

## FG6T(A,K) Series

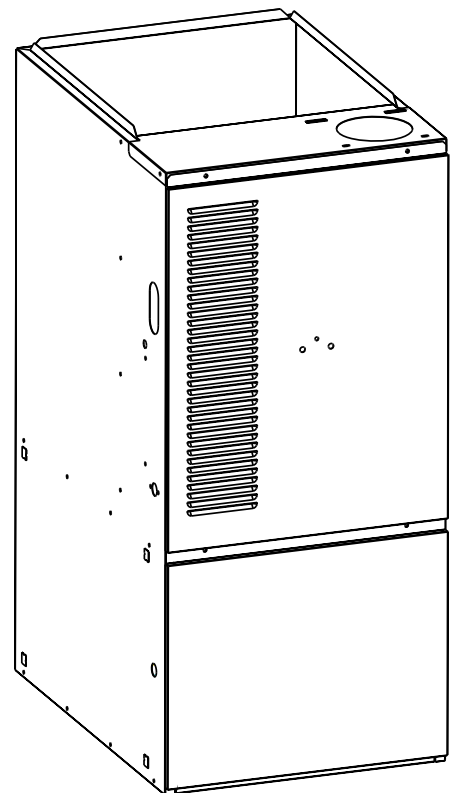
### High Efficiency 2-Stage Gas Furnace

**80+ Upflow/Horizontal**  
**80+ Downflow**

The high efficiency 2-Stage gas furnace may be installed free standing in a utility room, basement, or enclosed in an alcove or closet. The upflow model converts easily to horizontal application. The extended flush jacket provides a pleasing “appliance appearance.” Design certified by CSA International (Canadian Standards Association).

### Features and Benefits

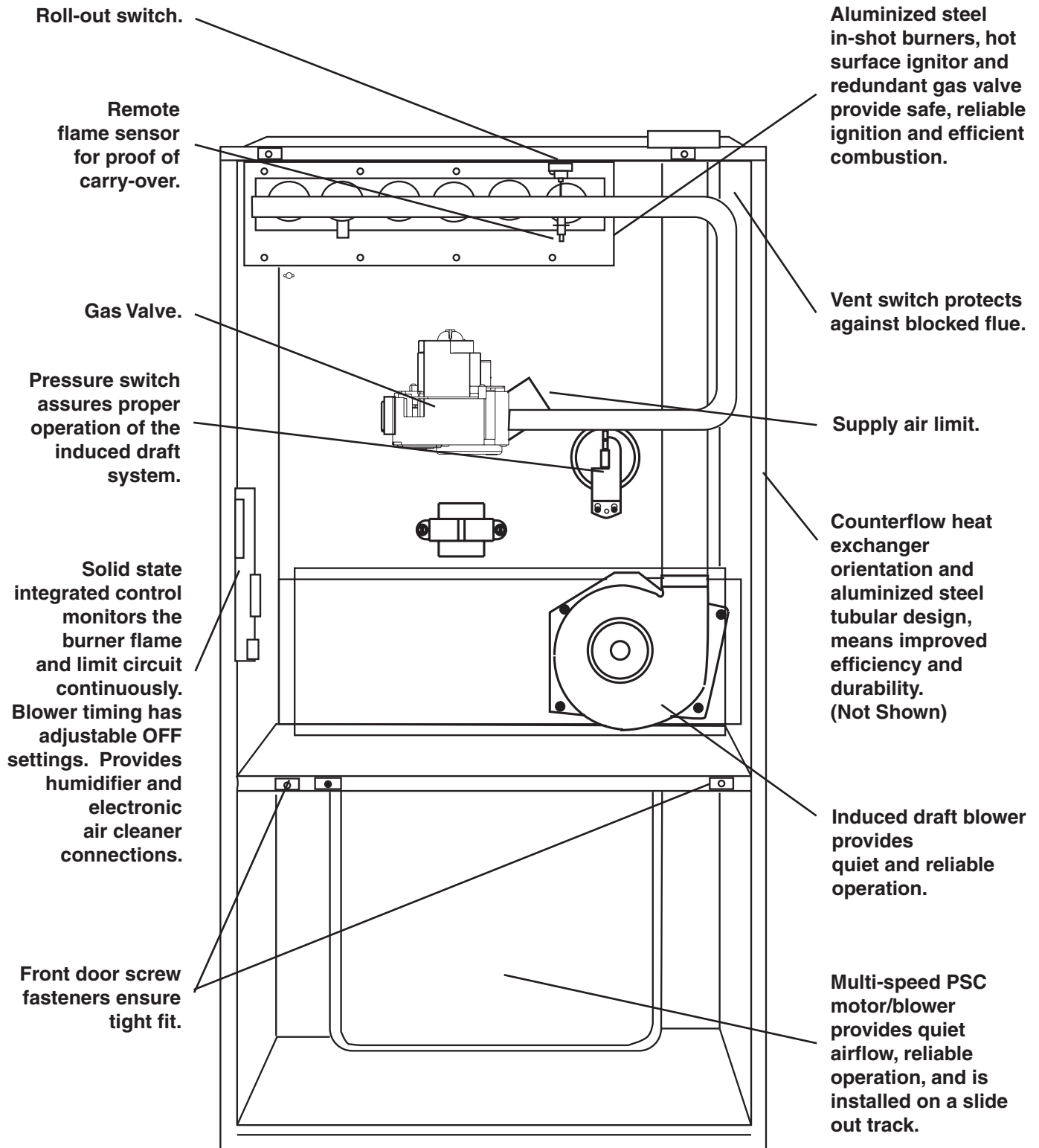
- **Best warranty in the business** –
  - A 20 year warranty on the heat exchanger
  - 8 Year Limited Parts and 5 Year Quality Pledge
- **100% fired and tested** – All units and each component (both mechanical and electrical) are tested on the manufacturing line.
- **Best packaging in the industry** – Unique design assures product will arrive to the homeowner dent free.
- **Clean, quiet, and efficient operation** – Due to the unique design of in-shot burners, location of inducer, use of insulation, and operating at low fire using less fuel than single capacity furnaces.
- **Fixed 30 second blower delay** at burner start-up assures a warm duct temperature at furnace start-up.
- **Fixed 30-second inducer post purge** increases life of heat exchanger.
- **Dependable, hot surface ignitor** – Innovative application of an appliance type ignitor with a 20-year history of reliability, assures no call-backs because of handling.
- **Color coded wire harness** – Designed to fit the components, all with quick-connect fittings for ease of service and replacement.
- **Reliable heat exchanger** – Aluminized primary heat exchanger assures long life.
- **40-second fixed cooling cycle blower-off delay (TDR)** increases cooling performance when matched with a NORDYNE coil.
- **Approved for category I and III venting systems** – May be common, dedicated or horizontally vented for maximum flexibility in installation.
- **LP convertible** – Simple burner orifice and regulator spring change for ease of convertibility.
- **Diagnostic light flashes identify limit failure, pressure switch failure and improper ground and polarization** – for easy troubleshooting.
- **Incorporates integrated control board** with connections for electronic air cleaner, humidifier and twinning.
- **Two piece door design** enhances furnace appearance and uses screw fasteners for great fit and accessibility.
- **3 amp fuse** protection against low voltage shorts; protects transformer and control board.
- **Low voltage terminal board** for easy field wiring.



Upflow/  
Horizontal  
Gas  
Furnace  
Shown

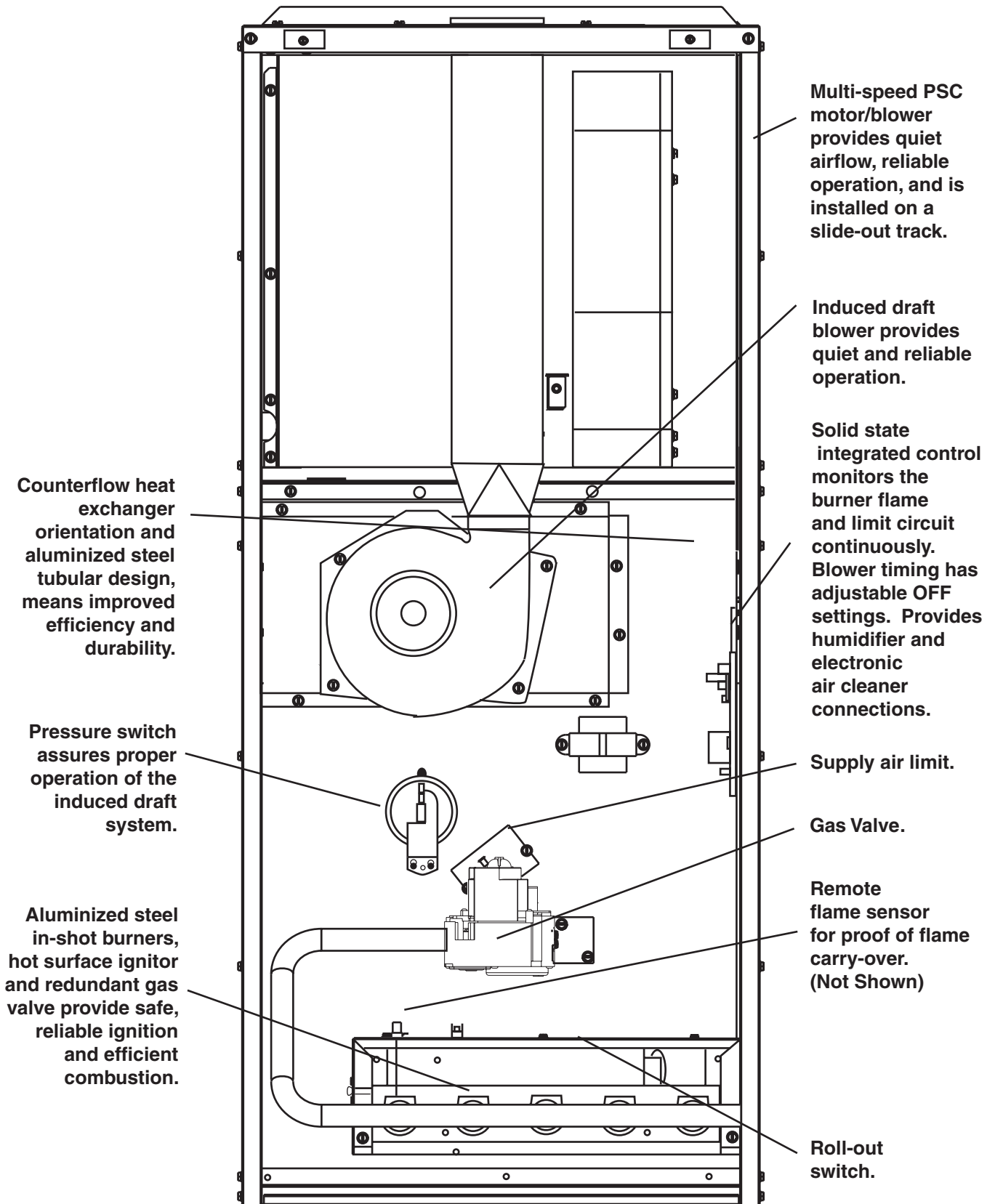
# FEATURES

## High Efficiency Upflow 80+ Gas Furnace



# FEATURES

## High Efficiency Downflow 80+ Gas Furnace



## STANDARD EQUIPMENT

Direct vent; draft inducer; pressure switch; redundant main gas control; hot-surface ignition; timed ON/OFF blower controls (TDR); 40VA transformer for air conditioner application; limit controls; direct drive motor; all models can be converted to use L.P. (propane) gas. Factory approved kits *only* must be used and are available as an optional accessory from your NORDYNE distributor.

## SPECIFICATIONS

	060(C,N)-08A	060(C,N)-12A	072(C,N)-12B	072(C,N)-16B	096(C,N)-12B	096(C,N)-16B	096(C,N)-20B	120(C,N)-16C	120(C,N)-20C
High Fire Rated Input(Btu/h) (a)	60,000	60,000	72,000	72,000	96,000	96,000	96,000	120,000	120,000
High Fire Heating Capacity(Btu/h)	48,000	48,000	57,600	57,600	77,000	77,000	77,000	96,000	96,000
Low Fire Rated Input(Btu/h) (a)	42,000	42,000	50,000	50,000	67,000	67,000	67,000	84,000	84,000
Low Fire Heating Capacity(Btu/h)	34,000	34,000	40,000	40,000	54,000	54,000	54,000	67,000	67,000
<b>AFUE</b>	<b>80+</b>	<b>80+</b>	<b>80+</b>	<b>80+</b>	<b>80+</b>	<b>80+</b>	<b>80+</b>	<b>80+</b>	<b>80+</b>
Maximum Heating Ext. St. Press.(in WC)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Blower Wheel D x W	10 x 6	10 x 6	9 x 9	10 x 10	9 x 9	10 x 10	11 x 10	10 x 10	11 x 10
Motor H.P. Speed - Type	1/3 - 3 - PSC	1/3 - 3 - PSC	1/3 - 3 - PSC	1/2 - 4 - PSC	1/3 - 4 PSC	1/2 - 4 - PSC	3/4 - 4 - PSC	1/2 - 4 - PSC	3/4 - 4 - PSC
High Fire Temperature Rise Range(F)	30 - 60	30 - 60	30 - 60	45 - 75	45 - 75	40 - 75	35 - 65	45 - 75	40 - 70
Low Fire Temperature Rise Range(F)	25 - 55	25 - 55	25 - 55	35 - 65	35 - 65	25 - 55	25 - 55	35 - 65	25 - 55

	060(C,N)-08A	060(C,N)-12A	072(C,N)-12B	072(C,N)-16B	096(C,N)-12B	096(C,N)-16B	096(C,N)-20B	120(C,N)-16B	120(C,N)-20B
High Fire Rated Input(Btu/h) (a)	60,000	60,000	72,000	72,000	96,000	96,000	96,000	120,000	120,000
High Fire Heating Capacity(Btu/h)	48,000	48,000	57,600	57,600	77,000	77,000	77,000	96,000	96,000
Low Fire Rated Input(Btu/h) (a)	42,000	42,000	50,000	50,000	67,000	67,000	67,000	84,000	84,000
Low Fire Heating Capacity(Btu/h)	34,000	34,000	40,000	40,000	54,000	54,000	54,000	67,000	67,000
<b>AFUE</b>	<b>80+</b>	<b>80+</b>	<b>80+</b>	<b>80+</b>	<b>80+</b>	<b>80+</b>	<b>80+</b>	<b>80+</b>	<b>80+</b>
Maximum Heating Ext. St. Press.(in WC)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Blower Wheel D x W	10 x 6	10 x 6	9 x 9	10 x 10	10 x 10	10 x 10	11 x 10	10 x 10	11 x 10
Motor H.P. Speed - Type	1/3 - 3 - PSC	1/3 - 3 - PSC	1/3 - 3 - PSC	1/2 - 4 - PSC	1/2 - 4 PSC	1/2 - 4 - PSC	3/4 - 4 - PSC	1/2 - 4 - PSC	3/4 - 4 - PSC
High Fire Temperature Rise Range(F)	25 - 55	25 - 55	25 - 55	30 - 60	40 - 70	40 - 70	35 - 65	50 - 80	45 - 75
Low Fire Temperature Rise Range(F)	25 - 55	25 - 55	20 - 50	25 - 55	25 - 55	25 - 55	25 - 55	30 - 60	35 - 65

Note: All models are 115V, 60 Hz.

Gas Connections are 1/2" N.P.T. AFUE = Annual Fuel Utilization Efficiency.

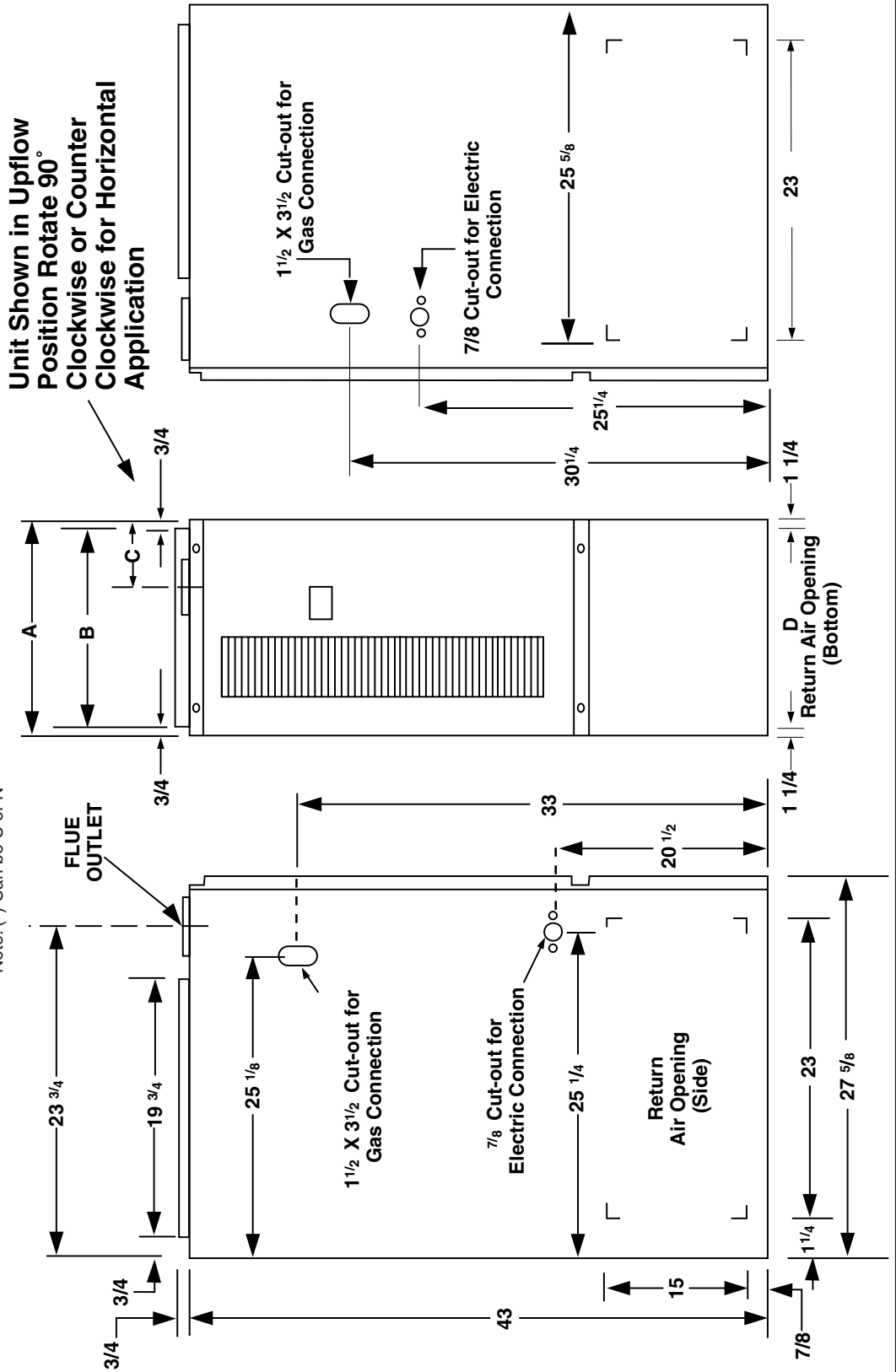
(a) Ratings to 2,000 feet. Over 2,000 feet, reduce 4% for each 1,000 ft. above sea level.

# DIMENSIONS

## Upflow/Horizontal Furnace

Model	FURNACE DIMENSIONS AND SHIPPING WEIGHTS							
	High Input (Btu/h)	Low Input (Btu/h)	Dimensions (in.)	Shipping Weight (lbs)				
*TA	A	B	C	D				
060(*)-08A	60,000	42,000	14 1/4	12 3/4	3 1/4	4	120	11 3/4
060(*)-12A	60,000	42,000	14 1/4	12 3/4	3 1/4	4	132	11 3/4
072(*)-12	72,000	50,000	19 3/4	18 1/4	3 3/4	4	135	11 3/4
072(*)-16	72,000	50,000	19 3/4	18 1/4	3 3/4	4	152	11 3/4
096(*)-12	96,000	67,000	19 3/4	18 1/4	3 3/4	4	135	11 3/4
096(*)-16	96,000	67,000	19 3/4	18 1/4	3 3/4	4	152	11 3/4
096(*)-20	96,000	67,000	19 3/4	18 1/4	3 3/4	4	174	11 3/4
120(*)-16C	120,000	84,000	22 1/2	21	3 3/4	4	174	20
120(*)-20C	120,000	84,000	22 1/2	21	3 3/4	4	182	20

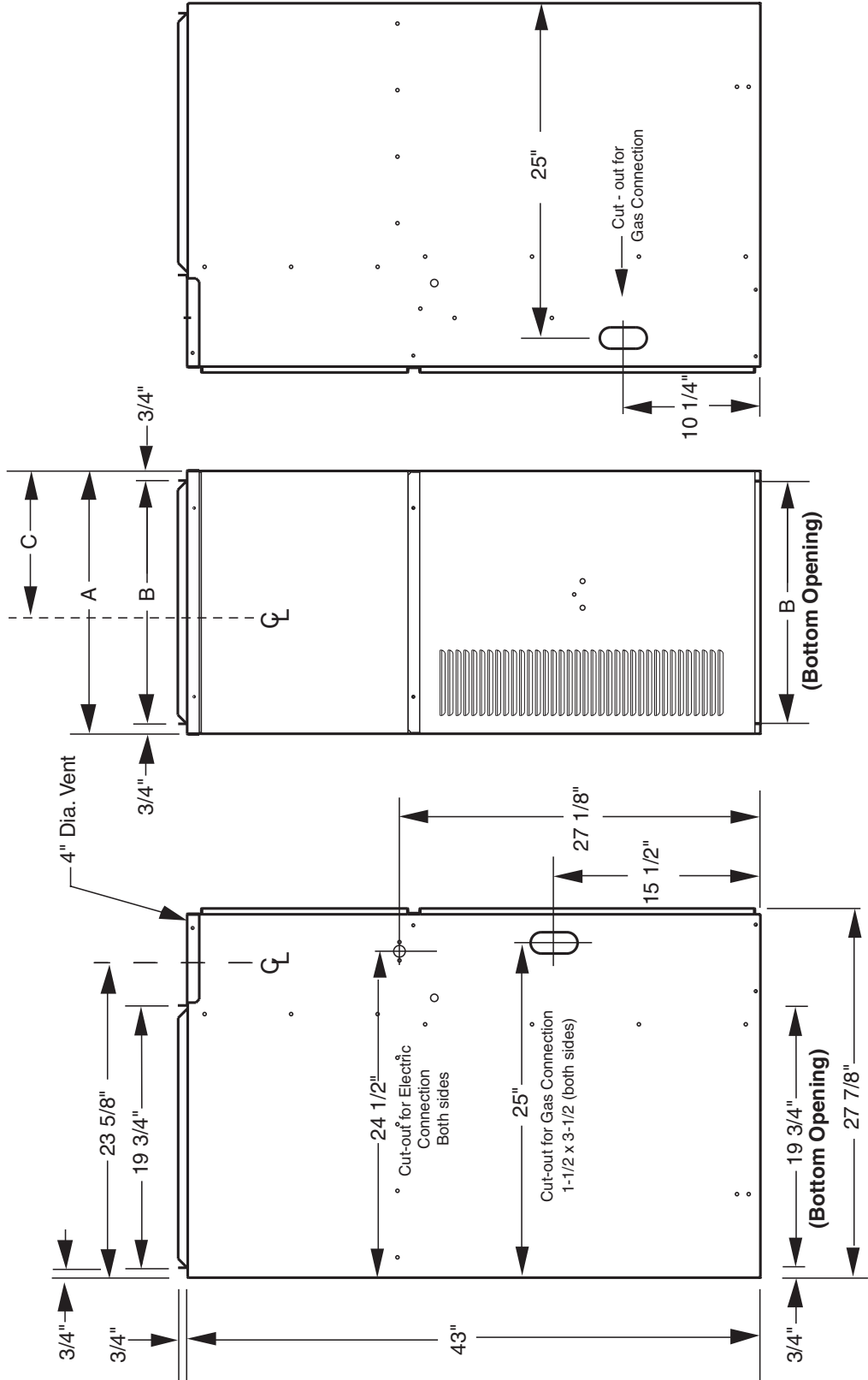
Note: (\*) Can be C or N



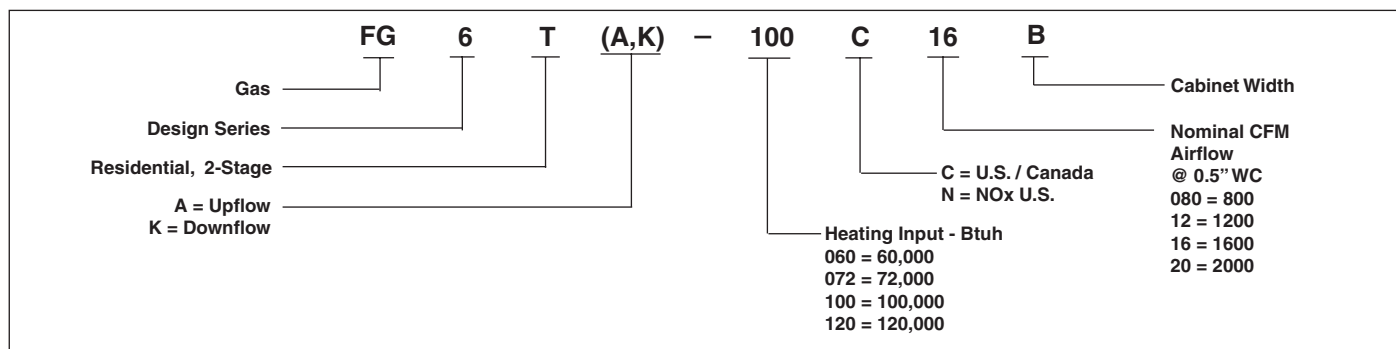
Downflow Furnace

Model	High		Low			Shipping		
	Input (Btuh)	Input (in.)	A (in.)	B (in.)	C (in.)	Flue Outlet (in.)	Flue Outlet (in.)	Weight (lbs)
060(*)-08A	60,000	14 1/4	12 3/4	5 1/2	4	4	4	120
060(*)-12A	60,000	14 1/4	12 3/4	5 1/2	4	4	4	132
072(*)-12	72,000	50,000	19 3/4	18 1/4	11	4	4	135
072(*)-16	72,000	50,000	19 3/4	18 1/4	11	4	4	152
096(*)-12	96,000	67,000	19 3/4	18 1/4	11	4	4	135
096(*)-16	96,000	67,000	19 3/4	18 1/4	11	4	4	152
096(*)-20	96,000	67,000	19 3/4	18 1/4	11	4	4	174
120(*)-16C	120,000	84,000	19 3/4	18 1/4	11	4	4	174
120(*)-20C	120,000	84,000	19 3/4	18 1/4	11	4	4	182

Note: (\*) Can be C or N



## MODEL IDENTIFICATION CODE



## HORIZONTAL VENTING

These furnaces are approved to use with 3" single wall Z-AL29-4C stainless steel vent pipe in horizontal vent applications. The pipe is available from the following manufacturers:

**Z-Flex Inc.** - vent brand name (**Z-VENT**)

**Heat-fab Inc.** - vent brand name (**Saf-T Vent**)

**Flex-L International** - vent brand name (**STAR-34 Vent**)

When venting horizontal, this is a Category III furnace, the vent pressure is positive, and the venting system must be sealed in both horizontal and vertical runs.

Furnace Input	Pipe Size	Reducer Needed	Maximum # Elbows	Max. Feet Vent Pipe
60,000	3"	4" to 3"	4	35
72,000	3"	4" to 3"	4	35
96,000	3"	4" to 3"	4	35
120,000	3"	4" to 3"	4	30

## ACCESSORIES

Kit	Order Number
U.S. LP Conversion Kit (0 to 10,000 ft.)	904404
Canadian LP Gas Conversion Kit (0 to 4,500 ft.)	904405
Fossil Fuel Kit	914762
Side Return Filter Kit	541036
Bottom Return Filter (20/Box)	A Cabinet: 903088 B Cabinet: 903089 C Cabinet: 903090
Internal Side Return Filter Wire	903152
Counterflow "A" Combustion Floor Base	902974
Counterflow "B" Combustion Floor Base	902677
Counterflow "C" Combustion Floor Base	904108

## VENTING

All models are approved for vertical or horizontal venting applications (See table above). All models may be common vented with a gas water heater. Type B gas vent materials may be used when connected to a gravity (vertical) vent system. The installation must be in accordance with the venting instructions supplied with the furnace.

## ELECTRICAL DATA

Furnace Model Number *TA,*TK	Furnace Input (Btu/hr)	Cabinet Width (in.)	Nominal Electrical Supply	Maximum Operating Voltage	Minimum Operating Voltage	Maximum Furnace Amperes	Minimum Wire Gauge	Maximum Fuse or Circuit Breaker Amps**
060(t)-08A	60,000	14.25	115-60-1	127	103	7.1	14	15
060(t)-12A	60,000	14.25	115-60-1	127	103	7.1	14	15
072(t)-12B	72,000	19.75	115-60-1	127	103	7.1	14	15
072(t)-16B	72,000	19.75	115-60-1	127	103	9.0	14	15
096(t)-12B	96,000	19.75	115-60-1	127	103	7.1	14	15
096(t)-16B	96,000	19.75	115-60-1	127	103	9.0	14	15
096(t)-20B	96,000	19.75	115-60-1	127	103	14.5	12	20
120(t)-16B	120,000	19.75	115-60-1	127	103	9.0	14	15
120(t)-20B	120,000	19.75	115-60-1	127	103	14.5	12	20
120(t)-16C	120,000	22.50	115-60-1	127	103	9.0	14	15
120(t)-20C	120,000	22.50	115-60-1	127	103	12.2	12	20

Note: (t) can be C or N.

\*\*Time-delay fuses or HACR-type circuit breakers are required.

# CAPACITIES – Furnace Airflow Data

## 80+ UPFLOW/HORIZONTAL FURNACE MODELS

Model Number *TA	Heating Input (Btuh)	Motor Speed	Motor HP	External Static Pressure (Inches Water Column)															
				0.1		0.2		0.3		0.4		0.5		0.6		0.7		0.8	
				CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise
060-08A	60,000	High†	1/3	1360	34/21	1345	33/22	1310	32/22	1260	35/23	1205	37/24	1155	39/25	1095	40/27	1030	43/28
		Med*		1165	37/24	1155	38/25	1135	39/26	1095	40/27	1045	43/28	1010	44/29	955	46/31	880	51/33
		Low**		790	55/37	785	56/38	760	58/39	750	59/40	720	61/41	685	65/43	655	68/45	610	73/48
060-12A	60,000	High†	1/3	1360	34/21	1345	33/22	1310	32/22	1260	35/23	1205	37/24	1155	39/25	1095	40/27	1030	43/28
		Med*		1165	37/24	1155	38/25	1135	39/26	1095	40/27	1045	43/28	1010	44/29	955	46/31	880	51/33
		Low**		790	55/37	785	56/38	760	58/39	750	59/40	720	61/41	685	65/43	655	68/45	610	73/48
072-12B	72,000	High†	1/3	1645	32/21	1575	34/22	1490	36/24	1395	40/23	1305	41/27	1230	43/30	1030	52/35	815	64/43
		Med*		1410	38/25	1350	39/26	1280	42/28	1215	44/29	1130	47/32	1010	53/35	845	63/42	680	78/52
		Low**		1140	47/31	1105	48/32	1055	51/34	980	54/36	910	58/40	795	67/44	640	83/55	525	-/68
072-16B	72,000	High†	1/2	1870	28/18	1845	29/19	1790	30/20	1735	31/20	1665	32/21	1580	33/22	1500	35/23	1400	38/25
		Med-High		1480	36/24	1450	37/24	1420	38/25	1380	39/26	1325	40/27	1265	42/28	1190	45/30	1075	50/33
		Med-Low*		1030	52/34	1010	53/35	990	54/36	950	56/37	915	58/39	865	61/41	775	69/46	690	77/51
096-12B	96,000	High†	1/3	1495	50/30	1430	52/31	1360	55/32	1275	58/35	1210	61/37	1090	68/40	925	80/48	740	-/60
		Med*		1345	55/33	1300	57/34	1240	60/36	1185	63/38	1115	66/40	975	76/45	880	84/67	675	-/65
		Low**		970	76/46	940	78/47	920	80/48	860	86/51	780	95/57	690	-/65	575	-/77	455	-/81
096-16B	96,000	High†	1/2	1935	38/23	1895	39/24	1835	40/24	1775	42/25	1715	43/26	1640	45/28	1555	47/30	1440	51/31
		Med-High		1660	44/27	1635	45/27	1600	46/28	1565	47/28	1525	49/29	1465	50/30	1400	53/32	1335	55/33
		Med-Low*		1390	53/32	1375	54/32	1330	55/33	1320	56/33	1290	56/34	1245	57/35	1200	59/37	1110	66/40
096-20B	96,000	High†	3/4	1180	63/37	1165	64/38	1140	65/39	1120	66/40	1095	67/41	1060	69/42	1015	73/44	970	76/46
		Med-High		2310	31/18	2255	32/19	2205	33/20	2155	34/20	2070	35/21	2015	36/22	1920	36/23	1840	40/24
		Med-Low*		2040	36/21	2010	37/22	1960	38/23	1900	39/24	1875	40/25	1815	41/25	1755	42/26	1650	45/27
120-16C	120,000	High†	1/2	1760	42/25	1735	43/25	1710	43/26	1665	44/27	1620	45/27	1565	47/28	1495	49/30	1410	52/31
		Med-High		1285	57/35	1275	58/36	1250	59/37	1225	60/38	1180	63/38	1135	65/39	1085	68/40	1065	69/42
		Med-Low*		1980	45/27	1945	45/28	1910	46/28	1860	48/29	1795	50/30	1720	52/31	1640	54/33	1545	58/35
120-20C	120,000	High†	3/4	1675	52/31	1665	53/32	1640	54/32	1610	55/33	1565	57/34	1515	59/35	1460	61/37	1375	64/39
		Med-High		1410	63/37	1395	64/38	1380	65/39	1360	66/40	1340	67/41	1310	68/42	1260	70/43	1185	75/45
		Med-Low*		1205	-/44	1190	-/45	1175	-/45	1160	-/46	1140	-/47	1115	-/48	1085	-/49	1050	-/51
120-20C	120,000	High†	3/4	2400	37/22	2360	37/23	2310	38/24	2255	40/24	2200	41/24	2140	42/25	2070	43/26	1990	45/27
		Med-High		2105	41/25	2095	42/25	2075	43/25	2060	43/26	2015	44/27	1960	45/27	1910	46/28	1845	49/29
		Med-Low*		1750	51/31	1745	51/31	1740	52/31	1720	52/31	1710	52/31	1680	53/32	1645	54/32	1600	56/33
Low**	1520	59/33	1515	59/33	1510	60/34	1500	60/35	1490	61/36	1475	61/37	1450	61/37	1425	62/38			

### NOTES:

1. Airflow rates of 1800 CFM or more require two return air connections. Data is for operation with filter(s).
2. Temperature rises in the table are approximate. Actual temperature rises may vary.
3. Temperature rises and airflows for external static pressures greater than 0.5 are for reference only these conditions are not recommended.
4. Temperature rise is displayed as High Fire/Low Fire

† = Factory Set Cooling

\* = Factory Set High Fire Heating

\*\* = Factory Set Low Fire Heating

- = Not Factory Recommended

- = Temperature rise is displayed as High Fire/Low Fire



# CAPACITIES – Furnace Airflow Data continued

## 80+ DOWNFLOW FURNACE MODELS

Model Number *TK	Heating Input (Btuh)	Motor Speed	Motor HP	External Static Pressure (Inches Water Column)																							
				0.1		0.2		0.3		0.4		0.5		0.6		0.7		0.8									
				CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise	CFM	Rise						
060-08A	60,000	High†	1/3	1420	31/20	1380	32/21	1340	33/22	1300	34/23	1235	36/24	1185	37/25	1110	40/26	1045	42/28	1045	42/28						
		Med*		1215	36/23	1195	37/24	1175	38/25	1105	40/27	1050	42/28	995	45/29	960	46/31	960	46/31								
		Low**		820	54/36	815	54/36	810	55/37	800	55/37	770	57/38	745	59/40	715	62/41					665	67/45	665	67/45		
060-12A	60,000	High†	1/3	1420	31/20	1380	32/21	1340	33/22	1300	34/23	1235	36/24	1185	37/25	1110	40/26			1045	42/28	1045	42/28				
		Med*		1215	36/23	1195	37/24	1175	38/25	1105	40/27	1050	42/28	995	45/29	960	46/31	960	46/31								
		Low**		820	54/36	815	54/36	810	55/37	800	55/37	770	57/38	745	59/40	715	62/41			665	67/45			665	67/45		
072-12B	72,000	High†	1/3	1655	32/21	1500	34/24	1440	37/24	1355	40/26	1260	42/28	1155	46/31	1010	53/35			855	62/41	855	62/41				
		Med*		1440	37/25	1400	38/25	1355	39/26	1285	44/29	1145	46/31	1010	53/35	855	62/41	855	62/41								
		Low**		1015	52/35	1000	53/36	965	55/37	920	58/38	865	61/41	790	67/45	680	78/52			540	99/66			540	99/66		
072-16B	72,000	High†	1/2	1985	27/18	1945	27/18	1900	28/18	1850	29/19	1780	30/20	1715	31/21	1640	33/22			1545	35/23	1545	35/23				
		Med-High		1680	32/21	1650	32/21	1625	33/22	1600	33/22	1560	34/23	1505	35/23	1420	37/25	1330	40/27	1330	40/27						
		Med-Low*		1450	36/24	1410	37/25	1390	38/26	1370	39/26	1345	40/27	1305	41/28	1245	43/29	1160	46/31					1160	46/31		
096-12B	96,000	High†	1/2	1950	38/33	1885	39/23	1815	40/24	1765	42/25	1685	44/26	1600	46/27	1535	48/29	1425	52/31			1425	52/31				
		Med-High		1700	43/25	1665	44/26	1630	45/27	1580	47/28	1540	48/27	1475	50/30	1410	52/32	1330	55/33	1330	55/33						
		Med-Low*		1430	51/30	1425	51/31	1395	52/32	1380	53/32	1335	55/33	1295	57/34	1230	60/36	1150	64/38					1150	64/38		
096-16B	96,000	High†	1/2	1950	38/33	1885	39/23	1815	40/24	1765	42/25	1685	44/26	1600	46/27	1535	48/29	1425	52/31			1425	52/31				
		Med-High		1700	43/25	1665	44/26	1630	45/27	1580	47/28	1540	48/27	1475	50/30	1410	52/32	1330	55/33	1330	55/33						
		Med-Low**		1430	51/30	1425	51/31	1395	52/32	1380	53/32	1335	55/33	1295	57/34	1230	60/36	1150	64/38					1150	64/38		
096-20B	96,000	High†	3/4	2100	35/20	2070	36/21	2010	37/22	1945	38/23	1905	39/23	1840	40/24	1790	41/25	1710	43/26			1710	43/26				
		Med-High		1830	40/23	1805	41/24	1760	42/25	1725	43/26	1680	44/27	1635	45/28	1555	47/29	1480	50/30	1480	50/30						
		Med-Low*		1580	47/27	1550	48/28	1520	49/29	1490	50/30	1455	51/31	1395	53/32	1355	55/33	1280	57/35					1280	57/35		
120-16B	120,000	High†	1/2	1950	46/27	1885	47/28	1815	48/29	1765	50/30	1685	53/31	1600	55/33	1535	58/35	1425	62/38			1425	62/38				
		Med-High		1700	53/31	1665	53/32	1630	55/33	1580	56/34	1540	57/34	1475	60/36	1410	63/38	1330	67/40	1330	67/40						
		Med-Low*		1430	63/37	1425	62/38	1395	64/39	1380	65/40	1335	66/41	1295	68/42	1230	72/43	1150	77/46					1150	77/46		
120-20B	120,000	High†	3/4	2100	42/25	2070	43/26	2010	44/26	1945	46/27	1905	47/28	1840	48/29	1790	49/30	1710	52/31			1710	52/31				
		Med-High		1830	48/28	1805	49/29	1760	50/30	1725	51/31	1680	53/32	1635	54/33	1555	57/34	1480	60/35	1480	60/35						
		Med-Low*		1580	56/33	1550	57/34	1520	58/35	1490	59/36	1455	61/36	1395	63/38	1355	65/39	1280	71/42					1280	71/42		
Low**	1175	75/45	1155	77/46	1120	79/47	1100	80/48	1070	83/50	1035	85/51	990	90/54	930	95/57	930	95/57									

**NOTES:**

- † = Factory Set Cooling
  - \* = Factory Set High Fire Heating
  - \*\* = Factory Set Low Fire Heating
  - = Not Factory Recommended
1. Airflow rates of 1800 CFM or more require two return air connections. Data is for operation with filter(s).
  2. Temperature rises in the table are approximate. Actual temperature rises may vary.
  3. Temperature rises and airflows for external static pressures greater than 0.5 are for reference only these conditions are not recommended.
  4. Temperature rise is displayed as High Fire/Low Fire







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