

INSTALLER'S GUIDE

18-CH12D27-2A-EN

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

Models:

BAYHALT245
BAYHALT246
BAYHALT247

HIGH ALTITUDE CONVERSION KITS

for *UX2, *DX2, *UX-R, *DX-R, *UY-R, and *DY-R
Furnace Models

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

A. GENERAL

These high altitude conversion kits are to be used only with furnace model numbers *UX2, *DX2, *UX-R, *DX-R, *UY-R, and *DY-R series.

These instructions describe the conversion of these furnaces for installation exceeding an altitude of 5000 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 reduced 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, Section 8.1.2 and Appendix F, for information regarding the correct procedure to derate the furnace's input. The following instructions must be followed to convert these furnaces for high altitude applications.

B. CONVERSION

The instructions below apply to *UX2, *DX2, *UX-R-V, *DX-R-V, *UY-R9V-V and *DY-R9V-V furnace product lines.

1. Check for damage to kit contents, and check for all items listed in the table.
2. Disconnect electrical supply to furnace, if installed.
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 from the unit.
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 unit.

* First letter may be "A" or "T"

C. CHECKOUT

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 unit Installer's Guide for checkout procedure.

C. 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.

KIT CONTENTS: HIGH ALTITUDE CONVERSION KITS		
Kit Model No.	Furnace Models	Contents
BAYHALT245	*UX2B060A, *DX2B060A *UY060R-V, *UX060R-V, *DY060R-V, *DX060R-V	2 - Pressure Switch
BAYHALT246	*UX2B080A, *DX2B080A *UX2C100A, *DX2C100A *UY080R-V, *UX080R-V, *DY080R-V, *DX080R-V, *UY100R-V, *UX100R-V, *DY100R-V, *DX100R-V	2 - Pressure Switch
BAYHALT247	*UX2D120A, *DXD120A *UY120R-V, *UX120R-V, *DY120R-V, *DX120R-V	2 - Pressure Switch

* First letter may be "A" or "T"

Installer's Guide

VENT LENGTH TABLES FOR *UX/DX-R-V AND *UY/DY-R-V (ONLY) WITH HIGH ALTITUDE KIT

VENT LENGTH TABLE WITH BAYHALT KIT (HIGH ALTITUDE KIT)			
TABLE	MAXIMUM TOTAL EQUIVALENT LENGTH IN FEET FOR VENT AND INLET AIR (SEE NOTES)		
5,000 - 12,000 Feet	2 INCH PIPE	2.5 INCH PIPE	3 INCH PIPE
*UX2B060A, *DX2B060A UX/UY/DX/DY060R936V	200	200	200
*UX2B080A, *DX2B080A UX/UY/DX/DY080R942V	50	120	200
*UX2C100A, *DX2C100A UX/UY/DX/DY100R948V	Not Allowed	60	200
*UX2D120A, *DX2D120A UX/UY/DX/DY120R960V	Not Allowed	Not Allowed	200

NOTES: * - First letter may be "A" or "T"

1. Minimum vent length for all models: 3' horizontal and vertical.
2. DO NOT MIX PIPE DIAMETERS IN THE SAME LENGTH OF PIPE OUTSIDE THE FURNACE CABINET, (Except adapters at the top of the furnace).
3. MAXIMUM PIPE LENGTHS MUST NOT BE EXCEEDED! THE LENGTH SHOWN IS NOT A COMBINED TOTAL, IT IS THE MAXIMUM LENGTH OF EACH (Vent or Inlet air pipes).
4. One SHORT radius 90° elbow is equivalent to 10' of 3" pipe and one LONG radius elbow is equivalent to 6' of 3" pipe. One 90° elbow is equivalent to 7½' of 2½" pipe or 5' of 2" pipe. Two 45° elbows equal one 90° elbow.
5. The termination tee or bend must be included in the total number of elbows. If the BAYVENT100A termination kit is used, the equivalent length of pipe is 5 feet. BAYVENT200A/B equivalent length is 0 feet.
6. Pipe adapters are field supplied (except 120).

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The manufacturer has a policy of continuous data improvement and it reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

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