



INSTALLATION AND VENTING INSTRUCTIONS

RXGW-B01

Chimney Adapter Kit For Upflow Only,
Category 1, Fan Assisted 80+ Furnaces

THESE INSTRUCTIONS MUST REMAIN WITH THE FURNACE AFTER INSTALLATION

Furnaces acceptable for use with RXGW-B01 Chimney Adapter are also identified by a label located on the furnace top plate as shown below:

**THIS APPLIANCE IS CSA
CERTIFIED FOR USE WITH
RXGW-B01 CHIMNEY ADAPTER**

WARNING

This kit must be installed by a qualified service technician exactly as specified in these instructions and all applicable State and local codes. In the absence of local codes, installations must conform to the latest edition of the National Fuel Gas Code (ANSI Z233.1). Failure to follow these instructions may result in fire, explosion, or the production of carbon monoxide causing structure damage, personal injury or loss of life.

WARNING

**Do Not Use This Kit to Vent Category II, III, or IV Furnaces
Do Not Use This Kit on Standing Pilot Furnaces**

INTRODUCTION

This instruction manual covers the use of a Chimney adapter kit for installations having tile-lined masonry chimneys. The chimney adapter will reduce the amount of condensation in the flue system and prevent excessive and premature deterioration of the tile and brick mortar joints. This kit may only be installed if the following requirements are met:

1. The 99% winter design temperature shall not be lower than 10⁰F for exterior chimneys. (Refer to Figure G-19 in the National Fuel Gas Code).
2. Chimney construction shall conform to the Standard for Chimneys, Fireplaces, Vents, and Solid Fuel Burning Appliances (ANSI/NFPA 211).
3. The furnace must bear a factory applied label stating the Chimney Adapter kit number that may be used.
4. An operational draft hood equipped water heater may be common vented with the furnace. Additional draft hood equipped appliances may also be added to the venting configuration.
5. Type B double-wall metal vent must be used for all furnace and water heater vent connectors.
6. Furnace oversizing must not exceed 70% of the winter design heating load.

Refer to the National Fuel Gas Code (NFPA54) for information on chimney sizing information. The following "Table 1" has been extracted from NFPA54:

Vent Height (Feet)	Minimum Internal Area of Chimney (Square Inches)					
	28	38	50	63	78	113
	NAT+NAT	NAT+NAT	NAT+NAT	NAT+NAT	NAT+NAT	NAT+NAT
6	71	103	143	188	246	NR
8	82	119	163	218	278	408
10	90	131	177	236	302	454
15	106	152	212	283	365	546
20	122	172	243	325	419	648
30	137	198	278	381	496	749
35	NR	NR	281	401	524	792

*NOTES: NR=Vent Configuration is NOT RECOMMENDED

Table 2

Furnce Input Rate	Maximum Lateral B-Vent Connector Length
50,000 Btu/hr	7.5
75,000 Btu/hr	7.5
100,000 Btu/hr	7.5
125,000 Btu/hr	9
150,000 Btu/hr	9

Table 3

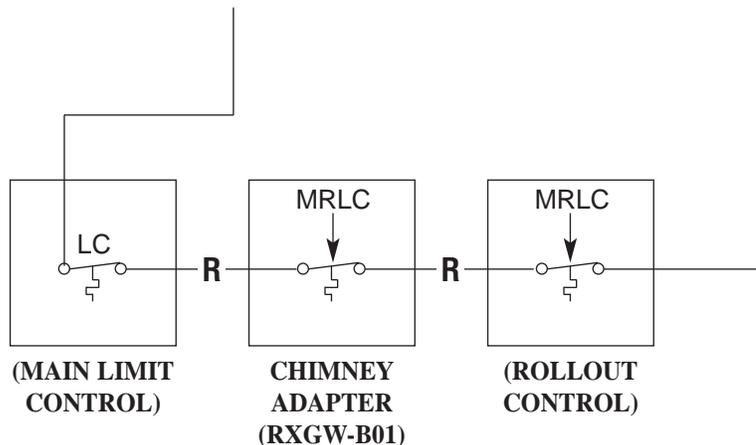
Chimney Liner Nominal Size and Inside Area					
Furnace Input Rate	Maximum Chimney Height	Double Wall Pipe Vent Diameter	Masonry Chimney Tile Liner		
			Max. Nominal Liner Size	Max. Inside Diameter	Max. Equivalent Area
Btu/hr	Feet	Inches	Inches x Inches	Inches	Square Inches
50,000	20	5	8x8	7.4	42.7
75,000	30	5	8x8	7.4	42.7
75,000	20	5	8x12	9.0	63.6
100,000	35	6	8x8	7.4	42.7
100,000	30	6	8x12	9.0	63.6
125,000	35	6	8x8	7.4	42.7
125,000	35	6	8x12	9.0	63.6
150,000	35	7	12x12	10.4	83.3

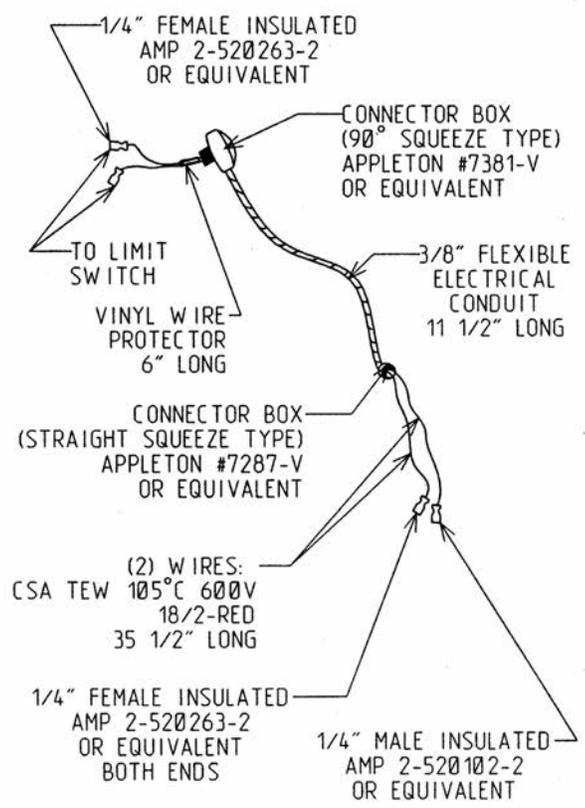
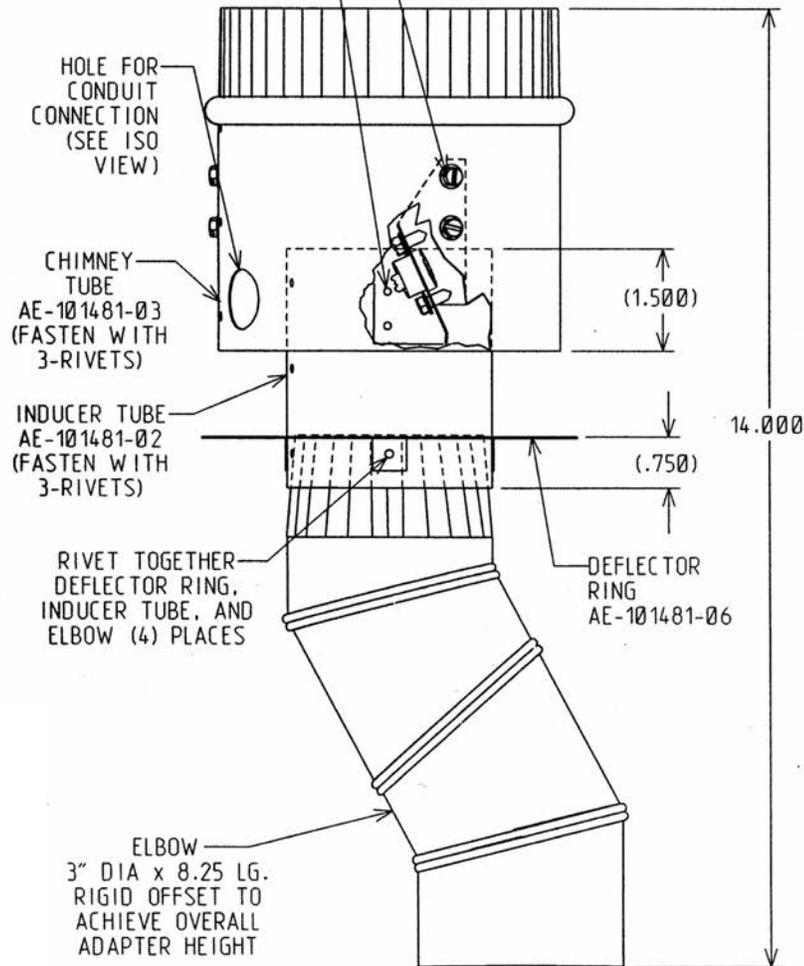
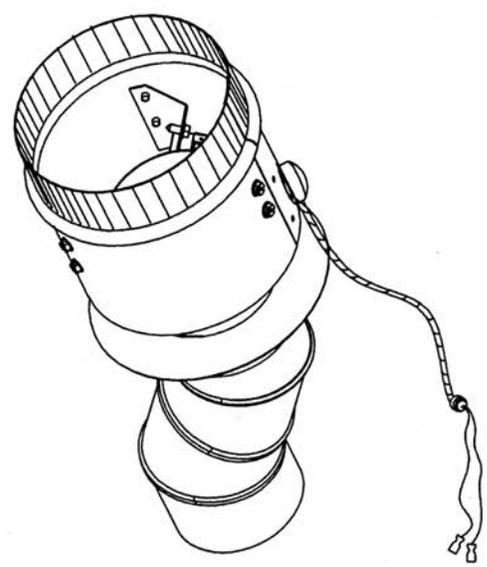
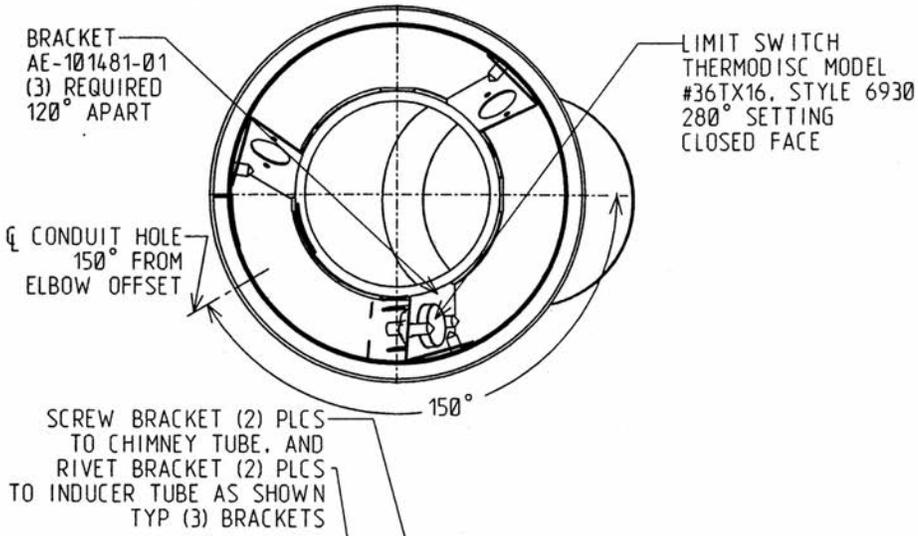
Note: Size for two-stage appliances based on minimum input-rate.

INSTALLATION

1. Disconnect electrical power to the furnace.
2. Turn off gas supply.
3. Remove knockout on furnace top panel.
4. Insert wiring leads through the knockout opening.
5. Install Chimney Vent Adapter on top of furnace flue collar.
6. Adjust Chimney Adapter so that cooling coil, if used, does not interfere.
7. Attach straight conduit connector to the knockout opening on furnace top-plate .
8. Remove one lead from rollout switch and use the female lead of the adapter to replace it.
9. Insert male lead of adapter wiring into disconnected rollout switch lead.
10. Use wire tie to route all wiring away from areas of excessive heat.
11. Complete the venting installation per NFGC guidelines.
12. Turn on gas supply.
13. Reconnect power supply.

RXGW-B01 WIRING DIAGRAM (TYPICAL)





TESTING

1. Check water heater and furnace draft hoods for spillage after 5 minute operation
2. Disconnect electrical power to the furnace
3. Remove B-vent connector from chimney adapter
4. Jumper pressure switch terminals to bypass switch and allow furnace to operate if pressure switch opens.
5. Restore electrical power and adjust thermostat to call for heat.
6. Allow furnace to operate for a period of 2 minutes, then block chimney adapter outlet 100%. Furnace should shutoff within 3 minutes.
7. **REMOVE JUMPER WIRE FROM PRESSURE SWITCH!!**
8. Remove blockage and reconnect Type-B vent connector to chimney adapter
9. Wait 5 minutes, then manually reset chimney adapter temperature switch.



99% Winter Design Temperatures for the Contiguous United States
From the National Fuel Gas Code Z223.1-112

CHIMNEY INSPECTION CHART

For additional requirements, refer to the National Fuel Gas Code NFPA54/ANSI Z223.1 and ANSI/NFPA 211 Chimneys, Fireplaces, Vents, and Solid Fuel Burning Appliances in the USA.

