



**LIGHT COMMERCIAL**

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



### **SIZES**

- Two light commercial models; 320 & 399 MBH **NEW!**

### **PREMIUM FEATURES**

- Up to 95% thermal efficiency with **10:1** turndown  
– High efficiency and low emissions!
- Field-proven, stainless steel fire tube heat exchanger with low pressure drop
- Advanced Sage2.3 boiler control provides “out-of-the-box” high performance and easy setup  
– Touch screen display simplifies installation, operation, and diagnostics  
– Easily connects to optional **Sage Zone Controls** for additional energy savings, system optimization, and “short cycle” prevention
- Configured for lead/lag operation
- High altitude – zero or minimal de-rating reduces the costs of oversizing, field adjustable
- Wall or floor mounting – easy and flexible  
– Pre-installed wall bracket AND adjustable feet  
– **UNIQUE!** Position of touch screen display and boiler logo badge can be swapped for optimal ergonomics in wall mount installations
- Low NOx\*



### **VALUABLE EXTRAS INCLUDE**

- Universal vent connection for CPVC/PVC, polypropylene, and stainless steel flex
- Split-voltage junction box, fused easy-connect terminals
- Outdoor reset and sensor



\*Meets requirements of South Coast Rule 1146.2

**MADE IN U.S.A.**

# Aspen Light Commercial:

## Technical Information



### Standard Equipment

- Direct vent, sealed combustion appliance
- 10:1 turndown
- Natural gas; LP conversion kits sold separately
- Stainless steel heat exchanger, firetube
- Easy access control panel
- Separated, fused high and low voltage connections
- Sage2.3 Control System
  - LCD touch screen display
  - Self-guided control menus
  - Built-in self diagnostics
  - (3) Circulator outputs available
  - Built-in sequencer, stages up to (8) boilers
  - Outdoor reset including outside sensor
  - DHW priority
  - Warm weather shutdown
  - Modbus communications
  - Password security
- Variable speed combustion blower
- Gas valve
- Condensate trap with float switch
- LWCO-ready electrical connection
- Supply, return, and auto reset high limit water sensors
- Universal vent connection (CPVC/PVC, PP, SS)
- Flue gas temperature sensor and differential pressure switch
- 30 PSI safety relief valve
- Pre-installed hanging bracket and wall mount kit
- Field adjustable for high altitude with minimal derate

### Aspen – Light Commercial Ratings & Specifications

Model	Thermal Efficiency %	Input (MBH) min-max	Gross Output (MBH)	Net AHRI Rating Water (MBH)	MAWP (PSI)	Vent Size (Inches)	Approx. Shipping Weight (lbs.)
ASPN-320	95.0	32-320	304	264	80	4	270
ASPN-399	95.0	39.9-399	379	330	80	4	275

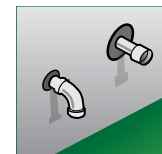
Safety Relief Valve Pressure, Water – 30 PSI std. ASME certified “H”. Max allowable temperature setting 210°F. Target setpoint is 180°F, manual reset high limit setpoint is 210°F. Boilers shipped set for natural gas. Above performance is for elevations to 2000'. Consult Installation, Operating and Service Instructions for instructions and performance for installations up to 10,100'. Allowable vent lengths up to 135 equivalent ft.

### Accessories:

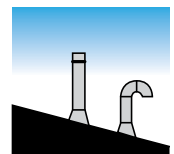
- LP Conversion Kits  
(320 P/N: 108015-01, 399 P/N: 108015-02)
- CSD-1 kit (P/N: 108183-01)
- Sage Zone Control
  - Circulator Panel (P/N: 104590-01)
  - Valve Panel (P/N: 104589-01)
- LWCO kit
  - Auto reset (P/N: 105591-01)
  - Manual reset (P/N: 108182-01)
- Service parts kit (P/N: 108033-01)
- Kit, CPVC starter and PVC vent terminations:  
(4" P/N: 107039-03)

### Typical Venting Configurations (Horizontal and Vertical) up to 135 eq. ft.

Illustrations are for representation only. For complete venting information, please see Installation, Operating and Service Instructions.



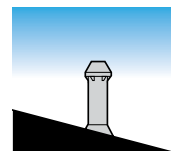
Horizontal 2-pipe



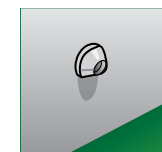
Vertical 2-pipe



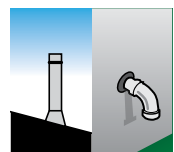
Horizontal 2-pipe  
low profile



Vertical 2-pipe  
concentric

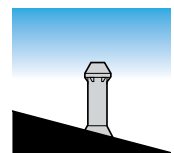


Horizontal 2-pipe  
concentric



Hybrid

Vertical exhaust/  
sealed B-vent for  
combustion air

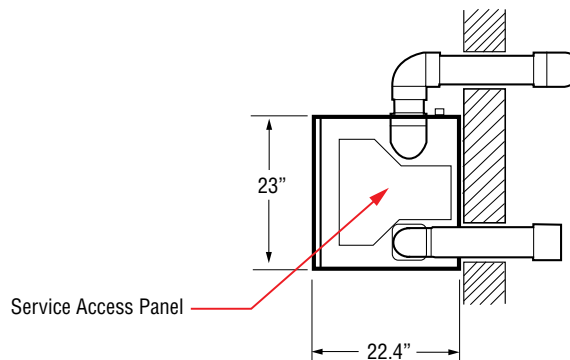


**PLUS polypropylene & stainless steel  
chimney chase options**

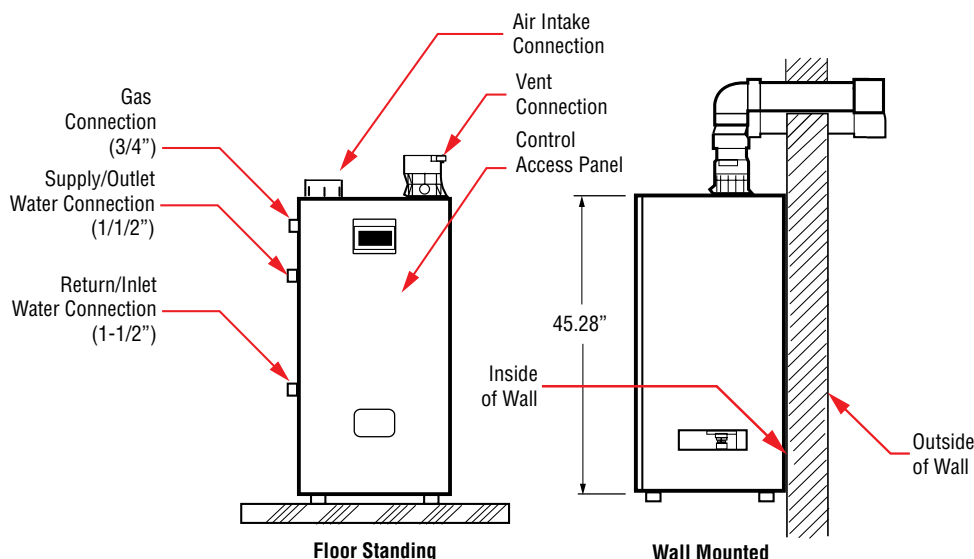
**U.S. Boiler Company**

[www.usboiler.net](http://www.usboiler.net)

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Service Access Panel



Floor Standing

Wall Mounted