

“Quick Start” Guide

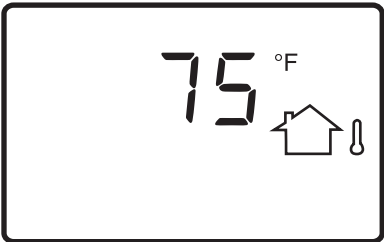
IMPORTANT PRE-START CHECKS: Follow boiler fill (and other) instructions in the ALTA Boiler Installation, Operating and Service instructions (I,O&S). Inspect all water lines, gas lines, wiring, venting and associated connections. Follow instructions to purge all air from the heat exchanger and system piping with the hose provided. Do not install any boiler SKU ending with “02” over 2,000 ft. (610m) altitude. (Example: ALTA-120B-1G02). Only boiler SKUs with -00 suffixes may be installed at altitudes between 2,000 ft. (610m) and 10,100 ft. (3,079m) - Example: ALTA-120B-1G00.

TIME-SAVING NOTE: Gas valve throttle screw and offset adjustments are not required for start up. This boiler adapts to heating requirements with a self-calibrating, “gas adaptive” control that monitors flame ionization to automatically adjust the gas valve to a correct air-fuel ratio.

1.

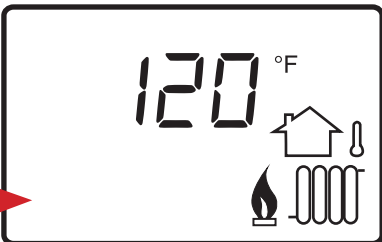
- Start a call for central heat (CH) and observe the display.
- NOTE: Boiler fires ten seconds after CH call. If it does not light after two tries, the boiler will enter a “soft lockout” for one hour. For fast reset:*
- Interrupt power for three seconds
 - Re-connect power and restart
 - Press  button to reset
 - Watch for flame icon 

Without a CH call
(Stand-by)



Flame icon appears last, after start up protocol is complete and after boiler is running.

During CH call
(While running)



2.

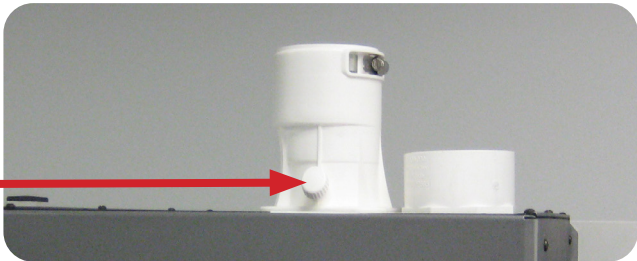
- Check gas pressure at valve inlet test port. Verify that the inlet gas pressure is between the minimum and maximum gas pressures shown on the rating plate when operating at maximum gas input rate and when all gas appliances (including the boiler) are both on and off.

GAS PRESSURE REQUIREMENTS

Max: 14.0 in.wc
Min: 2.5 in.wc (natural gas), 8.0 in.wc (L.P. gas)

3.

- Safety Check: Combustion
- Verify boiler is running over 50% firing rate
 - Close boiler front door and wait five minutes
 - Insert combustion analyzer probe into test port
 - Measure carbon monoxide (CO)
 - If CO is under 200ppm, combustion check is complete
 - If CO exceeds 200ppm, follow troubleshooting in I,O&S
 - Replace test port cap into test port

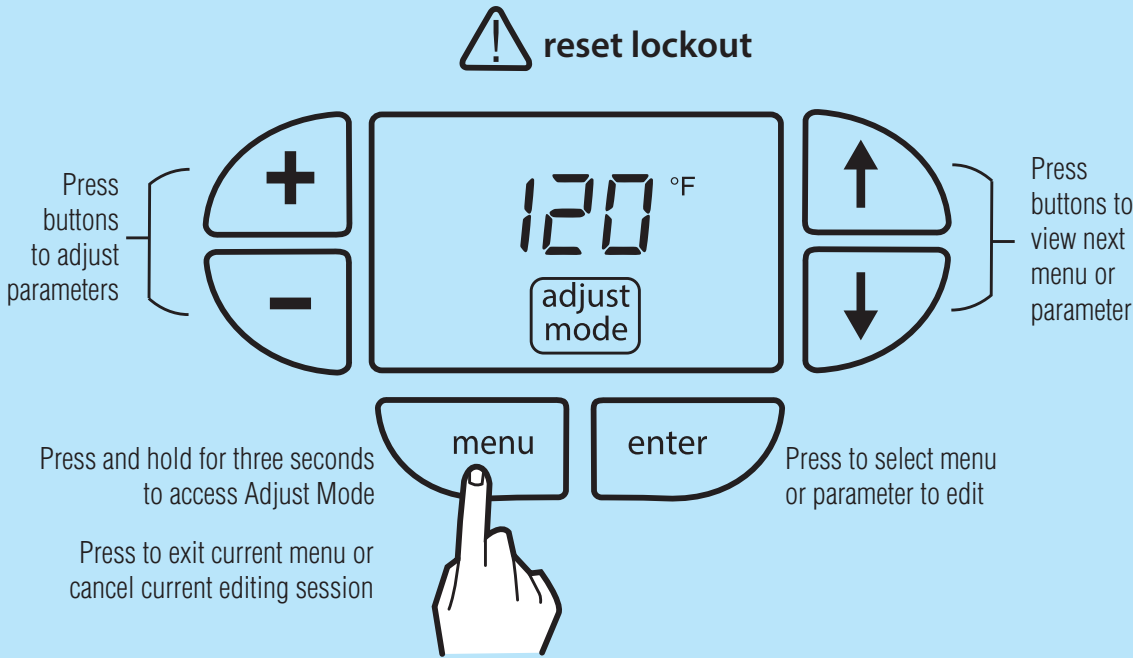


4.

- Safety Check: Ignition Safety Shut-Off
- When boiler is running, carefully unplug black electrode/flame sensor wire at burner door using insulated pliers
 - The burner should shut off immediately
 - Reconnect black electrode/flame sensor wire

Quick Menu and Commands

See separate instruction card 110493-(XX) for these additional advanced menus: Password, History, Diagnostic, Firing Rate, Setpoints, Pump, Lead/Lag



A	Quick Menu	Default
A01	Boiler Switch: On/Off	On
A02	DHW Recirc (Comfort) Mode: On/Off	Off
A03	DHW Setpoint: (60°F to 140°F, 16°C to 60°C)	120°F 49°C
A04	Central Heat 1 Setpoint: (60°F to 190°F, 16°C to 88°C)	180°F 83°C
A05	Central Heat 2 Setpoint: (60°F to 190°F, 16°C to 88°C)	180°F 83°C

*DHW comfort mode not available on heating-only boilers

	When not flashing or alternating, this temperature is: • DHW outlet temperature during DHW priority • Boiler supply temperature at all other times
	Visible when Central Heating demand is present
	Visible when DHW heating demand is present, icon will flash if DHW setpoint is being adjusted
	Visible when burner is firing, icon adjacent to active priority
	Visible when Central Heating setpoint reset is enabled
	Visible when adjust mode is active, icon will flash if manual mode is enabled
	Visible when manual reset lockout is active

Installation Tips

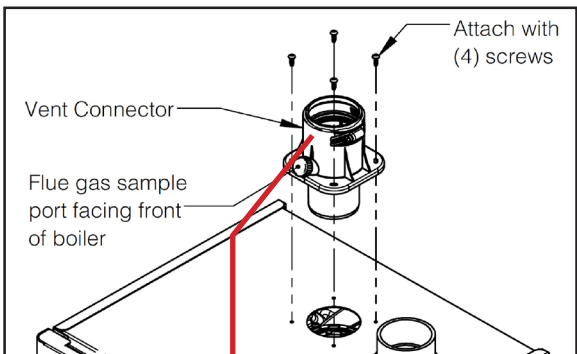
Model ALTA-080, ALTA-120B, ALTA-150, ALTA-180
High Efficiency Condensing Boiler

✓ SELECT vent length & diameter

Vent/Air Size-Inches (mm)	Minimum Equivalent Length-Feet (m)	Maximum Equivalent Length-Feet (m)
2 (60)	2.5 (0.76)	70 (21.3)
3 (80)	2.5 (0.76)	135 (41.1)

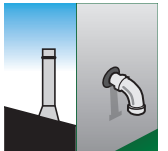
Consult Installation Operating and Service instructions (I,O&S) for approximate vent de-rates

✓ UNPACK universal connector, lubricate heat exchanger gasket, install connector

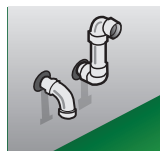


✓ SELECT vent termination

For more vent termination options and complete venting information, see I,O&S Instructions.



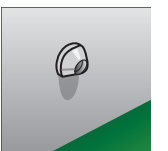
Hybrid
roof and wall



Horizontal 2-pipe
(up to 7' separation)



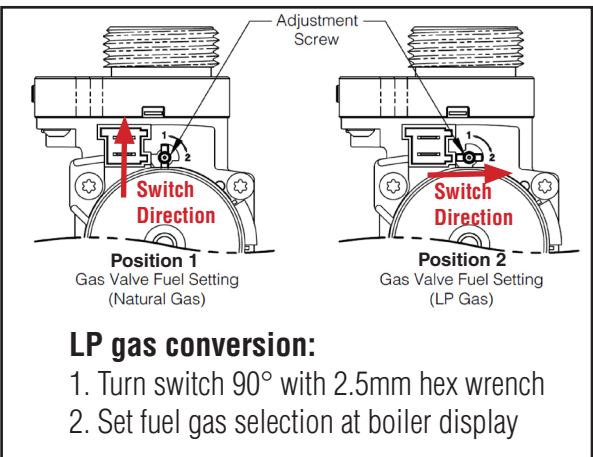
Horizontal 2-pipe
low profile



Horizontal 2-pipe
concentric

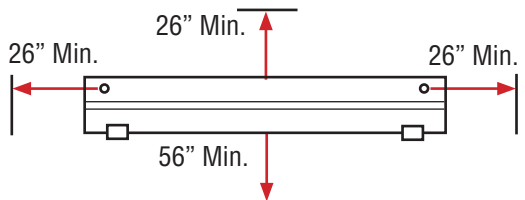
Illustrations are for representation only. Improperly located vent can damage property; **Before cementing external vent terminations, complete all preparation and run start up tests per I,O&S Instructions.**

Do not mount components on either of the side access panels (shown removed)



WALL MOUNT QUICK DRILLING GUIDE:

Allow these clearances from 5/16" wall mount bracket holes or consult boiler I,O&S Instructions if tighter spacing is needed.



Fast preventative maintenance:

Only four nuts, one gas fitting, one wire to deep heat exchanger access

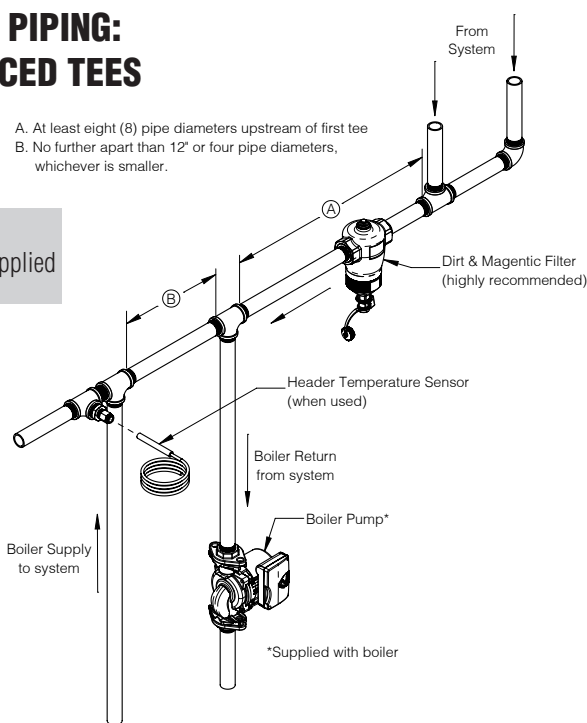
For service access:

first disconnect the spark wire at the heat exchanger. Gently push the plastic control enclosure down, then to the left and allow it swing down into the service position (as pictured).

NEAR BOILER PIPING: CLOSELY SPACED TEES

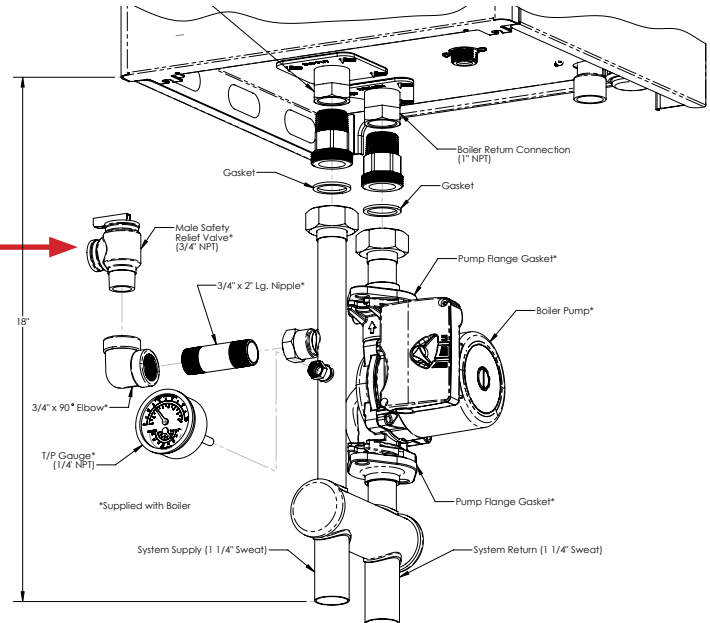
- A. At least eight (8) pipe diameters upstream of first tee
B. No further apart than 12" or four pipe diameters, whichever is smaller.

NOTE
All piping is field-supplied



Install **NO OTHER VALVES** between safety relief valve and boiler. Install in near boiler piping.

NEAR BOILER PIPING: PRIMARY/SECONDARY KIT Part Number: 111884-01



⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause severe personal injury, death, or substantial property damage. For assistance or additional information, consult a qualified installer, service agency, or the gas supplier. This boiler requires a special venting system. Read Installation, Operating and Service Instructions carefully before installing.

