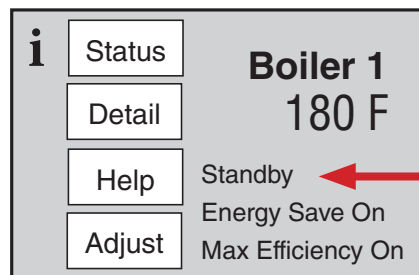


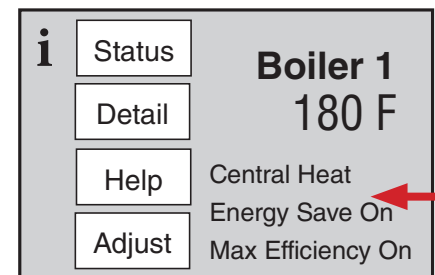
“Quick Start” Guide

IMPORTANT: Follow all pre-start checks, inspections, and boiler fill instructions prescribed in the Alpine Installation, Operating and Service (I,O&S) Instructions. Check and correct any gas line leaks and purge all air pockets. Adjustments are required to convert to L.P. gas (propane) as described in I,O&S Instructions; Do not operate converted boiler without proper LP conversion adjustments. Alpine boiler models are designated for installation at specific altitudes. Follow altitude settings and restrictions in Alpine Installation, Operating and Service (I,O&S) Instructions.

- Start boiler following instructions inside boiler front panel. Boiler display should look like illustrations (at right).
NOTE: Boiler will attempt to fire 30 seconds after a call for heat. Consult I,O&S Instructions if the boiler enters a soft lockout after six ignition tries.



Without a call for heat



With a call for heat

- Verify that inlet gas pressure is within the proper range when all gas appliances are on and off. Expert installers verify gas pressure drop does not exceed 1.5 in. wc.

INLET GAS PRESSURE REQUIREMENTS
 Max (natural gas and LP gas): 14.0 in. wc
 Min (natural Gas): 4.0 in. wc
 Min (LP gas): 11.0 in. wc

- Connect combustion analyzer – Remove left rear access panel to access flue sensor. Remove flue sensor and silicone cap to insert analyzer probe.



- Use commands at right to check O₂ (or CO₂) and CO at both HIGH FIRE and LOW FIRE.

HIGH FIRE / LOW FIRE Test Command Sequence
 (starting from boiler display HOME screen)

- Press “**ADJUST**” twice
- Press “**LOGIN**”
- Type “**086**”
- Press **RETURN ARROW**
- Press “**SAVE**”
- Press “**ADJUST**”
- Press “**MANUAL CONTROL**”
- Press “**HIGH**”
- Complete full combustion test (Step 5)
- Press “**LOW**”
- Complete full combustion test (Step 5)
- After combustion test, press “**AUTO FIRE**”

- PERFORM COMBUSTION TESTS.** Check and adjust combustion readings at flat head brass throttle screw on gas valve per below. Final readings must be taken with all boiler doors and covers in place except for left rear access panel.

- Check at high fire and low fire
- **Re-install black cap and temperature sensor on boiler vent connector immediately upon removal of analyzer probe!** If cap is white, replace with factory-approved black cap.

NOTE: If combustion setting is far out of adjustment, boiler will either not start or not pass combustion. If so:

- Shut down boiler
- Fully close throttle screw
- Re-open screw to number of turns in I,O&S Instructions
- Check and adjust combustion per below

ACCEPTABLE COMBUSTION READINGS
 (ALP080B to ALP210B ONLY)
 Max altitude: 7000 ft.; Max. CO Air free: 100ppm

Fast Track Setting for LP or Natural Gas:
Set Optimal O₂ between 5.2% and 5.5%

Consult I,O&S instructions if extended range options or CO₂ settings are needed.
 I,O&S manual also lists different low fire and high fire settings.

- Check ignition safety shut-off on firing boiler.
 - Carefully unplug orange flame rod wire at the flame rod using pliers.
 - The burner should shut off immediately.
 - Reconnect flame rod wire

Installation Tips

✓ VENTING

Vertical 2-pipe
Horizontal 2-pipe concentric
Hybrid
Horizontal 2-pipe
Horizontal 2-pipe low profile
Vertical 2-pipe concentric
Vertical exhaust/sealed B-vent for combustion air

For Stainless Steel options and complete venting information, see I,O&S Instructions. Illustrations are representative only. Improperly located vent can cause property damage.

✓ ELBOWS

Regular "short bend" and "long sweep" elbows.
(see chart in I,O&S Instructions)

✓ HIGH SNORKEL OPTION

Up to 7 ft. outlet (or inlet) risers only for CPVC/PVC systems. High/Low offset reduces cross contamination

12" TO 36"
12" MIN.
*May reduce to 0" if needed
12" MIN. ABOVE GRADE + HIGHEST ANTICIPATED SNOW LEVEL

Fast, easy assembly of low profile boiler vent
Top- CPVC starter connection adaptable to other materials
Bottom- Grease packet included to seal cap to vent and vent to Heat Exchanger

LOCATION AND QUICK DRILLING GUIDE:

Wall Mount- Use clearances for 5/16" bracket holes.
Floor Standing- Use only these side clearances minus 2 inches on each side.
 Consult boiler I,O&S Instructions if tighter spacing is needed for either scheme.

LEFT SIDE VIEW

FRONT VIEW

Easy access, touch screen control drawer.

Save money? Use the DHW terminals as a second auxiliary heating zone

For long life, remove chemicals from boiler room and external intake area. Instructions 105755-01 gives tips on blower/ inlet maintenance

Time Saving Option

Sage Zone Control

- Fast cut 5 cable connects to boiler.
- Easy programming saves energy and reduces short-cycling

Left side water, condensate, gas and electrical connections permit wall or floor mounting

DHW PIPING TIP

Increase supply and return pipe sizing between boiler and indirect water heater from 3/4" to 1" (27 gal. to 70 gal.) to improve tank recovery

PIPING HIGHLIGHTS

A. Max. 12 in. or four pipe diameters if smaller
 B. Min. 18 in. straight pipe for air scoop

Field-installed low water cutoff(s). Locate within designated area:
 - 12" max from side of boiler to vertical run of pipe
 - 14" max below top of boiler

Consult boiler, I,O&S instructions for recommendations on system pre-cleaning and protective inhibitors

⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury, or loss of life. 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.