

Introducing The New

# Ultra

Series 3

## Ultra Efficient Condensing Gas Boiler

Ratings - 6 sizes

80 MBH

105 MBH

155 MBH

230 MBH

299 MBH

*Just Added!* 399 MBH



Weil-McLain Is The Contractor's Choice

**Voted 2008  
Top Brand of  
Gas Boilers**

#1 brand preferred by  
U.S. HVAC contractors  
12% lead over the  
nearest competition



FROST & SULLIVAN

UP TO  
**96.4%**  
EFFICIENT



**WEIL-McLAIN**



# Ultra Efficient Condensing Gas Boiler



Models	Ultra 80	Ultra 105	Ultra 155	Ultra 230	Ultra 299	Ultra 399
<b>Packaged Boiler</b>	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
Natural Gas	383-500-700	383-500-702	383-500-703	383-500-704	383-500-705	383-500-706
Propane Gas	383-500-701	383-500-702*	383-500-703*	383-500-704*	383-500-705*	383-500-706*
Taco Pump	007	007	0014	0014	0014	2400-20

\*Natural Gas field convertible to LP as standard equipment except for the Ultra 80

## Optional Equipment

Wall Mounting Kit	389-900-180	389-900-180	389-900-180	389-900-180	389-900-180	389-900-180
LWCO (w/harness & test button)	511-100-005	511-100-005	511-100-005	511-100-005	511-100-005	511-100-005
Concentric Vent Kit (3")	383-500-350	383-500-350	383-500-350	383-500-350	383-500-350	-
Indirect-Fired Water Heaters	Matching Ultra Plus 40, 60, 80, 100, 110, and 119 Water Heaters are available					

## Ratings

CSA Input (Maximum)	80 MBH	105 MBH	155 MBH	230 MBH	299 MBH	399 MBH
CSA Input (Minimum)	16 MBH	21 MBH	31 MBH	46 MBH	62 MBH	80 MBH
DOE Heating Cap.	71 MBH	94 MBH	139 MBH	207 MBH	270 MBH	*365 MBH
Net I=B=R	62 MBH	81 MBH	123 MBH	183 MBH	234 MBH	317 MBH
<b>DOE AFUE</b>	<b>95.2%</b>	<b>95.3%</b>	<b>95.6%</b>	<b>95.4%</b>	<b>96.4%</b>	<b>*91.7%</b>

\*Combustion Efficiency

## Data

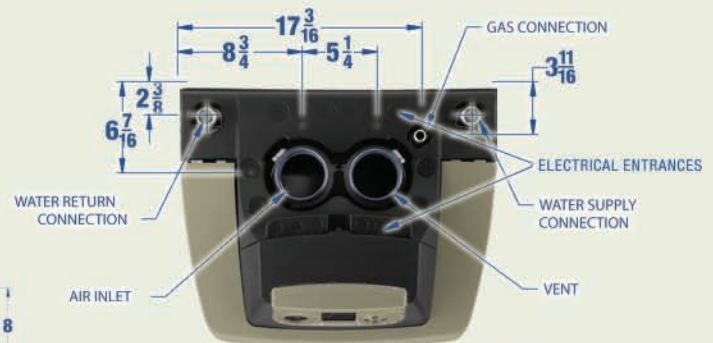
Vent Size	2" or 3"	2" or 3"	3"	3" or 4"	4"	4"
Vent Material	PVC/CPVC	PVC/CPVC	PVC/CPVC	PVC/CPVC	PVC/CPVC	PVC/CPVC
Combustion Air Size	2" or 3"	2" or 3"	3"	3" or 4"	4"	4"
Water Volume	.69 Gal.	.82 Gal.	1.17 Gal.	1.57 Gal.	2.1 Gal.	2.1 Gal.
Approx. Ship. Weight	199 lbs.	207 lbs.	234 lbs.	246 lbs.	297 lbs.	297 lbs.

## Dimensions

Min. Recommended Pipe Size	1"	1"	1-1/4"	1-1/4"	1-1/2"	1-1/2"
Supply Tappings	1"	1"	1"	1"	1-1/4"	1-1/4"
Return Tappings	1"	1"	1"	1"	1-1/4"	1-1/4"
Gas Connection Size	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"



Ultra boilers are low NOx Certified by the South Coast Air Quality Management District (Rule 1146.2).



## Standard Equipment

### Boiler

- Cast Aluminum Block
- 30 PSI ASME Relief Valve
- Drain Valve
- Stainless Steel Burner (80, 105) with woven steel fiber mesh (155, 230, 299 & 399)
- Direct Spark Ignition
- Variable Speed Blower Assembly
- Venturi mixing system with Air Silencer
- Negative Pressure Regulated Gas Valve
- 50 VA Transformer
- Dual Scale Temp. & Pressure Gauge
- Outlet Water Temp. Sensor
- Inlet Water Temp. Sensor
- Flue Gas Temp. Sensor
- Outdoor Temp. Sensor
- System Water Temp. Sensors

### Ucontrol Module

- 3.5" LCD Display
- Three boiler priorities with multiple preset system configurations
- Color-coded removable terminal blocks
- Multiple boiler functionality
- Alarm control functionality
- Ignition Control
- High Limit & Modulating Temp. Control
- Low Water Protection
- Outdoor Reset
- Ability to control any combination of 3 circulators

### Boiler Circulators

- 1" Flanges (80 & 105) Taco 007
- 1" & 1-1/4" Flanges (155 & 230) Taco 0014
- 1-1/4" & 1-1/2" Flanges (299) Taco 0014
- 1-1/4" & 1-1/2" Flanges (399) Taco 2400-20

Complete Jacket Assembly with

- Fully Removable Jacket Front
- Adjustable Boiler Legs
- Sidewall Vent/Air Termination Kit
- On/Off Power Switch
- Line Voltage Service Receptacle
- Condensate Trap with Drain Tee Assembly
- Propane Conversion Orifice (All except Model 80)

