

BLOWER DATA

G7S(A,K) GAS FURNACES WITH FIXED SPEED BLOWERS



*SA Upflow / Horizontal Furnace



*SK Downflow Furnace

WARNING:

ELECTRICAL SHOCK, FIRE OR EXPLOSION HAZARD

Failure to follow safety warnings exactly could result in serious injury or property damage.

Improper servicing could result in dangerous operation, serious injury, death or property damage.

- **Before servicing, disconnect all electrical power to furnace.**
 - **When servicing controls, label all wires prior to disconnecting. Reconnect wires correctly.**
 - **Verify proper operation after servicing.**
- **Electrical connections must be in compliance with all applicable local codes and the current revision of the National Electric Code (ANSI/NFPA 70).**
 - **For Canadian installations the electrical connections and grounding shall comply with the current Canadian Electrical Code (CSA C22.1 and/or local codes).**
- INSTALLER: Please read all instructions before servicing this equipment. Pay attention to all safety warnings and any other special notes highlighted in the manual. Safety markings are used frequently throughout this manual to designate a degree or level of seriousness and should not be ignored.**
- To minimize equipment failure or personal injury, it is essential that only qualified individuals install, service, or maintain this equipment. If you do not possess mechanical skills or tools, call your local dealer for assistance.
 - Use caution when handling this appliance or removing components. Personal injury can occur from sharp metal edges present in all sheet metal constructed equipment.
 - Always reinstall the doors on the furnace after servicing. Do not operate the furnace without all doors and covers in place.
 - Follow all precautions in the literature, on tags, and on labels provided with the equipment. Read and thoroughly understand the instructions provided with the equipment prior to performing the installation and operational checkout of the equipment.

G7SA-045C-T24A1 (WITH 5-SPEED ECM MOTOR)

HEATING AIRFLOW (CFM) & TEMPERATURE RISE (°F)												
Model Name/ Heating Input	Return air via:	Motor Speed	External Static Pressure (in. w.c.)									
			0.1		0.2		0.3		0.4		0.5	
			CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE
G7SA-045C-T24A1 45,000 BTU/Hr	Bottom	5 - High										
		4 - Med-High										
		3 - Medium	985	34	945	35	905	37	865	39	815	41
		2 - Med-Low	845	39	800	42	760	44	720	46	670	50
		1 - Low	790	42	735	45	695	48	645	52	605	55
	Side	5 - High										
		4 - Med-High										
		3 - Medium	980	34	945	35	895	37	865	39	830	40
		2 - Med-Low	845	39	800	42	765	44	720	46	670	50
		1 - Low	790	42	740	45	705	47	650	51	610	55
	Side + Bottom or 2 sides	5 - High										
		4 - Med-High										
		3 - Medium	975	34	940	35	905	37	865	39	825	40
		2 - Med-Low	850	39	815	41	770	43	730	46	680	49
		1 - Low	790	42	755	44	705	47	680	49	625	53

COOLING Airflow (CFM)										
Model Name/ Heating Input	Return air via:	Motor Speed	External Static Pressure (in. w.c.)							
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
			CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM
G7SA-045C-T24A1 45,000 BTU/Hr	Bottom	5 - High	1,340	1,310	1,270	1,240	1,205	1,175	1,140	1,100
		4 - Med-High	1,150	1,115	1,075	1,040	1,010	950	925	890
		3 - Medium	985	945	905	865	815	780	735	685
		2 - Med-Low	845	800	760	720	670	625	580	
		1 - Low	790	735	695	645	605	555		
	Side	5 - High	1,340	1,310	1,270	1,240	1,205	1,175	1,140	1,100
		4 - Med-High	1,150	1,115	1,075	1,040	1,010	950	925	890
		3 - Medium	980	945	895	865	830	785	740	700
		2 - Med-Low	845	800	765	720	670	635	585	
		1 - Low	790	740	705	650	610	570		
	Side + Bottom or 2 sides	5 - High	1,340	1,310	1,270	1,240	1,205	1,175	1,140	1,100
		4 - Med-High	1,150	1,115	1,075	1,040	1,010	950	925	890
		3 - Medium	975	940	905	865	825	780	740	685
		2 - Med-Low	850	815	770	730	680	645	600	
		1 - Low	790	755	705	680	625	575		

***NOTES:**

1. To comply with government mandated efficiency standards, two openings are required for airflows above 1,600 CFM.
2. Data is shown without filter.
3. Temperature rises in the table are approximate. Actual temperature rises may vary.
4. Individual cells shaded in gray indicate a temperature rise outside of the recommended range.
5. To comply with government mandated efficiency standards, speed settings shaded in gray are not allowed in HEAT mode.
6. Unit ships with (4) speeds pre-wired. Use of the fifth speed will require changing the appropriate wires at the motor connection. Consult the wiring diagram for more information.

G7SA-054C-T24A1 (WITH 5-SPEED ECM MOTOR)

HEATING AIRFLOW (CFM) & TEMPERATURE RISE (°F)												
Model Name/ Heating Input	Return air via:	Motor Speed	External Static Pressure (in. w.c.)									
			0.1		0.2		0.3		0.4		0.5	
			CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE
G7SA-054C-T24A1 52,000 BTU/Hr	Bottom	5 - High										
		4 - Med-High										
		3 - Medium	985	39	945	41	905	43	865	45	815	47
		2 - Med-Low	845	46	800	48	760	51	720	53	670	57
		1 - Low	790	49	735	52	695	55				
	Side	5 - High										
		4 - Med-High										
		3 - Medium	980	39	945	41	895	43	865	45	830	46
		2 - Med-Low	845	46	800	48	765	50	720	53	670	57
		1 - Low	790	49	740	52	705	55				
	Side + Bottom or 2 sides	5 - High										
		4 - Med-High										
		3 - Medium	975	40	940	41	905	43	865	45	825	47
		2 - Med-Low	850	45	815	47	770	50	730	53	680	57
		1 - Low	790	49	755	51	705	55				

COOLING AIRFLOW (CFM)										
Model Name/ Heating Input	Return air via:	Motor Speed	External Static Pressure (in. w.c.)							
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
			CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM
G7SA-054C-T24A1 52,000 BTU/Hr	Bottom	5 - High	1,340	1,310	1,270	1,240	1,205	1,175	1,140	1,100
		4 - Med-High	1,150	1,115	1,075	1,040	1,010	950	925	890
		3 - Medium	985	945	905	865	815	780	735	685
		2 - Med-Low	845	800	760	720	670	625	580	
		1 - Low	790	735	695	645	605	555		
	Side	5 - High	1,340	1,310	1,270	1,240	1,205	1,175	1,140	1,100
		4 - Med-High	1,150	1,115	1,075	1,040	1,010	950	925	890
		3 - Medium	980	945	895	865	830	785	740	700
		2 - Med-Low	845	800	765	720	670	635	585	
		1 - Low	790	740	705	650	610	570		
	Side + Bottom or 2 sides	5 - High	1,340	1,310	1,270	1,240	1,205	1,175	1,140	1,100
		4 - Med-High	1,150	1,115	1,075	1,040	1,010	950	925	890
		3 - Medium	975	940	905	865	825	780	740	685
		2 - Med-Low	850	815	770	730	680	645	600	
		1 - Low	790	755	705	680	625	575		

***NOTES:**

1. To comply with government mandated efficiency standards, two openings are required for airflows above 1,600 CFM.
2. Data is shown without filter.
3. Temperature rises in the table are approximate. Actual temperature rises may vary.
4. Individual cells shaded in gray indicate a temperature rise outside of the recommended range.
5. To comply with government mandated efficiency standards, speed settings shaded in gray are not allowed in HEAT mode.
6. Unit ships with (4) speeds pre-wired. Use of the fifth speed will require changing the appropriate wires at the motor connection. Consult the wiring diagram for more information.

G7SA-072C-T24B1 (WITH 5-SPEED ECM MOTOR)

HEATING AIRFLOW (CFM) & TEMPERATURE RISE (°F)													
Model Name/ Heating Input	Return air via:	Motor Speed	External Static Pressure (in. w.c.)										
			0.1		0.2		0.3		0.4		0.5		
			CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	
G7SA-072C-T24B1 70,000 BTU/Hr	Bottom or Side	5 - High											
		4 - Med-High	1,585	33	1,540	34	1,505	34	1,465	35	1,085	48	
		3 - Medium	1,265	41	1,210	43	1,165	45	1,125	46	1,085	48	
		2 - Med-Low	1,070	48	1,030	50	990	52	955	54	915	57	
		1 - Low											
	2 Openings	5 - High											
		4 - Med-High	1,585	33	1,540	34	1,505	34	1,465	35	1,085	48	
		3 - Medium	1,260	41	1,200	43	1,160	45	1,125	46	1,085	48	
		2 - Med-Low	1,110	47	1,070	48	1,030	50	980	53	935	55	
		1 - Low											

COOLING AIRFLOW (CFM)										
Model Name/ Heating Input	Return air via:	Motor Speed	External Static Pressure (in. w.c.)							
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
			CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM
G7SA-072C-T24B1 70,000 BTU/Hr	Bottom or Side	5 - High	1,780	1,740	1,700	1,665	1,620	1,580	1,540	1,500
		4 - Med-High	1,585	1,540	1,505	1,465	1,420	1,380	1,335	1,295
		3 - Medium	1,265	1,210	1,165	1,125	1,085	1,045	995	955
		2 - Med-Low	1,070	1,030	990	955	915	865	830	785
		1 - Low	970	925	865	820	765	715	665	625
	2 Openings	5 - High	1,790	1,755	1,710	1,675	1,635	1,600	1,560	1,525
		4 - Med-High	1,390	1,345	1,305	1,255	1,220	1,180	1,135	1,090
		3 - Medium	1,260	1,200	1,160	1,125	1,085	1,040	1,000	950
		2 - Med-Low	1,110	1,070	1,030	980	935	880	835	790
		1 - Low	970	925	875	830	770	725	680	630

***NOTES:**

1. To comply with government mandated efficiency standards, two openings are required for airflows above 1,600 CFM.
2. Data is shown without filter.
3. Temperature rises in the table are approximate. Actual temperature rises may vary.
4. Individual cells shaded in gray indicate a temperature rise outside of the recommended range.
5. To comply with government mandated efficiency standards, speed settings shaded in gray are not allowed in HEAT mode.
6. Unit ships with (4) speeds pre-wired. Use of the fifth speed will require changing the appropriate wires at the motor connection. Consult the wiring diagram for more information.

G7SA-090C-T24B1 (WITH 5-SPEED ECM MOTOR)

HEATING AIRFLOW (CFM) & TEMPERATURE RISE (°F)													
Model Name/ Heating Input	Return air via:	Motor Speed	External Static Pressure (in. w.c.)										
			0.1		0.2		0.3		0.4		0.5		
			CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	
G7SA-090C-T24B1 90,000 BTU/Hr	Bottom or Side	5 - High											
		4 - Med-High											
		3 - Medium	1,370	49	1,335	50	1,290	52	1,250	53	1,215	55	
		2 - Med-Low	1,075	62	1,035	64	990	67	950	70	905	74	
		1 - Low											
	2 Openings	5 - High											
		4 - Med-High											
		3 - Medium	1,370	49	1,335	50	1,290	52	1,250	53	1,215	55	
		2 - Med-Low	1,075	62	1,035	64	990	67	950	70	905	74	
		1 - Low											

COOLING AIRFLOW (CFM)											
Model Name/ Heating Input	Return air via:	Motor Speed	External Static Pressure (in. w.c.)								
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	
			CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM
G7SA-090C-T24B1 90,000 BTU/Hr	Bottom or Side	5 - High	1,810	1,765	1,735	1,700	1,665	1,625	1,590	1,550	
		4 - Med-High	1,560	1,515	1,475	1,440	1,395	1,370	1,315	1,275	
		3 - Medium	1,370	1,335	1,290	1,250	1,215	1,175	1,130	1,085	
		2 - Med-Low	1,075	1,035	990	950	905	865	820	735	
		1 - Low	765	720	675	625	585	520	465	420	
	2 Openings	5 - High	1,810	1,765	1,735	1,700	1,665	1,625	1,590	1,550	
		4 - Med-High	1,560	1,515	1,475	1,440	1,395	1,370	1,315	1,275	
		3 - Medium	1,370	1,335	1,290	1,250	1,215	1,175	1,130	1,085	
		2 - Med-Low	1,075	1,035	990	950	905	865	820	735	
		1 - Low	765	720	675	625	585	520	465	420	

***NOTES:**

1. To comply with government mandated efficiency standards, two openings are required for airflows above 1,600 CFM.
2. Data is shown without filter.
3. Temperature rises in the table are approximate. Actual temperature rises may vary.
4. Individual cells shaded in gray indicate a temperature rise outside of the recommended range.
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6. Unit ships with (4) speeds pre-wired. Use of the fifth speed will require changing the appropriate wires at the motor connection. Consult the wiring diagram for more information.



HRAI
✓ *MEMBER COMPANY*



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