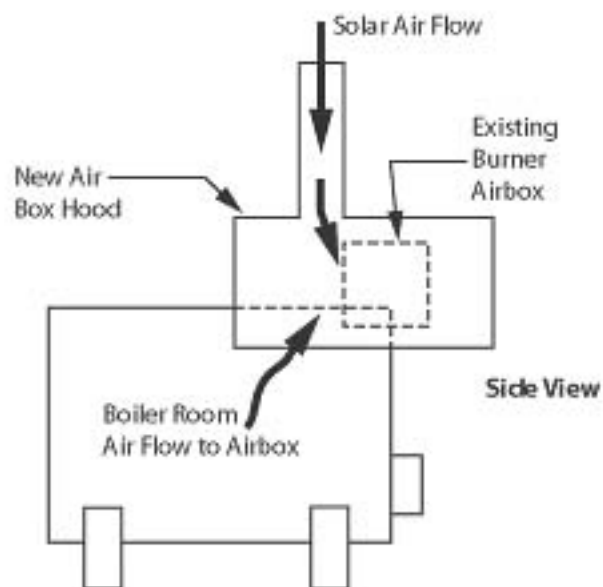


Front View



Side View

Operation:

When the boiler starts, the burner fan draws a suction at the face of the airbox. Initially boiler room air is drawn into the airbox from the bottom of the airbox hood. Airflow moves the sail switch which activates the solar fan. Solar heated air is drawn from the solar roof and floods the airbox hood, allowing the boiler to draw heated air. Alternate circuit contacts, controlled by the boiler controls, can also be supplied. When the solar fan is disengaged, boiler air flows from the boiler room through bottom openings of the new airbox hood.



American Solar, Inc.
Boiler Air Pre-heating Schematic
www.americansolar.com
 703-346-6053 January 12, 2001