

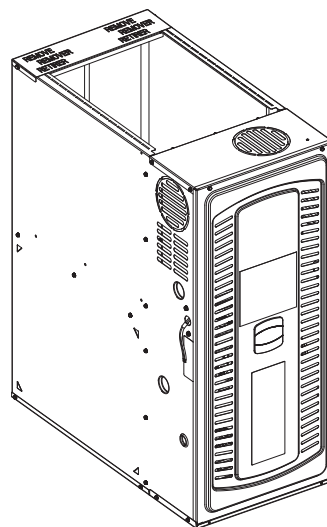


Product and Submittal Data

Modular Air Handlers — No Heat

Upflow, Downflow, Horizontal Right/Left

P0V0A000M30SDA
P0V0B000M40SDA
P0V0C000M50SDA
P0V0D000M50SDA



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



Introduction

The P0V0 series modular 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.

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Data Notes

This document supersedes and includes data from the documents listed below.

Table 1. Data notes

Literature Number	Title
22-1955-1*-EN	Modular Air Handlers— No Heat Upflow, Downflow, Horizontal Right/Left Model P0V0 Product Data
P0V0A000M30-SUB-1*-EN	Modular Blowers - No Heat P0V0A000M30SCA Submittal
P0V0B000M40-SUB-1*-EN	Modular Blowers - No Heat P0V0B000M40SCA Submittal
P0V0C000M50-SUB-1*-EN	Modular Blowers - No Heat P0V0C000M50SCA Submittal
P0V0D000M50-SUB-1*-EN	Modular Blowers - No Heat P0V0D000M50SCA Submittal



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General Features

Integrated System Control

Exclusively designed operational program provides total control of blowers and includes self diagnostics for ease of service.

Energy Efficient Operation

Air-Tite™ cabinet design is certified to <1% air leakage per ASHRAE 193 "Method of Test for Determining the Airtightness of HVAC Equipment."

Air Delivery

The variable speed blower motor has sufficient airflow for most compressor heating and cooling requirements and will switch from compressor heating to cooling speeds on demand from room thermostat.

Styling

Heavy gauge steel and "wrap-around" cabinet construction is used in the cabinet with baked-on enamel finish for strength and beauty.

Matches S-Series Furnace Dimensions

34-inch cabinet height

Standard furnace widths: 14.5 inch, 17.5 inch, 21 inch, 24.5 inch

All Electric Operation

120V wiring connections

Reduces carbon footprint



Features and Benefits

Variable Speed Blower Motor

Helps lower utility bills

Whole home humidity control

Electrically Efficient

Efficient airflow design reduces electrical energy use

Entirely electric operation reduces home HVAC emissions

34-Inch Tall

Lighter, easier to move and fit into tight spaces like short basements or tight closets

Works great with larger, high-efficiency coils

4-Way Multi-Poise

All models are convertible to Upflow / Downflow / Horizontal Left / Horizontal Right

Added application flexibility and reduction in specification errors

Airflow

At least 400 CFM/ton at 0.5 in. H₂O external static pressure

Regulatory

All models are air tight; 1% or less air leakage as per ASHRAE 193

Open vestibule design provides a full 34 inch high open vestibule for ease of installation and service

Dimensions

Widths match furnace standards: 14.5 inch, 17.5 inch, 21 inch, and 24.5 inch

Depth remains approximately 28-inch

Compatible with industry standard coils and accessories

Integrated Modular Air Handler Control

Setup / Status / Diagnostics / Digital Display

No dip switches

Last six errors stored

Dry contact EAC and HUM connections

All Molex connections; no spade terminals

Low voltage labeled above and below

Exclusively Designed Vortica™ II Blower

Improved airflow efficiency

Durable, easy to clean housing

Single piece belly band/ motor arm assembly

Blower deck has full-length rails for easy removal and replacement, regardless of poise

120V Wiring Connections

Easier transitions from AC/furnace to HP/Air handler systems

No need to re-wire for 220 volts that traditional air handlers require



Accessories

Table 2. Accessories

Model Number	Description	Use with
BAYHANG	Horizontal Hanging Kit	All modular air handlers
BAYLIFTB	Dual Return Kit (B size extension)	B Cabinet modular air handlers
BAYLIFTC	Dual Return Kit (C size extension)	C Cabinet modular air handlers
BAYLIFTD	Dual Return Kit (D size extension)	D Cabinet modular air handlers
BAYFLTR206	Filter Access Door Kit (Downflow only)	All modular air handlers in Downflow orientation
BAYSF1165AA ^(a)	1-in. SlimFit Box with 16x20 MERV 4 Filter	All modular air handlers
BAYSF1255BA	1-in. SlimFit Box with 16x25 MERV 4 Filter	All modular air handlers when used in side return application B Cabinet modular air handlers only when in bottom return application
FLRSF1255	1-in Filter replacement (Qty 12)	BAYSF1255BA
BAYFLTR203	Horizontal Filter Kit	B Cabinet modular air handlers in Downflow/ Horizontal
BAYFLTR204	Horizontal Filter Kit	C Cabinet modular air handlers in Downflow/ Horizontal
BAYFLTR205	Horizontal Filter Kit	D Cabinet modular air handlers in Downflow/ Horizontal

^(a) Airflow greater than 1600 CFM, Furnace will require return air openings and filters on: (1) both sides, (2) one side and the bottom, or (3) just on the bottom.



Product Specifications

Table 3. Models P0V0A000M30SDA, P0V0B000M40SDA, P0V0C000M50SDA, and P0V0D000M50SDA

Model	P0V0A000M30SDA	P0V0B000M40SDA	P0V0C000M50SDA	P0V0D000M50SDA
Type	Upflow / Horizontal / Downflow	Upflow / Horizontal / Downflow	Upflow / Horizontal / Downflow	Upflow / Horizontal / Downflow
Blower Drive	DIRECT	DIRECT	DIRECT	DIRECT
Diameter - Width (in.)	11 X 8	11 X 8	11 X 10	11 X 10
No. Used	1	1	1	1
Speeds (No.)	Variable	Variable	Variable	Variable
CFM vs. in. w.g.	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table
Motor HP	1/2	3/4	1	1
R.P.M.	Variable	Variable	Variable	Variable
Volts / Ph / Hz	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
FLA	6.4	9.6	10.0	10.0
Filter — Furnished?	No	No	No	No
Type Recommended	High Velocity	High Velocity	High Velocity	High Velocity
Hi Vel. (No.-Size-Thk.)	1 - 14 X 25 - 1 in.	1 - 16 X 25 - 1 in.	1 - 20 X 25 - 1 in.	1 - 24 X 25 - 1 in.
Power Conn. — V/Ph/Hz ^(a)	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
Ampacity (In Amps)	8.2	12.2	12.7	12.7
Max. Overcurrent Protection (Amps)	15	15	15	15
Weight	—			
Shipping (Lbs.)	83	92	101	107

^(a) The wiring specifications are in accordance with National Electrical Code; however, installations must comply with local codes.



Airflow Tables

Table 4. Airflow performance - model P0V0A000M30SDA

P0V0A000M30SDA Modular Air Handler Airflow (CFM) and Power (Watts) vs. External Static Pressure without Filter						
Outdoor Tonnage (tons)	Airflow Setting (CFM/Ton)	External Static Pressure (in. W. C.) VS. CFM / Watts				
		0.1	0.3	0.5	0.7	0.9
1.5 Ton	450	671 / 46	676 / 91	681 / 135	685 / 178	690 / 219
	420	627 / 40	631 / 83	636 / 125	642 / 166	648 / 206
	400	597 / 37	601 / 78	606 / 119	613 / 159	620 / 197
	370	553 / 32	556 / 72	562 / 111	569 / 149	578 / 185
	350	523 / 29	525 / 67	532 / 105	540 / 142	549 / 178
	330	493 / 27	495 / 63	502 / 100	511 / 136	521 / 171
	310	464 / 24	465 / 60	472 / 95	481 / 130	492 / 164
	290	434 / 22	434 / 56	442 / 91	452 / 125	463 / 158
2.0 Ton	450	896 / 84	901 / 141	901 / 196	900 / 249	898 / 300
	420	836 / 72	841 / 126	843 / 178	843 / 228	843 / 276
	400	796 / 65	801 / 116	803 / 167	805 / 215	806 / 261
	370	736 / 55	741 / 104	745 / 151	748 / 196	750 / 240
	350	696 / 49	701 / 96	705 / 141	709 / 185	713 / 227
	330	656 / 44	661 / 88	666 / 132	671 / 174	676 / 215
	310	617 / 39	621 / 82	626 / 123	632 / 164	639 / 203
	290	577 / 35	581 / 75	587 / 115	593 / 154	601 / 192
2.5 Ton	450	1126 / 143	1126 / 212	1122 / 279	1114 / 343	1104 / 405
	420	1048 / 121	1051 / 186	1048 / 249	1043 / 309	1035 / 367
	400	997 / 107	1001 / 170	999 / 230	995 / 288	990 / 344
	370	921 / 89	926 / 148	926 / 204	924 / 258	921 / 310
	350	871 / 79	876 / 134	877 / 188	877 / 240	875 / 290
	330	821 / 69	826 / 122	828 / 173	829 / 223	829 / 271
	310	771 / 61	776 / 111	779 / 160	781 / 207	783 / 252
	290	721 / 53	726 / 101	730 / 147	733 / 192	737 / 235
3.0 Ton ^(a)	450	1361 / 228	1355 / 310	1343 / 389	1327 / 466	1309 / 539
	420	1266 / 191	1263 / 268	1255 / 342	1242 / 413	1227 / 482
	400	1203 / 168	1202 / 242	1195 / 312	1185 / 381	1172 / 446
	370	1110 / 138	1111 / 207	1107 / 273	1100 / 336	1090 / 397
	350 ^(a)	1048 / 121	1051 / 186	1048 / 249	1043 / 309	1035 / 367
	330	987 / 105	991 / 167	990 / 226	986 / 284	980 / 339
	310	926 / 90	931 / 149	931 / 206	929 / 260	926 / 313
	290	866 / 78	871 / 133	872 / 187	872 / 238	870 / 288

^(a) Factory Setting

Table 5. Airflow performance - model P0V0B000M40SDA

P0V0B000M40SDA Modular Air Handler Airflow (CFM) and Power (Watts) vs. External Static Pressure without Filter						
Outdoor Tonnage (tons)	Airflow Setting (CFM/Ton)	External Static Pressure (in. W. C.) VS. CFM/Watts				
		0.1	0.3	0.5	0.7	0.9
1.5 Ton	450	661 / 41	663 / 74	666 / 111	668 / 150	671 / 191
	420	614 / 35	616 / 68	618 / 104	621 / 142	623 / 183
	400	582 / 32	584 / 64	587 / 100	589 / 138	592 / 178
	370	534 / 28	537 / 59	539 / 94	542 / 131	544 / 171
	350	502 / 25	505 / 56	507 / 90	510 / 128	512 / 168
	330	470 / 23	473 / 53	475 / 87	477 / 124	480 / 164
	310	438 / 20	440 / 50	443 / 84	445 / 121	448 / 162
	290	406 / 19	408 / 48	411 / 81	413 / 119	415 / 160
2.0 Ton	450	893 / 81	895 / 116	898 / 157	900 / 200	903 / 244
	420	832 / 68	834 / 103	837 / 143	839 / 185	841 / 228
	400	791 / 61	793 / 95	795 / 134	798 / 175	800 / 218
	370	729 / 50	731 / 84	733 / 122	736 / 163	738 / 204
	350	687 / 44	689 / 78	692 / 115	694 / 155	697 / 196
	330	645 / 39	648 / 72	650 / 109	652 / 148	655 / 188
	310	603 / 34	606 / 67	608 / 103	610 / 141	613 / 181
	290	561 / 30	563 / 62	566 / 97	568 / 135	571 / 175
2.5 Ton	450	1118 / 147	1120 / 183	1123 / 225	1125 / 271	1127 / 320
	420	1044 / 122	1046 / 158	1048 / 199	1051 / 245	1053 / 292
	400	994 / 107	996 / 142	999 / 184	1001 / 229	1003 / 275
	370	918 / 87	921 / 122	923 / 163	925 / 207	928 / 252
	350	867 / 76	870 / 110	872 / 151	875 / 193	877 / 237
	330	816 / 65	819 / 100	821 / 139	824 / 181	826 / 224
	310	765 / 56	767 / 90	770 / 129	772 / 170	775 / 212
	290	713 / 48	715 / 82	718 / 120	720 / 160	723 / 201
3.0 Ton	450	1336 / 242	1338 / 280	1340 / 324	1343 / 372	1345 / 423
	420	1249 / 200	1252 / 237	1254 / 280	1257 / 328	1259 / 378
	400	1191 / 175	1194 / 212	1196 / 254	1198 / 301	1201 / 351
	370	1103 / 141	1105 / 178	1108 / 220	1110 / 266	1113 / 314
	350	1044 / 122	1046 / 158	1048 / 199	1051 / 245	1053 / 292
	330	984 / 104	986 / 140	989 / 181	991 / 226	993 / 272
	310	923 / 89	926 / 124	928 / 164	931 / 208	933 / 253
	290	862 / 75	865 / 109	867 / 150	870 / 192	872 / 236



Airflow Tables

Table 5. Airflow performance - model P0V0B000M40SDA (continued)

P0V0B000M40SDA Modular Air Handler Airflow (CFM) and Power (Watts) vs. External Static Pressure without Filter						
Outdoor Tonnage (tons)	Airflow Setting (CFM/Ton)	External Static Pressure (in. W. C.) VS. CFM/Watts				
		0.1	0.3	0.5	0.7	0.9
3.5 Ton	450	1546 / 373	1549 / 414	1551 / 459	1554 / 508	1556 / 560
	420	1449 / 307	1451 / 347	1454 / 391	1456 / 440	1458 / 491
	400	1383 / 268	1385 / 307	1388 / 351	1390 / 399	1393 / 450
	370	1283 / 216	1285 / 253	1288 / 297	1290 / 344	1293 / 394
	350	1215 / 185	1218 / 222	1220 / 265	1223 / 312	1225 / 362
	330	1147 / 157	1150 / 194	1152 / 237	1154 / 283	1157 / 332
	310	1078 / 133	1081 / 169	1083 / 211	1086 / 257	1088 / 304
	290	1009 / 111	1011 / 147	1014 / 188	1016 / 233	1018 / 280
4.0 Ton ^(a)	450	1750 / 546	1752 / 589	1755 / 636	1757 / 687	1760 / 740
	420	1642 / 448	1645 / 490	1647 / 536	1649 / 586	1652 / 639
	400	1569 / 390	1572 / 431	1574 / 477	1576 / 526	1579 / 578
	370	1458 / 313	1461 / 353	1463 / 397	1465 / 446	1468 / 497
	350 (a)	1383 / 268	1385 / 307	1388 / 351	1390 / 399	1393 / 450
	330	1307 / 227	1309 / 265	1312 / 309	1314 / 356	1317 / 407
	310	1230 / 191	1232 / 228	1235 / 271	1237 / 319	1240 / 368
	290	1152 / 159	1154 / 196	1157 / 238	1159 / 285	1162 / 334

^(a) Factory Setting

Table 6. Airflow performance - model P0V0C000M50SDA

P0V0C000M50SDA Modular Air Handler Airflow (CFM) and Power (Watts) vs. External Static Pressure without Filter						
Outdoor Tonnage (tons)	Airflow Setting (CFM/Ton)	External Static Pressure (in. W. C.) VS. CFM/Watts				
		0.1	0.3	0.5	0.7	0.9
2.5 Ton	450	1145 / 87	1143 / 141	1141 / 195	1138 / 247	1136 / 295
	420	1071 / 74	1069 / 125	1067 / 178	1065 / 227	1062 / 273
	400	1022 / 66	1020 / 116	1018 / 167	1015 / 215	1013 / 259
	370	948 / 56	946 / 103	944 / 152	942 / 198	939 / 240
	350	899 / 50	897 / 96	895 / 143	892 / 187	890 / 229
	330	850 / 44	848 / 89	846 / 134	843 / 178	841 / 219
	310	801 / 39	799 / 82	796 / 127	794 / 169	792 / 209
	290	752 / 34	750 / 77	747 / 120	745 / 161	743 / 201
3.0 Ton	450	1366 / 137	1364 / 198	1362 / 260	1360 / 320	1357 / 376
	420	1278 / 115	1276 / 173	1273 / 232	1271 / 288	1269 / 341
	400	1219 / 102	1217 / 158	1214 / 215	1212 / 269	1210 / 320
	370	1130 / 84	1128 / 138	1126 / 192	1124 / 243	1121 / 291
	350	1071 / 74	1069 / 125	1067 / 178	1065 / 227	1062 / 273
	330	1012 / 65	1010 / 114	1008 / 165	1006 / 212	1003 / 257
	310	953 / 56	951 / 104	949 / 153	947 / 199	944 / 242
	290	894 / 49	892 / 95	890 / 142	888 / 186	885 / 228

Table 6. Airflow performance - model P0V0C000M50SDA (continued)

P0V0C000M50SDA Modular Air Handler Airflow (CFM) and Power (Watts) vs. External Static Pressure without Filter						
Outdoor Tonnage (tons)	Airflow Setting (CFM/Ton)	External Static Pressure (in. W. C.) VS. CFM/Watts				
		0.1	0.3	0.5	0.7	0.9
3.5 Ton	450	1588 / 205	1585 / 274	1583 / 344	1581 / 412	1579 / 476
	420	1484 / 170	1482 / 236	1480 / 302	1478 / 366	1475 / 427
	400	1416 / 150	1413 / 213	1411 / 277	1409 / 338	1407 / 396
	370	1312 / 123	1310 / 182	1308 / 242	1306 / 300	1303 / 354
	350	1244 / 107	1241 / 164	1239 / 222	1237 / 277	1234 / 329
	330	1175 / 93	1172 / 147	1170 / 203	1168 / 256	1166 / 305
	310	1106 / 80	1104 / 132	1101 / 186	1099 / 236	1097 / 283
	290	1037 / 68	1035 / 119	1032 / 170	1030 / 218	1028 / 263
4.0 Ton	450	1809 / 295	1807 / 372	1805 / 450	1802 / 527	1800 / 600
	420	1691 / 244	1689 / 317	1686 / 390	1684 / 462	1682 / 531
	400	1612 / 214	1610 / 283	1608 / 354	1606 / 423	1603 / 489
	370	1494 / 174	1492 / 239	1490 / 306	1488 / 370	1485 / 431
	350	1416 / 150	1413 / 213	1411 / 277	1409 / 338	1407 / 396
	330	1337 / 129	1335 / 189	1332 / 250	1330 / 309	1328 / 364
	310	1258 / 110	1256 / 168	1254 / 226	1251 / 282	1249 / 334
	290	1180 / 94	1177 / 148	1175 / 204	1173 / 257	1171 / 307
4.5 Ton	450	2030 / 411	2028 / 496	2026 / 583	2024 / 668	2021 / 751
	420	1898 / 338	1895 / 418	1893 / 500	1891 / 580	1888 / 657
	400	1809 / 295	1807 / 372	1805 / 450	1802 / 527	1800 / 600
	370	1676 / 238	1674 / 310	1672 / 383	1669 / 455	1667 / 523
	350	1588 / 205	1585 / 274	1583 / 344	1581 / 412	1579 / 476
	330	1499 / 175	1497 / 241	1495 / 308	1492 / 372	1490 / 433
	310	1411 / 149	1408 / 211	1406 / 275	1404 / 336	1402 / 394
	290	1322 / 125	1320 / 185	1318 / 245	1315 / 304	1313 / 358
5.0 Ton ^(a)	450	2252 / 555	2249 / 650	2247 / 745	2245 / 839	2243 / 931
	420	2104 / 455	2102 / 544	2100 / 633	2097 / 722	2095 / 807
	400	2006 / 396	2003 / 481	2001 / 566	1999 / 651	1997 / 733
	370	1858 / 318	1856 / 397	1854 / 477	1851 / 556	1849 / 631
	350 (a)	1760 / 273	1758 / 348	1755 / 424	1753 / 499	1751 / 571
	330	1662 / 232	1659 / 304	1657 / 376	1655 / 447	1652 / 515
	310	1563 / 196	1561 / 264	1559 / 333	1556 / 401	1554 / 464
	290	1465 / 164	1463 / 229	1460 / 295	1458 / 358	1456 / 418

^(a) Factory Setting



Airflow Tables

Table 7. Airflow performance - model P0V0D000M50SDA

P0V0D000M50SDA Modular Air Handler Airflow (CFM) and Power (Watts) vs. External Static Pressure without Filter						
Outdoor Tonnage (tons)	Airflow Setting (CFM/Ton)	External Static Pressure (in. W. C.) VS. CFM/Watts				
		0.1	0.3	0.5	0.7	0.9
3.0 Ton	450	1347 / 126	1353 / 182	1354 / 240	1352 / 300	1352 / 361
	420	1259 / 107	1265 / 159	1265 / 215	1262 / 272	1260 / 330
	400	1200 / 95	1206 / 146	1205 / 199	1201 / 254	1197 / 311
	370	1111 / 79	1117 / 127	1114 / 178	1108 / 230	1102 / 284
	350	1052 / 70	1058 / 116	1053 / 164	1045 / 215	1037 / 267
	330	994 / 61	998 / 105	992 / 152	981 / 200	971 / 251
	310	935 / 53	938 / 95	930 / 140	917 / 187	904 / 236
	290	876 / 46	878 / 86	867 / 129	851 / 175	837 / 222
3.5 Ton	450	1570 / 185	1573 / 248	1573 / 314	1574 / 381	1577 / 450
	420	1466 / 155	1470 / 215	1471 / 277	1471 / 342	1473 / 407
	400	1397 / 138	1402 / 195	1403 / 255	1402 / 317	1403 / 380
	370	1293 / 114	1299 / 168	1299 / 224	1297 / 283	1296 / 342
	350	1224 / 100	1231 / 151	1230 / 206	1226 / 262	1223 / 319
	330	1155 / 87	1162 / 136	1160 / 188	1154 / 242	1150 / 297
	310	1087 / 75	1092 / 122	1089 / 172	1082 / 223	1075 / 276
	290	1018 / 65	1023 / 109	1017 / 157	1008 / 206	999 / 257
4.0 Ton	450	1795 / 260	1792 / 330	1790 / 403	1790 / 479	1795 / 555
	420	1675 / 218	1675 / 284	1675 / 353	1675 / 425	1679 / 497
	400	1595 / 192	1597 / 256	1597 / 323	1598 / 391	1602 / 461
	370	1476 / 158	1480 / 218	1481 / 281	1481 / 345	1483 / 411
	350	1397 / 138	1402 / 195	1403 / 255	1402 / 317	1403 / 380
	330	1318 / 119	1324 / 174	1324 / 231	1322 / 291	1322 / 351
	310	1239 / 103	1245 / 155	1245 / 210	1241 / 266	1239 / 324
	290	1160 / 88	1167 / 137	1165 / 189	1159 / 243	1155 / 298
4.5 Ton	450	2020 / 353	2011 / 430	2005 / 511	2003 / 594	2007 / 678
	420	1885 / 295	1879 / 368	1876 / 444	1876 / 522	1880 / 602
	400	1795 / 260	1792 / 330	1790 / 403	1790 / 479	1795 / 555
	370	1660 / 213	1660 / 278	1660 / 347	1661 / 418	1665 / 490
	350	1570 / 185	1573 / 248	1573 / 314	1574 / 381	1577 / 450
	330	1481 / 159	1485 / 219	1486 / 282	1486 / 347	1488 / 413
	310	1392 / 137	1397 / 194	1398 / 254	1397 / 315	1398 / 378
	290	1303 / 116	1309 / 170	1309 / 227	1307 / 286	1306 / 346

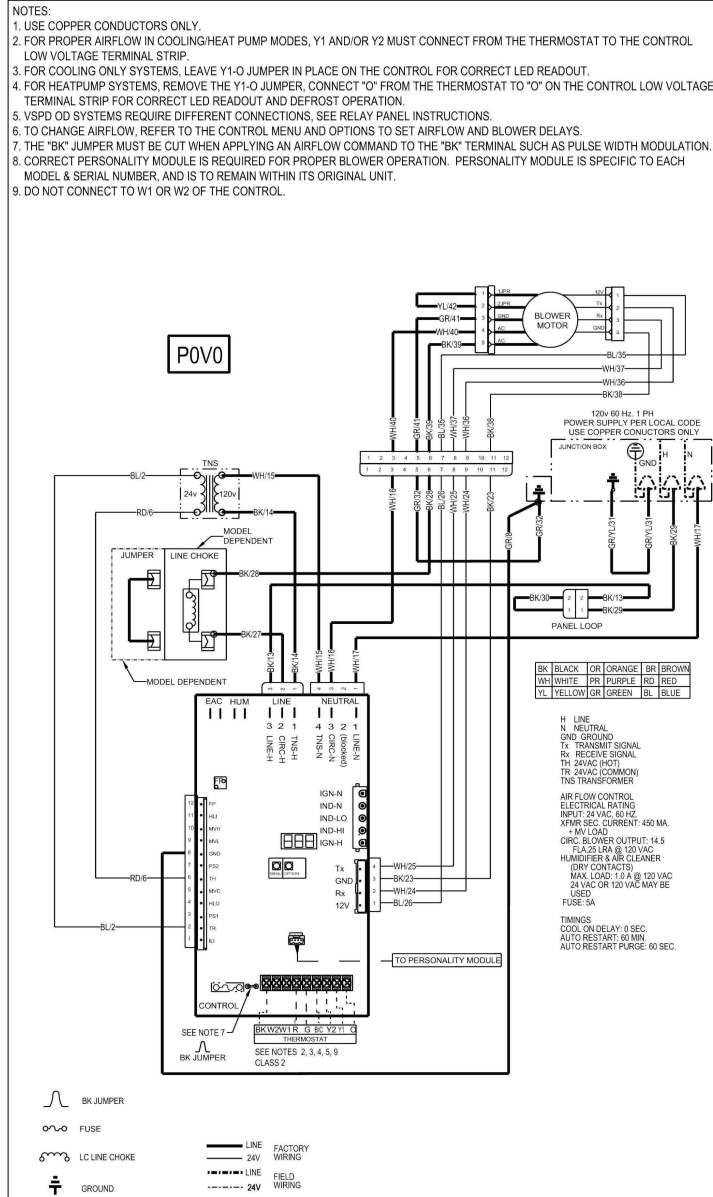
Table 7. Airflow performance - model P0V0D000M50SDA (continued)

P0V0D000M50SDA Modular Air Handler Airflow (CFM) and Power (Watts) vs. External Static Pressure without Filter						
Outdoor Tonnage (tons)	Airflow Setting (CFM/Ton)	External Static Pressure (in. W. C.) VS. CFM/Watts				
		0.1	0.3	0.5	0.7	0.9
5.0 Ton ^(a)	450	2247 / 466	2230 / 551	2219 / 639	2214 / 729	2215 / 821
	420	2096 / 388	2084 / 468	2076 / 551	2074 / 637	2076 / 723
	400	1995 / 341	1987 / 418	1981 / 498	1980 / 580	1983 / 663
	370	1845 / 279	1840 / 350	1838 / 426	1838 / 503	1842 / 581
	350 (a)	1745 / 241	1743 / 310	1742 / 382	1743 / 455	1747 / 530
	330	1645 / 208	1646 / 273	1646 / 342	1647 / 412	1650 / 483
	310	1546 / 177	1548 / 239	1549 / 305	1550 / 372	1553 / 439
	290	1446 / 150	1451 / 209	1452 / 271	1452 / 334	1453 / 399

^(a) Factory Setting

Wiring Diagram

Figure 1. Wiring diagram



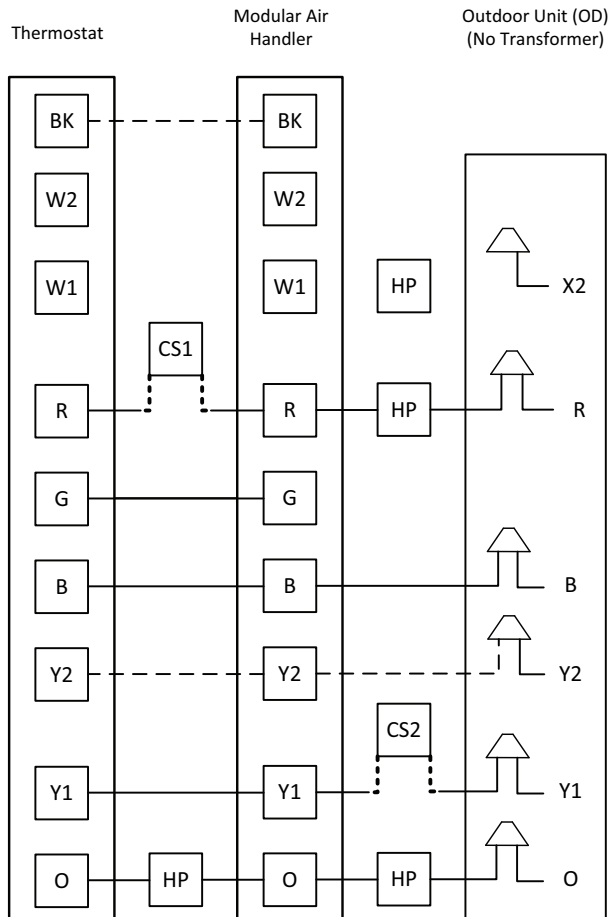
Electrical Connections

Make wiring connections to the unit as indicated on enclosed wiring diagram. This modular air handler shall be connected into a permanently live electric circuit. It is recommended that modular air handler be provided with a separate "circuit protection device" electric circuit. The modular air handler must be electrically grounded in accordance with local codes or in the absence of local codes with the National Electrical Code, ANSI/NFPA 70, if an external electrical source is utilized. *The integrated modular air handler control is polarity sensitive.* The hot leg of the 120V power supply must be connected to the black power lead as indicated on the wiring diagram.

See Installation, Operation, and Maintenance literature and unit wiring diagram attached to modular air handler.

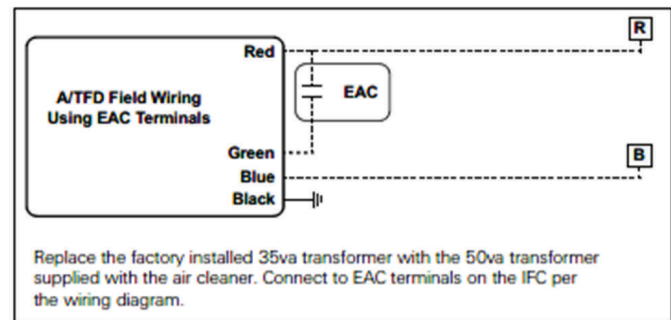
Field Wiring

Figure 2. Field wiring diagram for P0V0 with one / two stage AC or heat pump



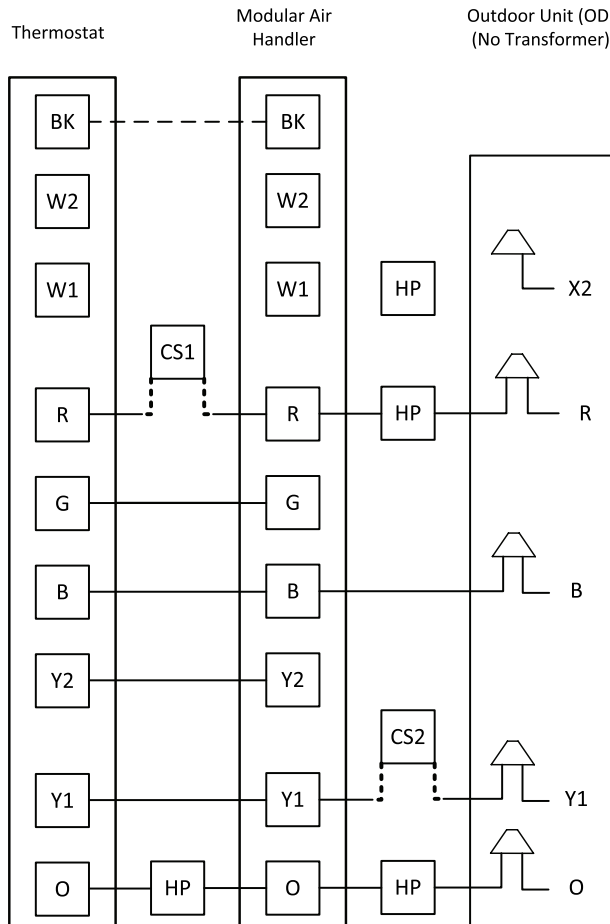
NOTES:

- 1) HP = Wiring used for Heat Pump System.
- 2) CS = wiring used for Condensate Switch (2 Options).
- 3) Y1 and/or Y2 must be connected from the thermostat to the IFC for proper airflow.
- 4) Remove Y1-O jumper for HP systems.
- 5) For PWM (BK) enabled thermostats, cut the BK jumper on the IFC and connect wiring.



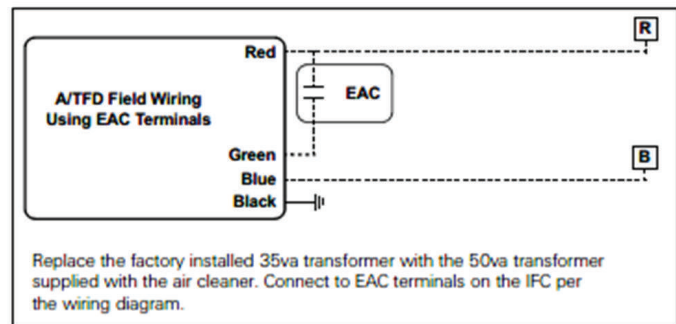
Electrical Connections

Figure 3. Field wiring diagram for P0V0 with single stage AC or heat pump with 2 stage airflow



NOTES:

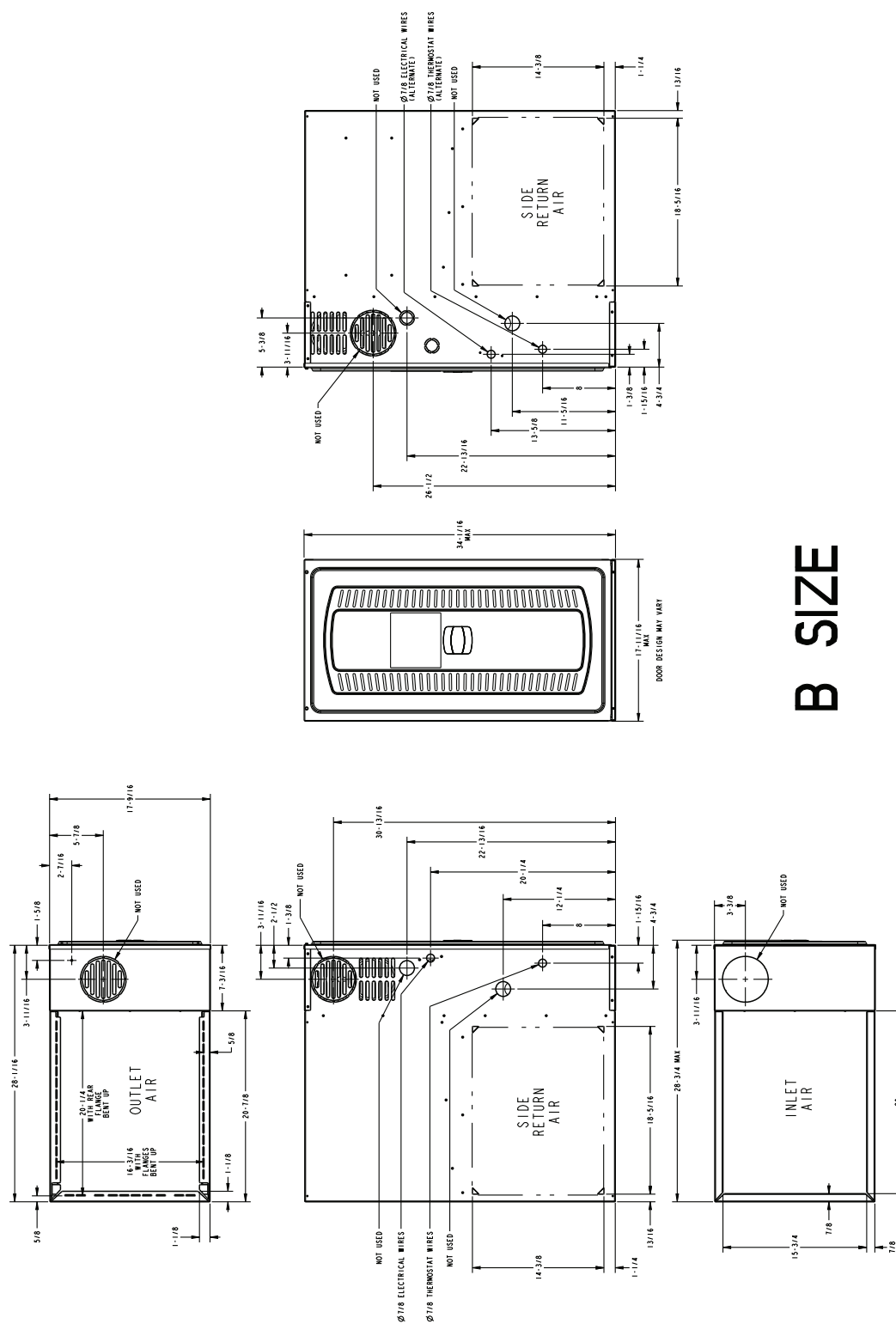
- 1) HP = Wiring used for Heat Pump System.
- 2) CS = wiring used for Condensate Switch (2 Options).
- 3) Y1 and Y2 must be connected from the thermostat to the IFC for proper airflow.
- 4) Thermostat must be setup for 2 stage OD.
- 5) IFC Must be setup for 2 stage OD using the Menu/Option Buttons.
- 6) Remove Y1-O jumper for HP systems.
- 7) For PWM (BK) enabled thermostats, cut the BK jumper on the IFC and connect wiring.



[illegible]

SIZE

Figure 5. 17.5-inch width cabinet



SIZE

Technical drawings of the C size unit, showing front, side, and top views with dimensions and labels.

Front View (Left): Shows the unit with dimensions: 28-11/16 (total height), 3-11/16 (top section height), 1-5/8 (top section width), 5-3/8 (middle section height), 9-1/4 (middle section width), 21-1/16 (bottom section height), 7-3/16 (bottom section width), 20-7/8 (total width), 5/8 (bottom section height), 1-1/8 (bottom section width), 19-11/16 (bottom section height), 70-1/8 (bottom section width), 1-1/8 (bottom section height), 5/8 (bottom section width). Labels include: OUTLET AIR, 70-1/8 FLANGE BENT UP, 19-11/16 FLANGE BENT UP, NOT USED.

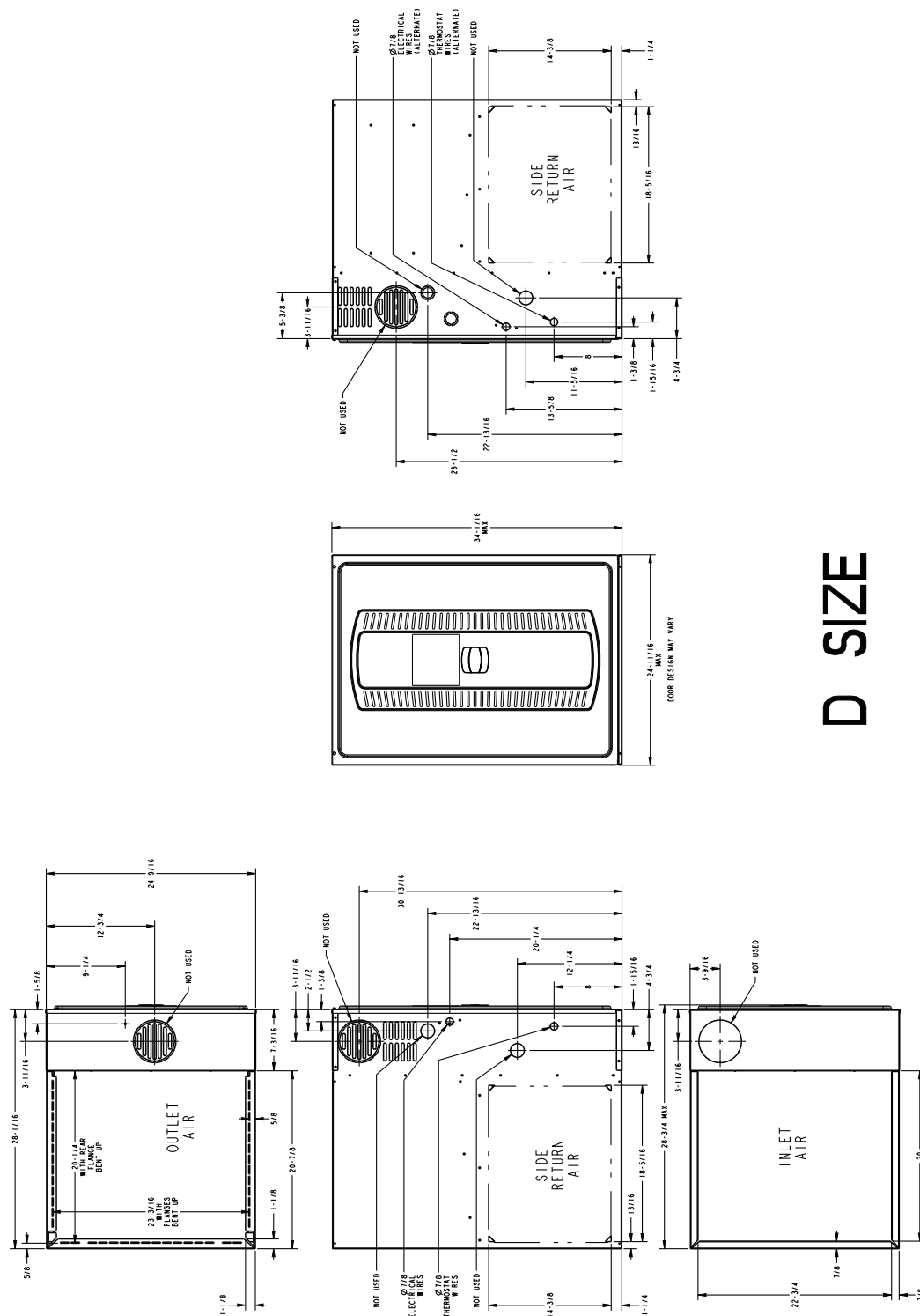
Side View (Right): Shows the unit with dimensions: 28-11/16 (total height), 3-11/16 (top section height), 1-5/8 (top section width), 5-3/8 (middle section height), 9-1/4 (middle section width), 21-1/16 (bottom section height), 7-3/16 (bottom section width), 20-7/8 (total width), 5/8 (bottom section height), 1-1/8 (bottom section width), 19-11/16 (bottom section height), 70-1/8 (bottom section width), 1-1/8 (bottom section height), 5/8 (bottom section width). Labels include: OUTLET AIR, 70-1/8 FLANGE BENT UP, 19-11/16 FLANGE BENT UP, NOT USED.

Top View (Bottom): Shows the unit with dimensions: 34-1/16 (total width), 21-3/16 (total height), 3-11/16 (top section height), 1-3/8 (top section width), 2-1/2 (top section height), 1-3/8 (top section width), 28-13/16 (total width), 22-13/16 (total height), 20-1/4 (total width), 12-1/4 (total height), 8 (total width), 1-15/16 (total height), 4-3/4 (total width), 1-1/4 (total height), 14-3/8 (total width), 13/16 (total height), 18-5/16 (total width), 1-1/4 (total height), 19-1/4 (total width), 7/8 (total height), 20-1/8 (total width). Labels include: SIDE RETURN AIR, 34-1/16 MAX, 21-3/16 MAX, DOOR DESIGN MAY VARY, NOT USED, Ø 7/8 ELECTRICAL WIRE (ALTERNATE), Ø 7/8 THERMOSTAT WIRE (ALTERNATE), NOT USED.

Bottom View (Top): Shows the unit with dimensions: 28-11/16 (total height), 3-11/16 (top section height), 1-5/8 (top section width), 5-3/8 (middle section height), 9-1/4 (middle section width), 21-1/16 (bottom section height), 7-3/16 (bottom section width), 20-7/8 (total width), 5/8 (bottom section height), 1-1/8 (bottom section width), 19-11/16 (bottom section height), 70-1/8 (bottom section width), 1-1/8 (bottom section height), 5/8 (bottom section width). Labels include: INLET AIR, 70-1/8 FLANGE BENT UP, 19-11/16 FLANGE BENT UP, NOT USED.

SIZE C

Figure 7. 24.5-inch width cabinet



SIZE



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