



LIGHT COMMERCIAL

High Efficiency,
Gas Fired,
Stainless Steel,
Firetube Boiler



SIZES

- Two sizes; 320 & 399 MBH

PREMIUM FEATURES

- Up to 95% thermal efficiency, 10:1 turndown
- Field-proven, stainless steel firetube heat exchanger
 - Low pressure drop
- Sage2.3 boiler control
 - High performance and easy setup
 - Touch screen display
 - Configured for lead/lag operation
- USB Connect compatible
 - Smartphone app & bluetooth adapter
 - Complete boiler setup, control & troubleshooting
- High altitude with zero or minimal de-rate
 - Reduces cost of oversizing
 - Field adjustable
- Wall or floor mounting
 - Easy and flexible
 - Pre-installed wall bracket and adjustable feet
 - Touch screen display and boiler logo badge can be swapped for optimal ergonomics (wall mount)
- Low NOx*

USB  **Connect**

VALUABLE EXTRAS

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

*Meets requirements of South Coast Rule 1146.2

USB  **Connect**
COMPATIBLE

U.S.  **Boiler Company**

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 |

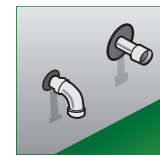
Safety Relief Valve Pressure, Water – 30 PSI std. ASME certified “H”. Max allowable temperature setting 210°F. Target setpoint is 180°F, manual reset high limit setpoint is 210°F. Boilers shipped set for natural gas. Above performance is for elevations to 2000'. Consult Installation, Operating and Service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

Accessories:

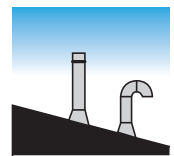
- USB Connect bluetooth adapter (P/N: 111667-01)
- LP Conversion Kits (320 P/N: 108015-01, 399 P/N: 108015-02)
- CSD-1 kit (P/N: 108183-01)
- LWCO kit
 - Auto reset (P/N: 105591-01)
 - Manual reset (P/N: 108182-01)
- Service parts kit (P/N: 108033-01)
- Kit, CPVC starter and PVC vent terminations: (4" 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



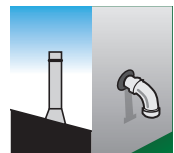
Horizontal 2-pipe low profile



Vertical 2-pipe concentric

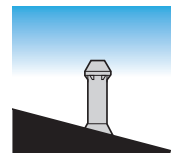


Horizontal 2-pipe concentric



Hybrid

Vertical exhaust/ sealed B-vent for combustion air



PLUS polypropylene & stainless steel chimney chase options



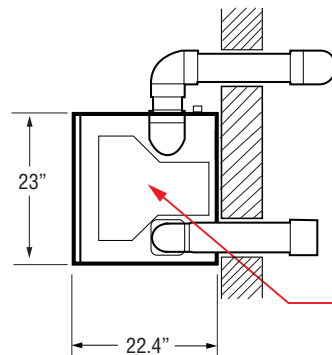
www.usboiler.net

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USB Connect

Free smartphone app (App Store & Google Play) and bluetooth adapter available at your distributor, USB Connect puts complete boiler control in the palm of your hand with real time boiler status and adjustments. "Wizards" provide step-by-step instructions for start-up, service, and troubleshooting.

See www.usboiler.net/product/usbconnect for details



Service Access Panel

