



# CHALLENGER Solo

## High Efficiency Condensing Gas Boilers

The Challenger Solo Condensing Boiler has a reliable copper tube/aluminum block heat exchanger paired with an advanced control that automatically regulates the capacity of the boiler to maximize efficiency without compromising comfort.

- Up to 95% AFUE
- Whisper Quiet
- Compact for Closet Applications
- ASME Stamped Heat Exchanger
- Compatible with Standard Glycol
- Direct Vent Sealed Combustion
- 2" & 3" PVC, CPVC, PP, SS Venting Options
- Concentric Venting Option
- Low NOx - 2012 SCAQMD Certified
- 5 Models from 51 to 145 MBH
- Outdoor Reset Control
- Indirect Water Heater Compatible
- Unparalleled Reliability through Simplicity
- 1 Year Limited Parts Warranty
- 10 Year Limited Heat Exchanger Warranty
- 5 & 10 Year Extended Warranty Options



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## Performance Specifications

Boiler Model	Fuel	Input Modulation MBH	AFUE	DOE Heating Capacity MBH	Turndown Ratio	Net AHRI Rating MBH
CC50s	Natural Propane	13.5 to 51	95%	46	3.8 : 1	40
CC85s	Natural Propane	23 to 84	94%	75	3.7 : 1	65
CC105s	Natural Propane	29 to 106	94%	94	3.7 : 1	82
CC125Hs	Natural Propane	20 to 125	95%	111	6.3 : 1	97
CC150s	Natural Propane	33 to 145	92.3%	129	4.4 : 1	112

## Connections/Dimensions/Data

Boiler Model	Supply/Return Connections	Gas Connections	Vent/Air Diameter	Dimensions D x W x H	Weight Lbs
CC50s	1"	1/2"	3"	9-1/2" x 17-3/4" x 23-1/4"	66
CC85s	1"	1/2"	3"	9-1/2" x 17-3/4" x 23-1/4"	66
CC105s	1"	1/2"	3"	9-1/2" x 17-3/4" x 25-1/2"	73
CC125Hs	1"	1/2"	3"	9-1/2" x 17-3/4" x 28"	80
CC150s	1"	1/2"	3"	9-1/2" x 17-3/4" x 28"	80

## Standard Features

### Heat Exchanger

- Copper waterway cast directly into the heat exchanger
- Cast aluminum heat exchanger with vertical flueways
- Compatible with Standard Glycol
- 10 year limited warranty

### Burner

- Stainless steel burner with woven fiber mesh
- Direct spark ignition
- Variable speed blower assembly
- Negative pressure regulated gas valve
- Propane conversion kit included

### Sensors

- Outdoor temperature
- Boiler supply temperature
- Boiler return temperature
- Flue temperature
- Boiler system pressure

### Intake and Venting

- 2" & 3" Parallel venting (standard)
- Concentric venting (optional)
- PVC, CPVC, PP, SS material options

### Control

- Digital control displays in US customary or metric units
- Advanced modulating temperature control
- Outdoor reset
- Boiler low water protection
- Freeze protection
- High limit protection

### Electrical Connections

- 120V/60Hz Power supply
- Primary pump
- Thermostat
- Outdoor sensor
- Indirect water heater aquastat
- Indirect water heater pump

### Piping Connections

- EZ Install piping mounting bracket
- 1" NPT boiler supply and return
- 3/4" Condensate drain
- Simple primary/secondary connections with Timesaver manifold

Triangle Tube reserves the right to make product changes or improvements at any time without notice.



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