



Commercial Boiler-Burner-Control System

Certified at over **85%**
combustion efficiency



Model 88c



Light Oil, Gas and
Gas-Light Oil-Fired

Ratings (25 sizes)

- 277 - 4,455 MBH
GROSS OUTPUT
- 2.25 - 37.00 GPH OIL



Weil-McLain Commercial Cobalt Boiler System

Presenting Models CS-300 to CS-4500 commercial boiler-burner-control systems for light oil, gas or gas-light oil-firing, available with high-capacity tankless heaters. The **Weil-McLain Cobalt Boiler System** is designed for highly-efficient, trouble-free heating in apartments, schools, churches, offices and other commercial and institutional buildings.



Our **Commercial Cobalt Boiler System** delivers *reliable performance*, *exceptional quality* and *true high-efficiency*. We now have what you need:

Certified at over 85%
combustion efficiency.

A complete boiler system – packaged and delivered!

Presenting the next evolution in Weil-McLain boilers – the *Cobalt Boiler System*. Incorporating the very latest in commercial heating technology, the Cobalt Boiler System is the result of years of successful customized product implementation.

We've listened to our customers! Weil-McLain Canada delivers an entire boiler package that answers any commercial heating need. With cutting-edge and innovative features, the *Cobalt Boiler System* meets all reliability and high-efficiency performance requirements.

In addition, Weil-McLain Canada is committed to being environmentally-friendly, using 95% recycled cast iron material in its Cobalt Boiler Systems.

Why Weil-McLain Canada?

For over 50 years, Weil-McLain has been actively selling and supporting Canada's heating needs, and we've built our name on providing top-quality, high-efficiency technology that our customers can count on. Whether the commercial heating requirements are for a hospital, nursing home, school, church or other commercial facility, Weil-McLain Canada can deliver.

Why a Cobalt Boiler System?

The Cobalt Boiler System puts together proven Reliable Performance, Exceptional Quality and High Efficiency in a complete package that incorporates the latest boiler technology features:

High efficiency

Utilizing the proven design of the Weil-McLain Model 80c and 88c, the commercial boilers are repackaged and improved, resulting in new combustion efficiencies that exceed 85%. They feature a heat exchange surface area that exceeds most competitive 3-pass designs. The new 80c and 88c continue the long-standing performance reputation that has been synonymous with the Weil-McLain name.

100% flow protection

Ensure peace-of-mind with the Cobalt Boiler System's 100% flow protection package. Included with every system sold, the flow protection package allows

for confidence in low-temperature system integration and is backed by an extensive warranty. **When piped according to our installation instructions, Weil-McLain Canada warrants the boiler against thermal shock.**

Burners

The Cobalt Boiler System uses burners that are specifically designed and engineered to match the firing characteristics of the boilers. In order to ensure maximum performance and efficiency, the burners are custom-matched to every system, allowing optimum control and performance of the boiler system.



Model 80c



Enhanced insulation

The Cobalt Boiler System has additional insulation upgrades that equate up to 4" of conventional insulation inside the jacket for increased efficiency and reduced jacket losses. This additional insulation results in performance improvements and operational savings.



System analysis e-tool

To back the performance confidence we have in this system, a complete computerized boiler selection and payback analysis is done. This ensures the system performance is achieved utilizing the correct Cobalt Boiler System.

Optional Feature

Factory assembly

The Cobalt Boiler System is available in either a knocked-down configuration, assembled block only, or completely packaged and assembled. In each case, you are assured of a fully-tested and approved integrated boiler system that will meet your requirements both today and 40 years from now. In addition, because factory packaging and assembly are done in Canada, delivery is faster.

Control panel

The Cobalt Boiler System's PGM-4/M control panel with integrated proprietary controls and BMS tie-in incorporates proven smart-logic control components that can handle from one to four boilers, with the option to add-on as necessary. The control panel's pre-packaged versatility allows it to handle all commercial application needs, and with outdoor reset or setpoint regulation, sensor or external setpoint input, digital readout and selectable operating modes, the PGM-4/M control panels are the industry's best value.

In addition, control panels are micro-processor-controlled with PID logic, allowing constant monitoring and retention of the difference between the setpoint and actual system water temperature. The microprocessor uses this information to determine if stages need to be turned "ON" or "OFF", or stay as is. These advanced capabilities eliminate unnecessary boiler cycling, resulting in a heating system that operates at peak efficiency.



Contact **Weil-McLain Canada** today to speak with a representative about how the Cobalt Boiler System can meet your commercial heating needs.

Cobalt Boiler System Ratings



Equipment

Cobalt Boiler System Number	Boiler Model Number	C.S.A. Burner Input*		C.S.A. Gross Output*	Net Ratings			Chimney or Vent Diameter Size"	C.S.A. Combustion Efficiency*	
		Oil G.P.H.	Gas MBH		MBH	Sq. Ft. Steam	MBH Steam		MBH Water	Oil
CS-300	380c	2.25	325	277	867	208	241	8	87.7	85.1
CS-400	480c	3.20	462	393	1229	295	342	8	87.7	85.1
CS-500	580c	4.15	599	510	1596	383	443	8	87.7	85.1
CS-600	680c	5.20	751	639	1996	479	556	8	87.7	85.1
CS-750	780c	6.10	880	749	2342	562	651	10	87.7	85.1
CS-800	488c	7.00	1010	868	2714	651	755	10	88.6	85.9
CS-900	880c	7.00	1010	860	2687	645	748	10	87.7	85.1
CS-1000	980c	8.00	1155	983	3071	737	855	10	87.7	85.1
CS-1050	588c	9.40	1357	1166	3646	875	1014	10	88.6	85.9
CS-1100	1080c	9.00	1299	1105	3454	829	961	10	87.7	85.1
CS-1200	1180c	10.00	1443	1228	3837	921	1068	10	87.7	85.1
CS-1300	1280c	10.80	1559	1327	4146	995	1154	12	87.7	85.1
CS-1350	688c	11.80	1703	1463	4575	1097	1272	10	88.6	85.9
CS-1600	788c	14.20	2049	1760	5504	1320	1530	12	88.6	85.9
CS-1900	888c	16.60	2396	2058	6436	1544	1790	12	88.6	85.9
CS-2100	988c	18.80	2713	2330	7286	1748	2026	14	88.6	85.9
CS-2400	1088c	21.50	3103	2665	8334	1999	2317	14	88.6	85.9
CS-2600	1188c	23.50	3392	2914	9113	2186	2534	14	88.6	85.9
CS-3000	1288c	26.00	3753	3224	10082	2418	2803	14	88.6	85.9
CS-3200	1388c	28.50	4113	3533	11049	2650	3072	14	88.6	85.9
CS-3500	1488c	31.00	4474	3843	12018	2882	3342	16	88.6	85.9
CS-3700	1588c	33.00	4763	4091	12794	3068	3557	16	88.6	85.9
CS-4000	1688c	35.50	5124	4402	13766	3302	3828	16	88.6	85.9
CS-4200	1788c	38.00	5485	4712	14736	3534	4097	18	88.6	85.9
CS-4500	1888c	40.50	5845	5021	15702	3766	4366	18	88.6	85.9

* Input, output and combustion efficiency are certified to efficiency test procedures specified in ANSI Z21.13.

Standard System Equipment

- Complete boiler
- Integrated flame retention burner
- Control panel
- Flow protection package
- Enhanced insulation upgrades

Standard Boiler Equipment

- Cast iron sections
- Aluminized steel flue collector assembly
- Steel flue collar and breeching damper
- Observation ports on front and rear sections
- Refractory blanket and target wall in combustion area
- Burner mounting plate with refractory
- Side cleanout plates
- Flue brush

Optional Equipment

- Tankless heaters
- Assembled block only, or fully packaged and assembled boiler/burner

Identification Guide

	Model	Medium	Fuel	Tankless Coil	Burner Firing	Assembly
Example:	CS-800	W	G	-	2	B
Cobalt Boiler System # (Based on Gross Output MBH)						
W Water S Steam						
G Natural Gas L Light Oil P Liquid Propane GL Dual Fuel						
- No Tankless Coil T Tankless Coil						
- On/Off 2 Two-Stage M Modulating						
- Knocked-Down B Assembled Block Only P Fully Packaged & Assembled						

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



A complete boiler package that delivers...

Reliable Performance

Exceptional Quality

Certified Efficiencies

We have what you need.



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