

Oneida Royal

Quality Furnaces Since 1822

HOB SERIES • HIGH BOY MULTI-POSITION OIL-FIRED FURNACE





HIGH BOY MULTI-POSITION OIL-FIRED FURNACE (HOB)

Engineered for Home Heating Comfort and Efficiency



The HOB by Oneida Royal is a top performer in home heating with innovative design features that will deliver years of dependable heat to your home. Each HOB furnace features a design that uses only the **best components** available making it one of the most reliable and fuel efficient furnaces in the industry. Its **low profile and multi-position design** is ideal for most any homes' installation requirements.

Built to Last

Since 1822, Oneida Royal has been a recognized leader for heating technology, quality and performance. Built with a **100% welded** heavy duty single pass heat exchanger the HOB is designed for maximum efficiency and service life. The cabinet is constructed of 20 gauge steel, finished in an attractive powder-paint coated finish. A strong

18 gauge galvanized steel base panel protects the base pan from corrosion.

The HOB control center is equipped to handle all of the accessories you want for your home such as air conditioning, air cleaner and humidifier. Operate your HOB blower unit in the continuous operation mode with an air cleaner and increase your year round air quality even when you are not heating your home.

A filter rack is included to accommodate an **extra large filter** ensuring clean air is delivered to your home.

The HOB also features a **lifetime heat exchanger warranty, five year parts and five year heat exchanger replacement labor allowance for your dealer.***



Efficiency

With efficiencies up to 83.5% AFUE, the HOB will help homeowners increase energy savings and lower fuel oil bills.

Leading Technology

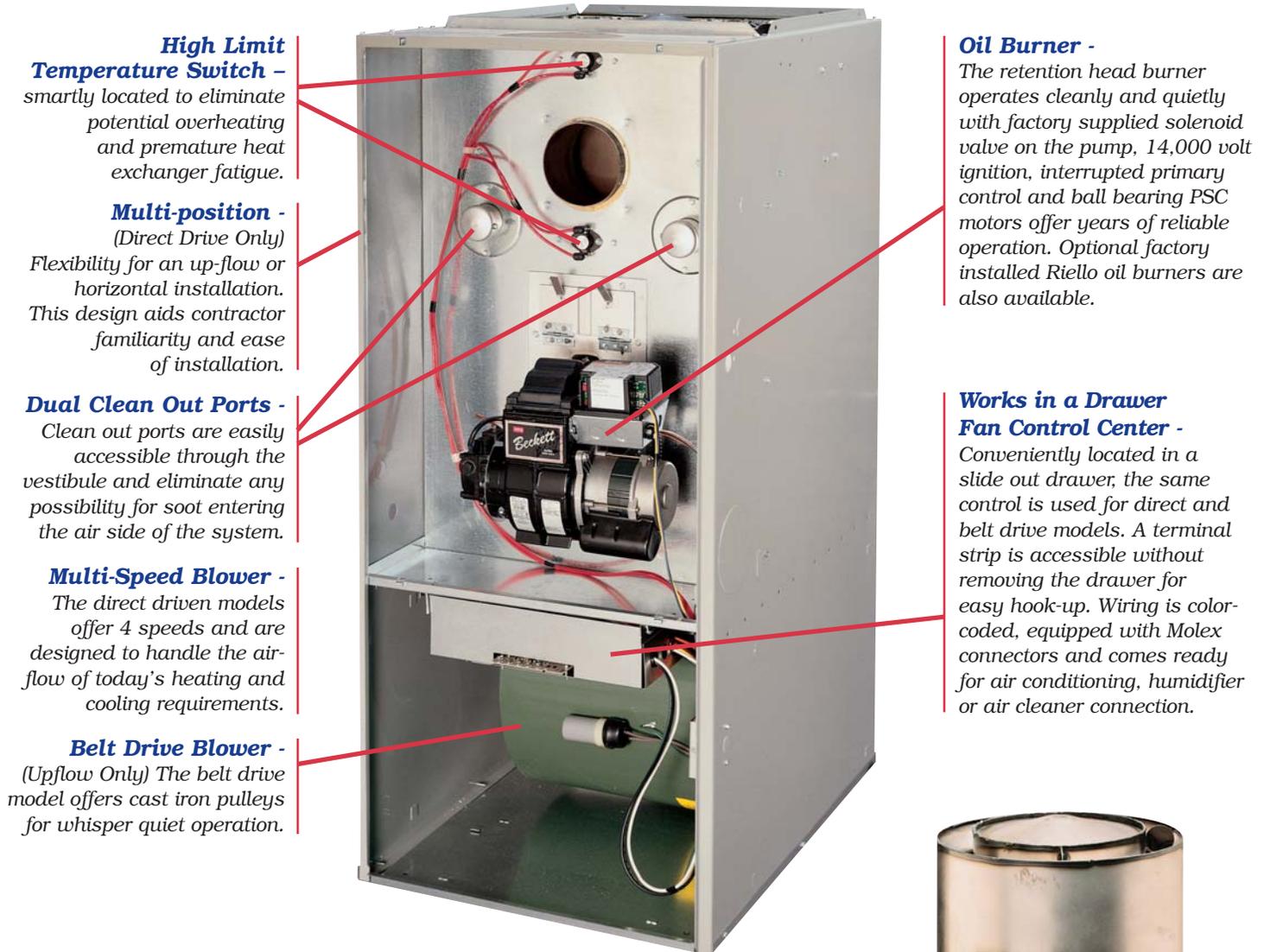
The HOB is built with an innovative design which includes a full circular, single pass heat exchanger to maximize efficiency. The burner features a new interrupted duty ignition, a solid state microprocessor control center and a PSC motor that is more powerful while using significantly less electricity. In addition, a solenoid oil valve provides for cleaner burning and a quick, efficient shutdown.

Quiet Operation

A completely insulated jacket, vestibule burner compartment, multi-speed direct drive (or belt drive) blower and solenoid oil valve contribute to a whisper quiet operation.

Designed for Performance. Built to Last.

HOB SERIES KEY FEATURES



High Limit Temperature Switch - smartly located to eliminate potential overheating and premature heat exchanger fatigue.

Multi-position - (Direct Drive Only)
Flexibility for an up-flow or horizontal installation. This design aids contractor familiarity and ease of installation.

Dual Clean Out Ports - Clean out ports are easily accessible through the vestibule and eliminate any possibility for soot entering the air side of the system.

Multi-Speed Blower - The direct driven models offer 4 speeds and are designed to handle the air-flow of today's heating and cooling requirements.

Belt Drive Blower - (Upflow Only) The belt drive model offers cast iron pulleys for whisper quiet operation.

Oil Burner - The retention head burner operates cleanly and quietly with factory supplied solenoid valve on the pump, 14,000 volt ignition, interrupted primary control and ball bearing PSC motors offer years of reliable operation. Optional factory installed Riello oil burners are also available.

Works in a Drawer Fan Control Center - Conveniently located in a slide out drawer, the same control is used for direct and belt drive models. A terminal strip is accessible without removing the drawer for easy hook-up. Wiring is color-coded, equipped with Molex connectors and comes ready for air conditioning, humidifier or air cleaner connection.

Easy Installation

- ◆ Barometric draft included
- ◆ Flue vent transition elbow included
- ◆ Flue clearance approvals of:
 - 4" sides and bottom,
 - 8" above
- ◆ Left or right alternate wiring access
- ◆ Tab-lock, field mounted filter rack included

Heat Exchanger

A full circular design, single pass heat exchanger ensures that flue gases uniformly travel through the unit, resulting in greater heat transfer. Twin access allows for easy and effective inspection and cleaning of the flue gas travel area throughout the radiator.



HOB • HIGHBOY MULTI-POSITION OIL-FIRED FRONT FLUE FURNACE SPECIFICATIONS

MODELS	HOB-60F - 3†	HOB-80F - 3	HOB-90F - 3†	HOB-120F - 3	HOB-120F - 5
AFUE	83%	80.5%	83.5%	81.0%	82.0%
MBH INPUT	69.7	97.8	105.2	140 BECKETT/133 RIELLO	140 BECKETT/133 RIELLO
MBH OUTPUT	58	79	89.2	113.4/107.7	114.8/109.1
COOLING CAPACITY	36,000	36,000	36,000	36,000	60,000
C.F.M. HEATING @ .20ESP (BELT)	1429	1429	1566	1566	N/A
C.F.M. HEATING @ .20ESP (DIRECT)	1173	1173	1507	1507	1677
C.F.M. COOLING @ .50ESP (BELT)	1220	1220	1196	1196	N/A
C.F.M. COOLING @ .50ESP (DIRECT)	1144	1144	1270	1270	1797
BLOWER DRIVE	BELT/DIRECT	BELT/DIRECT	BELT/DIRECT	BELT/DIRECT	DIRECT
MOTOR HP	1/2	1/2	1/2	1/2	3/4
BURNER OPTION	BECKETT/RIELLO	BECKETT/RIELLO	BECKETT/RIELLO	BECKETT/RIELLO	BECKETT/RIELLO
NOZZLE	.50 X 70W/.40 X 60W	.70 X 70W/.60 X 60 W	.75 X 70W/.60 X 60W	1.00 X 70 W/.75 X 60 W	1.00 X 70 W/.75 X 60 W
PUMP PRESSURE	100 PSI/160 PSI	100 PSI/145 PSI	100 PSI/150 PSI	100 PSI/160 PSI	100 PSI/160 PSI
JACKET HEIGHT" (C)	49.5	49.5	58	58	58
JACKET WIDTH" (A)	22	22	22	22	22
JACKET DEPTH" (B)	31	31	31	31	31
WARM AIR PLENUM" (D X E)	20.5 X 20	20.5 X 20	20.5 x 20	20.5 x 20	20.5 x 20
RETURN AIR PLENUM" (F X G)	22 X 14	22 X 14	22 x 14	22 x 14	22 x 14
FLUE SIZE"	5	5	6	6	6
FILTER" (PERM.)	16 x 25 x 1	16 x 25 x 1	16 x 25 x 1	16 x 25 x 1	16 x 25 x 1
CENTER LINE FLUE TO FLOOR" (H)	42	42	46	46	46
WEIGHT (LBS.)	190	190	270	270	270

† These specifications are obtained through use of a field installed kit.

Note: The HOB80 w/Beckett Burner may be de-rated by installing a .50 gal. or .65 gal. 70°W nozzle.
 The HOB120 w/Beckett Burner may be de-rated by installing a .75 gal. or .85 gal. 70°W nozzle.
 The HOB80 w/Riello Burner may be de-rated by installing a .40 gal. or .50 gal. 60°W nozzle.
 The HOB120 w/Riello Burner may be de-rated by installing a .60 gal. or .70 gal. 60°W nozzle.

Standard Equipment:

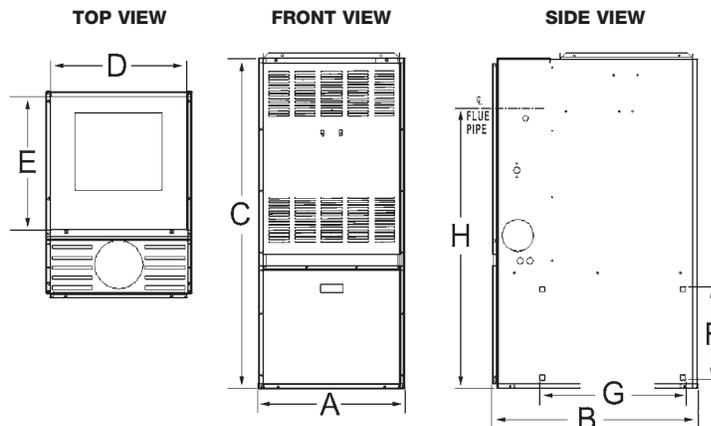
Fully enclosed, assembled and wired furnace. Beckett 3450 R.P.M. flame retention oil burner with single stage fuel pump, Honeywell constant ignition primary control, cad cell, fan and limit control, Fiberfrax® refractory chamber, or direct drive blower and motor, air filters, fiberglass insulated, baked enamel jacket, Lifetime Limited Warranty, 5-Year Commercial Warranty.

Optional Equipment:

Two stage pump. 40 VA transformer relay for add-on air-conditioning. Riello oil burner factory installed. Belt drive blower and motor.

Clearances:

Standard clearance 1" on sides, 2" above top of plenum, and 8" top and 4" from side/bottom of flue pipe.



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An ISO 9001-2000 Certified Company



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