

- Seamless Hydrastone-lined Tank
- Very Low Standby Heat Loss
- Easy Installation & Servicing
- 5 Sizes Available 27, 35, 50, 70 & 119
- Proprietary TPI Thermostat Control Included
- Optional Lifetime Warranty Available



A great option for use with any Burnham brand boiler for abundant domestic hot water.



# Aliance SL Hydrastone-lined Indirect Water Heater

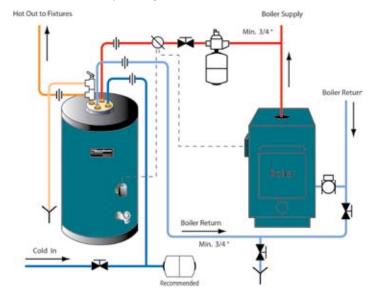


## Burnham Alliance™SL Indirect-fired Water Heater

There can be extensive demands for domestic (potable) hot water in both residential and commercial applications. Hydrastone-lined Alliance SL indirect-fired water heaters meet the needs for domestic hot water with a unique design and uncompromised reliability.

#### **How an Indirect Water Heater Works**

Indirect water heaters utilize the power and large heating capacity of a boiler to provide year-round hot water at low operating costs.



Alliance SL water heaters have a higher recovery rate than typical direct fired or electrically operated water heaters because they utilize the large output from the boiler as the heat source.

### **A Diverse Offering**

To meet the needs of virtually any residential or commercial application Alliance SL water heaters are available in five sizes: 27, 35, 50, 70 and 119. Whether it is a three-story house or a 30-story apartment building, Burnham has the right size Alliance SL for the job.



#### **Easy Installation**

The coil comes installed and can be easily turned to line up with the boiler and domestic water piping on replacement installations. (The AL119SL coil is shipped separately).

#### **Easy Service**

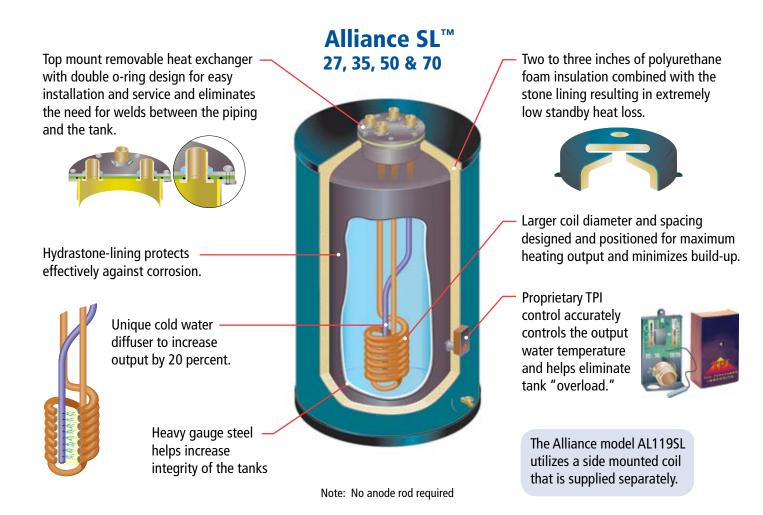
All connections are located on the top of the tank and all of the controls are located on the front of the tank for easy service and installation. The heat exchanger can be removed without having to drain the tank. (*The AL119SL utilizes a side mounted coil*).

#### Unique10/2/1 Warranty

A 10-year full tank replacement, two-year labor and one year on parts, which include the coil, come with every Alliance SL. An optional lifetime warranty is also available.



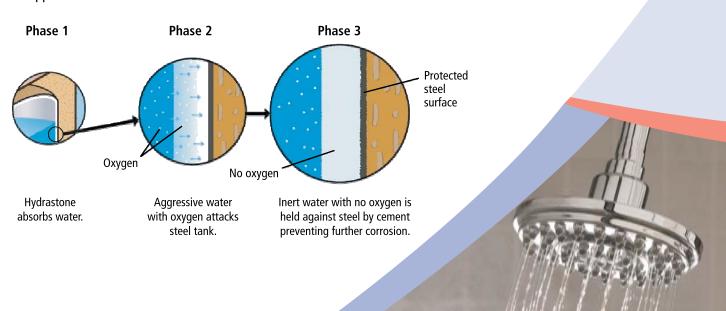
The hydrastone-lining provides a protective barrier between the domestic hot water and the steel tank. This rugged tank desing works well in a wide range of water conditions and operating temperatures.



## **Hydrastone-lining**

The concept of stone-lined water tanks is not a new one, and has been proving successful against corrosion for ages. Many of the stone-lined tanks are installed are 25-30 years old. In fact, the New England area has been using stone-lined tanks for years due to their water supply being very acidic and has been devastating to glass lined tanks.

What makes the Alliance SL unique is the Hydrastone-lining. This one half inch lining protects the steel tank from the corrosive action of water. When the water first enters the tank, it is absorbed into the Hydrastone-lining permanently. This water loses its oxygen and becomes inert, non-corrosive water which then acts as a protective wall between the hot water and steel tank. This unique process and design makes Alliance SL water heaters a great choice for domestic hot water applications.



## **Ratings**





Model Number	Maximum First Hour Rating at 135°F (gal./hr.)	Continuous Draw Rating at 135°F (gal./hr.)	Standby Loss (°F/hr.)	Minimum Boiler Output (MBtu/hr.)	Boiler Water Flow Rate (gal./min.)	Pressure Drop through Coil (ft. w.c.)
AL27SL	192	162	0.97	99	6	9.0
AL35SL	200	162	0.72	99	6	9.0
AL50SL	225	171	0.56	110	6	9.5
AL70SL	294	217	0.45	120	6	10.0
AL119SL*	339	235	0.39	149	14	17.0

- 1. First flow ratings are based on 58°F inlet water, 135°F hot water and 180°F boiler supply water.
- 2. The above ratings were obtained at the boiler outputs (in MBtu/hr.) shown in column (4) at the boiler water flow rates (in GPM) shown in column (5). Other results will be obtained under different conditions.
- \* Note: The AL119SL utilizes a side mounted coil that is shipped separately.

## **Specifications**

Model Number	Storage Capacity (gal.)	Height Dim. 'A' (in.)	Diameter Dim. 'C' (in.)	Maximum Allowable Working Pressure	Approximate Shipping Weight (lbs.)
AL27SL	27	39-1/4	20	150 PSI	170
AL35SL	35	39-1/4	22-3/4	150 PSI	198
AL50SL	50	40-3/4	26	150 PSI	248
AL70SL	70	45-3/4	28	150 PSI	300
AL119SL	119	67-3/4	28	150 PSI	480

