

# 86% Efficient!

## UPGRADEABLE TO 87% AFUE!

See back for details



# Burnham®

## V8H™

### Oil Fired, Chimney Vented, Cast Iron Boiler

- 86% AFUE



**ENERGY STAR®-certified 87% AFUE available with upgrade kit**  
(see back for details)

- Cast iron sectional design
- Seven sizes available, 1.00-2.60 GPH
- Optional tankless water heater
- Multiple oil burner options for water boilers (Beckett, Carlin), includes burner cover for quiet operation
- Durable push-nipple connections between boiler sections – will not deteriorate when exposed to petroleum-based antifreeze
- Easy to clean and service – side and top cleanouts provide complete access to flueways
- Full swing-away burner door
- Lifetime limited warranty

### Intelligent Oil Boiler Control

- Standard on V8H water boilers\*
- Combines aquastat and relay functions into a single module
- Two customizable integrated switching relays for easy addition of additional heating zone or indirect water heater
- Energy saving “thermal purge”, which works by circulating residual warm water (140° or above) in the heating system before firing the boiler
- LED display for boiler status and trouble codes
- Extensively tested and proven in thousands of existing installations



**Burnham®**  
by  
**U.S. Boiler Company**



\*Optional Hydrolevel hydronic control available on some models

# V8H: Technical Information



## Standard Equipment

- Cast iron section assembly: Wet base construction, quick release top outlet canopy, removable right side flue plates
- Intelligent Oil Boiler Control System (water only)
- Cast iron swing door
- Flange mounted retention oil burner
- Insulated deluxe jacket with lift-off side panel
- Boiler drain valve
- Safety relief valve
- Pressure temperature gauge
- High limit & relay
- Draft regulator
- Gauge glass set (steam only)
- Steam gauge (steam only)
- Probe-type LWCO (steam only)
- 8 and 9 section models always shipped as individually crated knock-downs

## V8H Ratings & Specifications

Model No.	Burner Capacity		DOE Heating Capacity <sup>2</sup> (MBH)	Net AHRI <sup>3</sup> (MBH)	AFUE %	Steam (Sq. Ft.)	Approx. Ship Wt. (lbs.)
	GPH	MBH <sup>1</sup>					
V8H3WE	1.00	140	120	104	86.0	—	534
V8H4WE	1.20	170	148	129	86.1	—	643
V8H5WE	1.65	231	200	174	86.0	—	763
V8H6WE	1.90	266	230	200	86.0	—	883
V8H7WE	2.10	294	255	222	86.1	—	1003
V8H8S	2.35	329	266 <sup>4</sup>	200	81.4 <sup>5</sup>	833	1121
V8H8W			275 <sup>4</sup>	239	82.0 <sup>5</sup>	—	1121
V8H9S	2.60	364	298 <sup>4</sup>	224	82.3 <sup>5</sup>	933	1245
V8H9W			299 <sup>4</sup>	260	82.3 <sup>5</sup>	—	1245

### MODEL NUMBER NOTES:

Add "H" suffix to model numbers for Hydrolevel Hydrostat control (where available)  
 Add "T" suffix to selected model numbers for Tankless DHW coil  
 Packaging Availability (prefix): P= Packaged, Assembled in crate (sec 3-7),  
 KD= Knockdown (sec. 3-7), CK= Crated Individual Knockdown (sec. 8, 9)

### NOTES:

- (1) MBH refers to thousands of BTU per hour
- (2) Based on standard test procedure by the U.S. Department of Energy at combustion conditions of 13.0% CO<sub>2</sub>
- (3) Ratings are based on piping and pickup allowance of 1.15 for water
- (4) Gross output
- (5) Thermal efficiency

## Energy Star® Upgrade Models - Kits & Ratings

Model No. (W-Water)	Burner Capacity		DOE Heating Capacity (MBH)	Net AHRI (MBH)	Energy Star AFUE %	Upgrade Kit Required
	GPH	MBH				
V8H3WES	0.90	126	109	95	87.0	110333-03
V8H4WES	1.20	170	148	129	87.0	110333-03
V8H5WES	1.55	220	190	165	87.0	110333-05
V8H6WES	1.85	260	224	195	87.0	110333-05
V8H7WES	2.10	287	249	217	87.2	110333-07

## Dimensions (inches)

Size	Dimensions (inches)			Min. Chimney Requirements		
	'A'	'B'	'C'	Diameter (In.)	Rectangle (In. x In.)	Height (Feet)
V8H3	17-1/8"	9-1/8"	6"	6"	8 x 8"	15'
V8H4	22-1/8"	11-5/8"	6"	6"	8 x 8"	15'
V8H5	27-1/8"	14-1/8"	7"	7"	8 x 8"	15'
V8H6	32-1/8"	16-5/8"	7"	7"	8 x 8"	15'
V8H7	37-1/8"	19-1/8"	8"	8"	8 x 8"	15'
V8H8	42-1/8"	21-5/8"	8"	8"	8 x 12"	15'
V8H9	47-1/8"	24-1/8"	8"	9"	8 x 12"	15'

Upgrade kits available for standard boilers without "S" in model numbers  
 Only available for Beckett and Carlin burners

