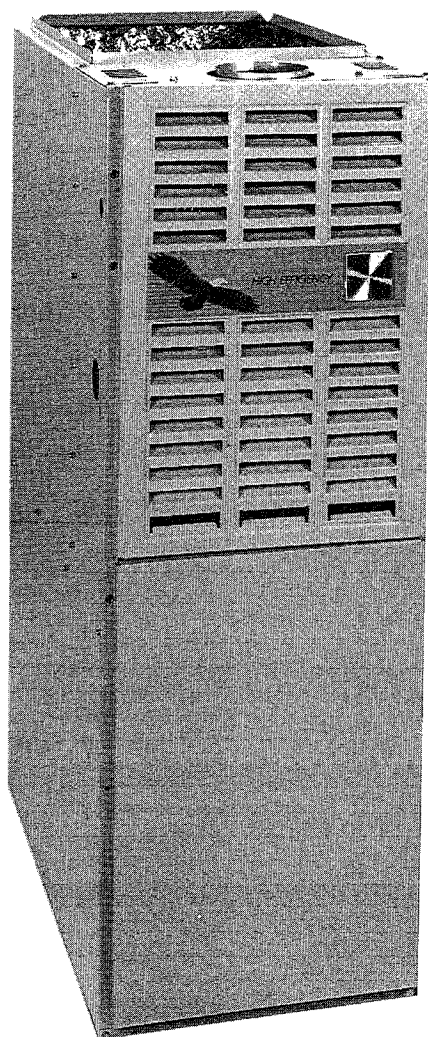


bryant**Bryant**
Air ConditioningIndianapolis, IN
City of Industry, CA**MID-EFFICIENCY UPFLOW
INDUCED-COMBUSTION
FURNACE****Model**
395C
Sizes 040
thru 130**FILE
COPY**

A88318

With a unique approach to induced-combustion design, a new 40-inch tall cabinet, four-pass heat exchanger, an inshot burner system, and its safety features, this furnace is without peer. The Model 395C Upflow Furnace achieves one of the higher Annual Fuel Utilization Efficiency (AFUE) ratings available in a noncondensing, induced-combustion furnace. Its 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 395C Gas Furnace has the kind of overall performance needed in today's homes.

FEATURES

EFFICIENCY—The 395C Induced-Combustion Gas Furnace provides the efficiency customers want with 80 to 81% AFUE.

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

ALUMINIZED HEAT EXCHANGER—The patented four-pass heat exchanger is made of aluminized steel and backed by a 20-year Limited Warranty.

INTELLIGENT CONTROL BOARD—The 395C 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. We guarantee the reliability of the control board with a 3-year Limited Warranty.

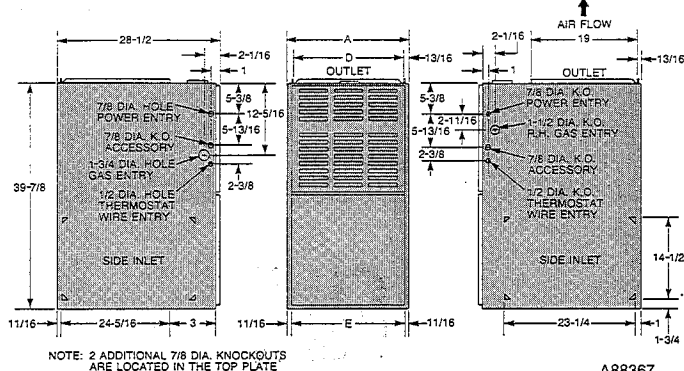
40-INCH HEIGHT—The 395C is the first induced-combustion furnace with a 40-inch cabinet height. This simplifies installation in alcoves, attics, basements (ideal for short basement), closets, and utility rooms, especially with a taller high-efficiency cooling coil.

PREPAINTED CABINET—The 395C uses prepainted sheet metal for the cabinet. This is the same high-quality finish found on refrigerators and other appliances today. We insure 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. An exclusive with the 395C Furnace.

EASY INSTALLATION—The Model 395C has many features that make installation easier: left or right gas and electrical connections, Molex blower speed selector, matching coil sizes, accessory low-voltage connections, and many more.

Form No. PDS 395C.40.2B



DIMENSIONS (In Inches)

Size	A	D	E	Vent Connection	Shipping Weight
024040	14-3/16	12-9/16	11-11/16	4	122
036040	14-3/16	12-9/16	11-11/16	4	124
024055	14-3/16	12-9/16	11-11/16	4	132
036055	14-3/16	12-9/16	11-11/16	4	134
036075	17-1/2	15-7/8	15	4	150
048075	21	19-3/8	18-1/2	4	154
036090	17-1/2	15-7/8	15	4	160
048090	21	19-3/8	18-1/2	4	166
060090	24-1/2	22-7/8	22	4	184
048110	21	19-3/8	18-1/2	5	178
060110	24-1/2	22-7/8	22	5	194
060130	24-1/2	22-7/8	22	5	204

CLEARANCES (In Inches)

Size	040 & 050	075 thru 130
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-inch front clearance is needed for combustion-air and ventilation-air entry.

SPECIFICATIONS

SIZE		024040	036040	024055	036055	036075	048075
RATINGS AND PERFORMANCE							
Input Btuh*		44,000	44,000	66,000	66,000	88,000	88,000
Capacity (Btuh)†	Indoor	36,000	36,000	53,000	53,000	71,000	71,000
	Nonweatherized (ICS)**	35,000	35,000	53,000	53,000	71,000	71,000
AFUE†	Indoor	80.2	80.2	80.2	80.2	80.2	80.2
	Nonweatherized (ICS)**	79.5	79.5	79.5	79.5	79.5	79.5
California Seasonal Efficiency (CSE)†		73.4	72.6	75.2	74.2	75.3	74.6
Certified Temperature Rise Range °F		25—55	20—50	45—75	30—60	45—75	35—65
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	1445
	Cooling	930	1270	950	1300	1335	1740
ELECTRICAL							
Unit Volts—Hertz—Phase		115—60—1					
Operating Voltage Range		104—127					
Maximum Unit Ampacity		6.7	8.3	7.1	8.7	9.0	10.4
Maximum Wire Length (Measured One Way) Feet		53	43	50	41	40	35
Minimum Wire Size		14					
Maximum Fuse Size		15					
Transformer (24-V)		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-inch NPT					
GAS CONTROLS							
Gas Valve (Redundant)		White Rodgers					
	Min Inlet Pressure	4.5 inches wc					
	Max Inlet Pressure	13.6 inches 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		3.4	5.8	3.4	5.8	5.8	7.9
RPM (Nominal)—Speeds		1075—4	1075—4	1075—4	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
DEALER-INSTALLED OPTIONS							
Twinning Kit		313542-70101					
Gas Conversion Kit (Natural-to-Propane)		310318-70101					
Gas Conversion Kit (Propane-to-Natural)		310325-70101					
Side Filter Rack (Less Filter)		306040-101 (Filter Size 16 x 25 x 1)					
Return Filter Cabinet (Less Filters)		310314-70101 (Filter Size 2—20 x 25 x 1)					

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

†Capacity in accordance with U.S. government DOE test procedures. California Seasonal Efficiencies based on California-specified procedures.

‡Air delivery above 1800 cfm requires that both sides, or a combination of one 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)

SPECIFICATIONS

SIZE		036090	048090	060090	048110	060110	060130
RATINGS AND PERFORMANCE							
Input Btuh*		110,000	110,000	110,000	132,000	132,000	154,000
Capacity (Btuh)†	Indoor	89,000	89,000	89,000	107,000	107,000	124,000
	Nonweatherized (ICS)**	88,000	88,000	88,000	106,000	106,000	124,000
AFUE†	Indoor	80.2	80.2	80.2	80.2	80.2	80.2
	Nonweatherized (ICS)**	79.5	79.5	79.5	79.5	79.5	79.5
California Seasonal Efficiency (CSE)†		76.3	75.5	73.8	75.7	74.3	75.4
Certified Temperature Rise Range °F		55—85	45—75	35—65	45—75	40—70	55—85
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 Ft³/Min‡	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		7.9	9.6	14.4	10.0	13.3	14.0
Maximum Wire Length (Measured One Way) Feet		45	37	40	36	43	41
Minimum Wire Size		14	14	12	14	12	12
Maximum Fuse Size		15	15	20	15	20	20
Transformer (24-V)		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-inch NPT					
GAS CONTROLS							
Gas Valve (Redundant)		White Rodgers					
	Min Inlet Pressure	4.5 inches wc (Natural Gas)					
	Max Inlet Pressure	13.6 inches 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	(2) 16 x 25 x 1	(1) 20 x 25 x 1	(2) 16 x 25 x 1	
DEALER-INSTALLED OPTIONS							
Twinning Kit		313542-70101					
Gas Conversion Kit (Natural-to-Propane)		310318-70101					
Gas Conversion Kit (Propane-to-Natural)		310325-70101					
Side Filter Rack (Less Filter)		306040-101 (Filter Size 16 x 25 x 1)					
Return Filter Cabinet (Less Filters)		310314-70101 (Filter Size 2—20 x 25 x 1)					

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

†Capacity in accordance with U.S. government DOE test procedures. California Seasonal Efficiencies based on California-specified procedures.

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

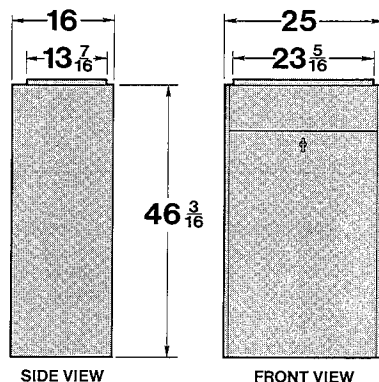
**Isolated Combustion System (ICS).



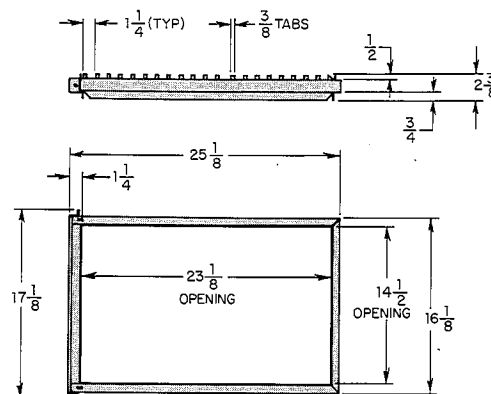
MEETS DOE RESIDENTIAL CONSERVATION SERVICES PROGRAM STANDARDS.

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



A75316



A80199

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
024040	1/5 PSC	High	1075	1050	1025	975	930	855	780	630
		Med-High	855	830	810	785	745	765	580	480
		Med-Low	710	695	670	635	610	550	485	400
		Low	610	590	565	535	485	425	375	310
036040	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	—	1055	1030	995	950	900	830	750
		Med-High	—	830	810	790	750	720	665	580
		Med-Low	700	680	660	635	605	555	505	445
		Low	600	575	550	520	475	450	400	340
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
036075	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
060130	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 one 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