

Technical service bulletin

Conversion Kit Instructions

For High Altitude

Buderus

Introduction

- This technical bulletin is a replacement for the original instructions (document 5 643 983-3/2005) for converting the G124X Series Boiler for use at elevations above 8500 ft. Please discard original instructions.

Note: The conversion shall be performed by a manufacturer's authorized representative in accordance with the requirements of the manufactures, provincial or territorial authorities having jurisdiction and in accordance with the requirements of the Can/CGA-B149.1 or Can/CGA-B149.2 installation.

Required input rates

G124X-18	G124X-25	G124X-32
66,660 BTU/H	92,700 BTU/H	119,250 BTU/H

Manifold pressure (in inches of water column)

Model	G124X-18	G124X-25	G124X-32
Natural	3.6" WC	3.5" WC	3.6" WC
Propane	9.8" WC	10.3" WC	10.0" WC

This kit contains the following parts:

- Main Gas Burner orifice and gasket
- Conversion data plate to be filled out and affixed to the appliance
- Conversion instructions

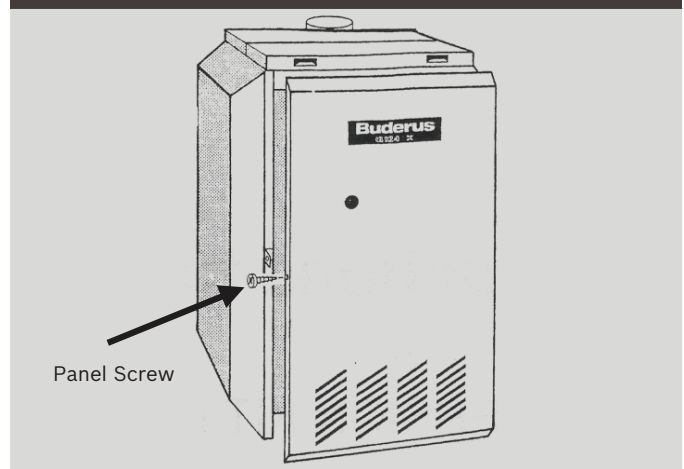
Conversion instructions for use at high altitude

Note: The boiler must be converted prior to installation.

- Remove cover access panel from the boiler, see Fig. 1.

Control Access Panel Removal

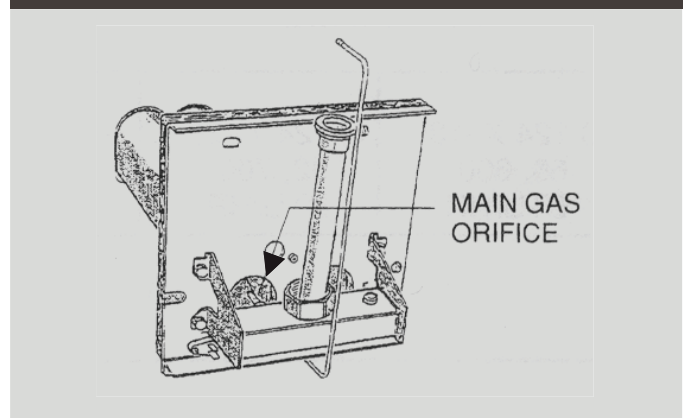
Figure 1



- Remove main orifices and washers from the burner assembly, see Fig. 2.

Main Gas Orifice Location

Figure 2



3. Install new orifices and washers supplied with the kit. Ensure orifices are the proper size for your boiler application per the following tables.

Orifice Sizes - Natural Gas

Altitude 0- 8,500 ft.		
Model	Orifice size	Kit number
G124X-18	2.85mm	Standard version
G124X-25	2.75mm	Standard version
G124X-32	2.70mm	Standard version
Altitude 8,501 - 12,000 ft.		
Model	Orifice size	Kit number
G124X-18	2.80mm	G124X18N12000
G124X-25	2.70mm	G124X25N12000
G124X-32	2.65mm	G124X32N12000

Orifice Sizes - Liquid Propane

Altitude 0- 8,500 ft.		
Model	Orifice size	Kit number
G124X-18	1.80mm	G124X18P85I
G124X-25	1.75mm	G124X25P85I
G124X-32	1.70mm	G124X32P85I
Altitude 8,501 - 12,000 ft.		
Model	Orifice size	Kit number
G124X-18	1.75mm	G124X18P12000I
G124X-25	1.70mm	G124X25P12000I
G124X-32	1.65mm	G124X32P12000I

4. Fill out the required information on the conversion plate and affix the plate to the outside of the boiler jacket as close as possible to the existing rating plate.
5. If the boiler has not been placed in operation, follow the installation instructions in "the installation, operation and maintenance manual" supplied with the boiler.

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