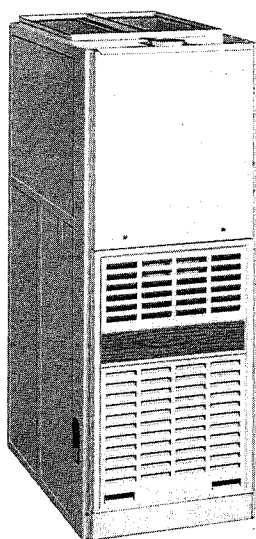
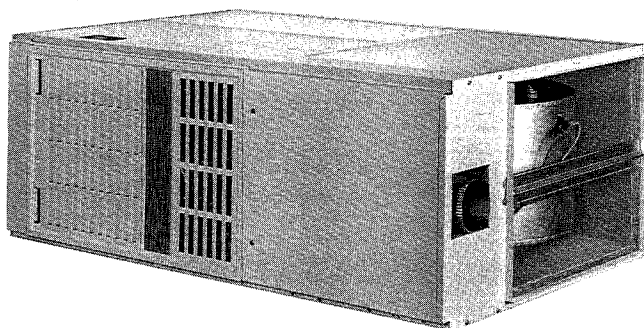


bryant**Bryant**
Air ConditioningIndianapolis, IN
City of Industry, CADELUXE HIGH-EFFICIENCY
DOWNFLOW/HORIZONTAL
INDUCED-COMBUSTION FURNACE**FORMULA
2000™****Model**
375A
Sizes 040
thru 120**FILE
COPY****DOWNFLOW****HORIZONTAL**

A unique induced-combustion design, a new four-pass heat exchanger, the first inshot burner system available in a mass-production downflow/horizontal furnace, and exclusive safety features; the FORMULA 2000™ High-Efficiency Downflow/Horizontal Furnace is without peer. It is indeed the new industry pacesetter. The Model 375A FORMULA 2000™ achieves the highest Annual Fuel Utilization Efficiency (AFUE) rating available today in a noncondensing downflow/horizontal furnace. Its ease and economy of installation, truly remarkable serviceability, surprisingly economical initial cost and short payback time, place it

in a class by itself. All these make the FORMULA 2000™ the obvious choice over any other high-efficiency furnace. This furnace has the kind of overall performance that others will be trying to imitate for years to come.

The Model 375A Downflow/Horizontal FORMULA 2000™ joins our Model 397H Upflow FORMULA 1000™ to cover all bases in the high-efficiency marketplace. Application flexibility is a tremendous plus.

FORMULA 2000 satisfies downflow applications standing straight up. Lying on either side, FORMULA 2000 satisfies horizontal-left and horizontal-right airflow applications with no conversion required.

FEATURES

VENTING—The FORMULA 2000™ Induced-Combustion Furnace operates at zero or slightly negative static pressure at the furnace-to-flue junction; therefore, it can be vented into any approved chimney or B1 vent, and like a natural-draft furnace, common-vented with an existing water heater. Most other currently available positive pressure-draft or forced-draft furnaces require installing an expensive sealed-vent system. The induced-combustion design also eliminates the need for a vent damper.

MONOPORT INSHOT BURNERS—Produce more precise air-to-gas mixture which burns cleaner than multiport or ribbon-type burners. The larger monoport of the inshot (or injection-type) burner seldom, if ever, clogs or needs cleaning.

FOUR-PASS HEAT EXCHANGER—Design breakthrough produces accelerated heat transfer. FORMULA 2000™ Furnaces extract heat that other furnaces waste up the flue. Aluminized for corrosion resistance. 20-year limited warranty.

SAFETY FEATURES—FORMULA 2000™ goes beyond most other furnaces with two exclusive safety features: (1) a draft safeguard switch detects a vent blockage or downdraft and (2) a self-checking switch proves combustion airflow before burner ignition.

SOLID-STATE BLOWER CONTROL OFF-TIMING ADJUSTABLE—By turning a knob. Timed blower operation stops annoying recycling common with thermally activated blower controls.

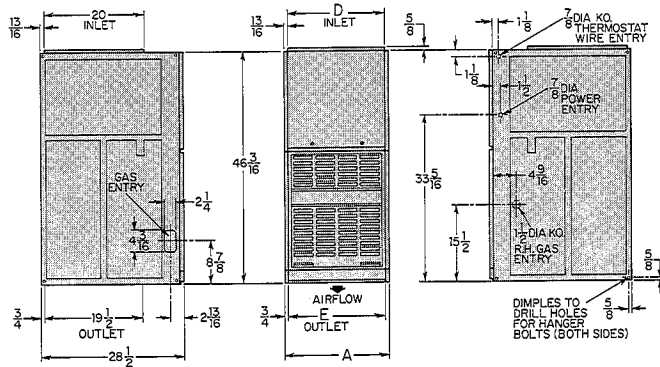
PRINTED-CIRCUIT CONTROL CENTER—The printed-circuit board and all internal wiring are factory installed. Screw terminals permit quick-connecting a humidifier, an air cleaner, and air-conditioning control circuits.

WRAPAROUND INSULATED CASING—Welded construction eliminates casing noise. Foil-faced insulation in the heat exchanger section cuts heat loss and double-density insulation in the blower section reduces noise levels. The low profile makes the FORMULA 2000™ a slide-in unit—ideal for downflow or horizontal replacement installations.

The design of all FORMULA 2000™ units is A.G.A. certified.

Form No. PDS 375A.40.2B

CLEARANCES (In Inches)



A82171

DIMENSIONS (In Inches)

Size	A	D	E	Vent Conn	Ship. Wt
036040	14-3/16	12-9/16	12-11/16	4	132
036060	14-3/16	12-9/16	12-11/16	4	142
048080	17-1/2	15-7/8	16	4	163
048100	17-1/2	15-7/8	16	4	178
060100	21	19-3/8	19-1/2	4	188
060120	24-1/2	22-13/16	23	5	208

Size	040 thru 120
DOWNFLOW (In Alcove or Closet)	
Sides—Single-Wall Vent (040 and 060)	1
Single-Wall Vent (080, 100, and 200)	0
Type-B1 Double-Wall Vent	0
Back	0
Top	1
Front*—Single-Wall Vent	6
Type-B1 Double-Wall Vent	3
Vent—Single-Wall	6
Type-B1 Double Wall	1
HORIZONTAL (In Alcove)	
Sides†	1
Back	0
Top—Single-Wall Vent	1
Type-B1 Double-Wall Vent	0
Front*	18
Vent—Single-Wall	6
Type-B1 Double-Wall	1
HORIZONTAL (In Closet)	
Sides†	1
Back	3
Top—Single-Wall Vent	2
Type-B1 Double-Wall Vent	2
Front*—Single-Wall Vent	6
Type-B1 Double-Wall Vent	3
Vent—Single-Wall	6
Type-B1 Double-Wall	1

*Provide a 30-in. service clearance in front of the furnace.

†Indicates supply or return sides when furnace is in the horizontal position.

SPECIFICATIONS

SIZE		036040	036060	048080
RATINGS AND PERFORMANCE				
Input Btuh*		48,000	71,000	95,000
Capacity†	Indoor	40,000	59,000	79,000
	Outdoor	38,000	57,000	77,000
AFUE	Indoor	81.6	82.3	82.2
	Outdoor	78.5	79.3	80.0
Certified Temperature Rise Range°F		25—55	45—75	45—75
Certified External Static Pressure Heat/Cool		0.10/0.50	0.12/0.50	0.15/0.50
Airflow Ft ³ /Min	Heating	900	953	1380
	Cooling	1100	1140	1470
ELECTRICAL				
Unit Volts—Hertz—Phase		115—60—1		
Minimum Wire Size		14		
Maximum Fuse Size		15		
Transformer (24-V)		40VA		
External Control	Heating	24VA		
Power Available	Cooling	37VA		
A/C Blower Relay		Std		
CONTROLS				
Limit Control		SPST		
Heating Blower Control		Solid-State Time Operation		
Burners (Monoport)		2	3	4
Gas Connection Size		1/2-inch NPT		
GAS CONTROLS				
Gas Valve (Redundant)		Model 646A-X		
	Min Inlet Pressure	4.5 inches wc		
	Max Inlet Pressure	13.6 inches wc		
Pilot Safety (Non-100% Shutoff)		Model 733B		
BLOWER DATA				
Direct-Drive Motor HP—Type		1/3—PSC	1/3—PSC	1/2—PSC
Motor Full Load Amps		5.4	5.4	8.3
RPM (Nominal)—Speeds		1050—4	1050—4	1050—4
Blower Wheel Dia x Width		10 x 6	10 x 6	10 x 8
Filter Size—Permanent Washable		(2) 16 x 20 x 1		
DEALER-INSTALLED OPTIONS				
Combustible Floor Base		305301-701		
LP (Propane) Conversion Kit		308001-701		
LP (Propane) to Natural Conversion Kit		307063-711		
Duct Flange Kit		305809-701		
Filter Retainer Kit		305813-701		

*Ratings shown are for elevations up to 2000 ft. For elevations above 2000 ft, rating should be reduced at the rate of 4% for each 1000 ft above sea level.

†Capacity in accordance with U.S. Government DOE test procedures.

SPECIFICATIONS

SIZE		048100	060100	060120
RATINGS AND PERFORMANCE				
Input Btuh*		119,000	119,000	143,000
Capacity†	Indoor	100,000	100,000	119,000
	Outdoor	98,000	97,000	117,000
AFUE	Indoor	83.0	83.0	82.7
	Outdoor	81.1	80.9	81.5
Certified Temperature Rise Range °F		60–90	60–90	50–80
Certified External Static Pressure Heat/Cool		0.20/0.50	0.20/0.50	0.20/0.50
Airflow Ft ³ /Min	Heating	1320	1350	1937
	Cooling	1506	1929	2010
ELECTRICAL				
Unit Volts—Hertz—Phase			115—60—1	
Minimum Wire Size			14	
Maximum Fuse Size			15	
Transformer (24-V)			40VA	
External Control	Heating		24VA	
Power Available	Cooling		37VA	
A/C Blower Relay			Std	
CONTROLS				
Limit Control			SPST	
Heating Blower Control			Solid-State Time Operation	
Burners (Monoport)		5	5	6
Gas Connection Size			1/2-inch NPT	
GAS CONTROLS				
Gas Valve (Redundant)			Model 646A-X	
	Min Inlet Pressure		4.5 inches wc	
	Max Inlet Pressure		13.6 inches wc	
Pilot Safety (Non-100% Shutoff)			Model 733B	
BLOWER DATA				
Direct-Drive Motor HP—Type		1/2—PSC	1/2—PSC	1/2—PSC
Motor Full Load Amps		8.2	9.9	8.5
RPM (Nominal)—Speeds		1050—4	1050—4	1050—4
Blower Wheel Dia x Width		10 x 8	11 x 10	(2) 10 x 6
Filter Size—Permanent Washable			(2) 16 x 20 x 1	
DEALER-INSTALLED OPTIONS				
Combustible Floor Base			305301-701	
LP (Propane) Conversion Kit			308001-701	
LP (Propane) to Natural Conversion Kit			307063-711	
Duct Flange Kit			305809-701	
Filter Retainer Kit			305813-701	

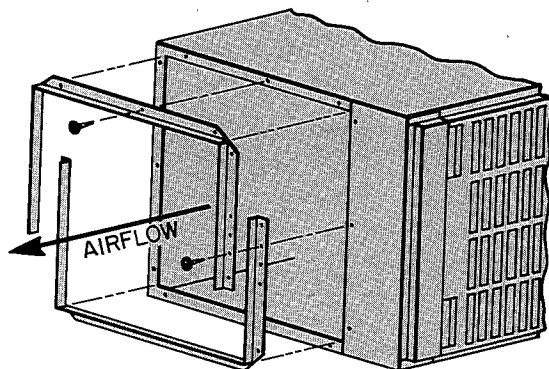
*Ratings shown are for elevations up to 2000 ft. For elevations above 2000 ft, rating should be reduced at the rate of 4% for each 1000 ft above sea level.

†Capacity in accordance with U.S. Government DOE test procedures.

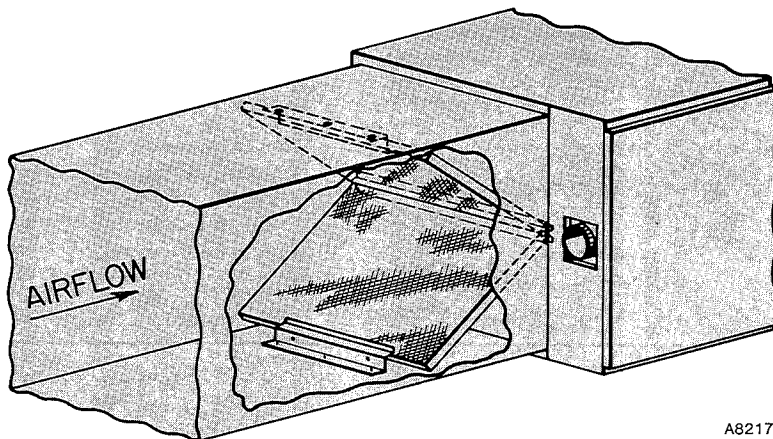


MEETS DOE RESIDENTIAL CONSERVATION SERVICES PROGRAM STANDARDS.

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



Optional Duct Flange Kit

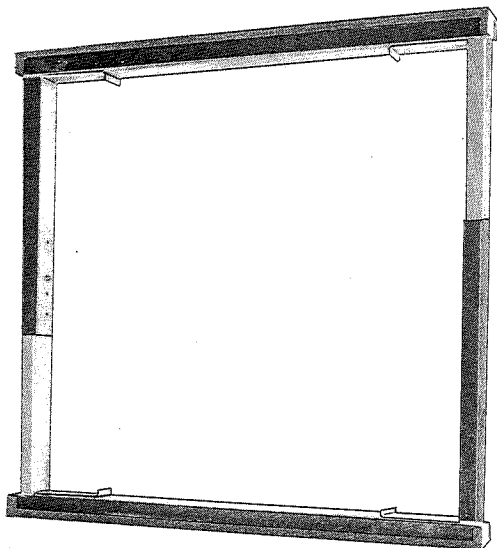


Optional Filter Retainer Kit

A82173

AIR DELIVERY—F³/Min (With Filters)

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
036040	1/3 PSC	High	—	1125	1110	1080	1030	980	910	840
		Med-High	—	975	985	965	940	895	845	790
		Med-Low	825	835	840	845	830	795	751	700
		Low	735	745	750	745	725	705	670	620
036060	1/3 PSC	High	—	1140	1130	1110	1085	1050	990	920
		Med-High	—	1015	1010	990	975	940	900	840
		Med-Low	885	885	880	880	870	850	820	770
		Low	805	800	800	790	780	760	735	695
048080	1/2 PSC	High	1790	1735	1720	1640	1560	1465	1375	—
		Med-High	1485	1445	1425	1400	1380	1320	1245	—
		Med-Low	1200	1185	1185	1170	1140	1105	1040	—
		Low	975	975	980	980	970	935	885	—
048100	1/2 PSC	High	1840	1770	1695	1605	1490	1395	1275	1145
		Med-High	1570	1515	1470	1420	1365	1300	1200	1090
		Med-Low	1310	1290	1260	1225	1180	1115	1025	920
		Low	1110	1100	1080	1045	1025	980	905	655
060100	1/2 PSC	High	—	1940	1920	1890	1845	1785	1725	1645
		Med-High	—	1410	1425	1420	1410	1375	1295	1210
		Med-Low	1195	1215	1225	1230	1210	1155	1115	1055
		Low	—	—	1100	1070	1040	1005	965	935
060120	1/2 PSC	High	—	2220	2145	2060	1955	1810	1700	1520
		Med-High	—	2000	1940	1870	1740	1630	1525	1395
		Med-Low	1890	1550	1795	1690	1600	1500	1380	1260
		Low	1715	1665	1590	1510	1415	1320	1215	1090



Assembled Floor Base

A78558

DIMENSIONAL DATA

Furnace Size	Plenum Opening*		Framed Floor Hole	
	Width	Depth	Width	Depth
036040 & 036060	11-13/16	20-7/8	13-1/8	22-1/16
048080 & 048100	15-1/8	20-7/8	16-7/16	22-1/16
060100	18-5/8	20-7/8	19-7/8	22-1/16
060120	22-1/8	20-7/8	23-7/16	22-1/16
With 518A Evaporator Coil Casing				
024	11-13/16	20-7/8	13-1/8	22-1/16
030	11-13/16	20-7/8	13-1/8	22-1/16
036	15-1/8	20-7/8	16-7/16	22-1/16
042	18-5/8	20-7/8	19-7/8	22-1/16
048	20-1/8	20-7/8	21-7/16	22-1/16
060	22-1/8	20-7/8	23-7/16	22-1/16

*The plenum should be constructed 1/8 inch smaller in width and depth than the plenum dimensions shown above.



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE
WITH INSTALLATION INSTRUCTIONS