

95% Efficient!

Alpine™



Gas Fired, High Efficiency, Stainless Steel, Condensing Water Boiler

- 95% AFUE
- 80 – 399 MBH (6 sizes) 80-210 sizes are floor mount or wall hung – **SAME BOILER DOES BOTH!**
- Commercial models available, 500-800 MBH (4 sizes)
Complete product info and specifications available separately
- Field-proven stainless steel heat exchanger
- Natural or LP gas
- Circulator included (80-285 models)
- 5-year part replacement warranty
For residential boilers under 300 MBH
- Meets requirements of South Coast Rule 1146.2



MOUNTING

U.S. Boiler Company



- Backlit LCD touchscreen display provides diagnostic and troubleshooting information via intuitive text and menus, without cryptic codes or scrolling
- Full modulation with 5-to-1 turndown and adaptable firing rate output
- Outdoor reset included, plus warm weather shutdown, and off-season pump exercising
- DHW priority, control data logging, multiple & adjustable pump outputs
- 4-20mA and modbus inputs
- Compatible with optional Sage Zone Control Circulator Panel, which matches the boiler firing rates to actual zone load, saving money, energy, and preventing excessive boiler cycling



Alpine: Technical Information



Alpine Residential Standard Equipment

- Direct vent appliance
- Nylon floor guides
- Pre-installed hanging bracket and wall mount kit included (80-210)
- Gas, water, electrical connections on left side of boiler
- Slide-out control panel (80-285)
- Slide-out line voltage terminal strip (80-285)
- Sage2.3 Control System
 - LCD touch screen display
 - Self-guided control menus
 - 100+ help screens
 - Built-in self diagnostics
 - (3) separate circulator outputs
 - Built-in sequencer, stages up to (8) boilers
 - 4-20 MV inputs for external control
 - Outdoor reset including wired outside sensor
 - DHW priority
 - Warm weather shutdown
- Variable speed combustion blower
- Natural or LP gas
- Negative pressure gas valve
- Stainless steel heat exchanger
- Boiler loop circulator (80-285)
- Polypropylene condensate trap w/overflow protection
- Supply, return, and auto reset high limit water sensors
- 30 PSI safety relief valve
- Temperature and pressure gauge
- Flue gas temperature sensor and differential pressure switch
- CPVC to PVC vent kit
 - Includes 30" CPVC, 90° elbow, 2-vent terminals, screens,
- Five year parts replacement warranty (residential)

Alpine Ratings & Specifications (sea level to 2000 feet)

Model	AFUE%	Input (MBH) min-max	DOE Heating Capacity (MBH)	Net AHRI (MBH)	Vent Size (Inches)	Approx. Shipping Weight. (lbs.)
MODELS FOR WALL OR FLOOR MOUNTING						
ALP080B	95.0	16-80	72	63	3	137
ALP105B	95.0	21-105	96	83	3	155
ALP150B	95.0	30-150	136	118	3	182
ALP210B	95.0	42-210	194	169	3	206
FLOOR MOUNTED MODELS						
ALP285B	95.0	57-285	262	228	4	256
ALP399C	94.1 ¹	80-399	375 ²	326 ³	4	316

¹Thermal efficiency ²Gross output ³Net rating

Accessories:

- LWCO kit, auto reset 24V, 80-285 (P/N: 100592-01)
- LWCO kit, auto reset 24V, 399C (P/N 105591-01)
- Sage Zone Control
 - Circulator Panel (P/N: 104590-01)
 - Valve Panel (P/N: 104589-01)
- Service parts repair kit (P/N: 105319-04)

NOTES:

DOE Heating Capacity (ALP080 through ALP285); Gross Output (ALP399) Safety Relief Valve Pressure, Water (ALP080B thru ALP285B) – 30 PSI std.; 50 PSI, 80 PSI, and 100 PSI optional

Safety Relief Valve Pressure, Water (ALP399 only) - 50 PSI std.; 80 PSI and 100 PSI optional

ASME certified 150 PSI Maximum Allowable Working Pressure at 210°F. Max allowable temperature setting 210°F

Target setpoint is 190°F, automatic reset high limit setpoint is 200°F and manual reset high limit setpoint is 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 Vent & Intake Sizes

Model	Intake Size	Vent Size	Max Length Intake/Vent
ALP080B	2"	2"	60'/60'
	3"	3"	135'/135'
ALP105B	2"	2"	60'/60'
	3"	3"	135'/135'
ALP150B	3"	3"	135'/135'
ALP210B	3"	3"	135'/135'
ALP285B	3"	3"	60'/60'
	4"	4"	100'/100'
ALP399	4"	4"	100'/100'

Additional approved options

Alpine Dimensions (inches)

Model	A	F	G	H	M
ALP080B	12-9/16	1/2	1	1	32-3/16
ALP105B	14	1/2	1	1	32-3/16
ALP150B	19-11/16	1/2	1	1	32-3/16
ALP210B	23-15/16	1/2	1	1	32-3/16
ALP285B	21-13/16	3/4	1-1/4	1-1/4	43-7/16
ALP399	31-3/16	3/4	1-1/2	1-1/2	43-1/2

