

## CLEARANCES

Clearances must be taken into consideration, and provided for as follows:

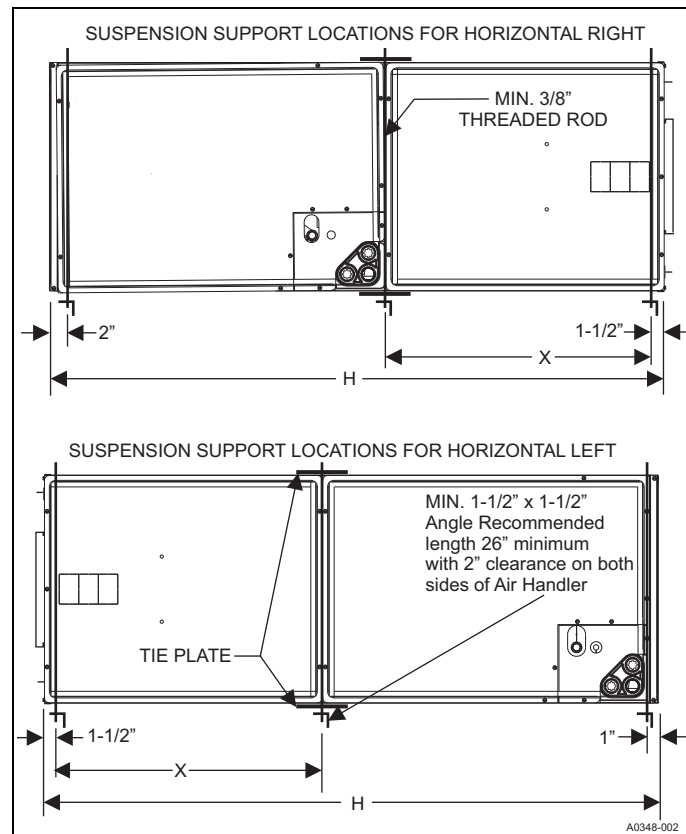
1. Refrigerant piping and connections - minimum 12" recommended.
2. Maintenance and servicing access - minimum 36" from front of unit recommended for blower motor / coil replacement.
3. Condensate drain lines routed to clear filter and panel access.
4. Filter removal - minimum 36" recommended.
5. The duct work connected to this unit is designed for zero clearance to combustible materials.
6. A combustible floor base accessory is available for downflow applications of this unit, if required by local code.

## HORIZONTAL SUSPENSION

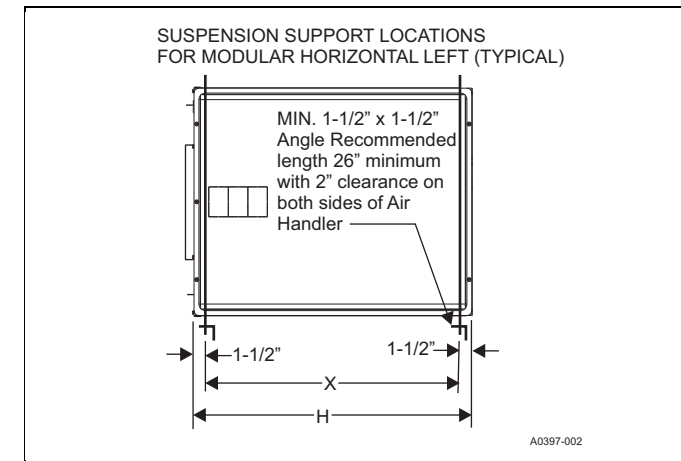
These air handlers may be suspended in horizontal applications. It is recommended to use angle steel support brackets with minimum 3/8" threaded rods, supporting the unit from the bottom. Attach the threaded rods at the locations shown in the Figure 5. Leave enough clearance between door and rod so that the door may be easily removed for service.

## NOTICE

When assembling the support structure, make sure to size to provide clearance for access door removal.



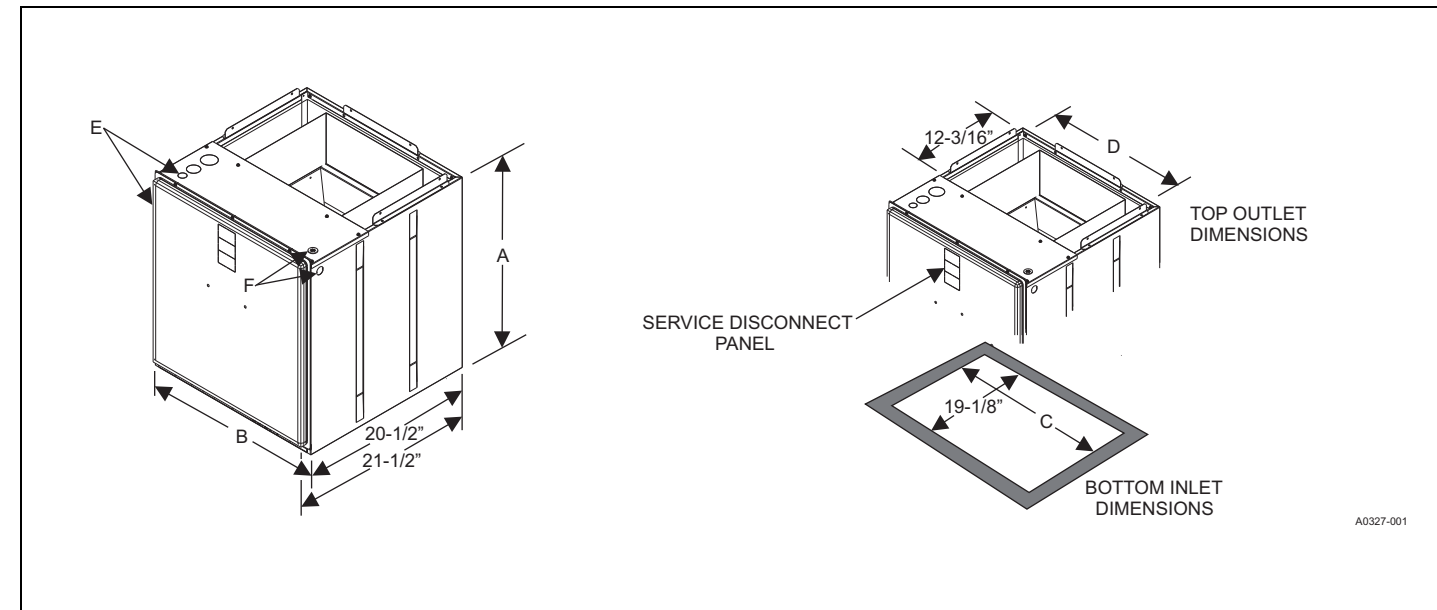
(Cabinet Width) Position	Dimensions	
	H	X
(17-1/2") Horizontal Left	40-1/2" – 47-1/2"	20"
(21" thru 24-1/2") Horizontal Left	43-1/2" – 55-1/2"	21"
(17-1/2") Horizontal Right	40-1/2" – 47-1/2"	20"
(21" thru 24-1/2") Horizontal Right	43-1/2" – 55-1/2"	21"



Air Handler Cabinet Size	Dimensions	
	H	X
MP08BN21	21-1/2"	18-1/2"
MP12BN21	22-1/2"	19-1/2"
MP14DN21		
MP16CN21		
MP20DN21		

# QUICK REFERENCE GUIDE MODULAR PSC MULTI-POSITION RESIDENTIAL AIR HANDLERS

This document does not replace the installation instructions, which must be referred to for detailed information.



## DIMENSIONS<sup>1</sup>

Models	Dimensions <sup>1</sup>				Wiring Knockouts <sup>2</sup>	
	A	B	C	D	E	F
	Height	Width			Power (Conduit)	Control (Conduit)
MP08BN21	21-1/2	17-1/2	16-1/2	16-1/2	7/8 (1/2) 1-3/8 (1) 1-23/32 (1-1/4)	7/8 (1/2)
MP12BN21	21-1/2	17-1/2	16-1/2	16-1/2		
MP14DN21	22-1/2	24-1/2	23-1/2	23-1/2		
MP16CN21	22-1/2	21	20	20		
MP20DN21	22-1/2	24-1/2	23-1/2	23-1/2		

1. All dimensions are in inches.
2. Knockout size (conduit size in parentheses).

## NOTE:

1. The controls may require correct polarity on the power supply and a proper ground.
2. These units are rated for use with single phase 230 or 208 volts supply power.
3. Use of flexible duct connectors are recommended.
4. Supply air duct work must remain the size of the supply opening for the first 12" before transition to correct duct size.
5. Return and supply duct may be fastened to the bottom or sides of the air handler using screws no longer than 1/2" in length.
6. Line voltage electrical knockouts are available on left top and left casing side. See installation instructions for information on proper sizing of over current protection and supply wire sizes.
7. Low voltage electrical knockouts are available on right top and right casing side.
8. Seal electrical openings and duct connections to prevent air infiltration.
9. If the air handler is used with an indoor coil and is to be installed above a finished ceiling, a secondary drain pan is recommended.
10. At start up, measure external duct static, and adjust blower speed accordingly.

**AIR FLOW DATA (CFM)<sup>1</sup>**

Models	CM Models	Blower Motor Speed	External Static Pressure (in. wc.)						
			0.10	0.20	0.30	0.40	0.50	0.60	0.70
<b>208 Volt</b>									
MP08B	CM18b	High	975	965	953	926	889	772	724
		Medium	729	719	700	643	614	540	354
		Low	576	561	501	455	407	289	209
	CM24B	High	950	944	927	907	876	838	742
		Medium	713	703	686	656	591	533	478
		Low	560	546	511	448	398	294	208
MP12B	CM30B	High	1459	1410	1342	1275	1200	1129	1022
		Medium	1241	1210	1156	1110	1044	1002	917
		Low	992	965	940	911	867	822	758
	CM36B	High	1487	1438	1383	1315	1245	1150	1073
		Medium	1226	1202	1166	1119	1079	1007	945
		Low	959	950	925	892	866	818	716
MP14D	CM30D	High	1944	1891	1832	1767	1693	1594	1303
		Medium	1518	1494	1470	1425	1377	1186	1071
		Low	1208	1198	1180	1155	1019	968	830
	CM36D	High	1967	1920	1848	1781	1710	1623	1532
		Medium	1520	1508	1486	1446	1398	1203	1101
		Low	1207	1202	1176	1156	1028	970	885
	CM42D	High	1949	1912	1854	1791	1715	1645	1358
		Medium	1538	1521	1492	1458	1406	1265	1144
		Low	1197	1190	1179	1128	1052	998	903
MP16C	CM36C	High	1776	1709	1646	1573	1491	1328	1171
		Medium	1591	1545	1486	1424	1300	1173	1066
		Low	1360	1331	1285	1194	1097	1027	941
	CM42C	High	1746	1687	1616	1536	1386	1265	1147
		Medium	1564	1507	1451	1388	1246	1148	998
		Low	1339	1301	1258	1136	1052	994	876
	CM48C	High	1817	1756	1678	1599	1511	1296	1120
		Medium	1673	1618	1542	1477	1349	1138	915
		Low	1448	1419	1362	1281	1136	1001	948
MP20D	CM42D	High	2035	1994	1922	1858	1781	1658	1562
		Medium	1849	1819	1771	1694	1650	1575	1364
		Low	1679	1654	1624	1578	1526	1339	1263
	CM48D	High	2061	2001	1937	1871	1780	1684	1570
		Medium	1867	1835	1786	1727	1653	1563	1328
		Low	1678	1657	1615	1572	1518	1441	1235
	CM60D	High	2021	1979	1897	1833	1751	1668	1521
		Medium	1852	1811	1758	1697	1639	1547	1389
		Low	1646	1630	1596	1555	1491	1384	1247
	CM64D	High	1867	1832	1784	1729	1652	1572	1462
		Medium	1498	1484	1443	1411	1361	1233	1138
		Low	1128	1122	1115	1096	1020	967	893

1. Air handler units have been tested to UL 1995 / CSA 22.2 standards up to 0.70" wc. external static pressure. Dry coil conditions only, tested without filters. For optimal performance, external static pressures of 0.2" to 0.5" are recommended. Applications above 0.5" are not recommended.

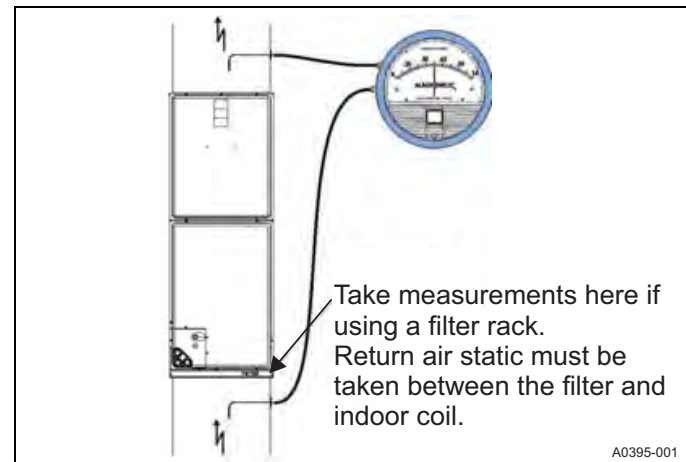
**AIR FLOW DATA (CFM)<sup>1</sup> (Continued)**

Models	CM Models	Blower Motor Speed	External Static Pressure (in. wc.)						
			0.10	0.20	0.30	0.40	0.50	0.60	0.70
<b>230 Volt</b>									
MP08B	CM18B	High	1142	1126	1093	1057	1009	953	852
		Medium	855	840	826	798	756	696	594
		Low	676	663	638	584	528	482	404
	CM24B	High	1105	1088	1060	1030	987	948	859
		Medium	825	815	802	780	752	678	591
		Low	655	636	616	569	504	467	345
MP12B	CM30B	High	1521	1471	1397	1322	1241	1161	1057
		Medium	1369	1329	1281	1224	1166	1092	1015
		Low	1130	1107	1071	1029	972	910	842
	CM36B	High	1557	1507	1440	1363	1289	1185	1125
		Medium	1351	1321	1266	1207	1153	1076	1019
		Low	1103	1083	1056	1024	976	928	851
MP14D	CM30D	High	2092	2038	1958	1884	1795	1714	1591
		Medium	1725	1697	1634	1598	1534	1454	1179
		Low	1374	1366	1339	1316	1250	1070	904
	CM36D	High	2099	2040	1980	1903	1814	1680	1605
		Medium	1725	1694	1652	1605	1541	1467	1182
		Low	1388	1372	1340	1306	1277	1106	1026
	CM42D	High	2083	2033	1960	1894	1820	1720	1459
		Medium	1690	1662	1623	1587	1534	1460	1233
		Low	1399	1393	1370	1338	1269	1159	1073
MP16C	CM36C	High	1850	1785	1705	1625	1541	1373	1242
		Medium	1693	1642	1574	1499	1378	1261	1145
		Low	1512	1465	1407	1324	1225	1101	1022
	CM42C	High	1815	1754	1680	1593	1472	1278	1206
		Medium	1670	1613	1554	1473	1311	1210	1082
		Low	1488	1445	1376	1259	1181	1056	979
	CM48C	High	1886	1818	1739	1646	1567	1348	1163
		Medium	1742	1683	1622	1538	1461	1237	1121
		Low	1563	1512	1455	1399	1234	1086	1019
MP20D	CM42D	High	2123	2076	2001	1926	1840	1744	1439
		Medium	1999	1959	1896	1821	1744	1651	1347
		Low	1851	1819	1768	1698	1626	1544	1269
	CM48D	High	2178	2107	2034	1953	1878	1775	1604
		Medium	2014	1965	1905	1843	1761	1660	1351
		Low	1867	1832	1779	1727	1661	1544	1280
	CM60D	High	2132	2052	1993	1899	1813	1733	1594
		Medium	1985	1941	1872	1798	1729	1648	1507
		Low	1848	1810	1758	1695	1627	1548	1355
	CM64D	High	2069	2011	1929	1848	1755	1651	1402
		Medium	1962	1902	1832	1758	1675	1558	1335
		Low	1833	1787	1734	1667	1581	1382	1269

1. Air handler units have been tested to UL 1995 / CSA 22.2 standards up to 0.70" wc. external static pressure. Dry coil conditions only, tested without filters. For optimal performance, external static pressures of 0.2" to 0.5" are recommended. Applications above 0.5" are not recommended.

**EXTERNAL DUCT STATIC**

Measure the supply air static pressure. Record this positive number. Measure the return air static pressure. Record this negative number. Treat the negative number as a positive, and add the two numbers together to determine the total external system static pressure. If a filter rack is installed on the return air end of the air handler or indoor coil section, make sure to measure the return air duct static between the filter and the indoor coil.



A0395-001

**ELECTRICAL HEAT: MINIMUM FAN SPEED (208V/230V SINGLE PHASE)**

Heater Kit Models <sup>1,2</sup>	Nom. kW @240V	Air Handler Models				
		MP08B	MP12B	MP14D	MP16C	MP20D
6HK(0,1)6500206	2.4kW	Low	Low	Low	Low	Low
6HK(0,1)6500506	4.8kW	Low	Low	Low	Low	Low
6HK(0,1)6500806	7.7kW	Low	Low	Low	Low	Low
6HK(0,1)6501006	9.6kW	Low	Low	Low	Low	Low
6HK(1,2)6501306	12.5kW	Med	Low	Low	Low	Low
6HK(1,2)6501506	14.4kW	—	Med	Low	Low	Low
6HK(1,2)6501806	17.3kW	—	Med	Low	Low	Low
6HK(1,2)6502006	19.2kW	—	Med	Med	High	Low

1. (0,1) - 0 = no service disconnect OR 1 = with service disconnect.  
2. (1,2) - 1 = with service disconnect, no breaker jumper bar OR 2 = with service disconnect & breaker jumper bar.