



## High Altitude Conversion Kit

For S8 and A8 Furnace Models

### Models:

**BAYSWT14AHALTAB, BAYSWT15AHALTA, BAYSWT16AHALTAB, BAYSWT17AHALTA, BAYSWT18AHALTA, BAYSWT19AHALTA, BAYSWT20AHALTA, BAYSWT21AHALTA, BAYSWT22AHALTA, BAYSWT23AHALTA, BAYSWT24AHALTA**

ALL phases of this installation must comply with NATIONAL, STATE AND LOCAL CODES.

**IMPORTANT** - This document is customer property and is to remain with this unit. Please return to service information pack upon completion of work.

### WARNING

This conversion kit shall be installed by a qualified service agency in accordance with the furnace manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, an explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of the kit. The installation is not proper and complete until the operation of the converted furnace is checked as specified in the furnace manufacturer's instructions supplied with the kit.

### WARNING

This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects of other reproductive harm. For more information go to [www.p65Warnings.ca.gov](http://www.p65Warnings.ca.gov).

### A. GENERAL

These high altitude conversion kits are to be used only with S8/A8 gas furnace models utilizing either natural gas or LP gas as fuel.

These instructions describe the conversion of these furnaces for installations exceeding an altitude of 4000 feet above sea level.

Due to the lower density of air at higher altitudes, there would be insufficient negative pressure developed by the induced draft blower to maintain normal operation. Therefore, to compensate for the less dense air, pressure switches must be changed to prevent nuisance lockouts and/or cycling of the induced draft blower on high speed. Please note that with the reduced firing input rates required for high altitude installations, the induced draft blower has ample capacity to provide sufficient combustion air for proper and safe operation.

**Refer to the National Fuel Gas Code - latest Edition 11.1.2 - High Altitude and Table E.1.1(d).**

### CAUTION

Before proceeding with the conversion, the gas supply must be shut off prior to disconnecting the electrical power.

### B. CONVERSION

These instructions below apply to S8/A8 gas furnaces only.

1. Check for damage to kit contents, and check for all items listed in Table 1 on page 2.
2. Disconnect electrical supply to furnace.
3. Remove the wiring connections from the pressure switch(es) in the furnace. Mark the wires if needed to properly identify the replacement.
4. Remove the pressure switch(es) sample tube from the switch assembly.
5. Remove the pressure switch(es) from the furnace.
6. Install the new pressure switch in the same location and manner as the old pressure switch.
7. Connect the pressure switch sample tube and electrical connections.
8. Reconnect the electrical supply to the furnace.

### C. CHECKOUT

Adjust input rate and manifold pressure according to the furnace Installer's Guide. Install correct main burner gas orifice according to this document. Fill out the information on the conversion label (part number A343079P01) and attach the label to the exterior of the furnace door. Once the furnace has been correctly rated for the high altitude installation, and the pressure switch has been changed, the furnace installation shall be checked for proper installation and performance. Refer to the furnace Installer's Guide for checkout procedure.

### D. NOTES

1. The use of high altitude calibrated pressure switches in sea level applications is not permitted.
2. The high altitude pressure switches are factory calibrated and sealed. Field adjustment is not permitted. If the factory seal is broken, the product warranty may be voided.

**Table 1. Kit Contents**

Part number	Qty	Description
Varies by kit	Varies by kit	Pressure Switch
18-CH97D1-3A-EN	1	Installer's Guide

**Table 2. Kit Matches and Settings**

Furnace Models		Kit Model No.	PS1—LOW SET PT	PS2—HIGH SET PT
S8#1A026M2P*	A801X026AM2*	BAYSWT20AHALTAA	NA	-0.25" +/- 0.05" WC
S8#1A040M3P*	A801X040AM3*	BAYSWT21AHALTAA	NA	-0.47" +/- 0.05" WC
S8#1B040M2P*	A801X040BM2*	BAYSWT21AHALTAA	NA	-0.47" +/- 0.05" WC
S8#1B060M3P*	A801X060BM3*	BAYSWT15AHALTAA	NA	-0.60" +/- 0.05" WC
S8#1B060M4P*	A801X060BM4*	BAYSWT15AHALTAA	NA	-0.60" +/- 0.05" WC
S8#1B080M4P*	A801X080BM4*	BAYSWT15AHALTAA	NA	-0.60" +/- 0.05" WC
S8#1C080M5P*	A801X080CM5*	BAYSWT14AHALTAB	NA	-0.50" +/- 0.05" WC
S8#1C100M5P*	A801X100CM5*	BAYSWT14AHALTAB	NA	-0.50" +/- 0.05" WC
S8#1D120M5P*	A801X120DM5*	BAYSWT14AHALTAB	NA	-0.50" +/- 0.05" WC
S8X2A040M3P*		BAYSWT22AHALTAA	-0.25" +/- 0.05" WC	-0.47" +/- 0.05" WC
S8X2B060M3PSAAA		BAYSWT17AHALTAA	-0.30" +/- 0.05" WC	-0.60" +/- 0.05" WC
S8X2B060M4PSAAA		BAYSWT17AHALTAA	-0.30" +/- 0.05" WC	-0.60" +/- 0.05" WC
S8X2B060M3PSAAB & later		BAYSWT23AHALTAA	-0.40" +/- 0.05" WC	-0.70" +/- 0.05" WC
S8X2B060M3PTAAA & later		BAYSWT23AHALTAA	-0.40" +/- 0.05" WC	-0.70" +/- 0.05" WC
S8X2B060M4PSAAB & later		BAYSWT23AHALTAA	-0.40" +/- 0.05" WC	-0.70" +/- 0.05" WC
S8X2B060M4PTAAA & later		BAYSWT23AHALTAA	-0.40" +/- 0.05" WC	-0.70" +/- 0.05" WC
S8X2B080M4P*		BAYSWT18AHALTAA	-0.37" +/- 0.05" WC	-0.60" +/- 0.05" WC
S8X2C080M5P*		BAYSWT16AHALTAB	-0.25" +/- 0.05" WC	-0.50" +/- 0.05" WC
S8X2C100M5P*		BAYSWT19AHALTAA	-0.37" +/- 0.05" WC	-0.50" +/- 0.05" WC
S8X2D120M5P*		BAYSWT24AHALTAA	0.45" +/- 0.05" WC	-0.50" +/- 0.05" WC

\* - SAAA & later or TAAA & later

# - B or X

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