

Ultra

Gas-fired water boilers – Series 3

Featuring  **UControl**[®]
Flexibility



Gas - Fired Water Boilers

Boiler Manual Addendum –

The information in this addendum supersedes information in:

Ultra Boiler Manual - Part Number 550-100-090

WM97+ Boiler Manual – Part Number 550-142-085

Boiler manuals updated to contain this addendum information will have the following part numbers:

Ultra Boiler Manual - Part Number 550-100-055

WM97+ Boiler Manual - Part Number 550-142-120

The Air-conditioning, Heating, and Refrigeration Institute (AHRI) informed Weil-McLain on November 15, 2012 that an error was found in the Department of Energy's (DOE) Annual Fuel Utilization Efficiency (AFUE) calculation for modulating condensing boilers with fuel input rates less than 300,000 Btu/hr. Weil-McLain conducted additional testing on these boilers to certify them to the new requirements of the AFUE procedure. The term “-CT” was added on the boiler models to reflect the AFUE ratings that were established under the new procedure, with the results shown below.

Boiler Model	% AFUE	Factory Setting Low Fire Rate (Btu/hr)	Factory Setting Low Fire Blower Speed (rpm)
Ultra 80-CT	93.5	16,000	1,300
Ultra 105-CT	94.0	21,000	1,300
Ultra 155-CT	94.0	31,000	1,300
Ultra 230-CT	94.1	46,000	1,300
Ultra 299-CT	92.5	62,000	1,400
WM97+ 70-CT	95.2	14,000	1,100
WM97+ 110-CT	95.0	22,000	1,400
WM97+ 155-CT	95.1	28,000	1,300

Boiler Model	% Efficiency*	Factory Setting Low Fire Rate (Btu/hr)	Factory Setting Low Fire Blower Speed (rpm)
Ultra 399-CT	91.7 (combustion)* 91.3 (thermal)*	79,800	1,520

* Units over 300MBH are rated using steady state combustion and thermal efficiencies rather than AFUE.



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