

PATRIOT 80 PLUS

OIL FURNACES



Clean,
Comfortable
Oil Heat From

Century[®]

Features



- ① Foil-faced high density fiberglass insulation gives durable, insulating heat and sound protection.
- ② Heavy-duty 14 gauge steel Heat Exchanger engineered for efficiency with a lifetime warranty. 5 year warranty on all components.
- ③ Available in upflow, downflow, horizontal, front or rear flue configuration.
- ④ Corrosion-resistant steel cabinet construction with baked enamel finish.
- ⑤ Easy access clean-out ports allow complete servicing of heat exchanger.
- ⑥ State-of-the-art Beckett "AFG" burner with flame retention head, PSC motor and solid state ignition (5 Year Warranty).
- ⑦ High temperature ceramic combustion chamber provides quiet, high efficiency combustion.
- ⑧ Multi-speed direct drive blower assembly with unique mounting for quietness (Adjustable belt drive on OLRA125BH and OLRA200BH).
- ⑨ Honeywell primary with integral fan center.
- ⑩ Honeywell fan/limit for simple operation.

Highboy depicted, components representative of other configurations.



Specifications

HIGHBOY

MODEL	NOZZLE SIZE	INPUT BTUH	OUTPUT BTUH	AFUE	NOM CLG CAPACITY	FLUE DIA. (IN.)	FILTER SIZE	VOLTS/HZ/ PHASE	MAX. TIME DELAY BREAKER OR FUSE	TRANS. VA.	SHIPPING WEIGHT LBS.
OUFA75-D3	.50GPH-80°A	70,000	58,000	83	2.0-3.0	6	16 x 25	120/60/1	15 amp	40	225
	.65GPH-80°B	90,000	74,000	83							
OUFA95-D4	.65GPH-80°B	105,000	85,000	81	2.5-4.0	6	16 x 25	120/60/1	15 amp	40	225
	.75GPH-80°B	119,000	97,000	81							
OUFA125-D5	.85GPH-80°B	140,000	113,000	81	3.0-5.0	6	16 x 25*	120/60/1	15 amp	40	275
	1.00GPH-80°B	154,000	125,000	81							

*-Requires return air to be brought in on both sides above 1600 cfm.

LOWBOY

MODEL	NOZZLE SIZE	INPUT BTUH	OUTPUT BTUH	AFUE	NOM CLG CAPACITY	FLUE DIA. (IN.)	FILTER SIZE	VOLTS/HZ/ PHASE	MAX. TIME DELAY BREAKER OR FUSE	TRANS. VA.	SHIPPING WEIGHT LBS.
OLFA95-D4/ OLRA95-D4	.65GPH-80°B .75GPH-80°B	105,000 119,000	85,000 97,000	81 81	2.5-4.0	6	18 x 19	120/60/1	15 amp	40	250
OLFA125-D5/ OLRA125-D5	.85GPH-80°B 1.00GPH-80°B	140,000 154,000	113,000 125,000	81 81							
OLRA170-D5	1.10GPH-80°B 1.25GPH-80°B	175,000 210,000	140,000 168,000	80 80	3.5-5.0	6	20 ¹ / ₈ x 22 ⁷ / ₁₆	120/60/1	15 amp	40	295
	OLRA125-BH	.85GPH-80°B 1.00GPH-80°B	140,000 154,000	113,000 125,000							
OLRA200-BH	1.50GPH-80°B	245,000	196,000	80	5.0-6.0	8	24 ⁵ / ₈ x 24 ³ / ₈	120/60/1	20 amp	12*	390

*-12VA Heating only, additional transformer required for cooling.

DOWNFLOW/HORIZONTAL

MODEL	NOZZLE SIZE	INPUT BTUH	OUTPUT BTUH	AFUE	NOM CLG CAPACITY	FLUE DIA. (IN.)	VOLTS/HZ/ PHASE	MAX. TIME DELAY BREAKER OR FUSE	TRANS. VA.	SHIPPING WEIGHT LBS.
ODHA95-D3	.65GPH-80°B	105,000	85,000	81	2.0-3.0	6	120/60/1	15 amp	40	225
	.75GPH-80°B	119,000	97,000	81						
ODHA125-D5	.85GPH-80°B	140,000	113,000	81	3.0-5.0	6	120/60/1	15 amp	40	265
	1.00GPH-80°B	154,000	125,000	81						
OHHA95-D3*	.65GPH-80°B	105,000	85,000	82.8	2.0-3.0	6	120/60/1	15 amp	40	225
	.75GPH-80°B	119,000	97,000	81						

*-Approved for horizontal installations only.

NOTE: All units shipped at higher firing rate.

Accessories

Thermostat, Heat Only
7600-355 (all models)
Thermostat, Digital Heat/
Cool deluxe 7800-200 (all models)

Air Cleaners

HEAC1400
HEAC2000
HMAC1200
HMAC2000
HMAR2000

Downflow/Horizontal

Combustible floor bases used on
ODHA95-D3 - 7605-100
ODHA125-D5 - 7605-101

Filters

ODHA95-D3 - 7605-102
ODHA125-D5 - 7605-103

Clean Out Kit

7605-104 (all models)

Description



HIGHBOY
58,000 to 125,000 BTUH



Compact Design

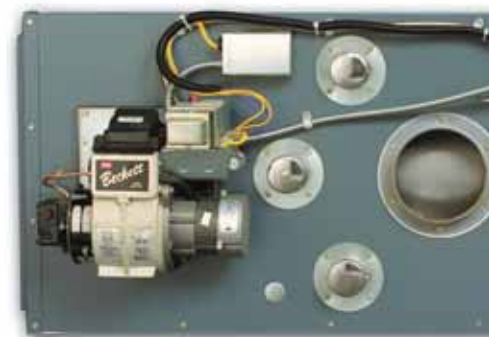
The **Patriot 80** oil furnace is available in upflow, downflow/horizontal, rear flue, and front flue models. These configurations allow the **Patriot 80** oil furnace to be installed virtually anywhere. In fact, it is designed to fit most areas in a home including a utility room, alcoves, closets, crawl spaces, or attics. **Patriot 80** oil furnaces are available in heat only or air conditioning models.

Matched Performance

In selecting a furnace the practice of oversizing was a common occurrence under the theory that bigger was better. However, the closer you match the heating output to the heat loss of the dwelling the more money you save and the more comfortable you'll be. With the **Patriot 80** you can now match your furnace to meet the desired heating requirements of your home. Multiple firing rates achieve the right furnace to heating requirement with a simple nozzle change.

Efficiency & Versatility

The **Patriot 80** oil furnace is exceptionally efficient and versatile thanks to its powerful heat exchanger. This maximizes energy usage for less cost. Models feature multiple firing rates ranging from 58,000 to 196,000 BTUH which allow for a wider choice of heating efficiencies. All models are A.F.U.E. rated above 80%. The heat exchanger features a Limited Lifetime Warranty and all other components have a 5 year Warranty.



DOWNFLOW
85,000 to

Description

Solid Construction

The corrosion-resistant cabinet of the **Patriot 80** is constructed of heavy gauge steel with a baked enamel finish. The primary heat exchanger is constructed of heavy-duty 14 gauge steel for long life. A high efficiency state-of-the-art multi-speed direct drive blower assures years of quiet and reliable operation.

Quiet, Clean Comfort

The **Patriot 80** features foil-faced fiberglass insulation to reduce noise and heat loss. A dense, ceramic fiber combustion chamber makes for a quieter operating and more efficient furnace. State-of-the-art engineering and top quality components combine to provide the homeowner with clean burning warm air comfort. Many models are pre-wired to easily add central air conditioning –2 to 5 tons cooling capacity.

Trouble-Free Maintenance

All components from the welded heat exchanger to the Beckett High Efficiency Oil Burner with flame retention head help to minimize the need for service. With removable panels and easily accessible clean-out ports, all components are situated for easy access and maintenance. In addition, the **Patriot 80** features conventional components and modern technology for easy service and trouble-free operation.



LOWBOY
85,000 to 196,000 BTUH



W/HORIZONTAL
125,000 BTUH





Blower Performance

HIGHBOY

DIRECT DRIVE MODEL	MOTOR HP.	BLOWER SIZE	TEMP RISE DEG. F	BLOWER SPEEDS	CFM@ EXT. STATIC PRESSURE - IN W.C.				
					0.2	0.3	0.4	0.5	0.6
OUFA75-D3	1/3	10 x 8	50-80	HIGH	1412	1356	1299	1222	1154
				MED. HIGH	1260	1217	1172	1120	1060
				MED.	1040	1025	991	960	910
				LOW	887	878	850	830	787
OUFA95-D4	1/2	10 x 10	50-80	HIGH	1756	1693	1940	1590	1495
				MED. HIGH	1445	1425	1400	1335	1287
				MED.	1191	1181	1147	1110	1054
				LOW	989	979	961	926	880
OUFA125-D5	3/4	12 x 9	60	HIGH	2204	2140	2058	2000	1900
				MED. HIGH	1760	1725	1670	1615	1560
				MED.	1520	1496	1450	1400	1360
				LOW	1366	1329	1304	1250	1210

*Not recommended for heating. Temperature range may be outside the acceptable range.

LOWBOY

DIRECT DRIVE MODEL	MOTOR HP.	BLOWER SIZE	TEMP RISE DEG. F	BLOWER SPEEDS	CFM@ EXT. STATIC PRESSURE - IN W.C.				
					0.2	0.3	0.4	0.5	0.6
OLFA95-D4/ OLRA95-D4	1/2	10 x 9	50-80	HIGH	1760	1670	1599	1550	1410
				MED. HIGH	1603	1415	1459	1394	1307
				MED.	1373	1345	1300	1259	1188
				LOW	1162	1150	1130	1105	1033
OLFA125-D5	3/4	12 x 10	60	HIGH	2160	2080	2010	1969	1850
				MED. HIGH	1850	1810	1744	1670	1580
				MED.	1650	1600	1580	1490	1430
				LOW	1480	1470	1445	1380	1330
OLRA125-D5	3/4	12 x 10	60	HIGH	2221	2124	2029	1980	1835
				MED. HIGH	1815	1755	1704	1625	1549
				MED.	1564	1525	1501	1435	1369
				LOW	1360	1355	1310	1260	1205
OLRA170-D5	3/4	12 x 10	60	HIGH	2245	2138	2034	1985	1833
				MED. HIGH	1835	1780	1729	1670	1609
				MED.	1620	1590	1540	1490	1435
				LOW	1460	1435	1400	1320	1280
BELT DRIVE MODEL				MOTOR PULLEY	MOTOR PULLEY ADJ.	BLOWER PULLEY	BELT SIZE INCHES	CFM @0.2" W.C.	
OLRA125-BH	1/2	12 x 9	55-85 ^① 60-90 ^②	4	CLOSED	7"	42	1700	
OLRA200-BH	3/4	12 x 12	65-95	6	CLOSED	3.5"	42	2660	

①Low-Fire ②High-Fire

DOWNFLOW/HORIZONTAL

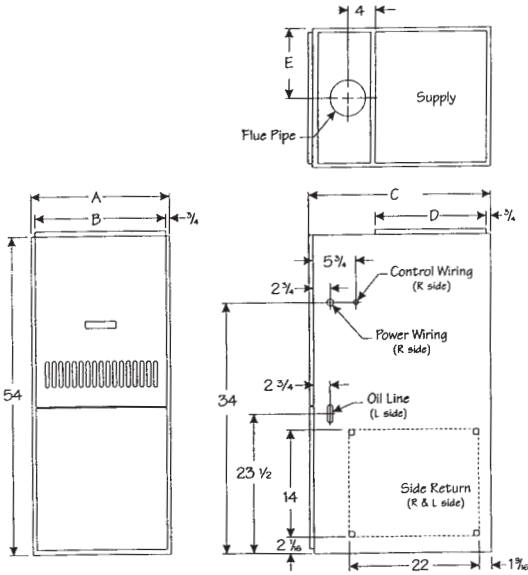
DIRECT DRIVE MODEL	MOTOR HP.	BLOWER SIZE	TEMP RISE DEG. F	BLOWER SPEEDS	CFM@ EXT. STATIC PRESSURE - IN W.C.				
					0.2	0.3	0.4	0.5	0.6
ODHA95-D4	1/2	10 x 10	70	HIGH	1410	1320	1280	1195	1090
				MED. HIGH	1340	1282	1190	1100	1016
				MED.	1236	1175	1092	1015	918
				LOW	1090	1037	975	900	855
ODHA125-D5	3/4	12 x 9	60	HIGH	2072	1995	1950	1900	1850
				MED. HIGH	1794	1750	1690	1630	1585
				MED.	1515	1482	1430	1388	1320
				LOW	1355	1326	1290*	1233*	1176*
OHHA95-D3	1/2	10 x 10	70	HIGH	1487	1398	1303	1210	1104
				MED. HIGH	1380	1303	1220	1150	1033
				MED.	1230	1170	1108	1000	935
				LOW	1057	1022	970	909	835

*Not recommended for heating. Temperature range may be outside the acceptable range.

Dimensions

HIGHBOY

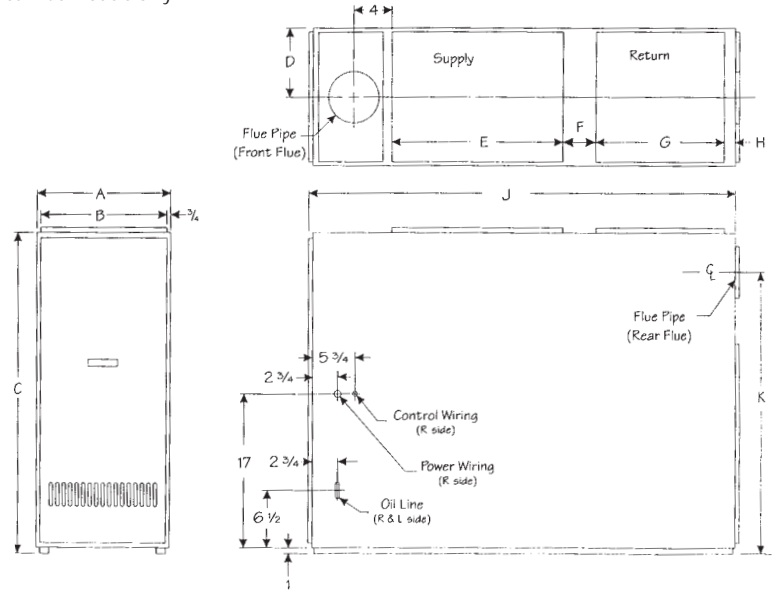
DIMENSIONS	A	B	C	D	E
OUIFA75/95	19 1/2	18	30 5/8	19 5/8	9 3/4
OUIFA125	22 1/2	21	33 7/8	22 7/8	11 1/4
CLEARANCES	FRONT	SIDE	REAR		
All upflow models	4	0	0		



LOWBOY

DIMENSIONS	A	B	C	D	E	F	G	H	J	K*
OLFA95/OLRA95	19 1/2	18	37	9 3/4	21	3 1/4	16	1 1/2	52 1/8	27
OLFA125/OLRA125	22 1/2	21	37	11 1/4	21	3 1/4	16	1 1/2	52 1/8	29
OLRA170	24	22 1/2	39	12	23 1/8	2 1/4	18	1	54 3/4	29
OLRA200	26	24 1/2	42	13	24 1/2	2 7/16	23	7/8	61 1/8	32

* Rear flue models only.



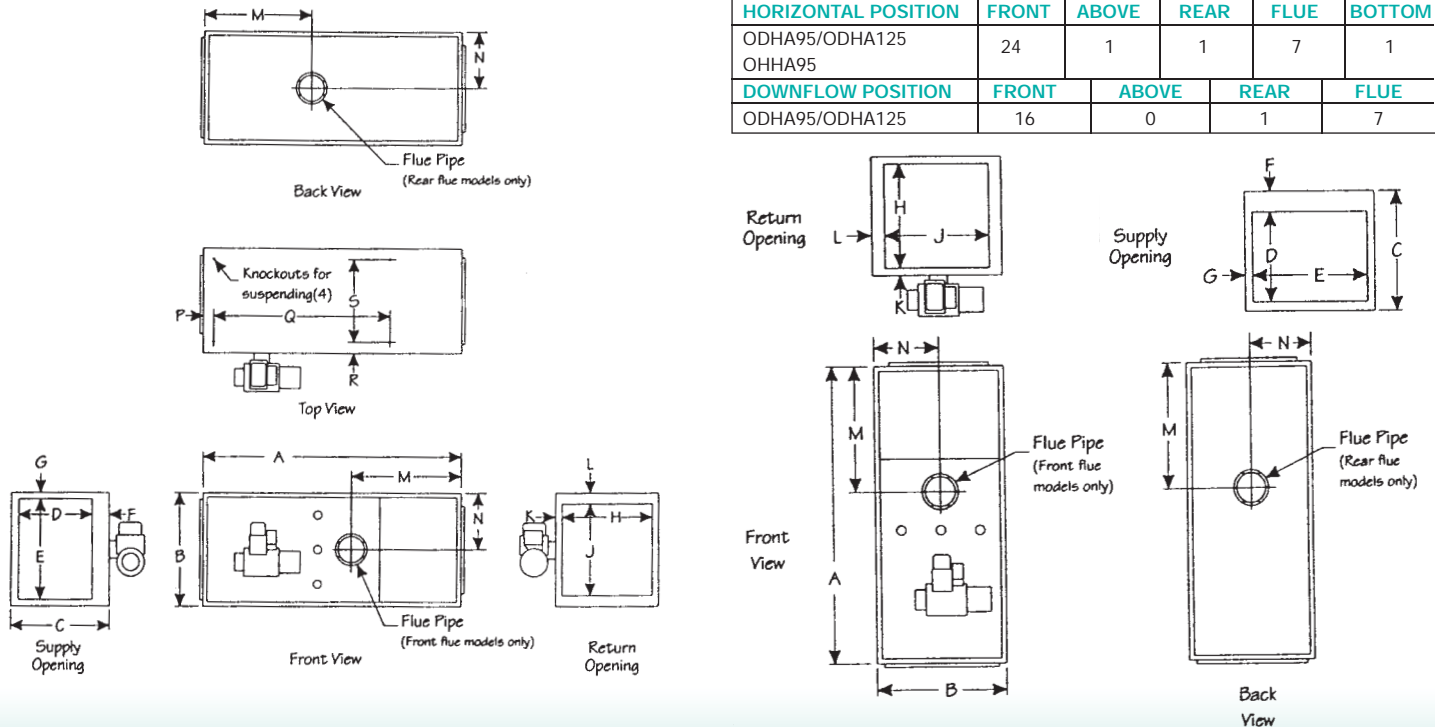
DOWNFLOW/HORIZONTAL

DIMENSIONS	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
ODHA95	59	20 1/2	20 1/2	18 1/4	18 1/4	1 1/4	1 1/4	18	18	1 1/4	1 1/4	32 1/2	10 1/4	3	53	3	14 1/2
OHHA95*	59	20 1/2	20 1/2	18 1/4	21 1/4	1 1/4	1 1/4	18	18	1 1/4	1 1/4	32 1/2	10 1/4	3	53	3	14 1/2
ODHA125	59	23 1/2	23 1/2	21 1/4	21 1/4	1 1/4	1 1/4	21	21	1 1/4	1 1/4	32 1/2	11 3/4	3	53	4 3/4	14 1/2

*Rear flue only.

CLEARANCES

HORIZONTAL POSITION	FRONT	ABOVE	REAR	FLUE	BOTTOM	
ODHA95/ODHA125	24	1	1	7	1	
OHHA95						
DOWNFLOW POSITION	FRONT	ABOVE	REAR	FLUE		
ODHA95/ODHA125	16	0	1	7		



Century offers a full line of quality constructed, energy efficient oil furnaces to keep your family warm and comfortable throughout the winter months. All Patriot 80 oil models feature a Limited Lifetime Heat Exchanger Warranty with 5 years on all parts.

Most models are designed to accept air conditioning. These units will provide a comfortable environment for you and your family year round.

Please take a look inside for a detailed description of the fine line of oil furnaces we offer, then consult with your builder or local dealer for recommendations on which of these models will best suit your personal needs and lifestyles.

Ask about Energy Knight® Central Air Conditioning and Air Cleaners for Cool Comfort this summer

