Introducing The New

Ultra Commercial

Condensing high-efficiency gas boiler

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

- 2 Sizes: 550 & 750 MBH
- 93.9% Thermal Efficiency
- 94% Combustion Efficiency
- CSD -1 Compliant is Standard
  over $450 Value
- Lightweight and Requires Minimal Clearance
- Fast & Easy Out of the Box Installation
- Low NOx Certified
- PVC Venting for Direct Vent and Direct Exhaust
- Compact Design Packaged Boiler
- 20% - 100% Modulation (5:1 Turn Down Ratio)

Featuring

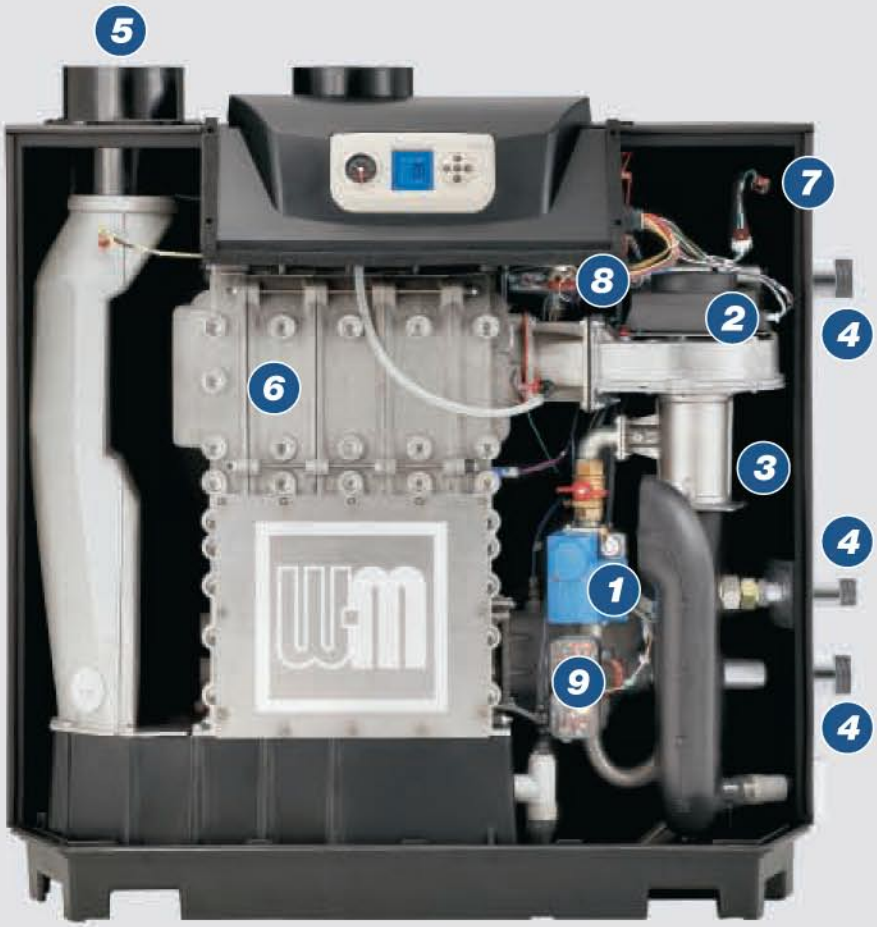
U Control Flexibility

- Includes 11 Pre-Set Applications for Quick System Setup
- Fully Integrated Multiple Boiler Control
- 3 Distinct Temperatures with Individual Outdoor Resets
- Real Text LCD Display

WEIL-McLAIN

Ultra Commercial Components

Designed for Efficiency, built for Reliability.



1. A negative regulated gas valve that precisely delivers gas to the boiler for optimal performance.
2. A variable speed motor that constantly matches combustion output to your heating needs.
3. A venturi mixing body that precisely mixes air and gas providing higher efficiency.
4. Water and gas piping placement are designed for quick and easy connection at the side of the boiler.
5. Venting with PVC or CPVC up to 100 feet. Direct vent or direct exhaust capable.
6. A cast aluminum sectional block heats faster – aluminum provides **10 times better** heat transfer than stainless steel (per British standard EN 1706).
7. Side mounted service outlet on a separate circuit for use with a condensate pump, service equipment or service light.
8. Manual reset low water cut-off.
9. High & low gas pressure switches with manual reset & indicator lights.

CSD-1 Comes Standard

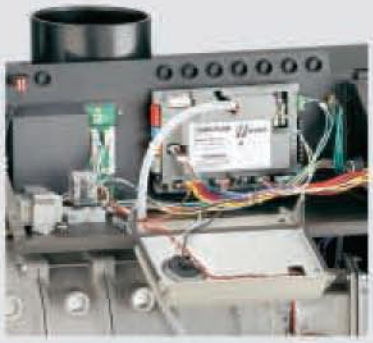
- High & Low Gas Pressure Switches (With Manual Reset & Indicator Light)
- Manual Reset Low Water Cut-Off
- Adjustable Manual Reset High Limit
- UL-353 Certified U-Control
- Factory Test Report Shipped with Boiler

Side jacket handles for easy handling.

High grade stainless steel burner with woven steel fiber mesh that uses pre-mixed air and gas providing for a 20% to 100% modulating firing rate. The burner is designed for long life and silent operation.

The electrical components are easily accessible, pre-wired and color-coded.

Ultra Commercial



The Exclusive U-Control Now comes with CSD-1 Version as Standard. Additional Benefits Include:

- SET UP OPTIONS
  -Simple or as elaborate as you want
- ZONE TYPES
  -Choose predetermined settings or customize
- SYSTEM SENSING
  -Sense boiler, system and outdoor temperatures
- TEMPERATURE MANAGEMENT
  -From 1 to 3 different setpoints for single or multiple zone type management
- MULTIPLE BOILERS
  -Capable of controlling additional boilers or heating appliances
- SERVICE ALERTS
  -Use the standard screen message or customize with contractor information
- UL-353 UL standard for Safety for Limit Controls
  -Certified for CSD-1 compliance
- Able to control any Combination of 4 Circulators

Standard Equipment

Boiler

- Sectional Aluminum Block
- 30 PSI ASME Relief Valve Standard
  Optional 50 & 80 PSI
- Stainless Steel Burner
  with Woven Steel Fiber Mesh
- Direct Spark Ignition
- Variable Speed Blower Assembly
- Venturi Mixing System with Air Silencer
- Negative Pressure Regulated Gas Valve
- 50 VA Transformer
- Dual Scale Temperature & Pressure Gauge
- Outlet Water Temp. Sensor
- Inlet Water Temp. Sensor
- Flue Gas Temp. Sensor
- Outdoor Temp. Sensor
- System Water Temp. Sensors
- Integrated Drain in Vent Adapters

CSD-1 Compliant

- Manual Reset LWCO
- High & Low Gas Pressure Switches (Manual Reset)
- Manual Reset High Limit
- UL 353 Certified U-Control

Complete Jacket Assembly with

- Fully Removable Jacket Front
- On/Off Power Switch
- Line Voltage Service Receptacle
- Condensate Trap with Drain Tee Assembly
- Propane Conversion Orifice
- Vent Screens

Features of:

*U*control 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
- Manual Reset
- Ability to Control any Combination of 4 Circulators
- Outdoor Reset
- Warm Weather Shutdown
- Adjustable Priorities

User friendly display screens.

The back-lit LCD display and simple programming buttons make entering and receiving information easy. It allows users the ability to view current boiler status, check water and outdoor temperatures, review boiler maintenance schedule and view installing contractor contact information.

Ultra Commercial

Dimensions

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

The Ultra is lightweight compared to conventional boilers, requiring minimal clearance and floor space.

TOP

LEFT

FRONT

RIGHT

	Ratings							Data						Dimensions	
Model	Part Number	CSA Input Maximum (MBH)	CSA Input Minimum (MBH)	CSA Gross Output	Net I=B=R	IBR Thermal	IBR Combustion	Vent Size Up To 100'	Vent Material	Combustion Air Up To 100'	Water Volume (Gal)	Minimum Gas Pressure	Approx. Shipping Weight (Lbs)	Supply/Return Tappings	Gas Connection Size
550	383-600-010	550	110	517	445	93.9%	94.7%	6"	PVC	6"	5.5	3.5"	505	2"	1 1/4"
750	383-600-011	750	150	702	605	93.6%	94.0%	"6" or 8"	PVC	"6" or 8"	6.5	3.5"	550	2"	1 1/4"

*Model 750 extends a maximum of 30 feet at 6", 100 feet at 8".