

**Built for life...
built for living**



- I**nsulated, scratch resistant powder coated cabinet
- H**eavy-duty heat exchanger
- C**eramic Combustion Chamber
- C**hoice of oil burners
- F**an control center ready for air conditioning
- E**asy to service, multi-speed blower
- D**ual Clean-Out Ports
- W**ashable Air Filter

CROWN
Oil warm air furnaces

All CROWN furnaces are shipped ready to install and loaded with standard features

CROWN Oil warm air furnaces



For more than 56 years Crown has been meeting the demands of its customers with quality, dependable and efficient residential air conditioning and heating equipment, and we back it up with the best warranty in the business. But it doesn't end there. Crown maintains a full staff of sales, training and technical support personnel to provide you with the highest level of customer support available in the industry. That's what we call the "Crown Tradition".

That tradition continues with our complete line of oil-fired warm air furnaces, utilizing the latest in control and burner technology combined with the highest grade materials, finishes and craftsmanship to manufacture residential furnaces built to last. That's "peace of mind".

So become part of the Crown family and insist your oil dealer install a Crown warm air furnace. You'll be glad you did. We guarantee it.

Crown furnaces...built for life.

- Insulated cabinet, constructed with Seal-Tite design and scratch resistant powder coat finish. Lined with foil-faced high-density insulation to reduce heat loss and noise.
- Heavy-duty heat exchanger, manufactured from precision-made thick gauge sheet steel, 100% welded and quality tested to last a lifetime.
- Ceramic combustion chamber increases efficiency and provides for quiet operation.
- Oil burner options include individually boxed Beckett, Carlin or Riello flame retention burners with interrupted primary safety control, cad cell and PSC motors, pre-wired with a Molex connector to make installation a snap.
- Air conditioning ready fan control center, with conveniently located, color-coded wiring.
- High limit temperature switch located to protect the heat exchanger from potential overheating and excessive stress.
- Blower assembly includes a multi speed direct drive motor designed to be easily removed for servicing. Optional ECM motor available on the Shorty.
- Dual clean-out ports easily accessible from inside the vestibule, making service and cleaning quick and easy.
- Washable air filter included on all models except the Horizontal/Counterflow.
- Add-ons such as a humidifier or air cleaner are easily installed.

Specifications

Oil-Fired Warm Air Furnaces

Type	Hiboy - Upflow				Hiboy - Upflow - Shorty			Upflow-Loboy (F/R Flue)				Horizontal ⁷ / Counterflow			
Model Number	CHB 68-112				CSHB 60-90			CLBF 68-112/CLBR 68-112				CHC 68-96			
Heat Input Rate (BTUH)	140,000	119,000	105,000	84,000	106,250	85,000	70,000	140,000	119,000	105,000	84,000	119,000	105,000	84,000	
AFUE Seasonal Efficiency ¹ (%)	82.4	82.8	82.9	83.0	81.0	81.1	81.2	82.0/84.9	82.8/84.9	82.9/85.0	82.0/84.7	82.3/84.5	82.6/84.8	82.0/84.6	
Heat Output Rate (BTUH) ²	115,000	98,500	87,000	70,000	86,000	69,000	57,000	115,000	98,500	87,000	70,000	98,000	86,500	70,000	
Nominal Temperature Rise (°F)	85°				60° ³			85°				85°			
Burner Model	Beckett	AF w/ Quick Connect				AFG w/ Quick Connect			AF w/ Quick Connect				AF w/ Quick Connect		
	Carlin	EZ-1 w/ Quick Connect				EZ-1 w/ Quick Connect			EZ-1 w/ Quick Connect				EZ-1 w/ Quick Connect		
	Riello	F3 w/ Quick Connect				BF3 w/ Quick Connect			F3 w/ Quick Connect				F3 w/ Quick Connect		
Nozzle Rating (gpm)	Beckett	1.00	0.85	0.75 ⁴	0.60	0.75	0.60 ⁴	0.50	1.00	0.85	0.75 ⁴	0.60	0.85	0.75 ⁴	0.60
	Carlin	0.85	0.75	0.65 ⁴	0.50	0.75	0.60 ⁴	0.50	0.85	0.75	0.65 ⁴	0.50	0.75	0.65 ⁴	0.50
	Riello	0.90	0.80	0.70 ⁴	0.55	0.70	0.60 ⁴	0.50	0.90	0.80	0.70 ⁴	0.55	0.80	0.70 ⁴	0.55
Spray Angle	B / C / R	80° / 60° / 60°				80° / 80° / 80°			80° / 60° / 60°				80° / 60° / 60°		
Spray Pattern		Hollow				Hollow			Hollow				Hollow		
Pump Pressure (psig)	Beckett	130				120			130				130		
	Carlin	140				120			140				140		
	Riello	150				140			150				150		
Nominal Flue Size (in)		6"				5"			6" Front Flue		6" Rear Flue		6"		
Combustion Chamber Type		Preformed Ceramic Fiber				Preformed Ceramic Fiber			Preformed Ceramic Fiber				Preformed Ceramic Fiber		
Blower Type		Direct Drive - 10" Wheel				Direct Drive - 10" Wheel			Direct Drive - 10" Wheel				Direct Drive - 10" Wheel		
Motor Horsepower - Type		1/2 PSC				1/2 PSC		3/4 ECM	1/2 PSC				1/2 PSC		
Speed(s)		4				4		Variable	4				4		
CFM Output Range @ 0.4" w.c.		990-1360				846 -1553		799 -1622 ⁵	930 -1420		990 -1420		990 -1360		
Maximum Recommended A/C		3-1/2 Tons ⁶				4 Tons		4 Tons	3-1/2 Tons ⁶				3-1/2 Tons ⁶		
Filter Type		Washable				Washable			Washable				Not Supplied		
Filter (Quantity) Size		(1) 16 x 25				(1) 15 x 24-1/2			(2) 10 x 20				Not Supplied		
Voltage/ Hertz / Phase		120/60/1				120/60/1			120/60/1				120/60/1		
Maximum Fuse Size (amps)		15				15			15				15		
Heat Exchanger Material Thickness		13 Ga				16 Ga			13 Ga				13 Ga		
Supply Air Outlet Size (in)		20 x 20				19 x 19			20 x 20				16-1/8 x 16-1/8		
Return Air Inlet Size (in)		14-3/16 x 24				15 x 24-1/2			20 x 12-1/2				16-1/8 x 16-1/8		
Casing Height x Width x Depth		58 x 22-1/8 x 31				45 x 21 x 30			41-3/8 x 22-1/16 x 47				22-1/4 x 61-3/16 x 22-1/4		
Shipping Weight (lbs)		290				225			315				280		

1. AFUE (Annual Fuel Utilization Efficiency) ratings are based on U.S. Department of Energy test procedures.
2. Output BTUH based on AFUE rated by manufacturer.
3. A 70° temperature rise can be achieved by changing the blower settings.
4. Factory installed nozzle. All other sizes require a nozzle change in the field.
5. CFM ratings for units equipped with ECM variable speed motor are independent of static pressure rating.
6. 4.0 ton capacity available on special order.
7. Horizontal left hand warm air supply standard. Horizontal right hand warm air supply field reversible.

Optional Direct Sidewall Vent Kit available

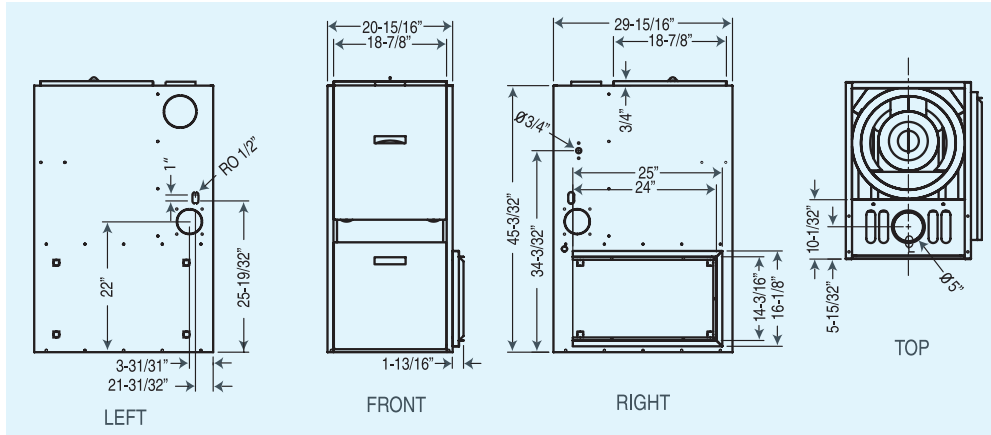
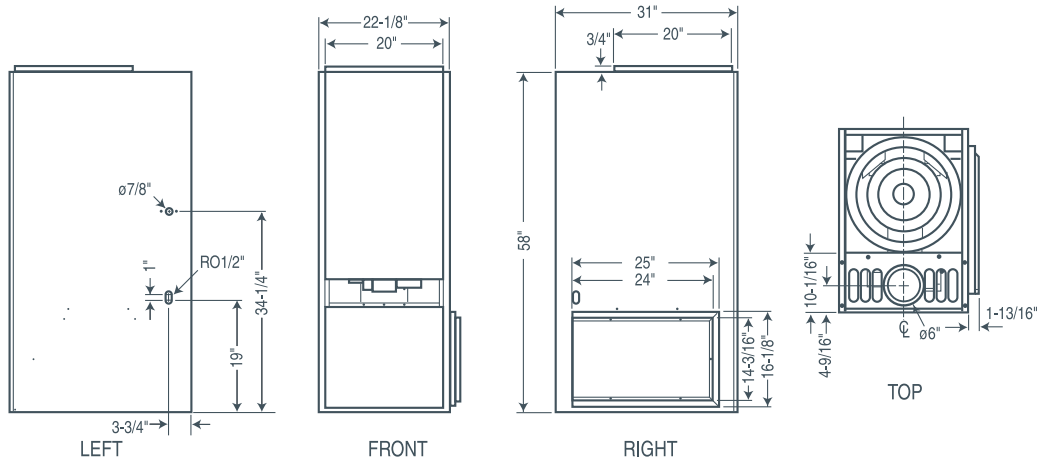


A CROWN direct sidewall vent kit is available for use with the new **Shorty model** furnace (CSHB 60-90). Direct sidewall venting is a cost effective means of venting combustion products through an outside wall of a house, particularly when a traditional chimney requires extensive repair.

- Since outside air is drawn in to support combustion, a direct vent system will increase the efficiency of the Shorty, especially in new, tightly sealed houses.
- The burner provides the necessary pressure for the adequate venting of flue products meaning no additional motors or controls are required.
- Only one wall opening is required.

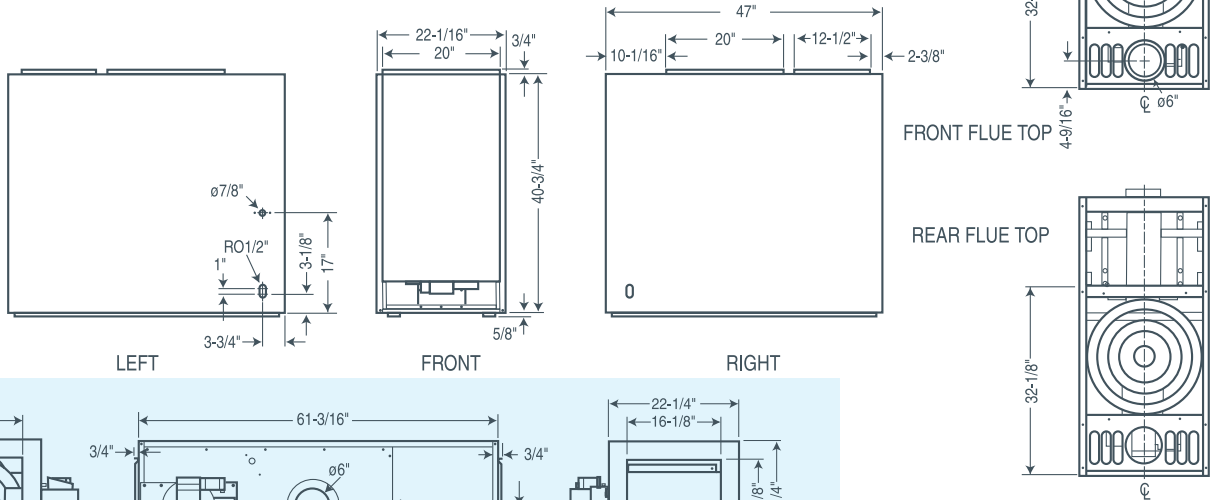
DIMENSIONS

Hiboy



Hiboy Shorty

Loboy



Horizontal
Counterflow

AVAILABLE FROM

CROWN Boiler Co.

Since 1949, homeowners have depended on us for quality, value and service

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