

# Indirect-Fired Water Heaters

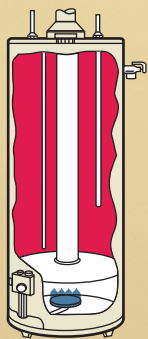


**Premier Series  
Dual Coil™  
Commercial**



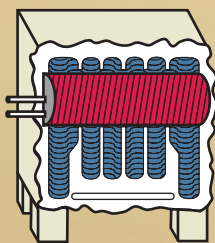
The growing importance of energy efficiency and today's high fuel prices means there's never been a better time to install an AMTROL® BoilerMate® indirect water heater. Widely regarded as the least expensive means of heating water, each BoilerMate includes features that save fuel while delivering endless hot water. In fact, you can cut up to 60% from your hot water fuel bill!

## Here's how traditional water heaters compare:



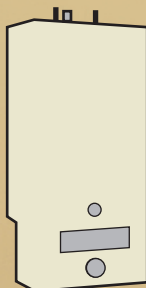
### › Gas and Oil-Fired Storage

Once the old standby, technology has passed these heaters by. With a typical Energy Factor (ef) of about 60%, these heaters waste almost as much fuel as they use to heat water. Even so-called "high efficiency" models only increase efficiency by a small amount while costing considerably more.



### › Tankless Coil in Boiler

Tankless coils use the boiler as their energy source. Unfortunately, they do not have any storage, meaning that the boiler must remain hot 24 hours a day, 365 days a year. This makes tankless coils the least efficient water heating method for most homes. Combine this with poor temperature regulation and limited performance, and you'll understand why these are considered a poor method of generating hot water.



### › Instantaneous Wall-Hung

Often touted as a modern, cost-saving alternative, instantaneous heaters haven't lived up to the hype. In addition to their high purchase price, instantaneous heaters require a separate fuel connection and exhaust venting. Performance is also limited by the heater's ability to keep up with demand. Because they have no reserve storage, running more than one fixture at a time can push some instantaneous heaters to their limit. Finally, in homes with high usage, efficiency is typically no more than 8-14% better than with old-fashioned tank-type heaters, meaning it can take over 20 years to achieve payback.





# BoilerMate® Premier Series

BoilerMate® Premier Series are designed for customers who want the best indirect available. With features like a high-grade stainless steel construction, removable heat exchanger and superior insulation, the Premier Series is perfect for larger homes and high-end installations.

## Features:

### Stainless steel construction

- › High grade 316-L stainless steel resists aggressive water conditions
- › Thick, urethane foam insulation loses less than 1/2°F per hour in standby
- › Rugged, dent-resistant plastic outer jacket

### Larger sizes for bigger homes

- › 60, 80 and 119-gallon storage for multiple fixtures
- › Larger size handles whirlpool baths
- › High-flow domestic water connections with no dip tube provides minimal pressure drop

### Multiple heat exchanger options

- › Double-wall option to meet stringent plumbing codes
- › Removable for cleaning or service
- › Multiple pass design allows high boiler flow with minimal pressure drop



## Models & Specifications

MODEL NUMBER	CAPACITY (gallons)	HEIGHT (inches)	DIAMETER (inches)	SHIPPING WEIGHT (lbs.)	COLD WATER INLET-NPTM	HOT WATER OUTLET-NPTF	BOILER SUPPLY	BOILER RETURN
WHS-60	60	54	26	160	1"	1"	3/4" NPTM	3/4" NPTM
WHS-80	80	66	26	170	1"	1"	3/4" NPTM	3/4" NPTM
WHS-120	119	71	29 3/4	210	1"	1"	3/4" NPTM	3/4" NPTM
WHS-60DW	60	54	26	178	1"	1"	3/4" Union Sweat	3/4" Union Sweat
WHS-80DW	80	66	26	188	1"	1"	3/4" Union Sweat	3/4" Union Sweat

Option Codes: **Z** = Electromechanical thermostat, packaged without circulator; **DW** = Heat exchanger with double-wall tubing, vented to atmosphere IAPMO listed; No code = Smart Control packaged without circulator (Ex: WHS-80)

## Performance

WHS-60		
BOILER OUTPUT (5 gpm input to BoilerMate)	1 FIRST-HOUR RATING (90°F rise)	2 CONTINUOUS FLOW (70°F rise steady state)
BTU/HR	GPH	GPH
40,000	105	69
60,000	133	104
80,000	160	139
100,000	187	173
120,000	214	208
140,000	241	242
WHS-80		
40,000	123	69
60,000	150	104
80,000	177	139
100,000	204	173
120,000	231	208
140,000	258	242
WHS-120		
40,000	158	69
60,000	185	104
80,000	212	139
100,000	239	173
120,000	266	208
140,000	293	242



Features 10-Year Limited Warranty.

# BoilerMate® Commercial

BoilerMate® Commercial indirects take performance to a new level. With recovery rates approaching 500 gallons per hour, there's a commercial BoilerMate to meet any hot water demand.

## Features:

### Stainless steel construction (60, 80, 119-gallon models)

- › High grade 316-L stainless steel resists aggressive water conditions
- › Thick, urethane foam insulation loses less than 1/2° F per hour
- › Rugged, dent-resistant plastic outer jacket
- › High temperature capability for commercial washdown and disinfection

### Compact versions available (41-gallon models)

- › 41-gallons to fit tight mechanical rooms
- › High output exchanger transfers up to 280,000 BTU/HR
- › Narrow 22" diameter makes multi-heater installations easy

### High output for large demands

- › Heat transfer up to 280,000 BTU/HR continuous
- › 60, 80 or 119-gallon storage capacity
- › Large domestic water connections to support high flows
- › 180°F aquastat standard on stainless steel models

### Purpose built commercial heat exchanger

- › Available double-wall option to meet stringent plumbing codes
- › Common flange design for easy changeout and upgrade
- › Removable for cleaning or service
- › Multiple pass design allows high boiler flow with minimal pressure drop

## Models & Specifications

MODEL NUMBER	CAPACITY (gallons)	HEIGHT (inches)	DIAMETER (inches)	SHIPPING WEIGHT (lbs.)	COLD WATER INLET-NPTM	HOT WATER OUTLET-NPTF	BOILER SUPPLY	BOILER RETURN
WH-7C	41	48	22	144	3/4"	3/4"	3/4" NPTM	3/4" NPTM
WH-7C-DW	41	48	22	151	3/4"	3/4"	3/4" Union Sweat	3/4" Union Sweat
WHS-60ZC	60	54	26	168	1"	1"	1" NPTM	1" NPTM
WHS-60-ZCDW	60	54	26	178	1"	1"	1" Union Sweat	1" Union Sweat
WHS-80ZC	80	66	26	178	1"	1"	1" NPTM	1" NPTM
WHS-80-ZCDW	80	66	26	188	1"	1"	1" Union Sweat	1" Union Sweat
WHS-120-ZC	119	71	29 3/4	218	1"	1"	1" NPTM	1" NPTM
WHS-120-ZCDW	119	71	29 3/4	228	1"	1"	1" Union Sweat	1" Union Sweat

## Performance

WH-7C, WH-7CDW			WHS-60ZC, WHS-60ZCDW		
BOILER OUTPUT (7 gpm input to BoilerMate)	1 FIRST-HOUR RATING (90°F rise)	2 CONTINUOUS FLOW (70°F rise steady state)	BOILER OUTPUT (7 gpm input to BoilerMate)	1 FIRST-HOUR RATING (90°F rise)	2 CONTINUOUS FLOW (70°F rise steady state)
BTU/HR	GPH	GPH	BTU/HR	GPH	GPH
100,000	170	172	100,000	185	173
120,000	197	207	120,000	212	208
140,000	223	241	140,000	239	242
160,000	250	275	160,000	266	277
180,000	277	310	180,000	293	312
200,000	304	344	200,000	320	346
220,000	331	379	220,000	346	379
240,000*	357	413	240,000*	372	413
260,000	384	448	260,000	399	448
280,000	411	482	280,000	426	482
WHS-80ZC, WHS-80ZCDW			WHS-120ZC, WHS-80ZCDW		
100,000	202	173	100,000	236	173
120,000	229	208	120,000	263	208
140,000	256	242	140,000	289	242
160,000	283	277	160,000	316	275
180,000	310	312	180,000	343	310
200,000	337	346	200,000	370	344
220,000	363	379	220,000	397	379
240,000*	389	413	240,000*	423	413
260,000	416	448	260,000	450	448
280,000	443	482	280,000	477	482

Maximum BTU transfer with 180°F boiler water: \*CDW Models = 240,000



Features 5-Year Limited Warranty.



# BoilerMate® Dual Coil™

The BoilerMate® Dual Coil™ provides the ultimate in hot water generation. With twin heat exchangers, the Dual Coil has the ability to provide hot water where other indirects fall short. This means fewer heaters in a smaller footprint for your commercial jobs. In fact, just two Dual Coil units can supply hot water to nearly 100 hotel rooms!

## Features:

### Superior hot water output

- › Up to 688 gallons per hour continuous flow
- › 180°F domestic water temperature capability
- › Unique applications like radiant, solar, pool heating

### Efficient, space saving design

- › Each Dual Coil can replace large storage tanks or multiple heaters
- › Urethane foam insulation loses less than 1/2°F per hour in standby
- › Narrow diameter fits through standard doorways and offers a small footprint

### Code compliant design

- › Available double-wall option for use with all standard boiler system fluids
- › ASME-exempt design saves cost and simplifies code inspection process
- › Includes correct T & P safety relief valve
- › Multiple pass coil design allows high boiler flow with minimal pressure drop

### Simplified maintenance

- › Removable heat exchangers facilitate easy cleaning
- › Readily accessible connections for simple hookup and service
- › Uses standard circulator pumps and water heater accessories for easy maintenance

## Models & Specifications

MODEL NUMBER	CAPACITY (gallons)	HEIGHT (inches)	DIAMETER (inches)	SHIPPING WEIGHT (lbs.)	COLD WATER INLET-NPTM	HOT WATER OUTLET-NPTF	BOTTOM COIL CONNECTIONS	TOP COIL CONNECTIONS	TOP COIL TYPE
DC-80	80	66	26	198	3/4"	3/4"	3/4" NPTM	3/4" NPTM	Single Wall
DC-80DW	80	69	26	208	3/4"	3/4"	3/4" Union Sweat	3/4" Union Sweat	Double Wall
DC-120	119	71	29 3/4	238	3/4"	3/4"	3/4" NPTM	3/4" NPTM	Single Wall
DC-120DW	119	74	29 3/4	248	3/4"	3/4"	3/4" Union Sweat	3/4" Union Sweat	Double Wall

## Performance

DC-80 / DC-80DW			DC-120 / DC-120DW		
BOILER OUTPUT BTU/HR	FIRST-HOUR RATING (90°F rise) GALLONS	CONTINUOUS FLOW (70°F rise steady state) GPH	BOILER OUTPUT BTU/HR	FIRST-HOUR RATING (90°F rise) GALLONS	CONTINUOUS FLOW (70°F rise steady state) GPH
Bottom Coil Only	80,000	117	80,000	209	139
	100,000	202	100,000	236	173
	120,000	229	120,000	263	208
	140,000	256	140,000	289	242
	160,000	277	160,000	316	277
Both Coils as Input	180,000	304	180,000	343	312
	200,000	331	200,000	370	346
	240,000	357	240,000	423	413
	280,000	384	280,000	477	482
	320,000	411	320,000	530	551
	360,000*	550	360,000*	584	620
	400,000	603	400,000	637	688

\* Double wall models maximum 360,000 BTUH with both coils.



Features 10-Year Limited Warranty.



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