

80G2E(L)K

PRODUCT SPECIFICATIONS

80% TWO-STAGE CONSTANT TORQUE GAS FURNACES

FORM NO. 80G2E(L)K-100 (07/2025)



CONFIGURATIONS

- Upflow / Horizontal
- Downflow

HEAT EXCHANGER DESIGN

- Aluminized steel primary heat exchanger with crimped non-welded construction

BURNERS

- Aluminized steel in shot burners for smooth ignition

CABINET CONSTRUCTION

- Compact 33" height
- Standardized widths for easy coil fit
- Heat exchanger compartment is insulated to increase efficiency and reduce sound levels
- Baked on prepainted steel cabinet finish

CONSTANT TORQUE ECM

- Efficient blower motor
- Easily removable slide-out blower design
- Dynamically balanced blower wheel with resilient motor mounts for smooth and quiet operation

CONTROLS

- Two stage gas valve
- Integrated ignition and fan control
- Self diagnostics saving last 10 fault codes regardless of power interruption
- Hot surface ignition system uses silicon nitride ignitor
- Control features 120 volt electronic air cleaner and humidifier terminals
- Control circuit is fuse protected
- Color coded control wiring
- Compatible with single or two stage thermostats for heating. Two stage thermostat is recommended when installed with two stage cooling unit.

VENTING

- 2-speed induced draft motor with stainless steel shaft, steel ball bearings, and fan cooled for long life

INSTALLATION FEATURES

- Left or right gas and electric entry
- Zero step horizontal conversion
- Removable floor base (upflow/horizontal units) for bottom return air

WARRANTY

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

California Only

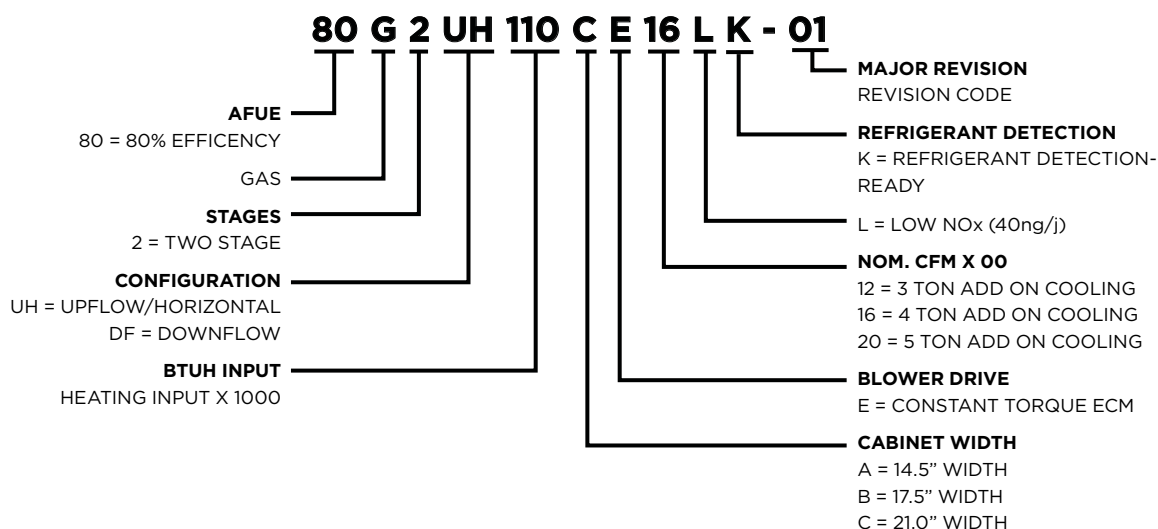
*If installed in South Coast Air Quality Management District (SCAQMD) only:
This furnace is not eligible for the Clean Air Furnace Rebate Program: www.CleanAirFurnaceRebate.com.*

This furnace does not meet the SCAQMD Rule 1111 NOx emission limit (14 ng/J).

*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).*



MODEL NUMBER GUIDE



PHYSICAL AND ELECTRICAL DATA

	Model	High Fire		Low Fire		AFUE (ICUS)	Nom. Cooling Capacity (tons)	Gas Inlet (in.)	Volts/Hz/Phase	Max. Overcurrent Protection	Nominal F.L.A.	Trans. (V.A.)	Motor Output (hp)	Approx. Weight (lbs.)
		Input (Btuh)	Output (Btuh)	Input (Btuh)	Output (Btuh)									
UPFLOW / HORIZONTAL	80G2UH045AE12K	44,000	35,000	29,000	23,000	80.0	3	1/2	120-60-1	15	6.1	40	1/2	111
	80G2UH070AE12K 80G2UH070AE12LK	66,000	54,000	43,000	35,000	80.0	3	1/2	120-60-1	15	6.1	40	1/2	121
	80G2UH090BE12K	88,000	71,000	57,000	47,000	80.0	3	1/2	120-60-1	15	6.1	40	1/2	136
	80G2UH090BE16K 80G2UH090BE16LK	88,000	72,000	57,000	46,000	80.0	4	1/2	120-60-1	15	8.2	40	3/4	140
	80G2UH110CE16K	110,000	89,000	72,000	58,000	80.0	4	1/2	120-60-1	15	8.2	40	3/4	152
	80G2UH110CE20K 80G2UH110CE20LK	110,000	88,000	72,000	59,000	80.0	5	1/2	120-60-1	15	10.0	40	1	156
DOWNFLOW	80G2DF070AE12K	66,000	52,000	43,000	35,000	80.0	3	1/2	120-60-1	15	6.1	40	1/2	123
	80G2DF090BE16K	88,000	69,000	57,000	46,000	80.0	4	1/2	120-60-1	15	8.2	40	3/4	142

Note: For vent length and clearances to combustibles, please reference installation instructions.
 Note: Filters and provisions for mounting are not furnished and must be field provided.

BLOWER PERFORMANCE DATA - UPFLOW / HORIZONTAL**80G2UH045AE12K**

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds									
	High (Black)		Medium-High (Brown)		Medium (Blue)		Medium-Low (Yellow)		Low (Red)	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
0.10	1436	310	1199	175	1022	113	875	79	875	82
0.20	1431	315	1166	183	987	120	747	68	714	62
0.30	1413	324	1138	192	938	129	696	76	514	49
0.40	1378	337	1104	199	905	137	640	81	448	55
0.50	1350	345	1070	206	858	146	588	87	367	60
0.60	1321	357	1031	215	824	152	533	93	311	65
0.70	1292	366	993	226	773	159	488	98	272	69
0.80	1267	378	969	233	737	165	426	104	232	73
0.90	1239	385	926	243	691	173	382	108	N/A	N/A
1.00	1210	394	891	250	649	179	N/A	N/A	N/A	N/A

80G2UH070AE12K / 80G2UH070AE12LK

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds									
	High (Black)		Medium-High (Brown)		Medium (Blue)		Medium-Low (Yellow)		Low (Red)	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
0.10	1425	314	1300	247	1163	177	922	102	801	75
0.20	1391	326	1275	253	1126	189	877	108	725	71
0.30	1369	336	1245	266	1099	196	840	115	673	77
0.40	1335	348	1217	271	1059	205	796	122	625	85
0.50	1312	355	1183	284	1029	216	761	128	580	87
0.60	1282	366	1156	292	995	223	718	137	530	95
0.70	1255	378	1123	303	959	231	680	144	482	99
0.80	1227	386	1094	309	929	240	638	149	429	107
0.90	1196	397	1065	321	902	247	605	157	371	111
1.00	1170	405	1034	328	865	254	570	165	N/A	N/A

80G2UH090BE12K

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds									
	High (Black)		Medium-High (Brown)		Medium (Blue)		Medium-Low (Yellow)		Low (Red)	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
0.10	1524	300	1418	231	1260	167	1012	95	973	86
0.20	1495	311	1374	243	1220	182	965	102	777	67
0.30	1460	322	1323	254	1183	188	908	110	709	73
0.40	1424	334	1297	263	1129	200	853	115	650	82
0.50	1390	343	1259	274	1100	205	802	128	575	87
0.60	1358	357	1227	283	1064	213	736	132	517	96
0.70	1329	364	1185	294	1013	223	684	138	437	100
0.80	1289	376	1144	305	968	232	639	147	380	105
0.90	1246	385	1108	311	929	238	572	152	344	108
1.00	1215	396	1059	323	881	250	510	158	N/A	N/A

80G2UH090BE16K / 80G2UH090BE16LK

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds									
	High (Black)		Medium-High (Brown)		Medium (Blue)		Medium-Low (Yellow)		Low (Red)	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
0.10	1743	383	1538	269	1419	213	1321	187	1213	141
0.20	1718	395	1509	279	1379	228	1292	195	1161	155
0.30	1681	412	1466	293	1344	237	1245	207	1113	164
0.40	1661	423	1434	307	1298	247	1198	217	1059	172
0.50	1619	435	1396	317	1259	258	1155	227	1017	178
0.60	1592	449	1357	328	1210	270	1106	235	968	188
0.70	1554	460	1313	339	1176	279	1056	244	924	198
0.80	1520	472	1274	348	1131	289	1019	254	873	205
0.90	1457	477	1239	357	1097	295	977	263	821	214
1.00	1291	429	1195	369	1055	306	936	271	738	224

80G2UH110CE16K

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds									
	High (Black)		Medium-High (Brown)		Medium (Blue)		Medium-Low (Yellow)		Low (Red)	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
0.10	1788	355	1586	250	1450	199	1365	166	1241	134
0.20	1747	371	1543	259	1407	210	1313	182	1188	139
0.30	1714	384	1501	273	1369	219	1280	189	1141	149
0.40	1681	395	1458	286	1323	231	1229	197	1088	162
0.50	1638	409	1421	296	1271	240	1174	209	1032	172
0.60	1604	423	1379	308	1227	251	1131	218	981	178
0.70	1569	432	1328	316	1191	259	1083	229	926	189
0.80	1533	447	1285	326	1138	268	1040	236	871	197
0.90	1489	459	1245	338	1089	283	974	249	828	206
1.00	1455	472	1208	348	1045	294	934	255	763	215

80G2UH110CE20K / 80G2UH110CE20LK

External Static Pressure in. w.g.	Air Volume / Watts at Different Blower Speeds											
	Bottom Return Air, Side Return Air from Both Sides or Return Air from Bottom and One Side.						Single Side Return Air - Air volumes in bold (over 1800 cfm) require Optional Return Air Base and field fabricated transition to accommodate 20 x 25 x 1 in. air filter in order to maintain proper air velocity.					
	High (Black)		Medium-High (Brown)		Medium (Blue)		High (Black)		Medium-High (Brown)		Medium (Blue)	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
0.10	2196	614	1954	430	1794	337	1499	204	1911	430	1762	336
0.20	2151	632	1919	446	1768	347	1454	214	1876	444	1718	350
0.30	2115	645	1879	461	1706	364	1402	227	1839	458	1673	361
0.40	2084	662	1845	477	1670	377	1357	238	1800	474	1638	374
0.50	2062	678	1799	491	1624	390	1309	249	1764	488	1594	388
0.60	2016	693	1763	502	1584	402	1255	261	1727	501	1556	401
0.70	1991	705	1728	519	1547	413	1208	269	1684	515	1521	411
0.80	1950	724	1684	531	1492	426	1156	281	1656	526	1480	425
0.90	1912	733	1651	543	1460	439	1105	292	1618	538	1440	437
1.00	1876	753	1605	557	1426	450	1038	303	1577	553	1396	450

BLOWER PERFORMANCE DATA - DOWNFLOW**80G2DF070AE12K**

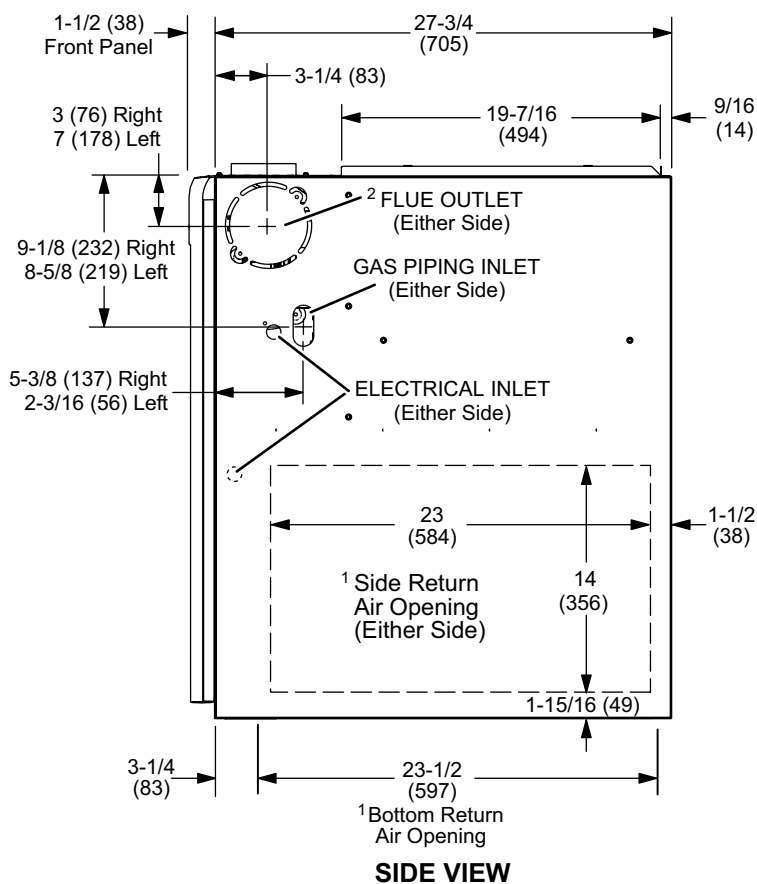
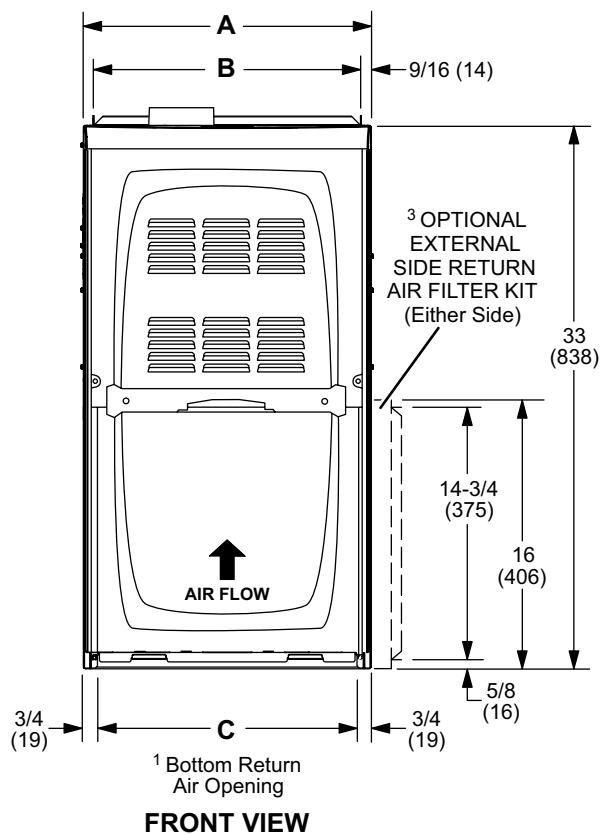
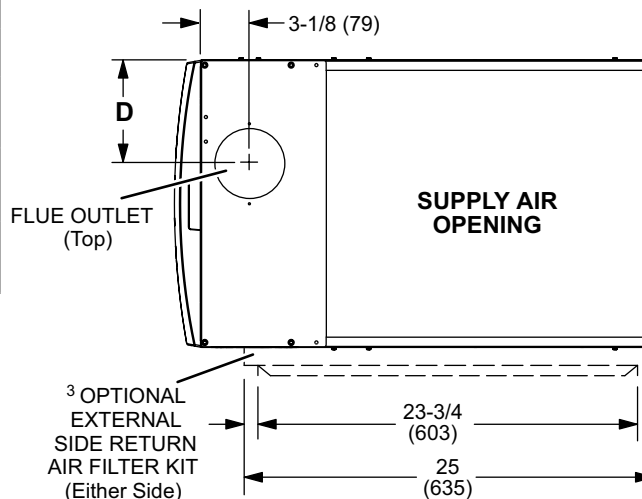
External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds									
	High (Black)		Medium-High (Brown)		Medium (Blue)		Medium-Low (Yellow)		Low (Red)	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
0.10	1439	351	1322	273	1178	201	950	113	768	75
0.20	1393	367	1296	285	1145	209	905	116	734	76
0.30	1380	371	1256	291	1113	215	860	123	680	83
0.40	1353	382	1231	301	1081	222	823	131	634	87
0.50	1320	388	1197	309	1046	230	781	135	576	93
0.60	1298	398	1174	315	1011	237	731	143	525	99
0.70	1255	405	1138	324	977	246	694	145	470	101
0.80	1191	368	1105	331	939	252	647	152	404	106
0.90	1060	351	1079	341	900	259	591	159	355	114
1.00	908	326	999	317	880	263	545	163	308	114

80G2DF090BE16K

External Static Pressure in. w.g.	Air Volume / Watts at Various Blower Speeds									
	High (Black)		Medium-High (Brown)		Medium (Blue)		Medium-Low (Yellow)		Low (Red)	
	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts	cfm	Watts
0.10	1735	410	1537	288	1407	231	1322	196	1207	153
0.20	1707	427	1498	299	1365	241	1277	206	1154	162
0.30	1656	439	1446	309	1316	251	1225	215	1091	171
0.40	1617	449	1400	323	1273	260	1185	225	1044	180
0.50	1586	460	1352	332	1221	271	1133	232	989	186
0.60	1542	473	1315	345	1181	280	1078	243	928	196
0.70	1461	448	1273	354	1134	287	1037	253	886	202
0.80	1320	347	1228	364	1092	298	981	261	824	213
0.90	1083	309	1165	363	1034	309	926	269	746	220
1.00	904	306	908	241	934	297	864	279	655	228

TOP VIEW

Model	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
80G2UH045AE12K 80G2UH070AE12K 80G2UH070AE12LK	14-1/2	368	13-3/8	340	13	330	4-3/4	121
80G2UH090BE12K 80G2UH090BE16K 80G2UH090BE16LK	17-1/2	446	16-3/8	416	16	406	6-1/4	159
80G2UH110CE16K 80G2UH110CE20K 80G2UH110CE20LK	21	533	19-7/8	504	19-1/2	495	8	203

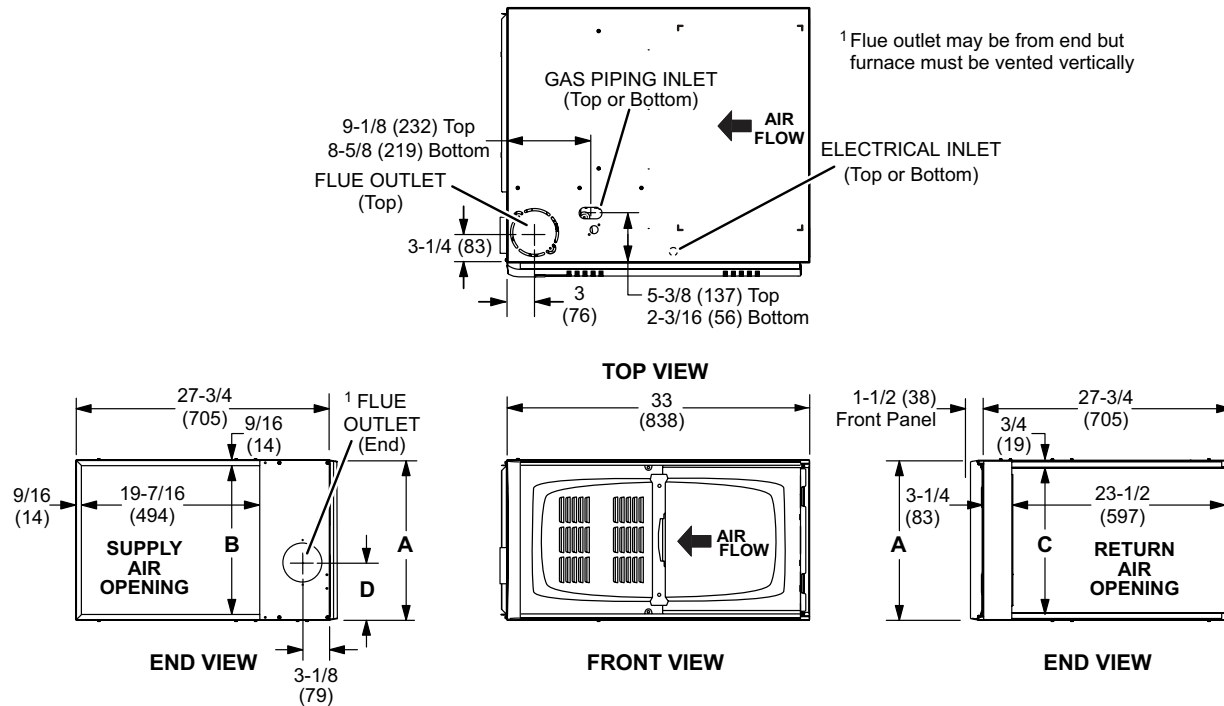
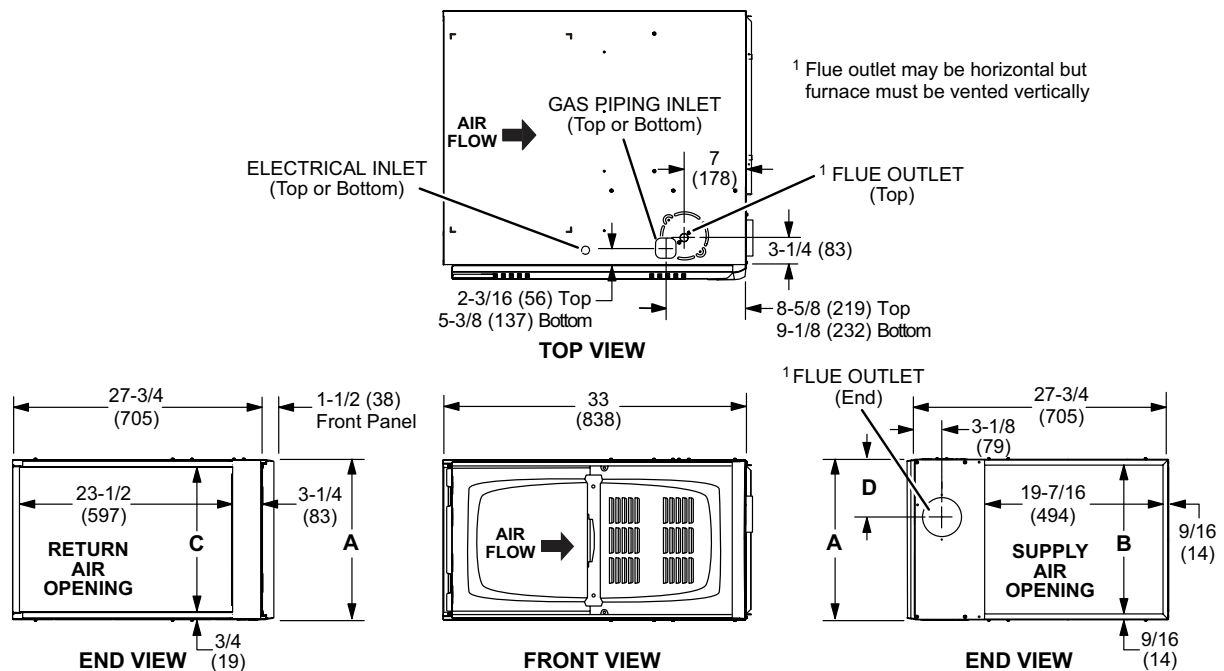


1. Single side return air and Optional Return Air Base with transition that must accommodate required 20 x 25 x 1 inch (508 x 635 x 25 mm) air filter to maintain proper velocity.
2. Bottom return air.
3. Return air from both sides.
4. Bottom and one side return air. See Blower Performance Tables for additional information.

3 Optional External Side Return Air Filter Kit is not for use with the optional Return Air Base.

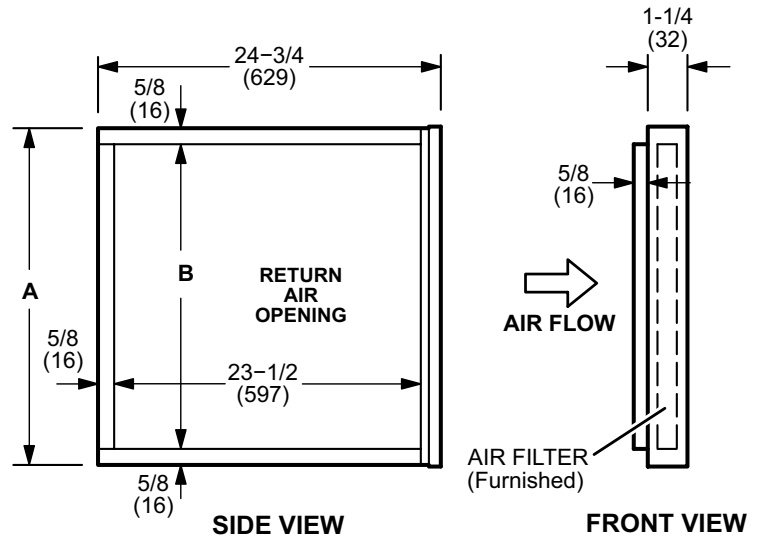
DIMENSIONS (IN.) - HORIZONTAL POSITION

Model	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
80G2UH045AE12K 80G2UH070AE12K 80G2UH070AE12LK	14-1/2	368	13-3/8	340	13	330	4-3/4	121
80G2UH090BE12K 80G2UH090BE16K 80G2UH090BE16LK	17-1/2	446	16-3/8	416	16	406	6-1/4	159
80G2UH110CE16K 80G2UH110CE20K 80G2UH110CE20LK	21	533	19-7/8	504	19-1/2	495	8	203

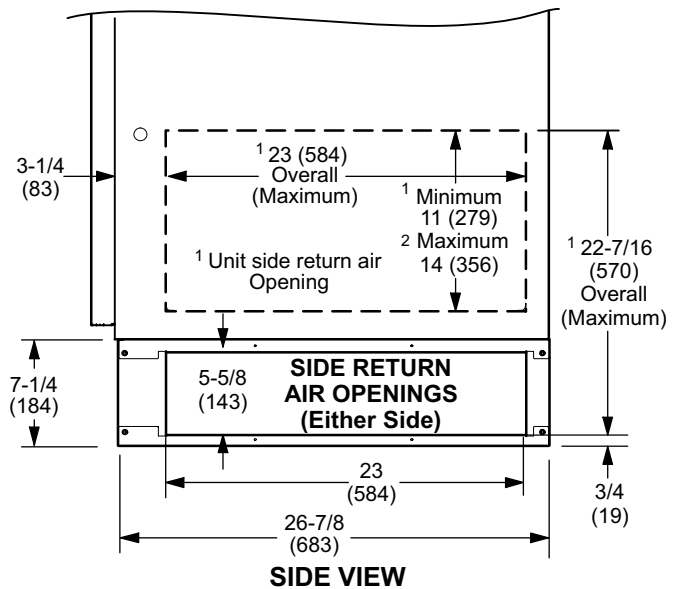
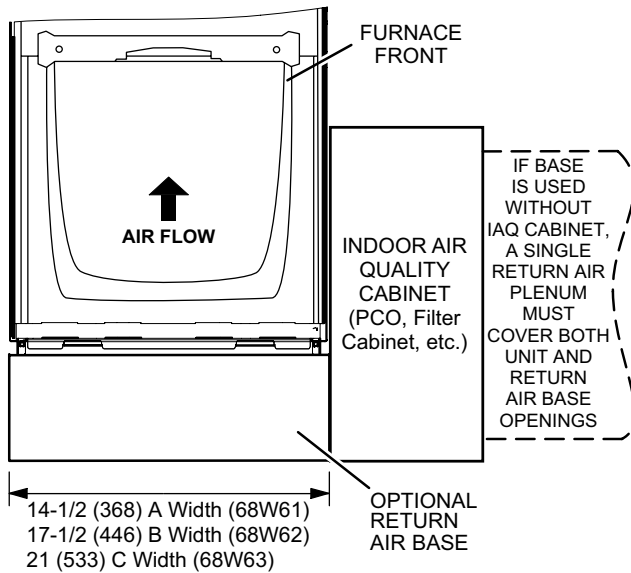
LEFT-HAND AIR DISCHARGE**RIGHT-HAND AIR DISCHARGE**

HORIZONTAL (END) FILTER KIT

Furnace Cabinet Width	Catalog Number	A		B	
		in.	mm	in.	mm
A	87L95	14	356	12-3/4	324
B	87L96	18	457	16-3/4	425
C	87L97	21	533	18-3/4	476

**OPTIONAL RETURN AIR BASE**

(Upflow Applications Only - For use with A, B and C width cabinets)



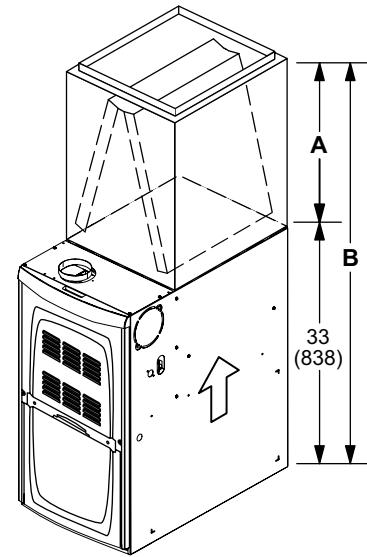
NOTE- Optional Side Return Air Filter Kits are not for use with Optional Return Air Base.

1 Both the unit return air opening and the base return air opening must be covered by a single plenum or IAQ cabinet. Minimum unit side return air opening dimensions for units requiring 1800 cfm or more of air (W x H): 23 x 11 in. (584 x 279 mm). The opening can be cut as needed to accommodate plenum or IAQ cabinet while maintaining dimensions shown. Side return air openings must be cut in the field. There are cutting guides stenciled on the cabinet for the side return air opening. The size of the opening must not extend beyond the markings on the furnace cabinet.

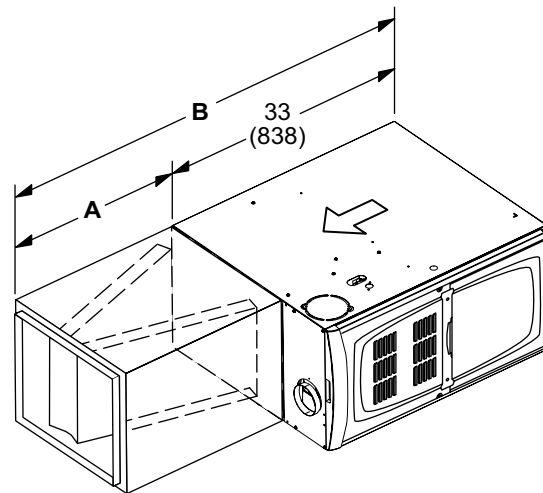
2 To minimize pressure drop, the largest opening height possible, up to 14 in. (356 mm), is preferred.

FURNACE / COIL COMBINED DIMENSIONS**UPFLOW POSITION**

Model	EAC1P/EAC4X Cased				EAU1P Uncased			
	A		B		A		B	
	in.	mm	in.	mm	in.	mm	in.	mm
EA*1P/EAC4X18/24A EA*1P/EAC4X18/24B	16-1/2	419	49-1/2	1257	14-1/8	359	47-1/8	1197
EA*1P/EAC4X24A EA*1P/EAC4X24B	18-1/2	470	51-1/2	1308	16-3/8	416	49-3/8	1254
EA*1P/EAC4X30A EA*1P/EAC4X30B	22-1/2	572	55-1/2	1410	20-3/4	527	53-3/4	1365
EA*1P/EAC4X30A/36A EA*1P/EAC4X30B/36B EA*1P/EAC4X30A/36C	24-1/2	622	57-1/2	1461	22-1/4	565	55-1/4	1403
EA*1P/EAC4X36A EA*1P/EAC4X36B	24-1/2	622	57-1/2	1461	22-3/8	568	55-3/8	1407
EA*1P/EAC4X48B EA*1P/EAC4X48C	27-1/2	699	60-1/2	1537	26-1/4	667	59-1/4	1505
EA*1P/EAC4X49C	29-1/2	749	62-1/2	1588	28-1/2	724	61-1/2	1562
EA*1P/EAC4X50/60C	27-1/2	699	60-1/2	1537	25-7/8	657	58-7/8	1495
EAC4X60C	31-1/2	800	64-1/2	1638	30-5/8	778	63-5/8	1616

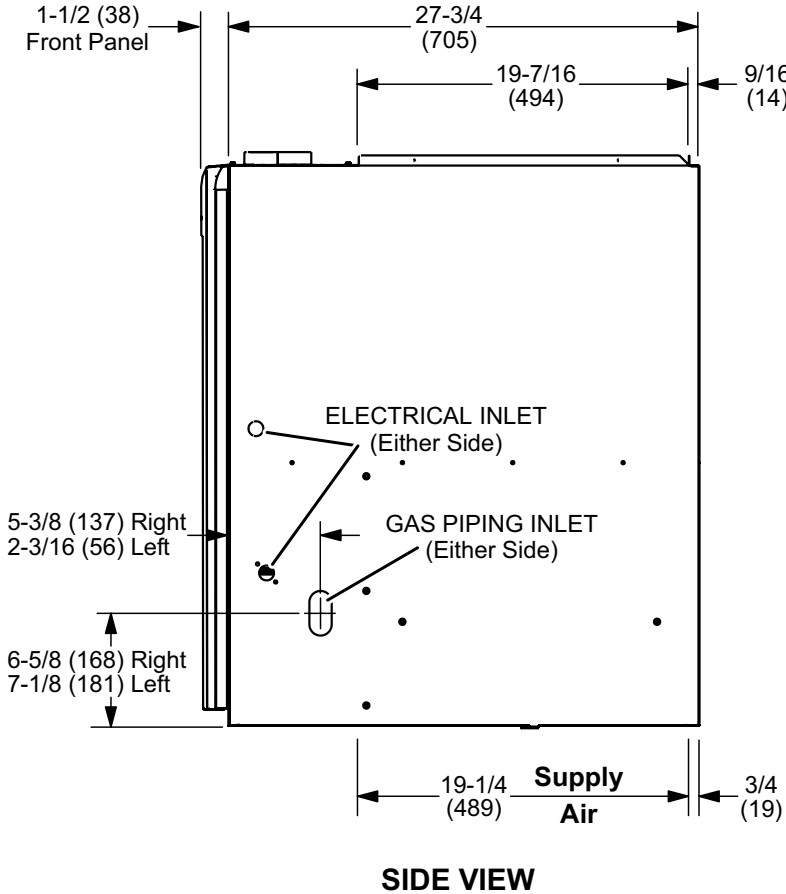
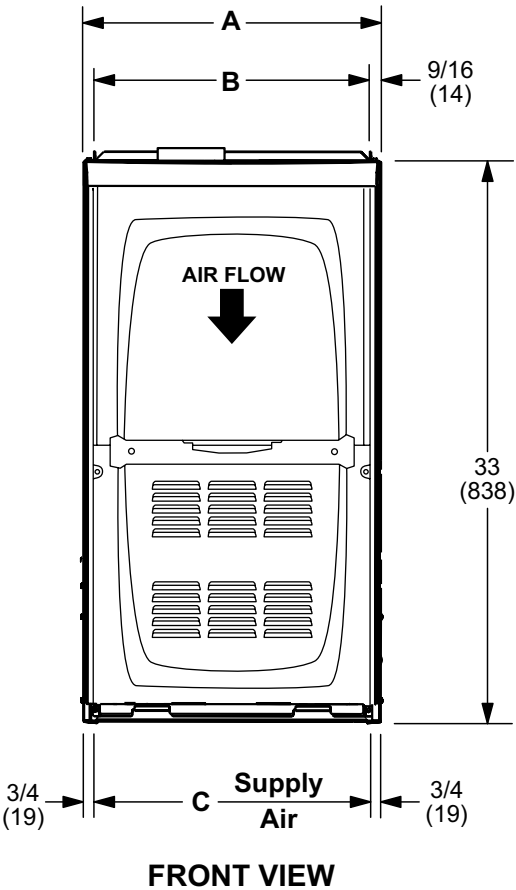
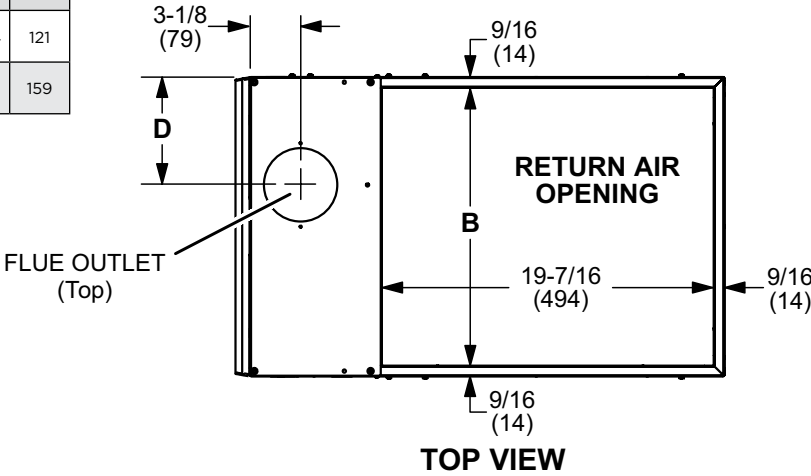
**HORIZONTAL POSITION**

Model		A		B	
		in.	mm	in.	mm
EAHIP18A EAHIP24A EAHIP24B EAHIP30B	EAHIP36A EAHIP36B EAHIP36C EAHIP42C EAHIP48C	26-1/2	673	59-1/2	1511
EAHIP30A EAHIP42B EAHIP48B	EAHIP51C EAHIP60D	31-1/2	880	64-1/2	1638



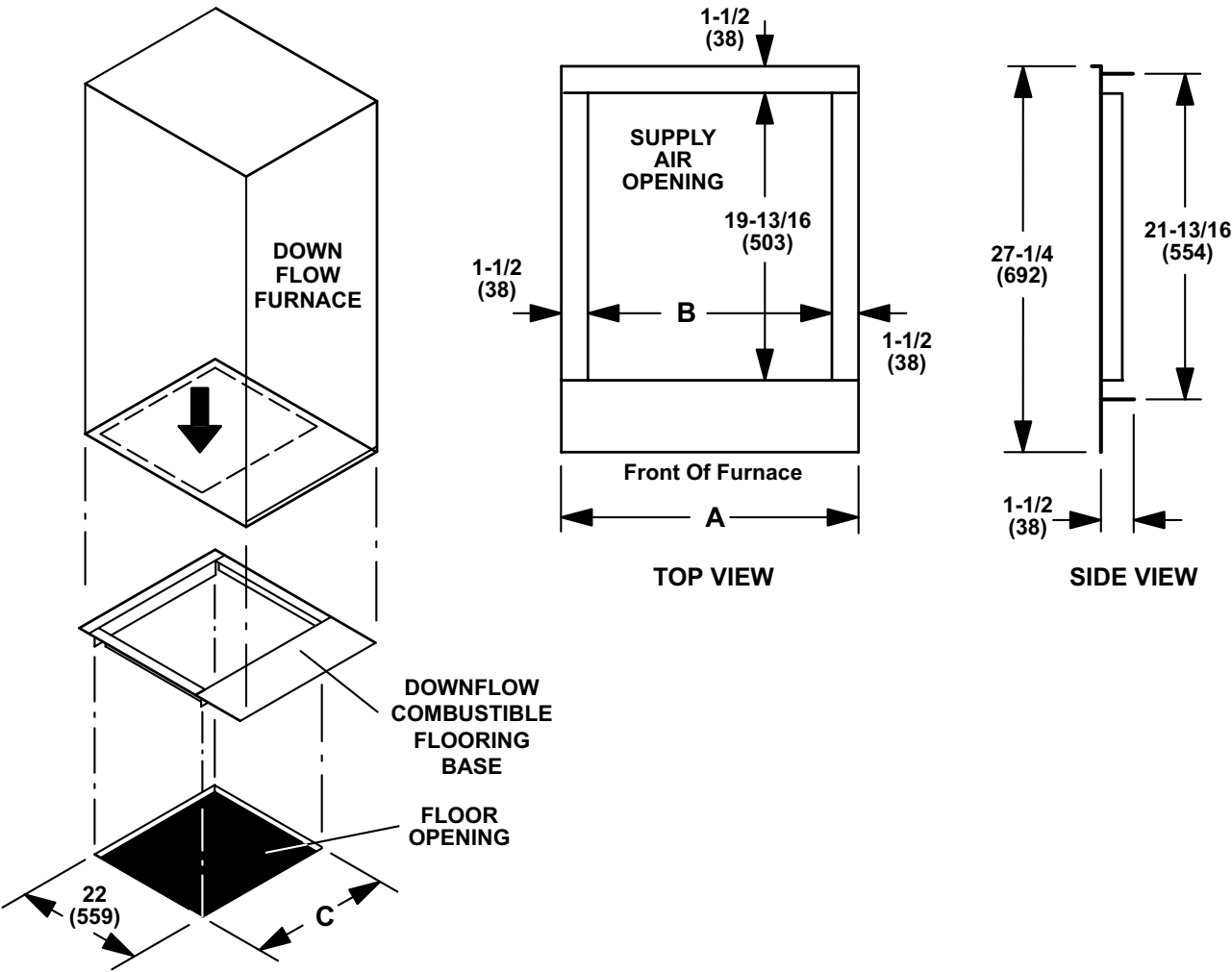
DIMENSIONS (IN.) - DOWNFLOW POSITION

Model	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
80G2DF070AE12K	14-1/2	368	13-3/8	340	13	330	4-3/4	121
80G2DF090BE16K	17-1/2	446	16-3/8	416	16	406	6-1/4	159



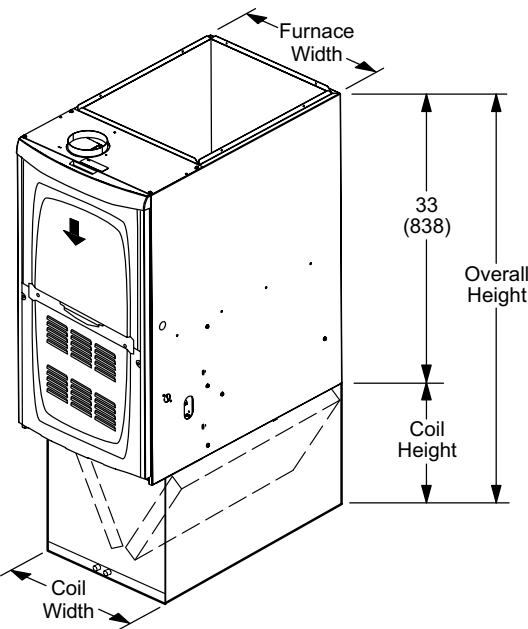
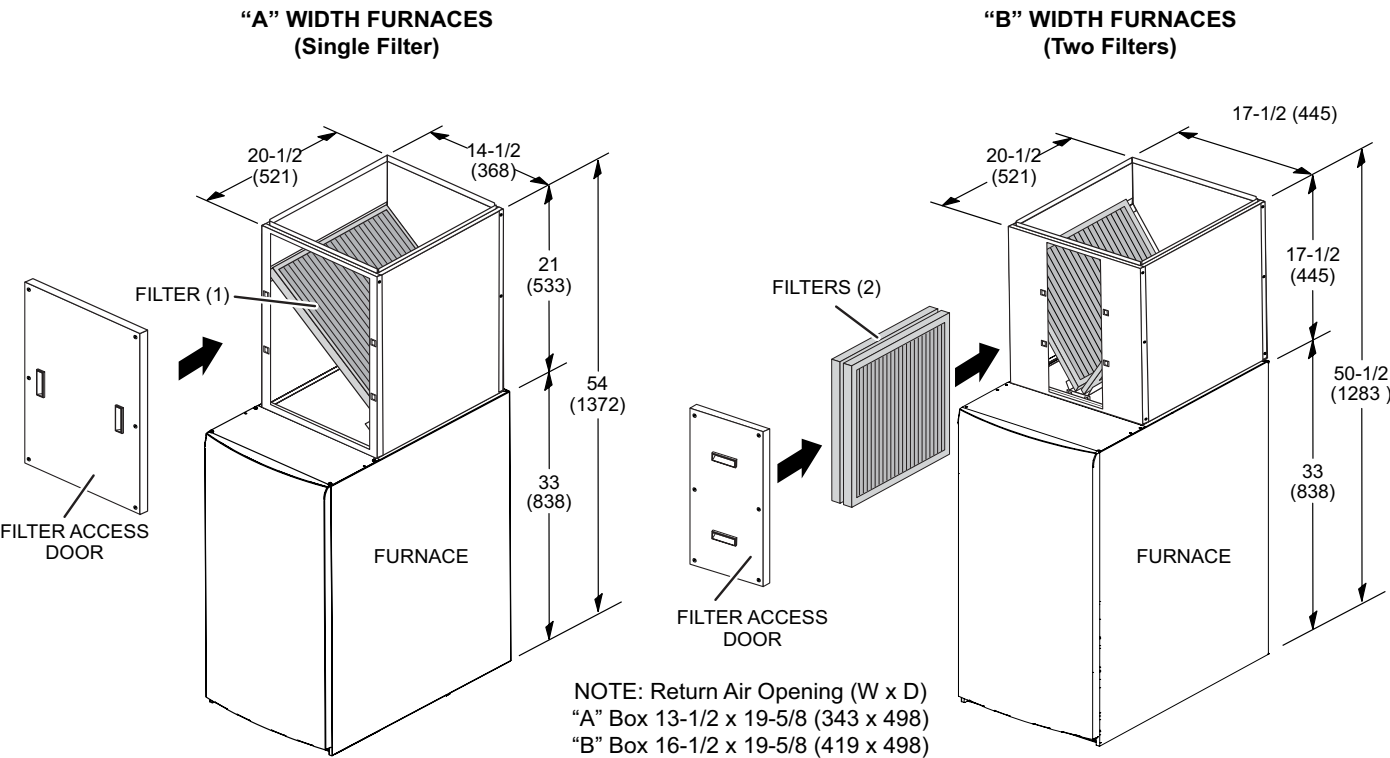
DOWNFLOW COMBUSTIBLE FLOORING BASE

Furnace Cabinet Width	Catalog Number	A		B		C	
		in.	mm	in.	mm	in.	mm
A	11M59	16-9/16	421	13-9/16	344	15-3/4	400
B	11M60	19-9/16	497	16-9/16	421	18-3/4	476



DIMENSIONS - DOWNFLOW FILTER CABINET

DOWNFLOW FILTER CABINET



FURNACE / COIL COMBINED DIMENSIONS

DOWNFLOW POSITION

Model	Coil Width		Furnace Width		Coil Height		Overall Height	
	in.	mm	in.	mm	in.	mm	in.	mm
ED1P-18A	17-1/2	446	14-1/2	368	14-1/8	359	47-1/8	1197
ED1P-24A	17-1/2	446	14-1/2	368	14-1/8	359	47-1/8	1197
ED1P-24B	17-1/2	446	17-1/2	446	14-1/8	359	47-1/8	1197
ED1P-30/36A	17-1/2	446	14-1/2	368	16-1/8	410	49-1/8	1248
ED1P-30/36B	17-1/2	446	17-1/2	446	16-1/8	410	49-1/8	1248
ED1P-48B	21	533	17-1/2	446	20	508	53	1346

ACCESSORIES

ACCESSORY	CATALOG NUMBER
RETURN AIR BASE	
Return Air Base 14.5"	68W61
Return Air Base 17.5"	68W62
Return Air Base 21.0"	68W62
HIGH ALTITUDE PRESSURE SWITCHES	
2-Stage 80% UH/DF (4,501 - 7,500 ft) [045, 070, 090, 110]	91W53
2-Stage 80% UH/DF (7,501 - 10,000 ft) [045, 070, 090, 110]	73W35
HIGH ALTITUDE ORIFICE KITS (7,500 ft+)	
2-Stage 80% UH/DF - Natural Gas	51W01
2-Stage 80% UH/DF - Propane Gas	11K47
NATURAL TO LP KITS	
2-Stage 80% UH/DF (0 - 7,500 ft)	11K48
2-Stage 80% UH/DF (7,501 - 10,000 ft)	11K47
LP TO NATURAL KITS	
2-Stage 80% UH/DF	77W10
DOWNFLOW SPECIFIC AIR FILTERS	
14.5"	51W06
17.5"	51W07
DOWNFLOW COMBUSTIBLE FLOORING BASE	
14.5"	11M59
17.5"	11M60
NIGHT SERVICE KITS	
2-Stage	22J94
HORIZONTAL SUSPENSION KIT	
80% & 90%	51W10
EXTERNAL FILTER RACK KITS	
1 pack (16 x 25)	1.841018
10 pack (16 x 25)	1.841039
TWINNING KIT	
Constant Torque Gas Furnace Twinning Kit	16W72
TRANSFORMER (75VA)	
Recommended when furnace is used with zoning or defrost thermostats and other 24V accessories requiring a higher VA rating	27J32
Circuit breaker (furnished) is wired in series	
Replaces the standard 40VA transformer	

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

REFRIGERANT DETECTION SYSTEM (RDS) COMPONENTS

DESCRIPTION	ORDER No.
Refrigerant Detection System (RDS) Coil Sensor Kit	27V53



1-800-448-5872

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