



Alliance SL Four residential sizes: 27, 35, 50, & 70 gal. plus NEW 70 gal. commercial

> NEW Alliance LT Three residential sizes: 30, 55, & 80 gal. plus 80 & 119 gal. commercial

Alliance™ LT & SL

Indirect Water Heaters

Two long-life, corrosion resistant tanks, featuring NEW thermoplastic (LT) or traditional hydrastone (SL) lining

- Impervious to water quality variations
- Minimal maintenance required
- No anode rod required
- Advanced TPI thermostat control
- 10-year residential warranty, <u>optional lifetime warranty available!</u>

Easy, low cost installation

- Top connections, flexible alignment
- Bolted topside coil access no tank draining
- Alliance LT offers lower weight, ease of transport

Alliance[™]Indirect Water Heaters



A Lifetime of Abundant Domestic Hot Water

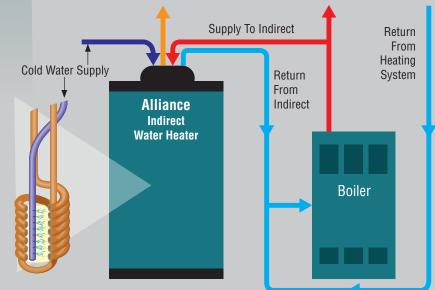
There can be extensive demands for domestic (potable) hot water in both residential and commercial applications. Alliance LT and SL indirect-fired water heaters meet the need for domestic hot water with unique designs and uncompromising reliability.

Indirect Water Heaters vs. Conventional Direct-Fired Water Heaters

All "tank" water heaters store hot water to be used for household needs. A conventional direct-fired tank uses a 34,000 BTU heat source. By comparison, a similar indirect tank uses over 100,000 BTUs of boiler power! With its vastly greater heating capacity, an indirect water heater can actually create hot water faster than it leaves the tank. Your supply of hot water is <u>virtually limitless</u>!

Hot Water Supply to Home

Supply To Heating System



kinds of tank lining. Alliance is available as Thermoplastic (LT) or Hydrastone Lined (SL). Both have distinct advantages over other types of tank lining:

Indirect water heaters come with several

Cold domestic water entering the tank is

heated as it is diffused across the surface

heating coil contains hot water circulated by

the boiler. An external control monitors tank

water temperature for comfort and efficiency.

of a uniquely designed heating coil. This

Alliance LT (thermoplastic) & Alliance SL (hydrastone)

✓ Seamless construction

How it Works

Not Created Equal

- ✓ No anode rod/replacement needed
- ✓ Minimal maintenance
- ✓ Withstands all water conditions
- ✓ Tolerates high temp & pressure

Glass-Lined Tanks

- Defects in glaze can expose tank to premature failure
- Sacrificial anode rod required
- Regular maintenance required
- Sensitive to high temps

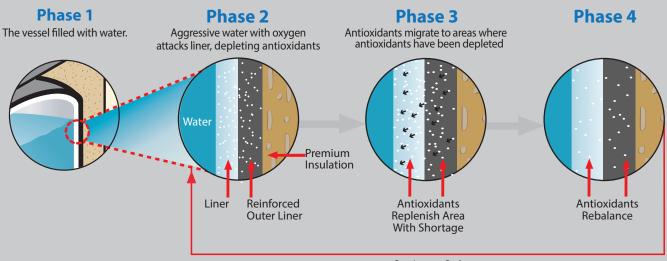
Stainless Steel-Lined Tanks

- Sensitivity to chlorides in domestic water can lead to shortened lifespan in some areas
- Construction welds become structural weak points on nonpassivated tanks

The Science of Protection

Thermoplastic Lining (Alliance LT)

The greatest enemies of any water heater are corrosion and rust. The best defense against those enemies is to avoid tank materials that can rust or corrode. By utilizing a proprietary double-bonded thermoplastic tank liner, the Alliance LT can handle even the most aggressive water conditions by continuously replenishing and rebalancing antioxidant levels throughout the storage vessel. This means that the tank won't rust, and the thermoplasic construction will keep the tank performing over its long service life.

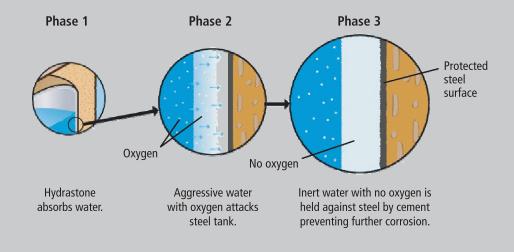


Continuous Cycle

Hydrastone Lining (Alliance SL)

The concept of stone-lined water tanks is not a new one, and has been successful against corrosion for ages. In New England, a region prone to highly acidic water conditions, stone lined tanks are the norm. Actually, It's not uncommon to find one in service for 30+ years.

What makes the Alliance SL unique is the Hydrastonelining itself. This 1/2" tank liner, comprised of a proprietary material similar to cement, protects the outer steel of the tank vessel from the corrosive action of water. When water initially enters the tank, it is absorbed into the Hydrastonelining 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.



Alliance Indirects: Technical Information

AHR CERTIFIED®

Alliance LT											
		First				Minimim Heat		Physical Specifications			
Model	Storage (gal.)	Hour Ratings ¹ (gal./hr.)	Continuous Draw (gai./hr.)	Standby Loss (°F/hr)	Minimum Heat Source (BTU/hr)	Source Flow Rate (GPM)	Heat Source Friction Loss (ft./w.c.)	Height (in.)	Diameter (in.)	Shipping Weight (Ibs.)	
AL30LT	30	199	177	0.8	115,000	8	18.7	40.5	22.75	70	
AL55LT	55	217	177	0.6	115,000	8	18.7	41	28	95	
AL80LT	80	249	183	0.5	114,000	8	20.0	53.5	28	125	
AL80CLT*	80	381	315	0.6	199,000	14	16.0	53.5	28	125	
AL119CLT*	119	477	381	0.5	244,000	14	20.0	74	28	125	

- * Commercial model
- 1. First Hour Rating is the sum of the First Draw and Continous Draw Ratings.

Ratings based on 77°F DHW temperature rise (135°F outlet Temperature) and 180°F boiler supply temperature. The ratings were obtained at the heat source (boiler), output rates and heat source flow rates shown. Other results will be obtained under different conditions.

Alliance LT Standard Features:

- Thermoplastic seamless tank construction
- 1" (nominal) premium insulation
- Fiberglass outer shell
- Unique cold water diffuser
- TPI Thermostat Control module
- 3/4" MNPT cold water inlet connection*
- 3/4" FNPT hot water outlet connection*
- 3/4" MNPT boiler supply/return connections**
- 3/4" FNPT temperature & pressure relief valve
- Removable top mounted access plate with stainless steel flange reinforcements
- 10-year warranty, lifetime warranty optional (residential models only)
 - * 1-1/2" MNPT for commercial models
 - ** 1" MNPT for commercial models

AHR CERTIFIED®

Alliance SL											
		First				Minimim Heat		Physical Specifications			
Model	Storage (gal.)	Hour Ratings ¹ (gal./hr.)	Continuous Draw (gal./hr.)	Standby Loss (°F/hr)	Minimum Heat Source (BTU/hr)	Source Flow Rate (GPM)	Heat Source Friction Loss (ft./w.c.)	Height (in.)	Diameter (in.)	Shipping Weight (Ibs.)	
AL27SL	26	192	170	1.0	106,000	8	18.0	39.25	20	172	
AL35SL	35	200	170	0.7	106,000	8	18.0	39.25	22.75	185	
AL50SL	50	225	180	0.6	117,000	8	19.0	40.75	26	238	
AL70SL	69	294	230	0.5	128,000	8	25.1	45.75	28	290	
AL70CSL*	69	365	305	0.6	178,000	14	20.0	45.75	28	290	

- * Commercial model
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Alliance SL Standard Features:

- Hydrastone seamless tank liner
- Steel tank vessel
- 1" (nominal) premium insulation
- · Fiberglass outer shell
- Unique cold water diffuser
- TPI Thermostat Control module

* 1-1/2" MNPT for commercial models

- 3/4" MNPT cold water inlet connection*
- 3/4" FNPT hot water outlet connection*
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- 3/4" FNPT temperature & pressure relief valve
- Removable top mounted access plate with stainless steel flange reinforcements
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