



**Slant/Fin**

Series Gas Boiler

Condensing High Efficiency Stainless Steel



www.slantfin.com



**Free 5 Year Parts & Labor Warranty** when registered upon installation.

\* 5 year parts and labor warranty excludes 340-399 models.



Up to **95% AFUE**

## Make the right move.

When it comes to heating your home, it's important to choose a dependable boiler that will give you optimum fuel savings. The CHS boiler offers different sized models to match the heating requirements of the home. These boilers are modulating, condensing, stainless steel, wall mount boilers. With sizes ranging from 85,000-399,000 Btu/hr inputs and modulation up to 10:1 turndown maximizes your fuel savings. They offer installation flexibility with options such as top or bottom supply and return connections, top or bottom gas connections, vent runs of up to 150ft and five vent termination options.



Cascades up to 8 units

### Efficiency

Engineered to the highest of standards, the CHS Stainless Steel Fire Tube design Heat Exchanger can deliver up to 99% Thermal Efficiency, and a fully modulating burner. It is the clear choice when choosing a boiler in today's "Go Green" focused market.

### Dependable

The new CHS Boiler is yet another example of Slant/Fin's goal of providing the very best heat exchanger designs and Condensing High Efficiency Boiler options to the industry. The CHS series boiler is manufactured to the highest industry standards. The ASME certified fire-tube exchanger is constructed of stainless steel for better corrosion resistance. Each boiler is factory tested three ways to be sure of top performance. The CHS Boiler, combined with Slant/Fin's industry leading Customer/ Technical Service departments, results in a sure fire winning choice.

- Cascading up to 8 units
- Stainless steel down-fired fire tube design
- Models from 85,000 to 399,000 BTU/Hr
- Full modulation up to 10:1 turndown
- Advanced Honeywell Sola Boiler Controller with backlit screen display
- Venting to 150'
- 2" venting option on two models
- PVC, CPVC, Polypropylene or Stainless Steel venting



We Build Trust and Comfort

# CHS Series Boiler

## Boiler Features

- Easy to install and maintain
- Down-fired, Fire Tube stainless steel boiler
- Stainless steel internal water connections
- Certified internal low water cutoff with test button
- Fully-modulating combustion system
- Condensate pump electrical receptacle
- Built-in gas drip leg
- Wall-mount configuration with optional floor stand
- Improved venting orientation with flue test port
- On/off power service switch, built in
- High-quality metallic clear coat finish
- High-energy external spark generator for reliable ignition
- ASME certified boiler
- Certified ANSI Z21.13
- 15-year limited warranty

## Control Features

- Accurate control with Honeywell Sola Boiler Control with backlit screen displaying system info with easy step by step programming
- Outdoor reset system water temperature improves efficiency and heating comfort
- Built in lead lag multiple boiler cascade control handles up to 8 CHS boilers. 4.2 – 10 mA boiler external boiler management input
- Can control three separate temperature setpoints
- Controls up to three circulators
  - a. DHW Circulator
  - b. Boiler Circulator
  - c. System Circulator
- Modbus capability is built in
- Built in boiler diagnostics
- Built in DHW and space heating control
- Shut down based on outdoor temperature
- Alarm contacts
- Freeze protection

### Down-fired Fire Tube

The CHS heat exchanger is ASME certified, burner is down-fired. The tubes have a dimpled design to optimize heat transfer, which increases energy efficiency. The Fire Tubes provide generous space for flue gas to pass, and significantly reduce the need for cleaning due to the vertical configuration and self-cleaning operation when in condensing mode.

### Flexibility

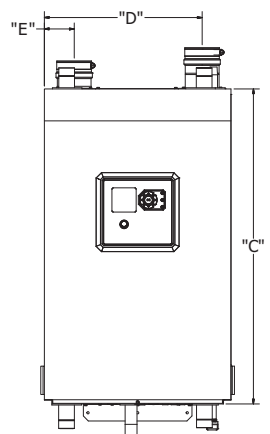
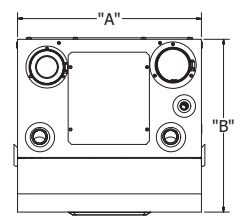
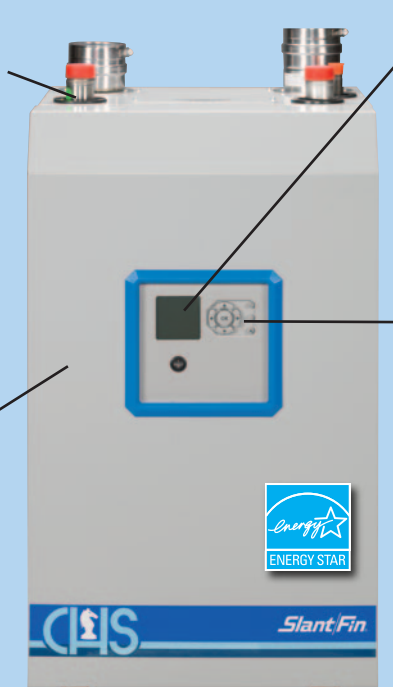
The design of the CHS offers more flexibility than any other boiler on the market, with vent runs up to 150', five vent termination options, 2" optional venting on some models and plumbing and gas connections at either top or bottom.

### User Interface

Provides easy navigation to all of the controller's parameters and setpoints. The backlit screen continuously displays system information to ensure safe and efficient operation.

### The Control

The Slant/Fin CHS boiler has an advanced Honeywell control that provides easy navigation and offers complete auto-diagnostics. All the information needed to set up, monitor boiler functions and service is easy to access. The easy to use control allows for multiple circulators and temperature zones and has an integrated cascade feature to join multiple boilers.



## Boiler Dimensions

MODEL	"A"	"B"	"C"	"D"	"E"
CHS-85	19 3/4	14 3/4	33 3/8	16 7/8	3 5/8
CHS-110	19 3/4	14 3/4	33 3/8	16 7/8	3 5/8
CHS-154	19 3/4	18 7/8	33 3/8	15 3/8	3 1/8
CHS-175	19 3/4	18 1/2	33 3/8	16 3/4	3
CHS-201	19 3/4	18 1/2	33 3/8	16 3/4	3
CHS-285	21 1/4	18 7/8	33 3/8	16 3/4	3
CHS-340	25 1/4	20	36 5/8	22 1/2	3 7/8
CHS-399	25 1/4	20	36 5/8	22 1/2	3 7/8

CHS GAS SERIES BOILER RATINGS						Vent Diameter (Inches)	Max Vent Length NG/LP (Ft)	Approx. Water Content (Gal.)	Supply & Return Piping Male NPT (Inches)	Gas Connection Male NPT (Inches)
Model	Max Input NG/LP (MBH)	Min Input NG/LP (MBH)	D.O.E. Capacity (MBH)	Net AHRI (MBH)	A.F.U.E. %					
CHS-85	85	17/17.6	78	68	95.0	2" or 3"	150**	3.2	1	1/2
CHS-110	108	21.6/22.6	99	86	95.0	2" or 3"	150**	3.2	1	1/2
CHS-154	154	15.4	141	123	95.0	3"	150	3.2	1	1/2
CHS-175	175	31	163	141	95.0	3"	100	4.9	1 1/4	1/2
CHS-201	200	20	185	160	95.0	3"	150	4.9	1 1/4	1/2
CHS-285	285	28.5	263	228	95.0	3"	150	4.9	1 1/4	1/2
CHS-340	340	39.9	324†	282	95.4*	4"	100	7.1	1 1/2	3/4
CHS-399	399	39.9	380†	330	95.4*	4"	100	6.4	1 1/2	3/4

\*\*Max length of 150' for 3" venting only, 100' for 2" vent † Gross output \* CHS399 & CHS340 efficiency is Thermal Efficiency • Reducer required



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SLANT/FIN CORPORATION, Greenvale, N.Y. 11548  
Phone: (516) 484-2600 • FAX: (516) 484-0933

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