



**NEW
50 MBH
Model!**

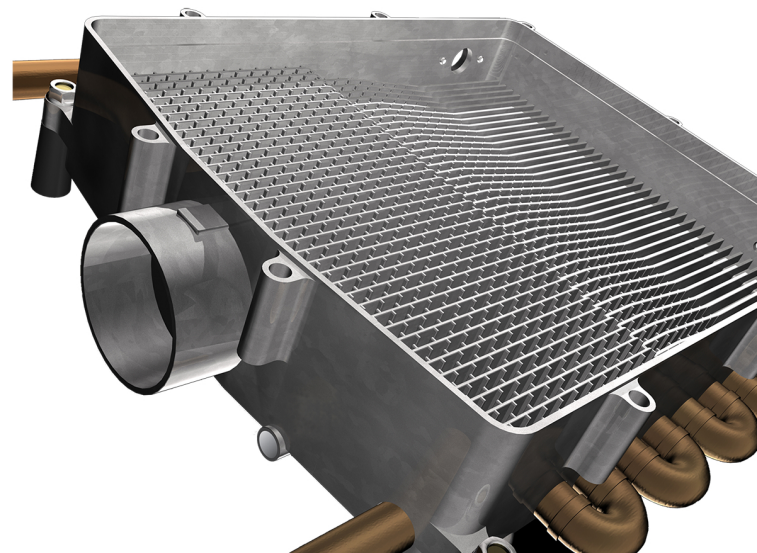
Challenger Solo

Condensing High Efficiency Gas Boiler



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 94% AFUE
 - > 5 Models - 50 to 145 MBH
 - > Whisper Quiet
 - > Compact for Closet Applications
 - > Compatible with Standard Glycol
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- > Direct Vent Sealed Combustion
 - > 2" & 3" PVC, CPVC, PP, SS Venting Options
 - > Concentric Venting Option
 - > SCADMD Low NOx Compliant
 - > Outdoor Reset Control
 - > Indirect Water Heater Compatible



Technical Specifications



Model	CC 50s	CC 85s	CC 105s	CC 125s	CC 150s
Input Modulation (MBH)	13.5 to 50	23 to 84	29 to 106	33 to 124	33 to 145
AFUE	94%	94%	94%	94%	92.3%
DOE heating Capacity (MBH)	46	75	94	110	129
Net Boiler AHRI Rating (MBH)	40	65	82	96	112
Fuel	NG and LP	NG and LP	NG and LP	NG and LP	NG and LP
General Specifications					
Cabinet Height (Inch)	23 1/4	23 1/4	25 1/2	28	28
Cabinet Width (Inch)	17 3/4	17 3/4	17 3/4	17 3/4	17 3/4
Cabinet Depth (Inch)	9 1/2	9 1/2	9 1/2	9 1/2	9 1/2
Weight (Lbs)	66	66	73	80	80

- Boiler Certified to ANSI Z21.13 / CSA 4.9
- 5 and 10 year parts and labor plans available
- Convenient spare parts kit available



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 (non-prorated) limited warranty

Burner

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

Sensors

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

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

