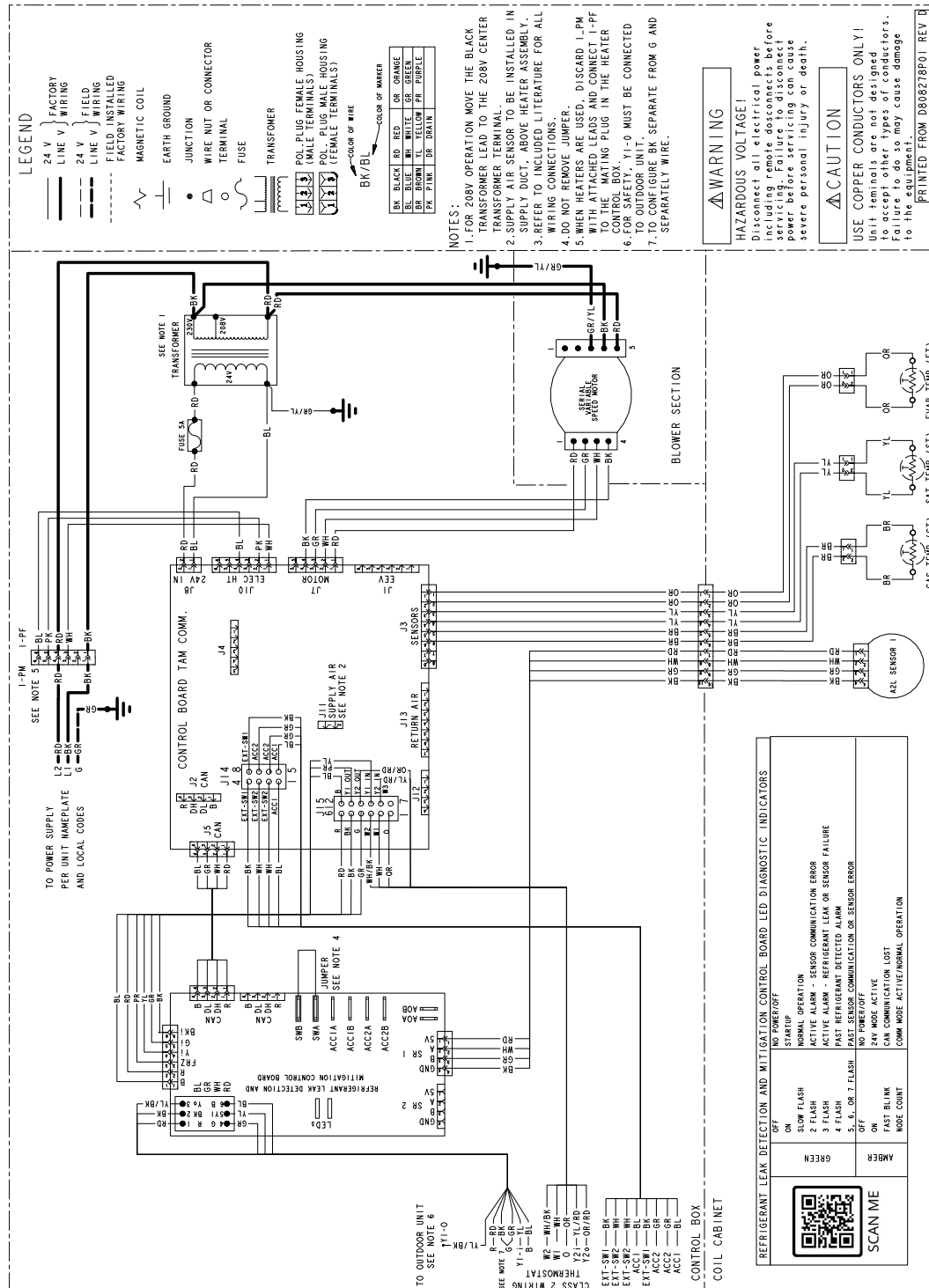
Table 16. Models – 5TEMCD06AV41DA, 5TEMCD07AV51DA, and 5TEMCD07BV51DA

Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504+++, BAYHTR1505+++	900	800
BAYHTR1508+++, BAYHTR3510LUG	1200	1000
BAYHTR1510+++	1350	1000
BAYHTR1517BRK, BAYHTR3517LUG	1400	1100
BAYHTR1523BRK	1430	1300
BAYHTR1525BRK	1850	1600

Note: Heater model number digits "+++" are LUG or BRK.

Wiring Diagram

Figure 1. Wiring diagram



Note: For refrigerant and leak detection and mitigation control board diagnostic flash codes, see *Variable Speed Convertible Air Handlers 2 to 5 Ton, Installation, Operation, and Maintenance (AHR-SVX004*-EN)*.

Field Wiring

5TEMC can be used in either Link Communicating mode or 24 volt mode. In Link Communicating mode, all configurations are made by using the configuration menu in the User Interface (UX360) or from the Diagnostic Mobile App. In 24 volt mode, basic operation is configured from the factory with no defaults for accessories. All configurations for blower delays, accessories etc., need accomplished using the Diagnostic Mobile App.

Figure 2. Link communicating low voltage connection diagrams

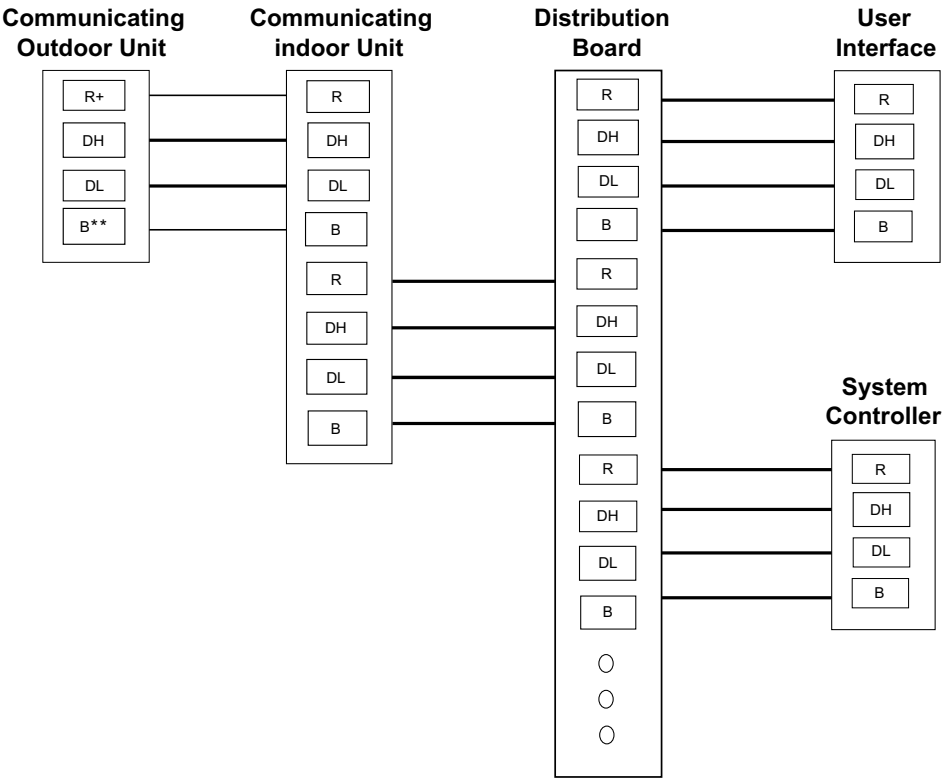


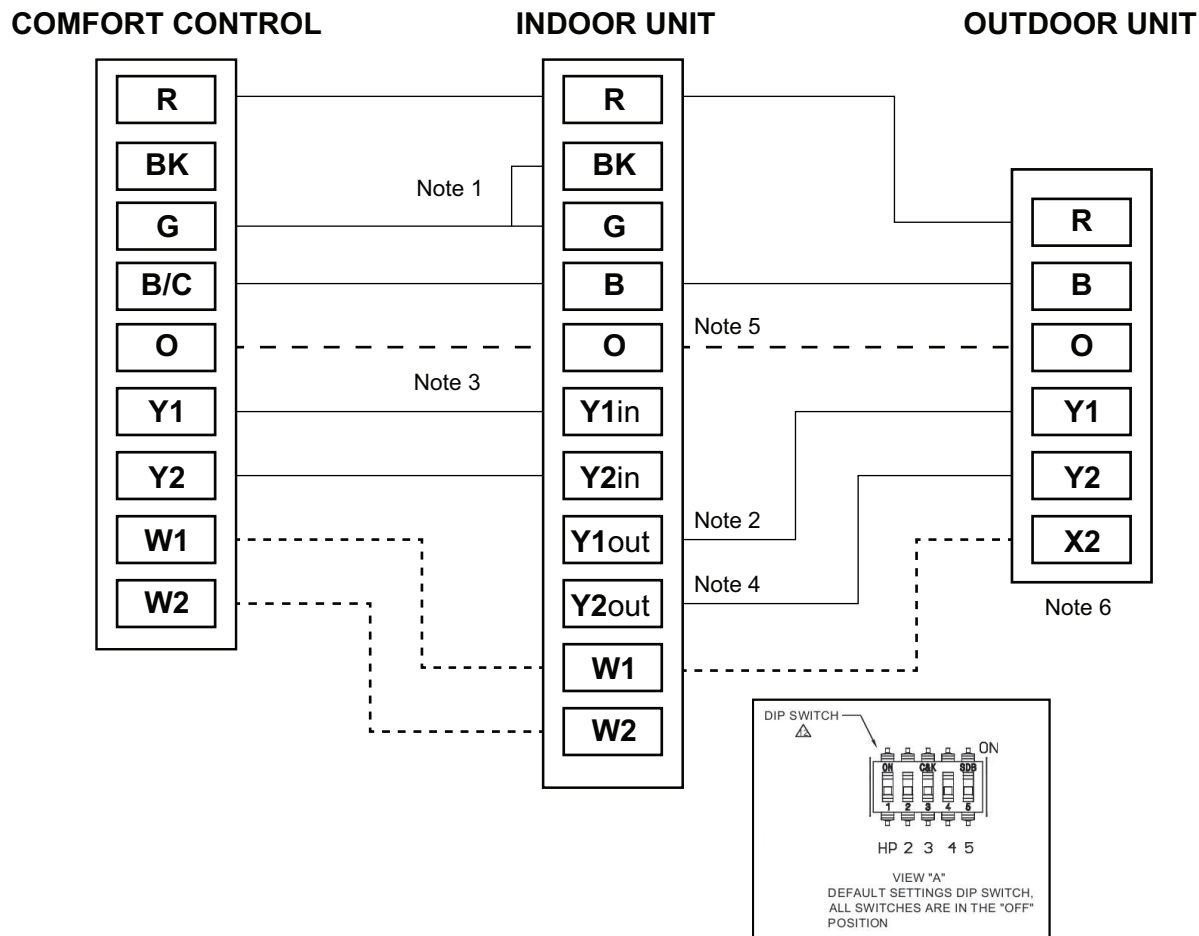
Table 17. Wire colors

Wire Colors	
R	Red
DH	White
DL	Green
B	Blue

Notes:

- Wire colors are for illustration purposes only. If using a different color, ensure it lands at the correct terminal throughout all of the communicating control wiring.
- Drawing is for reference only - wiring can be done many different ways.

Figure 3. 24 volt low voltage wiring - 2 stage cooling or heat pump with 5TEM variable speed air handler



For AC only units, move dip switch 1 to the ON position.

*if not using tech app for configuration.

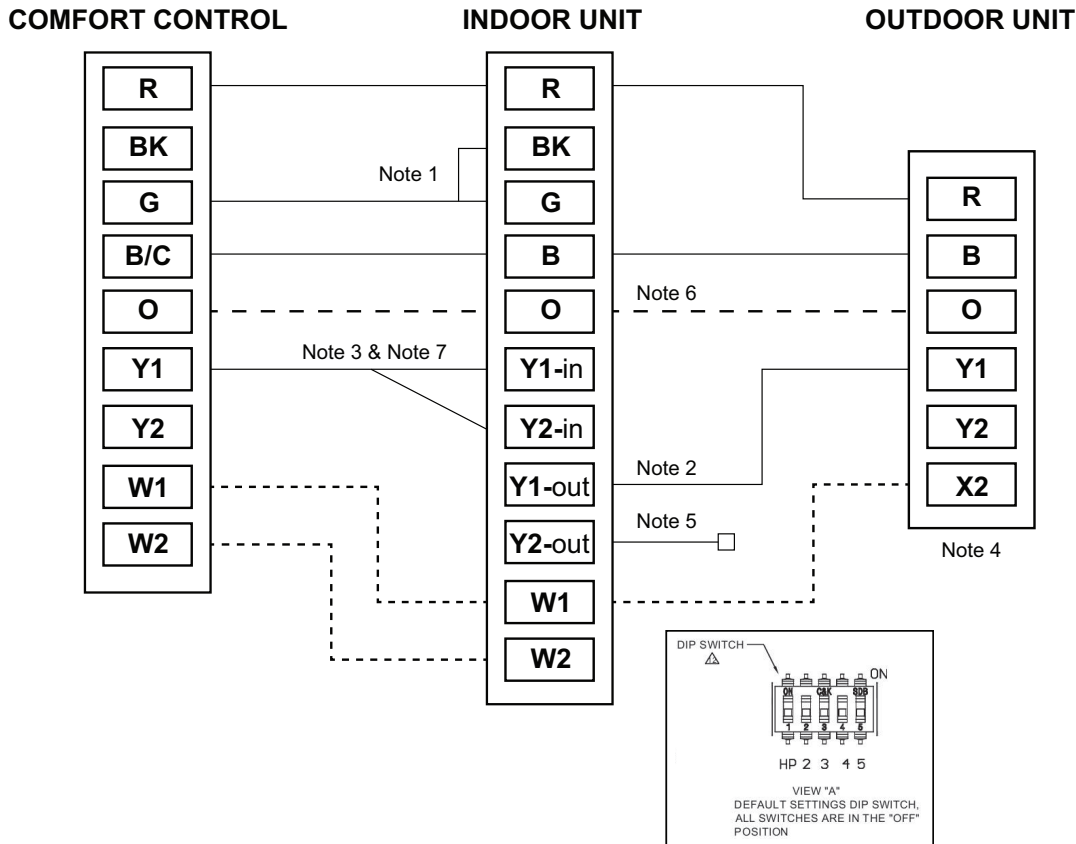
*24 volt mode only.

Notes:

1. Separate the BK and G wires when using the BK functionality from the thermostat or a Humidistat.
2. Yin and Yout connections must be made as shown for freeze protection, internally mounted condensate overflow, and refrigerant leak detection circuits to function properly.
3. 3rd party condensate switch should break the Y1-in circuit between the thermostat and AHC.
4. Y2-out connections at outdoor unit only required for two stage units and should be capped off when not in use.
5. Only needed for heat pump operation.
6. X2 is necessary if not using select Trane or American Standard thermostats.

Field Wiring

Figure 4. 24 volt low voltage wiring - 1 stage cooling or heat pump with 5TEMC variable speed air handler



Notes:

1. Separate the BK and G wires when using the BK functionality from the thermostat or a Humidistat.
2. Yin and Yout connections must be made as shown for freeze protection, internally mounted condensate overflow, and refrigerant leak detection circuits to function properly.
3. 3rd party condensate switch should break the Y1-in circuit between the thermostat and AHC.
4. X2 is necessary if not using select Trane or American Standard thermostats.
5. For single speed operation, use Y1-out and cap off Y2-out wire.
6. Only needed for heat pump operation.
7. For single stage outdoor operation, must connect Y1-in and Y2-in for full airflow.

Table 18. 5TEMC 24 volt wire harness colors

R	Red	Y2out	Orange/Red
B	Blue	G	Green
O	Orange	BK	Black
Y1in	Yellow	W1	White
Y2in	Yellow/Red	W2	White/Black
Y1out	Yellow/ Black	—	—

External Switches and Accessories

Use stripped wire connections in control box when connecting a humidifier, external switch, or other accessory to the air handler.

- External switch 1 and 2 do have 24 volts AC source voltage and are to be connected to Normally Closed (NC) contacts on the external device.
- Accessory 1 and 2 are dry contacts and need source voltage provided from either the accessory or internally.

The external switches and accessories can be configured through the Smart Thermostat or the Diagnostics Mobile App.

Notes:

- See step 2 of *Low Voltage Connection Instructions for switch location in Variable Speed Convertible Air Handlers 2 to 5 Ton, Installation, Operation, and Maintenance (AHR-SVX004*-EN)*.
- Accessories can be configured in the UX360 User Interface or Diagnostics Mobile App.
- Accessories need configured using the Diagnostics Mobile App in 24 volt mode. There are no defaults in 24 volt mode.

Table 19. Wire colors

Black Wires	Ext Switch 1 External condensate, Smoke Detector
White Wires	Ext Switch 2 External condensate, Smoke Detector
Blue Wires	Accessory 1 EAC, Humidifier (Fan assist/ Bypass) Steam Humidifier
Green Wires	Accessory 2 EAC, Humidifier (Fan Assist/ Bypass) Steam Humidifier

The following optional connections are available on the mitigation control board (see connection diagrams [Figure 5, p. 22](#)):

- ACC1 and ACC2 accessory connections. Use when connecting an accessory to the air handler that could be considered a source of ignition (ex. electronic air cleaner).
- Aoa/Aob audible alarm connections. Use when configuring an audible alarm on the refrigerant detection system of the air handler.

ACC1, ACC2, and Aoa/Aob are dry contacts and need source voltage provided from either the accessory or the unit's control wiring.

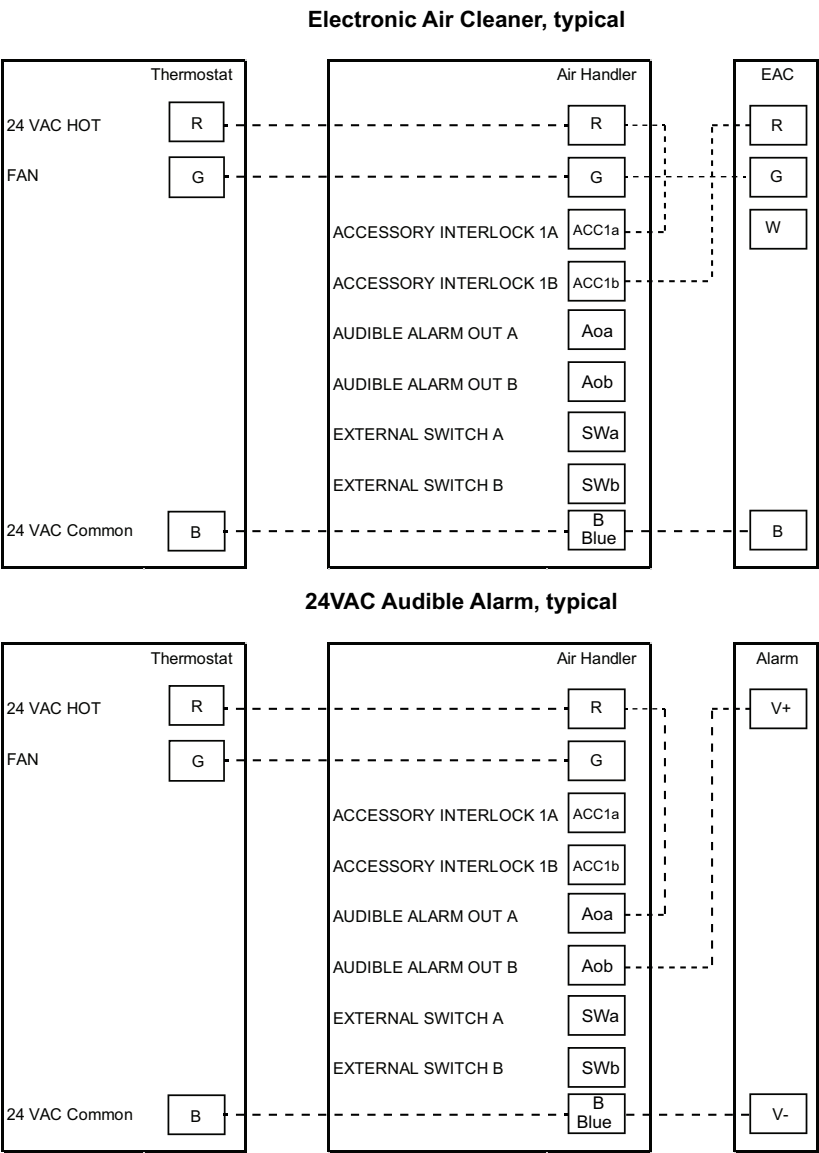
Connect using field-supplied 3/16-inch (Aoa/Aob) or 1/4-inch (ACC1, ACC2) female spade connections.

Figure 5. Accessories diagram



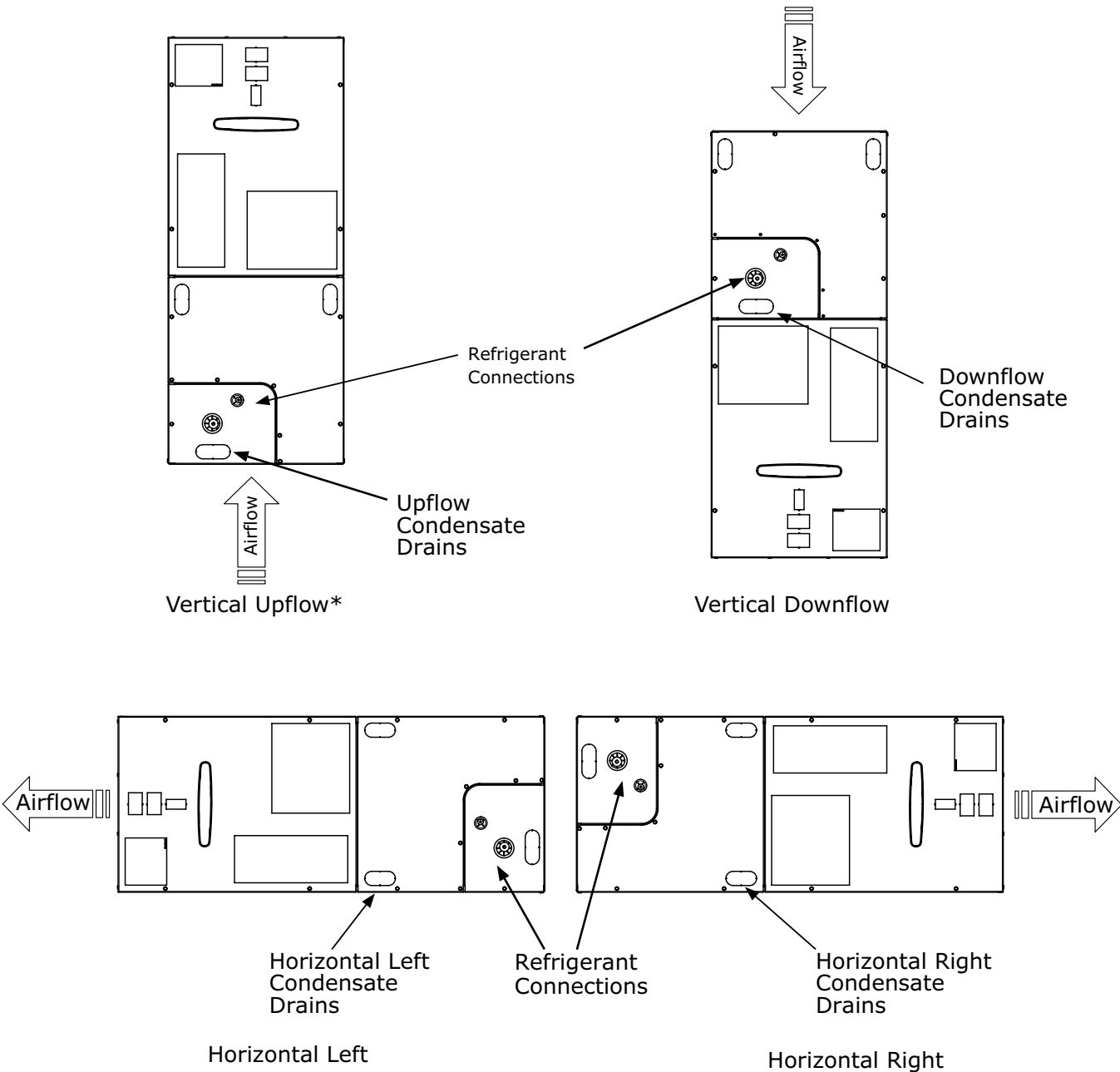
SCAN ME

Scan QR code to view instructional videos on field wiring for CleanEffects or AccuClean electronic air cleaners.



Unit Convertibility

Figure 6. Multi-position air handler



Note: * = No internal modifications required.

Dimensional Data

Figure 7. Dimensional data

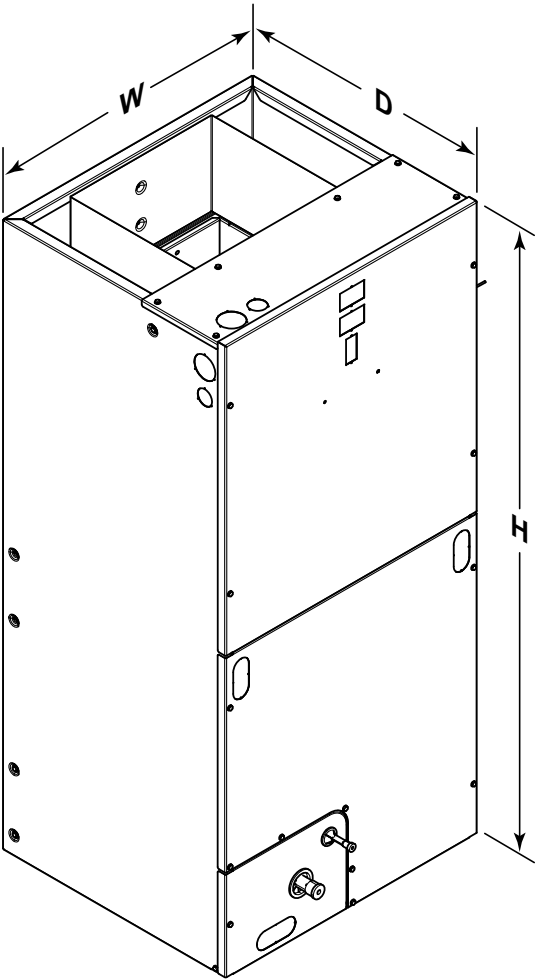
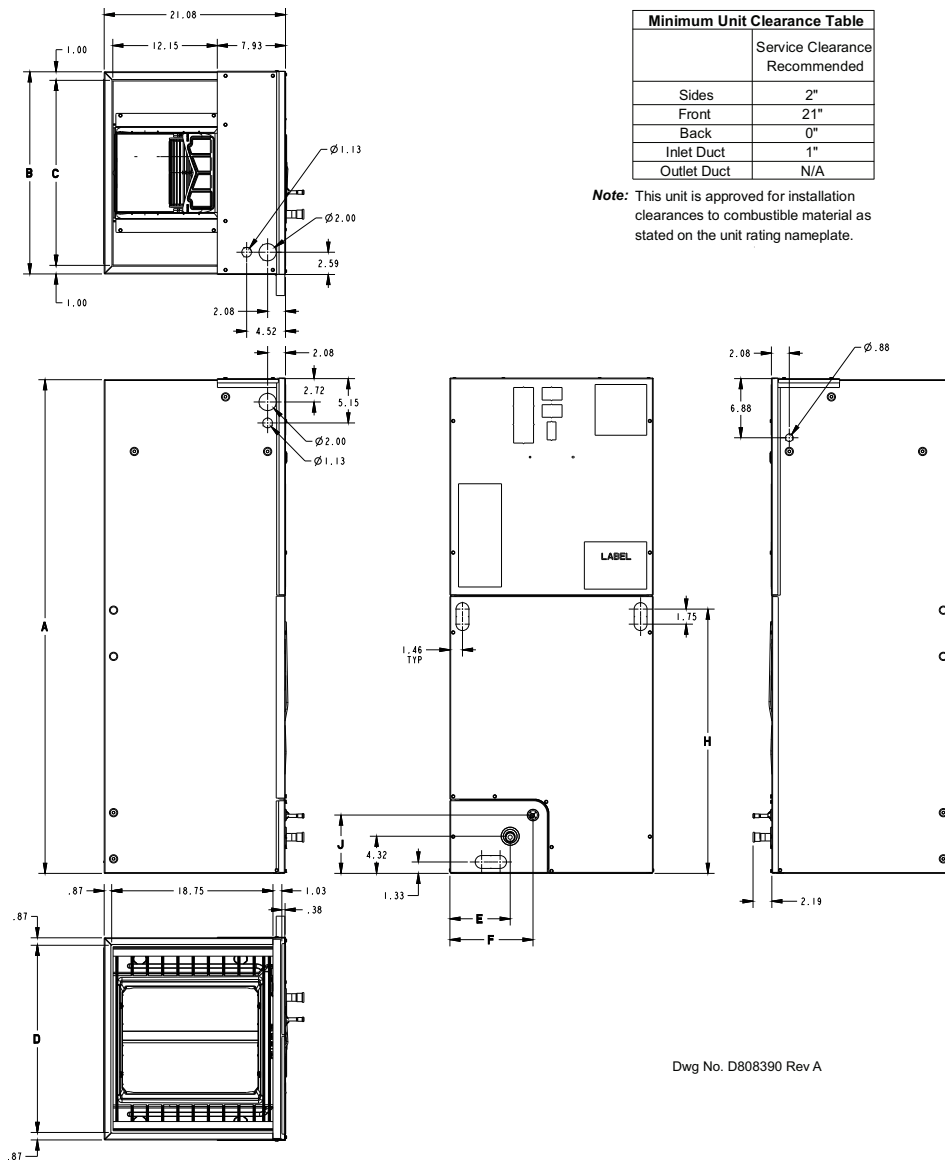


Table 20. Dimensions (inch)

Model No.	H	W	D
5TEMCB02	46.77	18.50	21.08
5TEMCB03	46.77	18.50	21.08
5TEMCD04	51.27	23.50	21.08
5TEMCD05	51.27	23.50	21.08
5TEMCD06	57.40	23.50	21.08
5TEMCD07	57.40	23.50	21.08

Figure 8. Dimensional data



Note: All dimensions are reference dimensions.

Table 21. Dimensions (inch)

Air Handler Model	A	B	C	D	E	F	H	J	Flow Control	Gas Line Braze
5TEMCB02, 03	46.77	18.50	16.50	16.75	5.43	7.08	20.07	5.76	TXV	3/4
5TEMCD04, 05	51.27	23.50	21.50	21.75	7.01	9.66	24.58	6.76	TXV	7/8
5TEMCD06, 07	57.40	23.50	21.50	21.75	7.01	9.66	30.71	6.76	TXV	7/8

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The manufacturer has a policy of continuous data improvement and it reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

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