

Ultra

Series 3 CT
WALL MOUNT WATER BOILER



BOILER NUMBER	C.S.A. MAX INPUT B.T.U./HR	C.S.A. MIN INPUT B.T.U./HR	DOE HEATING CAP B.T.U./HR	DOE A.F.U.E. %	VENT SIZE	MINIMUM BOILER LOOP PIPE SIZE	SHP WGT	PART NUMBER
(1) 80 CT	80,000	16,000	71,000	93.5%	2"/3"	1"	199	383-500-720
105 CT	105,000	21,000	94,000	94.0%	2"/3"	1"	207	383-500-722
155 CT	155,000	31,000	139,000	94.0%	3"	1 1/4"	234	383-500-723
230 CT	230,000	46,000	207,000	94.1%	3"/4"	1 1/4"	246	383-500-724
299 CT	299,000	62,000	270,000	92.5%	4"	1 1/2"	297	383-500-725
(2) 310 CT	310,000	62,000	289,000*	92.5%	4"	1 1/2"	297	383-500-727
(2) 399 CT	399,000	80,000	365,000 *	91.7%	4"	1 1/2"	297	383-500-726

- (1) Ultra 80 propane boiler must be ordered as 383-500-721.
 (2) Ultra 310 & 399 ratings are gross output and combustion efficiency

Meets Energy Star Guidelines

DESCRIPTION	PART NUMBER
Ultra Cleaning Tool	591-706-200
Maintenance Kit Ultra 80-105	383-500-605
Maintenance Kit: 155-310	383-500-620
L.W.C.O 24 Volt Kit	511-100-005
Wall Mount Kit (All Sizes)	389-900-180
Easy-Up Manifold 1- 1/4"	383-500-649
Easy-Up Manifold 1- 1/2"	383-500-661
Antifreeze Inhibitor Only - 500 ml CHP	999-999-500
PVC Concentric Vent Kit (4" only)	111-AQU-029
PVC Concentric Vent Kit (3" only)	383-500-350
Ultra Neutralizer Kit (525 MBH)	383-500-631
Inhibitor Sentinel X-100 Tube	592-900-002
Antifreeze, Aluminum Safe Sentinel X-500 4L	592-900-004
Cleaner, Sentinel X-400 Tube	592-900-003
Test Kit Inhibitor	592-900-005

Standard Equipment

- Limited 12 Year Heat Exchanger Warranty
- Ultra Homeowner Protection Plan : -5 Years Parts & Labor Ultra 80-399 (Residential)
- Cast Aluminum Block
- 30 PSI ASME Relief Valve
- Drain Valve
- Stainless Steel Woven Steel Fiber Mesh Burner
- Natural Gas Field Convertible to Propane
- Condensate Drain Trap with Drain Tee Assembly
- Inhibitor
- Gas/Air Ratio Venure with Air Silencer
- Full Modulation Firing with 5:1 Turndown Ratio
- Outlet Water Temperature Sensor
- Flue Gas Temperature Sensor
- Outdoor Air Temperature Sensor
- System Water Temperature Sensors
- Combination Pressure-Temperature Gauge
- Adjustable Boiler Legs
- Vent/Air Termination Plate
- Vent Termination Bird Screen
- On/Off Power Switch
- Line Voltage Service Receptacle

Control Module

- 3.5" LCD Display
- Multiple Boiler Functionality with Alarm Control
- High Limit & Modulating Temp Control
- Low Water Protection
- Outdoor Reset
- Three Boiler Priorities with Multiple Pre-Sets
- Three Pump Control Capability

Boiler Circulator

- 007 TACO with 1" Flanges (80, 105)
- 0014 TACO with 1" and 1 1/4" Flanges (155, 230)
- 0014 TACO with 1 1/4" and 1 1/2" Flanges (299, 310)
- 0013 TACO with 1 1/4" and 1 1/2" Flanges (399)



In the interest of continual improvements in product and performance, Weil-McLain reserves the right to change specifications without notice.

FOR OTHER ADDITIONAL BOILER EQUIPMENT AND CONTROLS - SEE SECTION 5

BOILER MODEL	INPUT MBH	D.O.E. HEATING CAPACITY	Net I=B=R WATER RATINGS MBH	DOE SEASONAL A.F.U.E. %	VENT DIAMETER INCHES	SHP WGT	PART NUMBER
ECO-70	70	65	57	95.2	2"/3"	117	383-800-000
ECO-110	110	101	88	95.0	2"/3"	117	383-800-001
ECO-155	155	143	124	95.1	3	130	383-800-002

Standard Equipment

BOILER
 Stainless Steel Heat Exchanger
 30 PSI ASME Relief Valve
 Drain Valve
 Stainless Steel Burner
 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
 Sentinel X100 Inhibitor and Test Kit

ADDITIONAL BOILER EQUIPMENT

ECO BOILER KITS	PART NUMBER
Composite Circulator UPS15-58RU 3 Speed, 115 Volt	111-GRF-001
1/2" Sweat Fitting for RU Circulator with Check Valve	111-GRF-002
3/4" Sweat Fitting for RU Circulator with Check Valve	111-GRF-003
Concentric Vent Kit PVC 2"	383-700-167
Concentric Vent Kit PVC 3"	383-500-350
L.W.C.O. Kit. 24 Volt Quick Connect	511-100-005
Condensate Neutralizer Kit	383-500-631
Sidewall Vent/Term. PVC	383-500-397
Sidewall Vent/Term. AL294C	382-200-430
Maintenance Kit ECO 70/110	383-700-165
Maintenance Kit ECO 155	383-700-200
ECO Boiler Stand Kit	383-800-101
Additional Extended Warranty: -31st Day to 5th Year Labor -2nd Year to 5th Year Parts. Contact Customer Service for Details or Visit www.weil-mclain.ca	111-WAR-000

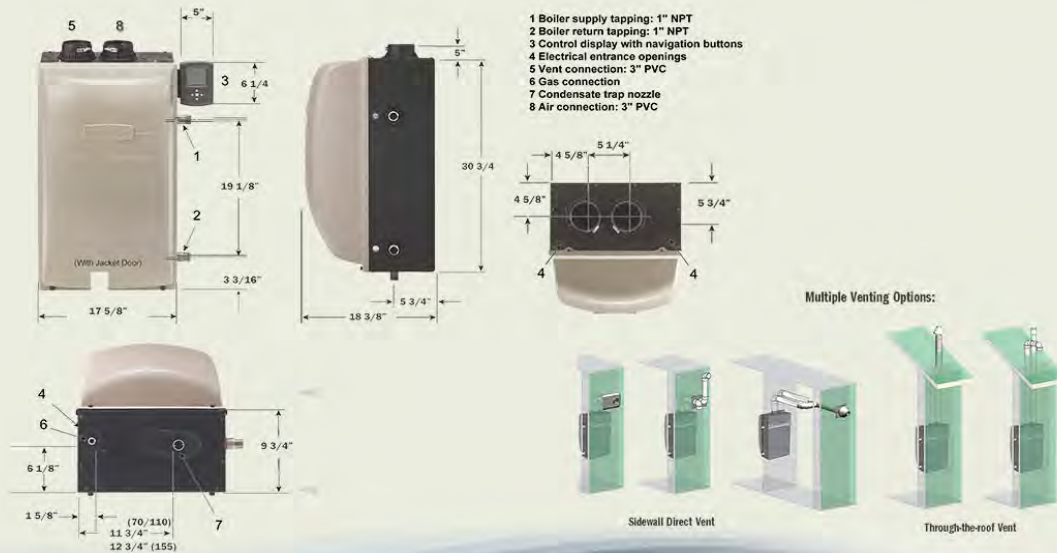


CONTROL MODULE

3.5" LCD Display
 Central Heat Circulator Control
 DHW Circulator Control w/ Priority
 Ignition Control
 High Limit & Modulating Temp. Control
 Outdoor Reset
 Freeze Protection
 Circulator Exercising

COMPLETE JACKET ASSEMBLY WITH

Fully Removable Jacket Front Door
 Mounting Bracket
 Condensate Trap
 Propane Conversion Orifice



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WM97+^{CT}

Wall Mount Gas Boiler



BOILER NUMBER (1)	C.S.A. INPUT B.T.U./HR	DOE HEATING CAPACITY B.T.U./HR	DOE A.F.U.E. %	VENT SIZE	MINIMUM BOILER LOOP PIPE SIZE	SHP WGT	PART NUMBER
WM97+ 70 CT	70,000	65,000	97.3%	2 2/3"	1"	136	383-700-003
WM97+ 110 CT	110,000	101,000	97.0%	2 2/3"	1"	136	383-700-004
WM97+ 155 CT	155,000	143,000	97.2%	3"	1 1/4"	162	383-700-005

(1) For elevations between 2,000 and 4,500 ft. above sea level, rating should be reduced by 10%.

Meets Energy Star Guidelines

ADDITIONAL BOILER EQUIPMENT

WM97+ KITS	PART NUMBER
Concentric Vent Kit PVC 2"	383-700-167
Concentric Vent Kit PVC 3"	383-500-350
Condensate Neutralizer Kit	383-500-631
Maintenance Kit 70/110	383-700-165
Maintenance Kit 155	383-700-200
Aqua Logic Companion Water Heater	633-800-513
Adjustable Floor Stand	383-800-102
Additional Extended Warranty: -31st Day to 5th Year Labor -3rd Year to 5th Year Parts. Contact Customer Service for Details or Visit www.weil-mclain.ca	111-WAR-001



Aqua Logic Companion Water Heater

Standard Equipment

- 30 PSI ASME Relief Valve
- Drain Valve
- Stainless Steel Burner
- Outlet Water Temp Sensor
- Inlet Water Temp Sensor
- Flue Gas Temp Sensor
- Outdoor Temp Sensor
- Built in Primary/Secondary Piping Option
- Built in Expansion Tank
- Indirect-Fired Water Heater Connections
- Low Water Cutoff with Manual Reset and Test Button
- Inhibitor

Control Module

- 3.5" LCD Display
- Three Zone Circulator Control with Optional Domestic Hot Water Priority
- Alarm Control Functionality
- Outdoor Reset

Internal Boiler Circulator *

- 007 TACO with 1" Flanges (70)
- 0015 TACO with 1" Flanges (110)
- 0015 TACO with 1" Rotated Flanges (155)

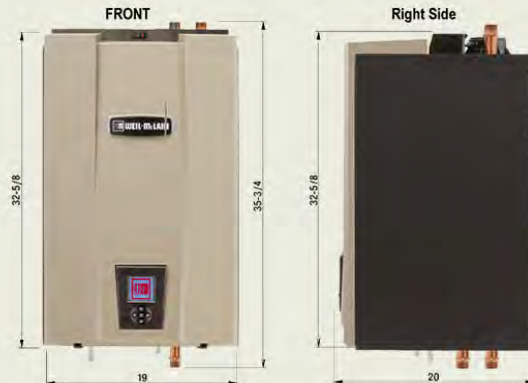
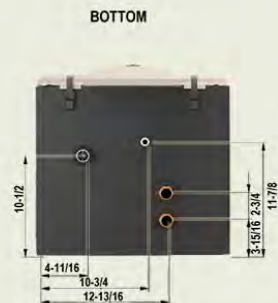
- Mounting Bracket
- Sidewall Vent/Air Termination Kit**
- On/Off Power Switch
- Condensate Trap
- Propane Conversion Orifice

*Circulator supplied with boiler cannot be removed and cannot be used as a zone circulator in multiple zone systems.

**Includes inside and outside plates, vent cap and hardware.



Dimensions Noted are for the WM97+ 70 & 110 Only.



Installation Flexibility with Multiple Venting Options



In the interest of continual improvements in product and performance, Weil-McLain reserves the right to change specifications without notice.

FOR OTHER ADDITIONAL BOILER EQUIPMENT AND CONTROLS - SEE SECTION 5

GV90+

HIGH EFFICIENCY GAS BOILER



BOILER NUMBER (1)	C.S.A. INPUT B.T.U./HR	DOE HEATING CAPACITY B.T.U./HR	DOE A.F.U.E. %	VENT SIZE	MINIMUM BOILER LOOP PIPE SIZE	SHP WGT	PART NUMBER
GV90+ - 3	70,000	65,000	91.9%	3"	1"	313	382-200-610
GV90+ - 4	105,000	97,000	91.2%	3"	1"	353	382-200-611
GV90+ - 5	140,000	130,000	91.4%	3"	1 1/4"	423	382-200-612
GV90+ - 6	175,000	161,000	91.0%	3"	1 1/4"	464	382-200-613

(1) For elevations between 2,000 and 4,500 ft. above sea level, rating should be reduced by 10%.

Boilers may be vented with 3" Stainless Steel or 3" ULCS636 PVC Pipe

Meets Energy Star Guidelines

ADDITIONAL BOILER EQUIPMENT

DESCRIPTION	PART NUMBER
Vent Termination Kit. 3-Inch S.S. AL294C	382-200-430
PVC Concentric Vent Kit - 3 inch	383-500-350
Vent Termination Kit PVC	383-500-397
Adapter - 3 inch AL294C Z-Vent	560-907-723
Condensate Neutralizer Kit	383-500-631
Zone Interface Harness	381-356-585
Outdoor Reset Kit	381-356-586

Standard Equipment

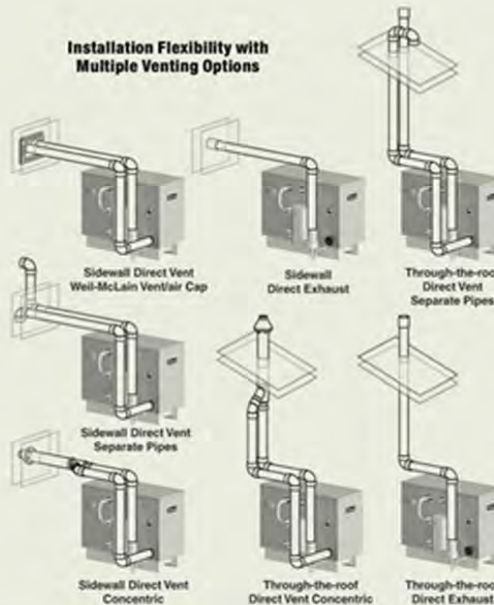
- Factory Tested
- Insulated Extended Steel Jacket
- Cast Iron Sections With Built-In Air Separator
- Stainless Steel Secondary Heat Exchanger With Air Separator
- Steel Base
- Control Module With Indicator Lights
- Blower Assembly with Observation Port
- Gas/Air Manifold Assembly
- Gas/Air Orifice Plate for Natural Gas (separate plate furnished for conversion to propane)
- Stainless Steel Burner Cone and Ring Assembly
- Negative Regulation Gas Valve
- Hot Surface Ignition System
- Air Pressure Switch
- System Circulator*
- Built-in-Bypass Circulator System with Sensor For Temperature Control*
- Condensate Drain Trap
- Sidewall Vent Termination Kit**
- 40VA Transformer
- Electrical Junction Box
- 30 PSI ASME Relief Valve (Boiler sections & Second Heat Exchanger Tested for 50 PSI Working Pressure)
- Water Temperature Limit Switch
- Section Block Temperature Limit Switch
- Combination Pressure-Temperature Gauge
- Drain Valve
- Flue Thermal Fuse
- Water Treatment - Inhibitor & Test Kit

*Circulators supplied with boiler cannot be removed and cannot be used as a zone circulator in multiple boiler systems.

**Includes Inside and Outside Plates, Vent Cap and Hardware.



Installation Flexibility with Multiple Venting Options



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FOR OTHER ADDITIONAL BOILER EQUIPMENT AND CONTROLS - SEE SECTION 5

REFER TO TERMS & CONDITIONS FORM ON PAGE 7-1

ALL TAXES EXTRA

Effective: July 2nd, 2014

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