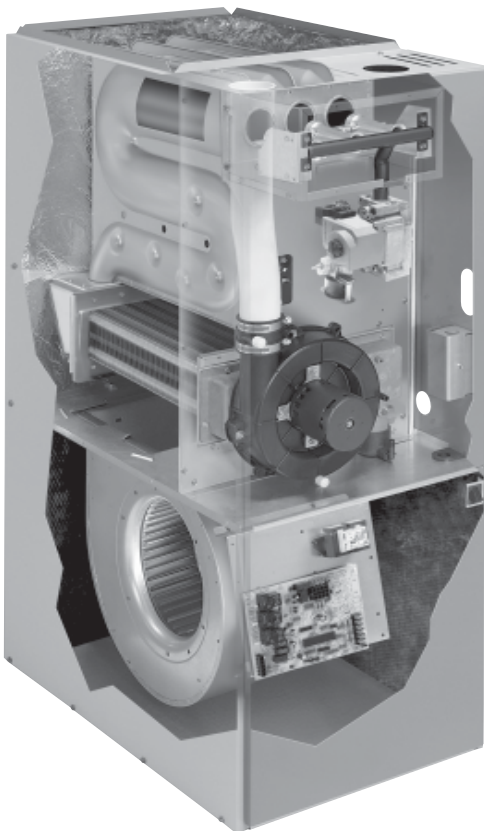




## G2D95BT



# ULTRA V

ENHANCED 95v

# High Efficiency Gas Furnace

## Upflow/Horizontal

### HEAT EXCHANGER

- 409 Stainless steel tapered S-curve design primary
- 29-4C Stainless steel secondary
- Crimped no-weld construction for longer life

### CABINET

- Compact 44" height
- Insulated to increase efficiency and reduce sound levels
- Unitized construction for cabinet integrity
- Prepainted baked polyester steel for maximum durability

### BLOWER

- Isolated and insulated compartment to reduce sound levels
- Easily removable slide-out design
- General Electric ECM2.3™ variable speed motor
- Variable speed motor offers superior energy efficiency, low operating sound and excellent air distribution
- Dynamically balanced blower with resilient motor mounts for smooth and quiet operation
- Blower ramp up and ramp down

### BURNERS

- Aluminized steel inshot burners for quiet operation

### CONTROLS

- Honeywell two stage gas valve
- Integrated two stage ignition and fan control board
- Board features self diagnostics saving last five (5) fault codes in nonvolatile memory for ease of service
- Provides reverse polarity identification
- Hot surface ignition using steel shrouded, high density mini-ignitor
- Control board features adjustable fan off time in the heating mode and a 60 second fan off time delay in the cooling mode
- Active and passive dehumidification in conjunction with cooling
- Control circuit is fuse protected
- 40 VA transformer
- Color coded control wiring
- Single or two stage thermostat ready with selectable timings

### VENTING

- 2-speed draft motor with stainless steel shaft, chrome alloy steel ball bearings, and fan cooled for long life
- ABS and PVC approved
- Sealed combustion for dual certified venting
- Approved for one or two pipe venting
- Internal drain trap for upflow installation
- External drain kit included for horizontal applications

### INSTALLATION

- Left or right gas and electrical entry
- Complies with California Energy Commission Low NOx regulations
- Laser cut base for easy removal of knockout for horizontal applications

### ACCESSORIES

- LP Conversion kit
- Side return filter kit for single return (5 ton airflow)
- "Flush fit" air conditioning coils

### WARRANTY

- Limited lifetime non-prorated on primary and secondary heat exchangers
- 5 Year limited on all components
- Extended protection plans available



## Model Number Guide

	G	2D	95	B	T	100	V	20	C	1A	
G - Product Family											Series
2D - Two Stage Heat, Direct Vent											Cabinet Width B = 17 1/2" C = 21"
Nominal AFUE											Nom. Maximum CFM x 100
B - Series											V - Direct Vent, Variable Speed
T - Upflow/Horizontal U- Upflow											Nom. Btuh Input x 1000

## Physical & Electrical

Model	Min. Input (Btuh)	Max. Input (Btuh)	Output (Btuh)	AFUE (ICS)	Nom. Cooling Cap.	Gas Inlet (in.)	Volts/ Hz/Ph	Min. Time Delay Breaker or Fuse	Nominal F.L.A.	Trans. (V.A.)	Appr. Weight (lbs.)
G2D95BT040V12B	32,000	40,000	38,000	94.5	1.5 - 3.0	1/2	120/60/1	15	5.3	40	170
G2D95BT060V14B	48,000	60,000	57,000	94.5	1.5 - 3.5	1/2	120/60/1	15	5.3	40	195
G2D95BT080V16C	64,000	80,000	76,000	94.5	2.5 - 4.0	1/2	120/60/1	15	5.3	40	205
G2D95BT080V20C	64,000	80,000	76,000	94.5	3.5 - 5.0	1/2	120/60/1	15	6.8	40	210
G2D95BT100V20C	80,000	100,000	95,000	94.5	3.5 - 5.0	1/2	120/60/1	15	6.8	40	230
G2D95BT125V20C	100,000	125,000	118,000	94.0	3.5 - 5.0	1/2	120/60/1	15	6.8	40	230
G2D95BU125V20D*	100,000	125,000	118,000	94.0	3.5 - 5.0	1/2	120/60/1	15	6.8	40	235

\*Available in upflow only

## Vent Length Specifications - Maximum

Model	Pipe Size (in.)		
	2	2 1/2	3
G2D95BT040	60 ft	90 ft	90 ft
G2D95BT060	60 ft	90 ft	90 ft
G2D95BT080	60 ft	90 ft	90 ft
G2D95BT100	20 ft.	50 ft	60 ft
G2D95BT125	NR	50 ft	60 ft
*G2D95BU125	NR	50 ft	60 ft

One 90° elbow equals 5 ft. of pipe.

Min. length 5 ft. and 1 elbow not including the vent and air intake terminals.

\*Available in upflow only

## Accessories

Kit Number	Description	Used with
ALPKT583-1	Propane Conversion Kit	All Ultra V 2 Stage Models
AMB20A-1	Filter Kit	All 90% Ultra V Upflow Models
ACVK2-1	Concentric Vent Kit	All 90% Ultra V Models
AFUSE576	Fuse Kit	All Ultra V Models

## Blower Performance

Model	Motor Size HP	Blower Size	Temp. Rise °F	Heat Tap Setting	.20	.30	.40	.50	*CFM @ DIFF. Static Pressue - in. w.c. with Filter(s)								
									Cooling Tap Setting	.20	.30	.40	.50	.60	.70	.80	.90
G2D95BT040V12B	1/2	10 X 8	40-50	A High Fire	847	843	831	836	A	1203	1198	1195	1183	1172	1155	1151	1136
					B	983	987	977	980	972	968	961	947				
				A Low Fire	579	563	567	544	C	785	782	785	774	767	761	738	734
					D	598	588	586	584	574	559	543	529				
G2D95BT060V14B	1/2	10 X 8	50-60	A High Fire	844	856	846	855	A	1454	1475	1448	1406	1377	1337	1303	1220
					B	1227	1235	1239	1237	1238	1230	1226	1213				
				A Low Fire	598	599	599	613	C	1011	1015	1036	1042	1045	1040	1037	1030
					D	814	807	802	814	817	824	826	816				
G2D95BT080V16C	3/4	12 X 10	50-60	A High Fire	1218	1219	1225	1248	A	1588	1590	1595	1600	1599	1600	1598	1588
					B	1400	1405	1409	1414	1413	1414	1410	1405				
				A Low Fire	885	884	890	907	C	1195	1200	1206	1214	1216	1219	1220	1225
					D	999	1000	1003	1006	1015	1028	1030	1031				
G2D95BT080V20C	1	12 X 10	50-60	C or D High Fire	1320	1340	1324	1332	A	2006	1996	1991	1987	1968	1954	1926	1905
					B	1795	1785	1781	1780	1765	1741	1732	1709				
				C or D Low Fire	945	927	944	932	C	1588	1594	1588	1590	1579	1564	1559	1554
					D	1343	1323	1337	1331	1321	1313	1284	1276				
G2D95BT100V20C	1	12 X 10	50-60	B High Fire	1565	1562	1563	1565	A	1890	1889	1888	1890	1900	1898	1895	1886
					B	1711	1710	1708	1706	1700	1701	1692	1680				
				B Low Fire	1040	1039	1042	1045	C	1475	1474	1485	1489	1490	1494	1485	1477
					D	1269	1269	1265	1268	1274	1279	1278	1278				
G2D95BT125V20C	1	12 X 10	50-60	A High Fire	2010	1009	2015	2019	A	1890	1889	1888	1890	1900	1898	1895	1886
					B	1711	1710	1708	1706	1700	1701	1692	1680				
				A Low Fire	1325	1324	1322	1321	C	1475	1474	1485	1489	1490	1494	1485	1477
					D	1269	1269	1265	1268	1274	1279	1278	1278				
G2D95BU125V20D**	1	12 X 10	50-60	A High Fire	2010	1009	2015	2019	A	1890	1889	1888	1890	1900	1898	1895	1886
					B	1711	1710	1708	1706	1700	1701	1692	1680				
				A Low Fire	1325	1324	1322	1321	C	1475	1474	1485	1489	1490	1494	1485	1477
					D	1269	1269	1265	1268	1274	1279	1278	1278				

\*.50 in. w.c. Max. Approved Diff. Static Pressure

\*\*Available in upflow only

## Filter Requirements

Airflow Descriptor	Disposable Filters			Permanent Filters		
	Min Area (sq. in.)	Size (in.)	Quantity	Min Area (sq. in.)	Size (in.)	Quantity
12	576	16 x 20	2	288	16 x 20	1
14	672	20 x 20	2	336	20 x 20	1
16	768	20 x 20	2	384	20 x 20	1
20	960	20 x 25	2	480	20 x 25	1

1. The Airflow Descriptor is the two digits following the "V" in the model number; e.g. "20" is the Airflow Descriptor for G2D95BT080V20C.

2. Areas and dimensions shown for permanent filters are based on filters rated at 600 feet per minute face velocity.

3. Typical filter sizes are shown, however, any combination of filters whose area equals or exceeds the minimum area shown is satisfactory.

## Dimensions (in.)

Model	A	B	C	D	E
G2D95BT040V12B	17 1/2	16 1/2	14	10 1/8	2
G2D95BT060V14B	17 1/2	16 1/2	14	11 3/4	2
G2D95BT080V16C	21	20	17 1/2	15	2
G2D95BT080V20C					
G2D95BT100V20C	21	20	17 1/2	16 1/2	1 1/2
G2D95BT125V20C					
G2D95BU125V20D*	24 1/2	23 1/2	21	18	2

\*Available in upflow only

## Clearances (in.)

### Upflow

Model	Top	Side	Front	Back	Vent
G2D95BT040V12B	1	0	2	0	0
G2D95BT060V14B					
G2D95BT080V16C					
G2D95BT080V20C					
G2D95BT100V20C					
G2D95BT125V20C					
G2D95BU125V20D*					

\*Available in upflow only

### Horizontal

Model	Top	Right Side	Left Side	Front	Back	Vent
G2D95BT040V12B	0	0	0	18	0	0
G2D95BT060V12B						
G2D95BT080V16C						
G2D95BT080V20C						
G2D95BT100V20C						
G2D95BT125V20C						

\*Clearances to combustibles. Service access to the front of the appliance to remove the blower assembly is 18".

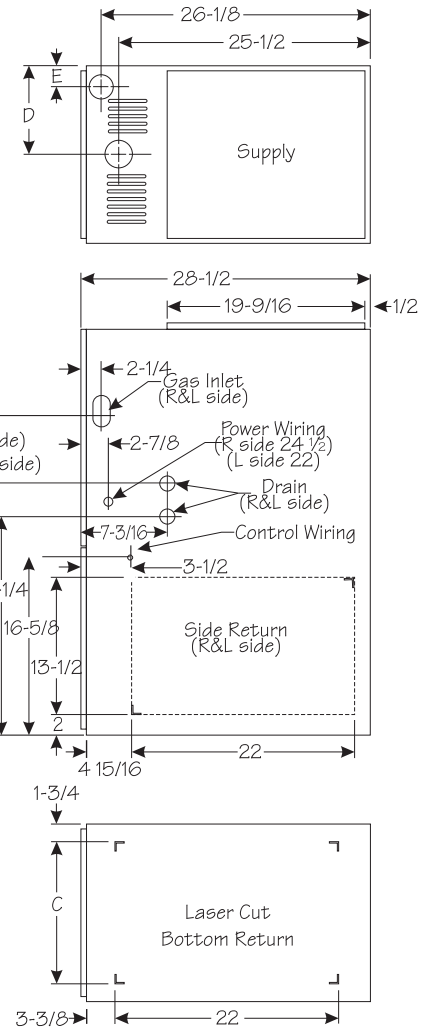
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As an Energy Star Partner, Armstrong Air Conditioning Inc. has determined that this product meets the Energy Star Guidelines for energy efficiency.

