

# HYDROMAX

## Hot Water Makers®



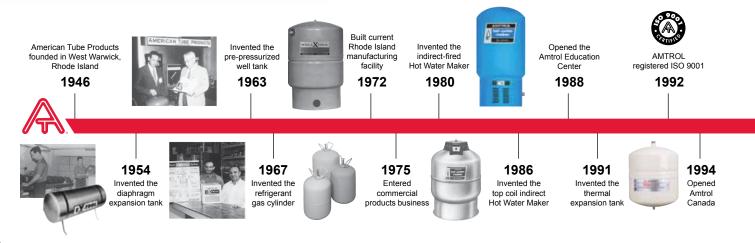
Efficiency at its Best<sup>™</sup>



# HYDROMAX

Amtrol's invention of the indirect-fired water heater, over 30 years ago, represented an innovative solution to providing fast, efficient and reliable hot water. In the years since, Amtrol has been dedicated to the continuous improvement of Hot Water Maker<sup>®</sup> performance and longevity. HydroMax<sup>™</sup>, with its unique features and appliance-like appearance, is the next generation of Amtrol Hot Water Makers. Made in the USA at our ISO9001:2008 registered facilities, HydroMax is Hydronic Efficiency to the Max<sup>™</sup>!





# **A Change for the Better.**



#### Appliance-Like Appearance

Finally, an indirect-fired water heater that looks as good as the fixtures it supplies. HydroMax<sup>™</sup> is a revolution in modern design and technology.

#### Easy to Install and Operate

Every aspect of HydroMax is designed to simplify installation and improve user satisfaction.

#### **Energy Efficiency at its Best**

HydroMax is engineered to save energy without sacrificing comfort. Intelligent control technology and a unique tank design work together to provide the best of both worlds.

#### **Reliable - No Call Backs**

Amtrol believes that an indirect water heater is an integral part of a home's heating system. HydroMax incorporates modern materials and proprietary design features to ensure years of trouble-free service.





# HYDROMAX

#### **Copper Rough-In Piping**

No threaded fittings required.Factory installed Type M copper.

#### **Aquastat Option**

Fast-acting dial control.
8 foot universal 10K Ohm temp sensor integrates boiler controls.

#### **Triple-Shell Construction**

#### **Deep Drawn Steel**

• Offers twice the strength of traditional construction.

• Tuf-Kote<sup>™</sup> HG finish withstands damp and harsh environments.

#### Urethane Insulation

 Reaction Injection Molded (RIM) to eliminate gaps and voids.

 Form-fitting clamshell design minimizes heat loss.

#### **Bi-Modal HDPE Poly Bottle**

 Corrosion-proof material is impervious to chlorides, scale and aggressive water.

 High Density Polyethylene (HDPE) bottle for clean, fresh water.

> Advanced high-temp polymer rated to 180°F.

#### **Pre-Installed Drain Valve**

Bottom mount completely empties tank.Sediment trap captures and flushes debris.

#### **Flexible Warranty Protection Plan**

- 7 Year Warranty with Limited Lifetime option.
- Consumer upgrade kit included in every carton.

## Hydronic Efficiency To The Max<sup>™</sup>.

#### Ener-G-NET<sup>®</sup> Digital Contr

Instantaneous Indirect Technology™

#### **Full Access Housing**

- Enclosed piping for safety and appearance.
- Two piece snap-fit design for easy access.

#### **Integrated Heat Trap**

- Keeps stored water in the tank.
- Patented soft-seat design.



#### **Hi-Delta Heat Exchanger**

- Removable for cleaning without draining tank.
- Optimal coil spacing for superior performance.
- Energy efficient and scale resistant.

#### Turbulator<sup>™</sup> Inlet Distributor

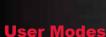
- Agitates water to reduce sediment buildup.
- High velocity spray action cleans coil to maintain peak performance.

#### T & P Blowdown Tube

- Pre-bent tube is ready to install.
- Pre-cut to proper length to meet plumbing codes.

#### DuraBase<sup>™</sup> Composite Stand

- Rugged material withstands rough handling.
- Place HydroMax directly on floor to eliminate need for cement blocks.
- Engineered for strength; tested to withstand over 2,500 lbs.



#### er Modes

AMTRO

#### Standard



- Traditional operating mode.
- Provides maximum hot water availability.

#### Efficiency



- Reduces boiler cycling during idle periods.
- Senses demand to deliver hot water when it's needed.

#### Vacatio



- Standby setting for extended periods of inactivity.
- One-touch restores normal operation.

#### **Built-in Diagnostics**

Error codes quickly identify potential problems and provide an audible alert before damage occurs.

*Er1*: Sensor Error *Er2*: Overheating

*Er3*: Slow Heating *Er4*: Water Alarm

#### **Installer Settings**

#### Temperature



• Accurate within 1°F.

#### Differential



## • Set as narrow as 5°F for constant temperature.



• Captures waste boiler heat for added savings.



• Maximizes hot water availability.

#### Heat Transfer Display

• Displays real-time BTU transfer.



## **Specifications & Sizing**



Model Number	Capacity (gallons)	Height (inches)	Diameter (inches)	Shipping Weight (Ibs.)	Control Type	Domestic Water	Boiler Supply/Return
HM-41L	41	48	22	124	Ener-G-Net	3/4" Sweat	3/4" Sweat
HM-41Z	41	48	22	124	Mechanical	3/4" Sweat	3/4" Sweat
HM-80L	80	49	26	180	Ener-G-Net	3/4" Sweat	3/4" Sweat
HM-80Z	80	49	26	180	Mechanical	3/4" Sweat	3/4" Sweat

**Models & Specifications** 

#### **Residential Sizing**

Boiler	Bathrooms						
<b>BTU Rating</b>	<b>1 - 1</b> <sup>1</sup> / <sub>2</sub>	2 - 3	4 - 5	6+			
50,000				Commercial			
60,000				Hot Water Make			
70,000							
80,000				30			
90,000							
100,000		11 1					
110,000							
120,000							
130,000							
140,000							

Consult Amtrol for heavy demands; including large whirlpool tubs, multi-head showers and other dump load applications.



#### **Hot Water Performance**

	HM-41	Models	HM-80 Models		
Boiler Net Output (BTU per Hour)	First Hour Rating (90°F Rise)	Continuous Flow (70°F Rise)	First Hour Rating (90°F Rise)	Continuous Flow (70°F Rise)	
40,000	89	69	120	69	
60,000	116	104	147	104	
80,000	149	139	174	139	
100,000	170	173	201	173	
120,000	197	208	228	208	
140,000	224	242	255	242	



## **The Best Solution.**

There are many choices for heating water but only one provides the best combination of performance and efficiency: an Indirect-Fired Water Heater. Using the home's existing boiler energy minimizes fuel use and maximizes hot water output. See how HydroMax<sup>™</sup> surpasses all other water heater technologies in comfort and fuel savings.

#### **Residential Water Heater Comparison**

#### HydroMax

Utilizes existing boiler energy to heat water.



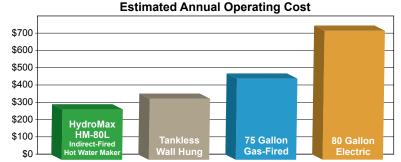
#### Best hot water output.

- Highest overall efficiency.
- Insulated storage for peak demands.
- Installs almost anywhere. No flame, flue or fuel lines.
- Non-metallic water reservoir for long life and cleaner water.
- Instantaneous Indirect Technology<sup>™</sup> reduces unwanted cycling and provides endless hot water.
- Removable heat exchanger can be easily cleaned.

# Hot Water Availability (Gallons in First Hour)

100 50 HydroMax 50 HM-80L Indirect-Fired Hot Water Maker Wall Hung 75 Gallon Gas-Fired 80 Gallon Electric

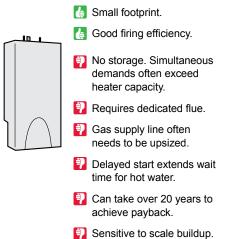
Data based on published manufacturer ratings for high-output models. Heat Input: Indirect 140,000 BTUH; Tankless 199,000 BTUH; Gas 70,000 BTUH; Electric 5500W



Costs based on US Department of Energy (DOE) guidelines for a four person household. Energy Factor (EF/CAE): Boiler/Indirect .85, Tankless .82, Gas .59, Electric .92

#### **Tankless Wall-Hung**

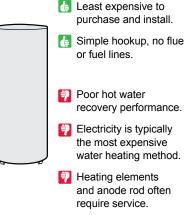
Water is heated as it flows through unit.



# Conventional Gas-Fired Convention Natural Gas or LP flame heats stored water. Electric element Image: Store in the store in

#### **Conventional Electric**

Electric elements heat stored water.





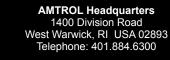
# Amtrol Advantage™

Whenever you choose Amtrol, you're getting more than just a great product. The Amtrol Advantage combines the Industry's best brands with world class customer service and valuable installer initiatives.

- Amtrol Rewards<sup>™</sup> Installer Points Program
  - Tanks on Tour<sup>™</sup> Mobile Training Vehicle
    - Amtrol Racing Team









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