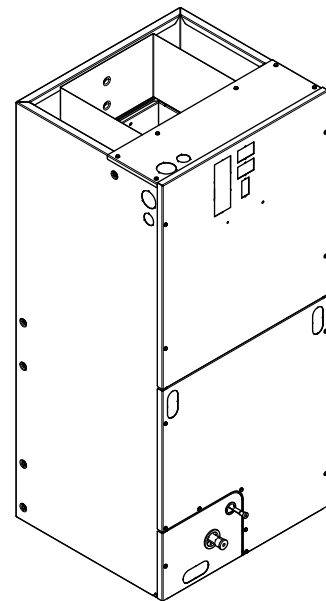




Product Data

Variable Speed Convertible Air Handlers 2 – 5 Ton

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



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

Note: The 5TEM 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.

Note: This unit can be used in Link Communicating mode or 24 volt mode.

Note: Use Diagnostics App to configure blower delays, accessories, ect. in 24 volt mode.



Table of Contents

Features and Benefits.....	3
Optional Equipment.....	4
Product Specifications.....	5
Heater Pressure Drop Table.....	7
Performance Table.....	8
Electrical Data	12
Minimum Airflow CFM	14
Wiring Diagram.....	15
Field Wiring.....	16
TEM Convertibility.....	21
Air Handler Dimensional Data	22
Outline Drawing	23



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**



Features and Benefits

Optional Equipment

Accessory Number	Description	Fits Cabinet Size
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"
FLRSF1185	1" Slim Fit Replacement Filter, 17.75"x19.75", Qty 12	18.5"
FLRSF1235	1" Slim Fit Replacement Filter, 22.75"x19.75", 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"
BAYAHEMIKIT001	Air handler Electronic Noise Kit used on Variable Speed Blower Motor	18.5" and 23.5"



Product Specifications

MODEL	STEMCB02AV21DA	STEMCB03AV31DA	STEMCD04AV31DA
Family Description	R-454B Variable Speed Air Handler	R-454B Variable Speed Air Handler	R-454B Variable Speed Air Handler
Description	R-454B Variable Speed Air Handler, All-Aluminum Plate Fin Coil, 4-Way Poise, Link Communicating or 24V System Control, 208-230/1/60, 18K - 24K BTUH Capacity	R-454B Variable Speed Air Handler, All-Aluminum Plate Fin Coil, 4-Way Poise, Link Communicating or 24V System Control, 208-230/1/60, 18K - 30K BTUH Capacity	R-454B Variable Speed Air Handler, All-Aluminum Plate Fin Coil, 4-Way Poise, Link Communicating or 24V System Control, 208-230/1/60, 24K - 42K BTUH Capacity
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
Name Plate	See Unit Nameplate	See Unit Nameplate	See Unit Nameplate
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	2.6	3.9	3.9
FILTER RACK (YES, NO)	No	No	No
Dimensions (Length x Width (in.))	n/a	n/a	n/a
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 Installation, Operation, and Maintenance manual or unit name plate.

^(b) For CFM versus external static pressure (in. w.c.), refer to Installation, Operation, and Maintenance manual.



Product Specifications

MODEL	STEMCD05AV41DA	STEMCD06AV41DA	STEMCD07AV51DA
Family Description	R-454B Variable Speed Air Handler	R-454B Variable Speed Air Handler	R-454B Variable Speed Air Handler
Description	R-454B Variable Speed Air Handler, All-Aluminum Plate Fin Coil, 4-Way Poise, Link Communicating or 24V System Control, 208-230/1/60, 36K - 48K BTUH Capacity	R-454B Variable Speed Air Handler, All-Aluminum Plate Fin Coil, 4-Way Poise, Link Communicating or 24V System Control, 208-230/1/60, 36K - 60K BTUH Capacity	R-454B Variable Speed Air Handler, All-Aluminum Plate Fin Coil, 4-Way Poise, Link Communicating or 24V System Control, 208-230/1/60, 42K - 60K BTUH Capacity
Application Configuration	4-Way	4-Way	4-Way
RATED CAPACITY RANGE (BTUH)	36K - 48K	36K - 60K	42K - 60K
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)	15	15	15
Max Breaker Size, With Electric Heater (Amps) ^(a)	60	60	60
Name Plate	See Unit Nameplate	See Unit Nameplate	See Unit Nameplate
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.)	7/8	7/8	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)	1400	1600	2000
Speed (RPM)	1050	1050	1050
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60
Full Load Amps	3.9	6.0	6.0
FILTER RACK (YES, NO)	No	No	No
Dimensions (Length x Width (in.))	n/a	n/a	n/a
DUCT CONNECTIONS	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
Return (in.)	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
DIMENSIONS	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
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
WEIGHT - SHIPPING/NET (LBS.)	155/144	185/174	185/174

^(a) Maximum overcurrent protection is dependent on which electric heater is installed. See Installation, Operation, and Maintenance manual or unit name plate.

^(b) For CFM versus external static pressure (in. w.c.), refer to Installation, Operation, and Maintenance manual.



Heater Pressure Drop Table

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

5STEMCB02AV21DA 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
1.5 tons	290 CFM/ton	CFM 430 / 538 50 / 39	430 / 415 75 / 48	430 / 264 95 / 43	430 / NA 110 / NA	430 / NA 145 / NA	290 CFM/ton	CFM 434	419	419	403	384		
	350 CFM/ton	CFM 520 / 620 60 / 53	520 / 514 90 / 64	520 / 398 120 / 61	520 / NA 135 / NA	510 / NA 175 / NA	350 CFM/ton	CFM 521	512	514	500	485		
	400 CFM/ton	CFM 590 / 688 75 / 67	590 / 593 105 / 80	590 / 493 140 / 80	590 / NA 160 / NA	590 / NA 205 / NA	400 CFM/ton	CFM 595	589	595	584	573		
	450 CFM/ton	CFM 670 / 758 85 / 85	670 / 671 125 / 100	660 / 581 160 / 102	660 / NA 190 / NA	660 / NA 235 / NA	450 CFM/ton	CFM 668	667	675	668	660		
	290 CFM/ton	CFM 570 / 670 60 / 63	570 / 573 90 / 76	570 / 469 125 / 75	570 / NA 165 / NA	568 / NA 215 / NA	290 CFM/ton	CFM 575	569	573	561	549		
2 tons	350 CFM/ton	CFM 690 / 781 85 / 91	690 / 696 120 / 107	690 / 609 160 / 110	690 / 518 210 / 98	680 / NA 259 / NA	350 CFM/ton	CFM 693	693	702	696	689		
	400 CFM/ton	CFM 790 / 875 110 / 122	790 / 798 150 / 140	790 / 720 195 / 145	780 / 639 250 / 137	780 / 555 301 / 115	400 CFM/ton	CFM 791	795	805	803	798		
	450 CFM/ton	CFM 890 / 971 145 / 161	890 / 899 185 / 181	880 / 827 235 / 189	880 / 754 295 / 184	880 / 680 347 / 184	450 CFM/ton	CFM 889	895	902	899	891		
	290 CFM/ton	CFM 720 / 823 90 / 104	720 / 741 140 / 120	710 / 659 170 / 124	710 / 573 220 / 115	710 / 481 260 / 91	290 CFM/ton	CFM 717	718	728	723	717		
	350 CFM/ton	CFM 870 / 963 140 / 157	860 / 892 182 / 177	873 / 819 235 / 185	860 / 746 280 / 180	850 / 671 330 / 161	350 CFM/ton	CFM 865	871	879	876	869		
2.5 tons †	390 † CFM/ton	CFM 958 / 1075 147 / 170	975 / 1000 203 / 195	946 / 878 269 / 211	871 / 711 342 / 197	802 / 617 403 / 189	390 † CFM/ton	CFM 958	979	957	878	822		
	400 CFM/ton	CFM 980 / 1100 157 / 181	993 / 1019 213 / 205	958 / 889 280 / 219	875 / 714 357 / 205	801 / 616 418 / 196	400 CFM/ton	CFM 980	998	969	882	821		
	450 CFM/ton	CFM 980 / 1100 157 / 181	993 / 1019 213 / 205	958 / 889 280 / 219	875 / 714 357 / 205	801 / 616 418 / 196	450 CFM/ton	CFM 980	998	969	882	821		

- † 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" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter



Performance Data

OUTDOOR MULTIPLIER (TONS)	5 TEMCB03AV31DA AIRFLOW PERFORMANCE										CONSTANT CFM MODE / CONSTANT TORQUE MODE									
	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	290	350	400	450	290	350	400	450	CFM	Watts	0.1	0.3	0.5	0.7	0.9
1.5 tons	430/538	430/415	430/264	430/NA	430/NA	290	350	400	450	290	350	400	450	CFM	434	419	419	403	384	
	50/39	75/48	95/43	110/NA	110/NA	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	34	64	96	130	167	
	520/620	520/514	520/398	520/NA	520/NA	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM	521	512	514	500	485	
	60/53	90/64	120/61	135/NA	135/NA	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	44	77	112	153	196	
	590/688	590/593	590/493	590/NA	590/NA	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM	595	589	595	584	573	
2 tons	75/67	105/80	140/80	160/NA	160/NA	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	56	91	127	173	222	
	670/758	670/671	660/581	660/NA	660/NA	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM	668	667	675	668	660	
	85/85	125/100	160/102	190/NA	190/NA	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	71	107	145	196	250	
	570/670	570/573	570/469	570/NA	570/NA	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM	575	569	573	561	549	
	60/63	90/76	125/75	165/NA	165/NA	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	53	87	123	167	215	
2.5 tons	690/781	690/696	690/609	690/518	690/NA	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM	693	693	702	696	689	
	85/91	120/107	160/110	210/98	210/98	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	76	113	152	204	259	
	790/875	790/798	790/720	780/639	780/555	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM	791	795	805	803	798	
	110/122	150/140	195/145	250/137	301/115	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	103	143	184	240	301	
	890/971	890/899	880/827	880/754	880/680	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM	889	895	902	899	891	
2.5 tons	145/161	185/181	235/189	295/184	347/184	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	138	181	226	284	347	
	720/823	720/741	710/659	710/573	710/481	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM	717	718	728	723	717	
	90/104	140/120	170/124	220/115	260/91	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	82	120	159	212	269	
	870/963	860/892	873/819	860/746	850/671	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM	865	871	879	876	869	
	140/157	182/177	235/185	280/180	330/161	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	128	170	214	272	335	
2.5 tons	969/1087	985/1011	993/921	992/809	1000/770	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM	969	989	1004	999	1026	
	143/166	198/191	262/205	329/189	399/187	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	134	188	250	323	402	
	993/1114	1008/1035	1017/943	1015/828	1022/787	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM	993	1013	1028	1023	1049	
	152/176	208/200	273/214	341/196	413/194	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	142	197	261	335	416	
	993/1114	1008/1035	1017/943	1015/828	1022/787	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM	993	1013	1028	1023	1049	
3 tons †	152/176	208/200	273/214	341/196	413/194	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	142	197	261	335	416	
	868/974	884/907	891/826	893/729	894/688	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM	868	888	901	900	917	
	111/128	163/156	220/173	281/162	345/162	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	103	154	211	277	347	
	993/1114	1008/1035	1017/943	1015/828	1022/787	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM	993	1013	1028	1023	1049	
	152/176	208/200	273/214	341/196	413/194	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	142	197	261	335	416	
3 tons †	993/1114	1008/1035	1017/943	1015/828	1022/787	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM	993	1013	1028	1023	1049	
	152/176	208/200	273/214	341/196	413/194	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	142	197	261	335	416	
	868/974	884/907	891/826	893/729	894/688	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM	868	888	901	900	917	
	111/128	163/156	220/173	281/162	345/162	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	103	154	211	277	347	
	993/1114	1008/1035	1017/943	1015/828	1022/787	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM	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 condensate blowoff.
- Torque mode will reduce airflow when static is above approximately 0.3" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

5STEMCD04V31DA & 5STEMCD05AV41DA AIRFLOW PERFORMANCE										CONSTANT CFM MODE / CONSTANT TORQUE MODE															
OUTDOOR MULTIPLIER (TONS)	COOLING AIRFLOW SETTING					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	0.1	0.3	0.5	0.7	0.9	0.1	0.3	0.5	0.7	0.9	0.1	0.3	0.5	0.7	0.9
2.5 tons	290	735/837	727/702	700/593	673/415	660/415	290	CFM	735	727	700	673	660	660	CFM	735	727	700	673	660	735	727	700	673	660
	350	883/972	884/849	882/746	881/657	870/577	350	Watts	59	96	138	176	215	215	CFM/ton	59	96	138	176	215	59	96	138	176	215
	400	82/103	124/123	170/138	223/152	270/168	400	CFM	82	103	170	223	270	270	Watts	82	124	170	223	270	82	124	170	223	270
	450	1007/1084	1016/971	1033/874	1020/788	1010/711	450	CFM	1007	1084	1033	1020	1010	1010	CFM/ton	1007	1016	1033	1020	1010	1007	1016	1033	1020	1010
	450	1133/1198	1146/1093	1176/1001	1140/919	1130/845	450	Watts	109	136	204	269	320	320	CFM/ton	109	154	204	269	320	109	154	204	269	320
3 tons	290	143/177	192/202	246/220	321/233	375/244	290	CFM	143	177	246	321	375	375	CFM/ton	143	192	246	321	375	143	192	246	321	375
	350	878/993	879/872	876/771	874/682	865/602	350	Watts	82	108	169	221	270	270	CFM	82	123	169	221	270	82	123	169	221	270
	400	1057/1154	1068/1045	1091/952	1070/869	1060/793	400	CFM	1057	1154	1091	1070	1060	1060	CFM/ton	1057	1068	1091	1070	1060	1057	1068	1091	1070	1060
	450	122/160	168/184	220/201	289/213	340/225	450	Watts	122	160	220	289	340	340	CFM/ton	122	168	220	289	340	122	168	220	289	340
	450	1209/1289	1223/1190	1255/1102	1210/1024	1190/952	450	CFM	1209	1289	1255	1210	1190	1190	CFM/ton	1209	1223	1255	1210	1190	1209	1223	1255	1210	1190
3.5 tons	290	168/216	219/243	277/262	355/276	410/287	290	Watts	168	216	277	355	410	410	CFM	168	219	277	355	410	168	219	277	355	410
	350	1364/1426	1375/1334	1393/1253	1340/1179	1330/1110	350	CFM	1364	1426	1393	1340	1330	1330	CFM/ton	1364	1375	1393	1340	1330	1364	1375	1393	1340	1330
	400	230/287	286/317	350/339	429/355	480/367	400	Watts	230	287	350	429	480	480	CFM/ton	230	286	350	429	480	230	286	350	429	480
	450	1022/1123	1031/1012	1050/917	1030/832	1030/756	450	CFM	1022	1123	1050	1030	1030	1030	CFM/ton	1022	1031	1050	1030	1030	1022	1031	1050	1030	1030
	450	113/148	158/172	209/188	275/201	325/213	450	Watts	113	148	209	275	325	325	CFM/ton	113	158	209	275	325	113	158	209	275	325
4 tons †	290	1235/1312	1249/1214	1242/1128	1230/1050	1220/978	290	CFM	1235	1312	1242	1230	1220	1220	CFM/ton	1235	1249	1242	1230	1220	1235	1249	1242	1230	1220
	350	178/227	229/254	288/274	367/288	420/299	350	Watts	178	227	288	367	420	420	CFM/ton	178	229	288	367	420	178	229	288	367	420
	400	1416/1471	1424/1383	1399/1303	1380/1230	1370/1163	400	CFM	1416	1471	1399	1380	1370	1370	CFM/ton	1416	1424	1399	1380	1370	1416	1424	1399	1380	1370
	450	254/314	313/263	378/368	455/385	510/398	450	Watts	254	314	378	455	510	510	CFM/ton	254	313	378	455	510	254	313	378	455	510
	450	1601/1618	1591/1536	1547/1462	1500/1394	1390/1330	450	CFM	1601	1618	1547	1500	1390	1390	CFM/ton	1601	1591	1547	1500	1390	1601	1591	1547	1500	1390
4 tons †	290	356/420	423/454	497/480	553/500	520/514	290	Watts	356	420	497	553	520	520	CFM/ton	356	423	497	553	520	356	423	497	553	520
	350 †	1168/1276	1182/1175	1182/1087	1170/1007	1160/935	350 †	CFM	1168	1276	1182	1170	1160	1160	CFM/ton	1168	1182	1182	1170	1160	1168	1182	1182	1170	1160
	400	155/209	204/235	260/254	337/268	390/279	400	Watts	155	209	260	337	390	390	CFM/ton	155	204	260	337	390	155	204	260	337	390
	450	1416/1492	1424/1404	1399/1325	1380/1252	1370/1185	450	CFM	1416	1492	1399	1380	1370	1370	CFM/ton	1416	1424	1399	1380	1370	1416	1424	1399	1380	1370
	450	254/326	313/357	378/381	455/398	510/411	450	Watts	254	326	378	455	510	510	CFM/ton	254	313	378	455	510	254	313	378	455	510
4 tons †	290	1628/1616	1614/1535	1534/1461	1500/1393	1390/1329	290	CFM	1628	1616	1534	1500	1393	1390	CFM/ton	1628	1614	1534	1500	1390	1628	1614	1534	1500	1390
	350	373/435	441/468	517/492	568/510	520/524	350	Watts	373	435	517	568	520	520	CFM/ton	373	441	517	568	520	373	441	517	568	520
	400	1714/1605	1686/1525	1550/1452	1500/1385	1390/1321	400	CFM	1714	1605	1550	1500	1385	1390	CFM/ton	1714	1686	1550	1500	1390	1714	1686	1550	1500	1390
	450	431/435	505/468	584/492	617/510	520/570	450	Watts	431	435	584	617	510	520	CFM/ton	431	505	584	617	520	431	505	584	617	520
	450	1168/1276	1182/1175	1182/1087	1170/1007	1160/935	450	CFM	1168	1276	1182	1170	1160	1160	CFM/ton	1168	1182	1182	1170	1160	1168	1182	1182	1170	1160

- † 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" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter



Performance Data

OUTDOOR MULTIPLIER (TONS)	5STEMCD06AV41DA & 5STEMCD07AV51DA AIRFLOW PERFORMANCE										CONSTANT CFM MODE / CONSTANT TORQUE MODE															
	COOLING AIRFLOW SETTING					EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque)					HEATING AIRFLOW SETTING					AIRFLOW POWER					EXTERNAL STATIC PRESSURE					
	290	350	400	450	290	0.1	0.3	0.5	0.7	0.9	290	350	400	450	290	CFM	Watts	CFM	Watts	CFM	Watts	0.1	0.3	0.5	0.7	0.9
3 tons	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	864/1015	856/883	851/772	850/676	820/590	290	350	400	450	290	CFM	Watts	CFM/ton	Watts	CFM	Watts	864	856	851	843	822
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	80/96	119/121	170/141	217/160	276/182	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	Watts	Watts	CFM	Watts	CFM	Watts	76	119	168	219	276
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1037/1179	1037/1059	1040/957	1030/866	1030/784	CFM	CFM	CFM	CFM	CFM	CFM	Watts	CFM/ton	Watts	CFM	Watts	1037	1037	1040	1039	1032
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	120/137	170/164	224/185	265/204	334/221	CFM	CFM	CFM	CFM	CFM	Watts	Watts	CFM/ton	Watts	CFM	Watts	110	158	213	271	334
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1184/1317	1187/1207	1193/1110	1180/1024	1190/945	CFM	CFM	CFM	CFM	CFM	CFM	Watts	CFM/ton	Watts	CFM	Watts	1184	1187	1193	1196	1197
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	160/180	215/209	275/233	325/251	380/268	CFM	CFM	CFM	CFM	CFM	Watts	Watts	CFM/ton	Watts	CFM	Watts	149	200	260	324	393
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1334/1457	1336/1354	1343/1263	1340/1181	1340/1105	CFM	CFM	CFM	CFM	CFM	CFM	Watts	CFM/ton	Watts	CFM	Watts	1334	1336	1343	1348	1353
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	205/232	265/265	335/290	395/310	460/327	CFM	CFM	CFM	CFM	CFM	Watts	Watts	CFM/ton	Watts	CFM	Watts	198	254	318	388	461
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1015/1147	1000/1025	1000/921	1000/829	1000/746	CFM	CFM	CFM	CFM	CFM	CFM	Watts	CFM/ton	Watts	CFM	Watts	1003	1002	1004	1002	992
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	115/128	160/155	205/176	255/194	309/212	CFM	CFM	CFM	CFM	CFM	CFM	Watts	CFM/ton	Watts	CFM	Watts	103	149	203	260	322
3.5 tons	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1210/1341	1210/1231	1210/1136	1210/1050	1210/971	350	400	450	290	350	CFM	Watts	CFM/ton	Watts	CFM	Watts	1209	1212	1218	1222	1224
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	165/188	220/218	280/241	335/260	395/277	CFM	CFM	CFM	CFM	CFM	Watts	Watts	CFM/ton	Watts	CFM	Watts	157	208	269	334	403
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1380/1503	1380/1403	1390/1314	1390/1233	1390/1159	CFM	CFM	CFM	CFM	CFM	CFM	Watts	CFM/ton	Watts	CFM	Watts	1384	1386	1393	1397	1402
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	195/252	285/286	355/312	420/332	485/349	CFM	CFM	CFM	CFM	CFM	Watts	Watts	CFM/ton	Watts	CFM	Watts	217	275	340	412	487
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1560/1667	1560/1575	1570/1492	1570/1416	1579/1345	CFM	CFM	CFM	CFM	CFM	CFM	Watts	CFM/ton	Watts	CFM	Watts	1563	1563	1566	1566	1564
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	295/332	365/369	440/398	515/421	595/439	CFM	CFM	CFM	CFM	CFM	Watts	Watts	CFM/ton	Watts	CFM	Watts	293	362	429	507	588
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1140/1304	1140/1192	1140/1095	1140/1008	1150/929	CFM	CFM	CFM	CFM	CFM	CFM	Watts	CFM/ton	Watts	CFM	Watts	1144	1147	1152	1155	1154
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	145/175	200/204	255/227	310/246	365/263	CFM	CFM	CFM	CFM	CFM	Watts	Watts	CFM/ton	Watts	CFM	Watts	138	188	247	309	376
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1380/1525	1380/1426	1390/1338	1390/1257	1390/1183	CFM	CFM	CFM	CFM	CFM	CFM	Watts	CFM/ton	Watts	CFM	Watts	1384	1386	1393	1397	1402
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	220/262	285/295	355/322	420/343	485/360	CFM	CFM	CFM	CFM	CFM	Watts	Watts	CFM/ton	Watts	CFM	Watts	217	275	340	412	487
4 tons	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1590/1711	1590/1621	1590/1539	1590/1464	1600/1394	400	450	500	290	400	CFM	Watts	CFM/ton	Watts	CFM	Watts	1589	1588	1591	1589	1585
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	305/356	380/267	455/356	535/267	610/466	CFM	CFM	CFM	CFM	CFM	Watts	Watts	CFM/ton	Watts	CFM	Watts	305	376	444	522	604
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1790/1898	1790/1816	1800/1741	1800/1670	1810/1604	CFM	CFM	CFM	CFM	CFM	CFM	Watts	CFM/ton	Watts	CFM	Watts	1800	1794	1791	1773	1745
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	410/474	495/597	585/548	670/575	760/597	CFM	CFM	CFM	CFM	CFM	Watts	Watts	CFM/ton	Watts	CFM	Watts	419	509	575	660	749
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1430/1571	1440/1475	1440/1388	1440/1309	1440/1236	CFM	CFM	CFM	CFM	CFM	CFM	Watts	CFM/ton	Watts	CFM	Watts	1435	1436	1442	1446	1450
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	240/283	310/318	375/345	445/367	515/384	CFM	CFM	CFM	CFM	CFM	Watts	Watts	CFM/ton	Watts	CFM	Watts	237	297	364	437	514
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	1740/1851	1740/1767	1750/1690	1750/1619	1760/1552	CFM	CFM	CFM	CFM	CFM	CFM	Watts	CFM/ton	Watts	CFM	Watts	1747	1742	1740	1728	1707
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	380/442	465/482	550/514	635/541	720/562	CFM	CFM	CFM	CFM	CFM	Watts	Watts	CFM/ton	Watts	CFM	Watts	388	472	539	623	710
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	2000/2087	2000/2012	2010/1942	1980/1873	1870/317	CFM	CFM	CFM	CFM	CFM	CFM	Watts	CFM/ton	Watts	CFM	Watts	2015	2007	1995	1951	1877
	CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	540/619	635/663	735/700	810/729	810/378	CFM	CFM	CFM	CFM	CFM	Watts	Watts	CFM/ton	Watts	CFM	Watts	559	679	739	810	810
CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	2260/2141	2210/2068	2100/1999	1980/903	1870/315	CFM	CFM	CFM	CFM	CFM	CFM	Watts	CFM/ton	Watts	CFM	Watts	2125	2117	2100	2038	1932	
CFM/ton	CFM/ton	CFM/ton	CFM/ton	CFM/ton	745/686	810/729	810/766	810/359	810/405	CFM	CFM	CFM	CFM	CFM	Watts	Watts	CFM/ton	Watts	CFM	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 1800 CFM due to condensate blowoff.
- Torque mode will reduce airflow when static is above approximately 0.3" 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 1. Electrical Data

STEMCB02AV21DA 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 *	4	15			2.8 *	4	15
BAYHTR1504BRK BAYHTR1504LUG	1/1	3.84	13100	16.0	24	25	2.88	9800	13.8	21	25
BAYHTR1505BRK BAYHTR1505LUG	1/1	4.80	16400	20.0	29	30	3.60	12300	17.3	25	25
BAYHTR1508BRK BAYHTR1508LUG	1/1	7.68	26200	32.0	44	45	5.76	19700	27.7	38	40
BAYHTR1510BRK BAYHTR1510LUG	1/1	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
BAYHTR1517BRK Circuit 1 ^(a)	2/1	9.60	32800	40.0	54	60	7.20	24600	34.6	47	50
BAYHTR1517BRK Circuit 2		4.80	16400	20.0	25	25	3.60	12300	17.3	22	25
BAYHTR3510LUG	1/3	9.60	32800	23.1	32	35	7.20	24600	20.0	28	30
BAYHTR3517LUG	1/3	14.40	49100	34.6	46	50	10.80	36900	30.0	41	45

* = Motor Amps

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

Table 2. Electrical Data

STEMCB03AV31DA 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 *	5	15			3.9 *	5	15
BAYHTR1504BRK BAYHTR1504LUG	1/1	3.84	13100	16.0	25	25	2.88	9800	13.8	22	25
BAYHTR1505BRK BAYHTR1505LUG	1/1	4.80	16400	20.0	30	30	3.60	12300	17.3	27	30
BAYHTR1508BRK BAYHTR1508LUG	1/1	7.68	26200	32.0	45	45	5.76	19700	27.7	39	40
BAYHTR1510BRK BAYHTR1510LUG	1/1	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
BAYHTR1517BRK Circuit 1 ^(a)	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
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

* = Motor Amps

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

Table 3. Electrical Data

STEMCD04AV31DA HEATER DATA											
STEMCD05AV41DA 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 *	5	15			3.9 *	5	15
BAYHTR1504BRK BAYHTR1504LUG	1/1	3.84	13100	16.0	25	25	2.88	9800	13.8	22	25
BAYHTR1505BRK BAYHTR1505LUG	1/1	4.80	16400	20.0	30	30	3.60	12300	17.3	27	30
BAYHTR1508BRK BAYHTR1508LUG	1/1	7.68	26200	32.0	45	45	5.76	19700	27.7	39	40
BAYHTR1510BRK BAYHTR1510LUG	1/1	9.60	32800	40.0	55	60	7.20	24600	34.6	48	50
BAYHTR1517BRK Circuit 1 (a)	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 (a)	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

* = Motor Amps

(a) MCA and MOP for circuit 1 contains the motor amps

Table 4. Electrical Data

STEMCD06AV41DA, HEATER DATA											
STEMCD07AV51DA 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 *	7	15			5.7 *	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 (a)	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 (a)	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 (a)	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

* = Motor Amps

(a) MCA and MOP for circuit 1 contains the motor amps



Minimum Airflow CFM

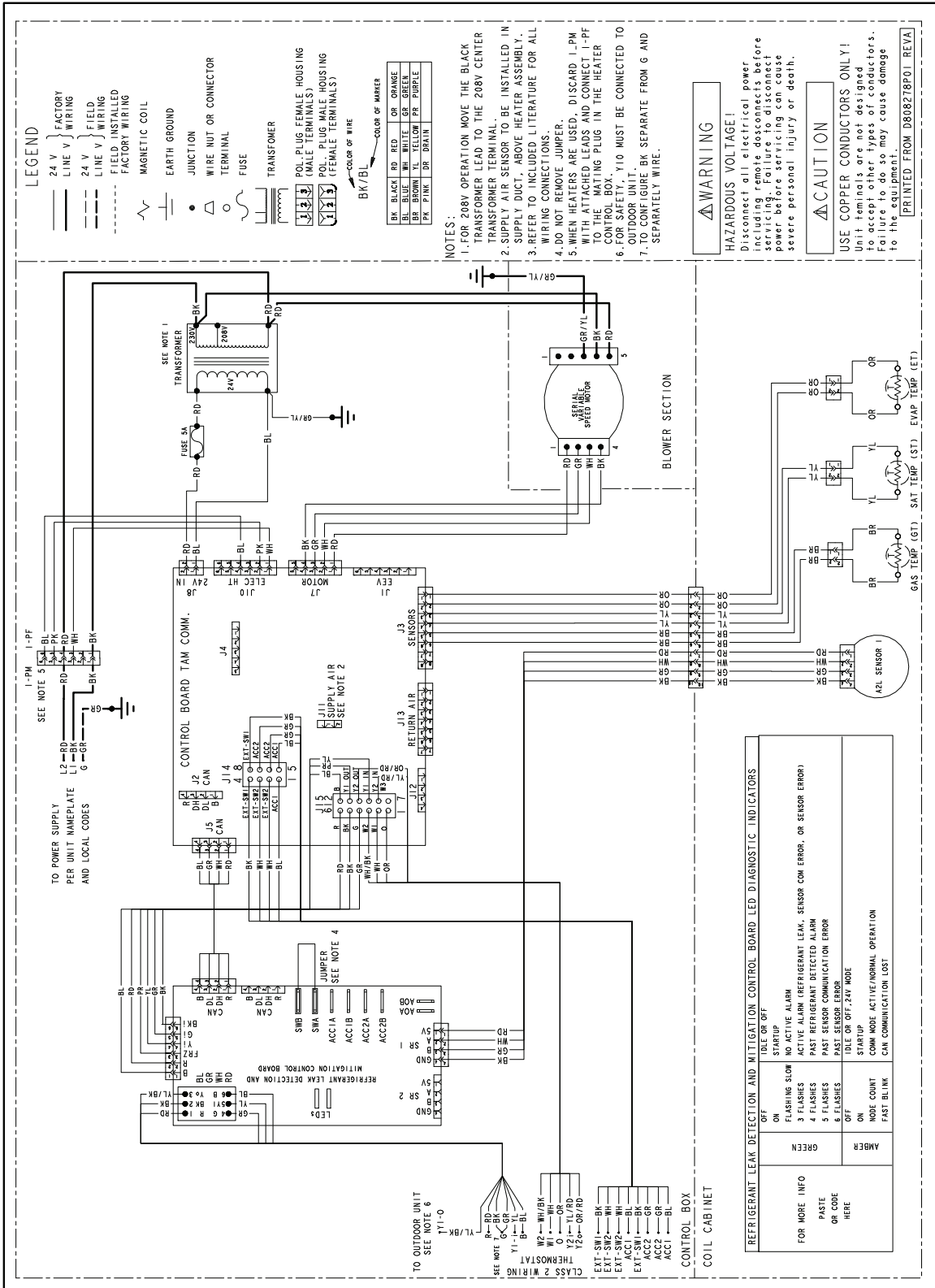
5STEMCB02AV21DA, 5STEMCB03AV31DA		
Heater	Minimum Heater Airflow CFM	
	With Heat Pump	Without Heat Pump
BAYHTR1504+++ , BAYHTR1505+++	650	600
BAYHTR1508+++ , BAYHTR1510+++	850	700
BAYHTR1517BRK, BAYHTR3517LUG	1000	850
BAYHTR3510LUG	850	700

5STEMCD04AV31DA, 5STEMCD05AV41DA		
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

5STEMCD06AV41DA, 5STEMCD07AV51DA		
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





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.

Table 5. Link Communicating Low Voltage Hook-Up Diagrams

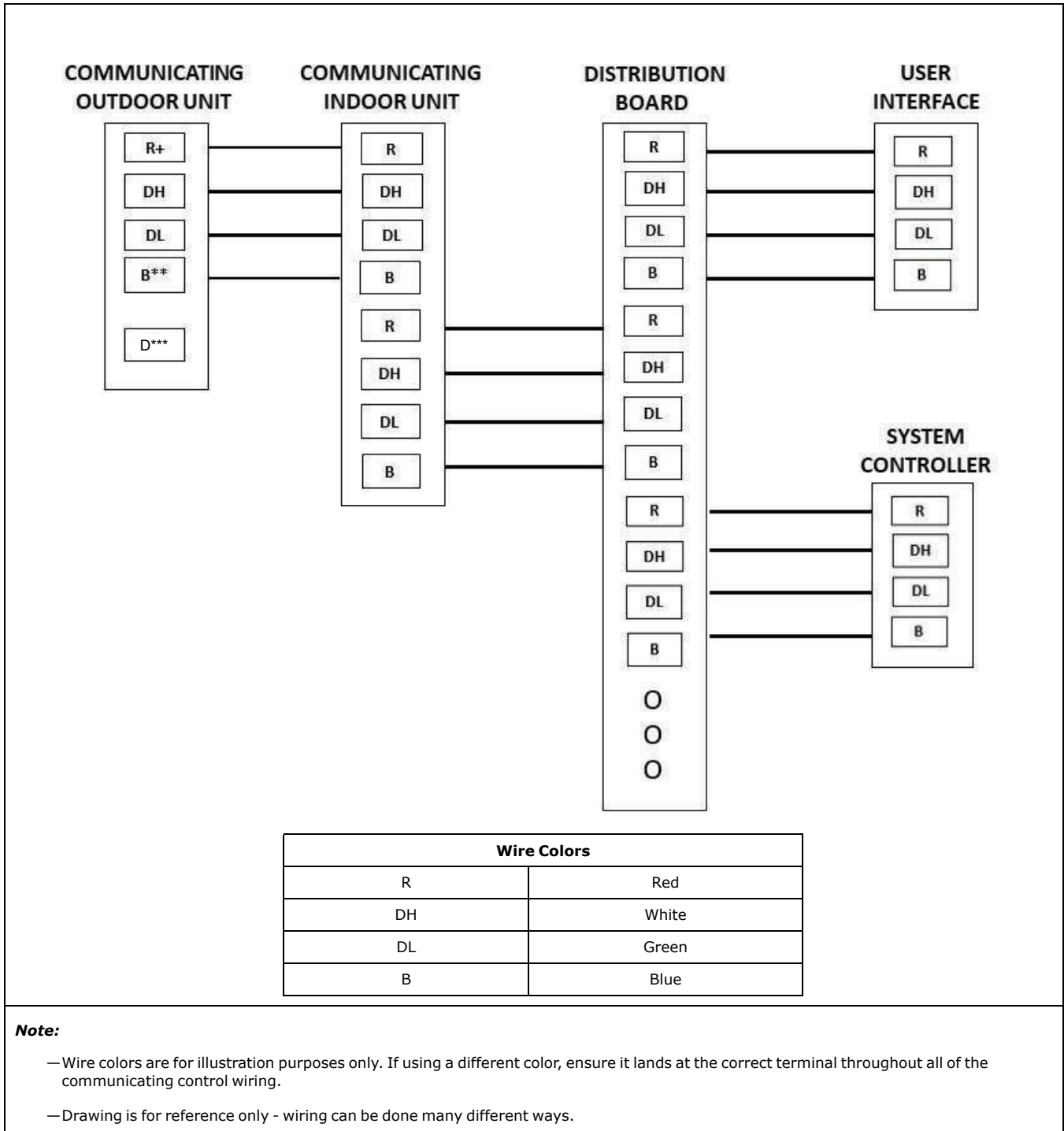
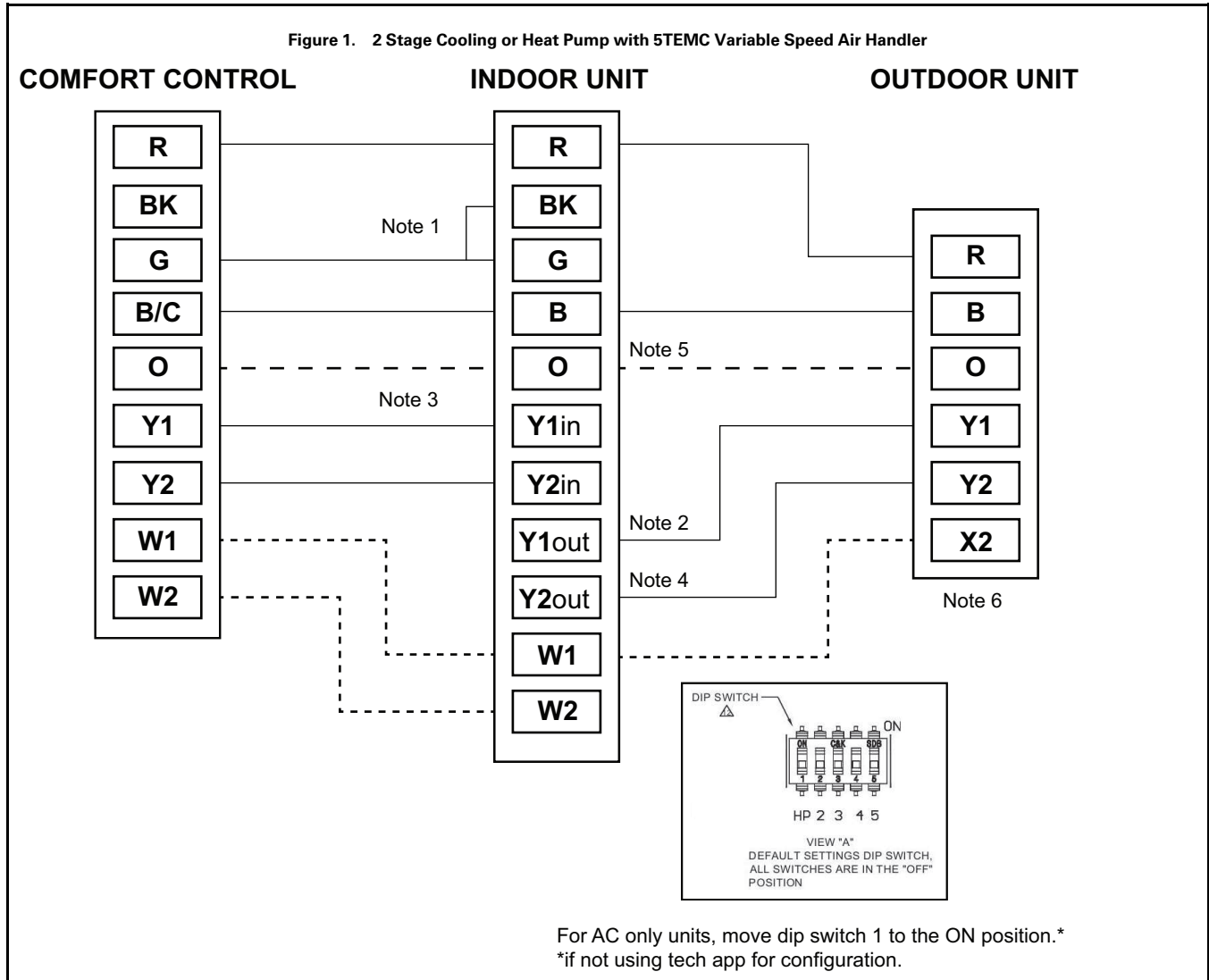


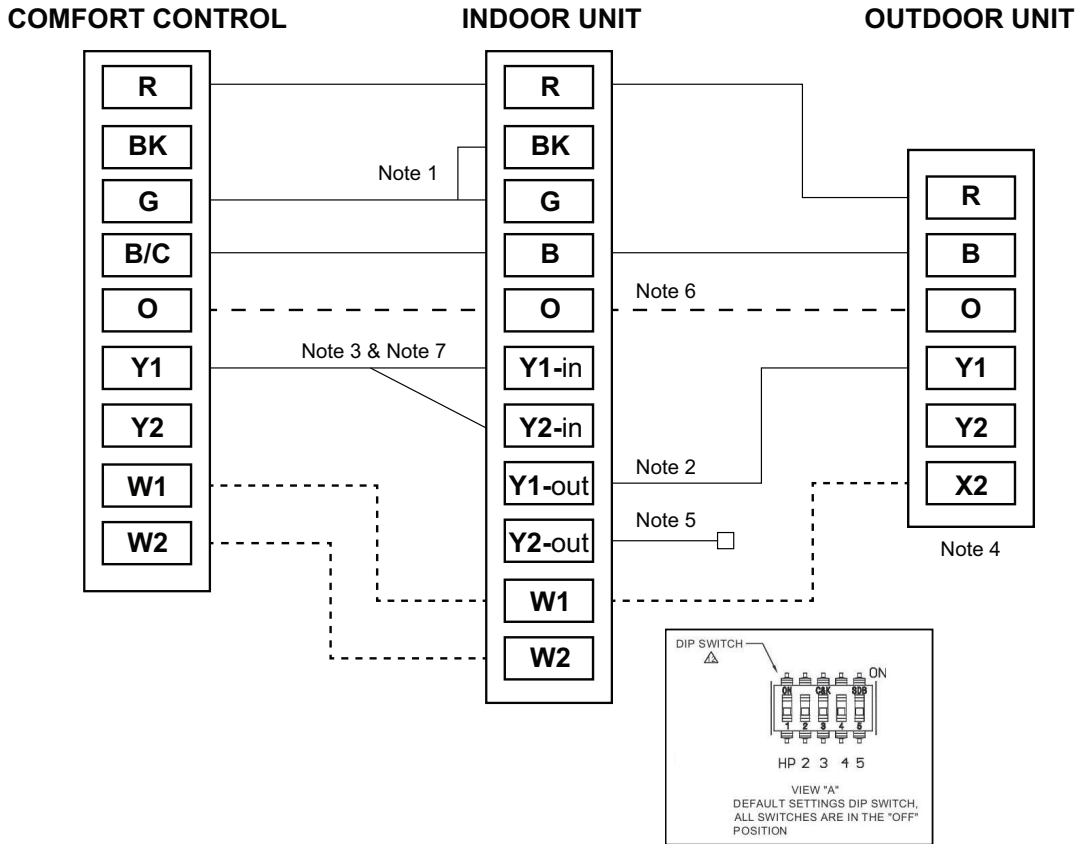
Table 6. 24 Volt Low Voltage Wiring



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.

Figure 2. 1 Stage Cooling or Heat Pump with 5STEMC Variable Speed Air Handler



For AC only units, move dip switch 1 to the ON position.*
*if not using tech app for configuration.

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.

5STEMC 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		

Table 7. External Switches and Accessories

<p>Use stripped wire connections in control box when connecting a humidifier, external switch, or other accessory to the air handler.</p> <ul style="list-style-type: none"> 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. <p>The external switches and accessories can be configured through the Smart Thermostat or the Diagnostics Mobile App.</p> <p>Note: See step 2 of Low Voltage Hook-up Instructions for switch location.</p> <p>Note: Accessories can be configured in the UX360 User Interface or Diagnostics Mobile App.</p> <p>Note: Accessories need configured using the Diagnostics Mobile App in 24 volt mode. There are no defaults in 24 volt mode.</p>	<p>Black Wires</p> <p>Ext Switch 1 External condensate, Smoke Detector</p>
	<p>White Wires</p> <p>Ext Switch 2 External condensate, Smoke Detector</p>
	<p>Blue Wires</p> <p>Accessory 1 EAC, Humidifier (Fan assist/ Bypass) Steam Humidifier</p>
	<p>Green Wires</p> <p>Accessory 2 EAC, Humidifier (Fan Assist/ Bypass) Steam Humidifier</p>

The following optional connections are available on the mitigation control board (see hook-up diagrams [Figure 3, p. 20](#)):

- 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.

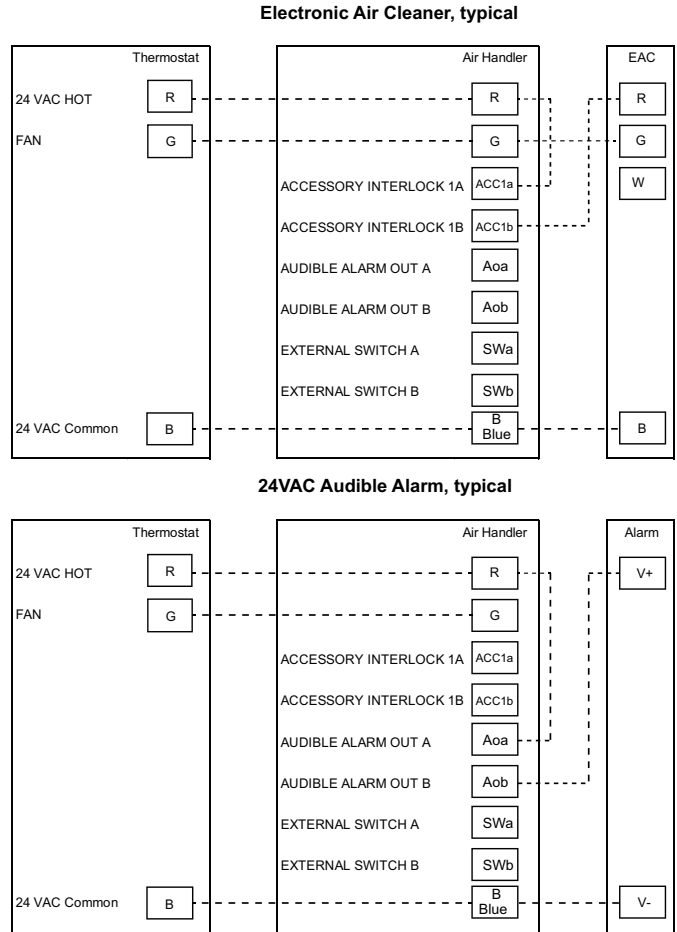
Connect using field-supplied 3/16" (Aoa/Aob) or 1/4" (ACC1, ACC2) female spade connections.

Figure 3. Accessories Diagram



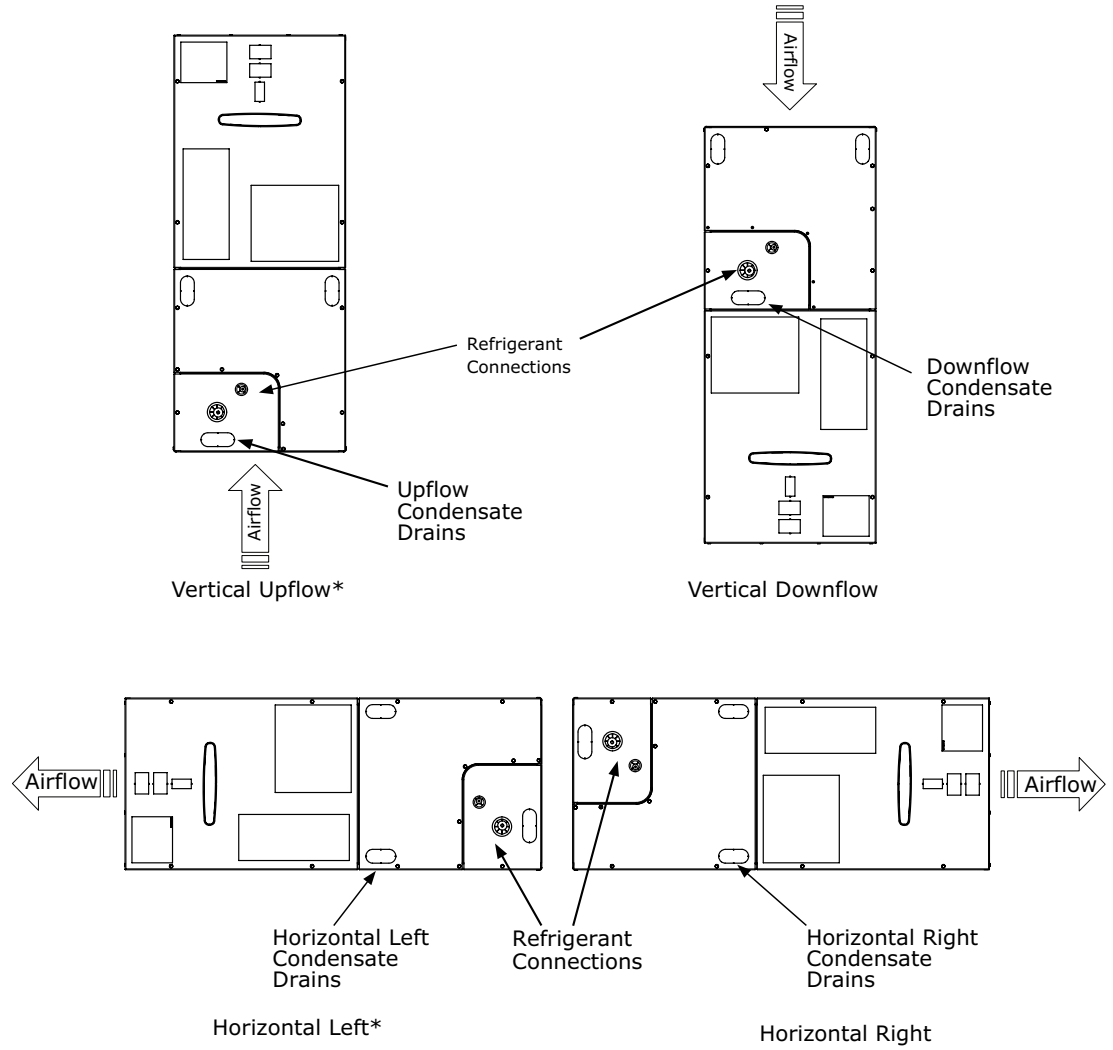
SCAN ME

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



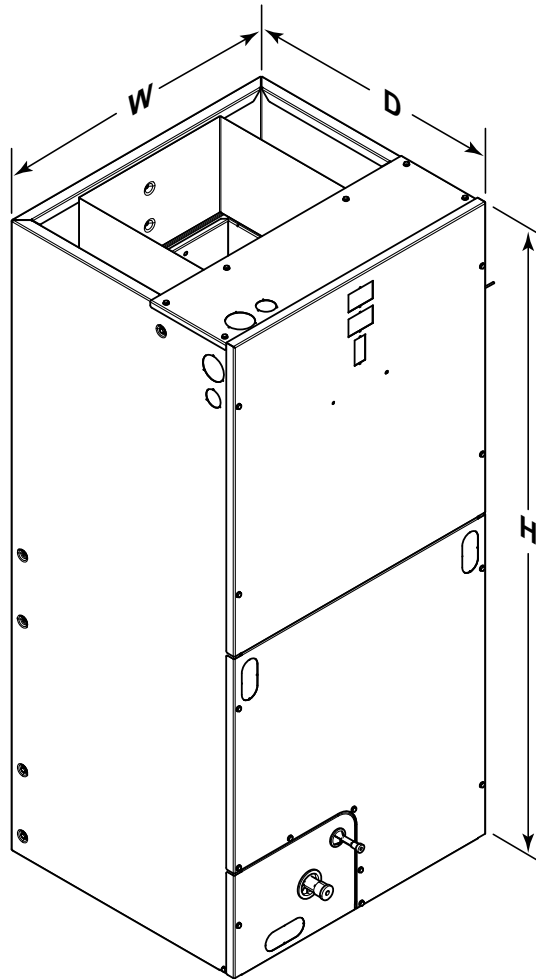
TEM Convertibility

Figure 4. Multi-Position Air Handler
 * = No Internal Modifications Required.





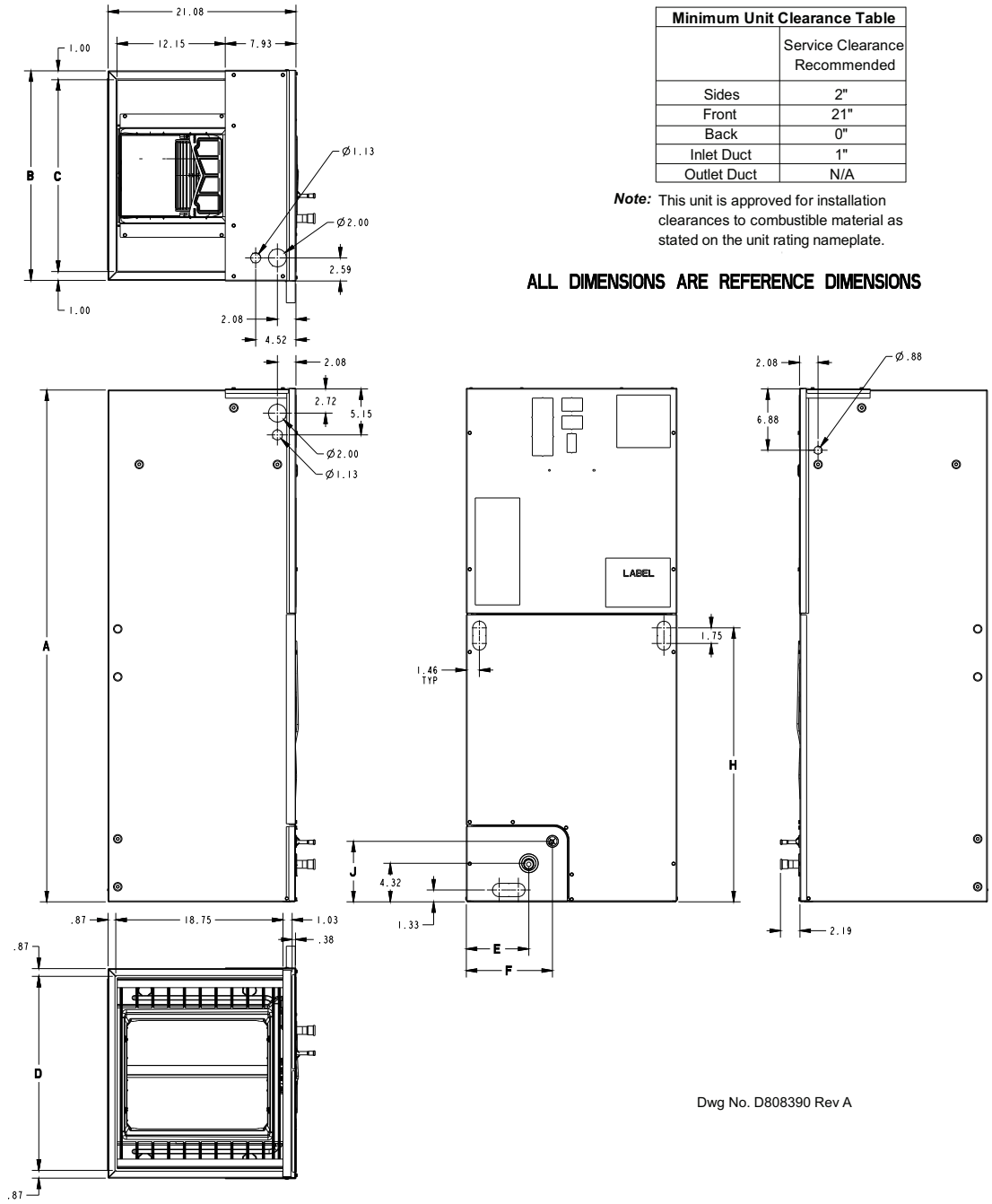
Air Handler Dimensional Data



Model No.	H	W	D
5TEMCB02AV21DA	46.77	18.50	21.08
5TEMCB03AV31DA	46.77	18.50	21.08
5TEMCD04AV31DA	51.27	23.50	21.08
5TEMCD05AV41DA	51.27	23.50	21.08
5TEMCD06AV41DA	57.40	23.50	21.08
5TEMCD07AV51DA	57.40	23.50	21.08



Outline Drawing



Minimum Unit Clearance Table	
	Service Clearance Recommended
Sides	2"
Front	21"
Back	0"
Inlet Duct	1"
Outlet Duct	N/A

Note: This unit is approved for installation clearances to combustible material as stated on the unit rating nameplate.

ALL DIMENSIONS ARE REFERENCE DIMENSIONS

Dwg No. D808390 Rev A

PRODUCT DIMENSIONS										
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
5TEMCB04, 05	51.27	23.50	21.50	21.75	7.01	9.66	24.58	6.76	TXV	7/8
5TEMCB06, 07	57.40	23.50	21.50	21.75	7.01	9.66	30.71	6.76	TXV	7/8

All dimensions are in inches



Trane - by Trane Technologies (NYSE: TT), a global innovator - creates comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit trane.com or tranetechnologies.com.



Trane 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.