

HEAT EXCHANGER DESIGN

- 409 Stainless steel primary heat exchanger material
- AL29-4C Stainless steel secondary heat exchanger
- Weldless crimped S-curve primary heat exchanger design for maximum durability

BURNERS

- Aluminized steel in shot burners for smooth ignition
- Isolated burner enclosure for quiet operation

CABINET CONSTRUCTION

- Unitized construction for cabinet integrity
- Heat exchanger compartment and blower compartment insulated to increase efficiency and reduce sound levels
- Baked on prepainted steel cabinet finish

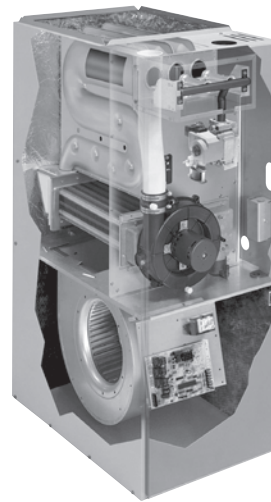
AIR DELIVERY SYSTEM

- 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 with resilient motor mounts for smooth and quiet operation

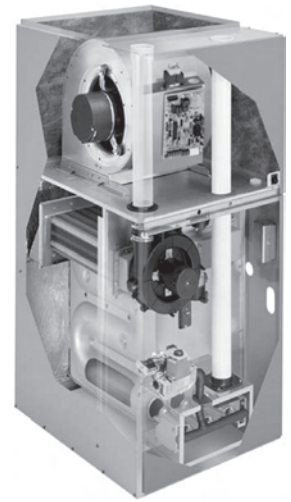
CONTROLS

- 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 system uses high density mini ignitor with stainless steel shroud
- 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 required when installed with two stage cooling unit.



Upflow/Horizontal



Counterflow



VENTING

- 2-speed induced draft motor with stainless steel shaft, steel ball bearings, and fan cooled for long life
- Vent materials for Canadian applications must comply with ULC S636
- 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.
- Internal condensate drain trap for upflow and counterflow installations
- External condensate drain kit factory provided for horizontal applications

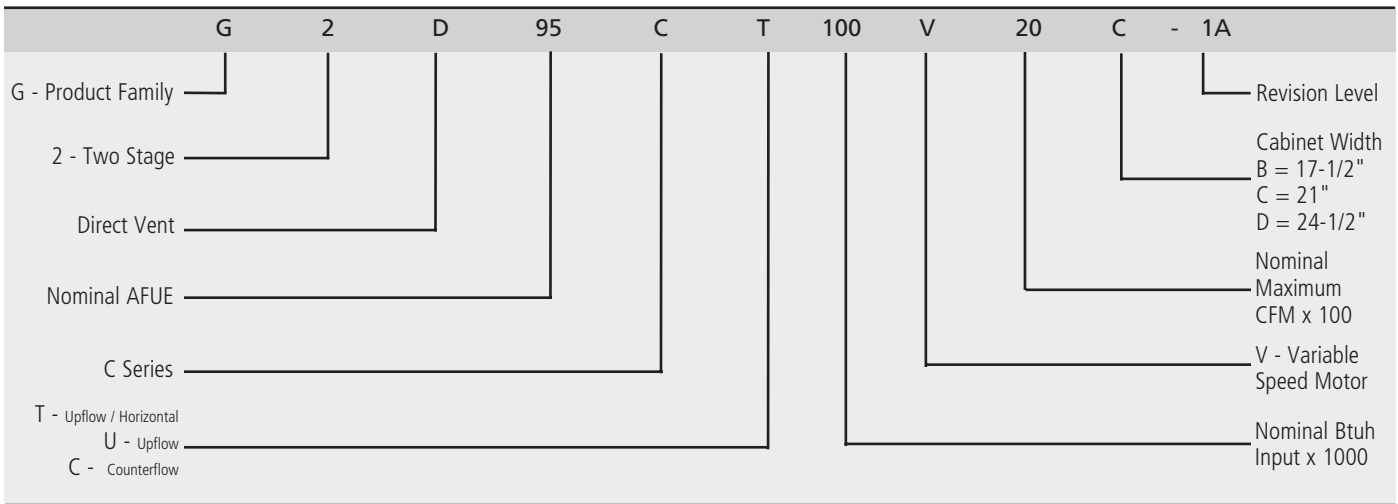
INSTALLATION FEATURES

- Left or right gas and electric entry
- Laser cut base for easy removal of knockout for bottom return applications

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 (ICUS)	Nom. Cooling Capacity	Gas Inlet (in.)	Volts/ Hz/ Phase	Min. Time Delay Breaker or Fuse	Nominal F.L.A.	Trans. (V.A.)	Approx. Weight (lbs.)
	Input	Output	Input	Output								
G2D95C(T,C)040V12B	28,000	26,600	40,000	38,000	95.0%	1.5 - 3.0	1/2	120/60/1	15	5.3	40	170
G2D95C(T,C)060V14B	42,000	39,900	60,000	57,000	95.0%	1.5 - 3.5	1/2	120/60/1	15	5.3	40	195
G2D95C(T,C)080V16C	56,000	53,280	80,000	76,000	95.0%	2.5 - 4.0	1/2	120/60/1	15	5.3	40	205
G2D95C(T,C)080V20C	56,000	53,280	80,000	76,000	95.0%	3.5 - 5.0	1/2	120/60/1	15	6.8	40	210
G2D95C(T,C)100V20	70,000	66,500	100,000	95,000	95.0%	3.5 - 5.0	1/2	120/60/1	15	6.8	40	230
G2D95C(T,C)125V20	87,500	82,250	125,000	117,500	94.0%	3.5 - 5.0	1/2	120/60/1	15	6.8	40	230
G2D95CU125V20D*	87,500	82,250	125,000	117,500	94.0%	3.5 - 5.0	1/2	120/60/1	15	6.8	40	235

* Available in Upflow only

Filter Requirement Data

Airflow Descriptor	Disposable Filters	Cleanable Filters
	Minimum Area (sq. in.)	Minimum Area (sq.in.)
12	576	288
14	672	336
16	768	384
20	960	480

1. The Airflow Descriptor is the two digits following the "V" in the model number; e.g. "20" is the Airflow Descriptor for G2D95C(T,C)080V20C.

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

Accessories

Kit Number	Description	Used with
ABASE512	Combustible Floor Base for 17.5 inch wide units	All Counterflow Models
ABASE568	Combustible Floor Base for 21 inch wide units	All Counterflow Models
ABASE569	Combustible Floor Base for 24.5 inch wide units	All Counterflow Models
ALPKT583-1	Propane Conversion Kit	All Two-Stage Models
ACVK2-1	Concentric Vent Kit	All Models
AFUSE576	Fuse Kit	All Models
AMB20A-2*	Filter Kit	All Upflow Models

* filter in kit rated at 2000 CFM

Blower Performance Data

Direction	Model	Motor Size (hp)	Blower Size	Temp Rise (°F)	Blower Speed Tap	Heating CFM		Cooling Adjustment	Cooling CFM @ .50 in W.C. ext. static pressure			
						Low Fire	High Fire		Setting "A"	Setting "B"	Setting "C"	Setting "D"
Upflow / Horizontal, Counterflow	G2D95C(T,C)040V12B	1/2	10 x 8	40 - 50	---	---	---	Nom.	1185	980	775	565
					---	---	---	(+)	1350	1125	905	670
					---	---	---	(-)	1005	815	655	500
					A Tap Setting*	575	865	---	---	---	---	---
	G2D95C(T,C)060V14B	1/2	10 x 8	50 - 60	---			Nom.	1405	1235	1040	815
					---			(+)	1615	1410	1185	960
					---			(-)	1230	1055	870	690
					A Tap Setting*	650	1020	---	---	---	---	---
	G2D95C(T,C)080V16C	3/4	12 x 10	50 - 60	---			Nom.	1600	1415	1215	1005
					---			(+)	1850	1610	1395	1150
					---			(-)	1360	1190	1020	890
					A Tap Setting*	950	1490	---	---	---	---	---
	G2D95C(T,C)080V20	1	12 x 10	50 - 60	---	---	---	Nom.	1985	1780	1590	1330
					---	---	---	(+)	2180	2045	1785	1590
					---	---	---	(-)	1690	1495	1305	1105
					C, D Tap Setting*	950	1385	---	---	---	---	---
Upflow / Horizontal	G2D95CT100V20C	1	12 x 10	50 - 60	---	---	---	Nom.	1935	1765	1560	1355
					---	---	---	(+)	2210	1985	1790	1560
					---	---	---	(-)	1645	1485	1315	1170
					B Tap Setting*	1105	1630	---	---	---	---	---
	G2D95CT125V20C	1	12 x 10	50 - 60	---	---	---	Nom.	1935	1765	1560	1355
					---	---	---	(+)	2210	1985	1790	1560
					---	---	---	(-)	1645	1485	1315	1170
					A Tap Setting*	1450	2115	---	---	---	---	---
Upflow only	G2D95CU125V20D**	1	12 x 10	50 - 60	---	---	---	Nom.	2045	1840	1630	1400
					---	---	---	(+)	2280	2100	1860	1595
					---	---	---	(-)	1735	1570	1355	1190
					A Tap Setting*	1450	2115	---	---	---	---	---
Counterflow	G2D95CC100V20D	1	12 x 10	50-60	---	---	---	Nom.	1890	1705	1490	1270
					---	---	---	(+)	2205	1970	1745	1495
					---	---	---	(-)	1600	1410	1225	1080
					B Tap Setting*	1105	1630	---	---	---	---	---
	G2D95CC125V20D	1	12 x 10	50-60	---	---	---	Nom.	1890	1705	1490	1270
					---	---	---	(+)	2205	1970	1745	1495
					---	---	---	(-)	1600	1410	1225	1080
					A Tap Setting*	1450	2115	---	---	---	---	---

* Speed tap for temperature rise within rise range. ** Available in upflow only

Vent Length Specifications - Maximum

Model	Pipe Size (in.)		
	2	2-1/2	3
G2D95C(T,C)040	60ft	90ft	90ft
G2D95C(T,C)060	60ft	90ft	90ft
G2D95C(T,C)080	40ft	60ft	90ft
G2D95C(T,C)100	40ft	60ft	90ft
G2D95C(T,C)125	NR	50ft	60ft
*G2D95CU125	NR	50ft	60ft

One 90° elbow equals 5 ft. of pipe. Preferred fittings are DWV (Drain, Waste, Vent) or long sweep. Minimum length 5 ft. and 1 elbow not including the vent and air intake terminals.

* Available in upflow only

3" diameter recommended for altitudes above 5000 ft.

Upflow

Clearances To Combustibles (in.)

Model	Top	Right Side	Left Side	Front	Back	Vent
G2D95CT040V12B	1	0	0	2	0	0
G2D95CT060V12B						
G2D95CT080V16C						
G2D95CT080V20C						
G2D95CT100V20						
G2D95CT125V20						
G2D95CU125V20D*						

* Available in upflow only

Horizontal

Clearances To Combustibles (in.)

Model	Top	Right Side	Left Side	Front	Back	Vent
G2D95CT040V12B	0	0	0	18	0	0
G2D95CT060V12B						
G2D95CT080V16C						
G2D95CT080V20C						
G2D95CT100V20C						
G2D95CT125V20C						

Counterflow

Clearances To Combustibles (in.)

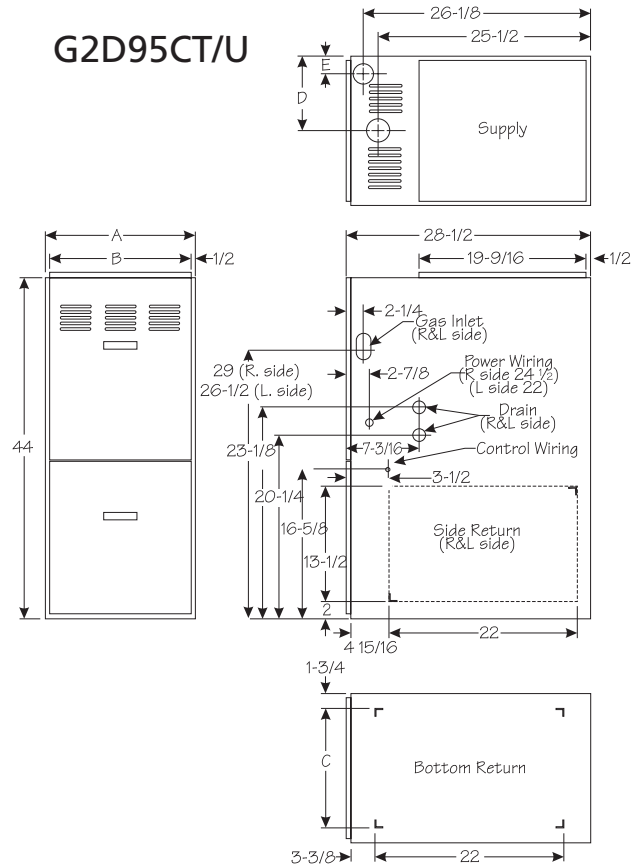
Model	Top	Side	Front	Back	Vent
G2D95CC040V12B	1	0	2	0	0
G2D95CC060V14B					
G2D95CC080V16C					
G2D95CC080V20D					
G2D95CC100V20D					
G2D95CC125V20D					

Dimensions (in.) Upflow/ Horizontal

Model	A	B	C	D	E
G2D95CT040V12B	17-1/2	16-1/2	14	10-1/8	2
G2D95CT060V14B	17-1/2	16-1/2	14	11-3/4	2
G2D95CT080V16C	21	20	17-1/2	15	2
G2D95CT080V20C					
G2D95CT100V20C	21	20	17-1/2	16-1/2	1-1/2
G2D95CT125V20C					
G2D95CU125V20D*	24-1/2	23-1/2	21	18	2

* Available in upflow only

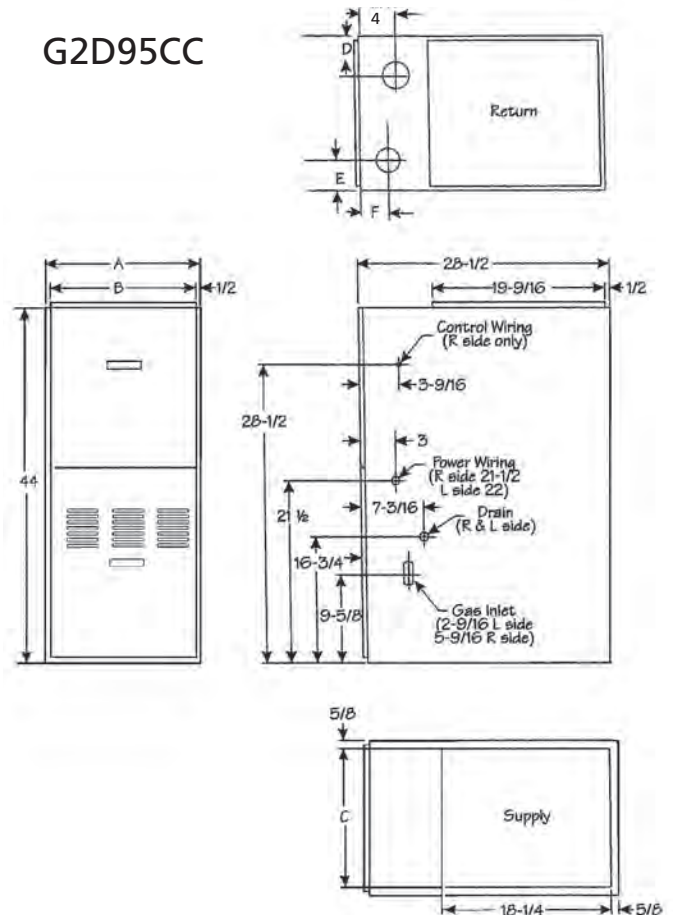
G2D95CT/U



Dimensions (in.) Downflow

Model	A	B	C	D	E	F
G2D95CC040V12B	17-1/2	16-1/2	16-1/4	3-2/3	4-1/2	3
G2D95CC060V14B						
G2D95CC080V16C	21	20	19-3/4	5-2/3	6-1/4	3
G2D95CC080V20C						
G2D95CC100V20D	24-1/2	23-1/2	23-1/4	4-2/3	6-3/8	3-1/3
G2D95CC125V20D						

G2D95CC



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



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