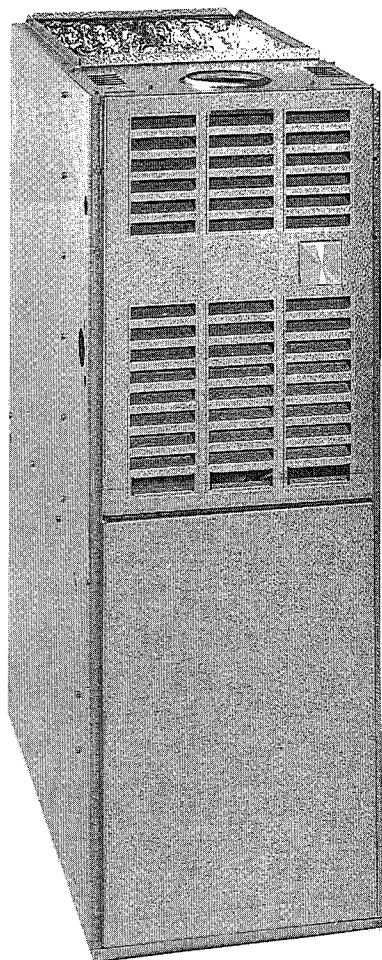


bryant**Bryant**
Air ConditioningIndianapolis, IN
City of Industry, CA**MID-EFFICIENCY UPFLOW
INDUCED-COMBUSTION
FURNACE****Model 383KAV**Sizes 035 thru 125
Series B

A90161

This is our special induced-combustion furnace manufactured to meet the requirements of builders and budget-minded consumers. Lower cost with the same quality and efficiency you expect.

FEATURES

EFFICIENCY—The 383KAV Induced-Combustion Gas Furnace provides the efficiency customers want with 80% AFUE.

HOT SURFACE IGNITION—This field-proven ignition system will save energy and improve reliability.

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

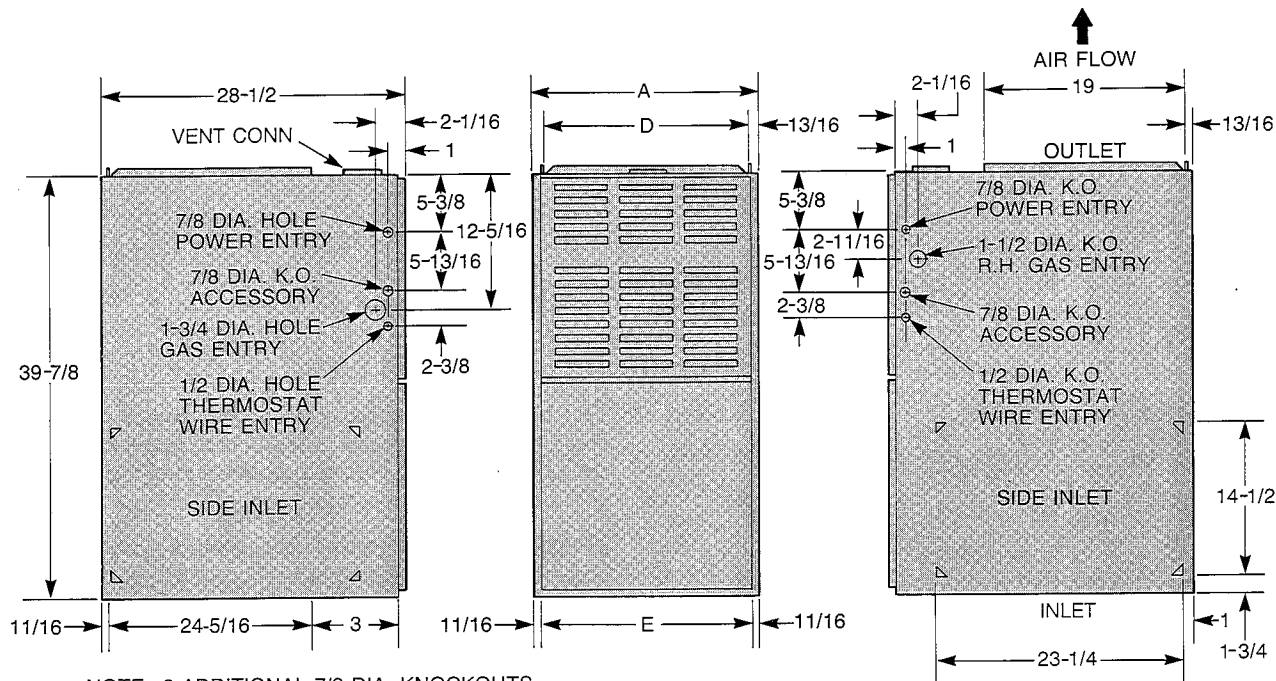
INTELLIGENT CONTROL BOARD—The 383KAV Furnace has an intelligent control board that monitors the operation of the furnace. This control board also has a self-test feature that enables the servicing technician to verify operation of the board itself, the inducer, the hot-surface ignitor, both high- and low-speed blower operation, and the humidifier. The board also features a 3-amp fuse that protects the transformer and board.

40-IN. HEIGHT—The 383KAV is assembled in a cabinet only 40 in. high. This simplifies installation in alcoves, attics, basements (ideal for short basement), closets, and utility rooms, especially with a high-efficiency cooling coil.

CABINET—An embossed galvanized steel with a clear coating that surpasses our 200-hour high-humidity test. It provides superior rust and humidity 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.

EASY INSTALLATION—The Model 383KAV has many features that make installation easier: left or right gas and electrical connections, blower speed selector, matching coil sizes, accessory low-voltage connections, and many more.



NOTE: 2 ADDITIONAL 7/8 DIA. KNOCKOUTS ARE LOCATED IN THE TOP PLATE

NOTE: AIR DELIVERY ABOVE 1800 CFM REQUIRES THAT BOTH SIDES OF FURNACE BE USED, OR A COMBINATION OF ONE SIDE AND BOTTOM, OR BOTTOM ONLY FOR RETURN AIR.

A88367

DIMENSIONS (In.)

SIZE	A	D	E	VENT CONNECTION	SHIPPING WEIGHT
024035	14-3/16	12-9/16	11-11/16	4	114
036035	14-3/16	12-9/16	11-11/16	4	116
024055	14-3/16	12-9/16	11-11/16	4	124
036055	14-3/16	12-9/16	11-11/16	4	126
042075	17-1/2	15-7/8	16	4	140
048075	21	19-3/8	18-1/2	4	144
036090	17-1/2	15-7/8	16	4	150
048090	21	19-3/8	18-1/2	4	156
060090	24-1/2	22-7/8	22	4	172
048110	21	19-3/8	18-1/2	5	168
060110	24-1/2	22-7/8	22	5	182
060125	24-1/2	22-7/8	22	5	192

NOTES:

1. A factory-supplied panel covers the back side of the accessory return-air cabinet that extends above the furnace.
2. Refer to the furnace venting instructions for proper venting procedures.

CLEARANCES (In.)

SIZE	035 & 055	075 through 125
Sides—Single-Wall Vent	1	0
Type B-1 Double-Wall Vent	0	0
Back	0	0
Top of Plenum	1	1
Vent Connector—Single-Wall	6	6
Type B-1 Double-Wall	1	1
Front*Single-Wall	6	6
Type B-1 Double-Wall Vent	3	3
Service	30	30

*The 3-in. front clearance is needed for combustion-air and ventilation-air entry.



MEETS DOE RESIDENTIAL CONSERVATION SERVICES PROGRAM STANDARDS.

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

SPECIFICATIONS

SIZE	024035	036035	024055	036055	042075	048075
RATINGS AND PERFORMANCE						
Input Btuh*	44,000	44,000	66,000	66,000	88,000	88,000
Capacity (Btuh)† Nonweatherized (ICS)**	35,000	35,000	53,000	53,000	71,000	71,000
AFUE† Nonweatherized (ICS)**	80.0	80.0	80.0	80.0	80.0	80.0
Certified Temperature Rise Range °F	25—55	15—45	40—70	30—60	40—70	30—60
Certified External Static Pressure Heat/Cool	0.10/0.50	0.10/0.50	0.12/0.50	0.12/0.50	0.15/0.50	0.15/0.50
Airflow cfm‡	Heating	855	1070	830	1175	1150
	Cooling	930	1270	950	1300	1335
ELECTRICAL						
Unit Volts—Hertz—Phase	115—60—1					
Operating Voltage Range	104—127					
Maximum Unit Ampacity	6.0	8.3	5.9	8.7	9.0	10.4
Maximum Wire Length (Measured 1 Way) Ft	47	34	47	32	31	27
Minimum Wire Size	14					
Maximum Fuse Size	15					
Transformer (24v)	40VA					
External Control Heating	12VA					
Power Available Cooling	35VA					
Air-Conditioning Blower Relay	Standard					
CONTROLS						
Limit Control	SPST					
Heating Blower Control	Solid-State Time Operation					
Burners (Monoport)	2	2	3	3	4	4
Gas Connection Size	1/2-in. NPT					
GAS CONTROLS						
Gas Valve (Redundant)	White Rodgers					
	Min Inlet Pressure	4.5 in. wc				
	Max Inlet Pressure	13.6 in. wc				
Ignition Device	Hot Surface					
BLOWER DATA						
Direct-Drive Motor HP—Type	1/5—PSC	1/3—PSC	1/5—PSC	1/3—PSC	1/3—PSC	1/2—PSC
Motor Full Load Amps	2.9	5.8	2.9	5.8	5.8	7.9
RPM (Nominal)—Speeds	1075—3	1075—4	1075—3	1075—4	1075—4	1075—4
Blower Wheel Diameter x Width	10 x 6	10 x 6	10 x 6	10 x 6	10 x 7	10 x 8
Filter Size—Permanent Washable (Supplied)	(1) 16 x 25 x 1					(1) 20 x 25 x 1
FACTORY-AUTHORIZED DEALER-INSTALLED ACCESSORIES						
Twinning Kit	N/A					KGATW0101HSI
Gas Conversion Kit—Natural-to-Propane	KGANP1701HSI					
Gas Conversion Kit—Propane-to-Natural	KGAPN1501HSI					
Side Filter Rack (With Washable Filter)	KGAFR0101ALL (Filter Size 16 x 25 x 1)					
Return-Air Filter Cabinet (With Washable Filters)	KGARP0101ALL (Filter Size 2—20 x 25 x 1)					

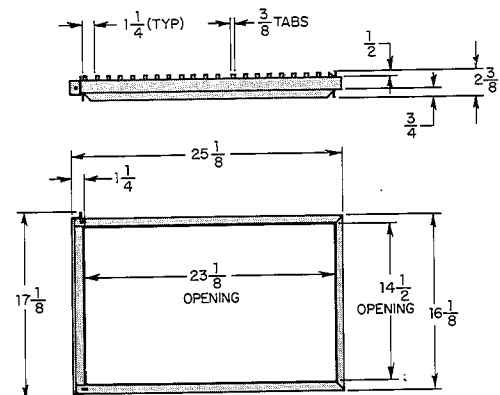
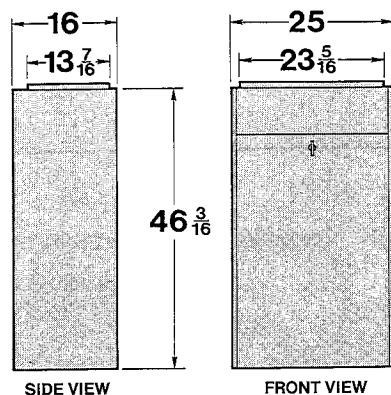
* Gas input ratings are certified for elevations to 2000 ft. For elevations above 2000 ft, reduce ratings 4% for each 1000 ft above sea level. Refer to National Fuel Gas Code Table F4.

† 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.

** Isolated Combustion System (ICS)

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



SPECIFICATIONS

SIZE		036090	048090	060090	048110	060110	060125
RATINGS AND PERFORMANCE							
Input Btuh*		110,000	110,000	110,000	132,000	132,000	154,000
Capacity (Btuh)†	Nonweatherized (ICS)**	89,000	89,000	89,000	107,000	107,000	124,000
AFUE†	Nonweatherized (ICS)**	80.0	80.0	80.0	80.0	80.0	80.0
Certified Temperature Rise Range °F		55—85	45—75	25—55	50—80	40—70	50—80
Certified External Static Pressure	Heat/Cool	0.20/0.50	0.20/0.50	0.20/0.50	0.20/0.50	0.20/0.50	0.20/0.50
Airflow cfm‡	Heating	1175	1415	1720	1645	1975	1695
	Cooling	1210	1575	2210	1620	1980	1905
ELECTRICAL							
Unit Volts—Hertz—Phase		115—60—1					
Operating Voltage Range		104—127					
Maximum Unit Ampacity		8.0	10.1	14.4	10.1	13.3	14.0
Maximum Wire Length (Measured 1 Way) Ft		35	28	31	28	33	31
Minimum Wire Size		14	14	12	14	12	12
Maximum Fuse Size		15	15	20	15	20	20
Transformer (24v)		40VA					
External Control	Heating	12VA					
Power Available	Cooling	35VA					
Air-Conditioning Blower Relay		Standard					
CONTROLS							
Limit Control		SPST					
Heating Blower Control		Solid-State Time Operation					
Burners (Monoport)		5	5	5	6	6	7
Gas Connection Size		1/2-in. NPT					
GAS CONTROLS							
Gas Valve (Redundant)		White Rodgers					
		Min Inlet Pressure		4.5 in. wc (Natural Gas)			
		Max Inlet Pressure		13.6 in. wc			
Ignition Device		Hot Surface					
BLOWER DATA							
Direct-Drive Motor HP—Type		1/3—PSC	1/2—PSC	3/4—PSC	1/2—PSC	3/4—PSC	3/4—PSC
Motor Full Load Amps		5.8	7.9	11.1	7.9	11.1	11.1
RPM (Nominal)—Speeds		1075—4	1075—4	1075—4	1075—4	1075—4	1075—4
Blower Wheel Diameter x Width		10 x 7	10 x 8	11 x 10	10 x 8	11 x 10	11 x 10
Filter Size—Permanent Washable (Supplied)		(1) 16 x 25 x 1	(1) 20 x 25 x 1	(1) 24 x 25 x 1	(1) 20 x 25 x 1		(1) 24 x 25 x 1
FACTORY-AUTHORIZED DEALER-INSTALLED ACCESSORIES							
Twining Kit		N/A	KGATW0101HSI				
Gas Conversion Kit—(Natural-to-Propane)		KGANP1701HSI					
Gas Conversion Kit—(Propane-to-Natural)		KGAPN1501HSI					
Side Filter Rack (With Washable Filter)		KGAFR0101ALL (Filter Size 16 x 25 x 1)					
Return-Air 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 100 ft above sea level. Refer to National Fuel Gas Code Table F4.

† 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.

** Isolated Combustion System (ICS).

AIR DELIVERY—CFM (With Filter)

FURNACE 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
024035	1/5 PSC	High	1030	1005	970	925	880	815	745	615
		Med-High	855	830	800	765	720	670	595	485
		Med-Low	755	725	695	650	605	555	475	400
036035	1/3 PSC	High	—	1485	1410	1350	1270	1180	1080	970
		Med-High	—	1375	1315	1240	1165	1095	1000	905
		Med-Low	1255	1205	1165	1120	1060	985	905	805
		Low	1070	1035	1010	970	930	875	805	720
024055	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
036055	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
042075	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
048075	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
036090	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
048090	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
060090	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
048110	1/2 PSC	High	1900	1845	1780	1705	1620	1530	1445	1320
		Med-High	1695	1645	1580	1520	1460	1385	1280	1155
		Med-Low	1460	1415	1375	1340	1290	1205	1110	—
		Low	1275	1260	1245	1230	1180	1135	—	—
060110	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
060125	3/4 PSC	High	—	2145	2060	1975	1905	1800	1680	1565
		Med-High	—	1950	1885	1815	1710	1645	1545	1435
		Med-Low	1730	1695	1660	1600	1540	1465	1400	1305
		Low	1520	1500	1460	1410	1360	1310	1245	1155

* 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.

— Indicates unstable operating conditions.



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE
WITH INSTALLATION INSTRUCTIONS