



## HEAT EXCHANGER

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

## CABINET

- Compact 40" height
- Insulated to increase efficiency and reduce sound levels
- Unitized construction for cabinet integrity
- Prepainted steel with baked polyester paint for maximum durability

## BLOWER

- Isolated and insulated compartment to reduce sound levels
- Easily removable slide-out design
- Four-speed for wide airflow range
- PSC permanently lubricated motors for low maintenance and optimum efficiency
- Dynamically balanced blower with robust belly band mount for smooth and quiet operation

## BURNERS

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

## CONTROLS

- Honeywell V8200 two stage gas valve
- Integrated two stage ignition and fan control board
- Control board features self diagnostics saving last five (5) fault codes in non-volatile memory for ease of service
- Provides reverse polarity identification
- Hot surface ignition using 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
- Control board provides terminals for electronic air cleaner, humidifier, furnace twinning, and continuous low speed fan operations
- Control circuit is fuse protected
- 40 VA transformer
- Color coded control wiring
- Single or two stage thermostat ready with selectable timings

## VENTING

- Draft motor with stainless steel shaft and chrome alloy roller bearings for long life
- Direct vent capable - one or two pipe
- Outside combustion air optional

## INSTALLATION

- Left or right gas and electrical entry
- Knock out base for bottom return
- All models comply with California Energy Commission Low NOx regulations

## ACCESSORIES

- Propane conversion kit
- Combustible floor base
- Counterflow filter kit
- "Flush fit" coils

# 80% Two-Stage Gas Furnace Counterflow / Horizontal

## WGFAR



**All Models are Lo-NOx**

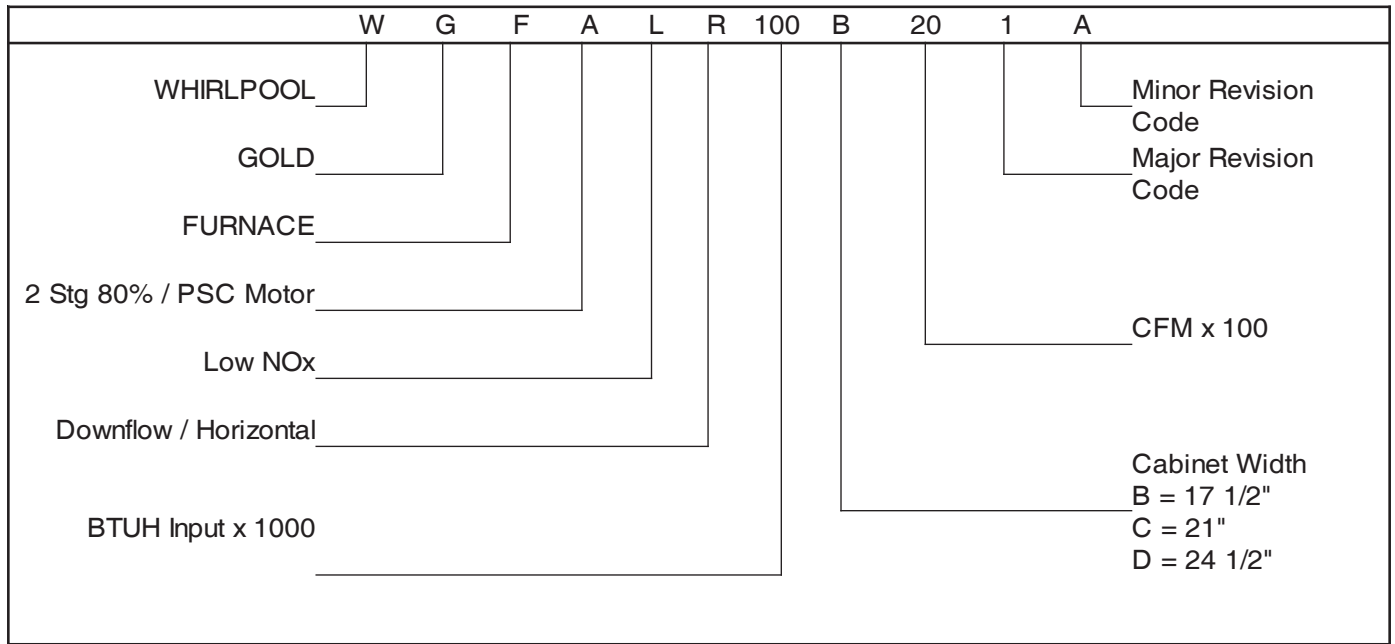
**Limited lifetime heat exchanger  
warranty for direct vent applications**

**20 year limited heat exchanger  
warranty for all other applications**

**5 year limited on all parts  
Extended warranty available**



# Model Number Guide



## Physical and Electrical Data

Model	First Stage		Second Stage		AFUE	Nom. Cooling Cap.	Gas Inlet (in.)	Flue Size (in.)	Volts/Hz/Phase	Min. Time Delay Breaker or Fuse	Nominal F.L.A.	Trans. (V.A.)	Weight (lbs.)
	Input (Btuh)	Output (Btuh)	Input (Btuh)	Output (Btuh)									
WGFAR050B12	50,000	40,000	35,000	28,000	80	1.5-3.0	1/2	4	120/60/1	15	5.8	40	125
WGFAR075B14	75,000	60,000	52,500	42,000	80	2.0-3.5	1/2	4	120/60/1	15	7.7	40	140
WGFAR100B14	100,000	80,000	70,000	56,000	80	2.0-3.5	1/2	5	120/60/1	15	7.3	40	155
WGFAR100C20	100,000	80,000	70,000	56,000	80	3.0-5.0	1/2	5	120/60/1	15	11.7	40	180
WGFAR125C20	125,000	100,000	87,500	70,000	80	3.0-5.0	1/2	5	120/60/1	15	11.5	40	190
WGFAR150D20	150,000	120,000	105,000	84,000	80	3.0-5.0	1/2	5	120/60/1	15	11.0	40	200

## Filter Requirement Data

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 "C" in the model number; e.g. "20" is the Airflow Descriptor for WGFAR100D20.

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.

# Blower Performance Data

Model	Motor Size (hp)	Blower Size	Temp. Rise (°F)	Blower Speed	*CFM @ ext. Static Pressure - in. w.c. with Filter(s)							
					.20	.30	.40	.50	.60	.70	.80	.90
WGFAR050B12	1/3	10 x 6	30-60	Hi	1,379	1,349	1,301	1,238	1,186	1,111	1,043	971
				Med/Hi	1,118	1,106	1,080	1,058	1,025	971	918	842
				Med	906	897	881	860	840	797	763	705
				Low	759	753	733	719	699	668	624	557
WGFAR075B14	1/3	10 x 8	40-70	Hi	1,692	1,618	1,541	1,456	1,380	1,285	1,155	1,069
				Med/Hi	1,454	1,420	1,365	1,296	1,230	1,154	1,078	950
				Med	1,164	1,145	1,128	1,086	1,046	976	905	790
				Low	987	972	960	927	881	843	790	679
WGFAR100B14	1/3	10 x 8	50-80	Hi	1,727	1,658	1,603	1,502	1,432	1,344	1,210	1,116
				Med/Hi	1,141	1,429	1,404	1,344	1,262	1,192	1,095	997
				Med	1,162	1,187	1,135	1,102	1,064	1,008	948	843
				Low	985	978	976	948	907	846	790	697
WGFAR100C20	3/4	12 x 10	45-75	Hi	2,167	2,141	2,091	2,053	1,998	1,926	1,903	1,816
				Med/Hi	1,784	1,757	1,724	1,700	1,668	1,599	1,527	1,408
				Med	1,582	1,544	1,535	1,516	1,459	1,407	1,316	1,137
				Med/Low	1,324	1,303	1,275	1,231	1,197	1,134	1,027	971
				Low	1,015	997	956	907	843	786	688	652
WGFAR125C20	3/4	12 x 10	45-75	Hi	2,174	2,148	2,095	2,019	1,953	1,877	1,772	1,641
				Med/Hi	1,829	1,816	1,775	1,739	1,686	1,931	1,547	1,388
				Med	1,618	1,601	1,563	1,524	1,520	1,400	1,320	1,115
				Med/Low	1,338	1,314	1,290	1,256	1,212	1,139	1,022	963
				Low	1,029	996	961	908	870	800	743	651
WGFAR150D20	3/4	12 x 10	55-85	Hi	2,092	2,082	2,057	2,020	1,975	1,913	1,835	1,762
				Med/Hi	1,772	1,756	1,732	1,704	1,661	1,622	1,555	1,485
				Med	1,550	1,538	1,522	1,496	1,461	1,413	1,364	1,292
				Med/Low	1,326	1,304	1,286	1,244	1,215	1,162	1,041	979
				Low	1,038	1,000	969	905	854	812	757	682

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

## Accessories

Kit Number	Description	Used with
ALPKT582-1	Propane Conversion Kit	All WGFALR Models
ABASE511-1	Combustible Floor Base for 14.5 inch wide units	All Counterflows
ABASE512-1	Combustible Floor Base for 17.5 inch wide units	All Counterflows
ABASE568-1	Combustible Floor Base for 21 inch wide units	All Counterflows
ABASE569-1	Combustible Floor Base for 24.5 inch wide units	All Counterflows
AFILT525-1	Counterflow Filter Kit	All Counterflows
AFUSE576	Fuse Kit	All WGFA* Models

## Dimensions (in.)

Model	A	B	C	D	E	F
WGFAR050B12	17 1/2	16 1/2	16 1/4	6 1/2	5	3
WGFAR075B14						
WGFAR100B14	17 1/2	16 1/2	16 1/4	6 1/2	3 1/4	4 1/2
WGFAR100C20	21	20	19 3/4	8 1/4	6 1/8	3 7/8
WGFAR125C20	21	20	19 3/4	8 1/4	4 5/8	3 7/8
WGFAR150D20	24 1/2	23 1/2	23 1/4	10	4 5/8	4

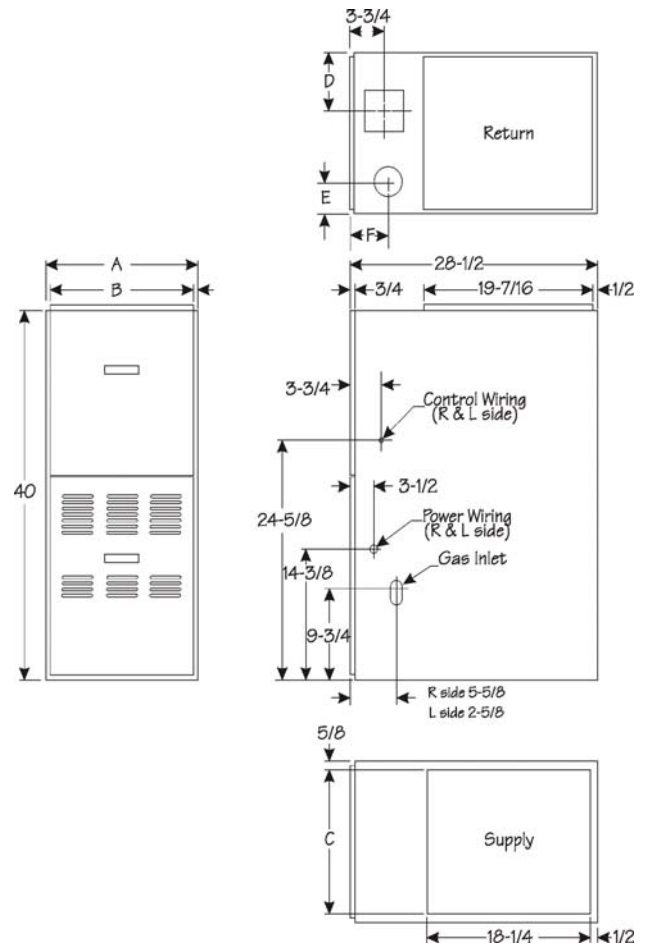
## Clearances (in.) Counterflow

Model	Top	Right Side	Left Side	Front	Back	Vent
WGFAR050B12	1	0	2 <sup>1</sup>	4 <sup>3</sup>	0	6 <sup>2</sup>
WGFAR075B14						
WGFAR100B14						
WGFAR100C20	1	0	0	4 <sup>3</sup>	0	6 <sup>2</sup>
WGFAR125C20	1	0	0	4 <sup>3</sup>	0	6 <sup>2</sup>
WGFAR150D20						

<sup>1</sup> 0" if B1 vent is used

<sup>2</sup> 1" if B1 vent is used

<sup>3</sup> 2" if B1 vent is used



## Horizontal

Model	Right Side	Left Side	Front	Back	Vent	Airflow			
						L to R		R to L	
						Top	Bottom	Top	Bottom
WGFAR050B12	1	1	18	0	6 <sup>2</sup>	1	2 <sup>1</sup>	1	2 <sup>1</sup>
WGFAR075B14									
WGFAR100B14									
WGFAR100C20	1	1	18	0	6 <sup>2</sup>	1	0	1	0
WGFAR125C20									
WGFAR150D20									

<sup>1</sup> 0" if B1 vent is used

<sup>2</sup> 1" if B1 vent is used

## NOTES



All specifications are subject to change without notice.

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