



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



Challenger Solo

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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