

### נק " MODE

# High Efficiency Gas Fired, Stainless Steel, **Condensing Commercial Water Boiler**

- Up to 97% thermal efficiency
- 399, 500, 600, 700, & 800 MBH



- Equipped with Sage2.2<sup>™</sup> Control System, includes built-in sequencer for internal unmarched staging of up to eight Alpine boilers
- Stainless steel heat exchanger
- For use with natural or LP gas



• Unique, patented polypropylene condensate trap with internal cutoff switch prevents damage to heat exchanger from condensate backup

- Low waterside pressure drop
- Less than 20ppm NOx
- Stackable
- · Pre-installed temperature sensors: dual high limit/ supply, return, dual high limit flue gas
- · Altitude-ready with de-rate
- Fast wiring to side access high voltage and low voltage connection panels



 Backlit LCD touchscreen display provides diagnostic and troubleshooting information via intuitive text and menus, without cryptic codes or scrolling



- 5-to-1 turndown modulation 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





### Alpine Commercial Ratings & Specifications (sea level to 2000 feet) Net RATINGS AHRI Heat Supply (H) Approximate Minimum Maximum Gross Water Water Transfer Intake (D)/ Shipping (F) & Vent (C) Input Input Output Rating Thermal Content Area Gas Return (G) Weight Model (MBH) (MBH) (MBH) (MBH) Efficiency (Gal.) (SQ. FT.) Connection Connection Diameter (lbs.) ALP399C 80 399 375 326 94.1% 3.4 41.8 3/4" FPT 1-1/2" FPT 4"/4" 316 3/4" FPT 4"/4" ALP500C 100 500 485 422 97.0% 4.3 58.1 2" MPT 368 ALP600C 125 625 594 517 95.0% 5.4 76.2 1" FPT 2" MPT 4"/6' 458 ALP700C 145 725 95.0% 1" FPT 2" MPT 689 599 5.4 76.2 4"/6" 458 ALP800C 1" FPT 2" MPT 4"/6" 160 800 760 661 95.0% 6.2 87.0 500

Net AHRI water ratings shown are based on an allowance of 1.15. The manufacturer should be consulted before selecting a boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc. For forced hot water heating systems where the boiler and all piping are within the area to be heated, the boiler may be selected on the basis of its Gross Output.

Alpine Commercial Dimensions																
MODEL	Α	В	C	D	F	G/H	J	K	L	М	Ν	0	Р	Q	R	S
ALP399C	31-3/16"	43-1/2"	4"	4"	3/4" FPT	1-1/2" FPT	12-3/8"	23"	15-1/8"	7-13/16"	17-5/16"	32-1/2"	5-5/16"	12-1/2"	5-1/2"	5-1/8"
ALP500C	46-1/2"	35-1/16"	4"	4"	3/4" FPT	2" MPT	21-5/16"	34-13/16"	28-5/16"	5-3/8"	20-5/16"	12-3/8"	8-5/16"	15-1/2"	5-1/2"	8-1/8"
ALP600C	49-1/2"	35-1/16"	6"	4"	1" FPT	2" MPT	23-1/4"	38-1/16"	30-7/8"	6-7/8"	20-5/16"	10-5/16"	8-5/16"	15-9/16"	7-1/16"	8-1/8"
ALP700C	49-1/2"	35-1/16"	6"	4"	1" FPT	2" MPT	23-1/4"	38-1/16"	30-7/8"	6-7/8"	20-5/16"	10-5/16"	8-5/16"	15-9/16"	7-1/16"	8-1/8"
ALP800C	53-5/16"	35-1/16"	6"	4"	1" FPT	2" MPT	23-7/16"	41-3/16"	32-9/16"	6-7/8"	20-5/16"	10-5/16"	8-5/16"	15-9/16"	7-1/16"	8-1/8"



## **Standard Equipment**

ASME stainless steel heat exchanger Stainless steel mesh burner 5:1 turndown modulation Variable speed combustion blower Zero governor gas valve Supply & return temperature sensors Flue gas temperature sensor Sealed control compartment Negative pressure lower cabinet Outdoor air temperature sensor Low voltage PCB Line voltage PCB Condensate trap Pressure relief valve, 50 psi for 500 Pressure relief valve, 60 psi for 600-800

PolyPro, or stainless steel Rear flue outlet Stacking boiler brackets Flow switch VENT KIT: 30° CPVC, 90° elbow SAGE2.2 BOILER CONTROL SYSTEM: Touchscreen display Built in diagnostics Lead/lag and domestic hot water priority Warm weather shutdown 4-20 mA inputs for external modulation

3-in-1 Vent Connector - connects to CPVC.

## **Optional Equipment**

Part Number	Description
104590-01	Sage Zone Control Circulator Panel
80160718	120V LWCO/Manual reset kit
108182-01	24V LWCO Manual Reset
106605-01	CSD-1 kit <i>(models, ALP 500C, ALP600C, ALP700C, ALP800C only)</i> , includes high and low gas pressure switches, gas valve harness, and instructions
104200-01	Pressure relief valve kit, 80PSI
104201-01	Pressure relief valve kit, 100PSI
108703-01	Header sensor kit
101867-01	Condensate neutralizer kit

Form No. USBL16011 2/19 10m Printed in the U.S.A.

© 2019 U.S. Boiler Company, Inc. - Lancaster, PA Phone: 1-888-432-8887 **WWW.USboiler.net** 

