



WEIL-McLAIN®

www.weil-mclain.com

ECO® HIGH EFFICIENCY CONDENSING BOILER

Water | Natural/Propane Gas | 70-155 MBH
Direct Exhaust/Direct Vent | 95% AFUE

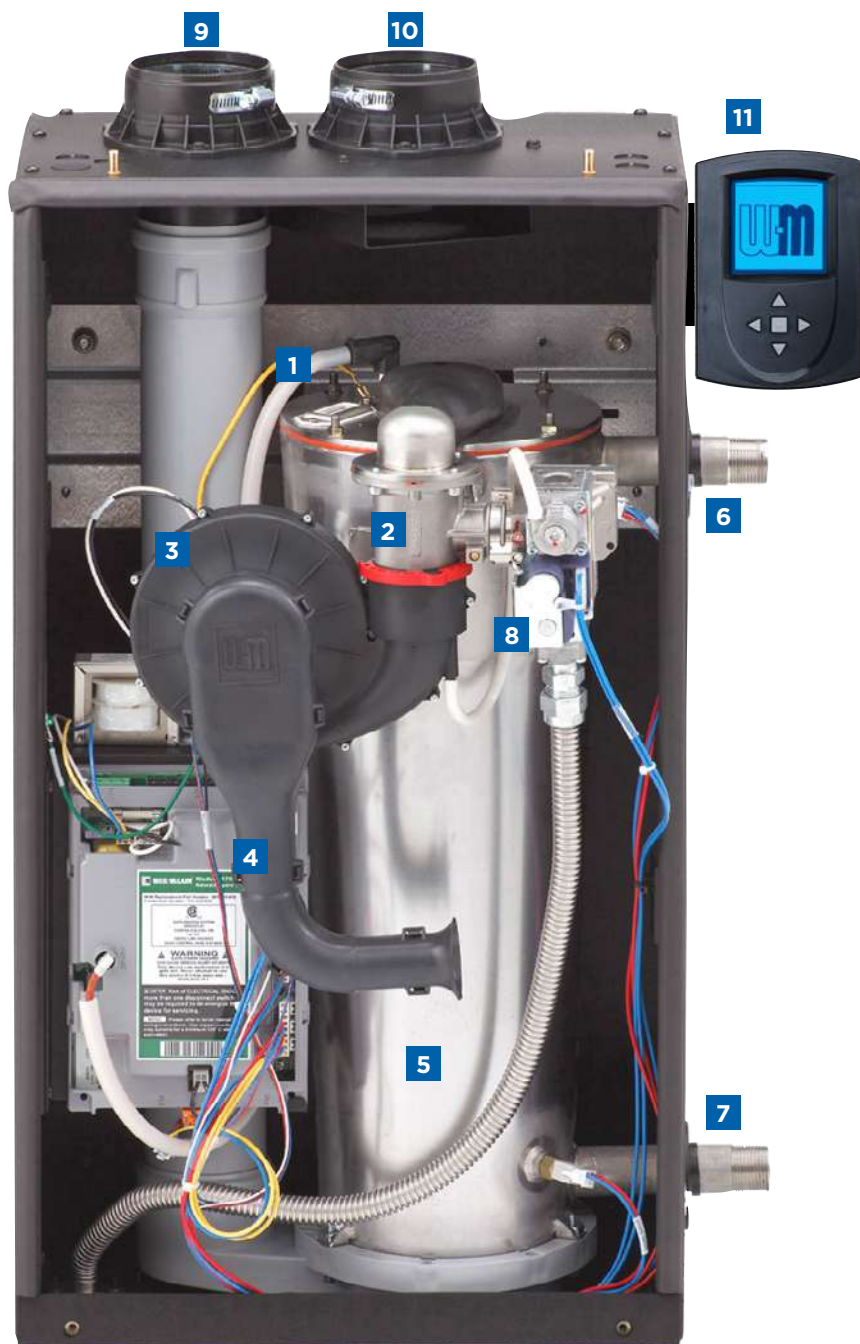


HIGH EFFICIENCY
WALL MOUNT BOILER

ECO

Durable stainless steel fire
tube heat exchanger
Streamlined design
configurable for installation





70 model shown

CONNECTIONS/COMPONENTS:

Designed to optimize operation resulting in significant fuel savings.

1. Ignition Electrode / Flame Sensor
2. Venturi
3. Blower
4. Air Inlet Silencer
5. Stainless Steel Heat Exchanger
6. Boiler Supply Connection
7. Boiler Return Connection
8. Gas Valve with Flex Piping
9. Vent Connection
10. Air Connection
11. LCD Screen
12. Optional Boiler Stand



Heating perfection and long-term protection

- Every boiler is hydrostatically tested to ASME standards and test fired
- Backed by Weil-McLain quality and a warranty that provides peace of mind
- Unrivalled technical and field sales support
- From North America's leading boiler manufacturer with over 135 years of proud history



Durable stainless steel fire tube heat exchanger

- High-grade stainless steel design with low pressure drop
- Dimple tube design achieves high efficiencies
- Corrosion resistant polypropylene condensate collection base

Among the Highest AFUE rated residential boilers

- Exceeds ENERGY STAR® requirements
- At 95% efficiency, eligible for tax credits and rebates*

Optional accessories to match virtually any installation

- Low water cut off (probe style) with test button
- Paintable polypropylene sidewall vent termination
- 2" and 3" concentric vent termination for one penetration through the sidewall or roof
- Condensate neutralizer to help protect environment and home drain line

Easy-to-use control with LCD screen

- Large display screen makes system set up and navigation simple
- Navigate diagnostic information with simple push buttons
- Quick set up for heat and domestic hot water priority
- Display can be mounted on the boiler, or wall (up to 2' away)

Designed for easy maintenance and service of common parts

- Components positioned for fast and easy service of the gas valve, blower, heat exchanger, and control module
- Removable control terminal blocks save time making electrical connections, while eliminating potential field wiring errors
- Water treatment, choose among our cleaner, inhibitor and antifreeze products

DIMENSIONS

- 1 Boiler supply tapping: 1" NPT
- 2 Boiler return tapping: 1" NPT
- 3 Control display with navigation buttons
- 4 Electrical entrance openings
- 5 Vent connection: 3"
- 6 Gas connection
- 7 Condensate trap nozzle
- 8 Air connection: 3"



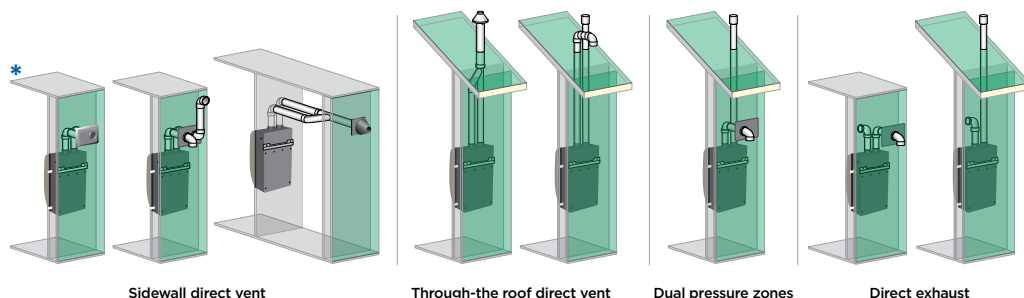
Model	Supply Tapping (in.)	Return Tapping (in.)	Gas Connection Size (in.)	Minimum Recommended Pipe Size (in.)	Approx. Shipping Weight (lbs.)
ECO 70	1	1	1/2	1	117
ECO 110	1	1	1/2	1	117
ECO 155	1 1/4	1 1/4	1/2	1 1/4	130

SPECIFICATIONS

Model ¹	Input MBH		DOE Heating Capacity MBH	Net AHRI Water Ratings MBH	DOE Seasonal Efficiency AFUE%	Vent Diameter (in.)	Vent Material	Boiler Water Content (gal.)
	Max	Min						
ECO 70	70	14	65	57	95.2	2 or 3	PVC, CPVC, PP, SS	2.5
ECO 110	110	22	101	88	95.0	3	PVC, CPVC, PP, SS	2.5
ECO 155	155	28	143	124	95.1	3	PVC, CPVC, PP, SS	3.2

¹Natural gas field convertible to LP as standard equipment

MULTIPLE VENTING OPTIONS



*70 and 155 only

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 temperature and pressure gauge
- Outlet water temperature sensor
- Inlet water temperature sensor
- Flue gas temperature sensor
- Outdoor temperature sensor
- Low NOx SCAQMD compliant

CONTROL MODULE

- 3.5" LCD screen
- Central heat circulator control
- DHW circulator control with priority
- Ignition control
- High limit & modulating temperature control
- Outdoor reset
- Freeze protection
- Circulator exercising

COMPLETE JACKET ASSEMBLY WITH

- Fully removable jacket door
- Mounting bracket
- Condensate trap
- Propane conversion orifice

OPTIONAL EQUIPMENT

- Concentric vent kit
- Condensate neutralizer kit
- Low water cut-off kit
- Sidewall vent/air termination kit
- Boiler stand kit
- Maintenance kits
- Water treatment - inhibitor & test kit

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

