

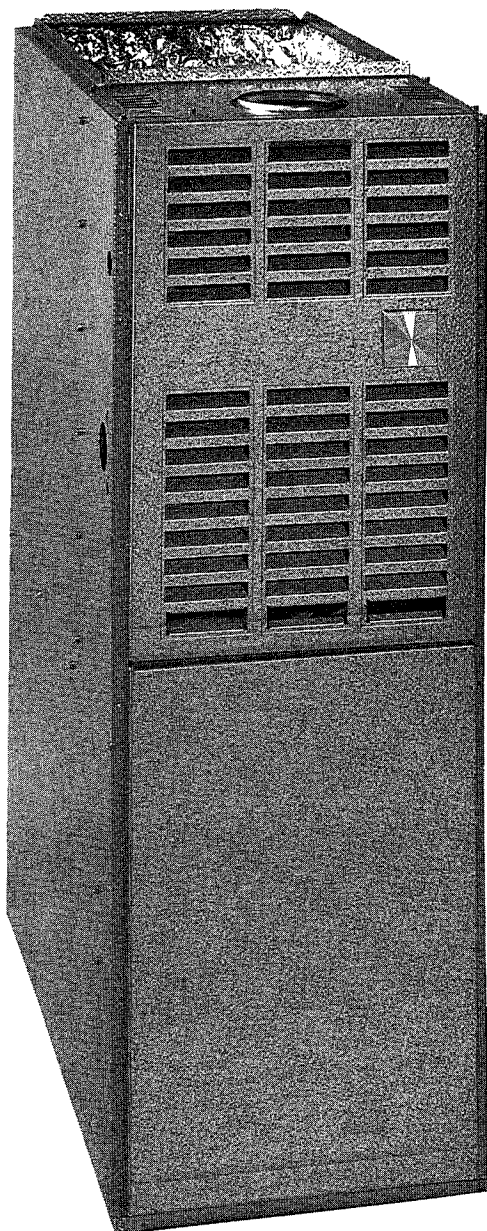


Heating & Cooling

HIGH-EFFICIENCY SIDEWALL VENTABLE UPFLOW FURNACE

370AAV

Sizes 060 thru 120
Series A



Designed for efficiency, operating comfort, and easy installability, the 370AAV Sidewall Ventable Furnace meets all your customer needs. Our 40-in. cabinet, 4-pass aluminized heat exchangers, and inshot burners offer proven reliability. Our high-capacity inducer and electronic control board provide the venting flexibility of either Category I or Category III (sidewall vent) installations. The unit's ease and economy of installation, ease of serviceability, economical initial cost, and short payback time put it in a class well ahead of the competition. The model 370AAV Gas Furnace has the kind of overall performance needed in today's homes.

FEATURES

EFFICIENCY—The 370AAV Sidewall Ventable Gas Furnace provides the efficiency customers want with 80.0% AFUE.

HOT SURFACE IGNITION—No pilot to waste gas with this field proven ignition system.

ALUMINIZED HEAT EXCHANGER—The patented 4-pass heat exchanger is made of aluminized steel and backed by a 10-year Limited Warranty.

INTELLIGENT CONTROL—The 370AAV Furnace has an intelligent control that monitors the operation of the furnace. This control also has a component test feature that enables the servicing technician to verify operation of the control, the inducer, the hot surface ignitor, and high-, medium- and low-speed blower operation. The control features a 3-amp fuse that protects the transformer and control. We guarantee the reliability of the control with a 3-year Limited Warranty.

40-IN. HEIGHT—The 370AAV Furnace cabinet height is only 40 in. This simplifies installation in alcoves, attics, basements (ideal for short basement), closets, and utility rooms, especially with a taller high-efficiency cooling coil.

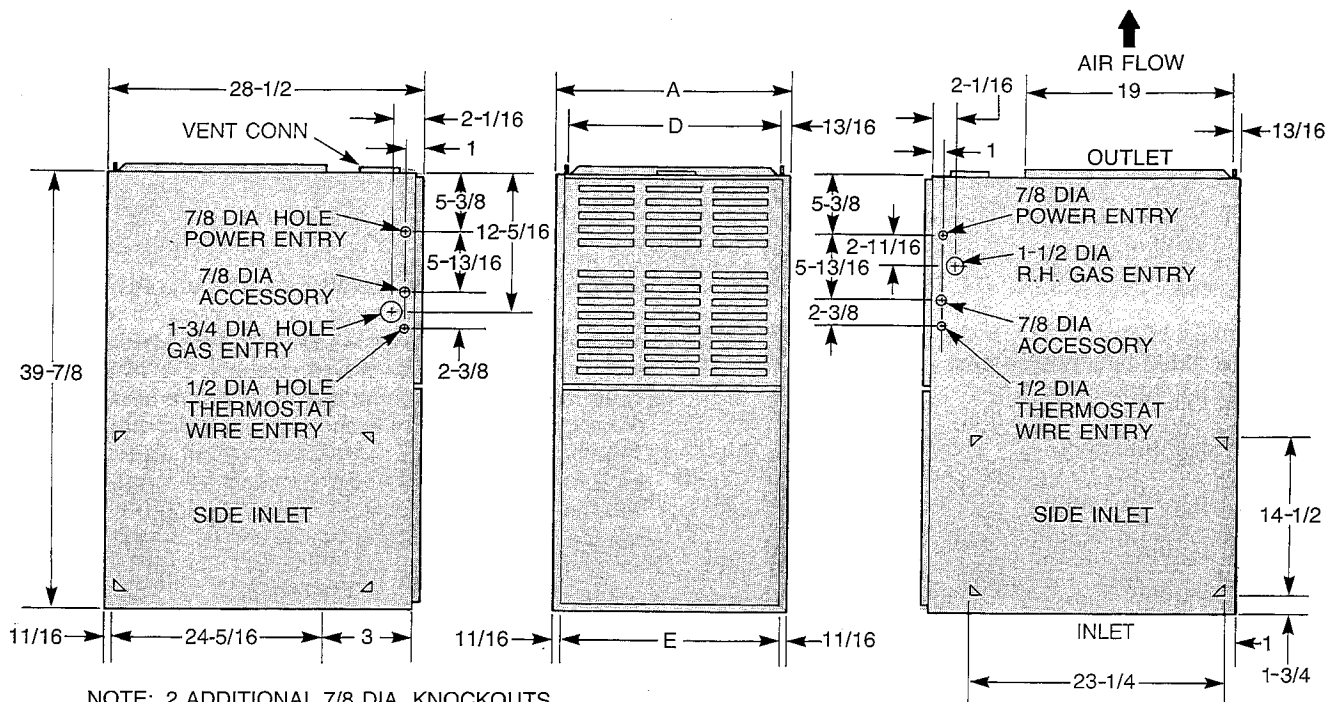
EMBOSSED CLEAR COAT CABINET—The 370AAV uses clear coat, embossed sheet metal for the cabinet. We ensure its durability by using a galvanized steel substrate to provide superior rust protection.

PATENTED DRAFT SAFEGUARD—Our induced-combustion furnace has a patented draft safeguard switch. The safeguard switch will stop furnace operation if the vent system becomes blocked or is not operating properly (Category I installations).

EASY INSTALLATION—The model 370AAV has many features that make installation easier: Category I or Category III venting, left or right gas and electrical connections, heating and cooling blower speed selector, matching coil sizes, accessory low-voltage connections, and many more.

QUIET OPERATION—A soft mount inducer assembly and slow-opening gas valve reduce sound level.

VENTING—For installation flexibility, furnace venting can be Category I (vertical) or, with a minor field modification kit, Category III (horizontal or vertical) using high temperature plastic pipe.



A88367

DIMENSIONS (In.)

UNIT SIZE	A	D	E	VENT CONNECTION*	SHIPPING WEIGHT
024060	14-3/16	12-9/16	12-11/16	4	132
036060	14-3/16	12-9/16	12-11/16	4	134
042080	17-1/2	15-7/8	16	4	150
048080	21	19-3/8	19-1/2	4	154
036100	17-1/2	15-7/8	16	4	160
048100	21	19-3/8	19-1/2	4	166
060100	24-1/2	22-7/8	23	4	185
060120	24-1/2	22-7/8	23	5	194

*Refer to the furnace Installation Instructions for proper venting procedures.

SPECIAL GAS VENTING*

MAXIMUM HORIZONTAL VENT LENGTH†	NO. OF 90° LONG RADIUS (SWEEP) ELBOWS
40 ft	4

* Listed for Category III appliances per UL1738 (high temperature plastic).

† For 3-in. vents (040 through 080 heating sizes), reduce the vent length 5 ft for each additional 90° elbow. Add 5 ft to the allowable vent length for each 90° elbow less than 4. Length adjustment for 4-in. vents (100 and 120 heating sizes) is 6 ft per sweep elbow.

CLEARANCES (In.)

UNIT SIZE	060	080	100 and 120
Sides—Single-Wall Vent (Category I)	1	0	0
Type B-1 Double-Wall Vent (Category I)	0	0	0
Special Gas Vents*—Diameter	3	3	4
Clearance	0	0	2‡
Back	0	0	0
Top of Plenum	1	1	1
Vent Connector—Single-Wall (Category I)	6	6	6
Type B-1 Double-Wall Vent (Category I)	1	1	1
Special Gas Vents*—Diameter	3	3	4
Clearance	5	5	9
Front†—Single-Wall (Category I)	6	6	6
Type B-1 Double-Wall Vent (Category I)	3	3	3
Special Gas Vents*—Diameter	3	3	4
Clearance	5	5	9
Service	30	30	30

* Listed for Category III appliances per UL 1738 (high temperature plastic).

† A minimum 3-in. front clearance is needed for combustion-air and ventilation-air entry.

‡ May be 0 for 24-in. wide furnaces.



SPECIFICATIONS

UNIT SIZE		024060	036060	042080	048080	036100	048100	060100	060120
RATINGS AND PERFORMANCE									
Gas Input (Btuh)*		60,000	60,000	80,000	80,000	100,000	100,000	100,000	120,000
Output Capacity (Btuh)†	Nonweatherized ICS	48,000	48,000	65,000	65,000	81,000	81,000	81,000	97,000
AFUE%†	Nonweatherized ICS	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
Certified Temperature Rise Range (°F)		40—70	25—55	35—65	30—60	60—90	40—70	25—55	40—70
Certified External Static Pressure		Heat/Cool	0.12/0.50	0.12/0.50	0.15/0.50	0.15/0.50	0.20/0.50	0.20/0.50	0.20/0.50
Airflow CFM‡	Heating	740	1175	1150	1445	1175	1410	1720	1730
	Cooling	880	1300	1335	1740	1210	1575	2210	1980
ELECTRICAL									
Unit Volts—Hertz—Phase		115—60—1							
Operating Voltage Range		104—127							
Maximum Unit Amps		8.2	11.4	11.7	13.5	10.5	13.2	19.0	18.2
Maximum Wire Length (Measured 1 Way)		Ft	45	32	31	27	35	28	30
Minimum Wire Size		14						12	12
Maximum Fuse Size		15						20	20
Transformer (24v)		40va							
External Control		Heating	19va						
Power Available		Cooling	35va						
Air Conditioning Blower Relay		Standard							
CONTROLS									
Limit Control		SPST (Auto-Reset)							
Heating Blower Control		Solid-State Time Operation							
Burners (Monoport)		3	4	4	5	5	6		
Gas Connection Size		1/2-in. NPT							
GAS CONTROLS									
Redundant Gas Valve		White-Rodgers							
		Min Inlet Pressure (In. wc)	4.5 (Natural Gas)						
		Max Inlet Pressure (In. wc)	13.6 (Natural Gas)						
Ignition Device		Hot Surface							
BLOWER DATA									
Direct-Drive Motor HP (PSC)		1/5	1/3	1/3	1/2	1/3	1/2	3/4	3/4
Motor Full Load Amps		2.9	5.8	5.8	7.9	5.8	7.9	11.1	11.1
RPM (Nominal)—Speeds		1075—4	1075—4	1075—4	1075—4	1075—4	1075—4	1075—4	1075—4
Blower Wheel Diameter x Width (In.)		10 x 6	10 x 6	10 x 7	10 x 8	10 x 7	10 x 8	11 x 10	11 x 10
Recommended Filter Size (In.)—Field Supplied		(1) 16 x 25 x 1			(1) 20 x 25 x 1	(1) 16 x 25 x 1	(1) 20 x 25 x 1	(2) 16 x 25 x 1	
FACTORY-AUTHORIZED DEALER-INSTALLED ACCESSORIES									
Twinning Kit		N/A			KGATW0201HSI	N/A	KGATW0201HSI		
Category III Vent Conversion Kit		KGASW01012SP							KGASW02012SP
High-Altitude Pressure Switch Kit**		KGAHA5501PSW							
Gas Conversion Kit—Natural-to-Propane		KGANP24012SP							
Gas Conversion Kit—Propane-to-Natural		KGAPN20012SP							
Side Filter Rack (With Washable Filter)		KGAFR0101ALL (Filter Size 16 x 25 x 1)							
Return Filter Cabinet (With Washable Filters)		KGARP0101ALL (Filter Size 2—20 x 25 x 1)							

* Gas input ratings are certified for elevations to 2000 ft. For elevations above 2000 ft, reduce ratings 4% for each 1000 ft above sea level. Refer to National Fuel Gas Code Table F4. In Canada, derate the unit 10% for elevations 2000 ft to 4500 ft above sea level.

† Tentative capacity in accordance with U.S. Government DOE test procedures.

‡ Air delivery above 1800 CFM requires that both sides, or a combination of 1 side and bottom, or bottom only of the furnace be used for return air. A filter is required for each return-air supply.

** 5500 ft and above for Category I or 4000 ft and above for Category III vents.

ICS—Isolated Combustion System

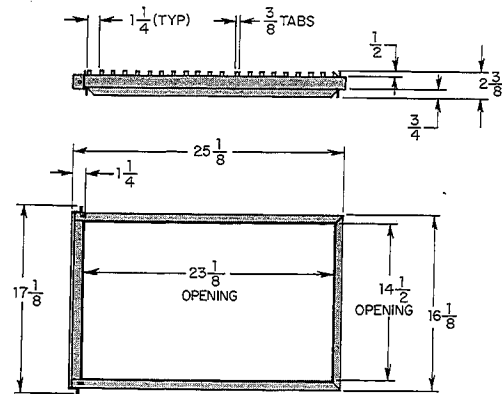
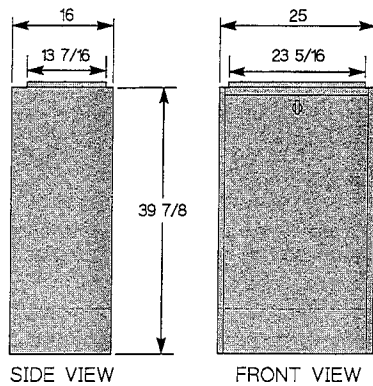
N/A—Not Applicable



**MEETS DOE RESIDENTIAL
CONSERVATION SERVICES
PROGRAM STANDARDS.**

**Before purchasing this appliance, read important
energy cost and efficiency information available
from your retailer.**

DIMENSIONAL DRAWINGS OF OPTIONAL RETURN-AIR FILTER CABINET AND SIDE FILTER RACK



A93078

A80199

AIR DELIVERY—CFM (With Filter)*

UNIT SIZE	BLOWER MOTOR HP	SPEED	EXTERNAL STATIC PRESSURE (IN. WC)							
			0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
024060	1/5 PSC	High	1040	1010	975	935	880	810	735	640
		Med-High	855	830	800	765	715	660	600	490
		Med-Low	745	715	690	650	605	550	475	385
		Low	610	590	565	535	485	425	375	310
036060	1/3 PSC	High	—	1485	1430	1365	1300	1220	1140	1045
		Med-High	—	1355	1305	1260	1200	1135	1055	960
		Med-Low	1175	1170	1140	1110	1055	1005	950	860
		Low	1025	1015	995	965	930	885	825	745
042080	1/3 PSC	High	1585	1540	1470	1410	1335	1220	1110	980
		Med-High	1355	1325	1280	1230	1175	1090	1015	910
		Med-Low	1150	1125	1105	1085	1035	965	895	785
		Low	960	950	935	910	880	815	715	580
048080	1/2 PSC	High	2010	1950	1875	1810	1740	1660	1550	1455
		Med-High	1675	1660	1625	1600	1545	1490	1395	1295
		Med-Low	1445	1430	1415	1400	1370	1325	1265	1170
		Low	1260	1260	1260	1250	1210	1180	1115	1030
036100	1/3 PSC	High	1490	1435	1370	1300	1210	1135	1020	880
		Med-High	1375	1325	1265	1195	1125	1055	945	810
		Med-Low	1205	1175	1130	1075	1025	925	830	675
		Low	1045	1020	1000	960	905	820	700	565
048100	1/2 PSC	High	1880	1815	1745	1690	1575	1500	1400	1265
		Med-High	1660	1615	1570	1505	1435	1355	1260	1170
		Med-Low	1455	1410	1375	1350	1290	1235	1145	985
		Low	1265	1265	1240	1210	1180	1110	995	855
060100	3/4 PSC	High	2475	2405	2330	2265	2210	2130	2040	1945
		Med-High	2055	2025	2000	1965	1930	1865	1795	1720
		Med-Low	1725	1720	1705	1685	1665	1630	1585	1525
		Low	1500	1515	1510	1500	1480	1460	1415	1370
060120	3/4 PSC	High	—	2210	2130	2055	1980	1895	1795	1680
		Med-High	2015	1975	1925	1880	1805	1735	1655	1555
		Med-Low	1730	1710	1670	1635	1590	1535	1470	1385
		Low	1525	1520	1495	1450	1410	1375	1315	1245

*Air delivery above 1800 CFM requires that both sides, or a combination of 1 side and bottom, or bottom only of the furnace to be used for return air. A filter is required for each return-air supply opening.

—Indicates unstable operating conditions.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE
WITH INSTALLATION INSTRUCTIONS

CANCELS: New

