

# Williamson

# CHB

Series 2

## Multi-Speed Direct Drive Motor *or* Variable Speed ECM Motor

### Ratings - 2 sizes

91,000 to 140,000 Btuh Input

0.65 to 1.00 GPH #2 Fuel Oil



## Centennial High Boy Oil Furnace

- **AFUE's to 86%**
- **Heat exchanger**
  - Heaviest in the industry
  - Front flue with top or right side venting option
  - Interior baffling for maximum efficiency
  - Dual spring-loaded clean-out ports for easy service and maintenance
  - Spring-loaded observation port with test port
  - Heavy gauge burner mounting plate with studs and nuts
- **Blower**
  - Multi-speed direct drive
  - Variable Speed ECM
  - Slide-out blower/motor – easily removed for service
- **Cabinet**
  - Appliance finish powder coat paint
  - Heavy gauge “Seal-Tite” construction
  - Foil-faced insulation for hand-cool surface
  - Fully-enclosed burner and controls
- **Combustion Chamber**
  - Preformed slide-out chamber for easy service
- **Burner and controls**
  - Factory-wired with simple plug-in connections
  - PSC motor
  - Solid state ignitor and solenoid valve



CERTIFIED

When Used with  
Beckett & Carlin  
Approved Oil Burners



# Williamson®

# RATINGS

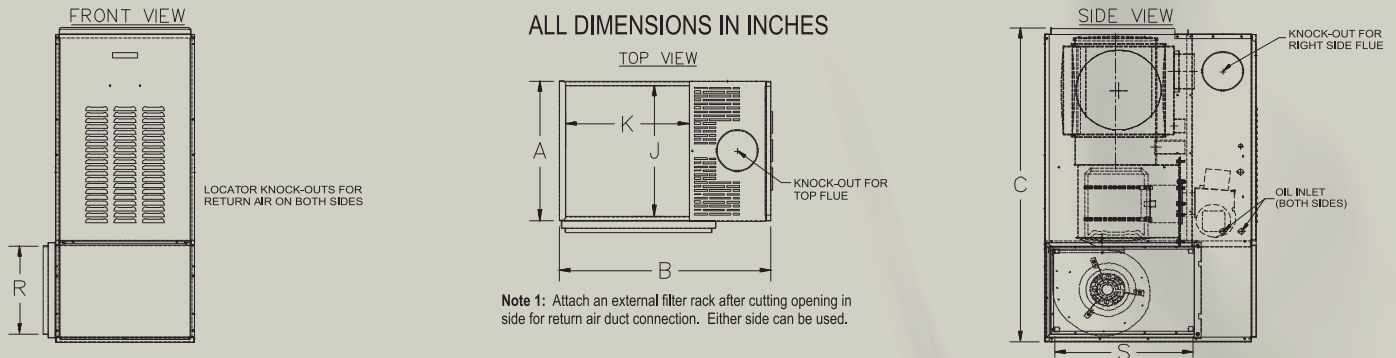
Model	Firing Rate	Input	Output	Direct Drive Blower				Variable Speed Blower				Maximum cooling capacity (tons)
				Blower size	Blower motor hp	Blower CFM		Blower size	Blower motor hp	Blower CFM Range		
						@ 0.25° WC	@ 0.50° WC			Min.	Max	
CHB-105	0.65	91,000	79,500	10-10	1/2	1050	1025	10-10	3/4	640	1400	3 1/2
	0.75	105,000	90,000	10-10	1/2	1175	1100	10-10	3/4	640	1400	3 1/2
	0.85	119,000	101,000	10-10	1/2	1425	1300	10-10	3/4	640	1400	3 1/2
CHB-140	1.00	140,000	119,000	12-10	1	1600	1575	12-10	1	830	2000	5

NOTE: Filter sizes required: CHB-105 (1) 16" x 24" - CHB-140 (1) 20" x 30"  
Refer to installation manual for detailed air flow information.

CHB-105		
BURNER	Input (GPH)	AFUE
RIELLO 40-F3	0.65	86.0%
	0.75	85.5%
	0.85	85.4%
BECKETT AFG	0.65	86.0%
	0.75	85.0%
	0.85	85.3%
CARLIN EZ-1	0.65	86.0%
	0.75	85.5%
	0.85	85.4%

CHB-140		
BURNER	Input (GPH)	AFUE
RIELLO 40-F5	1.00	85.2%
BECKETT AFG	1.00	85.0%
CARLIN EZ-1	1.00	86.0%

# DIMENSIONS



Model	Furnace casing			Warm air supply (top)		Return air (side)		Flue pipe diam.	Shipping Weight (Pounds)
	Width A	Depth B	Height C	Width J	Depth K	Width R	Depth S		
CHB-105	22-1/4	33-3/4	53-1/2	21	20	15	23	6	265
CHB-140	25-1/4	37-1/4	58-3/4	24	23-1/4	19	29	7	315

Note: CHB furnaces are approved for "0" clearance to combustible construction. Refer to installation manual for details and proper installation.

## EQUIPMENT

- Factory-assembled
- Hot-rolled steel heat exchanger, pressure tested to assure leak-tight construction
- 10-gauge primary heat exchanger
- 14-gauge secondary heat exchanger
- Rugged 20-gauge cabinet with powder coat finish
- Air conditioning fan center
- Electrical box with external low-voltage terminal strip
- Limit control with continuous fan on selector switch
- Barometric damper provided
- High-efficiency flame retention burner (Beckett AFG, Carlin or Riello)
- Variable Speed ECM motor fan center is compatible with 2-stage A/C compressors

## WARRANTY

- Limited lifetime warranty on heat exchanger
- 5-year limited warranty on parts
- Optional 5 - or 10-year parts and labor warranty



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In the interest of continual improvement in product and performance, Williamson reserves the right to change specifications without notice.