

# ACCESSORY KIT INSTALLATION MANUAL

## HIGH ALTITUDE APPLICATION CONVERSION 80% & 95% SINGLE-STAGE FURNACES

S1-1PS3301 / S1-1PS3302 / S1-1PS3306 / S1-1PS0037

FOR USE WITH MODELS: TG8S / TGLS / GG8S / GGLS / TG9S / GG9S / MG9S

### WARNING

*This conversion kit is to be installed by a qualified service agency in accordance with the 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 this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.*

### WARNING

*The conversion of new certified central heating gas appliances must conform to directions outlined in this instruction. Installation must be made in accordance with American National Standard National Fuel Gas Code, ANSI Z223.1-latest edition, unless superseded by local codes. For Canadian installations, the conversion shall be carried out in accordance with the requirements of the Provincial authorities having jurisdiction and in accordance with the CAN1-B149.1 and .2 installation codes.*

*The manufacturer accepts no responsibility for malfunctions due to improper conversions.*

## GENERAL

This instruction is intended for the conversion of new equipment only, for operation at altitudes greater than 5,000 ft. above sea level. Follow the basic unit installation instruction for all other aspects of the installation.

All units are equipped to operate up to 5,000 feet above sea level without a high altitude kit. Installations above 2,000 ft. must be field derated as required by the National Fuel Gas Code, ANSI Z223.1 (latest edition), or in Canada, CAN/CGA B149.1 or .2 and all other applicable local codes and utility requirements.

This instruction provides the necessary information to select and install the proper pressure switch for your specific application. This high altitude accessory includes a special switch and other items as detailed below.

### WARNING

*Improper installation, adjustment service, or maintenance can cause injury or property damage; therefore, only a qualified installer or qualified service personnel should perform this conversion.*

TABLE 1:Kit Contents

| COMMON PARTS             |                    |                  |
|--------------------------|--------------------|------------------|
| Description              | Part Number        | Quantity         |
| Conversion Label         | 035-11635-000      | 1                |
| Installation Instruction | 035-22079-001      | 1                |
| PRESSURE SWITCH          |                    |                  |
| Accessory Kit            | Switch Part Number | Pressure Setting |
| S1-1PS3301               | 024-35778-00*      | .60 IWG          |
| S1-1PS3302               | 024-35797-00*      | .70 IWG          |
| S1-1PS3306               | 024-35779-00*      | .90 IWG          |
| S1-1PS3307               | 024-35815-00*      | .80 IWG          |

\* May be any numeral 0-9.

## PRESSURE SWITCH

For installations below 5,000 ft., refer to furnace installation instructions to properly derate applications which do not require a pressure switch change. For applications above 5,000 feet, a pressure switch change is required to provide safe and reliable operation. Tables 2 & 3 indicate the correct pressure switch accessory for each unit model applied.

### WARNING

*Do not adjust the original pressure switch to allow operation at high altitude. Unsafe operation will result.*

**TABLE 2:**High Altitude Pressure Switch Usage 80% Furnaces

| INPUT (MBH)                                      | OUTPUT (MBH) | ACCESSORY PART NUMBER |
|--|--------------|-----------------------|
| Upflow / Horizontal & Downflow/Horizontal Models |              |                       |
| 40   | 32           | S1-1PS3301            |
| 60   | 48           | S1-1PS3301            |
| 80   | 64           | S1-1PS3301            |
| 100  | 80           | S1-1PS3302            |
| 120  | 92           | S1-1PS3301            |
| 130  | 104          | S1-1PS3302            |

**TABLE 3:**High Altitude Pressure Switch Usage 95% Furnaces

| INPUT (MBH)                                      | OUTPUT (MBH) | ACCESSORY PART NUMBER |
|--|--------------|-----------------------|
| Upflow / Horizontal & Downflow/Horizontal Models |              |                       |
| 40   | 38           | S1-1PS3307            |
| 60   | 57           | S1-1PS3306            |
| 80   | 76           | S1-1PS3307            |
| 100  | 95           | S1-1PS3302            |
| 120  | 114          | S1-1PS3302            |
| 130  | 123.5        | S1-1PS3302            |

The high altitude pressure switch should be changed by following this procedure

1. Remove the burner access door.
2. Note the location of the wires on the pressure switch and then disconnect them. Remove the hose from the pressure switch.
3. Remove the screws securing the pressure switch and remove it from the unit. Check that the new pressure switch kit is correct for your application (Refer to "Pressure Switch" Tables 2 & 3). Install the new pressure switch.
4. Replace the hose and wiring as originally connected.
5. Complete (fill-in) data as required on the conversion label. Install label onto any section of furnace door or cabinet that is accessible.
6. Replace the burner access door.