

TECHNICAL SPECIFICATIONS

KG7S (A and K Series)

High Efficiency Upflow/Horizontal and Downflow Gas Furnaces

Induced Draft - 80+ AFUE
Input 45,000 - 126,000 Btuh

The high efficiency gas furnace may be installed free standing in a utility room, basement, or enclosed in an alcove or closet. The rounded corner jacket provides a pleasing "appliance appearance." Design certified by CSA for application in the United States and Canada.



This furnace series is approved and certified by the SCAQM and the SJVAPC Districts in the state of California under each Districts' Mitigation Fee Plan for shipment into and sales in both districts.

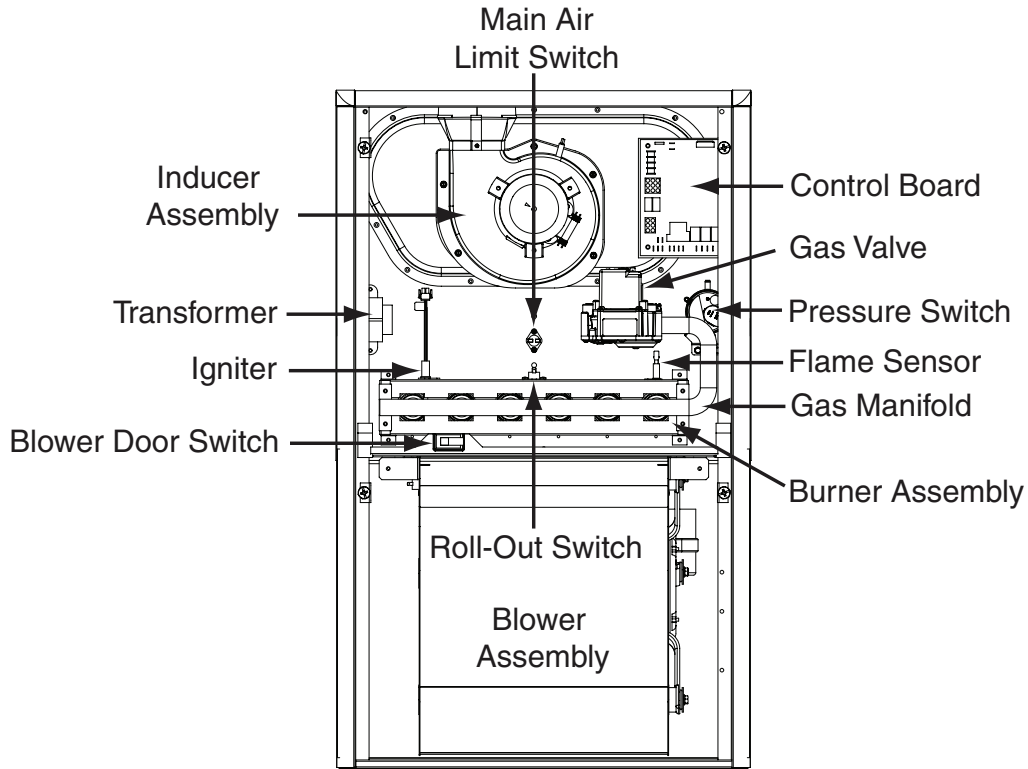
For California installations in SCAQMD only: This furnace does not meet the SCAQMD Rule 1111 NOx emission limit (14 ng/J), and thus is subject to a mitigation fee of up to \$450. This furnace is not eligible for the Clean Air Furnace Rebate Program: www.CleanAirFurnaceRebate.com.

FEATURES and BENEFITS

- **100% fired and tested:** All units and each component are tested on the manufacturing line.
- **Best packaging in the industry:** Unique corner post design assures product will arrive to the homeowner dent free.
- **Low Boy Height:** Easy to apply in low ceiling applications, works well with taller high SEER coils, easier to handle and install.
- **Tubular primary heat exchanger:** Heavy gauge aluminized steel heat exchanger assures a long life.
- **30 second blower delay at start-up:** Assures a warm duct temperature at furnace start-up. Adjustable blower off settings (60, 90, 120 and 180 seconds).
- **30 second post purge:** Increases life of heat exchanger.
- **Hot surface ignitor:** Innovative application of an appliance type ignitor with a 20 year history of reliability. Utilizes proven Smartlite® technology.
- **Color coded wire harness:** Designed to fit the components, all with quick-connect fittings for ease of service and replacement.
- **High static blowers:** All models equipped with high static blowers.
- **60 second cooling cycle blower-off delay (TDR):** increases cooling performance when matched with a Nordyne coil.
- **Flexible category I venting system:** May be vented with dedicated venting system or common vented with other category one appliances.
- **High efficiency blower kits:** Maximize efficiencies. On select units, a SEER improvement of up to 1 point is realized.
- **Multi-speed direct drive blower:** Designed to give a wide range of cooling capacities. Switches on PCB, provide ultra easy motor speed selection.
- **LP convertible:** Simple burner orifice and regulator spring change for ease of convertibility.
- **Diagnostic lights for easy troubleshooting without counting flashes:** Dedicated light for flame signal strength and 2 lights in combination to indicate all other fault codes with easy to recognize states without counting flashes.
- **Integrated control board:** Incorporates connections for electronic air cleaner and humidifier.
- **Two piece door design:** Enhances furnace appearance and uses captured screws to prevent losing door screws.
- **Furnace Air Leakage:** These furnaces comply with Energy Star cabinet air leakage requirement of less than or equal to 2%. Keep the conditioned air flowing to where it's needed.

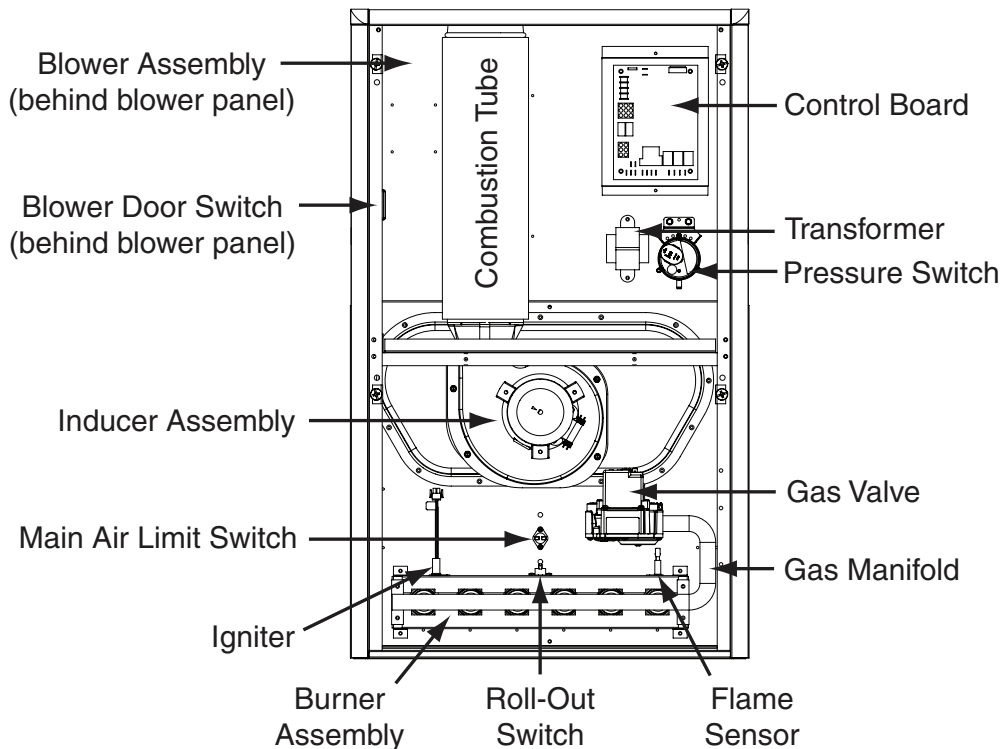
GAS FURNACE COMPONENTS

UPFLOW / HORIZONTAL FURNACE (*SA SERIES)



Upflow/Horizontal Gas Furnace

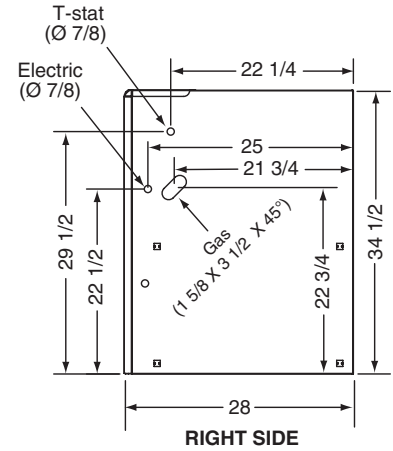
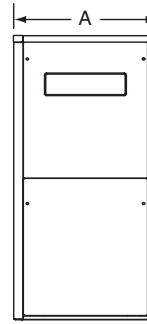
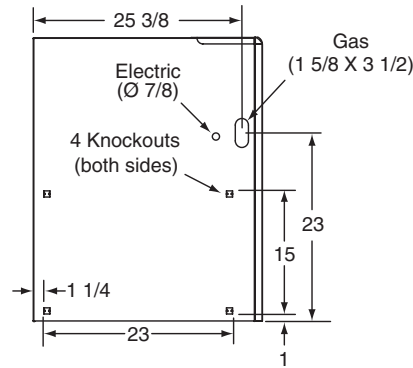
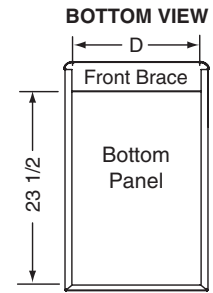
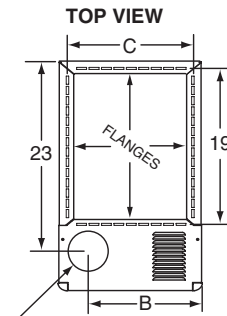
DOWNFLOW FURNACE (*SK SERIES)



Downflow Gas Furnace

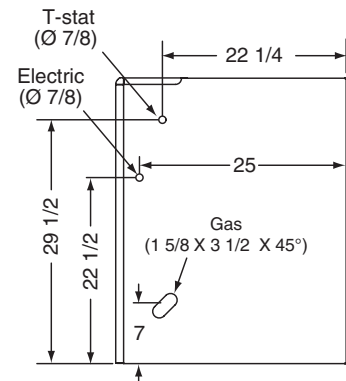
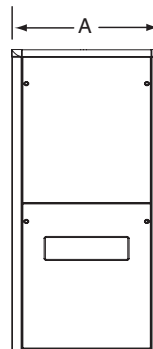
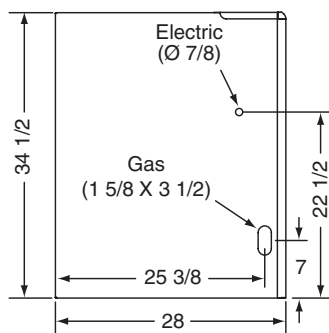
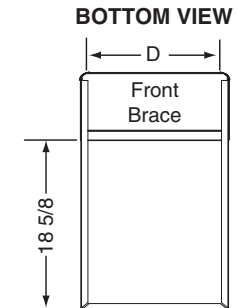
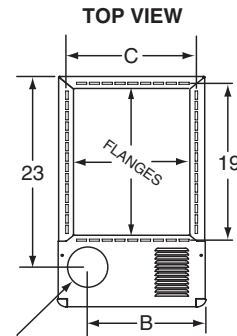
DIMENSIONS

*SA Model #'s	Dimension "A"	Dimension "B"	Dimension "C"	Dimension "D"
045-23A	14 1/4	10 3/4	12 5/8	12 7/8
054-23A				
072-24B				
090-24B	17 1/2	11 3/4	15 7/8	16 1/8
072-35C				
090-35C				
108-35C	21	14	19 3/8	19 7/8
126-45D	24 1/2	15 1/4	22 7/8	23 1/8



KG7SA 80+ High Efficiency Upflow/Horizontal Series

*SK Model #'s	Dimension "A"	Dimension "B"	Dimension "C"	Dimension "D"
054-23A	14 1/4	10 3/4	12 5/8	12 7/8
072-24B	17 1/2	11 3/4	15 7/8	16 1/8
090-24B				
108-35C	21	14	19 3/8	19 5/8
126-45D	24 1/2	15 1/4	22 7/8	23 1/8



KG7SK 80+ High Efficiency Downflow Series

BLOWER PERFORMANCE - KG7SA

AIRFLOW DATA

*SA - UPFLOW / HORIZONTAL FURNACES - 80+ AFUE																	
Model Number & Heating Input (Btuh)	Motor Speed	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
SA045C-23A Bottom Return (45,000)	High*	1,260	26	1,205	28	1,145	29	1,080	31	1,025	33	960	35	890	37	825	40
	Med-High	955	35	950	35	940	35	935	36	925	36	860	39	800	42	725	46
	Med-Low**	825	40	800	42	760	44	730	46	690	48	650	51	600	—	530	—
	Low	655	51	630	53	610	55	580	—	550	—	520	—	480	—	435	—
SA045C-23A Side Return (45,000)	High*	1,350	25	1,290	26	1,225	27	1,155	29	1,100	30	1,025	33	950	35	885	38
	Med-High	1,025	33	1,015	33	1,005	33	1,000	33	990	34	920	36	855	39	775	43
	Med-Low**	885	38	855	39	815	41	780	43	740	45	695	48	640	52	565	—
	Low	700	48	675	49	655	51	620	—	590	—	555	—	515	—	465	—
SA054C-23A Bottom Return (54,000)	High*	1,260	32	1,205	33	1,145	35	1,080	37	1,025	39	960	42	890	45	825	48
	Med-High**	955	42	950	42	940	43	935	43	925	43	860	47	800	50	725	55
	Med-Low	825	48	800	50	760	53	730	55	690	—	650	—	600	—	530	—
	Low	655	—	630	—	610	—	580	—	550	—	520	—	480	—	435	—
SA054C-23A Side Return (54,000)	High*	1,350	30	1,290	31	1,225	33	1,155	35	1,100	36	1,025	39	950	42	885	45
	Med-High**	1,025	39	1,015	39	1,005	40	1,000	40	990	40	920	43	855	47	775	52
	Med-Low	885	45	855	47	815	49	780	51	740	54	695	—	640	—	565	—
	Low	700	—	675	—	655	—	620	—	590	—	555	—	515	—	465	—
SA072C)-24B Bottom Return (72,000)	High*	1,685	32	1,640	33	1,605	33	1,565	34	1,515	35	1,475	36	1,415	38	1,345	40
	Med-High	1,330	40	1,295	41	1,275	42	1,245	43	1,215	44	1,185	45	1,135	47	1,070	50
	Med-Low**	1,175	45	1,155	46	1,125	47	1,100	48	1,075	50	1,045	51	1,010	53	955	56
	Low	930	57	895	60	885	60	850	—	825	—	800	—	770	—	740	—
SA072C-24B Side Return (72,000)	High*	1,770	30	1,720	31	1,685	32	1,645	32	1,590	34	1,550	34	1,485	36	1,415	38
	Med-High	1,400	38	1,360	39	1,340	40	1,310	41	1,275	42	1,245	43	1,190	45	1,125	47
	Med-Low**	1,235	43	1,215	44	1,180	45	1,155	46	1,130	47	1,100	48	1,060	50	1,005	53
	Low	975	55	940	57	930	57	890	60	865	—	840	—	810	—	775	—
SA090C-24B Bottom Return (90,000)	High*	1,610	41	1,575	42	1,530	44	1,485	45	1,440	46	1,385	48	1,340	50	1,275	52
	Med-High**	1,295	51	1,260	53	1,235	54	1,220	55	1,175	57	1,135	59	1,095	—	1,015	—
	Med-Low	1,155	58	1,130	59	1,100	61	1,070	—	1,035	—	1,015	—	965	—	920	—
	Low	880	—	860	—	830	—	800	—	765	—	740	—	675	—	660	—
SA090C-24B Side Return (90,000)	High*	1,690	39	1,655	40	1,610	41	1,560	43	1,510	44	1,455	46	1,405	47	1,340	50
	Med-High**	1,360	49	1,325	50	1,300	51	1,280	52	1,235	54	1,190	56	1,150	58	1,065	—
	Med-Low	1,215	55	1,190	56	1,155	58	1,125	59	1,090	—	1,065	—	1,015	—	965	—
	Low	925	—	900	—	870	—	840	—	800	—	775	—	710	—	695	—
SA072C-35C Bottom Return (72,000)	High*	1,950	—	1,865	—	1,790	—	1,715	—	1,630	—	1,550	—	1,475	36	1,390	38
	Med-High	1,860	—	1,780	—	1,710	—	1,635	—	1,575	—	1,500	36	1,415	38	1,325	40
	Med-Low**	1,300	41	1,240	43	1,200	44	1,160	46	1,120	48	1,065	50	995	54	910	59
	Low	1,165	46	1,115	48	1,060	50	1,025	52	985	54	940	57	890	60	825	65
SA072C-35C Side Return (72,000)	High*	2,030	—	1,940	—	1,860	—	1,785	—	1,695	—	1,615	—	1,535	35	1,445	37
	Med-High	1,935	—	1,850	—	1,780	—	1,700	—	1,340	40	1,560	—	1,470	36	1,380	39
	Med-Low**	1,350	40	1,290	41	1,250	43	1,205	44	1,165	46	1,110	48	1,035	52	945	56
	Low	1,215	44	1,160	46	1,105	48	1,065	50	1,025	52	980	54	925	58	860	62
SA072C-35C Side + Bottom or 2 Sides (72,000)	High*	2,050	—	1,960	—	1,880	—	1,800	—	1,710	—	1,630	—	1,550	—	1,460	37
	Med-High	1,955	—	1,870	—	1,800	—	1,715	—	1,655	—	1,575	—	1,485	36	1,390	38
	Med-Low**	1,365	39	1,300	41	1,260	42	1,220	44	1,175	45	1,120	48	1,045	51	955	56
	Low	1,225	44	1,170	46	1,115	48	1,075	50	1,035	52	985	54	935	57	865	62

Table 3. Maximum Airflow & Temperature Rises (° F) - Upflow / Horizontal Furnaces

BLOWER PERFORMANCE - KG7SA Continued

*SA - UPFLOW / HORIZONTAL FURNACES - 80+ AFUE																		
Model Number	Heating Input (Btuh)	Motor Speed	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
SA090C-35C Bottom Return (90,000)	High* Med-High** Med-Low Low	High*	1,940	—	1,860	36	1,790	37	1,710	39	1,625	41	1,540	43	1,450	46	1,355	49
		Med-High**	1,820	37	1,760	38	1,695	39	1,620	41	1,545	43	1,466	45	1,380	48	1,280	52
		Med-Low	1,290	52	1,245	54	1,200	56	1,155	58	1,110	60	1,060	63	995	—	915	—
		Low	1,145	58	1,110	60	1,070	62	1,035	64	1,000	—	950	—	905	—	835	—
SA090C-35C Side Return (90,000)	High* Med-High** Med-Low Low	High*	2,020	—	1,935	—	1,860	36	1,780	37	1,690	39	1,600	42	1,510	44	1,410	47
		Med-High**	1,895	35	1,830	36	1,765	38	1,685	40	1,610	41	1,525	44	1,435	46	1,330	50
		Med-Low	1,345	50	1,295	51	1,250	53	1,200	56	1,155	58	1,100	61	1,035	64	950	—
		Low	1,190	56	1,155	58	1,115	60	1,075	62	1,040	64	980	—	940	—	870	—
SA090C-35C Side + Bottom or 2 Sides (90,000)	High* Med-High** Med-Low Low	High*	2,040	—	1,955	—	1,880	35	1,795	37	1,705	39	1,620	41	1,525	44	1,425	47
		Med-High**	1,910	35	1,850	36	1,780	37	1,700	39	1,625	41	1,540	43	1,450	46	1,345	50
		Med-Low	1,355	49	1,310	51	1,260	53	1,215	55	1,165	57	1,115	60	1,050	63	960	—
		Low	1,205	55	1,165	57	1,125	59	1,085	61	1,050	63	1,000	—	950	—	875	—
SA108C-35C Bottom Return (108,000)	High* Med-High** Med-Low Low	High*	2,205	36	2,150	37	2,095	38	2,030	39	1,970	41	1,900	42	1,830	44	1,740	46
		Med-High**	2,050	39	1,995	40	1,955	41	1,895	42	1,840	43	1,775	45	1,700	47	1,610	50
		Med-Low	1,700	47	1,680	48	1,645	49	1,610	50	1,565	51	1,525	52	1,460	55	1,375	58
		Low	1,390	58	1,370	58	1,355	59	1,320	61	1,300	62	1,270	63	1,225	65	1,175	—
SA108C-35C Side Return (108,000)	High* Med-High** Med-Low Low	High*	2,295	35	2,235	36	2,180	37	2,110	38	2,050	39	1,975	41	1,900	42	1,810	44
		Med-High**	2,130	38	2,075	39	2,035	39	1,970	41	1,915	42	1,845	43	1,765	45	1,675	48
		Med-Low	1,770	45	1,750	46	1,710	47	1,675	48	1,630	49	1,585	50	1,520	53	1,430	56
		Low	1,445	55	1,425	56	1,410	57	1,375	58	1,350	59	1,320	61	1,275	63	1,225	65
SA108C-35C Side + Bottom or 2 Sides (108,000)	High* Med-High** Med-Low Low	High*	2,315	35	2,260	35	2,200	36	2,130	38	2,070	39	1,995	40	1,925	42	1,825	44
		Med-High**	2,155	37	2,095	38	2,055	39	1,990	40	1,930	41	1,865	43	1,785	45	1,690	47
		Med-Low	1,785	45	1,765	45	1,725	46	1,690	47	1,645	49	1,600	50	1,535	52	1,445	55
		Low	1,460	55	1,440	56	1,425	56	1,385	58	1,365	59	1,335	60	1,285	62	1,235	65
SA126C-45D Bottom only or 2 openings (126,000)	High* Med-High** Med-Low Low	High*	2,255	41	2,200	42	2,125	44	2,065	45	2,010	46	1,935	48	1,855	50	1,755	53
		Med-High**	2,075	45	2,025	46	1,970	47	1,940	48	1,875	50	1,810	52	1,750	53	1,680	56
		Med-Low	1,720	54	1,695	55	1,655	56	1,630	57	1,580	59	1,520	61	1,455	64	1,390	67
		Low	1,360	69	1,375	68	1,365	68	1,315	—	1,310	—	1,300	—	1,260	—	1,230	—
SA126C-45D Side Return (126,000)	High* Med-High** Med-Low Low	High*	2,230	42	2,180	43	2,105	44	2,045	46	1,990	47	1,915	49	1,835	51	1,740	54
		Med-High**	2,055	45	2,005	47	1,950	48	1,920	49	1,855	50	1,790	52	1,735	54	1,665	56
		Med-Low	1,705	55	1,680	56	1,640	57	1,615	58	1,565	60	1,505	62	1,440	65	1,375	68
		Low	1,345	69	1,360	69	1,350	69	1,300	—	1,230	—	1,290	—	1,250	—	1,220	—

NOTES:

* Factory Set Cooling Speed

** Factory Set Heating Speed

- Two openings are required for airflows above 1,600 CFM if filter(s) is(are) adjacent to furnace
- Temperature rises in the table are approximate. Actual temperature rises may vary.
- Temperature rises shaded in gray are not recommended.

Table 3. Continued

BLOWER PERFORMANCE - KG7SK

*SK - DOWNFLOW FURNACES - 80+ AFUE																	
Model Number & Heating Input (Btuh)	Motor Speed	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
SK054C-23A (54,000)	High*	1,375	29	1,340	30	1,300	31	1,270	31	1,225	33	1,175	34	1,115	36	1,035	39
	Med-High	1,155	35	1,130	35	1,110	36	1,085	37	1,055	38	1,015	39	975	41	910	44
	Med-Low**	790	51	775	52	765	52	750	53	730	55	700	—	665	—	610	—
	Low	650	—	640	—	630	—	610	—	590	—	565	—	530	—	480	—
SK072C-24B (72,000)	High*	1,675	32	1,655	32	1,640	33	1,620	33	1,590	34	1,560	35	1,520	35	1,475	36
	Med-High	1,330	40	1,315	41	1,300	41	1,280	42	1,255	42	1,230	44	1,200	44	1,150	46
	Med-Low**	1,180	45	1,165	46	1,150	46	1,135	47	1,115	48	1,090	50	1,060	50	1,010	53
	Low	940	57	925	58	900	59	880	61	850	63	825	65	795	—	760	—
SK090C-24B (90,000)	High*	1,610	41	1,590	42	1,575	42	1,560	43	1,540	43	1,495	46	1,460	46	1,415	47
	Med-High	1,295	51	1,275	52	1,260	53	1,250	53	1,220	55	1,195	57	1,170	57	1,120	60
	Med-Low**	1,155	58	1,235	54	1,115	60	1,095	61	1,065	63	1,040	66	1,015	66	980	68
	Low	910	—	885	—	860	—	835	—	810	—	785	—	765	—	735	—
SK108C-35C (108,000)	High*	2,395	33	2,335	34	2,285	35	2,230	36	2,200	36	2,140	37	2,080	38	2,000	40
	Med-High	2,190	37	2,135	37	2,115	38	2,080	38	2,030	39	1,975	41	1,915	42	1,810	44
	Med-Low**	1,785	45	1,770	45	1,740	46	1,725	46	1,685	47	1,645	49	1,615	50	1,565	51
	Low	1,145	—	1,110	—	1,070	—	1,035	—	1,000	—	950	—	905	—	835	—
SK126C-45D (126,000)	High*	2,445	38	2,395	39	2,385	39	2,330	40	2,275	41	2,225	42	2,130	44	2,015	46
	Med-High	2,195	43	2,170	43	2,140	44	2,120	44	2,090	45	2,030	46	1,975	47	1,855	50
	Med-Low**	1,795	52	1,780	52	1,770	53	1,760	53	1,725	54	1,690	55	1,655	56	1,610	58
	Low	1,480	63	1,475	63	1,450	64	1,440	65	1,440	65	1,415	—	1,405	—	1,375	—

NOTES:

* Factory Set Cooling Speed

** Factory Set Heating Speed

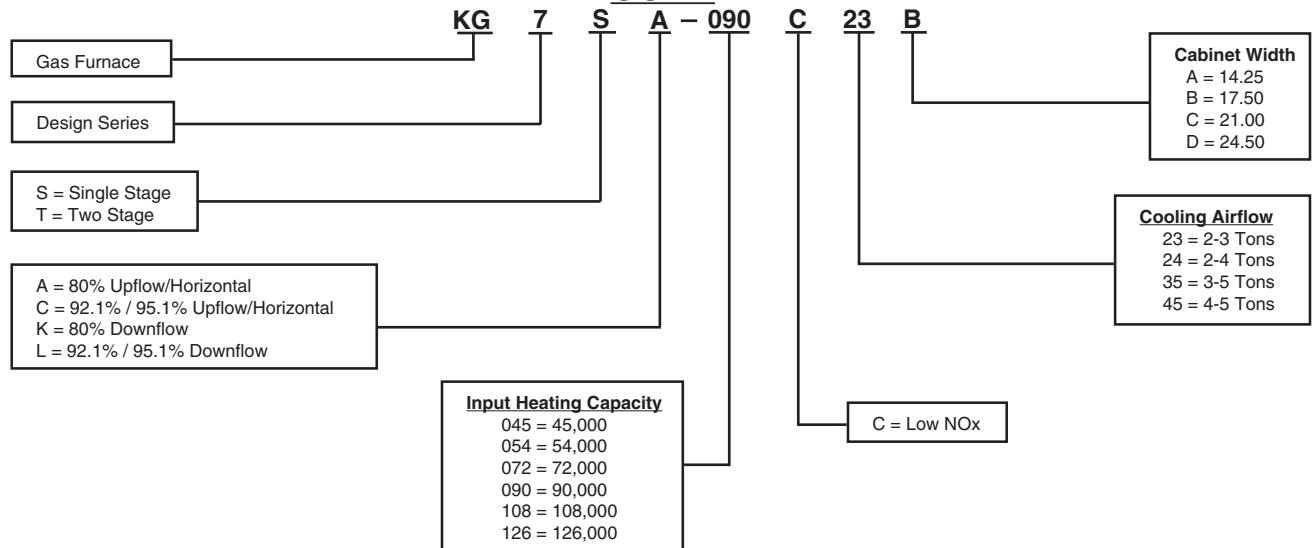
1. Temperature rises in the table are approximate. Actual temperature rises may vary.

2. Temperature rises shaded gray are not recommended.

Table 4. Maximum Airflow & Temperature Rises (° F) - Downflow Furnaces

MODEL IDENTIFICATION

CODE



SPECIFICATIONS

KG7SA MODEL NUMBERS	-045-23A	-054-23A	-072-24B	-090-24B	-072-35C	-090-35C	-108-35C	-126-45D
Input - Btuh (a)	45,000	54,000	72,000	90,000	72,000	90,000	108,000	126,000
Heating Capacity - Btuh	36,000	43,200	57,600	72,000	57,600	72,000	86,400	100,800
AFUE	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
Blower D x W	10 x 6	10 x 6	11 x 8	11 x 8	10 x 10	10 x 10	11 x 10	11 x 10
Motor H.P. - Speed - Type	1/3 - 4 - PSC	1/3 - 4 - PSC	1/2 - 4 - PSC	1/2 - 4 - PSC	1/2 - 4 - PSC	1/2 - 4 - PSC	1.0 - 4 - PSC	1.0 - 4 - PSC
Motor FLA	4.80	4.80	8.20	8.20	7.50	7.50	13.75	13.75
Rated Ext. SP - In. W.C.	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Temperature Rise Range - °F	30-60	30-60	35-65	35-65	35-65	35-65	40-70	40-70
Shipping Weights	100lbs	100lbs	110lbs	115lbs	115lbs	120lbs	125lbs	145lbs
SKU	905004K	905005K	904989K	905006K	905007K	905008K	905009K	905010K

KG7SK MODEL NUMBERS	-054-23A	-072-24B	-090-24B	-108-35C	-126-45D
Input - Btuh (a)	54,000	72,000	90,000	108,000	126,000
Heating Capacity - Btuh	43,200	57,600	72,000	86,400	100,800
AFUE	80.0	80.0	80.0	80.0	80.0
Blower D x W	10 x 6	11 x 8	11 x 8	11 x 10	11 x 10
Motor H.P. - Speed - Type	1/3 - 4 - PSC	1/2 - 4 - PSC	1/2 - 4 - PSC	1.0 - 4 - PSC	1.0 - 4 - PSC
Motor FLA	4.80	8.20	8.20	13.75	13.75
Rated Ext. SP - In. W.C.	0.5	0.5	0.5	0.5	0.5
Temperature Rise Range - °F	30-60	35-65	35-65	40-70	40-70
Shipping Weights	100lbs	110lbs	115lbs	125lbs	145lbs
SKU	905011K	905012K	905013K	905014K	905015K

ACCESSORIES

KG7S (A, K) KITS	
Description	SKU
"A" Cabinet fixed speed, high efficiency, FSHE	904872
"B" Cabinet fixed speed, high efficiency, FSHE	904873
"C" Cabinet fixed speed, high efficiency, FSHE	904874
"D" Cabinet fixed speed, high efficiency, FSHE	904875
"A" Cabinet variable speed, high efficiency, VSHE	904876
"B" Cabinet variable speed, high efficiency, VSHE	904877
"C" Cabinet variable speed, high efficiency, VSHE	904878
"D" Cabinet variable speed, high efficiency, VSHE	904879
"A" Cabinet downflow sub base kit	902974
"B", "C", "D" Cabinet downflow sub base kit	904911
U.S. LP Conversion kit (0 to 10,000 ft.)	905028
Canada LP Conversion kit (0 to 4,500 ft.)	905029
Bottom return filter 20 per box, "A" cabinet	903088A
Bottom return filter 20 per box, "B" cabinet	904916
Bottom return filter 20 per box, "C" cabinet	904917
Bottom return filter 20 per box, "D" cabinet	904918
Side return filter kit	541036
Furnace Twinning Kit	1010035



GENERAL TERMS OF LIMITED WARRANTY

Nordyne, LLC will furnish a replacement for any part of this product which fails in normal use and service within the terms and conditions of the warranty.

For complete details of the Limited Warranty, including applicable terms and conditions, see your local installer or contact the Nordyne, LLC warranty department for a copy.

Before purchasing this appliance, read important energy cost and efficiency information available from your retailer. Specifications and illustrations subject to change without notice and without incurring obligations. Printed in U.S.A (03/2019)