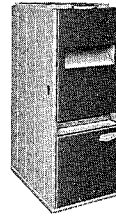


# bryant

## GAS FIRED UPFLOW FURNACE



**Product Data Sheet** **394U**  
Size 80 Series B

PDS 394U.80.2 4/25/67

### CLEARANCES FROM COMBUSTIBLES

- In "large" rooms
- 6" from casing & vent hood
  - 1" from sides & top of supply plenum
- In confined spaces
- 0" from casing sides, rear & bottom
  - 6" from casing front & type C vent connector
  - 3" from top & sides of uninsulated supply plenum

### SHIPPING WEIGHT

160 lbs.

### STANDARD GAS CONTROL OPTIONS

Control Type	Gas	
D2	LPG	100% shut-off automatic pilot; Bryant diaphragm valve; transformer.
D4	City	Bryant diaphragm valve; Bryant automatic pilot; gas pressure regulator; transformer.
D5	City	100% shut-off for natural gas. Same as D4 except uses thermocouple pilot and pilot relay.

### HEATING RATINGS AND CAPACITIES

Rating <sup>1</sup>	Input <sup>2</sup>	BTUH	80,000 <sup>3</sup>
	Output	BTUH	64,000

<sup>1</sup>Ratings are for elevations up to 2000 ft.; for higher altitudes, reduce ratings 4% for each 1000 ft. above sea level.

<sup>2</sup>20% reduction in input allowed.

<sup>3</sup>For LP Gas, model designated 80-V-394, A.G.A. Input 75,000, Output 60,000.

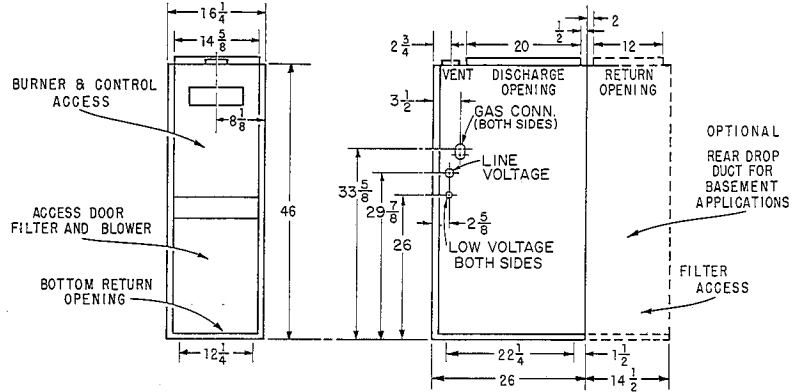
### COMPONENT INFORMATION

Motor—Type L or M—4 Speed	1/8 HP (Sh. Pole)
Power Supply	120-60-1
Full Load Amps	6.3
Speed & Rotation	1050 CCW*
Motor—Type E—4 Speed	1/4 HP (PSC)
Power Supply	120-60-1
Full Load Amps	5.4
Speed & Rotation	1075 CCW*
Blower Wheel Dia. & Width	10" x 6"
Bore—Direct Drive	1/2"
Filter—Fiberglass**	
Inlet At Bottom	14" x 25" x 1"
External Filter Rack	14" x 25" x 1"
Internal Side Filter	14" x 25" x 1"
Rear Drop Duct	14" x 25" x 1"

\*Rotation viewed from end opposite shaft

\*\*Use multi-velocity filters above 875 CFM.

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### DRIVE TYPES

- L—Multi-speed direct drive heating—minimum cooling
- M—Multi-speed direct drive heating—minimum cooling with evaporator blower motor relay
- E—Multi-speed direct drive heating—maximum cooling with evaporator blower motor relay

### CONNECTIONS

Gas Supply NPT Natural	1/2"
Propane	1/2"
Electric Supply—Direct Drive	120-60-1
Branch Circuit Wire Size	AWG 14
Fuse Size	AMPS 15
Control Circuit Power Avail.*	
Type L	KA 10.8
Type M or E	7.2
Flue Size	Inches 4 (Oval)
Duct—Inlet at bottom	D x W 22 1/4 x 12 1/4
Inlet ext. filter rack	H x W 12 x 23
Inlet drop duct	D x W 12 x 14 1/2
Discharge	D x W 20 x 14 1/2

\*External to unit

### CONTROL INFORMATION

Burners (Steel Slotted Port)	3
Orifice Drill Size Prop.	54
Nat.	40
D2 Control (Prop.) Regulator	None Required
Valve	1/2 A641
Escapement Orifice Drill Size	80
Pilot—MH Q314A	.011 Orifice
D4 Control (Nat.) Regulator	Comb. Thermac 1/2 VR-1
Valve	1/2 A641
Escapement Orifice Drill Size	80
Pilot—732	.016 Orifice
D5 Control (Nat.) Regulator	Comb. Thermac 1/2 VR-1
Valve	1/2 A641
Escapement Orifice Drill Size	80
Pilot—MH Q314A	.018 Orifice

Manual Shut-off Cock and Pilot Cock are standard equipment. Supplied as separate parts except where included as integral part of the combination regulator.

**AIR FLOW FOR INDICATED AIR TEMPERATURE RISE\***

TEMP RISE °F	70	75	80	85	90	95	100
AIR FLOW CFM	795	741	695	654	618	585	556

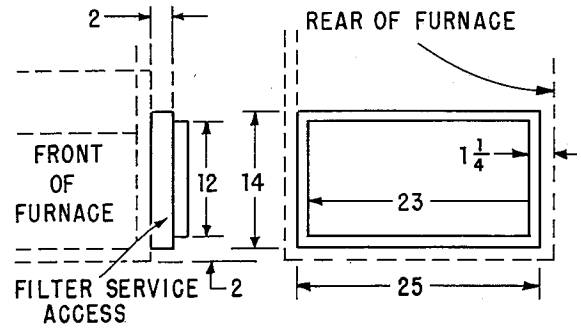
\*At Rated Input

**AIR DELIVERY PERFORMANCE ‡**

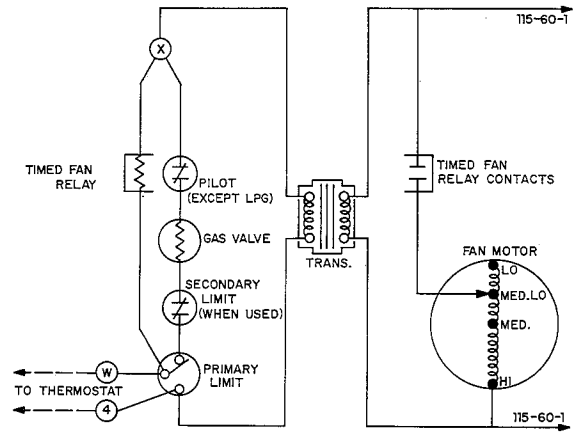
Air Delivery CFM	EXTERNAL STATIC PRESSURE AVAILABLE							
	Type L or M Motor				Type E Motor			
	Hi	Med	Med-Lo	Lo	Hi	Med	Med-Lo	Lo
500	.88	.78	.70	.58				.77
600	.76	.65	.52	.06				.61
700	.63	.47						.78
800	.48							.60
900	.16					.74		.33
1000					.76	.58		
1100					.63	.38		
1200					.46	.14		
1300					.27			
1400					.07			

Above data gives Cfm under typical field applications (i.e. 125 volts).

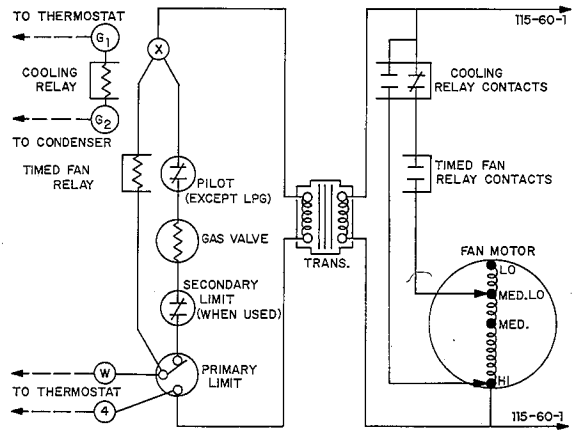
**Optional External Filter Rack  
Mounts on Either Side**



**LINE-TO-LINE SCHEMATIC  
UNIT WIRING DIAGRAMS**



**Type L**



**Types M or E**

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