### **OIL FURNACES** Clean, Comfortable Oil Heat

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Foil-faced high density fiberglass insulation to minimize noise and heat loss

Heavy duty 14 gauge steel heat exchanger engineered for efficiency; covered by limited lifetime warranty

Available in upflow, downflow, horizontal, front or rear flue configurations

Corrosion-resistant steel cabinet construction with baked enamel finish for durability

Easy access stainless steel cleanout ports for complete servicing of heat exchanger

Highboy depicted; components representative of other configurations





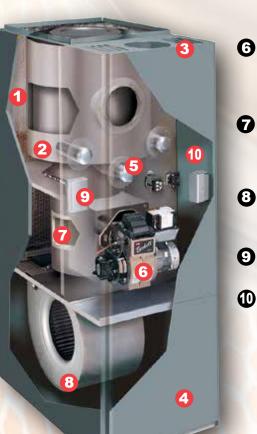
### GeniSys<sup>™</sup> Advanced Burner Control

Designed for trouble-free operation, the control has programmable delays for valve on and motor off, and indicator lights to simplify system monitoring and diagnostics. Two communication ports allow the addition of alarm contacts and future wireless communications. Features include technician pump prime mode, limited reset and limited recycle, and welded relay protection.

### Quiet, Clean Comfort

A dense, ceramic fiber combustion chamber provides a quiet and efficient operating furnace while foil-faced high density insulation reduces operation sound as well as heat loss. State-of-the-art engineering and top quality components combine to provide clean burning warm air comfort—plus many models come pre-wired to easily add central air conditioning (two to five ton cooling capacities).

### Features



State-of-the-art Beckett "AFG" burner with flame retention head, PSC burner motor and solid state ignition for smooth igniting

 High temperature ceramic
combustion chamber for quiet, high efficiency combustion

Multi-speed direct drive blower assembly with slide-out design and handy plug-in wiring (adjustable belt drive on OLRA200-BH)

**9** Primary with integral fan center

Honeywell fan/limit for simple operation



Limited Lifetime Warranty on Heat Exchanger

#### **Efficiency and Versatility**

The Patriot 80 oil furnace is exceptionally efficient and versatile thanks to its powerful heat exchanger that maximizes energy usage to minimize utility costs. Models feature multiple firing rates and capacities ranging from 58,000 to 196,000 BTUH, allowing a wide choice of heating efficiencies.

All models are AFUE rated at 80% or above.

#### **Trouble-Free Maintenance**

All components from the welded heat exchanger to the Beckett high efficiency oil burner with flame retention head are built to be reliable. With removable panels and easily accessed clean-out ports, all components are located for simple access and maintenance. In addition, the Patriot 80 features standard components should replacement parts be needed.



GeniSys<sup>™</sup> is a trademark of R.W. Beckett Corp.

## **Blower Performance**

### Highboy

DIRECT		BLOWER	TEMP RISE	BLOWER	CFM	@EXT. S	TATIC PRE	SSURE - IN	W.C.
DRIVE MODEL	MOTOR HP	SIZE	DEG. F	SPEEDS	0.2	0.3	0.4	0.5	0.6
				HIGH	1410	1355	1300	1220	1155
	1/2	10.0	50-80	MED. HIGH	1260	1215	1170	1120	1060
OUFB75-D3	1/3	10 x 8		MED.	1040	1025	990	960	910
				LOW	885	880	850	830	785
			50-80	HIGH	1755	1695	1940	1590	1495
	1/2	10 10		MED. HIGH	1445	1425	1400	1335	1285
OUFB95-D4	1/2	10 x 10		MED.	1190	1180	1145	1110	1055
				LOW	990	980	960	925	880
				HIGH	2090	1995	1940	1835	1760
	214		45.75	MED. HIGH	1835	1785	1725	1660	1595
OUFB125-D5	3/4	2 x	45-75	MED.	1630	1615	1569	1500	1460
				LOW	1425	1390	1375	1335	1300

#### Lowboy

DIRECT		BLOWER	TEMP RISE	BLOWER	CFM@EXT. STATIC PRESSURE - IN W.C.							
DRIVE MODEL	MOTOR HP	SIZE	DEG. F	SPEEDS	0.2	0.3	0.4	0.5	0.6			
	OLFB95-D4/ OLRB95-D4 I/2 I0 x 9 45-75		HIGH	1760	1670	1600	1550	1410				
OLFB95-D4/		45.75	MED. HIGH	1605	1515	1460	1395	1305				
OLRB95-D4		10 x 9	45-75	MED.	1375	1345	1300	1260	1190			
				LOW	1160	1150	1130	1105	1035			
				HIGH	2360	2275	2190	2130	2025			
OLFB125-D5	2/4	12 10	45-75	MED. HIGH	2000	1975	1900	1835	1790			
OLRB125-D5	3/4	12 x 10		MED.	1730	1720	1695	1675	1605			
				LOW	1470	1465	1450	1440	1410			

#### Downflow/Horizontal

DIRECT		BLOWER	TEMP RISE	BLOWER	CFM	@EXT. S	TATIC PRE	SSURE - IN	w.c.
DRIVE MODEL	MOTOR HP	SIZE	DEG. F	SPEEDS	0.2	0.3	0.4	0.5	0.6
				HIGH	1410	1320	1280	1195	1090
	1/2	1010	45-75	MED. HIGH	1340	1280	1190	1100	1015
ODFB95-D3	1/2	10 x 10		MED.	1235	1175	1090	1015	920
				LOW	1090	1035	975	900	855
				HIGH	1485	1400	1305	1210	1105
	10 10	45.75	MED. HIGH	1380	1305	1220	1150	1035	
ODRB95-D3	1/2	10 x 10	45-75	MED.	1230	1170	1110	1000	935
				LOW	1055	1020	970	910	835
				HIGH	2205	2120	2070	2005	1930
ODFB125-D5	2/4	12 0	45.75	MED. HIGH	1770	1740	1745	1710	1640
	3/4	12 x 9	45-75	MED.	1550	1530	1515	1485	1455
				LOW	1295	1290	1280	1270	1255

#### Highboy (in.)

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DIMENSIONS	Α	В	С	D	Е
OUFB75/95	<b>19</b> 1/2	18	305/8	<b>19</b> 5/8	<b>9</b> <sup>3</sup> /4
OUFB125	<b>22</b> <sup>1</sup> /2	21	331/8	221/8	<sup>1</sup> /4
CLEARANCES All upflow models	FRC 2	DNT 4	SIDE 0	<b>RE</b> # 0	AR
	ABC		FLUE 6	FLO Combu	

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23/

14

23 V2

34

Flue Pipe

Supply

-D--

Control Wiring

(R side)

Side Return (R & L side)

-22 --

Power Wiring (R side)

Oil Line (L side)

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4-1%

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5%

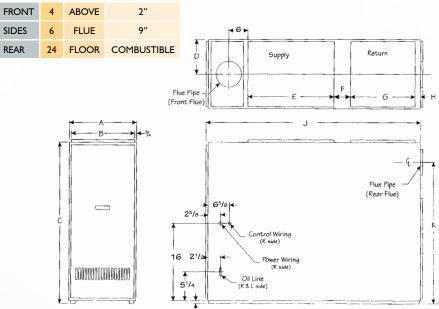
# **Dimensions**

#### Lowboy (in.)

	,									
DIMENSIONS	Α	В	С	D	E	F	G	н	J	<b>K</b> *
OLBB95	<b> 9</b> <sup> </sup> /2	18	37	<b>9</b> <sup>3</sup> /4	21	31/4	16	I 1/2	52	N/A
OLRB95	<b> 9</b> <sup> </sup> /2	18	37	N/A	21	31/4	16	I 1/2	52	275/8
OLFB125	<b>22</b> 1/2	21	37	<sup>1</sup> /4	21	31/4	16	I 1/2	52	N/A
OLRB125	<b>22</b> <sup>1</sup> /2	21	37	N/A	21	<b>3</b> <sup>1</sup> /4	16	<sup>1</sup> /2	52	<b>27</b> <sup>5</sup> /8
* D ( )										

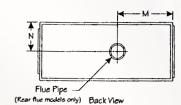
\* Rear flue models only.

#### **Clearance to Combustibles (in.)**



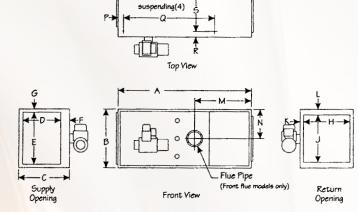
#### **Clearances (in.)**

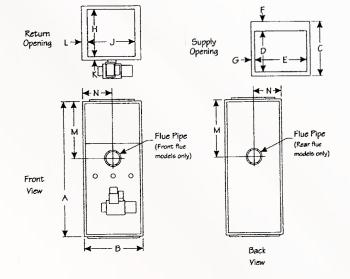
HORIZONTAL POSITION	FRONT	ABOVE	REAR	FLUE	воттом	SIDE
ODFB95/ODFB125	24	I.	I.	7	I	N/A
ODRB95	24	I.	24	7	I	N/A
DOWNFLOW POSITION	FRONT	ABOVE	REAR	FLUE	воттом	SIDE
ODFB95/ODRB95/ODFB125	16	0	I	7	I	Non Combustible



Knockouts for

HORIZONTAL POSITION	FRONT	ABOVE	REAR	FLUE	воттом	SIDE
ODFB95/ODFB125	24	I.	I.	7	I	N/A
ODRB95	24	I.	24	7	I	N/A
DOWNFLOW POSITION	FRONT	ABOVE	REAR	FLUE	воттом	SIDE
ODFB95/ODRB95/ODFB125	16	0	I.	7	I	Non Combustible





#### **Downflow/Horizontal**

DIMENSIONS	Α	В	С	D	E	F	G	Н	J	К	L	М	Ν	Р	Q	R	S
ODFB95/ODRB95	59	<b>20</b> <sup>1</sup> /2	<b>20</b> <sup>1</sup> /2	<b>18</b> <sup>1</sup> /4	<b>18</b> <sup>1</sup> /4	I 1/4	I 1/4	18	18	<sup> </sup> /4	I 1/4	<b>32</b> <sup>1</sup> /2	101/4	3	<b>4</b>   <sup>1</sup> /2	3	14 <sup>1</sup> /2
ODFB125	59	<b>23</b> <sup>1</sup> /2	<b>23</b> <sup>1</sup> /2	<b>21</b> <sup>1</sup> /4	<b>21</b> <sup>1</sup> /4	<sup> </sup> /4	I 1/4	21	21	<sup> </sup> /4	I 1/4	<b>32</b> <sup>1</sup> /2	<sup>3</sup> /8	3	<b>4</b>   <sup>1</sup> /2	3	17 <sup>1</sup> /2

## **Specifications**

#### NOTES:

All models rated at 140 psi pump pressure except the OUFB75-D3-1A. All units shipped with high fire nozzle installed. Low fire nozzle included uninstalled.

#### Highboy

MODEL	NOZZLE SIZE	INPUT BTUH	оитрит втин	AFUE	NOM. CAP. COOLING	FLUE DIA. (IN.)	FILTER SIZE	VOLTS/ HZ/ PHASE	MAX. TIME DELAY BREAKER OR FUSE	TRANS. VA.	SHIPPING WEIGHT LBS.
MODEL	.50GPH-80°A	67,500	57,000	84	COOLING	(IIN.)	SIZE	FHASE	OKFOSE	VA.	LBS.
OUFB75-D3	.65GPH-80°B	85,500	72,000	84	2.0 - 3.0	6	16 x 25	120/60/1	15 amp	40	230
	.65GPH-80°B	101,000	84,000	83	25.40	,	14 25	120/(0/1	15	40	250
OUFB95-D4	.75GPH-80°B	113,500	95,000	83	2.5 - 4.0	6	16 x 25	120/60/1	15 amp	40	250
OUFB125-D5	.85GPH-80°B	135,000	113,000	83	3.0 - 5.0	6	(2)	120/60/1	LE anna	40	270
ООГЫ 25-05	I.00GPH-80°B	151,000	126,000	83	3.0 - 5.0	0	16 x 25*	120/60/1	15 amp	40	270

#### NOTES:

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

Upflow models shipped with filter(s) for side return.

#### Lowboy

	NOZZLE	INPUT	ουτρυτ		NOM. CAP.	FLUE DIA.	FILTER	VOLTS/ HZ/	MAX. TIME DELAY BREAKER	TRANS.	SHIPPING WEIGHT
MODEL	SIZE	BTUH	BTUH	AFUE	COOLING	(IN.)	SIZE	PHASE	OR FUSE	VA.	LBS.
OLFB95-D4/	.65GPH-80°B	101,000	85,000	83	25.40	,	10 10	120// 0/1		40	225
OLRB95-D4	.75GPH-80°B	113,500	95,000	83	2.5 - 4.0	6	18 x 19	120/60/1	15 amp	40	230
OLFB125-D5/	.85GPH-80°B	134,000	113,000	83	30 50	,	1021	120/60/1	IE anna	40	250
OLRB125-D5	I.00GPH-80°B	151,000	127,000	83	3.0 - 5.0	6	19 x 21	120/60/1	15 amp	40	270

#### Downflow/Horizontal

MODEL	NOZZLE SIZE	INPUT BTUH	О <b></b> ТРИТ ВТИН	AFUE	NOM. CAP. COOLING	FLUE DIA. (IN.)	VOLTS/ HZ/ PHASE	MAX. TIME DELAY BREAKER OR FUSE	TRANS. VA.	SHIPPING WEIGHT LBS.
ODFB95-D3	.65GPH-80°B	101,000	85,000	83	2.0 - 3.0	6	120/60/1	15 amp	40	250
ODRB95-D3	.75GPH-80°B	113,500	95,000	83	2.0 - 3.0	U	120/00/1	i s anip	טד	250
ODFB125-D5	.85GPH-80°B	135,000	113,000	84	3.0 - 5.0	6	120/60/1	LE anna	40	270
ODF6125-D5	I.00GPH-80°B	150,000	126,000	84	3.0 - 5.0	0	120/60/1	15 amp	40	270

Filters are not shipped with downflow/horizontal models.

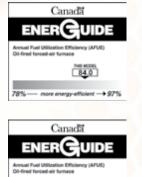
Downflow/Horizontal Combustible floor bases used on 75 & 95 models -7605-100 125 models - 7605-101 Filters 75 & 95 models -7605-102 125 models - 7605-103 Clean Out Kit 7605-104 (all models)

## **Oil Furnaces**

The compact Patriot 80 comes in a variety of configurations to fit virtually anywhere, including utility rooms, alcoves, closets, crawl spaces and attics. In addition to upflow, downflow/horizontal, rear flue and front flue versions, models are available in heat only or A/C ready combinations.

In selecting a furnace, oversizing is not recommended—the closer the heating output is matched to the heat loss of the residence, the more comfortable the homeowner will be while saving on fuel usage. With the Patriot 80, the model can be easily matched to the desired heating requirements: units are built with multiple firing rates and a simple nozzle change adjusts the firing rate to the heating requirement.





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All Patriot 80 Oil Furnaces are covered by a limited Lifetime Warranty on the heat exchanger and a 5 Year Warranty on other parts. Some limitations apply, see printed warranty on web site for details.

Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product prior to beginning any installation preparations.

Third party incentive and rebate programs have precise requirements as to product performance and certification. All products meet applicable regulations in effect on date of manufacture; however, certifications are not necessarily granted for the life of a product. Therefore, it is the responsibility of the applicant to determine whether a specific model qualifies for these incentive/rebate programs.





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