

CLEARANCES

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

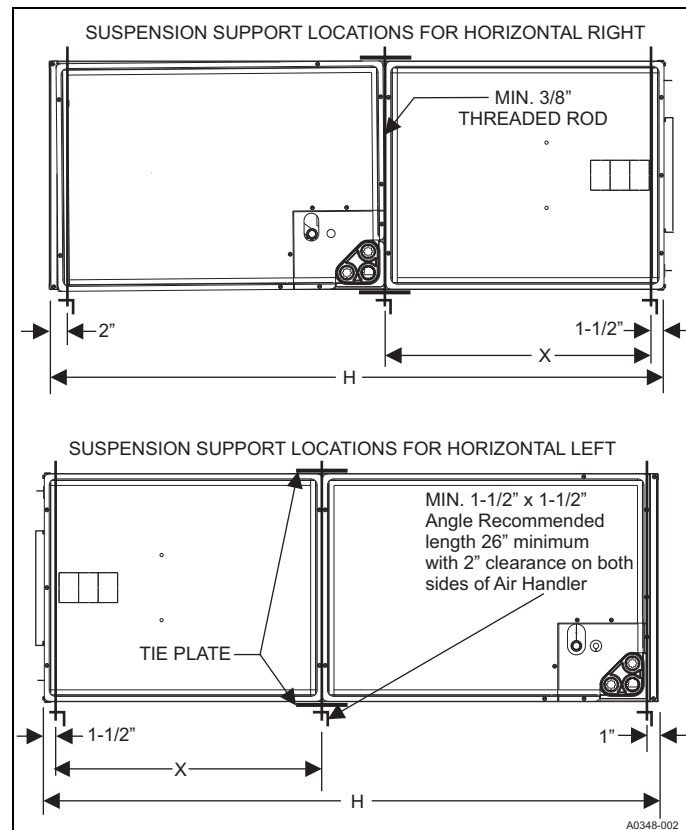
1. Refrigerant piping and connections - minimum 12" recommended.
2. Maintenance and servicing access - minimum 36" from front of unit recommended for blower motor / coil replacement.
3. Condensate drain lines routed to clear filter and panel access.
4. Filter removal - minimum 36" recommended.
5. The 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

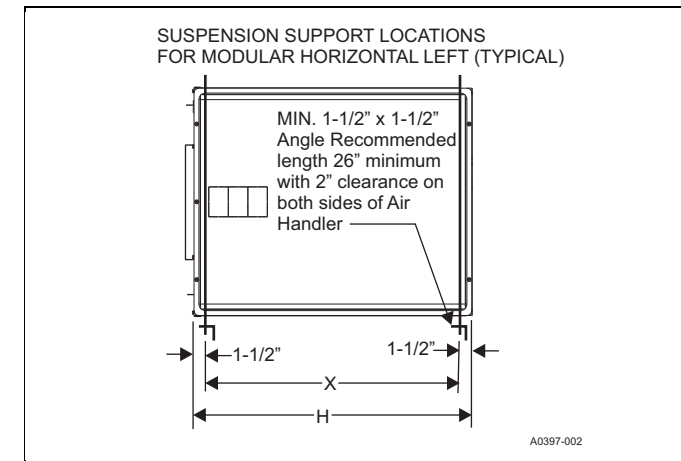
These air handlers may be suspended in horizontal applications. It is recommended to use angle steel support brackets with minimum 3/8" threaded rods, supporting the unit from the bottom. Attach the threaded rods at the locations shown in the Figure 5. Leave enough clearance between door and rod so that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

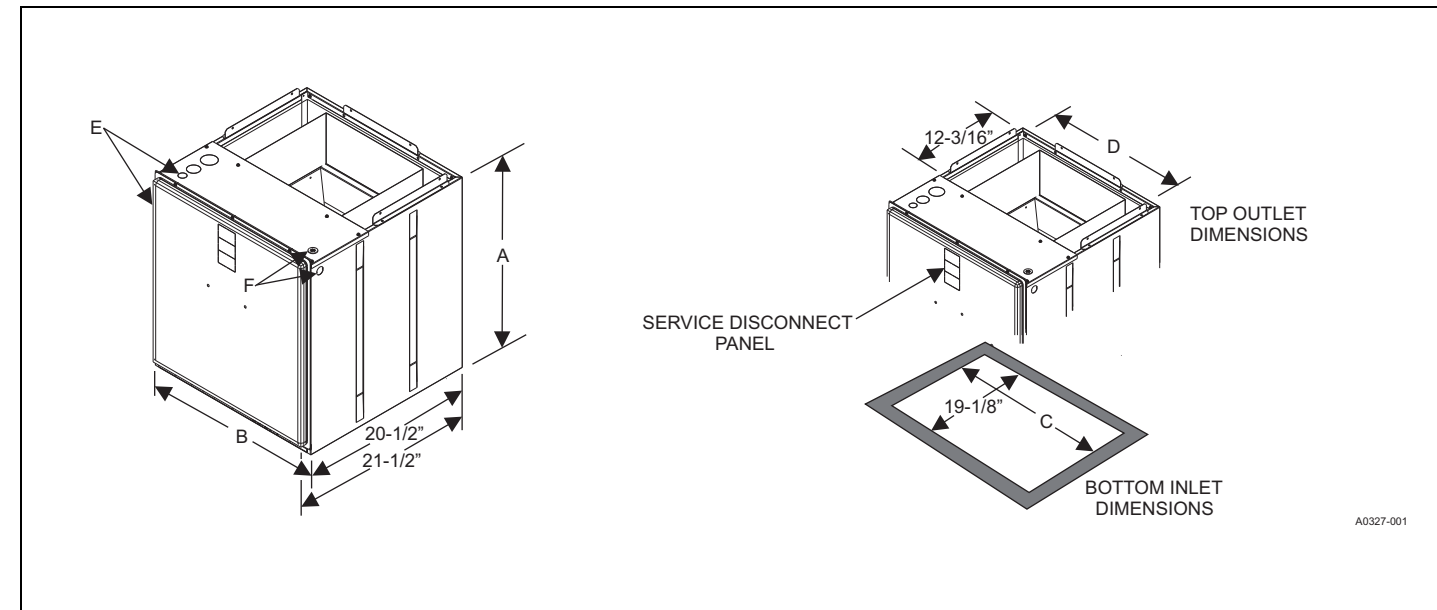


Air Handler Cabinet Size	Dimensions	
	H	X
ME08B	21-1/2"	18-1/2"
ME12B		
ME14D	22-1/2"	19-1/2"
ME16C		
ME20D		

QUICK REFERENCE GUIDE

MODULAR ECM MULTI-POSITION RESIDENTIAL AIR HANDLERS

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



DIMENSIONS¹

Models	Dimensions ¹				Wiring Knockout Dimensions ²	
	A	B	C	D	E	F
	Height	Width			Power (Conduit)	Control (Conduit)
ME08BN21	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)
ME12BN21	21-1/2	17-1/2	16-1/2	16-1/2		
ME14DN21	22-1/2	24-1/2	23-1/2	23-1/2		
ME16CN21	22-1/2	21	20	20		
ME20DN21	22-1/2	24-1/2	23-1/2	23-1/2		

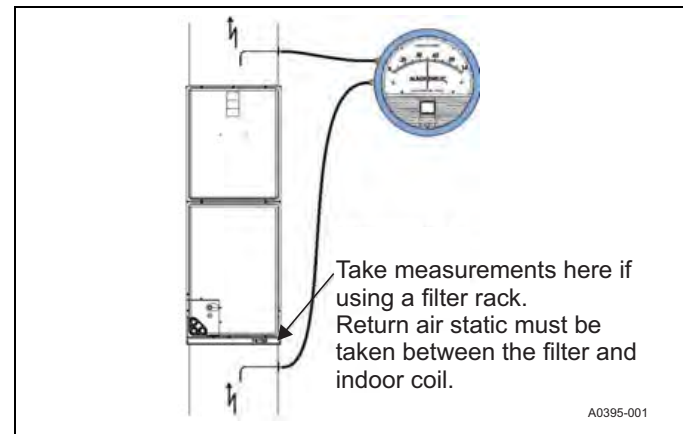
1. All dimensions are in inches.
2. Knockout size (conduit size in parentheses).

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.

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. This is total system static. If a filter rack is installed on the return air end of the air handler or indoor coil section, the return air duct static must be measured between the filter and the indoor coil.



AIR FLOW DATA (CFM)¹

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
ME08B	CM18B	#5 HI	939	893	871	837	804	767	714
		#4 MED-HI	833	803	765	737	697	639	587
		#3 MED	638	605	576	494	454	380	278
		#2 MED-LO	538	489	456	374	283	211	157
		#1 LO	478	446	367	272	211	150	23
	CM24B	#5 HI	923	892	862	833	797	743	688
		#4 MED-HI	846	816	786	750	710	638	599
		#3 MED	631	605	575	512	442	370	282
		#2 MED-LO	570	530	460	402	328	232	186
		#1 LO	477	448	372	292	203	157	24
	CM30B	#5 HI	937	905	877	841	798	748	704
		#4 MED-HI	846	808	778	733	667	636	572
		#3 MED	638	609	556	495	463	399	336
		#2 MED-LO	560	484	469	408	321	265	201
		#1 LO	481	448	390	328	252	166	92
ME12B	CM18B	#5 HI	1355	1334	1302	1270	1231	1201	1170
		#4 MED-HI	1273	1244	1213	1177	1142	1109	1073
		#3 MED	1074	1041	1009	974	936	894	809
		#2 MED-LO	862	826	798	766	688	607	587
		#1 LO	659	616	560	512	457	387	275
	CM24B	#5 HI	1359	1331	1301	1269	1234	1202	1171
		#4 MED-HI	1272	1245	1209	1174	1143	1106	1073
		#3 MED	1072	1040	1007	973	937	874	778
		#2 MED-LO	857	821	794	756	676	613	567
		#1 LO	654	606	557	504	443	379	271
	CM30B	#5 HI	1354	1325	1294	1263	1230	1198	1168
		#4 MED-HI	1268	1235	1203	1171	1139	1107	1075
		#3 MED	1069	1038	1003	974	935	876	781
		#2 MED-LO	859	818	794	756	681	620	563
		#1 LO	654	608	552	503	434	364	289
CM36B	#5 HI	1348	1317	1285	1254	1222	1189	1157	
	#4 MED-HI	1258	1225	1192	1160	1126	1093	1063	
	#3 MED	1062	1029	993	964	929	879	778	
	#2 MED-LO	860	822	791	761	682	616	568	
	#1 LO	642	599	554	502	431	367	294	
ME14D	CM30D	#5 HI	1583	1546	1516	1477	1435	1401	1364
		#4 MED-HI	1499	1456	1426	1393	1349	1306	1267
		#3 MED	1295	1247	1217	1181	1135	1080	1005
		#2 MED-LO	1099	1075	1026	983	909	840	786
		#1 LO	906	875	834	754	675	589	521
	CM36D	#5 HI	1604	1563	1524	1479	1450	1410	1374
		#4 MED-HI	1508	1464	1428	1384	1350	1308	1271
		#3 MED	1300	1250	1209	1175	1132	1075	1006
		#2 MED-LO	1102	1058	1028	986	909	838	784
		#1 LO	912	884	831	763	694	568	530
	CM42D	#5 HI	1544	1520	1482	1440	1411	1367	1321
		#4 MED-HI	1455	1426	1393	1349	1305	1272	1207
		#3 MED	1263	1238	1197	1157	1100	1033	980
		#2 MED-LO	1074	1037	993	946	877	810	729
		#1 LO	888	853	787	736	644	571	508

AIR FLOW DATA (CFM)¹ (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
ME16C	CM36C	#5 HI	1776	1735	1700	1657	1617	1577	1529
		#4 MED-HI	1701	1663	1621	1583	1538	1497	1453
		#3 MED	1522	1475	1442	1394	1349	1301	1245
		#2 MED-LO	1297	1250	1203	1151	1101	1050	957
		#1 LO	1112	1052	1002	951	854	816	756
	CM42C	#5 HI	1754	1719	1678	1644	1599	1562	1513
		#4 MED-HI	1676	1637	1599	1562	1517	1476	1423
		#3 MED	1495	1454	1411	1371	1328	1280	1233
		#2 MED-LO	1286	1235	1198	1143	1097	1036	992
		#1 LO	1119	1055	1006	948	900	804	752
	CM48C	#5 HI	1769	1727	1689	1650	1608	1568	1525
		#4 MED-HI	1692	1648	1605	1568	1525	1485	1440
		#3 MED	1554	1505	1461	1420	1373	1326	1273
		#2 MED-LO	1308	1256	1213	1164	1088	1007	941
		#1 LO	1116	1057	1007	955	839	792	741
CM60C	#5 HI	1794	1757	1720	1686	1639	1589	1545	
	#4 MED-HI	1700	1664	1624	1582	1543	1496	1443	
	#3 MED	1530	1484	1444	1402	1356	1314	1257	
	#2 MED-LO	1305	1257	1217	1162	1115	1060	993	
	#1 LO	1124	1060	1008	954	889	827	755	
ME20D	CM36D	#5 HI	2061	2021	1979	1938	1904	1865	1829
		#4 MED-HI	1998	1949	1914	1879	1835	1797	1756
		#3 MED	1769	1711	1677	1643	1603	1570	1530
		#2 MED-LO	1557	1508	1469	1439	1398	1355	1323
		#1 LO	1340	1291	1252	1216	1170	1132	1058
	CM42D	#5 HI	2032	1996	1959	1913	1890	1849	1820
		#4 MED-HI	1974	1938	1892	1855	1824	1785	1754
		#3 MED	1752	1706	1680	1633	1591	1546	1511
		#2 MED-LO	1545	1505	1468	1432	1393	1351	1307
		#1 LO	1340	1296	1260	1219	1169	1118	1055
	CM48D	#5 HI	2062	2024	1993	1952	1910	1868	1836
		#4 MED-HI	2006	1958	1932	1890	1850	1815	1770
		#3 MED	1785	1741	1698	1646	1610	1582	1538
		#2 MED-LO	1564	1521	1477	1443	1398	1362	1323
		#1 LO	1350	1305	1257	1226	1181	1112	1029
CM60D	#5 HI	1998	1959	1923	1888	1862	1826	1786	
	#4 MED-HI	1933	1887	1855	1811	1791	1757	1719	
	#3 MED	1703	1670	1633	1592	1567	1531	1485	
	#2 MED-LO	1522	1474	1447	1403	1370	1328	1281	
	#1 LO	1306	1260	1223	1190	1131	1078	1012	
CM64D	#5 HI	1940	1897	1868	1832	1806	1770	1728	
	#4 MED-HI	1883	1860	1829	1789	1761	1728	1688	
	#3 MED	1686	1648	1619	1584	1537	1508	1466	
	#2 MED-LO	1490	1446	1415	1385	1346	1298	1236	
	#1 LO	1279	1248	1206	1167	1113	1062	972	

1. Air handler units have been tested to UL 1995 / CSA 22.2 standards up to 0.50" 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.

Airflow data shown is from testing performed at 230V. ME units use a standard ECM constant torque motor, and there is minimal variation of airflow at other distribution voltage values. The above data can be used for airflow at other distribution voltages.

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

Heater Kit Models ^{1,2}	Nom. kW @240V	Air Handler Models				
		ME08B	ME12B	ME14D	ME16C	ME20D
6HK(0,1)6500206	2.4kW	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)
6HK(0,1)6500506	4.8kW	Med (#3)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)	Med Lo (#2)
6HK(0,1)6500806	7.7kW	Med Hi (#4)	Med Lo (#2)	Med (#3)	Med Lo (#2)	Med Lo (#2)
6HK(0,1)6501006	9.6kW	Med Hi (#4)	Med Lo (#2)	Med (#3)	Med Lo (#2)	Med Lo (#2)
6HK(1,2)6501306	12.5kW	Hi (#5)	Med Hi (#4)	Med (#3)	Med Lo (#2)	Med Lo (#2)
6HK(1,2)6501506	14.4kW	-	Hi (#5)	Med (#3)	Med Lo (#2)	Med Lo (#2)
6HK(1,2)6501806	17.3kW	-	Hi (#5)	Med Hi (#4)	Med (#3)	Med (#3)
6HK(1,2)6502006	19.2kW	-	Hi (#5)	-	Med Hi (#4)	Med (#3)
6HK(1,2)6502506	24kW	-	-	-	-	Med (#3)

1. (0,1) - 0 = no circuit breaker OR 1 = with circuit breaker.

2. (1,2) - 1 = with circuit breaker, no breaker jumper bar OR 2 = with circuit breaker & breaker jumper bar