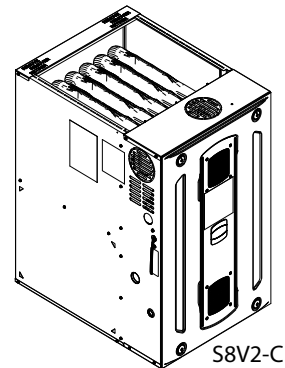


Submittal

Link Communicating or 24 Volt Gas-Fired 2 Stage Induced Draft Furnaces with Variable Speed Motor 60,000 BTUH

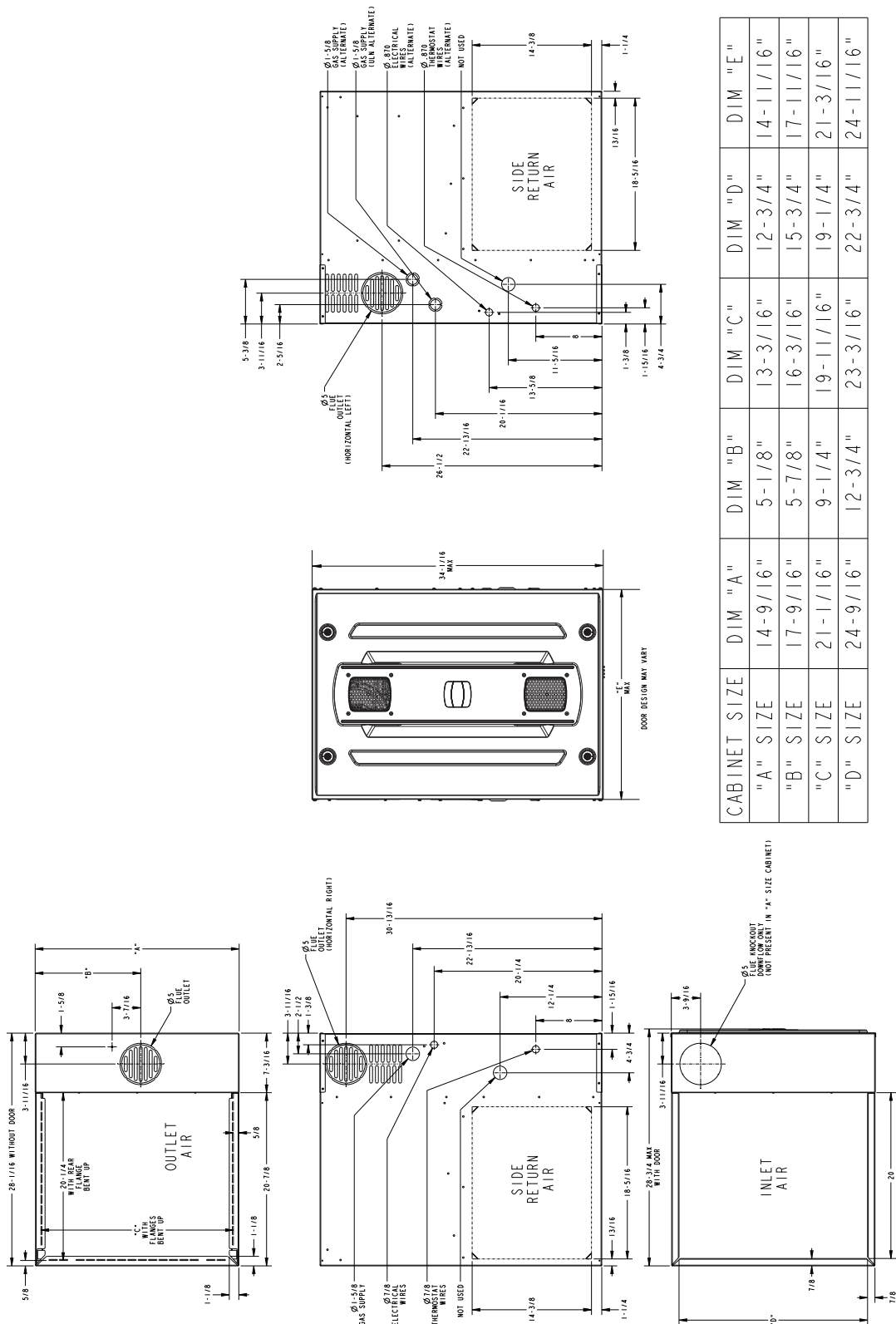
S8V2B060M4PC/D

Note: Models that have a "D" in the 12th digit designating they meet California less than 40 ng/J (NOx) emissions requirements.



Note: Graphics in this document are for representation only. Actual model may differ in appearance.

Outline Drawing



Product Specification

Model	S8V2B060M4PC ^(a) S8V2B060M4PD ^(a)
Type	Upflow / Horizontal / Downflow
RATINGS ^(b)	
1st Stage Input BTUH	39,000
1st Stage Capacity BTUH (ICS)	31,300
2nd Stage Input BTUH	60,000
2nd Stage Capacity BTUH (ICS) ^(c)	49,100
1st Stage Temp. Rise (Min. - Max.) °F	20 - 50
2nd Stage Temp. Rise (Min. - Max.) °F	30 - 60
AFUE – Rating ^(c)	80
Return Air Temp. (Min. - Max.) °F	55°F - 80°F
BLOWER DRIVE	DIRECT
Diameter - Width (in.)	11 X 8
No. Used	1
Speeds (No.) ^(d)	Variable
CFM vs. in. w.g.	See Fan Performance Table
Motor HP	3/4
R.P.M.	Variable
Volts / Ph / Hz	120 / 1 / 60
FLA	8
COMBUSTION FAN - Type	PSC
Drive - No. Speeds	Direct - 2
Motor HP - RPM	3200/2700
Volts/Ph/Hz	120 / 1 / 60
FLA	0.30
Inducer Orifice	1.40
FILTER - Furnished?	No
Type Recommended	High Velocity

Model	S8V2B060M4PC ^(a) S8V2B060M4PD ^(a)
Hi Vel. (No.-Size-Thk.)	1 - 16 X 25 - 1 in.
VENT PIPE DIAMETER - Min. (in.) ^(e)	4 Round
HEAT EXCHANGER - Type	Aluminized Steel
Gauge (Fired)	20 - 19
ORIFICES - Main	
Nat. Gas Qty. - Drill Size	3 - 45
L.P. Gas Qty. - Drill Size	3 - 56
GAS VALVE	Redundant - Two Stage
PILOT SAFETY DEVICE - Type	120 V SiNi Igniter
BURNERS - QTY	3
POWER CONN. - V/Ph/HZ ^(f)	120 / 1 / 60
Ampacity (Amps)	10.5
Max. Overcurrent Protection (Amps)	15
PIPE CONN. SIZE (IN.)	1/2
DIMENSIONS	H x W x D
Uncrated (in.)	34 x 17.5 x 28.75
Crated (in.)	35.5 x 19.5 x 30.87
WEIGHT	
Shipping (Lbs.)/Net (Lbs.)	132/124

- (a) Central Furnace heating designs are certified to ANSI Z21.47 - latest edition.
- (b) For U.S. applications, above input ratings (BTUH) are up to 2,000 feet, derate 4% per 1,000 feet for elevations above 2,000 feet above sea level.
- (c) Based on U.S. government standard tests.
- (d) Direct drive variable speed blower motor is an ECM constant airflow blower motor.
- (e) Refer to the Installation, Operation, and Maintenance Manual.
- (f) The above wiring specifications are in accordance with National Electric Code, however, installations must comply with local codes.

Airflow Tables

Table 1. S8V2B060M4P Heating Airflow

S8V2B060M4P Furnace Heating Airflow (CFM), Temp. Rise (°F), and Power (Watts) vs. External Static Pressure with Filter (iwc)								
				1st Stage Capacity = 31,300 2nd Stage Capacity = 49,100				
Heating	Airflow Setting	Target Airflow		External Static Pressure				
				0.1	0.3	0.5	0.7	0.9
Heating 1st Stage	Low	711	CFM	690	687	684	681	678
			Temp. Rise	42	42	42	43	43
			Watts	44	83	122	161	200
	Medium Low ^(a)	830	CFM	808	812	816	820	824
			Temp. Rise	36	36	36	36	35
			Watts	63	107	151	194	238
	Medium	948	CFM	917	921	925	929	932
			Temp. Rise	32	32	32	32	32
			Watts	87	137	186	235	285
	High	1106	CFM	1063	1067	1070	1074	1077
			Temp. Rise	27	27	27	27	27
			Watts	119	176	233	289	347
Heating 2nd Stage	Low	900	CFM	880	880	879	878	877
			Temp. Rise	51	51	51	51	50
			Watts	71	121	172	223	273
	Medium Low ^(a)	1050	CFM	1037	1032	1027	1021	1016
			Temp. Rise	43	44	44	43	44
			Watts	108	162	216	269	323
	Medium	1200	CFM	1179	1175	1171	1168	1164
			Temp. Rise	39	39	39	39	39
			Watts	165	226	287	347	408
	High	1400	CFM	1367	1366	1364	1363	1361
			Temp. Rise	33	33	33	33	33
			Watts	240	311	381	451	522

^(a) Factory Setting

Table 2. S8V2B060M4P Cooling Airflow

S8V2B060M4P Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter (iwc)							
Outdoor Tonnage - "Odt" (tons)	Airflow Setting - "CPC" (CFM/ton)		EXTERNAL STATIC PRESSURE (IN. W. C.)				
			0.1	0.3	0.5	0.7	0.9
1.5	450	CFM / WATTS	650 / 42	649 / 77	653 / 116	658 / 159	659 / 205
	420	CFM / WATTS	600 / 36	599 / 69	604 / 107	609 / 149	611 / 195
	400	CFM / WATTS	567 / 33	566 / 65	571 / 102	576 / 143	578 / 189
	370	CFM / WATTS	518 / 28	516 / 59	521 / 94	526 / 135	529 / 180
	350	CFM / WATTS	484 / 25	483 / 55	488 / 90	493 / 130	496 / 176
	330	CFM / WATTS	451 / 23	449 / 51	455 / 86	460 / 126	462 / 171
	310	CFM / WATTS	417 / 20	415 / 48	421 / 82	426 / 122	429 / 167
	290	CFM / WATTS	325 / 15	325 / 41	340 / 75	346 / 115	326 / 161
2.0	450	CFM / WATTS	892 / 81	892 / 124	895 / 171	898 / 220	899 / 272
	420	CFM / WATTS	828 / 69	828 / 110	832 / 154	835 / 202	836 / 252
	400	CFM / WATTS	785 / 61	785 / 101	789 / 144	792 / 190	793 / 240
	370	CFM / WATTS	720 / 51	720 / 89	724 / 130	728 / 174	729 / 222
	350	CFM / WATTS	677 / 45	676 / 81	681 / 121	685 / 164	686 / 212
	330	CFM / WATTS	633 / 40	632 / 74	637 / 113	641 / 155	643 / 202
	310	CFM / WATTS	589 / 35	588 / 68	593 / 105	598 / 147	600 / 193
	290	CFM / WATTS	545 / 31	544 / 62	549 / 98	554 / 139	556 / 185

Table 2. S8V2B060M4P Cooling Airflow (continued)

S8V2B060M4P Furnace Cooling Airflow (CFM) and Power (Watts) vs. External Static Pressure with Filter (iwc)							
Outdoor Tonnage - "Odt" (tons)	Airflow Setting - "CPC" (CFM/ton)		EXTERNAL STATIC PRESSURE (IN. W. C.)				
			0.1	0.3	0.5	0.7	0.9
2.5	450	CFM / WATTS	1127 / 142	1128 / 193	1131 / 248	1133 / 305	1132 / 365
	420	CFM / WATTS	1040 / 117	1042 / 165	1045 / 217	1047 / 271	1046 / 327
	400	CFM / WATTS	997 / 105	998 / 152	1001 / 202	1003 / 255	1003 / 310
	370	CFM / WATTS	918 / 87	919 / 131	922 / 178	925 / 228	925 / 281
	350	CFM / WATTS	865 / 76	865 / 118	869 / 164	872 / 212	873 / 264
	330	CFM / WATTS	812 / 66	812 / 106	816 / 150	819 / 197	820 / 247
	310	CFM / WATTS	758 / 57	758 / 95	762 / 138	766 / 183	767 / 232
	290	CFM / WATTS	704 / 49	703 / 86	708 / 126	712 / 170	713 / 218
3.0	450	CFM / WATTS	1355 / 228	1358 / 288	1360 / 352	1361 / 417	1358 / 485
	420	CFM / WATTS	1265 / 190	1267 / 247	1269 / 307	1270 / 369	1268 / 433
	400	CFM / WATTS	1204 / 167	1205 / 222	1208 / 279	1209 / 339	1208 / 402
	370	CFM / WATTS	1111 / 137	1113 / 188	1116 / 242	1117 / 299	1116 / 358
	350	CFM / WATTS	1049 / 119	1050 / 168	1053 / 220	1055 / 274	1055 / 331
	330	CFM / WATTS	987 / 103	987 / 149	991 / 199	993 / 251	993 / 306
	310	CFM / WATTS	923 / 88	924 / 132	927 / 180	930 / 230	930 / 283
	290	CFM / WATTS	860 / 75	860 / 117	864 / 162	867 / 211	867 / 262
3.5	450	CFM / WATTS	1576 / 345	1580 / 414	1582 / 486	1582 / 560	1578 / 636
	420	CFM / WATTS	1474 / 286	1477 / 351	1479 / 419	1479 / 489	1476 / 561
	400	CFM / WATTS	1405 / 251	1408 / 314	1410 / 379	1410 / 446	1408 / 516
	370	CFM / WATTS	1300 / 204	1302 / 262	1305 / 324	1305 / 387	1303 / 453
	350	CFM / WATTS	1229 / 177	1231 / 232	1234 / 291	1235 / 351	1233 / 414
	330	CFM / WATTS	1158 / 152	1159 / 204	1162 / 260	1163 / 319	1162 / 379
	310	CFM / WATTS	1085 / 129	1087 / 179	1090 / 232	1092 / 288	1091 / 346
	290	CFM / WATTS	1013 / 109	1014 / 157	1017 / 207	1019 / 261	1019 / 316
4.0 ^(a)	450	CFM / WATTS	1791 / 497	1795 / 575	1797 / 656	1796 / 739	1791 / 823
	420	CFM / WATTS	1677 / 411	1681 / 485	1683 / 561	1683 / 639	1678 / 719
	400	CFM / WATTS	1601 / 360	1604 / 430	1606 / 503	1606 / 578	1602 / 655
	370	CFM / WATTS	1484 / 291	1487 / 357	1489 / 425	1489 / 496	1486 / 568
	350 ^(a)	CFM / WATTS	1405 / 251	1408 / 314	1410 / 379	1410 / 446	1408 / 516
	330	CFM / WATTS	1325 / 215	1327 / 274	1330 / 336	1331 / 401	1328 / 467
	310	CFM / WATTS	1244 / 182	1246 / 238	1249 / 297	1250 / 359	1248 / 422
	290	CFM / WATTS	1163 / 153	1164 / 206	1167 / 262	1169 / 321	1167 / 381

^(a) Factory Setting

General Features

COMMUNICATING MODE

Furnace is shipped ready to be connected in communicating mode.

A/T LINK360A2VVUA Link Smart Thermostat and System Controller must be ordered separately.

COMFORT CONTROL

Link communicating technology seamlessly connects each of the system's components, allowing for advanced diagnostics, system performance updates, and optional remote monitoring that can help keep the system running at optimal performance levels throughout its lifetime.

ALTERNATE 24V MODE

Furnace is field configurable to 24V non-communicating mode.

NATURAL GAS MODELS

Central Heating furnace designs are certified by Intertek for both natural and L.P. gas. Limit setting and rating data were established and approved under standard rating conditions using American National Standards Institute standards.

SAFE OPERATION

The Integrated System Control is a solid state device which continuously monitors for presence of flame when the system is in the heating mode of operation. Dual solenoid combination gas valve and regulator provide additional safety.

QUICK HEATING

Durable, cycle tested, heavy gauge **tubular aluminized steel heat exchanger** quickly transfers heat to provide warm conditioned air to the structure. **Low energy power vent blower**, to increase efficiency and provide a discharge of gas fumes to the outside.

BURNERS

Multiport, Inshot burners will give years of quiet and efficient service. All models can be converted to **L.P. gas** with LP conversion kit.

INTEGRATED SYSTEM CONTROL

Exclusively designed operational program provides total control of furnace limit sensors, blowers, gas valve, flame control and includes self diagnostics for ease of service.

ENERGY EFFICIENT OPERATION

Air-Tite™ cabinet design is certified to <1% air leakage per ASHRAE 193 "Method of Test for Determining the Airtightness of HVAC Equipment."

AIR DELIVERY

The highly efficient, variable speed blower motor delivers consistent airflow and will switch from heating to cooling speeds on demand from the room thermostat.

STYLING

Heavy gauge steel and "wrap-around" cabinet construction is used in the cabinet with baked-on enamel finish for strength and beauty. Every orientation has at least two venting options. There are no knockouts on cabinet.

FEATURES AND GENERAL OPERATION

The S-Series furnace utilizes a Silicon Nitride Hot Surface Ignition system, which eliminates the waste of a constant burning pilot. The integrated system control lights the main burners upon a demand for heat from the room thermostat. Complete front service access.

- a. Low energy power venter
- b. Vent proving pressure switches.

Features and Benefits

LINK COMMUNICATION OR 24 VOLT CONTROL

Seamless connection between system components to monitor system performance and efficiency

Diagnostics and configuration capability through Mobile App

Field configurable to 24 volt non-communicating mode

80% AFUE on S8V2 FURNACE MODELS

Lowers utility bills

ELECTRICALLY EFFICIENT

Efficient airflow design reduces electrical energy use

34 INCH TALL

Lighter, easier to move and fit into tight spaces like short basements or tight closets

Works great with larger, high-efficiency coils

No knockouts

4-WAY MULTI-POISE

12 SKU's — Upflow / Downflow / Horizontal Left / Horizontal Right

Added application flexibility and reduction in specification errors

AIRFLOW

At least 400 CFM/ton at 0.5 in. H₂O external static pressure

REGULATORY

All models are air tight; 1% or less air leakage as per ASHRAE 193

Open vestibule design provides a full 34" high open vestibule for ease of installation and service

DIMENSIONS

Width is industry standard: 17.5"

Depth remains approximately 28"

Cabinet is compatible with industry standard coils, as well as, other accessories

INTEGRATED FURNACE CONTROL

Setup / Status / Diagnostics / Digital Display

No dip switches

Last six errors stored

Dry contact EAC and HUM connections

All Molex connections; no spade terminals

Low voltage labeled above and below

Rain shield over IFC keeps condensate off the control

TUBULAR ALUMINIZED STEEL HEAT EXCHANGER

VORTICA II BLOWER, DESIGNED EXCLUSIVELY FOR THE S-SERIES FURNACE

Improved airflow efficiency

Durable, easy to clean, housing

Single piece belly band/ motor arm assembly

Blower deck has full-length rails for easy removal and replacement, regardless of poise

FOUR-WAY MULTI-POISE (UPFLOW, DOWNFLOW, HORIZONTAL LEFT AND RIGHT)

Easier to specify

Shipped ready to install (no conversion kits required)

Every model has at least two venting options

About Trane and American Standard Heating and Air Conditioning

Trane and American Standard create comfortable, energy efficient indoor environments for residential applications. For more information, please visit www.trane.com or www.americanstandardair.com.



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