

# HIGHLANDER



## Gas Fired, Fan-Induced Draft, Cast Iron Water Boiler

*No Chimney Required!*

- Direct vent, sealed combustion using outdoor air OR power vent using indoor combustion air
- Enhanced design for greater value and ease of installation
- 85% AFUE
- Premium control set
  - Hydrostat 3200, pre-installed LWCO
  - Resideo S8670 ignition
- Separate factory builds for gas & LP
- Reliable, American-made cast iron heat exchanger
- Stainless steel burners
- Clean appearance
  - Controls & components concealed in vestibule
- Taco®007e circulator
- 5 sizes available, 70-210 MBH
- Lifetime limited warranty

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BOILERS

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## Standard Equipment

- Cast iron section assembly with metal push nipples
- Direct vent installation kit (room air setup also acceptable)
- Insulated powder coated steel jacket
- Heavy gauge 1" base insulation
- Hydrostat® 3200 three-function hydronic control w/digital display
  - Primary circulator control
  - LWCO, auto or manual reset
  - Thermal targeting or optional ODR
  - Pre-purge latent heat circulation
- Step-opening redundant gas valve
- Spark ignition with continuous retry
- Stainless steel precision burners
- Stainless steel flue gas baffles
- User-friendly wiring with 120V J-box
- ECM Circulator – Taco®007e
- Boiler drain valve
- Cast iron supply manifold with safety relief valve tapping
- ASME safety relief valve
- Temperature pressure gauge
- Air pressure switch

## Optional Equipment

- Altitude (2,000' - 10,000') conversion kit P/N: 110953-01

## Ratings & Models

Model	Fuel	Input <sup>1</sup> (MBH)	DOE Heating Capacity (MBH)	Net AHRI Rating Water <sup>1</sup> (MBH)	AFUE %
HLR-3-070N	Nat. Gas	70	60	52	85.0
HLR-3-063P	LP	63	54	47	85.0
HLR-4-105N	Nat. Gas	105	90	78	85.0
HLR-4-095P	LP	94.5	81	70	85.0
HLR-5-140N	Nat. Gas	140	120	104	85.0
HLR-5-126P	LP	126	108	94	85.0
HLR-6-175N	Nat. Gas	175	150	130	85.0
HLR-6-158P	LP	157.5	135	117	85.0
HLR-7-210N	Nat Gas	210	179	156	85.0
HLR-7-189P	LP	189	161	140	85.0

Maximum Allowable Working Pressure 50 PSI. Boiler shipped from factory with a 30 PSI safety relief valve.

- (1) Input ratings can be used for elevations up to 2000 ft. above sea level. Refer to Appendix B of Operating and Service Instructions for elevations 2000 ft. and higher.
- (2) Net AHRI Water Ratings shown are based on a piping and pickup allowance of 1.15. Consult manufacturer before selecting boiler for installations having unusual piping and pickup requirements, such as intermittent operation, extensive piping systems, etc.

**Horizontal or vertical AL29-4C® stainless steel is required to vent this boiler.**

## Dimensions & Specifications

Model	"A" (In.)	"B" (In.)	Connections (inches)				Water Content (gal.)	Approx Shipping Weight (lbs.)
			Supply	Return	Gas Valve (NPT)	Vent		
HLR-3-70/63-N/P	12-3/4	2-3/4	1-1/4	1-1/4	1/2	3	2	260
HLR-4-105/95-N/P	15-1/2	4	1-1/4	1-1/4	1/2	3	3	310
HLR-5-140/126-N/P	18-1/2	5-1/2	1-1/4	1-1/4	1/2	3	4	360
HLR-6-175/158-N/P	21-1/2	7	1-1/4	1-1/4	1/2	3	5	415
HLR-7-210/189-N/P	24-3/4	8-1/2	1-1/4	1-1/4	3/4	3	6	470

