

## Specification Guide

# Low Profile Multi-Position Air Handlers For Lennox



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## New Enhanced Features

- Brackets to hold coil assembly. When installing unit in horizontal position coil assembly won't move.
- Glued foil faced insulation, with cabinet flanges for better securing.
- Downflow kit available for field installation.
- Only four (4) screws to remove blower panel, making it easier to service.
- Separate door panels with flanges, sturdier design.
- Cabinet with flanges on all sides, adding cabinet rigidity. Much stronger unit. Improved air leakage.
- Additional wire strip, to better secure insulation when the blower is operating.
- Two independent panels, make it easy to clean coil. When refrigerant lines are installed, you still have access to the coil.

## Air Handler Features

- A1 models suitable for use with R-22 and R-410A.
- A2L models suitable for use with R-32 and R-454B
- A2L models include factory installed Refrigerant Detections System (RDS)
- Rifled Copper Tubing.
- Patented lance fin design.
- Ratings in conformity with AHRI Standard 210.
- ETL lab tested 2% or less cabinet air leakage for better efficiency.
- 120 V 60 Hz and 208/240 V 60 Hz supply voltages available.
- 5-speed high efficiency ECM motor available.
- 40 VA control voltage transformer.
- Dynamically balanced blowers for quiet vibration free operation.
- Dual 3/4" FPT condensate drains.
- Drain pans are molded of corrosion proof engineering polymer.
- Piston, or non-bleed HP-A/C expansion valve available factory installed. Expansion valves also available as a kit for field installation (all screw-on connections).
- All drain pans have Microban® protection, which inhibits the growth of mold and mildew that can cause odors and staining.
- Refrigerant connections are 3/8" ODF liquid and 3/4" ODF (18 & 24) or 7/8" ODF (25, 30, 31, 36 - 60) suction.
- Cabinet constructed of painted steel to prevent corrosion. Lined with high quality 5/8" foil faced insulation.
- Electrical connections can be made on top, right or left side.
- Electric heat available factory installed or in kit form for field installation. Plug in connections simplify installation of kits.
- Filter rack (no filter) - built into every air handler.
- Easy to follow wiring diagrams on all air handlers.
- Coils are air pressure tested at 500psi, leak tested with helium, sealed with rubber plugs, and then charged with dry air.
- Fan time delay factory installed.

## Physical Data

		Unit Size									
		18	24	25	30	31	36	37	42	48	60
<b>Available Voltage</b> <sup>[1]</sup>		208/240 V, 60 Hz, 1 ph or 120 V, 60 Hz, 1 ph.									
<b>Maximum Elec. Heat Available (kW)</b>		10	10	10	15	15	15	15	15	20	20
<b>Transformer Size and Type</b>		40 VA, Class 2									
<b>Blower Data:</b> 3-Speed PSC Motor (120V)	<b>Motor H. P.</b>	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/2	3/4	3/4
	<b>F. L. A. @ 120 V</b>	2.0	3.2	3.2	3.2	5.3	5.3	5.3	8.5	7.5	10.5
	<b>Wheel (dia x wid)</b>	9x6	9x6	9x6	9x6	9x6	10x8	9x6	10x8	10x8	10x10
<b>Blower Data:</b> 3-Speed PSC Motor (240V)	<b>Motor H. P.</b>	1/5	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/2	1/2
	<b>F. L. A. @ 240 V</b>	1.1	1.6	1.9	1.9	2.6	2.6	1.9	1.9	3.9	3.9
	<b>Wheel (dia x wid)</b>	9x6	9x6	10x8	10x8	12x8	10x8	12x8	12x8	11x10	11x10
<b>Blower Data:</b> 5-Speed High Eff. ECM Motor (120V)	<b>Motor H. P.</b>	1/3	1/3	1/2	1/2	1/2	1/2	1/2	1/2	3/4	1
	<b>F. L. A. @ 120 V</b>	3.9	3.9	5.8	5.8	5.8	5.8	5.8	5.8	8.7	11.1
	<b>Wheel (dia x wid)</b>	9x6	9x6	10x8	10x8	10x8	10x8	10x8	10x8	10x10	10x10
<b>Blower Data:</b> 5-Speed High Eff. ECM Motor (240V)	<b>Motor H. P.</b>	1/3	1/3	1/2	1/2	1/2	1/2	1/2	1/2	3/4	1
	<b>F. L. A. @ 240 V</b>	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.2	4.6
	<b>Wheel (dia x wid)</b>	9x6	9x6	10x8	10x8	10x8	10x8	10x8	10x8	10x10	10x10
<b>Nominal CFM</b>		600	800	800	1000	1000	1200	1200	1400	1600	2000
<b>Air Filter Size (in)</b>		12x20	12x20	16x20	16x20	18x25	16x20	18x25	18x25	18x25	18x25
<b>Sound Level @ 0.3 Static (dBA)</b> <sup>[2]</sup>		50	50	48	50	53	50	53	53	53	54
<b>Refrigerant Conn. (IDS) Suction (in)</b>		3/4	3/4	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8
<b>Refrigerant Conn. (IDS) Liquid (in)</b>		3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8
<b>R-22 Piston Size (in)</b> (for replacement only)		.053	.059	.059	.067	.067	.073	.073	.080	.084	.093
<b>R-410A Piston Size (in)</b>		.049	.053	.053	.059	.059	.067	.067	.073	.076	.093
<b>Approx. Weight lbs (base unit w/o heat)</b>		80	80	105	105	155	105	155	155	155	155

[1] 120 V, 60 Hz supply voltage cannot be used with electric heat.

[2] Typical sound levels based on 240V 3-speed PSC motor.

## Lennox A1 Refrigerants Upflow/Horizontal Low Profile Air Handler

<b>L</b>	<b>S</b>	<b>M</b>	<b>24</b>	<b>9</b>	<b>23E</b>	<b>S</b>	<b>05</b>	<b>2</b>	<b>A</b>																											
<b>SERIES</b> L = LENNOX						<b>Revision</b>																														
<b>BLOWER MOTOR TYPE</b> S = Constant speed (PSC) E = 5-speed ECM						<b>VOLTAGE (All include Time Delay)</b> 1 = 208/240 V, 60 Hz, 1 ph. (ECM only) 2 = 208/240 V, 60 Hz, 1 ph. (PSC only) 3 = 120 V, 60 Hz, 1 ph. (ECM only) <sup>[2]</sup> 4 = 120 V, 60 Hz, 1 ph. (PSC only) <sup>[2]</sup>																														
<b>AIRFLOW CONFIGURATION <sup>[1]</sup></b> M = Multiposition (upflow, left or right horizontal) V = Vertical (upflow/downflow)						<b>ELECTRIC HEAT</b>																														
<b>UNIT SIZE (NOMINAL MBTUH)</b> 18, 24, 25, 30, 31, 36, 37, 42, 48, 60						<b>AVAILABLE IN:</b> 00 = No Heat sizes 18-60 05 = 5 kW sizes 18-48 07 = 7.5 kW sizes 18-60 10 = 10 kW sizes 18-60 15 = 15 kW sizes 30-60 20 = 20 kW sizes 48-60																														
<b>Refrigerant Type &amp; Metering Device</b> 1 = Piston (R-410A) 9 = R-410A Non-bleed HP-A/C TXV						<b>LINE VOLTAGE CONNECTIONS</b>																														
<b>SLAB NUMBER</b>						<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th colspan="6">Amount of Heat (kW)</th> </tr> <tr> <th>0</th> <th>5</th> <th>7.5</th> <th>10</th> <th>15</th> <th>20</th> </tr> </thead> <tbody> <tr> <td>S = Stripped Wire</td> <td>#</td> <td>#</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>B = Circuit Breaker</td> <td></td> <td>O</td> <td>O</td> <td>O</td> <td>#</td> <td>#</td> </tr> </tbody> </table> <p style="text-align: center;"># = Standard      O = Optional</p>					Amount of Heat (kW)						0	5	7.5	10	15	20	S = Stripped Wire	#	#					B = Circuit Breaker		O	O	O	#	#
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B = Circuit Breaker		O	O	O	#	#																														

Notes:

[1] Downflow with optional field installed kit

[2] 120 V, 60 Hz supply voltage cannot be used with electric heat

## Lennox A2L Refrigerants Upflow/Horizontal Low Profile Air Handler

<b>L</b>	<b>S</b>	<b>M</b>	<b>24</b>	<b>A</b>	<b>23E</b>	<b>S</b>	<b>05</b>	<b>2</b>	<b>R</b>																											
<b>SERIES</b> L = LENNOX						<b>Refrigerant Detection System</b> R = Included (Factory Installed)																														
<b>BLOWER MOTOR TYPE</b> S = Constant speed (PSC) E = 5-speed ECM						<b>VOLTAGE (All include Time Delay)</b> 1 = 208/240 V, 60 Hz, 1 ph. (ECM only) 2 = 208/240 V, 60 Hz, 1 ph. (PSC only) 3 = 120 V, 60 Hz, 1 ph. (ECM only) <sup>[2]</sup> 4 = 120 V, 60 Hz, 1 ph. (PSC only) <sup>[2]</sup>																														
<b>AIRFLOW CONFIGURATION <sup>[1]</sup></b> M = Multiposition (upflow, left or right horizontal) V = Vertical (upflow/downflow)						<b>ELECTRIC HEAT</b>																														
<b>UNIT SIZE (NOMINAL MBTUH)</b> 18, 24, 25, 30, 31, 36, 37, 42, 48, 60						<b>AVAILABLE IN:</b> 00 = No Heat sizes 18-60 05 = 5 kW sizes 18-48 07 = 7.5 kW sizes 18-60 10 = 10 kW sizes 18-60 15 = 15 kW sizes 30-60 20 = 20 kW sizes 48-60																														
<b>Refrigerant Type &amp; Metering Device (Field Configurable)</b> 1 = Piston (R-454B & R32) A = R-454B Non-bleed HP-A/C TXV B = R-32 Non-bleed HP-A/C TXV						<b>LINE VOLTAGE CONNECTIONS</b>																														
<b>SLAB NUMBER</b> E = Copper, G = Aluminum						<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th colspan="6">Amount of Heat (kW)</th> </tr> <tr> <th>0</th> <th>5</th> <th>7.5</th> <th>10</th> <th>15</th> <th>20</th> </tr> </thead> <tbody> <tr> <td>S = Stripped Wire</td> <td>#</td> <td>#</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>B = Circuit Breaker</td> <td></td> <td>O</td> <td>O</td> <td>O</td> <td>#</td> <td>#</td> </tr> </tbody> </table> <p style="text-align: center;"># = Standard      O = Optional</p>					Amount of Heat (kW)						0	5	7.5	10	15	20	S = Stripped Wire	#	#					B = Circuit Breaker		O	O	O	#	#
	Amount of Heat (kW)																																			
	0	5	7.5	10	15	20																														
S = Stripped Wire	#	#																																		
B = Circuit Breaker		O	O	O	#	#																														

Notes:

[1] Downflow with optional field installed kit

[2] 120 V, 60 Hz supply voltage cannot be used with electric heat

## Blower Performance: 3-Speed PSC Motor

- All data is given while air handler is operating with a dry coil and air filter installed.
- Speeds marked **\*bold with asterisk** are the factory speed settings for both heating and cooling.
- Heating speeds should not be reduced below factory setting.
- Different speeds can be set for cooling mode; see installation instructions for changing cooling speeds.
- For downflow operation (with field installed kit), use the next highest speed setting available. If set to high speed from the factory, use high speed for downflow.

### 208/240 Volt 3-Speed PSC Motor

		Airflow (CFM) vs. External Static Pressure (inches W.C.)				
Size	Speed	0.10	0.20	0.30	0.40	0.50
18	Low	505	499	487	434	397
	<b>*Med</b>	653	634	625	600	512
	High	891	853	812	778	733
24	Low	663	624	583	578	562
	<b>*Med</b>	902	864	822	792	744
	High	1159	1097	1031	960	893
25	<b>*Low</b>	867	839	803	780	733
	Med	1044	1015	991	941	889
	High	1260	1234	1200	1149	1098
30	Low	867	839	803	780	733
	<b>*Med</b>	1044	1015	991	941	889
	High	1260	1234	1200	1149	1098
31	<b>*Low</b>	1143	1112	1081	1047	1015
	Med	1268	1233	1186	1165	1133
	High	1415	1390	1352	1314	1260
36	Low	1143	1112	1081	1047	1015
	<b>*Med</b>	1268	1233	1186	1165	1133
	High	1415	1390	1352	1314	1260
37	<b>*Low</b>	1318	1299	1270	1210	1147
	Med	1444	1409	1374	1294	1220
	High	1712	1645	1544	1453	1328
42	Low	1318	1299	1270	1210	1147
	<b>*Med</b>	1444	1409	1374	1294	1220
	High	1712	1645	1544	1453	1328
48 **	<b>*Low</b>	1764	1709	1652	1563	1418
	Med	1984	1884	1780	1683	1509
	High	2031	1959	1832	1725	1617
60	Low	1764	1709	1652	1563	1418
	Med	1984	1884	1780	1683	1509
	<b>*High</b>	2031	1959	1832	1725	1617

\*\* Use only low speed on heating for unit size 48 with 5kW electric heat.

### 120 Volt 3-Speed PSC Motor

		Airflow (CFM) vs. External Static Pressure (inches W.C.)				
Size	Speed	0.10	0.20	0.30	0.40	0.50
18	Low	431	424	425	403	385
	<b>*Med</b>	645	645	645	641	597
	High	804	804	804	793	765
24	Low	530	525	519	507	483
	<b>*Med</b>	925	915	875	823	736
	High	1189	1110	1016	917	826
25	<b>*Low</b>	998	956	905	844	770
	Med	1045	1004	962	871	785
	High	1089	1036	980	905	826
30	Low	998	956	905	844	770
	<b>*Med</b>	1045	1004	962	871	785
	High	1089	1036	980	905	826
31	Low	1008	1004	972	925	867
	<b>*Med</b>	1190	1150	1100	1040	970
	High	1250	1200	1140	1070	995
36	Low	945	930	912	869	793
	<b>*Med</b>	1150	1145	1123	1166	1004
	High	1291	1291	1285	1277	1200
37	Low	1008	1004	972	925	867
	<b>*Med</b>	1190	1150	1100	1040	970
	High	1250	1200	1140	1070	995
42	<b>*Low</b>	1393	1378	1366	1246	1167
	Med	1603	1592	1575	1540	1443
	High	1811	1811	1805	1744	1674
48	Low	1393	1378	1366	1246	1167
	<b>*Med</b>	1603	1592	1575	1540	1443
	High	1811	1811	1805	1744	1674
60	Low	1583	1583	1583	1567	1551
	<b>*Med</b>	1972	1972	1968	1882	1819
	High	2169	2146	2096	2004	1908

## Blower Performance: 5-Speed High Efficiency 120V ECM Motor

- All data is given while air handler is operating with a dry coil and air filter installed.
- Speeds marked **\*bold with asterisk** are the factory speed settings for both heating and cooling.
- Heating speeds should not be reduced below factory setting.
- Different speeds can be set for cooling mode; see installation instructions for changing cooling speeds.
- For downflow operation (with field installed kit):
  - If factory-set speed tap 3 is desirable for your application, use speed tap 5 for downflow.

		Airflow (CFM) vs. External Static					
Size	Tap	0.1	0.2	0.3	0.4	0.5	0.6
18	1	529	492	429	367	328	289
	2	603	563	526	469	417	380
	<b>*3</b>	757	725	701	668	639	586
	4	806	777	746	720	692	661
	5	849	826	798	768	745	720
25	1	613	575	538	487	432	395
	2	769	737	711	678	648	594
	<b>*3</b>	955	926	899	871	842	814
	4	989	962	938	912	891	865
	5	1046	1024	996	971	945	919
25	1	687	633	573	482	424	373
	2	830	794	757	708	636	570
	<b>*3</b>	971	948	913	882	840	802
	4	1012	988	960	922	889	849
	5	1057	1040	1011	979	943	909
30	1	765	720	667	602	521	474
	2	971	950	913	879	836	797
	<b>*3</b>	1163	1141	1116	1090	1054	1025
	4	1203	1189	1168	1139	1112	1078
	5	1222	1202	1188	1161	1128	1102
31	1	853	793	724	658	525	475
	2	1047	999	948	898	840	785
	<b>*3</b>	1230	1185	1142	1104	1054	1007
	4	1268	1231	1189	1147	1106	1053
	5	1316	1273	1237	1196	1152	1108
36	1	835	798	761	710	629	569
	2	1158	1137	1114	1088	1054	1024
	<b>*3</b>	1354	1327	1310	1290	1270	1239
	4	1418	1389	1369	1351	1327	1304
	5	1429	1412	1395	1379	1358	1330
37	1	908	851	794	730	632	535
	2	1232	1186	1142	1104	1054	1005
	<b>*3</b>	1432	1389	1346	1307	1272	1228
	4	1468	1426	1388	1350	1311	1275
	5	1504	1474	1438	1401	1363	1323
42	1	961	914	857	794	744	611
	2	1417	1377	1339	1299	1267	1223
	<b>*3</b>	1613	1574	1543	1508	1482	1447
	4	1669	1634	1600	1564	1530	1504
	5	1694	1665	1637	1603	1570	1537
48	1	1169	1106	1008	930	859	799
	2	1658	1615	1575	1532	1477	1409
	<b>*3</b>	1830	1792	1754	1737	1682	1622
	4	1863	1844	1809	1778	1740	1684
	5	1895	1855	1836	1805	1772	1714
60	1	1317	1298	1239	1162	1049	972
	2	1809	1752	1706	1707	1671	1619
	<b>*3</b>	1905	1851	1822	1784	1795	1756
	4	2013	1956	1908	1867	1890	1867
	5	2230	2171	2119	2072	2038	2048

# Blower Performance: 5-Speed High Efficiency 240V ECM Motor

- All data is given while air handler is operating with a dry coil and air filter installed.
- Speeds marked **\*bold with asterisk** are the factory speed settings for both heating and cooling.
- Heating speeds should not be reduced below factory setting.
- Different speeds can be set for cooling mode; see installation instructions for changing cooling speeds.
- For downflow operation (with field installed kit):
  - If factory-set speed tap 3 is desirable for your application, use speed tap 5 for downflow.
  - Use speed tap 5 in unit size 18 & 24 for heating operation (W1 & W2)

		Airflow (CFM) vs. External Static Pressure (inches W.C.)							
Size	Tap	0.10	0.20	0.30	0.35	0.40	0.45	0.50	0.60
18	1	492	448	393	361	361	333	307	273
	2	513	471	420	414	384	357	325	318
	<b>*3</b>	667	641	615	605	596	577	567	560
	4	705	673	665	648	630	621	603	590
	5	721	689	673	656	639	629	612	590
24, 25	1	732	627	590	581	571	545	536	525
	2	671	634	594	578	573	546	493	480
	<b>*3</b>	892	859	832	828	818	797	790	775
	4	911	866	839	832	825	818	804	760
	5	924	886	846	832	825	818	797	780
30, 31	1	871	830	778	722	671	635	625	586
	2	906	859	809	779	715	689	654	635
	<b>*3</b>	1085	1070	1048	1036	1024	1001	989	975
	4	1125	1103	1087	1059	1047	1024	1012	983
	5	1176	1146	1114	1098	1081	1059	1047	1029
36, 37	1	882	887	826	804	766	760	755	695
	2	1082	1037	1025	1002	990	959	921	881
	<b>*3</b>	1270	1250	1238	1228	1214	1189	1179	1162
	4	1290	1275	1265	1246	1236	1227	1212	1172
	5	1335	1315	1301	1287	1278	1259	1240	1225
42	1	1008	907	861	832	803	772	717	671
	2	1292	1243	1202	1192	1171	1149	1127	1070
	<b>*3</b>	1447	1430	1404	1377	1359	1340	1322	1283
	4	1534	1502	1476	1459	1433	1416	1398	1362
	5	1559	1519	1502	1477	1460	1434	1417	1381
48	1	1585	1494	1320	1252	1210	1151	1120	1088
	2	1510	1463	1414	1389	1363	1324	1256	1228
	<b>*3</b>	1675	1633	1579	1556	1545	1510	1487	1451
	4	1737	1697	1655	1633	1612	1590	1568	1545
	5	1781	1731	1679	1658	1637	1615	1593	1571
60	1	1394	1342	1288	1251	1172	1109	1077	1025
	2	1722	1666	1623	1594	1564	1534	1518	1471
	<b>*3</b>	2083	2048	2013	1990	1972	1947	1929	1885
	4	2179	2135	2101	2079	2056	2039	2021	1937
	5	2209	2166	2122	2101	2057	2058	2047	1956

## Electrical Data: 3 Speed PSC Motor

### No Electric Heat

Unit Size	Electric Heating Capacity		Blower Amps			Minimum Circuit Ampacity			Circuit Breaker Amps per Stage	
	kW <sup>[1]</sup>	BTUH	120 V	208 V	240 V	120 V	208 V	240 V	1	2
	240 V <sup>[2]</sup>	240 V <sup>[2]</sup>								
18	0	0	2.0	1.2	1.1	2.5	1.5	1.4	15	-
24	0	0	3.2	1.7	1.6	4.0	2.1	2.0	15	-
25, 30	0	0	3.2	2.0	1.9	4.0	2.5	2.4	15	-
31, 36	0	0	5.3	2.7	2.6	6.6	3.4	3.3	15	-
37, 42	0	0	8.5	2.0	1.9	10.6	2.5	2.4	15	-
48	0	0	7.5	4.1	3.9	9.4	5.1	4.9	15	-
60	0	0	10.5	4.1	3.9	13.1	5.1	4.9	15	-

Unit Size	Circuit	Total Heat Capacity	Electric Heating capacity		Blower Amps (A)		Minimum Circuit Ampacity (A)		Maximum Circuit Breaker size <sup>[3]</sup> (A)	
			kW <sup>[1]</sup>	BTUH	208 V	240 V	208 V	240 V	208 V	240 V
			240 V <sup>[2]</sup>	240 V <sup>[2]</sup>						
18	CKT 1	5	5	17061	1.2	1.1	24.1	27.4	25	30
	CKT 1	7.5	7.5	25591	1.2	1.1	35.4	40.4	40	45
	CKT 1	<b>10<sup>[4]</sup></b>	10	34121	1.2	1.1	46.6	53.5	50	60
24	CKT 1	5	5	17061	1.7	1.6	24.7	28.0	25	30
	CKT 1	7.5	7.5	25591	1.7	1.6	36.0	41.1	40	45
	CKT 1	<b>10<sup>[4]</sup></b>	10	34121	1.7	1.6	47.3	54.1	50	60
25	CKT 1	5	5	17061	2.0	1.9	25.1	28.4	30	30
	CKT 1	7.5	7.5	25591	2.0	1.9	36.4	41.4	40	45
	CKT 1	10	10	34121	2.0	1.9	47.6	54.5	50	60
30	CKT 1	5	5	17061	2.0	1.9	25.1	28.4	30	30
	CKT 1	7.5	7.5	25591	2.0	1.9	36.4	41.4	40	45
	CKT 1	10	10	34121	2.0	1.9	47.6	54.5	50	60
	CKT 1	<b>15<sup>[5]</sup></b>	10	34121	2.0	1.9	47.6	54.5	50	60
	CKT 2		5	17061	2.0	1.9	22.6	26.0	25	30
31, 36	CKT 1	5	5	17061	2.7	2.6	25.9	29.3	30	30
	CKT 1	7.5	7.5	25591	2.7	2.6	37.2	42.3	40	45
	CKT 1	10	10	34121	2.7	2.6	48.5	55.3	50	60
	CKT 1	<b>15<sup>[5]</sup></b>	10	34121	2.7	2.6	48.5	55.3	50	60
	CKT 2		5	17061	2.7	2.6	22.6	26.0	25	30
37, 42	CKT 1	5	5	17061	2.0	1.9	25.1	28.4	30	30
	CKT 1	7.5	7.5	25591	2.0	1.9	36.4	41.4	40	45
	CKT 1	10	10	34121	2.0	1.9	47.6	54.5	50	60
	CKT 1	<b>15</b>	10	34121	2.0	1.9	47.6	54.5	50	60
	CKT 2		5	17061	2.0	1.9	22.6	26.0	25	30
48	CKT 1	5	5	17061	4.1	3.9	27.7	30.9	30	35
	CKT 1	7.5	7.5	25591	4.1	3.9	39.0	43.9	40	45
	CKT 1	10	10	34121	4.1	3.9	50.3	57.0	60	60
	CKT 1	<b>15</b>	10	34121	4.1	3.9	50.3	57.0	60	60
	CKT 2		5	17061	4.1	3.9	22.6	26.0	25	30
	CKT 1	<b>20<sup>[6]</sup></b>	10	34121	4.1	3.9	50.3	57.0	60	60
	CKT 2		10	34121	4.1	3.9	45.1	52.1	50	60
60	CKT 1	7.5	7.5	25591	4.1	3.9	39.0	43.9	40	45
	CKT 1	10	10	34121	4.1	3.9	50.3	57.0	60	60
	CKT 1	<b>15</b>	10	34121	4.1	3.9	50.3	57.0	60	60
	CKT 2		5	17061	4.1	3.9	22.6	26.0	25	30
	CKT 1	<b>20<sup>[6]</sup></b>	10	34121	4.1	3.9	50.3	57.0	60	60
	CKT 2		10	34121	4.1	3.9	45.1	52.1	50	60

[1] kW packages in **bold italics** require and include circuit breakers; circuit breakers are optional for others.

[2] For 208 volt use 0.751 correction factor for kW & BTUH.

[3] Breaker supplied with heat kit may need to be changed. Verify breaker sizing based on min. circuit ampacity.

[4] 10 kW electric heat must not be used in downflow configuration

[5] 15 kW electric heat must be operated at high speed setting in downflow configuration

[6] 20 kW electric heat must be operated at medium speed setting in downflow configuration

[2] For 208 volt use 0.751 correction factor for kW & BTUH.

# Electrical Data: 5-Speed High Efficiency ECM Motor

## No Electric Heat

Unit Size	Electric Heating Capacity		Blower Amps			Minimum Circuit Ampacity			Circuit Breaker Amps per Stage	
	kW <sup>[1]</sup>	BTUH	120 V	208 V	240 V	120 V	208 V	240 V	1	2
	240 V <sup>[2]</sup>	240 V <sup>[2]</sup>								
18, 24	0	0	3.9	3.2	3.0	4.9	4.0	3.8	15.0	-
25	0	0	5.8	3.2	3.0	7.3	4.0	3.8	15.0	-
30, 31, 36, 37, 42	0	0	5.8	3.2	3.0	7.3	4.0	3.8	15.0	-
48	0	0	8.7	3.4	3.2	10.9	4.2	4.0	15.0	-
60	0	0	11.1	4.9	4.6	13.9	6.1	5.8	15.0	-

Unit Size	Circuit	Total Heat Capacity	Electric Heating capacity		Blower Amps (A)		Minimum Circuit Ampacity (A)		Maximum Circuit Breaker size <sup>[3]</sup> (A)	
			kW <sup>[1]</sup>	BTUH						
			240 V <sup>[2]</sup>	240 V <sup>[2]</sup>	208 V	240 V	208 V	240 V	208 V	240 V
18, 24, 25	CKT 1	5	5	17061	3.2	3.0	26.6	29.8	30	30
	CKT 1	7.5	7.5	25591	3.2	3.0	37.9	42.8	40	45
	CKT 1	<b>10<sup>[4]</sup></b>	10	34121	3.2	3.0	49.1	55.8	50	60
30, 31, 36, 37, 42	CKT 1	5	5	17061	3.2	3.0	26.6	29.8	30	30
	CKT 1	7.5	7.5	25591	3.2	3.0	37.9	42.8	40	45
	CKT 1	10	10	34121	3.2	3.0	49.1	55.8	50	60
	CKT 1	<b>15<sup>[5]</sup></b>	10	34121	3.2	3.0	49.1	55.8	50	60
	CKT 2		5	17061	3.2	3.0	22.6	26.0	25	30
48	CKT 1	5	5	17061	4.5	4.3	28.2	31.4	30	35
	CKT 1	7.5	7.5	25591	4.5	4.3	39.5	44.4	40	45
	CKT 1	10	10	34121	4.5	4.3	50.8	57.5	60	60
	CKT 1	15	10	34121	4.5	4.3	50.8	57.5	60	60
	CKT 2		5	17061	4.5	4.3	22.6	26.0	25	30
	CKT 1	<b>20<sup>[6]</sup></b>	10	34121	4.5	4.3	50.8	57.5	60	60
	CKT 2		10	34121	4.5	4.3	45.1	52.1	50	60
60	CKT 1	7.5	7.5	25591	4.9	4.6	40.0	44.8	40	45
	CKT 1	10	10	34121	4.9	4.6	51.3	57.8	60	60
	CKT 1	15	10	34121	4.9	4.6	51.3	57.8	60	60
	CKT 2		5	17061	4.9	4.6	22.6	26.0	25	30
	CKT 1	<b>20<sup>[6]</sup></b>	10	34121	4.9	4.6	51.3	57.8	60	60
	CKT 2		10	34121	4.9	4.6	45.1	52.1	50	60

[1] kW packages in **bold italics** require and include circuit breakers; circuit breakers are optional for others.

[2] For 208 volt use 0.751 correction factor for kW & BTUH.

[3] Breaker supplied with heat kit may need to be changed. Verify breaker sizing based on min. circuit ampacity.

[4] 10 kW electric heat must not be used in downflow configuration

[5] 15 kW electric heat must be operated at high speed setting in downflow configuration

[6] 20 kW electric heat must be operated at medium speed setting in downflow configuration

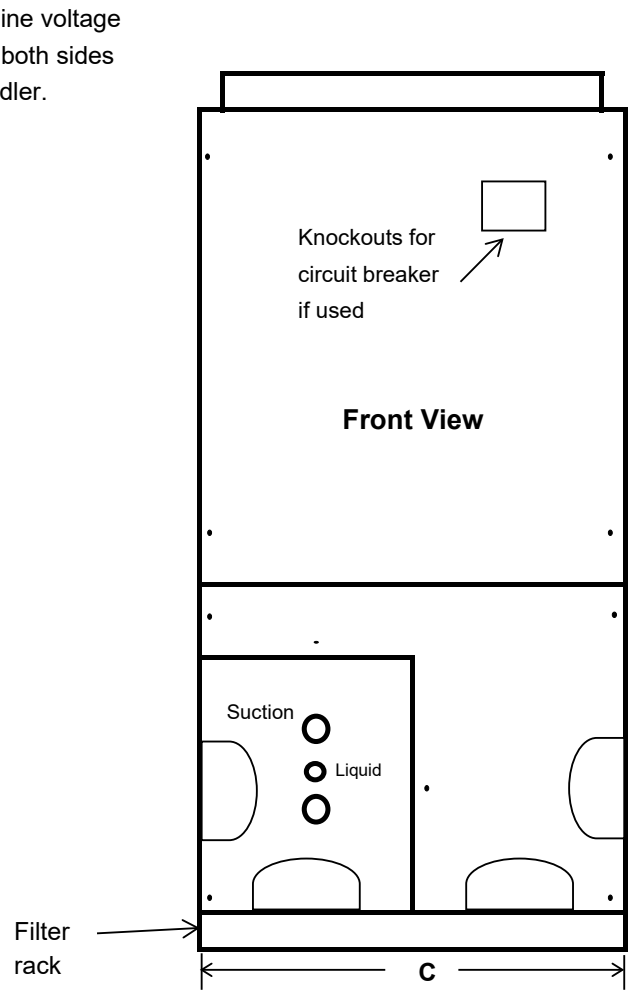
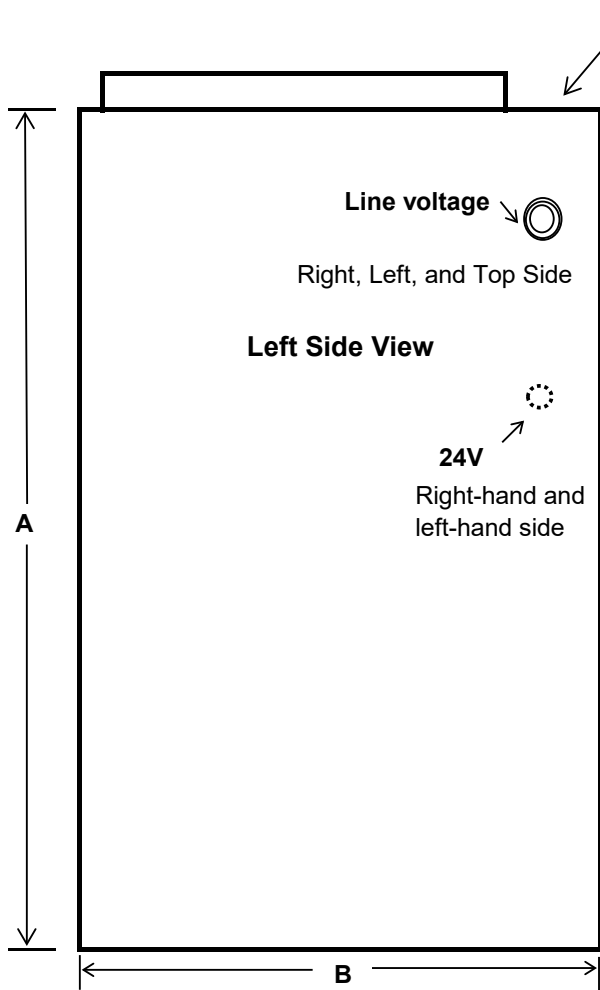
[2] For 208 volt use 0.751 correction factor for kW & BTUH.

[3] Listed circuit breaker size is for 240V applications. For 208V verify breaker sizing based on min. circuit ampacity.



# Dimensions

Air Handler Size	A (in)	B (in)	C (in)	Supply Duct Opening		Return Duct Opening	
				Depth (in)	Width (in)	Depth (in)	Width (in)
18, 24	36	22	15	17	13	20.35	12.20
25, 30, 36	41	22	18 1/2	17	16.5	20.35	16.20
31, 37, 42, 48, 60	48	26	21 7/8	21	20	24.60	20.08





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