

G2D80CR-V = Counterflow / Horizontal
G2D80CT-V = Upflow / Horizontal
(shown)

Features

HEAT EXCHANGER DESIGN

- Efficient aluminized steel tapered S-curve design
- Crimped no weld construction for longer life

BURNERS

- Aluminized steel inshot burners for smooth ignition
- Sealed combustion burner enclosure for quiet operation

CABINET CONSTRUCTION

- Compact 40" height
- Insulated to increase efficiency and reduce sound levels
- Unitized construction for cabinet integrity
- Baked on prepainted steel cabinet finish

AIR DELIVERY SYSTEM

- ECM variable speed blower motor
- Motor features "soft start" and "soft stop" for quiet operation
- Active and passive dehumidification feature
- Easily removable slide-out blower design
- Dynamically balanced blower wheel and resilient motor mounts for smooth and quiet operation

CONTROLS

- Two stage gas valve
- Integrated ignition and fan control
- System Sentry™ control features five (5) fault codes with push button memory recall, regardless of power interruption
- Hot surface ignition using steel shrouded, high density mini-ignitor
- Control features 120 volt electronic air cleaner and humidifier terminals
- Control circuit is fuse protected
- Compatible with single or two stage thermostats for heating

Note: Two stage cooling thermostat is required 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
- Certified for direct and non-direct vent applications
Direct vent refers to a combustion air supply intake pipe installed in conjunction with flue gas vent pipe

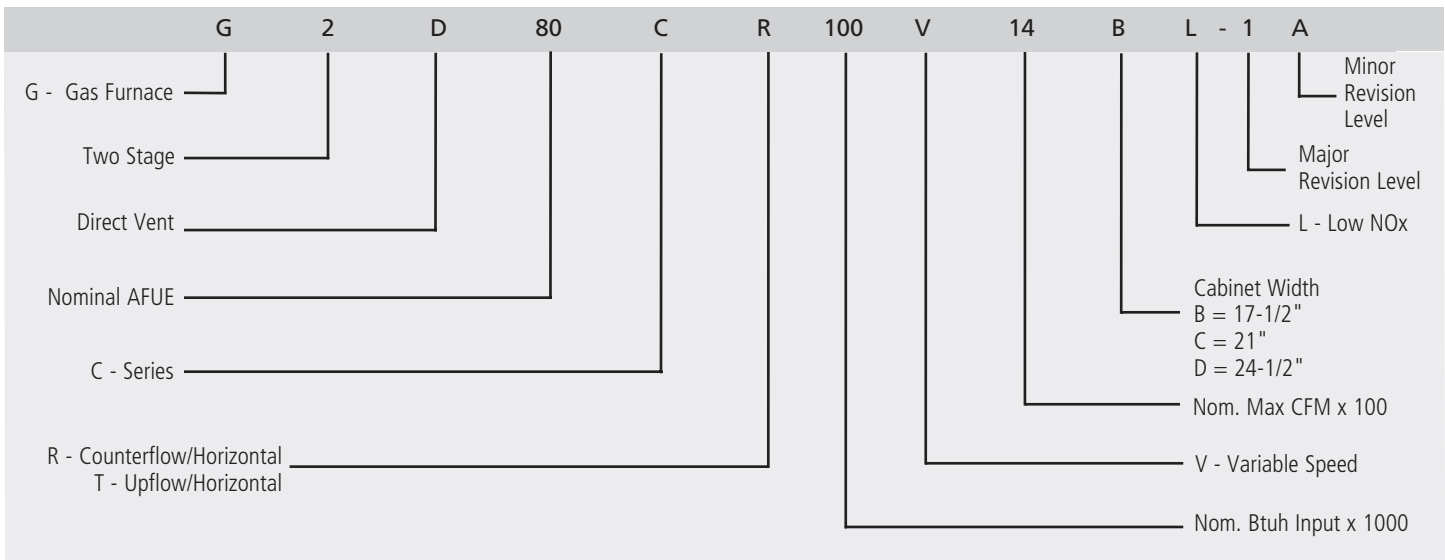
INSTALLATION FEATURES

- Left or right gas and electric entry
- "L" models comply with California's South Coast Air Quality Management District Low NOx requirements
- Filter rack and permanent cleanable filter provided on upflow/horizontal models
- Downflow/Horizontal models are Low NOx equipped as standard

WARRANTY

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

Model Number Guide



Physical and Electrical Data

Model	1st Stage		2nd Stage		AFUE (ICS)	Nom. Cooling Capacity	Gas Inlet (in.)	Flue Size (in.)	Volts/ Hz/ Phase	Min. Time Delay Breaker or Fuse	Nominal F.L.A.	Trans. (V.A.)	Approx. Weight (lbs.)
	Input	Output	Input	Output									
G2D80CR075V14BL*	52,500	42,000	75,000	60,000	80.0%	2.0 - 3.5	1/2	4	120/60/1	15	5.3	40	140
G2D80CR100V14BL*	70,000	56,000	100,000	80,000	80.0%	2.0 - 3.5	1/2	5	120/60/1	15	5.3	40	155
G2D80CR125V20CL*	87,500	70,000	125,000	100,000	80.0%	3.0 - 5.0	1/2	5	120/60/1	15	5.8	40	190
G2D80CT050V12B(L)	35,000	28,000	50,000	40,000	80.0%	1.5 - 3.0	1/2	4	120/60/1	15	2.8	40	125
G2D80CT075V14B(L)	52,500	42,000	75,000	60,000	80.0%	2.0 - 3.5	1/2	4	120/60/1	15	5.3	40	140
G2D80CT100V14B(L)	70,000	56,000	100,000	80,000	80.0%	2.0 - 3.5	1/2	5	120/60/1	15	5.3	40	155
G2D80CT100V20C(L)	70,000	56,000	100,000	80,000	80.0%	3.0 - 5.0	1/2	5	120/60/1	15	5.8	40	180
G2D80CT125V20C(L)	87,500	70,000	125,000	100,000	80.0%	3.0 - 5.0	1/2	5	120/60/1	15	5.8	40	190
G2D80CT150V20D(L)	105,000	84,000	150,000	120,000	80.0%	3.0 - 5.0	1/2	5	120/60/1	15	5.8	40	200

* Low NOx is standard

Filter Requirement Data

Maximum Airflow (CFM) ¹	Disposable Filters			Permanent (Cleanable) Filters ²		
	Minimum Area (sq. in.) ³	Size (in.) ³	Quantity	Minimum Area (sq. in.) ³	Size (in.) ³	Quantity
1200	576	16 x 20	2	288	16 x 20	1
1400	672	20 x 20	2	336	20 x 20	1
1600	768	20 x 20	2	384	20 x 20	1
2000	960	20 x 25	2	480	20 x 25	1

1. The Maximum Airflow is the two digits following the "V" in the model number x 100; e.g. "14 x 100 = 1400" is the maximum airflow for G2D80CR100V14B.

2. Areas and dimensions shown for permanent (cleanable) 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.

Blower Performance Data

Direction	Model	Motor Size (hp)	Blower Size	Temp Rise (°F)	Blower Speed Tap Heating CFM			Cooling Adjust-ment	Cooling CFM @ .50 in W.C. ext. static pressure			
						Low Fire	High Fire		Setting "A"	Setting "B"	Setting "C"	Setting "D"
Counterflow / Horizontal	G2D80CR075V14BL*	1/2	10 x 8	50 - 60		---	---	Norm.	1465	1265	1045	825
						---	---	(+)	1520	1460	1215	970
						---	---	(-)	1255	1050	890	655
					B Tap Setting**	715	1075	---	---	---	---	
	G2D80CR100V14BL*	1/2	10 x 8	60 - 70		---	---	Norm.	1555	1375	1140	915
						---	---	(+)	1585	1525	1305	1050
						---	---	(-)	1340	1145	980	760
					B Tap Setting**	835	1135	---	---	---	---	
	G2D80CR125V20CL*	3/4	12 x 10	55 - 65		---	---	Norm.	1940	1930	1740	1565
					---	---	(+)	1930	1950	1970	1730	
					---	---	(-)	1800	1680	1520	1345	
				D Tap Setting**	1025	1585	---	---	---	---		
Upflow / Horizontal	G2D80CT50V12B(L)	1/3	10 x 8	40 - 50		---	---	Norm.	1130	990	810	605
						---	---	(+)	1125	1125	920	690
						---	---	(-)	1005	855	670	515
					A Tap Setting**	575	750	---	---	---	---	
	G2D80CT075V14B(L)	1/2	10 x 8	50 - 60		---	---	Norm.	1420	1210	1010	815
						---	---	(+)	1515	1385	1170	945
						---	---	(-)	1195	1010	865	660
					A Tap Setting**	750	1000	---	---	---	---	
	G2D80CT100V14B(L)	1/2	10 x 8	60-70		---	---	Norm.	1395	1190	1005	795
						---	---	(+)	1490	1370	1155	935
						---	---	(-)	1195	1015	855	650
					C Tap Setting**	900	1195	---	---	---	---	
	G2D80CT100V20C(L)	3/4	12 x10	55-65		---	---	Norm.	2020	1865	1670	1480
						---	---	(+)	2030	2020	1910	1660
						---	---	(-)	1765	1615	1410	1255
					A Tap Setting**	680	1155	---	---	---	---	
	G2D80CT125V20C(L)	3/4	12 x 10	55-65		---	---	Norm.	1945	1785	1605	1405
						---	---	(+)	1945	1945	1820	1600
						---	---	(-)	1675	1530	1355	1210
					B Tap Setting**	950	1605	---	---	---	---	
	G2D80CT150V20D(L)	3/4	12 x 10	65-75		---	---	Norm.	1955	1800	1615	1430
					---	---	(+)	1960	1965	1815	1620	
					---	---	(-)	1700	1550	1375	1210	
				C,D Tap Setting**	850	1435	---	---	---	---		

* Low NOx is standard

** Required tap to maintain recommended rise.

Accessories

Description	Used With	Kit Number	Catalog Number
Propane conversion kit	All 2 Stage 80 models	ALPKT582	1.831023
Upflow side return filter kit (16 x 25 filter)	All Upflow capable models	AFILT524	1.841018
Counterflow filter kit	All Counterflow furnaces	AFILT525	1.841019
Bottom return filter kit	80 Upflow capable models	AFILT529	1.841020
Side Return Filter Kit for single return for 5 Tons Airflow (2 16x20 filters)	All Upflow capable models	AFILTHA7	1.841005
Combustible floor base for 17.5" wide units	All Counterflows for B width cabinets	ABASE512	1.841015
Combustible floor base for 21" wide units	All Counterflows for C width cabinets	ABASE568	1.841035

Dimensions (in.)

Model	A	B	C	D	E	F	G
G2D80CR075V14BL*	17-1/2	16-1/2	16-1/4	6-1/2	5	3	2
G2D80CR100V14BL*	17-1/2	16-1/2	16-1/4	6-1/2	4-3/8	3-3/8	3
G2D80CR125V20CL*	21	20	19-3/4	8-1/4	4-5/8	3-3/8	3
G2D80CT050V12B(L)	17-1/2	16-1/2	14	6-1/2	5	3	---
G2D80CT075V14B(L)	17-1/2	16-1/2	14	6-1/2	5	3	---
G2D80CT100V14B(L)	17-1/2	16-1/2	14	6-1/2	4-1/2	3-1/8	---
G2D80CT100V20C(L)	21	20	17-1/2	8-1/4	6-1/4	3-5/16	---
G2D80CT125V20C(L)	21	20	17-1/2	8-1/4	4-5/8	3-1/4	---
G2D80CT150V20D(L)	24-1/2	23-1/2	21	10	4-7/8	3-5/16	---

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Clearances (in.) Counterflow

Model	Top	Right Side	Left Side	Front	Back	Vent
G2D80CR075V14BL*	1	0	2 ¹	4 ³	0	6 ²
G2D80CR100V14BL*						
G2D80CR125V20CL*	1	0	0	4 ³	0	6 ²
Upflow						
G2D80CT050V12B(L)	1	0	2 ¹	4 ³	0	6 ²
G2D80CT075V14B(L)						
G2D80CT100V14B(L)						
G2D80CT100V20C(L)	1	0	0	4 ³	0	6 ²
G2D80CT125V20C(L)	1	0	0	4 ³	0	6 ²
G2D80CT150V20D(L)						

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¹0" IF B1 Vent is used
²1" IF B1 Vent is used
³2" IF B1 Vent is used

Minimum clearances to combustibles. 18" minimum clearance required to front of furnace to remove blower assembly.

Clearances (in.) Horizontal

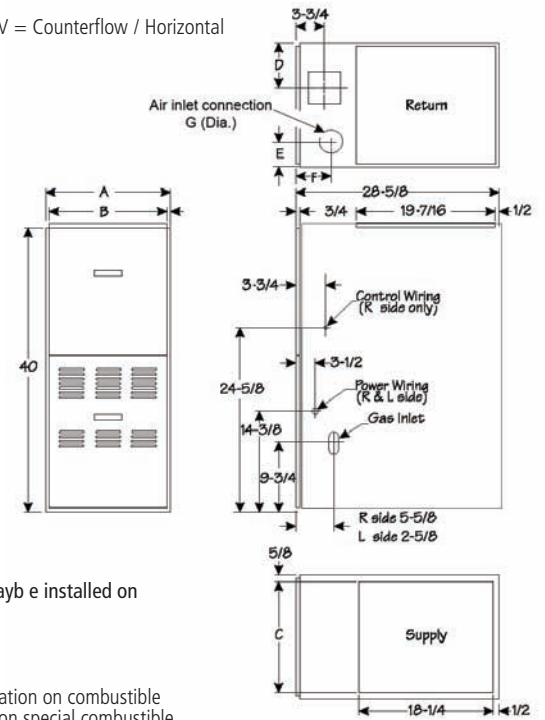
Model	Right Side	Left Side	Front	Back	Vent	Airflow			
						Left to Right		Right to Left	
						Top	Bottom	Top	Bottom
G2D80CR075V14BL*	1	1	18	0	6 ²	1	2 ¹	2 ¹	0
G2D80CR100V14BL*									
G2D80CR125V20CL*	1	1	18	0	6 ²	1	0	1	0
G2D80CT050V12B(L)	1	1	18	0	6 ²	1	3 ¹	3 ¹	0
G2D80CT075V14B(L)									
G2D80CT100V14B(L)									
G2D80CT100V20C(L)	1	1	18	0	6 ²	1	2 ¹	2 ¹	0
G2D80CT125V20C(L)									
G2D80CT150V20D(L)	1	1	18	0	6 ²	1	0	1 ¹	0

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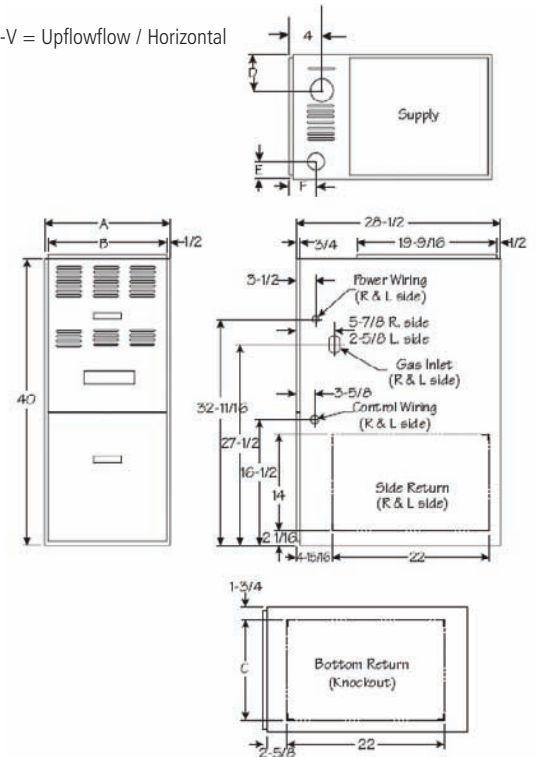
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For upflow installations: May be installed on combustible flooring.

Counterflow models: Installation on combustible flooring only when installed on special combustible floor base.

G2D80CT-V = Upflow / Horizontal



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



(800) 448-5872

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