

# Indirect-Fired Water Heaters



BoilerMate® Classic & Champion Series™

# The First Name in the Industry

AMTROL changed the industry over three decades ago with our patented BoilerMate® indirect-fired water heater technology. Instantly celebrated as the best water heating solution available, the BoilerMate® brand quickly became the solution for customers who want the most hot water for the least money spent. That heritage continues today with the latest lineup from AMTROL.

## Efficiency

Let's face it, these days every water heater manufacturer claims high efficiency. The fact is, an indirect-fired water heater is the best way to save fuel while still delivering real-world hot water performance. Don't sacrifice comfort and high installation cost for misleading efficiency claims. Read the fine print, do your own research, and ask your installer. You'll discover why an AMTROL BoilerMate® gives you the best of both worlds!

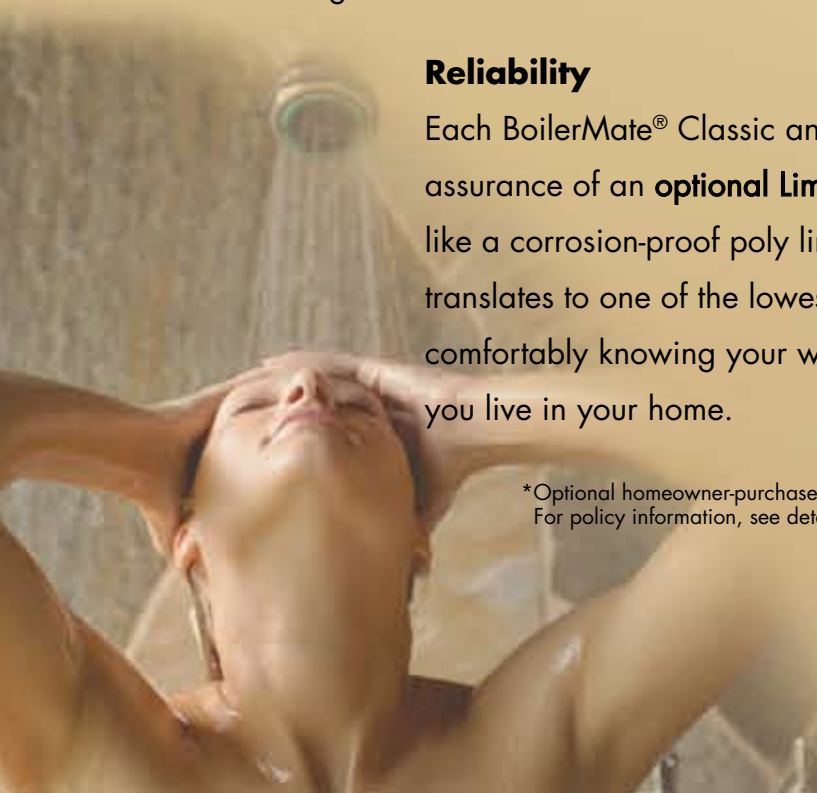
## Performance

Modern homes have hot water demands that often leave other water heaters struggling to keep up. BoilerMate® has the power to sustain high draws and fill large tubs. Is space limited? No problem. One 41-gallon BoilerMate® can supply more hot water per hour than a 120-gallon gas-fired heater. Entertaining guests? Long showers and simultaneous usage are no longer a worry if you've got an AMTROL water heater to keep everyone comfortable.

## Reliability

Each BoilerMate® Classic and Champion Series™ comes with the added assurance of an **optional Limited Lifetime Warranty plan\***. With features like a corrosion-proof poly liner and scale-resistant heat exchanger, this translates to one of the lowest costs of ownership available. You'll rest comfortably knowing your water heater can be protected for as long as you live in your home.

\*Optional homeowner-purchased warranty registration included in carton.  
For policy information, see detailed warranty documentation at [www.amtrol.com](http://www.amtrol.com).



# BoilerMate® Classic Series



The Classic Series is the indirect heater that started it all. With three decades of proven performance and reliability, the Classic Series remains the industry standard.

## Features:

### Durable triple shell construction

- › Corrosion-proof High Density Polyethylene (HDPE) inner liner
- › Energy efficient molded urethane insulation
- › Deep drawn pressure shell offers twice the strength of traditional construction
- › Includes consumer-activated limited lifetime warranty plan

### High efficiency heat exchanger

- › Double-pass design works with standard circulators. No large pumps required.
- › Large surface area for high transfer efficiency; Over 40% greater transfer than most comparable heaters
- › Exchanger removable for cleaning and service
- › Affordable double wall option

### Boiler-matched color options for OEM appearance

- › Blue, Red or Gray
- › Durable, high gloss urethane finish looks good for years

## 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-41	41	48	22	134	3/4"	3/4"	3/4" NPTM	3/4" NPTM
WH-41DW	41	48	22	144	3/4"	3/4"	3/4" Union Sweat	3/4" Union Sweat
WH-7C	41	48	22	144	3/4"	3/4"	3/4" NPTM	3/4" NPTM
WH-7CDW	41	48	22	151	3/4"	3/4"	3/4" Union Sweat	3/4" Union Sweat

Option Codes: **Z** = Electromechanical thermostat; **DW** = Heat exchanger with double-wall tubing, vented to atmosphere IAPMO listed; **L** = Smart Control; **C** = Commercial Heat Exchanger



WH-41Z

## Performance

WH-41 SERIES		
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	89	69
60,000	116	104
80,000	143	139
100,000	170	173
120,000	197	208
140,000	224	242
WH-7C, WH-7CDW SERIES		
100,000	170	172
120,000	197	207
140,000	223	241
160,000	250	275
180,000	277	310
200,000	304	344
220,000	331	379
*240,000	357	413
260,000	384	448
280,000	411	482

\*Maximum BTU transfer with 180°F boiler water

\*DW Models = 240,000

# Champion Series™

Designed for today's market, the Champion Series BoilerMate® is the latest addition to AMTROL's extensive lineup. With an efficient heat exchanger, simplified connections and clean design, the Champion Series is the best value in the market.

## Features:

### Proven tank construction

- › Corrosion-proof Poly liner
- › Energy efficient insulation
- › Includes consumer-activated limited lifetime warranty plan

### Efficient coil design

- › Available in top or bottom mounted configuration (CH-41 only)
- › Simplified plumbing connections
- › Reliable mechanical aquastat with dry well

### Boiler-matched color options for OEM appearance

- › Blue, Red or Gray
- › High gloss finish



## Model Specifications

MODEL NUMBER	CAPACITY (gallons)	HEIGHT (inches)	DIAMETER (inches)	SHIPPING WEIGHT (lbs.)	COLD WATER INLET-NPTM	HOT WATER OUTLET-NPTF	BOILER SUPPLY AND RETURN	CONNECTION LOCATION
CH-41Z	41	48	22	124	3/4"	3/4"	3/4" NPTM	TOP
CH-41BZ	41	48	22	124	3/4"	3/4"	3/4" NPTM	BOTTOM
CH-80Z	80	49	26	180	3/4"	3/4"	3/4" NPTM	TOP

Option Codes: **Z** = Electromechanical thermostat; **B** = Bottom-mount Coil



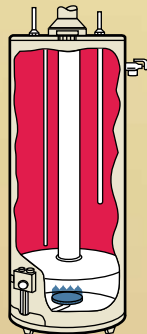
## Performance

CH-41 SERIES		
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	89	69
60,000	116	104
80,000	143	139
100,000	170	173
CH-80 SERIES		
40,000	120	69
60,000	147	104
80,000	174	139
100,000	201	173

# The Best in Comfort & Efficiency

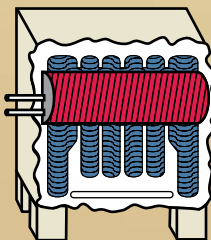
The growing importance of energy efficiency and today's high fuel prices means there's never been a better time to install an AMTROL® BoilerMate® indirect water heater. Widely regarded as the least expensive means of heating water, each BoilerMate® includes features that save fuel while delivering endless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

## Here's how traditional water heaters compare:



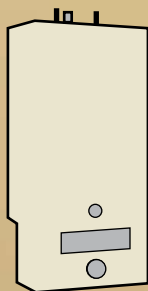
### › Gas and Oil-Fired Storage

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 an obsolete 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.



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