





Stackable cabinets allow two Alpine boilers to fit the footprint of one. This feature is standard on every Alpine. When stacked, 1000 MBH requires approximately six square feet!

Peak Performance for Hydronic and Radiant Heating

Introducing the Alpine from Burnham, a condensing boiler with efficiency ratings of 95%. The Alpine utilizes a stainless steel heat exchanger, designed to extract maximum heat from the combustion process, along with a control system that is designed to enhance boiler efficiency as well as system efficiency. With 7 different models ranging in size from 80,000 BTUs – 500,000 BTUs, there's a model for nearly every job from small residential to light commercial installations. Intelligent features are wrapped in a sleek, modern appliance-like jacket, making the Alpine both attractive and smart.

Stainless steel heat exchanger

The heart of the Alpine boiler is the ASME-certified stainless steel heat exchanger. Each heat exchanger is factory hydrotested to insure quality and reliability.



Alpine Controls

The control system on the Alpine has several features that maximize efficiency and comfort of the heating system:

- Full Modulation with 5-to-1 turndown
- Outdoor Reset
- Plug & Play Connections
- Domestic Hot Water Priority
- Stackable, with Built-in Provisions for External Staging Controls. Built-in terminals can receive a 0-10V DC signal from an external modulating control.

Natural or LP Gas

The Alpine is designed for easy field conversion from natural gas to LP gas with no kits or special tools required. The turn of a screw is all it takes!

FREE 5-Year Parts & Labor Warranty



The unmatched protection of a FREE 5-year parts & labor warranty is available with every Alpine boiler under 300 MBH and used in a residential application. This plan covers all Burnham-provided parts and the associated labor costs on eligible Alpine boilers for five years from the date of installation at no additional cost! Alpine boiler registration is required

within 90 days from the installation date. Registratrion is fast and simple, either by completing and mailing the registration card provided with the Alpine boiler or via the web at www.burnham.com/productregister.

Single Point Power

Boiler pump and DHW pump are powered directly from the Alpine

Negative Cabinet Pressure

Lower portion of the boiler cabinet operates under a negative pressure, creating an additional layer of safety

Easy To Move and Install

Jacket sides are equipped with flush mounted carry handles. Jacket bottom features nylon glides

Simple Connections

All gas, water, and electrical connections are made from the left side of the boiler

Condensate Protection

Unique polyproplyene condensate trap (patent pending) stands up to acidic condensate, and features an integral float switch which protects the heat exchanger from back-up

Venting



Alpine comes standard with a CPVC/PVC

vent kit. This ETL-approved material consists of a 30" CPVC starter pipe and one 90° CPVC elbow.

ALSO AVAILABLE



An optional European-standard **Polyproplyene Concentric Vent System** is also available. The Alpine can also be vented with an optional two pipe system using stainless steel (AL29-4C) vent matierial.

Burnham Hydronics Alpine™



Smart Controls

combustion air

Sealed Top PanelThe sealed top panel

from spills or leaks;

the components are

also isolated from the lower jacket to protect them from cold or moist

protects boiler controls

Display panel shows control status, settings can be adjusted with soft-touch buttons

Control panel slides out for easy servicing



Efficient Combustion

Air and fuel are pre-mixed in the blower assembly for clean, balanced combustion

Design Simplicity

Separate spark rod and flame sensor are used for longevity and reliability

Long Lasting Comfort

Durable, efficient stainless steel heat exchanger maximizes heat transfer

American-Made Quality

Alpine boilers are designed and assembled in Lancaster, PA. Each Alpine is hydrotested and fire-tested in order to deliver safety, efficiency, durability and low emissions.

Burnham Alliance SL™ Indirect-fired Water Heaters

The Alliance SL water heaters are designed with an effective hydrastone lining that offers superior corrosion resistance and outstanding performance in a wide variety of water conditions.

Water heaters are available in five sizes and come with a unique 10/2/1 warranty -10 years on the tank and coil, 2 years labor and 1 year on parts.





Alpine Specifications

	Input (MBH)				Net		Boiler Water	Heat Trans.	Shipping
Model No.	Mini	mum	Maximum	Output (MBH)	I=B=R	AFUE (%)	Volume	Area	Weight (pounds)
	to 2k ft.	2-7k ft.	0-7k ft.	(IVIDII)	(MBH)	(70)	(gallons)	(sq. ft.)	
ALP080	16	27	80	73	63	95	0.6	0.6	137
ALP105	21	35	105	96	83	95	0.7	0.7	155
ALP150	30	50	150	137	119	95	1.3	1.3	182
ALP210	42	70	210	193	168	95	1.7	1.7	206
ALP285	57	57	285	263	229	95	2.4	2.4	256
ALP399	80	80	399	377*	328	94.1/94.5**	3.4	3.4	304
ALP500	— Call for product availability and additional information —								

NOTES: DOE Heating Capacity (ALP080 through ALP285); Gross Output (ALP399)

*Gross output

** Thermal/combustion efficiency

Maximum Working Pressure - Water: ALP080-285=30PSI; ALP399=50PSI; 80PSI optional on all models Maximum Allowable Temperature = 210° F

Boilers shipped set for natural gas; field adjustment for LP (see instruction manual)

For elevations above 2000 feet, reduce ratings four percent (4%) per 1000 feet above sea level











Alpine Dimensions

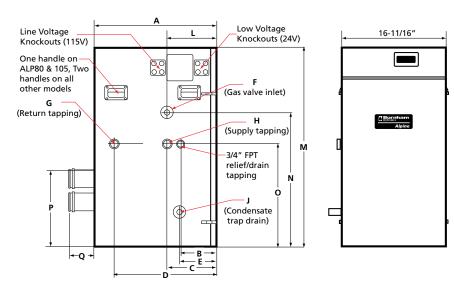
Model No.	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)	F (in.)	G (in.)	H (in.)	J (in.)	L (in.)	M (in.)	0 (in.)	P (in.)	Q (in.)
ALP080	12-9/16	5-5/8	7-5/16	9-5/16	5-15/16	1/2	1	1	*	8	32-3/16	16-11/16	12-1/2	4-3/4
ALP105	14	5-13/16	7-5/16	10-3/4	5-15/16	1/2	1	1	*	8	32-3/16	16-11/16	12-1/2	4-3/4
ALP150	19-11/16	5-13/16	7-5/16	16-7/16	5-15/16	1/2	1	1	*	8	32-3/16	16-11/16	12-1/2	4-3/4
ALP210	23-15/16	5-13/16	7-5/16	17-1/8	5-15/16	1/2	1	1	*	8	32-3/16	16-11/16	12-1/2	4-3/4
ALP285	21-13/16	7-5/16	14-1/8	18	12-1/4	3/4	1-1/4	1-1/4	*	8-5/16	43-7/16	17-5/16	12-3/16	4-3/4
ALP399	28-7/8	6-3/16	13-1/16	23-3/4	15-13/16	1	1-1/2	1-1/2	*	8-5/16	43-7/16	17-5/16	12-3/16	4-3/4

^{*}Factory provided socket end compression pipe joining clamp for 3/4" schedule 40 PVC pipe

Alpine Intake / Vent Sizes

Model No.	Intake Size	Vent Size	Max Length
ALP080	3"	3"	60′
ALP105	3"	3′	60′
ALP150	4"	3″	60′
ALP210	4"	3″	60′
ALP285	4"	4"	60′
ALP399	4"	4"	60′

Max length in equivalent feet for each run is 60 equivalent feet of intake & 60 equivalent feet vent length



Maximum Vent Lengths

# of 90° Elbows	2	4	6	8	10	12
Combined Intake/Vent - Feet of Pipe	110′	100′	90'	80′	70'	60′

NOTE: Snorkels are approved for use with PVC venting. Intake & vent lengths combined. 90° = 5 equivalent feet. Terminals do not count towards vent feet length



www.burnham.com