MODELS DLAS, DGAT AND DGAM

DLAS MODELS (No Coil Cabinet)  DGAT & DGAM MODELS (With Built-in Coil Cabinet)

For Installation In:
1. Manufactured (Mobile) Homes
2. Recreational Vehicles & Park Models
3. Modular Homes & Buildings

IMPORTANT: Only individuals having proven experience with this type of equipment should attempt to perform set-up. Proper furnace set-up and adjustment is the responsibility of the retailer/homeowner and is not covered under warranty.

FURNACE SET-UP CHECK LIST
- Has roof jack crown been correctly installed?
- Has furnace gas valve and burner orifice been correctly converted for L.P. gas where applicable?
- Has furnace gas valve been de-rated for altitudes above 2000 feet where applicable?
- Is gas line outlet pressure properly set for fuel type? (natural gas is 3.5” W.C.; L.P. is 10” W.C.)
- Is primary air properly adjusted per installation instructions?
- Is cross-over duct installed per home builder and UPG installation instructions?
- Has furnace been operated through a complete heating cycle?

WARNING
Improper installation, adjustment, service or maintenance can cause injury or property damage. Please refer to all the instructions of this manual for proper installation procedures. Improper installation will void the warranty.

The furnace shall be installed so the electrical components are protected from water.

The furnace is not to be used for temporary heating of buildings or structures under constructions.

Do not test the fuel system at more than 14 inches water column after furnace has been connected to the fuel line. Such testing may void the warranty. Any test run above 14 inches water column may damage the furnace control valve which could cause an explosion, fire, or asphyxiation.

WARNING
Improper installation may damage equipment, can create a shock hazard, and will void the warranty.

NOTE: The words “Shall” or “Must” indicate a requirement which is essential to satisfactory and safe product performance.

The words “Should” or “May” indicate a recommendation or advice which is not essential and not required but which may be useful or helpful.

IMPORTANT: These instructions are primarily intended to assist qualified individuals experienced in the proper installation of heating and/or air conditioning appliances. Some local codes require licensed installation service personnel for this type of equipment. Read all instructions carefully before starting the installation.
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# Furnace Specifications

## DGAM — Automatic Ignition — with Built-in Coil Cabinet — 4 Ton - A/C Ready

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Factory Equipped for use with:</th>
<th>Input/BTUH</th>
<th>Output/BTUH</th>
</tr>
</thead>
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<tr>
<td>DGAM056BDF</td>
<td>NATURAL GAS</td>
<td>56,000</td>
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<tr>
<td>DGAM075BDF</td>
<td>NATURAL GAS</td>
<td>75,000</td>
<td>61,000</td>
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</table>

## DGAT — Automatic Ignition — with Built-in Coil Cabinet — 3 Ton - A/C Ready

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<th>Factory Equipped for use with:</th>
<th>Input/BTUH</th>
<th>Output/BTUH</th>
</tr>
</thead>
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<tr>
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<td>NATURAL GAS</td>
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<td>46,000</td>
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<tr>
<td>DGAT070BDF</td>
<td>NATURAL GAS</td>
<td>70,000</td>
<td>57,000</td>
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<td>DGAT090BDF</td>
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## DLAS — Automatic Ignition — Heating Only — No Coil Cabinet

<table>
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<th>Factory Equipped for use with:</th>
<th>Input/BTUH</th>
<th>Output/BTUH</th>
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<tr>
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<tr>
<td>DLAS075BDF</td>
<td>PROPANE</td>
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<td>62,000</td>
</tr>
</tbody>
</table>

## Electrical Specifications

- **Electrical Power Supply**: 120 Volts — 60 Hz — 1 Phase
- **Breaker or Fuse**: 15 Amp
- **Thermostat Circuit**: 24 Volt — 60 Hz — 40 VA
- **Nominal Anticipator Setting**: .50
- **Gas Valve Inlet**: 1/2” NFPT

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**Figure 1** - DLAS, DGAT and DGAM Series Furnace Dimensions
INSTALLATION STANDARDS

CODE COMPLIANCE
The installer shall familiarize himself with and comply with all local codes and regulations which govern the installation of this appliance. Local codes and regulations shall take precedent over these regulations where applicable. In lieu of local codes, the appliance shall be installed in accordance with one or more of the following standards.

Manufactured homes in the U.S.A.:
3. Unit electrical wiring and grounding shall comply with current CSA standard C22.2 No.148/CAN/CSA-Z240.6.2 – Electrical Requirements for recreational vehicles.

Manufactured homes in Canada:
1. CAN/CGA B149 for gas fired furnaces.
2. CSA 22.1 Canadian Electrical Code part 1 for all electrical field wiring.

Recreational Vehicles in U.S.A.:
2. Unit electrical wiring and grounding shall comply with current CSA standard C22.2 No.148/CAN/CSA-Z240.6.2 – Electrical Requirements for recreational vehicles.

Recreational Vehicles in Canada:
1. Unit installation shall comply with current CSA standard CAN/CGA-Z240.4.2 – Installation Requirements for Propane Appliances and Equipment in Recreational Vehicles.
2. Unit electrical wiring and grounding shall comply with current CSA standard C22.2 No.148/CAN/CSA-Z240.6.2 – Electrical Requirements for recreational vehicles.

HIGH ALTITUDE INSTALLATION
For elevation above 2,000 feet, derate furnace orifice 4% for each 1,000 feet of elevation above sea level. Derating is accomplished by reducing the orifice size. See Derating Chart for orifice size.

⚠️ CAUTION:
- Never attempt to alter or modify this furnace or any of its components.
- Never attempt to repair damaged or inoperable components. Such action could cause unsafe operation, explosion, fire and/or asphyxiation.
- If a malfunction has occurred, or if you feel that the furnace is not operating as it should, contact a qualified service agency or gas utility for assistance.

MINIMUM FURNACE CLEARANCES
Access for servicing is an important factor in the location of any furnace. A minimum of 24 inches should be provided in front of the furnace for access to the heating elements and controls. This access may be provided by a closet door or by locating the furnace 24 inches from a facing wall or partition.

These furnaces are design certified for the following minimum clearances from combustible material in alcove or closet installation:

<table>
<thead>
<tr>
<th>TABLE 1 — Minimum Clearances</th>
</tr>
</thead>
<tbody>
<tr>
<td>BACK</td>
</tr>
<tr>
<td>SIDE</td>
</tr>
<tr>
<td>FRONT</td>
</tr>
<tr>
<td>TOP</td>
</tr>
<tr>
<td>ROOF JACKET</td>
</tr>
<tr>
<td>DUCT</td>
</tr>
</tbody>
</table>
RETURN AIR REQUIREMENTS

CLOSET INSTALLATIONS

Additional Requirements

Additional requirements for floor and ceiling return system for closet installed sealed combustion heating appliance are given in the next paragraph.

Floor or Ceiling Return Air System

Floor or ceiling return air system for closet installed direct vent forced air heating appliance.

Listed in the next paragraph are the conditions to be met by Mobile Home Manufacturers to have U.L. acceptance of in-floor or ceiling return air systems of closet installed direct vent forced air heating appliances for Mobile Homes to be sold in the United States.

1. The return-air opening into the closet, regardless of location, is to be sized not less than specified on the appliance’s rating plate.

2. If the return-air opening is located in the floor of the closet (versus the vertical front or side wall), the opening is to be provided with means to prevent its inadvertent closure by a flat object placed over the opening.

3. The cross-sectional area of the return duct system (when located in the floor or ceiling of the mobile home) leading into the closet is to be not less than that of the opening specified on the appliance’s rating plate.

4. The total free area of openings in the floor or ceiling registers serving the return-air duct system is to be not less than 150% of the size of the opening specified on the appliance’s rating plate. At least one such register is to be located where likelihood of its being covered by carpeting, boxes, and other objects is minimized.

5. Materials located in the return duct system have a flame spread classification of 200 or less.

6. Non-combustible pans having one-inch upturned flanges are located beneath openings in the floor return duct system.

7. Wiring materials located in the return duct system conform to Article 300-22 (b&c) of the National Electric Code (ANSI C1 / NFPA-70).

8. Gas piping is not run in or through the return duct system.

9. The negative pressure in the closet as determined by test with the air-circulating fan operating at high heating speed and the closet door closed is to be not more negative than minus 0.05-inch water column.

10. For floor return systems, the mobile home manufacturer or installer shall affix a prominent marking on or near the appliance where it is easily read when the closet door is open. The marking shall read:

| WARNING |
| HAZARD OF ASPHYXIATION |
| DO NOT COVER OR RESTRICT FLOOR OPENING, or equivalent. |

AIR DISTRIBUTION SYSTEMS

For proper air distribution, the supply duct system shall be designed so that the static pressure does not exceed the listed static pressure rating on the furnace rating plate.

Three typical distribution systems are illustrated in Figure 2.

Location, size and number of registers should be selected on the basis of best air distribution and floor plan of the home.

The Air Temperature Rise is to be adjusted to obtain a temperature rise within the range(s) specified on the furnace rating plate.

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**FIGURE 2 — AIR DISTRIBUTION SYSTEMS**

- **A** Single trunk duct
- **B** Dual trunk duct with crossover connector
- **C** Transition Duct with Branches

* B
  1. Crossover Duct must be centered directly under furnace.
  2. Use 12” Diameter Round or equivalent insulated flex-duct only.
  3. Terminate Flex-duct (opposite furnace) in the center of the trunk duct.
  4. Flex-duct material must be pulled tight — No Loops or unnecessary dips — Air Flow may be impeded.
As an option to the lower grill, an undercut of 2 1/2" will provide 50 Sq. In. of free area.

**FIGURE 3 — CLOSET TO DOOR CLEARANCE — 6" OR GREATER**

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**Furnace to Closet Door Clearance — Greater than 6 Inches**

The closet door **MUST** have a minimum of **250 Square Inches** of free area in the upper half of the door.

If opening for return air is located in the floor or sidewalls and below the top of the furnace casing:

1. 6 inches minimum clearance must be provided on side where return is located, and
2. 6 inches minimum clearance must be maintained from the front of furnace.

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**Return Air Grille Part No.**

7900-286P/A — Almond
7900-287P/A — White

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**CLOSET**

250 SQ. IN. MINIMUM FREE AREA

**FURNACE**

50 SQ. IN. MINIMUM FREE AREA

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**FIGURE 4 — FURNACE TO CLOSET DOOR CLEARANCE — 1" TO 6"**

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**Furnace to Closet Door Clearance — Greater than 1 Inch and Less than 6 Inches**

1. The closet door **MUST** have a minimum of **250 Square Inches** of free area in the upper half of the door and a minimum of **50 Square Inches** of free area in the lower area of the door.

   The lower closet door grille may be omitted if an undercut of 2 1/2 inches is provided in the door.

2. A fully louvered closet door **MUST** have a minimum of **250 Square Inches** of free area in the upper half of the door.

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**Return Air Closet Door Part No.**

7900-7771/C — White

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**CLOSET**

250 SQ. IN. MINIMUM FREE AREA

**FURNACE**

50 SQ. IN. MINIMUM FREE AREA

---

**FIGURE 5 — FURNACE TO CLOSET DOOR CLEARANCE — LESS THAN 1"**

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**Furnace to Closet Door Clearance — Less than 1 Inch**

The closet door **MUST** have three return air grilles. The total free area of the two **upper** grilles must be a minimum of **250 Square Inches**. The total free area of the **lower** grille **MUST** be a minimum of **50 Sq. In.**

Each grille **MUST BE ALIGNED** directly opposite the corresponding return air grille of the furnace door.
### ROOF JACKS

**WARNING**

FAILURE TO FOLLOW ALL VENTING INSTRUCTIONS CAN RESULT IN FIRE ASPHYXIATION, OR EXPLOSION.

**CAUTION:** Only use the appropriate roof jack. See Figures 6 & 7 for correct application.

Do not exceed the maximum height as determined from Figures 2 & 3. Installer should allow an additional 1-1/2” travel before the flue pipe assembly is fully extended against the built-in stop. This provides an additional safeguard against the flue assembly being pulled from the roof jack during transportation or other stress conditions.

### EXISTING FURNACE REPLACEMENT

If this furnace replaces an existing furnace, do the following:

1. If a 2nd roof, roof cap or addition has been made to the existing roof of the home, remove the old roof jack completely!... to avoid the possibility of an improperly installed pipe or gaps in the old roof jack, INSTALL A NEW ROOF JACK. Your ceiling and roof height will determine the correct roof jack to use. Refer to the vent selection table, of the furnace installation instructions.

2. After unpacking the roof jack, check the rain caps. Insure they are not damaged, tilted or crooked. Do not twist, crush or sit on the roof caps during installation. Damaged roof caps will cause improper furnace operation. The furnace will not heat properly and could result in explosion.

3. Before inserting the vent pipe into the furnace top, inspect the furnace flue and combustion air opening for debris or insulation which might have fallen in during pre-installation steps. Do not proceed unless all debris have been cleaned out or removed.

4. After installing roof jack on furnace top collar, check to make sure there is no gap in back or side between the pipe collar and the furnace casing top. If necessary to prevent excessive air leakage, the installer should seal joints in the combustion air tube with aluminum type or other suitable sealant.

### NEW HOME INSTALLATION

If this furnace is installed on a new home do the following:

1. Inspect the furnace top collars for signs of insulation or ceiling debris which might have fallen in during cutting of the ceiling and roof holes. Remove all debris before continuing.

2. After unpacking the roof jack, check the rain caps. Insure they are not damaged, tilted or crooked. Do not twist, crush or sit on the roof caps during installation. Damaged roof caps will cause improper furnace operation. The furnace will not heat properly and could result in explosion.

3. Before inserting the vent pipe into the furnace top, inspect the furnace flue and combustion air opening for debris or insulation which have fallen in during pre-installation steps. Do not proceed unless all debris have been cleaned out or removed.

4. After installing roof jack on furnace top collar, check to make sure there is no gap in back or side between the pipe collar and the furnace casing top. If necessary to prevent excessive air leakage, the installer should seal joints in the combustion air tube with aluminum type or other suitable sealant.

### INSTALLATION IN SNOW REGIONS

When the combustion air pipe inlet is covered or blocked with snow, the furnace will not operate properly due to the depleted combustion air supply.

Therefore, if the furnace will be located in regions where snow accumulation on the roof exceeds 7” or in H.U.D. Snow Load Zones, a roof jack extension (Part No. 768086541) is recommended.

### LOCATING AND CUTTING ROOF JACK OPENING

To facilitate the proper installation of the roof jack, it is very important that the roof jack opening in the ceiling and roof be on the same vertical center line as the furnace flue collar. See Figure 8.

Mark this location on ceiling and scribe a circle with a 5” radius (10” diameter) around this mark. Cut opening for roof jack through ceiling and roof. (If furnace was installed during construction, cover furnace and flue opening to prevent debris from entering flue when hole is cut for roof jack.)

### INSTALLING ROOF JACK IN ROOF

(See Figure 6 & 7 for Dimensional requirements.)

Insert roof jack into opening in the roof.

The roof jack should be secured to the furnace before roof flange (flashing) is secured to the roof. This will insure a better alignment of the flue pipe and furnace flue collar. Caulk around and under roof flange to provide a water tight seal, before securing roof jack flashing to roof.
FIGURE 6 – STANDARD ROOF JACK

**SWIVEL FLASHING**

- Adjusts from 0/12 to 5/12 Pitch

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**SLANT FLASHING**

- 3/12 Pitch

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<table>
<thead>
<tr>
<th>SWIVEL FLASHING ADJUSTS FROM 0/12 TO 5/12 PITCH</th>
<th>SLANT FLASHING 3/12 PITCH</th>
<th>DLAS &amp; COAS Furnaces</th>
<th>DGAT, DGAM, COAT, CGAT Furnace</th>
</tr>
</thead>
<tbody>
<tr>
<td>4000-7101/C</td>
<td>4000-6101/A</td>
<td>70” to 79”</td>
<td>86” to 95”</td>
</tr>
<tr>
<td>4000-7121/C</td>
<td>4000-6121/A</td>
<td>75” to 86”</td>
<td>91” to 102”</td>
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<tr>
<td>4000-7141/C</td>
<td>4000-6141/A</td>
<td>83” to 104”</td>
<td>99” to 120”</td>
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<tr>
<td>4000-7151/C</td>
<td>4000-6151/A</td>
<td>90” to 116”</td>
<td>106” to 132”</td>
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<tr>
<td>4000-7171/C</td>
<td>4000-6171/A</td>
<td>127” to 157”</td>
<td>143” to 173”</td>
</tr>
</tbody>
</table>

**IMPORTANT**

- Seal roof jack flashing to the roof jack and roof.
- This is the installer’s responsibility.

- The end of the upper portion of roof jack need **not** extend below the ceiling.

- Caulk carefully all around swivel joint with sealant supplied by furnace manufacturer.

**FIGURE 6 – STANDARD ROOF JACK**
### Installation Dimensions

<table>
<thead>
<tr>
<th>SWIVEL FLASHING ADJUSTS FROM 0/12 TO 5/12 PITCH</th>
<th>SLANT FLASHING 3/12 PITCH</th>
<th>DLAS &amp; COAS Furnaces</th>
<th>DGAT, DGAM, COAT, CGAT Furnace</th>
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<td>4000-8101/C</td>
<td>4000-9161/A</td>
<td>A Adjustable Height</td>
<td>Installation Dimensions</td>
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<td>4000-8181/C</td>
<td>4000-9181/A</td>
<td>85” to 101”</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>99” to 129”</td>
<td>115” to 145”</td>
</tr>
</tbody>
</table>

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**Figure 7 - Roof Jack with Removable Crowns**

- **Swivel Flashing**: Adjusts from 0/12 to 5/12 pitch
- **Slant Flashing**: 3/12 pitch
- **Caulk Carefully All Around Swivel Joint with Sealant Supplied by Furnace Manufacturer.**
- **The End of Upper Portion of Roof Jack need Not extend below the ceiling.**
- **Important**: Seal Roof Jack flashing to the Roof Jack and Roof. This is the Installer’s Responsibility.

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**DLAS & COAS Models**

- Adjustable Height: 59-1/2”
- Dimensions: 76”

**DGAT, DGAM, COAT & CGAT Models**

- Adjustable Height: 85” to 101”
- Dimensions: 101” to 117”
These duct connectors are for connecting the furnace to an under the floor supply duct system. The furnace may be installed on combustible flooring without a separate sub base.

**DUCT CONNECTORS**

**FIGURE 8 — DUCT CONNECTOR DIMENSIONS**

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<tr>
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<td>12-1/4&quot;</td>
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</tbody>
</table>

<table>
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<td>7990-6281</td>
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<tr>
<td>7990-6301</td>
<td>10-1/4&quot;</td>
</tr>
<tr>
<td>7990-6321</td>
<td>12-1/4&quot;</td>
</tr>
</tbody>
</table>
INSTALLATION OF SCREW ATTACHMENT DUCT CONNECTOR

1. Make floor cut out as shown in Figure 8.

2. Determine the depth of the floor cavity from the surface of the floor to the top of the supply air duct and select the appropriate duct connector from the chart.

3. Place locating bracket (supplied with the duct connector) to the back edge of the floor opening. See Figure 9.

4. Apply a water based duct sealant to the 1/2" supply duct attachment flange of the duct connector.

5. Determine which of the four positions the duct connector best centers over the supply duct and insert it through the floor cutout.

6. When properly aligned with the supply duct, secure the duct connector to the floor with nails, flat head screws or staples.

7. Use screws as required to secure the duct connector to the supply duct.

8. Cut out the opening to the supply duct. \textbf{If sealant was not used, the installer should tape the mating flanges to provide a good air seal.}

NOTE: Duct sealant and tape must be U.L. classified as meeting HUD standard 3280.715 and U.L. standard 181.
INSTALLATION OF THE FURNACE

1. Remove the front panels and set the furnace onto the duct connector. Slide it back until the rear of the unit engages the locator bracket.
2. Secure the front of the furnace with two screws at the mounting holes provided.
3. Secure the top of the furnace to a structural member using screw through the strap at the back of the furnace. Strap may be moved to any of the holes located along the top back of the furnace. Installer may provide an equivalent method, such as screws through the casing side.

CONNECTING ROOF JACK TO FURNACE

⚠️ CAUTION: The inner flue pipe must be present. It is mandatory that the combustion air pipe and flue pipe assembly be fully engaged. The combustion air pipe MUST be securely fastened to the furnace with a sheet metal screw in the hole provided.

Use a 3/2” blunt or sharp end sheet metal screw to fasten roof jack combustion air pipe to furnace combustion air collar. Screw hole is provided in the pipe and collar. Excessively long screws may extend to flue pipe and puncture it. Screws are not to exceed 1 1/2” in length.

NOTE: Combustion air tube and flue pipe are part of the same assembly. Only the combustion air tube need be fastened to the furnace.

1. Check to be certain that the flue pipe and combustion air tube are present.
2. Pull the telescoping flue tube and combustion air tube assembly down from the roof jack. Slide the flue tube/combustion air tube assembly down firmly over the furnace flue outlet and combustion air collar. Insure that the back, side and front of combustion air tube collar is fully engaged and is in contact with gasket. Fasten the combustion air tube to the furnace combustion air collar using a 1/2 inch sheet metal screw. (Screw hole provided in combustion air tube and furnace combustion air collar. (See Figure 12.)

It is mandatory that the combustion air and flue tube assembly be fully engaged at back sides and front, and combustion air tube securely fastened to the furnace with a sheet metal screw in the screw hole provided.
CEILING RINGS
The ceiling ring is to meet fire stop requirements. Accessory Ceiling Ring (P/N 7660-2841) may be used, (See Figure 6) or the mobile home manufacturer or the installer may use other approved methods to stop fire.
If required, three (3) sections of Accessory Ring may be used as shown in Figure 13 to provide closer clearance around roof jack.

ELECTRICAL WIRING

⚠️ CAUTION:
TO INSTALLER: Incoming power must be polarized. Observe color coding.

⚠️ WARNING
SHOCK HAZARD - DISCONNECT ELECTRICAL POWER SUPPLY TO THE UNIT BEFORE SERVICING TO AVOID THE POSSIBILITY OF SHOCK INJURY OR DAMAGE TO THE EQUIPMENT.

CONNECT POWER SUPPLY WIRES
1. Remove the field wiring cover.
2. Insert 115 volt wires through the large plastic bushing on the left side of the furnace (See Figure 14). If conduit is used it should be secured to the control box.
3. Connect the “hot” wire to the BLACK pigtail lead, and the “neutral” wire to the WHITE pigtail lead. Secure all connections with suitable wire nuts and wrap with electrical tape.
4. Connect the “ground” wire to the grounding screw.
5. Reinstall the control panel cover and secure mounting screw.

CONNECT THERMOSTAT WIRES
1. Insert 24 volt wires through the small plastic bushing just above the control panel.
2. Connect the thermostat wires to the furnace low voltage pigtails (See Figure 14).
3. Connect low-voltage circuit to the wall thermostat pigtails.
A separate 120 V.A.C. supply circuit must be used for the furnace. The circuit should be protected by a 15 amp fuse or circuit breaker.

NOTE:
Cover should not be removed except when servicing the controls.

This screw does not need to be removed in order to remove the field wiring cover. (just loosen).

FIGURE 13 — CEILING RINGS

FIGURE 14 — FIELD WIRING
Avoid locations where the thermostat could be subject to drafts from outside, or exposed to direct light from lamps, sun, fireplaces, etc., or affected by air from a duct register blowing directly on the thermostat.

The wall thermostat should be located 52 to 66 inches above the floor. The preferred location is on an inside wall situated in an area with good air circulation, and where the temperature will be reasonably representative of other living areas the thermostat is controlling.

**FIGURE 15 - THERMOSTAT WIRING FOR DGAT AND DGAM SERIES**

**FIGURE 16 - THERMOSTAT WIRING FOR DLAS SERIES**
FIGURE 17 - WIRING DIAGRAM FOR DGAT SERIES
FIGURE 18 - WIRING DIAGRAM FOR DGAM SERIES
INSTALLATION AND CHECKING OF GAS LINE

Gas Supply piping must be sized in accordance with the recommendations contained in “American National Standard Institute Installation of Gas Piping” ANSI Z223.1 unless local codes or regulations state otherwise.

Materials used and pipe sizing for U.S. mobile homes must comply with requirements contained in Mobile Homes A119.1, Recreational Vehicles A119.2 and H.U.D. Title 24, Section 3280.705 and any local or state codes.

NOTE: The gas line inlet on the gas valve is 1/2 - 1 4 N.P.T. The gas line may be installed through the furnace floor or furnace side to the gas valve.

⚠️ CAUTION: To install gas line and to connect it to the gas valve, care must be taken to hold gas valve firmly to prevent misalignment of the burner orifice, or to damage gas valve which could result in improper heating, explosion, fire or asphyxiation.

-do not use excessive pipe sealant on pipe joints. Pipe sealant, metal chips or other foreign material that could be deposited in the inlet of the gas valve, when gas pipe is installed or carried through the gas piping into the gas valve inlet after installation, may cause the gas valve to malfunction and could result in possible improper heating, explosion, fire or asphyxiation. Also, pipe sealant must be resistant to Propane gas.

Where regulations require, a main shut-off valve shall be installed externally of furnace casing. After piping has been installed, turn gas on and check all connections with a leak detector or soap solution. NEVER USE OPEN FLAME TO TEST FOR GAS LEAKS AS FIRE OR EXPLOSION COULD OCCUR.

Do not test the fuel system at more than 14” W.C. after furnace has been connected to fuel line. Such testing could void the warranty. Any test run above 14” W.C. may damage furnace control valve which could cause an explosion, fire or asphyxiation.

A dirt leg may be required by some local codes to trap moisture and contaminations.

For NAT. gas operation, the furnace is designed for 7” W.C. inlet gas pressure. Pressure to main burner is then reduced to 3 1/2” W.C.

For Propane gas operation, the furnace is designed for 11” W.C. inlet gas pressure. Pressure to main burner is then reduced to 10” W.C.

⚠️ CAUTION: If the gas input to the furnace is too great because of excessive gas pressure, wrong size orifice, high altitude, etc., the burner flame will be sooty and may produce carbon monoxide, which could result in unsafe operation, explosion, and/or fire or asphyxiation.

Observing Burner Operation

1. Observe burner to make sure it ignites. Observe color of flame. On natural gas the flame will burn blue with appreciably yellow tips. On Propane gas a yellow flame may be expected. If flame is not the proper color call a qualified serviceman for service.

2. Let furnace heat until blower cycles on.

3. Turn thermostat down.

4. Observe burner to make sure it shuts off.

5. Let the furnace cool and blower cycle off.

⚠️ WARNING

Should overheating occur, or the gas supply fail to shut off, shut off the manual gas valve to the furnace and allow burner to run until furnace cools down and blower shuts off before shutting off the electrical supply.

If any abnormalities are observed when checking for correct operation, such as burner failing to ignite or to turn off, sooty flame, etc., call your nearest authorized service technician as shown in the Service Center List included in the home owner envelope with the furnace.

Combustion Air

In order for the burner flame to burn efficiently, it must receive adequate combustion air.

The amount of combustion air can be changed by operating the combustion air adjustment rod located beneath the gas valve.

The adjustment rod is set at an “average” position at the factory and may be properly set for many applications.

However, the amount of combustion air required will vary depending on altitude, actual BTU. content of the gas being used, gas pressure, conversion to another gas, and other variable factors.

Therefore, it is essential that the burner flame be observed and any necessary adjustments are made before the furnace is put into service at the final home site. Adjusting the burner air is considered part of the normal home set-up procedure and is the responsibility of either the home seller or buyer, depending on their agreement. Adjustments of this type are not covered by the warranty.
CAUTION: Combustion air adjustments must be made only by a qualified technician. Improper air adjustment may cause unsafe operation, explosion or asphyxiation.

To adjust the combustion air:
1. To light and operate furnace see label inside lower furnace door.
2. Allow the burner to burn for about 1 MINUTE.
3. Look through the observation window and observe the appearance of the flame.
4. On natural gas, the base of the flame should be blue but the tips of the flame will be yellow. (See Figure 19.)
5. On propane gas, almost all of the flame will be yellow although some blue should still be present at the base of the flame next to the end of the burner. (See Figure 20.)
6. If the flame is too yellow, the combustion air should be increased. If the flame is excessively blue (no yellow) the combustion air should be decreased.
7. To adjust the combustion air, loosen the lock screw holding the combustion air rod in place. Push in on the rod to increase the combustion air. Pull out on the combustion air rod to decrease the combustion air. Tighten lock screw after adjustment is made. Do not completely close air damper at any time. Complete closure of air damper to burner will result in improper operation. See caution above.

**FIGURE 19 - NATURAL GAS FLAME APPEARANCE**

**FIGURE 20 - PROPANE GAS FLAME APPEARANCE**

If Furnace Fails to Operate Properly
1. Check setting of thermostat - and position of HEAT/COOL switch if air conditioning is installed. If a setback type thermostat is employed be sure that the thermostat is in the correct operating mode.
2. Check to see that electrical power is ON.
3. Check to see that the knob on the gas control valve is in the full ON position.
4. Make sure filters are clean, return grilles are not obstructed, and supply registers are open.
5. Be sure that furnace flue piping is open and unobstructed.

If the cause for the failure to operate is not obvious, do not attempt to service the furnace yourself. Call a qualified service agency or your gas supplier.
FINAL PROCEDURE

INSTALL FURNACE DOORS
Install the bottom door first by holding the door flush against the casing and sliding the door down until the door top and bottom flanges rest in the casing channels. Then install the upper door in the same manner.

FINISH AND TRIM
Alcove and Closet Installations may now be finished and trimmed as necessary. Leave enough gap above upper furnace door to allow it to be lifted and removed.

FURNACE AND AIR CONDITIONER INSTALLATIONS
In an air conditioner is installed which does not use the blower for air distribution and operates completely independent of the furnace, the thermostat system must have an interlock to prevent the furnace and air conditioner form operating at the same time. This interlock system usually contains a heat-cool switch which must be turned to either HEAT or COOL to activate either heating or cooling operation, or a positive OFF switch on the cooling thermostat.

When used in connection with a cooling unit the furnace shall be installed parallel with or on the upstream side of the cooling unit to avoid condensation in the heat exchanger.

For installations with a parallel flow arrangement, the furnace must be equipped with a damper to prevent cold air from being discharged up around the heat exchanger. Cold air causes condensation inside the exchanger and can cause it to rust out which can allow products of combustion to be circulated into the living area by the furnace blower resulting in possible asphyxiation. An air flow activated automatic damper, P/N 7900-6771, is available from furnace manufacturer. See Figure 21.

NOTE: See label inside lower front door for conversion and lighting instructions. Obtain a temperature rise within the ranges specified on the name plate.
# High Altitude Deration Chart

## DGAM, DGAT, DLAS Series

### Natural Gas

<table>
<thead>
<tr>
<th>Elevation</th>
<th>Orifice Dia.</th>
<th>Drill Size</th>
<th>Part #</th>
<th>Orifice Dia.</th>
<th>Drill Size</th>
<th>Part #</th>
<th>Orifice Dia.</th>
<th>Drill Size</th>
<th>Part #</th>
<th>Orifice Dia.</th>
<th>Drill Size</th>
<th>Part #</th>
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### Propane Gas

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<th>Drill Size</th>
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<th>Drill Size</th>
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Adjust air shutter for correct flame appearance.
Table shows 4% Input Reduction per 1,000 feet Elevation.
# DGAM, DGAT, & DLAS SERIES
## HSI GAS DOWN FLOW FURNACE

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<th>Used On Model</th>
<th>Part Number</th>
<th>Description</th>
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<td>024-27666-000</td>
<td>Pressure Switch</td>
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<tr>
<td>2</td>
<td>All</td>
<td>028-11957-000</td>
<td>Silicone Tube</td>
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<td>3</td>
<td>All</td>
<td>7990-3591</td>
<td>Limit Switch (Upper)</td>
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<tr>
<td>4</td>
<td>All</td>
<td>7990-6501</td>
<td>Booster Assembly (Includes Motor)</td>
</tr>
<tr>
<td>5</td>
<td>All</td>
<td>7990-314P</td>
<td>Booster Motor - 3000 RPM</td>
</tr>
<tr>
<td>6</td>
<td>All</td>
<td>7990-401</td>
<td>Cover (Control Box)</td>
</tr>
<tr>
<td>7</td>
<td>All</td>
<td>031-01910-000</td>
<td>Integrated Control</td>
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<tr>
<td>8</td>
<td>All</td>
<td>7990-328P</td>
<td>Gas Valve (24V .3 Amp)</td>
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## BLOWER PARTS

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<td>DGAT, DLAS</td>
<td>7966-311P</td>
<td>Motor</td>
</tr>
<tr>
<td></td>
<td>(057, 070, 075)</td>
<td>1468-212P</td>
<td>Motor</td>
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<tr>
<td>30</td>
<td>All</td>
<td>7966A530</td>
<td>Scroll</td>
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<tr>
<td>31</td>
<td>All</td>
<td>2702-4091</td>
<td>Motor Mount(3/Pkg.)</td>
</tr>
<tr>
<td>32</td>
<td>All</td>
<td>7680-348</td>
<td>Connector Plug</td>
</tr>
<tr>
<td>33</td>
<td>All</td>
<td>7670-6391</td>
<td>Motor Clamp</td>
</tr>
<tr>
<td>34</td>
<td>090</td>
<td>1499-4461</td>
<td>Run Capacitor</td>
</tr>
<tr>
<td></td>
<td>DGAM</td>
<td>1499-4471</td>
<td>Run Capacitor</td>
</tr>
<tr>
<td>35</td>
<td>All</td>
<td>1472-2751</td>
<td>Blower Wheel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(10 5/8 Dia. x 7 1/8 x 1/2)</td>
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</tbody>
</table>

## BURNER ORIFICE CHART

<table>
<thead>
<tr>
<th>Model</th>
<th>056</th>
<th>070</th>
<th>075</th>
<th>090</th>
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<tbody>
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<td>Nat.</td>
<td>9951-1361</td>
<td>9951-1541</td>
<td>9951-1611</td>
<td>9951-1801</td>
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<td>LP</td>
<td>9951-0821</td>
<td>9951-0931</td>
<td>9951-0981</td>
<td>9951-1061</td>
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</tbody>
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**NOTE:** All parts with three digit suffix numbers are “Special Order” Parts. These parts are subject to factory availability and require extra time for delivery.