

A801EK

PRODUCT SPECIFICATIONS

SINGLE STAGE HIGH EFFICIENCY CONSTANT TORQUE GAS FURNACE

FORM NO. A801EK-100 (04/2025)



CONTROLS

- Single stage gas valve
- Durable silicon nitride ignitor
- Self diagnostics saving last 10 fault codes regardless of power interruption
- Control features electronic air cleaner and humidifier terminals

VENTING

- Rotatable draft inducer for venting flexibility

INSTALLATION FEATURES

- Left or right utility connections
- Removable floor base (upflow / horizontal units) for bottom return air
- Zero step horizontal conversion

WARRANTY

10 year limited parts warranty / lifetime heat exchanger warranty available. See limited warranty document for details.

Note: Not For Sale in Canada

California Only

If installed in South Coast Air Quality Management District (SCAQMD) only: This furnace does not meet the SCAQMD Rule 1111 NOx emission limit (14 ng/J), and thus is subject to a mitigation fee of up to \$450. This furnace is not eligible for the Clean Air Furnace Rebate Program: www.CleanAirFurnaceRebate.com.

If installed in San Joaquin Valley Air Pollution Control District (SJVAPCD) only: This furnace does not meet the SJVAPCD Rule 4905 NOx emission limit (14 ng/J), and thus is subject to a mitigation fee of up to \$450.

CONFIGURATIONS

- Upflow / Horizontal
- Downflow

HEAT EXCHANGER DESIGN

- Aluminized steel crimped non-welded clamshell heat exchanger

BURNER

- Aluminized steel inshot burners for smooth ignition

CABINET DESIGN

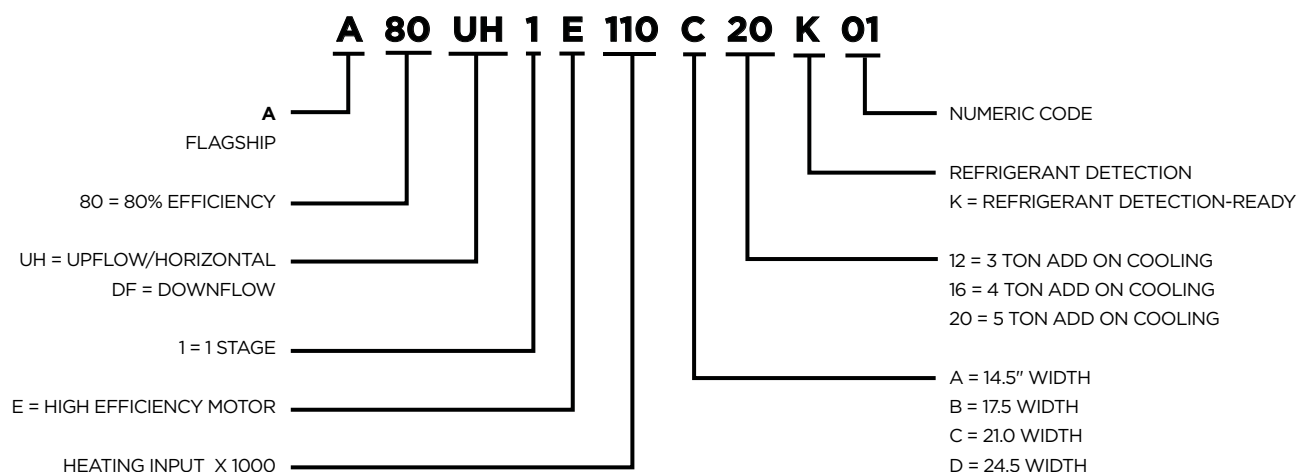
- Compact 33" height
- Standardized widths for easy coil fit

AIR DELIVERY SYSTEM

- Multi-speed high efficiency (constant torque) blower motor
- Easily removable slide out blower design
- Enhanced cooling SEER ratings when applied with properly matched cooling equipment



MODEL NUMBER GUIDE



PHYSICAL AND ELECTRICAL DATA

	Model	Input (Btuh)	Output (Btuh)	AFUE (ICS)	Nom. Cooling Capacity	Gas Inlet (in.)	Volts/Hz/Phase	Max. Time Delay Breaker or Fuse	Nominal F.L.A.	Trans. (V.A.)	Approx. Shipping Weight (lbs.)
Upflow / Horizontal	A80UH1E045A12K	44,000	36,000	80.00%	1-1/2 — 3	1/2	120-60-1	15	6.8	40	111
	A80UH1E070A12K	66,000	53,000	80.00%	1-1/2 — 3	1/2	120-60-1	15	6.8	40	111
	A80UH1E070B12K	66,000	53,000	80.00%	1-1/2 — 3	1/2	120-60-1	15	6.8	40	127
	A80UH1E090B16K	88,000	72,000	80.00%	2-1/2 — 4	1/2	120-60-1	15	8.4	40	142
	A80UH1E090C20K	88,000	72,000	80.00%	3 — 5	1/2	120-60-1	15	10.9	40	152
	A80UH1E110C20K	110,000	90,000	80.00%	4 — 5	1/2	120-60-1	15	10.9	40	160
	A80UH1E135D20K	132,000	107,000	80.00%	4 — 5	1/2	120-60-1	15	10.9	40	178
Downflow	A80DF1E045A12K	44,000	36,000	80.00%	2 — 3	1/2	120-60-1	15	6.8	40	113
	A80DF1E070A12K	66,000	54,000	80.00%	2 — 3	1/2	120-60-1	15	6.8	40	119
	A80DF1E070B12K	66,000	54,000	80.00%	2 — 3	1/2	120-60-1	15	6.8	40	128
	A80DF1E090B16K	88,000	72,000	80.00%	3 — 4	1/2	120-60-1	15	8.4	40	140
	A80DF1E110C20K	110,000	90,000	80.00%	4 — 5	1/2	120-60-1	15	10.9	40	160

Note: For vent sizing and clearances to combustibles, please reference installation instructions.

BLOWER PERFORMANCE DATA

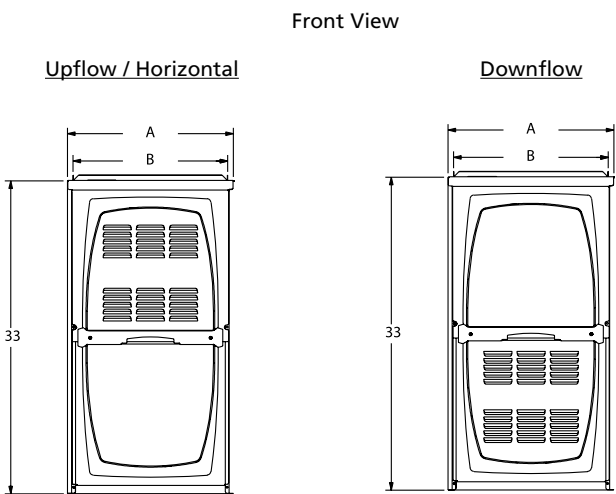
	Model	Motor Size (hp)	Blower Size	Temp Rise (°F)	Blower Speed	CFM @ External Static Pressure - " w.c.									
						0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Upflow / Horizontal	A80UH1E045A12K	1/2	10 x 8	15 - 45	High	1383	1346	1308	1268	1257	1211	1185	1140	1115	1074
					Med/High	1179	1132	1083	1057	1013	985	937	902	866	823
					Med	991	943	896	864	818	775	728	688	641	598
					Med/Low	970	854	797	748	697	651	605	554	512	446
					Low	959	764	668	612	562	508	456	385	N/A	N/A
	A80UH1E070A12K	1/2	10 x 10	40 - 70	High	1372	1340	1309	1281	1253	1225	1196	1158	1122	1090
					Med/High	1160	1125	1092	1059	1026	992	958	924	890	849
					Med	1073	1035	999	964	927	891	854	817	781	746
					Med/Low	1040	1002	965	929	891	855	818	780	742	707
					Low	880	836	794	752	709	666	622	582	544	504
	A80UH1E070B12K	1/2	10 x 10	40 - 70	High	1493	1433	1395	1353	1312	1270	1232	1187	1144	1067
					Med/High	1256	1221	1151	1094	1047	995	943	895	858	809
					Med	1166	1116	1067	1008	951	901	856	804	754	703
					Med/Low	1139	1078	1027	975	923	875	824	774	720	669
					Low	978	903	849	786	726	667	604	543	492	447
	A80UH1E090B16K	3/4	10 x 10	35 - 65	High	1740	1697	1655	1624	1581	1545	1513	1472	1421	1296
					Med/High	1528	1479	1437	1405	1376	1319	1277	1246	1197	1153
					Med	1404	1360	1329	1268	1234	1197	1150	1097	1051	1010
					Med/Low	1348	1302	1262	1215	1175	1119	1069	1025	983	935
					Low	1205	1147	1097	1043	996	944	889	845	781	723
	A80UH1E090C20K	1	11-1/2 x 10	30 - 60	High	2179	2141	2102	2065	2029	1991	1952	1912	1876	1842
					Med/High	1917	1874	1831	1790	1749	1708	1667	1623	1582	1543
					Med	1725	1679	1636	1591	1546	1500	1455	1408	1366	1320
					Med/Low	1565	1515	1468	1420	1371	1320	1271	1224	1176	1128
					Low	1422	1370	1321	1265	1208	1158	1107	1052	1003	947
	A80UH1E110C20K	1	11-1/2 x 10	35 - 65	High	2147	2129	2087	2065	2013	1995	1942	1913	1877	1797
					Med/High	1917	1857	1822	1787	1743	1701	1651	1617	1570	1545
					Med	1697	1632	1594	1542	1498	1452	1409	1358	1304	1263
					Med/Low	1550	1501	1436	1401	1343	1294	1243	1193	1158	1090
					Low	1367	1309	1263	1203	1150	1088	1039	974	N/A	N/A
	A80UH1E135D20K	1	11 x 11	30 - 60	High	2441	2384	2336	2269	2211	2186	2107	1979	1817	1576
					Med/High	2249	2200	2137	2069	2021	1966	1881	1826	1735	1525
					Med	2036	1978	1895	1837	1771	1710	1633	1598	1512	1401
					Med/Low	1826	1739	1662	1585	1517	1437	1429	1355	1224	1124
					Low	1647	1569	1507	1430	1346	1271	1201	1091	1000	927

BLOWER PERFORMANCE DATA - DOWNFLOW

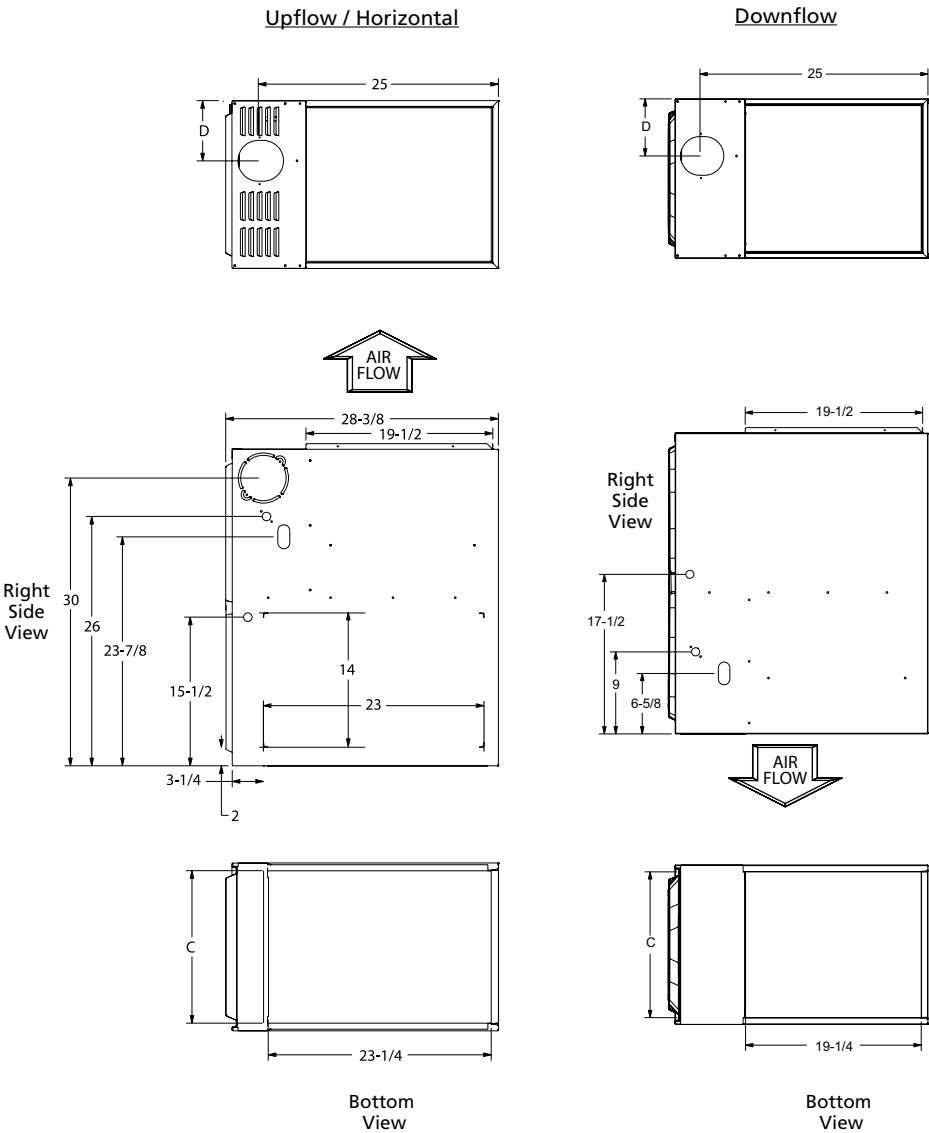
	Model	Motor Size (hp)	Blower Size	Temp Rise (°F)	Blower Speed	CFM @ External Static Pressure - " w.c.									
						0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Downflow	A80DF1E045A12K	1/2	10 x 8	15 - 45	High	1347	1310	1278	1259	1210	1183	1155	1085	992	879
					Med/High	1137	1110	1066	1027	995	941	902	873	831	796
					Med	947	924	878	831	785	742	702	654	615	574
					Med/Low	880	818	771	713	669	615	570	522	478	437
					Low	787	707	645	587	530	478	430	384	N/A	N/A
	A80DF1E070A12K	1/2	10 x 10	30 - 60	High	1444	1403	1373	1350	1321	1279	1250	1214	1131	1029
					Med/High	1262	1227	1186	1151	1117	1082	1049	1018	966	930
					Med	1162	1121	1078	1045	1012	969	937	898	862	825
					Med/Low	1144	1112	1064	1034	992	948	914	872	840	798
					Low	986	939	894	861	816	773	730	682	639	595
	A80DF1E070B12K	1/2	10 x 10	30 - 60	High	1526	1480	1434	1388	1353	1309	1237	1123	969	753
					Med/High	1291	1241	1194	1163	1095	1046	1000	947	888	700
					Med	1202	1156	1089	1040	986	928	878	816	723	635
					Med/Low	1166	1117	1059	1003	951	900	842	750	673	609
					Low	1003	928	860	804	736	642	567	488	444	N/A
	A80DF1E090B16K	3/4	10 x 10	30 - 60	High	1711	1668	1643	1601	1559	1527	1486	1456	1407	1277
					Med/High	1499	1451	1421	1389	1352	1312	1265	1236	1195	1152
					Med	1372	1336	1307	1261	1215	1181	1139	1096	1055	1005
					Med/Low	1328	1281	1240	1198	1152	1113	1062	1024	982	940
					Low	1183	1132	1077	1036	984	934	887	843	778	716
	A80DF1E110C20K	1	11-1/2 x 10	30 - 60	High	2335	2276	2243	2183	2164	2120	2083	2032	2008	1962
					Med/High	2049	2007	1971	1917	1864	1818	1777	1728	1690	1634
					Med	1798	1767	1709	1654	1598	1561	1496	1450	1395	1345
					Med/Low	1664	1603	1563	1500	1439	1391	1333	1272	1211	1150
					Low	1476	1410	1347	1280	1222	1153	1100	1022	928	863

DIMENSIONS

	Model	A	B	C	D
Upflow/Horizontal	A80UH1E045A12K	14-1/2	13-3/8	13	4-3/4
	A80UH1E070A12K	14-1/2	13-3/8	13	4-3/4
	A80UH1E070B12K	17-1/2	16-3/8	16	6-1/4
	A80UH1E090B16K	17-1/2	16-3/8	16	6-1/4
	A80UH1E090C20K	21	19-3/8	19-1/2	8
	A80UH1E110C20K	21	19-3/8	19-1/2	8
Downflow	A80DF1E045A12K	14-1/2	13-3/8	13	4-3/4
	A80DF1E070A12K	14-1/2	13-3/8	13	4-3/4
	A80DF1E070B12K	17-1/2	16-3/8	16	6-1/4
	A80DF1E090B16K	17-1/2	16-3/8	16	6-1/4
	A80DF1E110C20K	21	19-7/8	19-1/2	8



Top View



ACCESSORY LIST

CATALOG NUMBER	DESCRIPTION
External Filter Rack kits	
1.841018	1 Pack (16x25)
1.841039	10 Pack (16x25)
Natural to LP Kits	
11K50	1-Stage - 80
11K45	High Altitude (>7500')
Return Air Base	
68W61	14.5", A Width
68W62	17.5", B Width
68W63	21.0", C Width
68W64	24.5", D Width
Downflow Combustible Flooring Base	
11M59	14.5", A Width
11M60	17.5", B Width
11M61	21.0", C Width
Horizontal Suspension Kits	
51W10	80 & 90% Kit
2-Stage Compressor Relay Kit	
85W66	Blower Relay Kit
Transformer (75VA)	
27J32	Recommended when furnace is used with zoning or defrost thermostats and other 24V accessories requiring a higher VA rating
	Circuit breaker (furnished) is wired in series
	Replaces the standard 40VA transformer

Note: For vent length and clearances to combustibles, please reference installation instructions.



1-800-448-5872

All specifications and illustrations subject to change without notice and without incurring obligations.