



Challenger COMBI

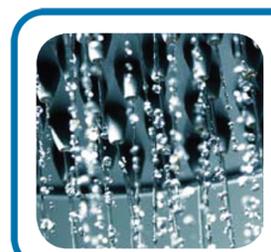
Combination High Efficiency Boiler and Domestic Water Heater

HEAT and Hot Water

.... **TOGETHER** in one Appliance

Features

- » High Efficiency - 94% AFUE
- » Whisper Quiet
- » Compact for Closet Applications
- » Compatible with Standard Glycol
- » Direct Vent Sealed Combustion
- » 2" & 3" PVC, CPVC, PP, SS Venting Options
- » Concentric Venting Option
- » SCAQMD Low NOx Compliant
- » DHW - Low Lead Content Certified
- » Multiple DHW Modes Allows User to Select Balance between Speed and Efficiency
- » Outdoor Reset Control
- » Unparalleled Reliability through Simplicity
- » Simplified Design Eliminates Domestic Heat Exchanger, Circulator & Diverter Valve



CONDENSES IN BOTH SPACE HEATING AND DOMESTIC HOT WATER MODES

Technical Specifications



Model	CC 105	CC 125
Input Modulation (MBH)	29 to 106	33 to 124
AFUE	94%	94%
DOE Heating Capacity (MBH)	94	110
Net Boiler IBR Rating (MBH)	82	96
Fuel	NG and LP	NG and LP
DHW flow rate at 70°F delta T (GPM)	2.5	3.0
DHW minimum flow rate (GPM)	0.5	0.5
DHW maximum temperature (F [C])	149 (65)	149 (65)
Maximum CH output temperature (F [C])	194 (90)	194 (90)
Cabinet Height (Inch)	25 1/2	28
Cabinet Width (Inch)	17 3/4	17 3/4
Cabinet Depth (Inch)	9 1/2	9 1/2
Weight (Lbs)	73	80



- The Challenger is certified as a boiler and a water heater.
 - Boiler Certified to ANSI Z21.13/ CSA 4.9
 - Water Heater Certified to ANSI Z21.10.3 / CSA 4.3
 - Water Heater Certified Low Lead Content Per NSF/ANSI 372.
- 5 and 10 year parts and labor plans available.
Convenient spare parts kit available.

Standard Features

Heat Exchanger

- Separate boiler and DHW copper waterways 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
- DHW temperature
- DHW flow
- 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
- 3 DHW modes (Self learning ECO, standby, and on-demand)
- DHW priority
- Thermostatic DHW mixing / anti-scald valve

Electrical Connections

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

Piping Connections

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

