



# GAS CONVERSION INSTRUCTIONS DIRECT VENT GAS FIREPLACES

## FOR USE ON DIRECT VENT GAS FIREPLACE MODELS:

CONVERSION KITS	
MODEL	PART NUMBER
(A)DVX36FP3(1,2,3)(CL,LN)(-1,-2,-3,-4)	23695
(A)DVX36DP31-1	23695
DVX36DP31-2	23695
(A)DVX36FP93CL-1	23696
(A)DVX42FP3(1,2,3)(CL,LN)(-1,-2,-3,-4)	23697
(A)DVX42DP31-1	23697
DVX42DP31-2	23697
(A)DVX42FP93CL-1	23698

## FOR CONVERSION TO NATURAL GAS

### ⚠ WARNING

**This conversion kit is to be installed by an Empire Comfort Systems, Inc., distributor (or other qualified agency<sup>1</sup>)\*in accordance with the manufacturer’s instructions and all codes and requirements of the authority having jurisdiction. Failure to follow instructions could result in serious injury or property damage. The qualified agency performing this work assumes responsibility for this conversion.**

**1National Fuel Gas Code Z223.1 (Latest Edition)**

**\*The term “qualified individual, firm, corporation or company which either in person or through a representative is engaged in and is responsible for (a) the installation of gas piping or (b) the connection, installation repair, or servicing of equipment, who is experienced in such work, familiar with all precautions required, and has complied with all the requirements of the authority having jurisdiction.**

### CHECK SAFETY SHUTDOWN PERFORMANCE

### ⚠ WARNING

**Perform the safety shutdown test anytime work is done on a gas system to avoid the possibility of fire or explosion with property damage, personal injury or loss of life.**

### SAFETY SHUTDOWN SYSTEM

#### Continuous Ignition Systems (Standing Pilot)

1. Place gas control knob in PILOT position. Main burner should go off and pilot should remain lit.
2. Extinguish pilot flame. Pilot gas flow should stop within 30 seconds. Safety shutoff of pilot gas proves complete shutdown since safety shutoff valve blocks flow of gas to main burner and pilot.
3. Relight pilot burner and operate system through one complete cycle to make sure all controls operate properly.

PARTS LIST				
Part Description	KIT 23695	KIT 23696	KIT 23697	KIT 23698
Pilot Orifice	R-7659	R-6162	R-7659	R-6162
Main Burner Orifice	P-211	P-211	P-209	P-209
Sit Gas Valve Conversion Kit	R-7656	-	R-7656	-
Honeywell Gas Valve Conversion Kit	-	R-6160	-	R-6160
Gas Conversion Label	23705-2139	23705-2139	23705-2139	23705-2139

**GAS INPUT FOR DIRECT VENT FIREPLACE CONVERTED TO NATURAL GAS:**

- (A)DVX36(FP,DP) 35,000 BTU per hour
- (A)DVX42(FP,DP) 37,500 BTU per hour

The direct vent gas fireplace when converted to Natural Gas will have a manifold pressure approximately 3.5" w.c. (.871kPa) for a maximum input or 1.7" w.c. (.423kPa) for a minimum input at the valve outlet with the inlet pressure to the valve from a minimum of 5.0" w.c. (1.245kPa) for the purpose of input adjustment to a maximum of 10.5" w.c. (3.237kPa).

**INSTRUCTIONS FOR CONVERSION**

**For All (A)DVX Models**

1. If fireplace is installed, turn OFF gas and electric supply to fireplace before making gas conversion.
2. On (A)DVX(36,42)FP models, remove top louver, grasp louver, lift and pull forward. On DVX(36,42)DP models, removal of the one-piece decorative face is required.
3. On (A)DVX(36,42)FP models, lower bottom louver, lift and hinge forward.
4. Release two glass frame spring clamps at bottom of firebox.
5. Remove glass frame assembly.
6. Remove logs from burner assembly.
7. Remove four (4) 10 x 1/2" screws from burner base and one (1) 8 x 1/4" screw from air shutter. Grasp burner assembly, lift and pull forward to remove burner assembly.
8. Remove air shutter from orifice fitting.
9. Remove Propane Gas main burner orifice from orifice fitting.
10. Install Natural Gas main burner orifice into orifice fitting:
  - (A)DVX36FP ORIFICE **MARKED 32**
  - (A)DVX42FP ORIFICE **MARKED 31**
11. Thread air shutter onto orifice fitting.

**For Models (A)DVX(36,42)FP9(2,3)**

12. Remove pilot tubing from pilot burner.
13. Remove Propane Gas pilot orifice from pilot burner.
14. Insert Appropriate Natural Gas pilot orifice into pilot burner.
15. Attach pilot tubing onto pilot burner.

**For Models (A)DVX(36,42)(FP,DP)**

12. Pull upward on pilot hood to remove and gain access to pilot injector orifice.
13. Remove Propane Gas pilot injector orifice from pilot burner with 5/32" hex (Allen) wrench.
14. Insert Appropriate Natural Gas pilot injector orifice into pilot burner using the 5/32" hex wrench.
15. Re-install pilot hood to pilot assembly. Push downward to snap in place.

### **For All (A)DVX Models**

16. For (A)DVX36(FP,DP)3(2,3) and (A)DVX42(FP,DP)3(2,3) only, convert gas valve as instructed in **S.I.T. Natural Gas Valve Conversion Kit**.
17. For (A)DVX36FP93 and (A)DVX42FP93 only, convert gas valve as instructed in **Honeywell Natural Gas Valve Conversion Kit**.
18. Align burner assembly with air shutter as you place burner assembly into original position in firebox.
19. Adjust air shutter setting to **Full Open**.
20. Attach air shutter to burner assembly with one (1) 8 x 1/4" screw from Step 7.
21. Attach burner assembly to firebox bottom with four (4) 10 x 1/2" screws from Step 7.
22. The converted fireplace must be connected to a supply of the conversion gas and checked for leaks at all connections.
23. Refer to Log and Ember Placement in your Installation Instructions and Owner's Manual to place logs onto burner assembly.
24. The fireplace must be checked to ensure it is operating at the correct pressure of 3.5" w.c.
25. Replace glass frame onto firebox.
26. Secure the two glass frame spring clamps at bottom of firebox.
27. On (A)DVX(36,42)FP models, align the tabs on top louver brackets with slots in front posts to secure top louver. On DVX(36,42)DP models, reinstall the one-piece decorative face assembly.
28. On (A)DVX(36,42)FP models, close bottom louver. Lift slightly to engage the end tabs into the slots in fireplace sides to close bottom louver.
29. Gas conversion is completed.

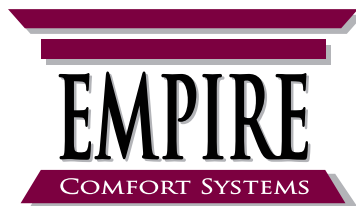
The main burner flame and pilot burner flame must be checked for proper flame characteristics, as outlined in the Installation Instructions and Owner's Manual.

### **VERIFYING INPUT RATE OF CONVERTED FIREPLACE**

The input of the fireplace must be checked as follows:

1. Turn off all other gas appliances. Clock the gas meter and determine the number of seconds required to consume one cubic foot of gas.
2.  $3600 \div \text{time (in seconds)} = \text{cu. Ft. per hour}$ .
3. Then  $\text{cu. Ft. per hour} \times \text{heating value of gas} = \text{input rate (Btuh)}$ . On installation without gas meters, check manifold for proper pressure.

If fireplace is not installed or warranty card has not been returned to Empire Comfort System's, Inc., check off type of gas converted to on card. Also, indicated conversion by adding "Conv." behind type of gas.



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**Empire Comfort Systems Inc.**  
**Belleville, IL**

If you have a general question  
about our products, please e-mail  
us at [info@empirecomfort.com](mailto:info@empirecomfort.com).

If you have a service or repair  
question, please contact your dealer.