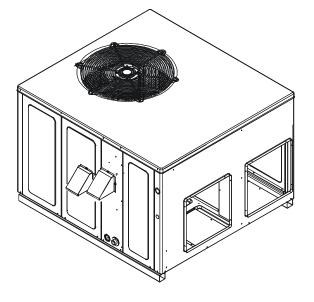
DP3GM 13.4 SEER2 "M" SERIES WITH R-32 SINGLE PACKAGE GAS-ELECTRIC HEATING & COOLING UNIT



DO NOT BYPASS SAFETY DEVICES



Affix this manual and Users Information Manual adjacent to the unit.



RECOGNIZE THIS SYMBOL AS A SAFETY PRECAUTION.

These installation instructions cover the outdoor installation of self contained package air conditioners and heating units. See the Specification Sheets applicable to your model for information regarding accessories.

***NOTE:** Please contact your distributor or our website for the applicable Specification Sheets referred to in this manual.

This Forced Air Central Unit Design Complies With Requirements Embodied In The American National Standard / National Standard of Canada Shown Below.

ANSI Z21.47•CSA-2.3 Central Furnaces.



ONLY PERSONNEL THAT HAVE BEEN TRAINED TO INSTALL, ADJUST, SERVICE, MAINTENANCE OR REPAIR (HEREINAFTER, "SERVICE") THE EQUIPMENT SPECIFIED IN THIS MANUAL SHOULD SERVICE THE EQUIPMENT.

THIS EQUIPMENT IS NOT INTENDED FOR USE BY PERSONS (INCLUDING CHILDREN) WITH REDUCED PHYSICAL, SENSORY OR MENTAL CAPABILITIES, OR LACK OF EXPERIENCE AND KNOWLEDGE, UNLESS THEY HAVE BEEN GIVEN SUPERVISION OR INSTRUCTION CONCERNING USE OF THE APPLIANCE BY A PERSON RESPONSIBLE FOR THEIR SAFETY.

CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE EQUIPMENT.

THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SUPERVISION, SERVICE OR SERVICE PROCEDURES. IF YOU SERVICE THIS UNIT, YOU ASSUME **RESPONSIBILITY FOR ANY INJURY OR PROPERTY** DAMAGE WHICH MAY RESULT. IN ADDITION, IN JURISDICTIONS THAT REQUIRE ONE OR MORE LICENSES TO SERVICE THE EQUIPMENT SPECIFIED IN THIS MANUAL, ONLY LICENSED PERSONNEL SHOULD SERVICE THE EQUIPMENT. IMPROPER SUPERVISION, INSTALLATION, ADJUSTMENT, SERVICING, MAINTENANCE OR REPAIR OF THE EQUIPMENT SPECIFIED IN THIS MANUAL, OR ATTEMPTING TO INSTALL, ADJUST, SERVICE OR REPAIR THE EQUIPMENT SPECIFIED IN THIS MANUAL WITHOUT PROPER SUPERVISION OR TRAINING MAY RESULT IN PRODUCT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

Our continuing commitment to quality products may mean a change in specifications without notice. © 2022-2024 **DAIKIN COMFORT TECHNOLOGIES MANUFACTURING, L.P.** 19001 Kermier Road, Waller, TX 77484 www.daikincomfort.com



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REPLACEMENT PARTS

ORDERING PARTS

When reporting shortages or damages, or ordering repair parts, give the complete unit model and serial numbers as stamped on the unit's nameplate.

Replacement parts for this appliance are available through your contractor or local distributor. For the location of your nearest distributor, consult the white business pages, the yellow page section of the local telephone book or contact:

HOMEOWNER SUPPORT DAIKIN COMFORT TECHNOLOGIES MANUFACTURING, L.P. 19001 KERMIER ROAD WALLER, TEXAS 77484 855-770-5678

SAFETY INSTRUCTIONS

TO THE INSTALLER

Before installing this unit, please read this manual to familiarize yourself on the specific items which must be adhered to, including maximum external static pressure to unit, air temperature rise, minimum or maximum CFM and motor speed connections.

Keep this literature in a safe place for future reference.

WARNING

DO NOT CONNECT TO OR USE ANY DEVICE THAT IS NOT DESIGN CERTIFIED BY THE MANUFACTURER FOR USE WITH THIS UNIT. SERIOUS PROPERTY DAMAGE, PERSONAL INJURY, REDUCED UNIT PERFORMANCE AND/OR HAZARDOUS CONDITIONS MAY RESULT FROM THE USE OF SUCH NON-APPROVED DEVICES.



IF THE INFORMATION IN THESE INSTRUCTIONS IS NOT FOLLOWED EXACTLY, A FIRE OR EXPLOSIONS MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

- DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

- WHAT TO DO IF YOU SMELL GAS:

- DO NOT TRY TO LIGHT ANY APPLIANCE.
- DO NOT TOUCH ANY ELECTRICAL SWITCH; DO NOT USE ANY PHONE IN YOUR BUILDING.
- IMMEDIATELY CALL YOUR GAS SUPPLIER FROM A NEIGHBOR'S PHONE. FOLLOW THE GAS SUPPLIER'S INSTRUCTIONS.
- IF YOU CANNOT REACH YOUR GAS SUPPLIER, CALL THE FIRE
- DEPARTMENT.
- INSTALLATION AND SERVICE MUST BE PERFORMED BY A QUALIFIED INSTALLER SERVICE AGENCY OR THE GAS SUPPLIER.



SHOULD OVERHEATING OCCUR OR THE GAS SUPPLY FAIL TO SHUT OFF, TURN OFF THE MANUAL GAS SHUTOFF VALVE EXTERNAL TO THE FURNACE BEFORE TURNING OFF THE ELECTRICAL SUPPLY.

HEATING UNIT SHOULD NOT BE UTILIZED WITHOUT REASONABLE, ROUTINE, INSPECTION, MAINTENANCE AND SUPERVISION. IF THE BUILDING IN WHICH ANY SUCH DEVICE IS LOCATED WILL BE VACANT, CARE SHOULD BE TAKEN THAT SUCH DEVICE IS ROUTINELY INSPECTED, MAINTAINED AND MONITORED. IN THE EVENT THAT THE BUILDING MAYBE EXPOSED TO FREEZING TEMPERATURES AND WILL BE VACANT, ALL WATER-BEARING PIPES SHOULD BE DRAINED, THE BUILDING SHOULD BE PROPERLY WINTERIZED, AND THE WATER SOURCE CLOSED. IN THE EVENT THAT THE BUILDING MAY BE EXPOSED TO FREEZING TEMPERATURES AND WILL BE VACANT, ANY HYDRONIC COIL UNITS SHOULD BE DRAINED AS WELL AND, IN SUCH CASE, ALTERNATIVE HEAT SOURCES SHOULD BE UTILIZED.

WARNING

TO AVOID PROPERTY DAMAGE, PERSONAL INJURY OR DEATH, DO NOT USE THIS UNIT IF ANY PART HAS BEEN UNDER WATER. IMMEDIATELY CALL A QUALIFIED SERVICE TECHNICIAN TO INSPECT THE FURNACE AND TO REPLACE ANY PART OF THE CONTROL SYSTEM AND ANY GAS CONTROL HAVING BEEN UNDER WATER.



THIS UNIT MUST NOT BE USED AS A "CONSTRUCTION HEATER" DURING THE FINISHING PHASES OF CONSTRUCTION ON A NEW STRUCTURE. THIS TYPE OF USE MAY RESULT IN PREMATURE FAILURE OF THE UNIT DUE TO EXTREMELY LOW RETURN AIR TEMPERATURES AND EXPOSURE TO CORROSIVE OR VERY DIRTY ATMOSPHERES.



HIGH VOLTAGE

DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



TO PREVENT THE RISK OF PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH, DO NOT STORE COMBUSTIBLE MATERIALS OR USE GASOLINE OR OTHER FLAMMABLE LIQUIDS OR VAPORS IN THE VICINITY OF THIS APPLIANCE.

WARNING

FIRE OR EXPLOSION HAZARD

FAILURE TO FOLLOW THE SAFETY WARNINGS EXACTLY COULD RESULT IN SERIOUS INJURY, DEATH OR PROPERTY DAMAGE. NEVER TEST FOR GAS LEAKS WITH AN OPEN FLAME. USE COMMERCIALLY AVAILABLE SOAP SOLUTION MADE SPECIFICALLY FOR THE DETECTION OF LEAKS TO CHECK ALL CONNECTIONS. A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

AVERTISSEMENT

RISQUE D'INCENDIE OU D'EXPLOSION

SI LES CONSIGNES DE SÉ CURITÉ NE SONT PAS SUIVIES À LA LETTRE, CELA PEUT ENTRAÎNER LA MORT, DE GRAVES BLESSURES OU DES DOMMAGES MATÉRIELS. NE JAMAIS VÉRIFIER LA PRÉSENCE DE FUITES DE GAZ AU MOYEN D'UNE FLAMME NUE. VÉRIFIER TOUS LES RACCORDS EN UTILISANT UNE SOLUTION SAVONNEUSE COMMERCIALE CONÇUE SPÉ CIALEMENT POUR LA DÉTECTION DE FUITES. UN INCENDIE OU UNE EXPLOSION RISQUE DE SE PRODUIRE, CE QUI PEUT ENTRAÎNER LA MORT, DES BLESSURES OU DES DOMMAGES MATÉRIELS.



AUXILIARY DEVICES WHICH MAY BE A POTENTIAL IGNITION SOURCE SHALL NOT BE INSTALLED IN THE DUCT WORK. EXAMPLES OF SUCH POTENTIAL IGNITION SOURCES ARE HOT SURFACES WITH A TEMPERATURE EXCEEDING 700 °C AND ELECTRIC SWITCHING DEVICES.



LEAK DETECTION SYSTEM INSTALLED. UNIT MUST BE POWERED EXCEPT FOR SERVICE.



THIS UNIT IS EQUIPPED WITH ELECTRICALLY POWERED SAFETY MEASURES. TO BE EFFECTIVE, THE UNIT MUST BE ELECTRICALLY POWERED AT ALL TIMES AFTER INSTALLA-TION, OTHER THAN WHEN SERVICING.



DO NOT OPERATE THE COMPRESSOR(S) WITHOUT THE TERMINAL PLUG FULLY ENGAGED OR THE TERMINAL COVER PROPERLY INSTALLED. GET AWAY IF UNUSUAL SOUNDS ARE HEARD FROM WITHIN THE COMPRESSOR. DISCONNECT ELECTRICAL POWER FROM THE COMPRES-SOR / UNIT.



A TRIPPED CIRCUIT BREAKER OR BLOWN FUSE MAY INDI-CATE THAT AN ELECTRICAL PROBLEM EXISTS. DO NOT RESET A CIRCUIT BREAKER OR REPLACE FUSES WITHOUT FIRST PERFORMING THOROUGH ELECTRICAL TROUBLESHOOTING AND TESTING PROCEDURES.



HIGH VOLTAGE - PRIOR TO SERVICING THE UNIT OR RE-MOVING THE COMPRESSOR TERMINAL PLUG OR TERMI-NAL COVER, DISCONNECT ALL ELECTRICAL POWER FROM THE UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT.



HERMETIC COMPRESSOR ELECTRICAL TERMINAL VENT-ING CAN BE DANGEROUS. IN CERTAIN CIRCUMSTANCES, THE TERMINAL MAY BE EXPELLED, VENTING THE REFRIG-ERANT VAPOR AND COMPRESSOR OIL CONTAINED WITHIN THE COMPRESSOR HOUSING AND SYSTEM. BE ALERT FOR SOUNDS OF ARCING (SIZZLING, SPUTTERING, OR POP-PING) INSIDE THE COMPRESSOR. IMMEDIATLY GET AWAY IF YOU HEAR THESE SOUNDS AND DISCONNECT ELECTRICAL POWER FROM THE COMPRESSOR / UNIT.



DO NOT USE MEANS TO ACCELERATE THE DEFROSTING PROCESS OR TO CLEAN, OTHER THAN THOSE RECOM-MENDED BY THE MANUFACTURER.

THE APPLIANCE SHALL BE STORED IN A ROOM WITHOUT CONTINUOUSLY OPERATING IGNITION SOURCES

(FOR EXAMPLE:OPEN FLAMES, AN OPERATING GAS APPLI-ANCE OR AN OPERATING ELECTRIC HEATER.)

DO NOT PIERCE OR BURN.

BE AWARE THAT REFRIGERANTS MAY NOT CONTAIN AN ODOR.



ONLY AUXILIARY DEVICES APPROVED BY THE APPLIANCE MANUFACTURER OR DECLARED SUITABLE WITH THE REFRIGERANT SHALL BE INSTALLED IN CONNECTING DUCTWORK.



CARBON MONOXIDE POISONING HAZARD

Failure To Follow The Steps Outlined Below For Each Appliance Connected To The Venting System Being Placed Into Operation Could Result In Carbon Monoxide Poisoning Or Death. The Following Steps Shall Be Followed For Each Appliance Connected To The Venting System Being Placed Into Operation, While All Other Appliances Connected To The Venting System Are Not In Operation:

1) Seal Any Unused Openings In The Venting System.

2) Inspect The Venting System For Proper Size And Horizontal Pitch, As Required In The National Fuel Gas Code, Ansi Z223.1/nfpa 54 Or The Natural Gas And Propane Installation Code, Csa B149.1 And These Instructions. Determine That There Is No Blockage Or Restriction, Leakage, Corrosion And Other Deficiencies Which Could Cause An Unsafe Condition.

3) As Far As Practical, Close All Building Doors And Windows And All Doors Between The Space In Which The Appliance(s) Connected To The Venting System Are Located And Other Spaces Of The Building.

4) Close Fireplace Dampers.

5) Turn On Clothes Dryers And Any Appliance Not Connected To The Venting System. Turn On Any Exhaust Fans, Such As Range Hoods And Bathroom Exhausts, So They Are Operating At Maximum Speed. Do Not Operate A Summer Exhaust Fan.
6) Follow The Lighting Instructions. Place The Appliance Being Inspected Into Operation. Adjust The Thermostat So Appliance Is Operating Continuously.

7) Test For Spillage From Draft Hood Equipped Appliances At The Draft Hood Relief Opening After 5 Minutes Of Main Burner Operation. Use The Flame Of A Match Or Candle.

8) If Improper Venting Is Observed During Any Of The Above Tests, The Venting System Must Be Corrected In Accordance With The National Fuel Gas Code, Ansi Z223.1/nfpa 54 And/or Natural Gas And Propane Installation Code, Csa B149.1.

9) After It Has Been Determined That Each Appliance Connected To The Venting System Properly Vents When Tested As Outlined Above, Return Doors, Windows, Exhaust Fans, Fireplace Dampers And Any Other Gas-fired Burning Appliance To Their Previous Conditions Of Use.

RISQUE D'INTOXICATION AU MONOXYDE DE CARBONE

Si les étapes décrites ci-dessous ne sont pas suivies pour chacun des appareils raccordés au système de ventilation au moment de sa mise en marche, cela peut entraîner une intoxication au monoxyde de carbone ou la mort. Les étapes suivantes doivent être suivies pour chacun des appareils raccordés au système de ventilation au moment de sa mise en marche, alors que tous les autres appareils raccordés au système de ventilation ne sont pas en marche:

1) Sceller toutes les ouvertures inutilisées du système de ventilation.

2) Inspecter le système de ventilation afin de vérifier si la taille et l'inclinaison par rapport à l'horizontale sont conformes aux exigences du National Fuel Gas Code, ANSI Z223.1/NFPA 54 ou du Code d'installation du gaz naturel et du propane, CSA B149.1 et à ces instructions. Vérifier qu'il n'y pas d'obstruction ou de pourraient entraîner une situation dangereuse.

3) Si possible, fermer toutes les portes et fenêtres du bâtiment ainsi que toutes les portes séparant l'endroit où se trouvent les appareils raccordés au système de ventilation et less autres zones du bâtiment.

4) Fermer le registre des foyers.

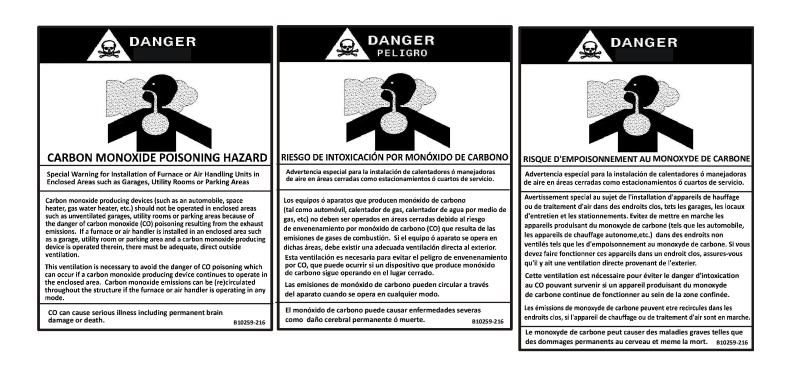
5) Mettre les sécheuses en marche ainsi que tous les autres appareils qui ne sont pas raccordés au systéme de ventilation. Mettre en marche tous les ventilateurs de tirage, comme celui des hottes de cuisine et des salles de bains, et les régler à la puissance maximale. Ne pas mettre en marche les ventilateurs d'été.

6) Suivre les instructions d'allumage. Mettre en marche l'appareil soumis à l'inspection. Régler le thermostat de manièr à ce que l'appareil fonctionne en continu.

7) Vérifier la présence de fuite au niveau de l'ouverture du coupe-tirage des appareils qui en sont dotés après 5 minutes de fontionnement du brûleur principal. Utiliser la flamme d'une allumette ou d'une bougie.

8) Si un problème de ventilation est observé pendant l'un des essaid décrits ci-dessus, des correctifs doivent être apportés au système de ventilation conformé National Fuel Gas Code, Ansi Z223.1/nfpa 54 And/or Natural Gas And Propane Installation Code, Csa B149.1.

9) Une fois qu'il été déterminé que chaque appareil raccordé au système de ventilation fontionne correctement au moyen des essais décrits ci-dessus, les portes, les fenêtres, les ventilateurs, les registres de foyer et tous les autres appareils de combustion alimentés au gaz doivent être remis dans leur état initial.



GENERAL INFORMATION

TO PREVENT PROPERTY DAMAGE, PERSONAL INJURY OR DEATH, DUE TO FIRE EXPLOSIONS, SMOKE, SOOT, CONDENSATION, ELECTRIC SHOCK OR CARBON MONOXIDE, THIS UNIT MUST BE PROPERLY INSTALLED, REPAIRED, OPERATED, AND MAINTAINED.

This unit is approved for outdoor installation ONLY. Rated performance is achieved after 20 hours of operation. Rated performance is delivered at the specified airflow. See outdoor unit specification sheet for split system models or product specification sheet for packaged and light commercial models. Specification sheets can be found at <u>www.daikincomfort.com</u> for Daikin brand products. Within the website, please select the residential or commercial products menu and then select the submenu for the type of product to be installed, such as air conditioners or heat pumps, to access a list of product pages that each contain links to that model's specification sheet.

To assure that your unit operates safely and efficiently, it must be installed, operated, and maintained in accordance with these installation and operating instructions, all local building codes and ordinances, or in their absence, with the latest edition of the National Fuel Gas Code NFPA54/ANSI Z223.1 and National Standard of Canada CAN/CSA B149 Installation Codes.

The heating and cooling capacities of the unit should be greater than or equal to the design heating and cooling loads of the area to be conditioned. The loads should be calculated by an approved method or in accordance with A.S.H.R.A.E. Guide or Manual J - Load Calculations published by the Air Conditioning Contractors of America.

QUALIFICATION OF WORKERS

Personnel must be certified to service, work, and/or repair units with FLAMMABLE REFRIGERANTS. A certificate should document the competence and qualification achieved through training that included the substance of the following:

- Information about the explosion potential of FLAMMA-BLE REFRIGERANTS to show that flammables may be dangerous when handled without care.
- Information about POTENTIAL IGNITION SOURCES, especially those that are not obvious, such as lighters, light switches, vacuum cleaners, electric heaters.
- Information about the different safety concepts, including ventilated and unventilated areas.
- Information about refrigerant detectors, including function, operation, and service measures.
- Information about the concept of sealed components and sealed enclosures according to IEC 60079-15:2010.
- Information about the correct working procedures, including commissioning, maintenance, repair, decommissioning, and disposal procedures.

Obtain from: American National Standards Institute 25 West 43rd Street, 4th Floor New York, NY 10036

THE FOLLOWING INSTRUCTIONS ARE MANDATORY FOR A2L SYSTEMS AND SUPERSEDE OTHER INSTRUCTIONS

WARNING

ONLY BRAZING TECHNIQUES AND APPROVED MECHANICAL JOINTS SHOULD BE USED TO CONNECT REFRIGERANT TUBING CONNECTIONS. NON-APPROVED MECHANICAL CONNECTORS AND OTHER METHODS ARE NOT PERMITTED IN THIS SYSTEM CONTAINING A2L REFRIGERANT. APPROVED MECHANICAL JOINTS WILL BE DETAILED IN THE PRODUCT'S SPECIFICATION SHEETS.

STANDING PRESSURE TEST/ LEAK DETECTION METHOD

Using dry nitrogen or dry helium, pressurize the system to 450 PSIG. Allow the pressure to stabilize and hold for 15 Minutes (minimum). The system is considered leak-free if the pressure does not drop below 450 PSIG. If, after 15 Minutes, the pressure drops below 450 PSIG, it implies a leak in the system. Proceed with identifying and sealing the leak and repeating the Standing Pressure Test. Leak test the system using dry nitrogen or dry helium and soapy water to identify leaks. **No refrigerant shall be used for pressure testing to detect leaks.** Proceed to system evacuation using the Deep Vacuum Method.

DEEP VACUUM METHOD

The Deep Vacuum Method requires a vacuum pump rated for 500 microns or less. This method effectively and efficiently ensures the system is free of non-condensable air and moisture. The Triple Evacuation Method is detailed in the Service Manual for this product model as an alternative. To expedite the evacuation procedure, it is recommended that the Schrader Cores be removed from the service valves using a core-removal tool.

- 1. Connect the vacuum pump, micron gauge, and vacuum-rated hoses to both service valves. Evacuation must use both service valves to eliminate system mechanical seals.
- 2. Evacuate the system to less than 500 microns.
- 3. Isolate the pump from the system and hold the vacuum for 10 minutes (minimum). Typically, pressure will rise slowly during this period. If the pressure rises to less than 1000 microns and remains steady, the system is considered leak-free; proceed to system charging and startup.
- 4. If pressure rises above 1000 microns but holds steady below 2000 microns, non-condensable air or moisture may remain, or a small leak may be present. Return to step 2: If the same result is achieved, check for leaks and repair. Repeat the evacuation procedure.
- 5. If pressure rises above 2000 microns, a leak is present. Check for leaks and repair them. Then, repeat the evacuation procedure.

ACCESSORY INSTALLATION

WARNING

ALL ACCESSORIES THAT MAY BECOME A POTENTIAL IGNITION SOURCE IF INSTALLED, SUCH AS ELECTRONIC AIR CLEANERS, MUST ONLY BE POWERED THROUGH OUR ACCESSORY CONTROL BOARD KIT. IF AN ELECTRONIC AIR CLEANER IS ALREADY INSTALLED IN THE DUCT WORK AND NOT CONNECTED TO THE ACCESSORY CONTROL BOARD, IT WILL HAVE TO BE DISABLED OR REMOVED. ENSURE THAT ANY ADDITIONAL WIRING FROM THE INDOOR UNIT TO THE ACCESSORY CONTROL BOARD IS ROUTED AND PROTECTED FROM DAMAGE AND WEAR, AVOIDING THE FLUE PIPE AND ANY JOINTS THAT MAY NEED BRAZED OR DISCONNECTED FOR SERVICE. REFER TO THE PRODUCT SPECIFICATION SHEET FOR THE ACCESSORY CONTROL BOARD KIT PART NUMBER

ALTITUDE ADJUSTMENT FACTOR TO CALCULATE MINIMUM ROOM AREA

The Indoor equipment mitigation requirements are calculated at sea level. For higher altitudes adjust the minimum room area specified on or near the Serial Plate by the corresponding altitude adjustment factor shown below. This table is provided as a reference.

Adjusted room area (A_{min adj}) is the product of the minimum room area specified in the serial plate and the adjustment factor AF, as shown in below formula

| Height in meters | Height in feet | Altitude Adjustment Factor (AF) |
|------------------|----------------|---------------------------------|
| At sea level | At sea level | 1.00 |
| 1~200 | 1~660 | 1.02 |
| 200~400 | 660~1320 | 1.03 |
| 400~600 | 1320~1970 | 1.05 |
| 600~800 | 1970~2630 | 1.07 |
| 800~1000 | 2630~3290 | 1.09 |
| 1000~1200 | 3290~3940 | 1.11 |
| 1200~1400 | 3940~4600 | 1.13 |
| 1400~1600 | 4600~5250 | 1.15 |
| 1600~1800 | 5250~5910 | 1.17 |
| 1800~2000 | 5910~6570 | 1.19 |
| 2000~2200 | 6570~7220 | 1.21 |
| 2200~2400 | 7220~7880 | 1.24 |
| 2400~2600 | 7880~8540 | 1.26 |
| 2600~2800 | 8540~9190 | 1.29 |
| 2800~3000 | 9190~9850 | 1.31 |
| 3000~3200 | 9850~10500 | 1.34 |

 $A_{min adj} = A_{min}$ (serial plate) * AF

TRANSPORTATION DAMAGE

Check the carton upon arrival for external damage. If damage is found, a request for inspection by carrier agent should be made in writing immediately.

Carefully inspect the unit for damage including damage to the cabinetry. Any bolts or screws which may have loosened in transit must be re-tightened. In the event of damage, the receiver should:

- 1. Make notation on delivery receipt of any visible damage to shipment or container.
- 2. Notify carrier promptly and request an inspection.
- 3. In case of concealed damage, carrier should be notified as soon as possible-preferably within 5 days.
- 4. File the claim with the following supporting documents:
- a. Original Bill of Lading, certified copy, or indemnity bond.
- b. Original paid freight bill or indemnity in lieu thereof.
- c. Original invoice or certified copy thereof, showing trade and other discounts or reductions.
- d. Copy of the inspection report issued by carrier representative at the time damage is reported to the carrier. The carrier is responsible for making prompt inspection of damage and for a thorough investigation of each claim. The distributor or manufacturer will not accept claims from dealers for transportation damage.

NOTE: When inspecting the unit for transportation damage, remove all packaging materials. Recycle or dispose of the packaging material according to local codes.

CABLING

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

DETECTION OF FLAMMABLE REFRIGERANTS

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

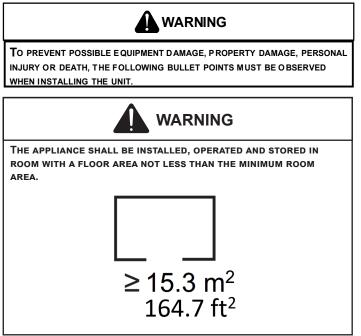
The following leak detection methods are deemed acceptable for all refrigerant systems.

Electronic leak detectors may be used to detect refrigerant leaks but, in the case of FLAMMABLE REFRIGERANTS, the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25 % maximum) is confirmed. Leak detection fluids are also suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipework.

If a leak is suspected, all naked flames shall be removed/ extinguished.

If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak."





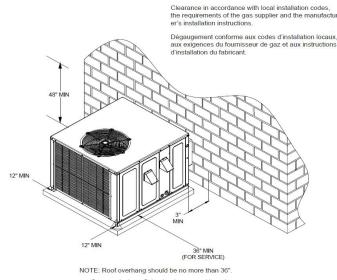
ALL INSTALLATIONS:

- For proper flame pattern within the heat exchanger and proper condensate drainage, the unit must be mounted level.
- The flue outlet hood must be at least 12 inches from any opening through which flue gases could enter a building, and at least three feet above any forced air inlet located within ten feet. The economizer/ manual fresh air intake/motorized fresh air intake and combustion air inlet mounted on the unit are not affected by this restriction.

- To avoid possible corrosion of the heat exchanger, do not locate the unit in an area where the outdoor air (i.e. combustion air for the unit) will be frequently contaminated by compounds containing chlorine or fluorine. Common sources of such compounds include swimming pool chemicals and chlorine bleaches, paint stripper, adhesives, paints, varnishes, sealers, waxes (which are not yet dried) and solvents used during construction and remodeling. Various commercial and industrial processes may also be sources of chlorine/ fluorine compounds.
- To avoid possible illness or death of the building occupants, do NOT locate outside air intake device (economizer, manual fresh air intake, motorized fresh air intake) too close to an exhaust outlet, gas vent termination, or plumbing vent outlet. For protection, proper operation, and service access (see appendix). These clearances must be permanently maintained.
- The combustion air inlet and flue outlet hoods on the unit must never be obstructed. If used, do not allow the economizer/manual fresh air damper/ motorized fresh air damper to become blocked by snow or debris. In some climates or locations, it may be necessary to elevate the unit to avoid these problems.
- When the unit is heating, the temperature of the return air entering the unit must be between 50° F and 100° F.
- Units manufactured on or after May 1, 2017 are not permitted to be used in Canada for heating of buildings or structures under construction.

GROUND LEVEL INSTALLATIONS ONLY:

- When the unit is installed on the ground adjacent to the building, a level concrete (or equal) base is recommended. Prepare a base that is 3" larger than the package unit footprint and a minimum of 3" thick.
- The base should also be located where no runoff of water from higher ground can collect in the unit.
- The top of the unit should be completely unobstructed. If units are to be located under an overhang, there should be a minimum of 48" clearance and provisions made to deflect the warm discharge air out from the overhang.
- Close to the wall application assures free, unobstructed air to the other two sides. In more confined application spaces, such as corners provide a minimum 12" clearance on all air inlet sides. Allow 36" minimum for service access to the compressor compartment and controls.
- Unit should be located a minimum of 3" away from the wall with the connections facing the wall

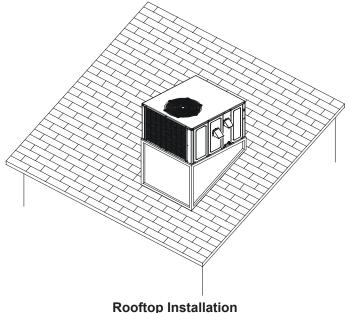


Outside Slab Installation

ROOFTOP INSTALLATIONS ONLY:

NOTE: To ensure proper condensate drainage, unit must be installed in a level position.

• To avoid possible property damage or personal injury, the roof must have sufficient structural strength to carry the weight of the unit(s) and snow or water loads as required by local codes. Consult a structural engineer to determine the weight capabilities of the roof.

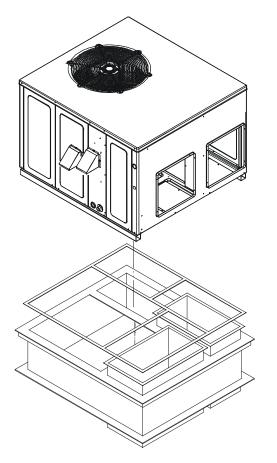


The unit may be installed directly on wood floors or on Class A, Class B, or Class C roof covering material.

• To avoid possible personal injury, a safe, flat surface for service personnel should be provided.

ROOF CURB INSTALLATIONS ONLY:

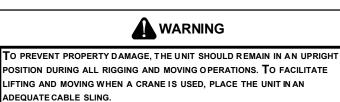
- Sufficient structural support must be determined prior to locating and mounting the curb and package unit.
- Ductwork must be constructed using industry guidelines. The duct work must be placed into the roof curb before mounting the package unit.
- Curb insulation, cant strips, flashing and general roofing material are furnished by the contractor.



Roof Curb Installation

| Model | Roof Curb |
|---------------------|--------------|
| DP3GM(24-60)***31** | D14CRBPGCHMA |
| DP3GM(36-60)***33** | DIACKBPGCHMA |

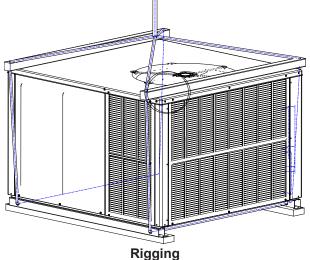
RIGGING DETAILS



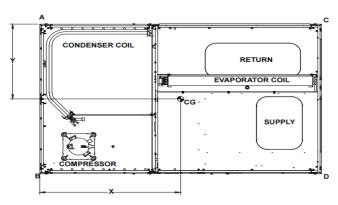
Important: If using bottom discharge with roof curb, ductwork should be attached to the curb prior to installing the unit. Ductwork dimensions are shown in roof curb installation instructions.

Refer to the Roof Curb Installation Instructions for proper curb installation. Curbing must be installed in compliance with the National Roofing Contractors Association Manual. Lower unit carefully onto roof mounting curb. While rigging unit, center of gravity will cause condenser end to be lower than supply air end.

Unit should be lifted by the **4 holes** located at the **base frame corners.** Lifting cables should be attached to the unit with shackles. While rigging unit, center of gravity will cause the condenser end (heavier) to be lower than supply air end. The distance between the unit and the crane hook up should not be less than 60". The spreaders bars should span over the unit to prevent damage to the cabinet from the lifting cables.



To assist in determining rigging requirements, unit weights and center of gravity are shown as follows:

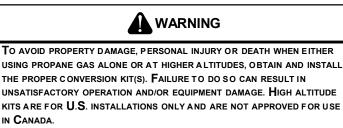


NOTE: Unit should be lifted at a point above center of gravity.

| Model | Shinning Maidt (lb) | Operating Weight (Ib) | Co | rner W | eights | (lb) | X(in) | Y(in) |
|----------------|---------------------|-----------------------|-----|--------|--------|------|----------------|-------|
| MODEL | ShippingWeight (lb) | Operating Weight (Ib) | Α | В | C | D | A (III) | 1(11) |
| DP3GM24***31** | 379 | 369 | 38 | 156 | 119 | 56 | 24.2 | 27.0 |
| DP3GM30***31** | 383 | 373 | 49 | 166 | 103 | 55 | 21.6 | 27.8 |
| DP3GM36***3*** | 408 | 397 | 23 | 212 | 146 | 16 | 20.8 | 27.0 |
| DP3GM42***3*** | 467 | 457 | 93 | 224 | 96 | 44 | 15.6 | 27.6 |
| DP3GM48***3*** | 460 | 449 | 63 | 199 | 124 | 63 | 21.2 | 27.4 |
| DP3GM60***3*** | 509 | 497 | 105 | 170 | 123 | 99 | 22.8 | 25.4 |

GAS PIPING

IMPORTANT NOTE: This unit is factory set to operate on natural gas at the altitudes shown on the rating plate.



The rating plate is stamped with the model number, type of gas and gas input rating. Make sure the unit is equipped to operate on the type of gas available. Conversion to LP gas is permitted with the use of the factory authorized conversion kit LPM-07, for use with single stage models, or LPM-08, for use with two-stage models. See table below.

| I | LP Conver | sion Kit | Model | | | | |
|--------|-----------|----------|------------------------------|--|--|--|--|
| LPM-07 | | | Single Stage Heating Models | | | | |
| LPM-08 | | | 8 Two-Stage Heating Models | | | | |
| | | Inlet | Gas Pressure | | | | |
| | Natural | Min | . 5.0" W.C., Max. 10.0" W.C. | | | | |

Propane Min. 11.0" W.C., Max. 13.0" W.C.

Inlet Gas Pressure Must be within the minimum and Maximum Value Shown in Table Above.

The minimum supply pressure should not vary from that shown in the table above because this could prevent the unit from having dependable ignition. In addition, gas input to the burners must not exceed the rated input shown on the rating plate. Over firing of the unit could result in premature heat exchanger failure.

HIGH ALTITUDE DERATE (U.S. INSTALLATIONS ONLY)

IMPORTANT NOTE: The gas/electric units naturally derate with altitude. Do not attempt to increase the firing rate by changing orifices or increasing the manifold pressure. This can cause poor combustion and equipment failure. At all altitudes, the manifold pressure must be within 0.3 inches W.C. of that listed on the nameplate for the fuel used. At all altitudes and with either fuel, the air temperature rise must be within the range listed on the unit nameplate.

Refer to the Installation Manual provided with the LP kit for conversion from natural gas to propane gas and for altitude adjustments. Use HA03 for installations above 2000'.

NOTE: For altitudes above 2,000 feet, please refer to the gas/ electric package unit specification sheet for required kit(s).

PIPING

IMPORTANT NOTE: To avoid possible unsatisfactory operation or equipment damage due to under firing of equipment, do not undersize the natural/propane gas piping from the meter/tank to the unit. When sizing a trunk line, include all appliances on that line that could be operated simultaneously.

The rating plate is stamped with the model number, type of gas and gas input rating. Make sure the unit is equipped to operate on the type of gas available. The gas line installation must comply with local codes, or in the absence of local codes, with the latest edition of the National Fuel Gas Code NFPA 54/ANSI Z223.1.

Natural Gas Connection

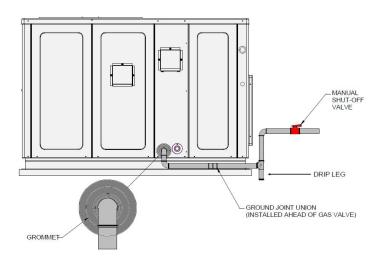
| Natural Gas Capacity of Pipe | | | | | | | | | | | |
|-------------------------------------|-----|----------------------------------|------|-------|-------|--|--|--|--|--|--|
| in Cubic Feet of Gas Per Hour (CFH) | | | | | | | | | | | |
| Length of | Ν | Nominal Black Pipe Size (inches) | | | | | | | | | |
| Pipe in Feet | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2 | | | | | | |
| 10 | 132 | 278 | 1050 | 1600 | | | | | | | |
| 20 | 92 | 190 | 350 | 730 | 1100 | | | | | | |
| 30 | 73 | 152 | 285 | 590 | 980 | | | | | | |
| 40 | 63 | 130 | 245 | 500 | 760 | | | | | | |
| 50 | 56 | 115 | 215 | 440 | 670 | | | | | | |
| 60 | 50 | 105 | 195 | 400 | 610 | | | | | | |
| 70 | 46 | 96 | 180 | 370 | 560 | | | | | | |
| 80 | 43 | 90 | 170 | 350 | 530 | | | | | | |
| 90 | 40 | 84 | 320 | 490 | | | | | | | |
| 100 | 38 | 79 | 150 | 305 | 460 | | | | | | |

Pressure= .50 PSIG or less and Pressure Drop of 0.3" W.C. (Based on 0.60 Specific Gravity Gas)

CFH = BTUH Furnace Input Heating Value of Gas (BTU/Cubic_Foot)

Refer to the Proper Piping Practice drawing for the general layout at the unit. The following rules apply:

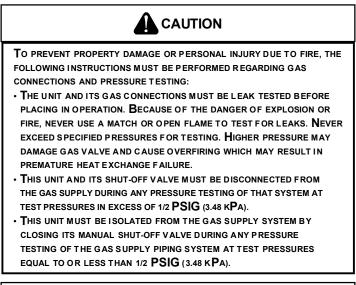
- 1. Use black iron pipe and fittings for the supply piping. The use of a flex connector and/or copper piping is permitted as long as it is in agreement with local codes.
- 2. Use pipe joint compound on male threads only. Pipe joint compound must be resistant to the action of the fuel used.
- 3. Use ground joint unions.
- 4. Install a drip leg to trap dirt and moisture before it can enter the gas valve. The drip leg must be a minimum of three inches long.
- 5. Use two pipe wrenches when making connection to the gas valve to keep it from turning.
- 6. Install a manual shut-off valve in a convenient location (within six feet of unit) between the meter and the unit.
- 7. Tighten all joints securely.
- 8. The unit must be connected to the building piping by one of the following methods:
- · Rigid metallic pipe and fittings
- Semi rigid metallic tubing and metallic fittings (Aluminum alloy tubing must not be used in exterior locations)
- Listed gas appliance connectors used in accordance with the terms of their listing that are completely in the same room as the equipment
- In the prior two methods above the connector or tubing must be protected from physical and thermal damage. Aluminum alloy tubing and connectors must be coated to protect against external corrosion when in contact with masonry, plaster or insulation or are subject to repeated wetting by liquids (water - not rain water, detergents or sewage)



Proper Piping Practice

NOTE: The unit gas supply entrance is factory sealed with plugs. Keep plugs in place until gas supply is ready to be installed. Once ready, replace the plugs with the supplied grommets and install gas supply line.

GAS PIPING CHECKS





TO AVOID PROPERTY DAMAGE OR PERSONAL INJURY, BE SURE THERE IS NO OPEN FLAME IN THE VICINITY DURING AIR BLEEDING.

There will be air in the gas supply line after testing for leaks on a new installation. Therefore, the air must be bled from the line by loosening the ground joint union until pure gas is expelled. Tighten union and wait for five minutes until all gas has been dissipated in the air. Be certain there is no open flame in the vicinity during air bleeding procedure. The unit is placed in operation by closing the main electrical disconnect switch for the unit.

PROPANE GAS INSTALLATIONS



To avoid property damage, personal injury or death due to fire or explosion caused by a propane gas leak, install a gas detecting warning device. Since rust can reduce the level of odorant in propane gas, a gas detecting warning device is the only reliable way to detect a propane gas leak. Contact a local propane gas supplier about installing a gas detecting warning device.

IMPORTANT NOTE: Propane gas conversion kits must be installed to convert units to propane gas.

All propane gas equipment must conform to the safety standards of the National Board of Fire Underwriters (See NBFU Manual 58).

For satisfactory operation, propane gas supply pressure must be within 9.7 - 10.3 inches W.C. at the manifold with all gas appliances in operation. Maintaining proper gas pressure depends on three main factors:

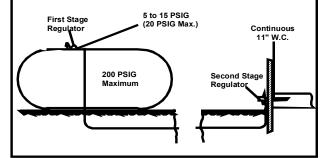
- 1. Vaporization rate, which depends on (a) temperature of the liquid, and (b) wetted surface area of the container or containers.
- 2. Proper pressure regulation.
- Pressure drop in lines between regulators, and between second stage regulator and the appliance. Pipe size required will depend on length of pipe run and total load of all appliances.

TANKS AND PIPING

Complete information regarding tank sizing for vaporization, recommended regulator settings and pipe sizing is available from most regulator manufacturers and propane gas suppliers.

Since propane gas will quickly dissolve white lead or most standard commercial compounds, special pipe dope must be used. Shellac base compounds resistant to the actions of liquefied petroleum gases such as Gasolac[®], Stalactic[®], Clyde's[®] or John Crane[®] are satisfactory.

See below for typical propane gas piping.



Typical Propane Gas Piping

| Sizing Between First and Second Stage Regulator |
|---|
| Maximum Propane Capacities listed are based on 1 PSIG Pressure Drop at 10 |
| PSIG Setting, Capacities in 1.000 BTU/HR |

| PIPE OR TUBING LENGTH, | TUBING SIZE, O.D., TYPE L NOMINAL PIPE SI SCHEDULE 40 | | | | | | | | |
|------------------------------|--|------|-------|-------|-------|-------|-------|--|--|
| FEET | 3/8" | 1/2" | 5/8" | 3/4" | 7/8" | 1/2" | 3/4" | | |
| 30 | 309 | 700 | 1,303 | 2,205 | 3,394 | 1,843 | 3,854 | | |
| 40 | 265 | 599 | 1,115 | 1,887 | 2,904 | 1,577 | 3,298 | | |
| 50 | 235 | 531 | 988 | 1,672 | 2,574 | 1,398 | 2,923 | | |
| 60 | 213 | 481 | 896 | 1,515 | 2,332 | 1,267 | 2,649 | | |
| 70 | 196 | 446 | 824 | 1,394 | 2,146 | 1,165 | 2,437 | | |
| 80 | 182 | 412 | 767 | 1,297 | 1,996 | 1,084 | 2,267 | | |
| 90 | 171 | 386 | 719 | 1,217 | 1,873 | 1,017 | 2,127 | | |
| 100 | 161 | 365 | 679 | 1,149 | 1,769 | 961 | 2,009 | | |
| 150 | 130 | 293 | 546 | 923 | 1,421 | 772 | 1,613 | | |
| 200 | 111 | 251 | 467 | 790 | 1,216 | 660 | 1,381 | | |
| 250 | 90 | 222 | 414 | 700 | 1,078 | 585 | 1,224 | | |
| 300 | 89 | 201 | 378 | 634 | 976 | 530 | 1,109 | | |
| 350 | 82 | 185 | 345 | 584 | 898 | 488 | 1,020 | | |
| 400 | 76 | 172 | 321 | 543 | 836 | 454 | 949 | | |

To convert to Capacities at 15 PSIG Settings -- Multiply by 1.130 To convert to Capacities at 5 PSIG Settings -- Multiply by 0.879

Sizing Between Single or Second Stage Regulator and Appliance* Maximum Propane Capacities Listed are Based on 1/2" W.C. Pressure Drop at 11" W.C. Setting. Capacities in 1,000 BTU/HR

| PIPE OR TUBING LENGTH, FEET | τu | IBING S | IZE, O.I | D., TYPI | EL | | | NAL PIPE HEDULE | | |
|--------------------------------------|------|---------|----------|----------|------|------|------|--------------------|--------|--------|
| FEET | 3/8" | 1/2" | 5/8" | 3/4" | 7/8" | 1/2" | 3/4" | 1" | 1-1/4" | 1-1/2" |
| 10 | 49 | 110 | 206 | 348 | 539 | 291 | 608 | 1,146 | 2,353 | 3,525 |
| 20 | 34 | 76 | 141 | 239 | 368 | 200 | 418 | 788 | 1,617 | 2,423 |
| 30 | 27 | 61 | 114 | 192 | 296 | 161 | 336 | 632 | 1,299 | 1,946 |
| 40 | 23 | 52 | 97 | 164 | 253 | 137 | 284 | 541 | 1,111 | 1,665 |
| 50 | 20 | 46 | 86 | 146 | 224 | 122 | 255 | 480 | 985 | 1,476 |
| 60 | 19 | 42 | 78 | 132 | 203 | 110 | 231 | 436 | 892 | 1,337 |
| 80 | 16 | 36 | 67 | 113 | 174 | 94 | 198 | 372 | 764 | 1,144 |
| 100 | 14 | 32 | 59 | 100 | 154 | 84 | 175 | 330 | 677 | 1,014 |
| 125 | 12 | 28 | 52 | 89 | 137 | 74 | 155 | 292 | 600 | 899 |
| 150 | 11 | 26 | 48 | 80 | 124 | 67 | 141 | 265 | 544 | 815 |
| 200 | 10 | 22 | 41 | 69 | 106 | 58 | 120 | 227 | 465 | 697 |
| 250 | 9 | 19 | 36 | 61 | 94 | 51 | 107 | 201 | 412 | 618 |
| 300 | 8 | 18 | 33 | 55 | 85 | 46 | 97 | 182 | 374 | 560 |
| 350 | 7 | 16 | 30 | 51 | 78 | 43 | 89 | 167 | 344 | 515 |
| 400 | 7 | 15 | 28 | 47 | 73 | 40 | 83 | 156 | 320 | 479 |

*DATA IN ACCORDANCE WITH NFPA PAMPHLET NO. 54

Table 3 - Propane Gas Pipe Sizing

WARNING

TO PREVENT PROPERTY DAMAGE OR SERIOUS PERSONAL INJURY DUE TO FIRE OR EXPLOSION CAUSED BY A PROPANE GAS LEAK. INSTALL A GAS DETECTING WARNING DEVICE.

IF THE PROPANE GAS UNIT IS INSTALLED IN AN EXCAVATED AREA OR A CONFINED SPACE. A WARNING DEVICE IS REQUIRED DUE TO:

- PROPANE GAS IS HEAVIER THAN AIR AND ANY LEAKING GAS CAN SETTLE IN ANY LOW AREAS OR CONFINED SPACES.
- PROPANE GAS ODORANT MAY FADE. MAKING THE GAS UNDETECTABLE EXCEPT WITH A WARNING DEVICE.

ELECTRICAL WIRING

THERMOSTAT LOCATION

Mount the thermostat approximately five feet above the floor, in an area that has an inside, vibration-free wall and has good air circulation.

Movement of air must not be obstructed by furniture, door, draperies, etc. The thermostat must not be mounted where it will be affected by drafts, hot or cold water pipes or air ducts in walls, radiant heat from fireplace, lamps, the sun, television, etc. Consult the Instruction Sheet packaged with thermostat for mounting instructions.

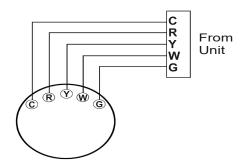
Five ton models have two stages of heating and two stages of mechanical cooling. Units which have economizers may use thermostats with two or three stages of cooling.

All other units have one stage of heating and one stage of mechanical cooling. Units which have economizers may use thermostats with one or two stages of cooling.

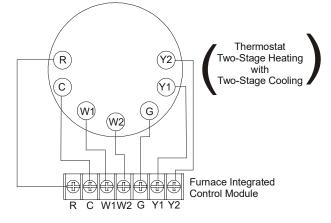


The units are designed for operation on 60 hertz current and at voltages as shown on the rating plate. All internal wiring in the unit is complete. It is necessary to bring in the power supply to the contactor as shown on the unit wiring diagram which is supplied with each unit. 24 volt wiring must be connected between the unit control panel and the room thermostat.

Thermostat Wiring - Single Stage Models



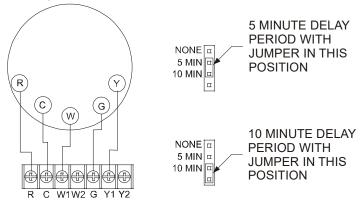
Single Stage Heating & Cooling Thermostat Diagram Thermostat Wiring - Two Stage Models



Two-Stage Heating with Two-Stage Cooling Thermostat Diagram

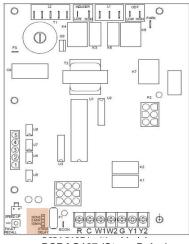
SINGLE STAGE THERMOSTAT - TWO-STAGE MODELS

To use a single stage thermostat, move jumper located to the left of the terminal strip labeled "Stage Delay" from NONE to "5" or "10" minutes. This selection will cause the control to run on low stage for the selected time (5 or 10 minutes) then shift to HIGH STAGE. This option controls both cooling and heating modes. If the jumper is not moved, only low-stage cool and low-stage heat will operate.

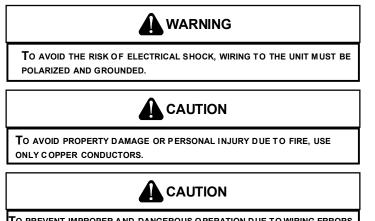


Two-Stage Heating (timed) and Two-Stage Cooling (timed) with Single Stage Thermostat Diagram

Refer to the unit wiring diagram for electrical connections. When installed, the unit must be electrically grounded in accordance with local codes or in the absence of local codes, with the National Electrical Code, ANSI/NFPA No. 70, and/or the CSA C22.1 Electrical Code. Ensure low voltage connections are waterproof.



PCBAG127 (Stage Delay)



TO PREVENT IMPROPER AND DANGEROUS OPERATION DUE TO WIRING ERRORS, LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. VERIFY PROPER OPERATION AFTER SERVICING. For unit protection, use a time delay fuse or HACR circuit breaker that is in excess of the circuit ampacity, but less than or equal to the maximum overcurrent protection device. DO NOT EXCEED THE MAXIMUM OVERCURRENT DEVICE SIZE SHOWN ON UNIT DATA PLATE.

UNIT VOLTAGE

| Rated | Minimum Supply | Maximum Supply |
|----------|----------------|----------------|
| Voltage | Voltage | Voltage |
| 208/230V | 197 | 253 |

All line voltage connections must be made through weatherproof fittings. All exterior power supply and ground wiring must be in approved weatherproof conduit. Low voltage wiring from the unit control panel to the thermostat requires coded cable. See below for ground level and rooftop wiring.

NOTE: A dedicated ground wire must be run from the unit to the electrical panel.

DO NOT use gas piping, or conduit as an electrical ground.

Low voltage wiring from the unit control panel to the thermostat requires coded cable. See below for ground level and rooftop wiring.

NOTE: The unit transformer is factory connected for 240V operation. If the unit is to operate on 208V, reconnect the transformer primary lead as shown on the unit wiring diagram.

NOTE: 5 ton models - The induced draft blower on some models is equipped with a low speed 240V lead (blue) and a low speed 208V lead (black). If the unit is to operate on 208V, connect the induced draft blower low speed 208V lead (black) in place of the low speed 240V lead (blue). Place the unused 240V lead on the "PARK" terminal located on ignition control.

NOTE: Some units are equipped with a single pole contactor. Caution must be exercised when servicing as only one leg of the power supply is broken with the contactor.

<u>1 Phase Models:</u> Connect incoming power leads to terminals L1 & L2 on contactor in the electrical control section, using wire sizes specified in wiring table.

<u>3 Phase Models:</u> Connect incoming power leads to terminals L1, L2 & L3 on contactor in the electrical control section, using wire sizes specified in wiring table.

| BRANCH CIRCUIT AMPACITY | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
|---------------------------|----|----|----|----|----|----|----|----|
| SUPPLY WIRE LENGTH - FEET | | | | | | | | |
| 200 | 6 | 4 | 4 | 4 | 3 | 3 | 2 | 2 |
| 150 | 8 | 6 | 6 | 4 | 4 | 4 | 3 | 3 |
| 100 | 10 | 8 | 8 | 6 | 6 | 6 | 4 | 4 |
| 50 | 14 | 12 | 10 | 10 | 8 | 8 | 6 | 6 |

Wiring Table

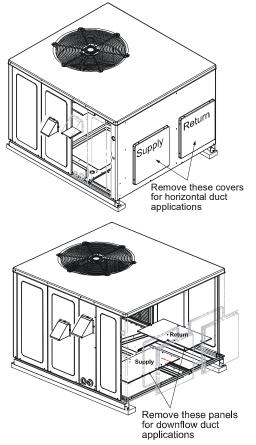
AIRFLOW CONVERSION

Units can easily be converted from horizontal to downdischarge airflow delivery. In down-discharge or high static installations, the installer should measure the total external static and review the blower performance charts before performing the installation. In some installations it will be necessary to change the blower speed to provide proper air flow.

Horizontal Air Flow

Single phase models are shipped without horizontal duct covers. If needed, these kits may be ordered through Daikin's Service Parts department.

For 3-phase models only, remove supply and return duct covers which are attached to the unit as shown below.



Duct Cover Installation

Down Discharge Applications

Cut insulation around bottom openings and remove panels from the bottom of the unit, saving the screws holding the panels in place.

NOTE: Single phase models require installation of horizontal duct kit #20464501NGK (medium chassis) and #20464502NGK (large chassis). See "Unit Dimensions" section for chassis sizes.

DUCTWORK

Duct systems and register sizes must be properly designed for the C.F.M. and external static pressure rating of the unit. Ductwork should be designed in accordance with the recommended methods of Air Conditioning Contractors of America Manual D (Residential) or Manual Q (Commercial). All ductwork exposed to the outdoors must include a weatherproof barrier and adequate insulation.

False ceilings or drop ceilings may be used as a return air plenum.

A duct system should be installed in accordance with Standards of the National Board of Fire Underwriters for the Installation of Air Conditioning, Warm Air Heating and Ventilating Systems. Pamphlets No. 90A and 90B.

The supply duct from the unit through a wall may be installed without clearance. However, minimum unit clearances as shown in the appendix must be maintained. The supply duct should be provided with an access panel large enough to inspect the air chamber downstream of the heat exchanger. A cover should be tightly attached to prevent air leaks.

For duct flange dimensions on the unit refer to the Unit Dimension illustration in the appendix.

For down-discharge applications, the ductwork should be attached to the roof curb prior to installing the unit. Ductwork dimensions are shown in the roof curb installation manual.

If desired, supply and return duct connections to the unit may be made with flexible connections to reduce possible unit operating sound transmission.

Filters

CAUTION

To prevent property damage due to fire and loss of equipment efficiency or equipment damage due to dust and lint build up on internal parts, never operate unit without an air filter installed in the return air system.

Even though a return air filter is not supplied with this unit, there must be a means of filtering all return air. All units may be externally filtered.

Refer to the unit filter size chart in the appendix for filter size information.

Filters installed external to the unit should be sized in accordance with their manufacturer recommendations. A throwaway filter must be sized for a maximum face velocity of 300 feet per minute.

Filter Installation

Important: When installing a filter, the air flow arrows on the filter must point toward the circulator blower.

| Unit | 2 Ton | 2 1/2 Ton | 3 Ton | 3 1/2 / 4 Ton | 5 Ton | |
|--------------------|------------|------------|------------|------------------|------------|--|
| Min.Filter Size | (1)20x20x1 | (1)20x25x1 | (1)25x25x1 | (2)20x20x1 | (2)20x25x1 | |

NOTE: Venting is self-contained. Do not modify or block.

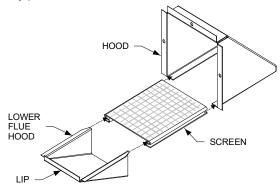
FLUE HOOD INSTALLATION

Install the exhaust flue hood and combustion air intake hood prior to operation of the unit.

To install the flue hood cover, please refer to the installation instructions, included in the flue hood assembly package located in the blower compartment.

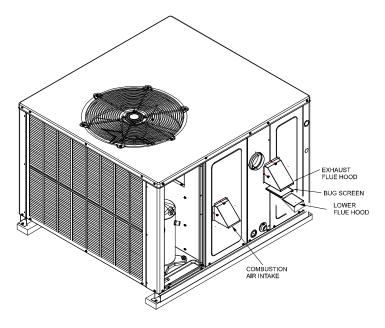
INSTALLATION - FLUE HOOD EXHAUST

- 1. Locate the flue hood assembly box in the unit.
- 2. Slide screen over flanges on the lower flue hood.
- 3. Slide screen and lower flue hood into hood.
- 4. Using the three screws provided, attach the hood (with the opening facing down) over the flue exhaust opening in the utility panel.



INSTALLATION - COMBUSTION AIR INTAKE HOOD

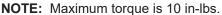
- 1. Locate the second hood.
- 2. Using the three screws provided, attach the hood (with the opening facing down) to the heat exchanger access door.

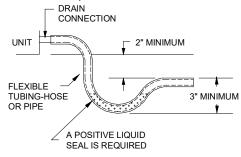


Flue Hood and Bug Screen Installation

CONDENSATE DRAIN CONNECTION

A 3/4" NPT drain connection is supplied for condensate piping. An external trap must be installed for proper condensate drainage.







NORMAL SEQUENCE OF OPERATION

HEATING

This unit is equipped with an ignition control that automatically lights the main burner. DO NOT attempt to light the main burners by any other method.

Single Stage Models:

NOTE: Ignition control begins timing the HEAT FAN OFF delay. There is an adjustable HEAT FAN OFF delay of approximately 120/135/150 seconds (factory set at 150). After the HEAT FAN OFF delay time has elapsed, the blower will de-energize. This allows any additional heat in the heat exchanger to be transferred to the conditioned space.

- 1. Thermostat calls for heat.
- 2. The induced draft blower energizes for a 15-second pre-purge.
- 3. The spark igniter and gas valve energizes for 7 seconds. **NOTE:** The igniter produces a very intense electrical spark that ignites the gas.
- 4. Main burners light and control detects presence of flame.
- 5. The 30-second HEAT FAN ON delay time begins after the main burners light.
- 6. The unit delivers heat to the conditioned space until the thermostat is satisfied.
- 7. The gas valve de-energizes. The induced draft blower continues operation for a 29-second post-purge.

Two-Stage Models:

If the call is for low stage heat, the induced draft blower switches to low speed and the high stage gas valve closes 5 seconds after the main burners light. If call is for high stage heat, induced draft blower remains at high speed and high stage gas valve remains open. **NOTE:** If a single stage thermostat is used, the control will step to low stage after the main burners light and remain at low stage for 5 or 10 minutes, depending on jumper position. If the call for HEAT remains after the transition delay time expires, the control will transition from low stage to high stage.

Two-Stage Models:

Induced draft blower remains at low speed (or switches from high to low if operating at high stage heat) for the 30-second post purge.

Two-Stage Models:

There is an adjustable HEAT FAN OFF delay of approximately 90/120/150/180 seconds (factory set at 150). If the unit is operating at high stage when the call for heat is removed, the blower will operate for 30 seconds at high heat speed then switch to low heat speed for the remainder of the selected HEAT FAN OFF delay.

COOLING

1. Thermostat calls for cooling. The compressor and outdoor fan are energized.

Two-Stage Models:

If the thermostat call is for low stage cooling, the compressor and outdoor fan are energized at low stage. If the thermostat call is for high stage cooling, the compressor and outdoor fan are energized at high stage.

- 2. Approximately seven seconds later, the indoor fan starts.
- 3. The unit will deliver cooling to the conditioned space until the thermostat is satisfied.
- 4. The compressor and outdoor fan will be de-energized when the thermostat opens.
- 5. The indoor fan continues to run for approximately 60 seconds after the thermostat is satisfied.

Two-Stage Models:

The fan runs at low cool speed for the off delay period. This allows additional cooling from the indoor coil to be transferred to the conditioned space. Then, the indoor fan stops.

NOTE: A 180-second anti-short cycle is integral to the control and prevents recycling of the compressor.

FAN ONLY

- 1. Thermostat calls for FAN ONLY by energizing "G".
- 2. Approximately seven seconds later, the indoor fan starts.

Two-Stage Models:

Indoor fan is energized at low heat speed.

3. The indoor fan continues to run for approximately 60 seconds after "G" is de-energized.

Two-Stage Models:

The indoor fan is immediately de-energized once the thermostat "G" is de-energized.

STARTUP, ADJUSTMENTS, AND CHECKS

HEATING STARTUP

This unit is equipped with an electronic ignition device to automatically light the main burners. It also has a power vent blower to exhaust combustion products.

On new installations, or if a major component has been replaced, the operation of the unit must be checked.

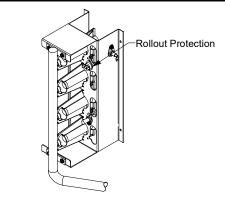
Check unit operation as outlined in the following instructions. If any sparking, odors, or unusual sounds are encountered, shut off electrical power and recheck for wiring errors, or obstructions in or near the blower motors. **Duct covers must be removed before operating unit**.

Rollout Protection Control

The rollout protection device opens, cutting power to the gas valve, if the flames from the burners are not properly drawn into the heat exchanger. The rollout protection device is located on the burner bracket. The reason for elevated temperatures at the control should be determined and repaired prior to resetting this manual reset control.



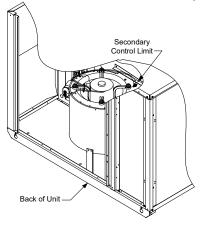
TO AVOID PROPERTY DAMAGE, PERSONAL INJURY OR DEATH DUE TO FIRE OR EXPLOSION, A QUALIFIED SERVICER MUST INVESTIGATE THE REASON FOR THE ROLLOUT PROTECTION DEVICE TO OPEN BEFORE MANUALLY RESETTING THE ROLLOUT PROTECTION DEVICE.



Rollout Protection on Burner Bracket

Secondary Limit Control

The secondary limit control is located on the top of the blower scroll assembly. This control opens when elevated temperatures are sensed. Elevated temperatures at the control are normally caused by blower failure. The reason for the opening should be determined and repaired prior to resetting. If the power to the unit is interrupted during the heating cycle, it may cause the secondary limit to trip. Once the blower compartment temperature drops below the limit reset temperature, the limit will automatically reset.

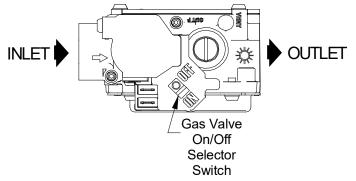


Secondary Limit Control

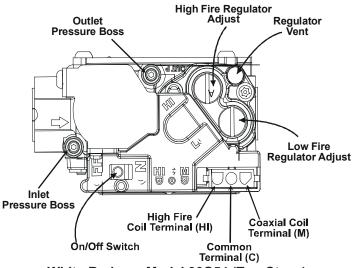
Pre-Operation Checks

- 1. Close the manual gas valve external to the unit.
- 2. Turn off the electrical power supply to the unit.
- 3. Set the room thermostat to its lowest possible setting.
- 4. Remove the heat exchanger door on the side of the unit by removing screws.
- 5. This unit is equipped with an ignition device which automatically lights the main burner. DO NOT try to light burner by any other method.
- 6. Move the gas control valve switch to the OFF position. Do not force.
- 7. Wait five minutes to clear out any gas.
- 8. Smell for gas, including near the ground. This is important because some types of gas are heavier than air. If you have waited five minutes and you do smell gas, immediately follow the warnings on page 3 of this manual. If having waited for five minutes and no gas smell is noted, move the gas control valve switch to the ON position.
- 9. Replace the heat exchanger door on the side of the unit.
- 10. Open the manual gas valve external to the unit.
- 11. Turn on the electrical power supply to the unit.
- 12. Set the thermostat to desired setting.

Gas Supply And Manifold Check



White-Rodgers 36J22 (Single Stage)

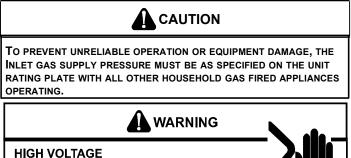


White-Rodgers Model 36G54 (Two Stage)

Gas supply pressure and manifold pressure with the burners operating must be as specified on the rating plate.

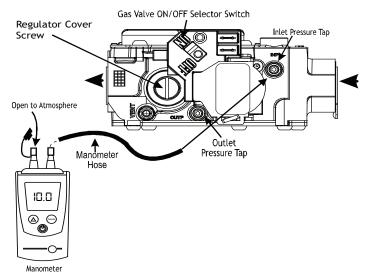
NOTE: Use adapter kit #0151K00000S to measure gas pressure on White-Rodgers 36J22 and 36G54 gas valves.

GAS SUPPLY PRESSURE MEASUREMENT

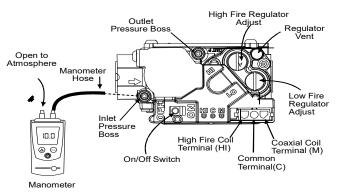


DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

The line pressure supplied to the gas valve must be within the range specified in the *Inlet Gas Supply Pressure* table. The supply pressure can be measured at the gas valve inlet pressure tap or at a hose fitting installed in the gas piping drip leg. The supply pressure must be measured with the unit OFF. To measure inlet pressure, use the following procedure.



White-Rodgers Model 36J22 Connected to Manometer



White-Rodgers Model 36G54 connected to Manometer

- 1. Turn OFF gas to furnace at the manual gas shutoff valve external to the furnace.
- 2. Turn OFF all electrical power to the system.
- 3. Inlet pressure tap connections:

White-Rodgers 36J22 or 36G54 valve:

Back inlet pressure test screw (inlet pressure boss) out one turn (counterclockwise, not more than one turn).

- 4. Attach a hose and manometer to the inlet pressure boss (White-Rodgers valve).
- 5. Turn ON the gas supply.
- 6. Turn On power and close thermostat "R" and "W" contacts, or "R" and "W1" + "W2" for two-stage models, to provide a call for heat.
- Using a leak detection solution or soap suds, check for leaks at inlet pressure boss plug screw (White-Rodgers valve). Bubbles forming indicate a leak. SHUT OFF GAS AND REPAIR ALL LEAKS IMMEDIATELY!
- 8. Measure the gas supply pressure with burners firing. Adjust supply pressure using the *Inlet Gas Supply Pressure* table shown below. If supply pressure reading differs from the table, make necessary adjustments to pressure regulator, gas piping size, etc., and/or consult with local gas utility.

| INLET GAS SUPPLY PRESSURE | | | | | | | | |
|---|--------------------|---------------------|--|--|--|--|--|--|
| Natural Gas | Minimum: 5.0" W.C. | Maximum: 10.0" W.C. | | | | | | |
| Propane Gas Minimum: 11.0" W.C. Maximum: 13.0" W.C. | | | | | | | | |

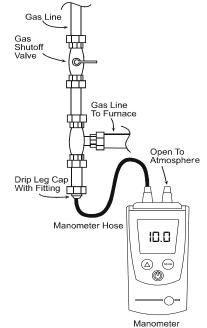
Inlet Gas Pressure Must be within the Minimum and Maximum Value Shown in Table Above.

- 9.Turn OFF all electrical power and gas supply to the system.
- 10.Remove the manometer hose from the hose barb fitting or inlet pressure boss.
- 11.Replace inlet pressure tap:

White-Rodgers 36J22 or 36G54 valve:

Turn inlet pressure test screw in to seal pressure port (clockwise, 7 in-lb minimum).

- 12.Retest for leaks. If bubbles form, SHUT DOWN GAS AND REPAIR LEAKS IMMEDIATELY.
- 13.Turn ON electrical power and gas supply to the system.
- 14.Turn valve switch ON.



Measuring Inlet Gas Pressure - Alternate Method

GAS MANIFOLD PRESSURE MEASUREMENT AND ADJUSTMENT



TO PREVENT UNRELIABLE OPERATION OR EQUIPMENT DAMAGE, THE INLET GAS SUPPLY PRESSURE MUST BE AS SPECIFIED ON THE UNIT RATING PLATE WITH ALL OTHER HOUSEHOLD GAS FIRED APPLIANCES OPERATING.

HIGH VOLTAGE

DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



This value is shipped from the factory with the regulator preset (see control label).

Consult the appliance rating plate to ensure burner manifold pressure is as specified. If another outlet pressure is required, follow these steps.

- 1. Turn OFF gas to furnace at the manual gas shutoff valve external to the furnace.
- 2. Turn OFF all electrical power to the system.
- 3. Outlet pressure tap connections:

White-Rodgers 36J22 or 36G54 valve:

Back outlet pressure test screw (outlet pressure boss) out one turn (counterclockwise, not more than one turn).

- 4. Attach a hose and manometer to the outlet pressure boss (White-Rodgers valve).
- 5. Turn ON the gas supply.
- 6. Turn ON power and place unit into a heating cycle.

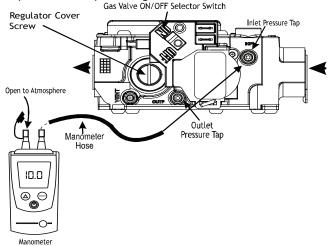
Single Stage Models (White-Rodgers 36J22 valves): Close thermostat "R" and "W" contacts.

Two-Stage Models (White-Rodgers 36G54 valve): Close thermostat contacts "R" and "W1" contacts for low heat stage heating ONLY; do not energize high stage heat.

- Using a leak detection solution or soap suds, check for leaks at outlet pressure boss plug screw (White-Rodgers valve). Bubbles forming indicate a leak. SHUT OFF GAS AND REPAIR ALL LEAKS IMMEDIATELY!
- 8. Measure the gas manifold pressure with burners firing. Adjust manifold pressure using the *Manifold Gas Pressure* table.
- 9. Regulator adjustment:

Single Stage Models (White-Rodgers 36J22 valves):

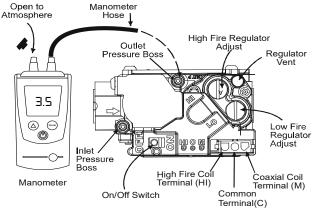
Remove regulator cover screw from the outlet pressure regulator and turn screw clockwise to increase pressure or counterclockwise to decrease pressure. Replace regulator cover screw.



White-Rodgers Model 36J22 Connected to Manometer

Two-Stage Models (White-Rodgers 36G54 valve):

Remove regulator cover screw from the low (LO) outlet pressure regulator adjust tower and turn screw clockwise to increase pressure, or counterclockwise to decrease pressure.



White-Rodgers Model 36G54 Connected to Manometer

Energize the "R", "W1", and "W2" contacts for high stage heat. Remove regulator cover screw from the HI outlet pressure regulator adjust tower and turn screw clockwise to increase pressure or counterclockwise to decrease pressure.

| Manifold Gas Pressure | | | | | | | | | |
|-----------------------|----------------------|------------------|------------|--|--|--|--|--|--|
| | Gas | Range | Nominal | | | | | | |
| Notural | Low Stage | 1.6 - 2.2" w.c. | 2.0" w.c. | | | | | | |
| Natural | High or Single Stage | 3.2 - 3.8" w.c. | 3.5" w.c. | | | | | | |
| | Low Stage | 5.7 - 6.3" w.c. | 6.0" w.c. | | | | | | |
| LP | High or Single Stage | 9.7 - 10.3" w.c. | 10.0" w.c. | | | | | | |

- 10.Turn OFF all electrical power and gas supply to the system.
- 11. Remove the manometer hose from the hose barb fitting or outlet pressure boss.
- 12.Replace outlet pressure tap:

White-Rodgers 36J22 or 36G54 valve: Turn outlet pressure test screw in to seal pressure port (clockwise, 7 in-lb minimum).

- 13. Turn ON electrical power and gas supply to the system.
- 14.Close thermostat contacts to provide a call for heat.
- 15.Retest for leaks. If bubbles form, SHUT OFF GAS AND REPAIR ALL LEAKS IMMEDIATELY!

Gas BTU Input (Natural Gas Only) Check

To measure the gas input use a gas meter and proceed as follows:

- 1. Turn off gas supply to all other appliances except the unit.
- 2. With the unit operating, time the smallest dial on the meter for one complete revolution. If this is a 2 cubic foot dial, divide the seconds by 2; if it is a 1 cubic foot dial, use the seconds as is. This gives the seconds per cubic foot of gas being delivered to the unit.
- 3. INPUT=GAS HTG VALUE x 3600 / SEC. PER CUBIC FOOT

Example: Natural gas with a heating value of 1000 BTU per cubic foot and 34 seconds per cubic foot as determined by Step 2, then:

Input = $1000 \times 3600 / 34 = 106,000$ BTU per Hour. **NOTE:** BTU content of the gas should be obtained from the gas supplier. This measured input must not be greater than shown on the unit rating plate.

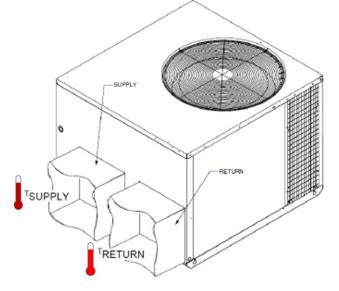
4. Relight all other appliances turned off in step 1. Be sure all pilot burners are operating.

Main Burner Flame Check

Flames should be stable, soft and blue (dust may cause orange tips but they must not be yellow) and extending directly outward from the burner without curling, floating or lifting off.

Temperature Rise Check

Check the temperature rise through the unit by placing thermometers in supply and return air registers as close to the unit as possible. Thermometers must not be able to sample temperature directly from the unit heat exchangers, or false readings could be obtained.



Checking Temperature Rise

- 1. All registers must be open; all duct dampers must be in their final (fully or partially open) position and the unit operated for 15 minutes before taking readings.
- 2. The temperature rise must be within the range specified on the rating plate.

NOTE: Air temperature rise is the temperature difference between supply and return air.

With a properly designed system, the proper amount of temperature rise will normally be obtained when the unit is operated at rated input with the recommended blower speed.

If the correct amount of temperature rise is not obtained, it may be necessary to change the blower speed. A higher blower speed will lower the temperature rise. A slower blower speed will increase the temperature rise.

NOTE: Blower speed MUST be set to give the correct air temperature rise through the unit as marked on the rating plate.

External Static Pressure Check

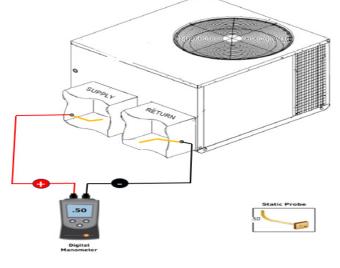
The total external static pressure must be checked on this unit to determine if the airflow is proper.

Total External Static Testing

- 1. Using a digital manometer measure the static pressure of the return duct at the inlet of the unit (Negative Pressure).
- 2. Measure the static pressure of the supply duct (Positive Measure).
- 3. Add the two readings together.

NOTE: Both readings may be taken simultaneously and read directly on the manometer if so desired.

4. Consult proper table for quantity of air. If the external static pressure exceeds the minimum or maximum allowable statics. Check for closed dampers, dirty filters, undersized or poorly laid out ductwork.



Blower Speed Adjustments



To avoid personal injury or death due to electric shock, remove electrical power from the unit before changing speed taps on the blower motor.

Refer to the wiring diagram in the appendix to verify speed tap settings.

All models are equipped with EEM motors. EEM motors are constant torque motors with very low power consumption. This motor is energized by 24V. Adjust the CFM for the unit by changing the 24V low voltage leads to the speed terminal block on the motor.

Single Stage Models:

| Heating-White Lead | Cooling-Yellow Lead |
|--------------------|---------------------|
| T1 - Low Speed | T4 - Low Speed |
| T2 - Medium Speed | T5 - High Speed |
| T3 - High Speed | |

Two Stage Models:

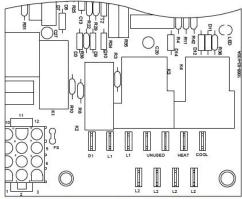
| | HEATING | | COOLING | | | |
|--------------|--------------------------|-------|--------------|------------------------------|---------------|--|
| Speed Tap | Definition Lead Color | | Speed Tap | Definition | Lead Color | |
| T1 | Low Speed Heat | | Т3 | Low Speed Cool | Purple | |
| T2 | High Speed Heat | Scown | | High Speed Cool | Yellow | |
| | | | T5 | High Speed Cool Hi-Static | | |

NOTE: Heating airflow must be adjusted to provide the temperature rise shown on rating plate.

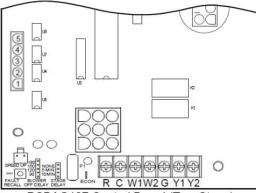
Limit Check

Check limit control operation after 15 minutes of operation by blocking the return air grille(s).

- 1. After several minutes the main burners must go OFF. Blower will continue to run.
- 2. Remove air restrictions and main burners will relight after a cool down period of a few minutes.
- Adjust the thermostat setting below room temperature.
- 1. Main burners must go OFF.
- Circulating Air Blower will continue to run for 120, 135 or 150 seconds, (single stage models) or 90, 120, 150, or 180 seconds (two-stage models), depending on the setting.



PCBAG123 Control Board (Single Stage)



PCBAG127 Control Board (Two-Stage)

NOTE: If necessary, adjust fan OFF delay settings to obtain satisfactory comfort level.



THIS UNIT MUST NOT BE USED AS A "CONSTRUCTION HEATER" DURING THE FINISHING PHASES OF CONSTRUCTION ON A NEW STRUCTURE. THIS TYPE OF USE MAY RESULT IN PREMATURE FAILURE OF THE UNIT DUE TO EXTREMELY LOW RETURN AIR TEMPERATURES AND EXPOSURE TO CORROSIVE OR VERY DIRTY ATMOSPHERES.

Unit Shutdown

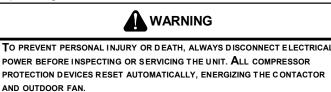
- 1. Set the thermostat to lowest setting.
- 2. Turn off the electrical power supply to the unit.
- 3. Remove the heat exchanger door on the side of the unit by removing screws.
- 4. Move the gas control valve switch to the OFF position. Do not force.
- 5. Close manual gas shutoff valve external to the unit.
- 6. Replace the heat exchanger door on the unit.
- 7. If cooling and/or air circulation will be desired, turn ON the electrical power.

COOLING STARTUP

NOTE: Check all manual reset limit controls in heating circuit if cooling mode does not operate.

Compressor Protection Devices

The compressor includes components which are designed to protect the compressor against abnormal operating conditions.



RDS Function

The mitigation system is a stationary device that detects the presence of R-32 refrigerant above 25% LFL using refrigerant sensors and then initiates mitigation actions. The mitigation system's primary function is to reduce the concentration of leaked R-32 refrigerant to prevent serious safety hazards. The mitigation actions are accomplished by halting HVAC operation and continuing indoor blower operation to provide airflow. Once refrigerant concentration reaches below a safe threshold, the unit will remain in mitigation mode for five minutes to evacuate any remaining R-32 refrigerant within the unit. Upon completion, the unit will resume its normal operation.

RDS Operation

The mitigation system is controlled by a refrigerant sensor(s), which is secured to a designated location(s) for active monitoring. If a leak is detected, HVAC operation is disabled and the indoor blower fan is activated, providing airflow at or above minimum required airflow to evacuate excess concentration. If a Zone Control system is installed in the ductwork attached to this system, the Zone controller must be powered through a Daikin Zoning/Accessory PCB to ensure that the Zoning Dampers open during mitigation mode to provide ventilation throughout all ducting. Once sensor(s) read concentration levels below a safe threshold, a five-minute timer will initiate. Once the time is over, the unit will resume back to its normal operation. If the sensor(s) detect another concentration excess, the unit will go back into mitigation mode and will repeat the same process.

Refrigerant Charge Check

After completing airflow measurements and adjustments the unit's refrigerant charge must be checked. The unit comes factory charged, but this charge is based on 325 CFM per ton and minimum ESP per AHRI test conditions (generally between .15 -.28 ESP). When air quantity or ESP is different than above, the refrigerant charge must be adjusted to the proper amount. All package units with fixed orifice devices are charged using the super heat method at the compressor suction line.

After superheat is adjusted it is recommended to check unit sub-cooling at the condenser coil liquid line out. For charge adjustments, see superheat and sub-cooling charts shown for each model. See superheat chart below.

CHECKING SUBCOOLING

NOTE: Units with a TXV should be charged to Subcooling only.

SUBCOOLING FORMULA = SATURATED LIQUID LINE TEMPERATURE - LIQUID LINE TEMPERATURE

EXAMPLE:

- a. Liquid Line Pressure = 417 PSI
- b. Corresponding Temp. = 120°F
- c. Thermometer on Liquid line = 109°F.

To obtain the amount of subcooling, subtract 109°F from 120°F. The difference is 11° subcooling. See the specification sheet or technical information manual for the design subcooling range for your unit.

CHECKING SUPERHEAT

EXAMPLE:

- a. Suction Pressure = 143 PSI
- b. Corresponding Temp. = 50°F
- c. Thermometer on Suction Line = 59°F

To obtain the degrees temperature of superheat, subtract 50.0 from 59.0°F. The difference is 9° Superheat. The 9° Superheat would fall in the \pm range of allowable superheat.

SUPERHEAT = SUCTION LINE TEMP - SAT. SUCTION TEMP.

Superheat Adjustment

NOTE: Superheat adjustments should not be made until indoor ambient conditions have stabilized. This could take up to <u>24 hours</u> depending on indoor temperature and humidity. Before checking superheat run the unit in cooling for <u>10-15</u> minutes or until refrigerant pressures stabilize. Use the following guidelines and methods to check unit operation and ensure that the refrigerant charge is within limits.

For TXV systems, to adjust superheat, unscrew the cover from the expansion valve, locate the adjustment screw, and turn it clockwise (in) to increase superheat or counterclockwise (out) to decrease superheat. It is recommended to make small adjustments at a time, 1/8-1/4 turn increments. Replace adjustment cap. Wait a minimum of 10 minutes between adjustments to allow time for the TXV and pressures to stabilize.

Refrigerant Charge Check

NOTE: For optimal performance, follow charging instructions below.

(Units with Fixed Orifice Devices)

All package units with fixed orifice devices are charged using the superheat method at the compressor suction line. To increase super heat, remove charge and to decrease super heat, add charge. After superheat is adjusted, it is recommended to check unit subcooling at the condenser coil liquid line. See Design Superheat and Subcooling table for targets on each model.

(Units with Expansion valve (TXV))

Single Stage Cooling Application: Refer to the Design Superheat & Subcooling table

Two-Stage Cooling Application: Run unit on Low Stage cooling and refer to Design Superheat & Subcooling table.

- 1. Purge gauge lines. Connect service gauge manifold to access fittings. Run system at least 10 minuets to allow pressure to stabilize.
- 2. Temporarily install thermometer on liquid (small) line near liquid line access fitting with adequate contact and insulate for best possible reading.
- 3. Check subcooling and superheat. System should have a subcooling and superheat within the range listed on the Design Superheat and Subcooling table.
- a. If subcooling and superheat are low, adjust TXV superheat, then check subcooling.

NOTE: To adjust superheat, turn the valve stem clockwise to increase and counterclockwise to decrease.

- b. If subcooling is low and superheat is high, add charge to raise subcooling then check superheat.
- c. If subcooling and superheat are high, adjust TXV valve superheat, then check subcooling.
- d. If subcooling is high and superheat is low, adjust TXV valve superheat and remove charge to lower the subcooling.

NOTE: Do NOT adjust the charge based on suction pressure unless there is a gross undercharge.

| 4. Disconnect manifold set | , installation is complete. |
|----------------------------|-----------------------------|
|----------------------------|-----------------------------|

| | Design Superheat & Subcool | | | | | | | | | | |
|--------------|----------------------------|----------|---------------------|---------|---------|--|--|--|--|--|--|
| | Superhe | Subcooli | Expansion | Cooling | Outdoor | | | | | | |
| Model | at | ng | Expansion Device | Stage | Ambient | | | | | | |
| | ±2°F | ±1°F | Device | Stage | (°F) | | | | | | |
| DP3GM24***31 | 9 | - | Piston | high | 95 | | | | | | |
| DP3GM30***31 | 9 | - | Piston | high | 95 | | | | | | |
| DP3GM36***31 | 7 | - | Piston | high | 95 | | | | | | |
| DP3GM42***31 | 14 | - | Piston | high | 95 | | | | | | |
| DP3GM48***31 | 11 | - | Piston | high | 95 | | | | | | |
| DP3GM60***31 | 14 | 4 | TXV | low | 82 | | | | | | |

Charging Procedures

In addition to conventional charging procedures, the following requirements shall be followed.

- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
- Cylinders shall be kept in an appropriate position according to the instructions.
- Ensure that the REFRIGERATING SYSTEM is earthed prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the REFRIGERATING SYSTEM.

Prior to recharging the system, it shall be pressuretested with the appropriate purging gas. The system shall be leak-tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site

<u>Recovery</u>

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.

When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge is available. All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs. The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of the flammable refrigerant. If in doubt, the manufacturer should be consulted. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition.

The recovered refrigerant shall be processed according to local legislation in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The compressor body shall not be heated by an open flame or other ignition sources to accelerate this process. When oil is drained from a system, it shall be carried out safely."

Cooling Operation

NOTE: Mechanical cooling cannot be reliably provided at ambient temperatures below 60° F.

- 1. Turn on the electrical power supply to the unit.
- 2. Place the room thermostat selector switch in the COOL position (or AUTO if available, and if automatic changeover from cooling to heating is desired).
- 3. Set the room thermostat to the desired temperature.

TROUBLESHOOTING

IGNITION CONTROL ERROR CODES

The following presents probable causes of questionable unit operation. Refer to *Diagnostic Indicator Chart* for an interpretation of the signal and to this section for an explanation.

Remove the control box access panel and note the number of diagnostic LED flashes. Refer to *Diagnostic Indicator Chart* for an interpretation of the signal and to this section for an explanation.

Fault Recall (Two-Stage Models ONLY)

The ignition control is equipped with a momentary pushbutton switch that can be used to display on the diagnostic LED the last five faults detected by the control. The control must be in Standby Mode (no thermostat inputs) to use the feature. Depress the push-button switch for approximately 2 seconds. **NOTE: Do not hold for longer than 4 seconds. Holding the button for 4 seconds or higher will erase the memory!** Release the switch when the LED is turned off. The diagnostic LED will then display the flash codes associated with the last five detected faults. The order of display is the most recent fault to the least recent fault.

ABNORMAL OPERATION - HEATING

Internal Control Failure

If the integrated ignition control in this unit encounters an internal fault, it will go into a "hard" lockout and turn off the diagnostic LED. If diagnostic LED indicates an internal fault, check power supply to unit for proper voltage, check all fuses, circuit breakers and wiring. Disconnect electric power for five seconds. If LED remains off after restoring power, replace control.

External Lockout

An external lockout occurs if the integrated ignition control determines that a measurable combustion cannot be established within three (3) consecutive ignition attempts. If flame is not established within the seven (7) second trial for ignition, the gas valve is de-energized, 15 second interpurge cycle is completed, and ignition is reattempted. The control will repeat this routine three times if a measurable combustion is not established. The control will then shut off the induced draft blower and go into a lockout state.

If flame is established but lost, the control will energize the circulator blower at the heat speed and then begin a new ignition sequence. If flame is established then lost on subsequent attempts, the control will recycle for four (4) consecutive ignition attempts (five attempts total) before locking out.

The diagnostic fault code is 1 flash for a lockout due to failed ignition attempts or flame dropouts. The integrated control will automatically reset after one hour, or it can be reset by removing the thermostat signal or disconnecting the electrical power supply for over five seconds. If the diagnostic LED indicates an external lockout, perform the following checks:

- Check the supply and manifold pressures
- Check the gas orifices for debris
- Check gas valve for proper operation
- Check secondary limit

A dirty filter, excessive duct static, insufficient air flow, a faulty limit, or a failed circulator blower can cause this limit to open. Check filters, total external duct static, circulator blower motor, blower motor speed tap (see wiring diagram), and limit. An interruption in electrical power during a heating cycle may also cause the auxiliary limit to open. The automatic reset secondary limit is located on top of the circulator blower assembly.

Check rollout limit

If the burner flames are not properly drawn into the heat exchanger, the flame rollout protection device will open. Possible causes are restricted or blocked flue passages, blocked or cracked heat exchanger, a failed induced draft blower, or insufficient combustion air. The rollout protection device is a manual reset limit located on the burner bracket. The cause of the flame rollout must be determined and corrected before resetting the limit.

Check flame sensor

A drop in flame signal can be caused by nearly invisible coating on the sensor. Remove the sensor and carefully clean with steel wool. Check wiring

Check wiring for opens/shorts and miswiring. **Important:** If you have to frequently reset your gas/ electric package unit, it means that a problem exists that should be corrected. Contact a qualified servicer for further information.

Pressure Switch Stuck Open

A pressure switch stuck open can be caused by a faulty pressure switch, faulty wiring, a disconnected or damaged hose, a blocked or restricted flue, or a faulty induced draft blower.

If the control senses an open pressure switch during the pre-purge cycle, the induced draft blower only will be energized. If the pressure switch opens after ignition has begun the gas valve is de-energized, the circulator blower heat off cycle begins, and the induced draft blower remains on. The diagnostic fault code is two flashes.

Pressure Switch Stuck Closed

A stuck closed pressure switch can be caused by a faulty pressure switch or faulty wiring. If the control encounters a pressure switch stuck closed, the induced draft blower remains off. The diagnostic LED code for this fault is three (3) flashes.

Open Thermal Protection Device

If the primary limit switch opens, the gas valve is immediately de-energized, the induced draft and air circulating blowers are energized. The induced draft and air circulator blowers remain energized until the limit switch recloses. The diagnostic fault code for an open limit is four (4) flashes.

A primary limit will open due to excessive supply air temperatures. This can be caused by a dirty filter, excessive duct static, insufficient air flow, or a faulty limit. Check filters, total external duct static, blower motor, blower motor speed tap (see wiring diagram), and limit. This limit will automatically reset once the temperature falls below a preset level.

Primary Limit

A primary limit will open due to excessive supply air temperatures. This can be caused by a dirty filter, excessive duct static, insufficient air flow, or a faulty limit. Check filters, total external duct static, blower motor, blower motor speed tap (see wiring diagram), and limit. This limit will automatically reset once the temperature falls below a preset level.

Auxiliary/Secondary Limit

A dirty filter, excessive duct static, insufficient air flow, a faulty limit, or a failed circulator blower can cause this limit to open. Check filters, total external duct static, circulator blower motor, blower motor speed tap (see wiring diagram), and limit. An interruption in electrical power during a heating cycle may also cause the auxiliary limit to open. The automatic reset secondary limit is located on top of the circulator blower assembly.

<u>Rollout Limit</u>

If the burner flames are not properly drawn into the heat exchanger, the flame rollout protection device will open. Possible causes are restricted or blocked flue passages, blocked or cracked heat exchanger, a failed induced draft blower, or insufficient combustion air. The rollout protection device is a manual reset limit located on the burner bracket. The cause of the flame rollout must be determined and corrected before resetting the limit.

Flame Detected with Gas Valve Closed

If flame is detected with the gas valve de-energized, the combustion and air circulator blowers are energized. The diagnostic fault code is five (5) flashes for this condition. The control can be reset by removing the power supply to the unit or it will automatically reset after one hour. Miswiring is the probable cause for this fault.

Low Flame Signal (Two-Stage Models ONLY)

Under some conditions, the fuel or air supply can create a nearly invisible coating on the flame sensor. This coating acts as an insulator causing a drop in the flame signal. If the flame signal drops below a predetermined value, the ignition control will display an error code of (1) flash on the amber diagnostic LED. The unit will continue to operate until the control can no longer detect flame.

ABNORMAL OPERATION - COOLING

Short Cycle Compressor Delay

The automatic ignition control has a built-in feature that prevents damage to the compressor in short cycling situations. In the event of intermittent power losses or intermittent thermostat operation, the ignition control will delay output to the compressor contactor for three minutes from the time power is restored. (Compressor is off a total of three minutes). The diagnostic LED will flash six (6) times to indicate the compressor contactor output is being delayed.

NOTE: Some electronic thermostats also have a built-in compressor short cycle timer that may be longer than the three minute delay given above. If you are using an electronic thermostat and the compressor has not started after three minutes, wait an additional five minutes to allow the thermostat to complete its short cycle delay time.

High Pressure Switch/Low Pressure Switch (5 Ton Models ONLY)

Some models include a high pressure cutout switch and/ or a loss of charge cutout switch. The high pressure cutout switch protects the refrigeration system from excessive operating pressures. The loss of charge cutout switch protects the refrigeration system from very low operating pressures due to a loss of refrigerant. Compressor operation will be disabled if either of these devices opens. If either device opens, the diagnostic red LED will flash (9) times to indicate that a refrigeration system pressure switch is open.

REFRIGERANT DETECTION SYSTEM

| | warning; flammable materials |
|---|---|
| | service indicator; read technical manual |
| i | operator's manual; operating instructions |
| | warning; low burning velocity material |
| | UN GHS flame symbol |

| LED STATUS | | | | | | | | |
|-----------------------------|---|--|--|--|--|--|--|--|
| MODE | LED FLASHING PATTERN | | | | | | | |
| NORMAL OPERATION | SLOW LED FLASHING PATTERN (2 SECONDS ON 2 SECONDS OFF) | | | | | | | |
| R-32 LEAK ALARM | FAST LED FLASHING PATTERN | | | | | | | |
| DELAY MODE | LED WILL BE ON CONTINUOUSLY | | | | | | | |
| SYSTEM VERIFICATION MODE | FAST LED FLASHING PATTERN | | | | | | | |
| CONTROL BOARD | LED WILL FLASH 2 TIMES AND THEN BE OFF FOR 5 SECONDS | | | | | | | |
| R32 SENSOR | LED WILL FLASH 3 TIMES AND THEN BE OFF FOR 5 SECONDS | | | | | | | |
| R32 SENSOR FAULT | LED WILL FLASH 4 TIMES AND THEN BE OFF FOR 5 SECONDS | | | | | | | |

Servicing Measures for the Refrigerant Detection system:

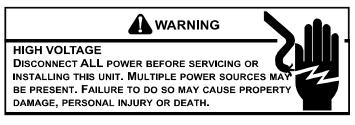
Before servicing, identify the mode of operation of the system by reading the LED flashing pattern on the PCB within the control box and matching the LED flashing pattern with mode of operation in the A2L PCB fault code table on the wiring diagram which is attached on the back side of the control box panel.

REFRIGERANT SENSORS for REFRIGERANT DETECTION SYSTEMS shall only be replaced

with sensors specified by the manufacturer. If REFRIGERANT SENSOR requires replacement, please replace with Sensata R32 Sensor PN#RGD-00ML12 (Daikin PN#SER2A08011).

For aluminum indoor coil cleaning , the A2L sensor must be removed from the unit before applying coil cleaners to avoid damage and contamination.

MAINTENANCE



Have the gas heating section of the unit checked at least once a year before the heating season begins, to be sure that the combustion air inlet and flue outlet hoods are not blocked by debris, which would prevent adequate combustion air and a properly operating vent system.

FILTER REPLACEMENT OR CLEANING

A return air filter is not supplied with this unit; however, there must be a means of filtering all of the return air. The filter(s) may be located in the return air duct(s), or return air filter grille(s). Consult with your installing dealer for the actual location of the return air filter(s) for your unit. Dirty filters are the most common cause of inadequate heating or cooling performance. Filter inspection should be made at least every two months; more often if necessary because of local conditions and usage.

Dirty throwaway filters should be discarded and replaced with a new, clean filter. Dirty permanent filters should be washed with water, thoroughly dried and sprayed with a filter adhesive before being reinstalled. (Filter adhesives may be found at many hardware stores.) Permanent filters should last several years. However, should one become torn or uncleanable, it should be replaced.

CABINET FINISH MAINTENANCE

Use a fine grade automotive wax on the cabinet finish to maintain the finish's original high luster. This is especially important in installations with extended periods of direct sunlight.

CLEAN OUTSIDE COIL (QUALIFIED SERVICER ONLY)

The coil with the outside air flowing over it should be inspected annually and cleaned as frequently as necessary to keep the finned areas free of lint, hair and debris.

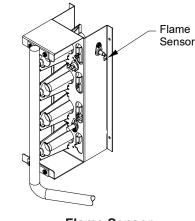
Condenser, Evaporator, and Induced Draft Motors

Bearings on the air circulating blower motor, condenser motor and the combustion fan motor are permanently lubricated. No additional oiling is required.

FLAME SENSOR (QUALIFIED SERVICER ONLY)

A drop in the flame current can be caused by a nearly invisible coating on the flame sensor. This coating, created by the fuel or combustion air supply, can be removed by carefully cleaning the flame sensor with steel wool.

NOTE: After cleaning, the microamp signal should be stable and in the range of 4 - 6 microamps DC.



Flame Sensor

FLUE PASSAGES (QUALIFIED SERVICER ONLY)

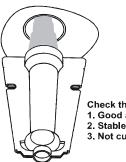
At the start of each heating season, inspect and, if necessary, clean the unit flue passage.

CLEANING FLUE PASSAGES (QUALIFIED SERVICER ONLY)

- 1. Shut off electric power and gas supply to the unit.
- 2. Remove burner assembly by disconnecting the gas line and removing the manifold bracket from the partition panel.
- 3. Remove the flue from the induced draft blower and the collector box cover from the partition panel.
- 4. The primary heat exchanger tubes can be cleaned using a round wire brush attached to a length of high grade stainless steel cable, such as drain cleanout cable. Attach a variable speed reversible drill to the other end of the spring cable. Slowly rotate the cable with the drill and insert it into one of the primary heat exchanger tubes. While reversing the drill, work the cable in and out several times to obtain sufficient cleaning. Use a large cable for the large tube, and then repeat the operation with a small cable for the smaller tube. Repeat for each tube.
- 5. When all heat exchanger tubes have been cleaned, replace the parts in the reverse order in which they were removed.
- 6. To reduce the chances of repeated fouling of the heat exchanger, perform the steps listed in "Startup, Adjustments, and Checks".

MAIN BURNER FLAME (QUALIFIED SERVICER ONLY)

Flames should be stable, soft and blue (dust may cause orange tips but must not be yellow). The flames must extend directly outward from the burner without curling, floating or lifting off.



Check the burner flames for: 1. Good adjustment 2. Stable, soft and blue 3. Not curling, floating, or lifting off.

Burner Flame

To avoid personal injury or death due to electric shock, do not remove any internal compartment covers or attempt any adjustment. Contact a qualified servicer at once if an abnormal flame should develop.

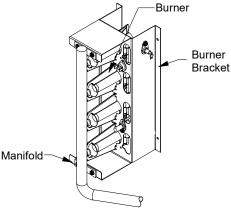
At least once a year, prior to or during the heating season, make a visual check of the burner flames.

NOTE: This will involve removing and reinstalling the heat exchanger door on the unit, which is held by two screws. If you are uncertain about your ability to do this, contact a qualified servicer.

If a strong wind is blowing, it may alter the airflow pattern within the unit enough that an inspection of the burner flames is not possible.

CLEANING BURNERS

- 1. Shut off electric power and gas supply to the unit.
- 2. Remove the screws securing the manifold to the burner retention bracket. Remove the manifold and rotate each burner counterclockwise to remove.



Manifold Assembly

- 3. Remove the burners.
- 4. Use a bottle brush to clean burner insert and inside of the burners.
- 5. Replace burners and manifold, inspect the burner assembly for proper seating of burners in retention slots.
- 6. Reconnect electrical power and gas supply.



LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION.



ALWAYS VERIFY PROPER OPERATION AFTER SERVICING.

For further information on the yearly inspection, consult the User Manual. It is recommended that a qualified servicer inspect and service the unit at least once each year.

Turn the unit on at the thermostat. Wait a few minutes, since any dislodged dust will alter the normal flame appearance. Flames should be predominantly blue and directed into the tubes. They should not be yellow. They should extend directly outward from the burner ports without curling downward, floating or lifting off the ports.

ACCESSORIES AND FUNCTIONAL PARTS

SHEET METAL ACCESSORIES

Additional accessories can be purchased to fit specific application needs. Parts and instructions are available from your distributor.

FUNCTIONAL PARTS

| FUNCTIONAL PARTS | | | | | | | | |
|-------------------------|------------------------------|--|--|--|--|--|--|--|
| Auxiliary Limit Switch | Flame Roll-out Switch | | | | | | | |
| Blower Housing | Flame Sensor | | | | | | | |
| Circulator Blower Motor | Gas Orifice | | | | | | | |
| Blower Wheel | Gas Valve | | | | | | | |
| Burner | Heat Exchanger | | | | | | | |
| Capacitor | High Limit Switch | | | | | | | |
| Compressor | Igniter | | | | | | | |
| Condenser Coil | Ignition Control | | | | | | | |
| Condenser Fan Blade | Induced Draft Blower | | | | | | | |
| Condenser Fan Motor | Pressure Switch | | | | | | | |
| Contactor | Pressure Switch Hose | | | | | | | |
| Gas Manifold | Thermostatic Expansion Valve | | | | | | | |
| Evaporator Coil | Transformer | | | | | | | |

Functional Parts List

GENERAL INFORMATION

- 1. Refer to the description in Functional Parts List when ordering any of the listed functional parts. Be sure to provide the unit model and serial numbers with the order.
- 2. Although only functional parts are shown, all sheet metal parts, doors, etc. may be ordered by description.
- 3. Parts are available from your distributor.

BLOWER PERFORMANCE DATA - SINGLE PHASE

| | DP3GM2404031** - Rise Range: 25° - 55° | | | | | | | | | | | | |
|--------|--|-------|------|------------------|-------|------|---------------------|-------|------------------------------------|------|-------|------|-------|
| E.S.P. | T1 HEATING SPEED T2 HEATING SPEED | | PEED | T3 HEATING SPEED | | | T4 COOLING SPEED | | T5 HIGH STATIC COOLING SPEED | | | | |
| | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | CFM | WATTS |
| 0.1 | 695 | 62 | 44 | 820 | 93 | 37 | 1050 | 167 | 29 | 1020 | 153 | 1119 | 208 |
| 0.2 | 650 | 71 | 47 | 785 | 100 | 39 | 1010 | 180 | 30 | 985 | 160 | 1110 | 216 |
| 0.3 | 605 | 77 | 51 | 745 | 108 | 41 | 970 | 186 | 32 | 946 | 168 | 1083 | 222 |
| 0.4 | 565 | 89 | 54 | 700 | 117 | 44 | 935 | 192 | 33 | 905 | 175 | 1052 | 229 |
| 0.5 | 480 | 99 | Х | 665 | 127 | 46 | 890 | 203 | 35 | 863 | 183 | 1017 | 237 |
| 0.6 | 415 | 106 | Х | 575 | 138 | 53 | 850 | 208 | 36 | 813 | 190 | 979 | 243 |
| 0.7 | 365 | 110 | Х | 510 | 146 | Х | 815 | 216 | 38 | 759 | 199 | 934 | 250 |
| 0.8 | 320 | 119 | Х | 455 | 155 | Х | 755 | 222 | 41 | 701 | 206 | 879 | 259 |

DP3GM2406031** - Rise Range: 30° - 60°

| E.S.P. | T1 HEATING SPEED | | T2 HI | EATING S | PEED | тз ні | EATING S | PEED | _ | oling Eed | coo | I STATIC LING EED | |
|--------|------------------|-------|-------|----------|-------|-------|----------|-------|------|--------------|-------|-------------------------|-------|
| | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | CFM | WATTS |
| 0.1 | 695 | 62 | Х | 820 | 93 | 56 | 1050 | 167 | 44 | 1020 | 153 | 1119 | 208 |
| 0.2 | 650 | 71 | Х | 785 | 100 | 59 | 1010 | 180 | 46 | 985 | 160 | 1110 | 216 |
| 0.3 | 605 | 77 | Х | 745 | 108 | Х | 970 | 186 | 48 | 946 | 168 | 1083 | 222 |
| 0.4 | 565 | 89 | Х | 700 | 117 | Х | 935 | 192 | 49 | 905 | 175 | 1052 | 229 |
| 0.5 | 480 | 99 | Х | 665 | 127 | Х | 890 | 203 | 52 | 863 | 183 | 1017 | 237 |
| 0.6 | 415 | 106 | Х | 575 | 138 | Х | 850 | 208 | 54 | 813 | 190 | 979 | 243 |
| 0.7 | 365 | 110 | Х | 510 | 146 | Х | 815 | 216 | 57 | 759 | 199 | 934 | 250 |
| 0.8 | 320 | 119 | Х | 455 | 155 | Х | 755 | 222 | Х | 701 | 206 | 879 | 259 |

| | | | | I | DP3GM30 | 04031** - | Rise Ran | ge: 25° - 5 | 55° | | | | |
|--------|-------|----------|------|-------|----------|-----------|----------|-------------|------|------|--------------|------------------------------------|-------|
| E.S.P. | T1 HE | EATING S | PEED | T2 HI | EATING S | PEED | T3 HI | EATING S | PEED | | oling Eed | T5 HIGH STATIC COOLING SPEED | |
| | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | CFM | WATTS |
| 0.1 | 680 | 61 | 45 | 840 | 103 | 37 | 1035 | 174 | 30 | 1202 | 246 | 1225 | 276 |
| 0.2 | 640 | 72 | 48 | 795 | 109 | 39 | 995 | 184 | 31 | 1173 | 251 | 1185 | 275 |
| 0.3 | 605 | 80 | 51 | 750 | 117 | 41 | 960 | 192 | 32 | 1143 | 258 | 1150 | 289 |
| 0.4 | 555 | 89 | Х | 710 | 126 | 43 | 925 | 205 | 33 | 1110 | 265 | 1115 | 296 |
| 0.5 | 490 | 93 | Х | 660 | 132 | 47 | 875 | 200 | 35 | 1073 | 272 | 1085 | 303 |
| 0.6 | 455 | 107 | Х | 615 | 138 | 50 | 840 | 217 | 37 | 1035 | 278 | 1045 | 312 |
| 0.7 | 395 | 109 | Х | 570 | 150 | 54 | 795 | 222 | 39 | 994 | 285 | 1000 | 315 |
| 0.8 | 350 | 119 | Х | 515 | 157 | Х | 755 | 226 | 41 | 947 | 293 | 960 | 320 |

DP3GM3006031** - Rise Range: 30° - 60°

| | | | | | | | | - | | | | | |
|--------|-------|----------|------|-------|----------|------|-------|----------|------|------|--------------|------|-------------------------|
| E.S.P. | T1 HI | EATING S | PEED | T2 HI | EATING S | PEED | T3 HE | EATING S | PEED | - | oling Eed | coo | I STATIC LING EED |
| | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | CFM | WATTS |
| 0.1 | 680 | 61 | Х | 840 | 103 | 55 | 1035 | 174 | 45 | 1202 | 246 | 1225 | 276 |
| 0.2 | 640 | 72 | Х | 795 | 109 | 58 | 995 | 184 | 46 | 1173 | 251 | 1185 | 275 |
| 0.3 | 605 | 80 | Х | 750 | 117 | Х | 960 | 192 | 48 | 1143 | 258 | 1150 | 289 |
| 0.4 | 555 | 89 | Х | 710 | 126 | Х | 925 | 205 | 50 | 1110 | 265 | 1115 | 296 |
| 0.5 | 490 | 93 | Х | 660 | 132 | Х | 875 | 200 | 53 | 1073 | 272 | 1085 | 303 |
| 0.6 | 455 | 107 | Х | 615 | 138 | Х | 840 | 217 | 55 | 1035 | 278 | 1045 | 312 |
| 0.7 | 395 | 109 | Х | 570 | 150 | Х | 795 | 222 | 58 | 994 | 285 | 1000 | 315 |
| 0.8 | 350 | 119 | Х | 515 | 157 | Х | 755 | 226 | Х | 947 | 293 | 960 | 320 |

BLOWER PERFORMANCE DATA - SINGLE/THREE PHASE

| | | | | | DP3GM360 | J4U31^^ - | Rise Rang | je: 25° - 55° | | | | | |
|--|--|---|---|--|--|---|---|---|---|---|--|--|--|
| E.S.P. | T1 H | IEATING SI | PEED | T2 HE | ATING SPE | | | ATING SPE | ED | | OLING EED | coo | I STATIC LING EED |
| | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | CFM | WATTS |
| 0.1 | 745 | 76 | 41 | 1115 | 206 | 28 | 1265 | 285 | Х | 1448 | 342 | 1440 | 426 |
| 0.2 | 690 | 84 | 45 | 1075 | 215 | 29 | 1230 | 290 | Х | 1403 | 343 | 1390 | 428 |
| 0.3 | 635 | 91 | 48 | 1030 | 221 | 30 | 1175 | 300 | 26 | 1358 | 354 | 1365 | 440 |
| 0.4 | 570 | 98 | 54 | 985 | 233 | 31 | 1140 | 303 | 27 | 1319 | 361 | 1335 | 440 |
| 0.5 | 505 | 107 | Х | 940 | 234 | 33 | 1100 | 311 | 28 | 1277 | 366 | 1295 | 456 |
| 0.6 | 450 | 115 | Х | 895 | 242 | 34 | 1055 | 319 | 29 | 1232 | 376 | 1255 | 456 |
| 0.7 | 395 | 118 | Х | 845 | 248 | 36 | 1010 | 326 | 30 | 1176 | 386 | 1220 | 465 |
| 0.8 | 345 | 126 | Х | 785 | 252 | 39 | 960 | 335 | 32 | 1120 | 395 | 1180 | 468 |
| | | | | | DP3GM360 | 06031** - | Rise Rang | je: 30° - 60° | | | | | |
| E.S.P. | T1 H | IEATING SI | PEED | T2 HE | ATING SPE | ED | T3 HE | ATING SPE | ED | | oling EED | coo | I STATIC LING EED |
| | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | CFM | WATTS |
| 0.1 | 745 | 76 | Х | 1115 | 206 | 41 | 1265 | 285 | 36 | 1448 | 342 | 1440 | 426 |
| 0.2 | 690 | 84 | Х | 1075 | 215 | 43 | 1230 | 290 | 37 | 1403 | 343 | 1390 | 428 |
| 0.3 | 635 | 91 | Х | 1030 | 221 | 45 | 1175 | 300 | 39 | 1358 | 354 | 1365 | 440 |
| 0.4 | 570 | 98 | Х | 985 | 233 | 47 | 1140 | 303 | 40 | 1319 | 361 | 1335 | 440 |
| 0.5 | 505 | 107 | Х | 940 | 234 | 49 | 1100 | 311 | 42 | 1277 | 366 | 1295 | 456 |
| 0.6 | 450 | 115 | Х | 895 | 242 | 52 | 1055 | 319 | 44 | 1232 | 376 | 1255 | 456 |
| 0.7 | 395 | 118 | Х | 845 | 248 | 55 | 1010 | 326 | 46 | 1176 | 386 | 1220 | 465 |
| 0.8 | 345 | 126 | Х | 785 | 252 | 59 | 960 | 335 | 48 | 1120 | 395 | 1180 | 468 |
| | | | | 0 | P3GM3608 | 8031/33** | - Rise Rar | nge: 30° - 60 | ° | | | | |
| E.S.P. | T1 H | IEATING SI | PEED | T2 HE | ATING SPE | EED | T3 HE | ATING SPE | ED | | OLING EED | coo | I STATIC LING EED |
| | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | CFM | WATTS |
| 0.1 | 745 | 76 | Х | 1115 | 206 | 55 | 1265 | 285 | 49 | 1448 | 342 | 1440 | 426 |
| 0.2 | 690 | 84 | Х | 1075 | 215 | 57 | 1230 | 290 | 50 | 1403 | 343 | 1390 | 428 |
| 0.3 | 635 | 91 | Х | 1030 | 221 | 60 | 1175 | 300 | 52 | 1358 | 354 | 1365 | 440 |
| 0.4 | 570 | 98 | Х | 985 | 233 | Х | 1140 | 303 | 54 | 1319 | 361 | 1335 | 440 |
| 0.5 | 505 | 107 | X | 940 | 234 | X | 1100 | 311 | 56 | 1277 | 366 | 1295 | 456 |
| 0.6 | 450 | 115 | X | 895 | 242 | X | 1055 | 319 | 58 | 1232 | 376 | 1255 | 456 |
| 0.7 | 395 345 | 118 126 | X X | 845 785 | 248 252 | X X | 1010 960 | 326 335 | X X | 1176 1120 | 386 395 | 1220 1180 | 465 468 |
| 0.0 | 340 | 120 | | 765 | | | | | | 1120 | 390 | 1160 | 400 |
| | | | | | DP3GM420 | 06031** - | Rise Rang | je: 30° - 60° | | | | | OTATIO |
| | | | | [| | | | | | | | | |
| E.S.P. | T1 H | IEATING SI | PEED | T2 HE | ATING SPE | | T3 HE | ATING SPE | ED | | oling EED | | |
| | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | RISE | SPI CFM | eed Watts | COO SPI CFM | LING EED WATTS |
| 0.1 | CFM 1055 | WATTS 156 | RISE 44 | CFM 1380 | WATTS 298 | RISE 33 | CFM 1415 | WATTS 327 | RISE 33 | SP CFM 1542 | WATTS 392 | COO SPI CFM 1637 | LING EED WATTS 444 |
| 0.1 0.2 | CFM 1055 1000 | WATTS 156 166 | RISE 44 46 | CFM 1380 1320 | WATTS 298 312 | RISE 33 35 | CFM 1415 1360 | WATTS 327 335 | RISE 33 34 | SPI CFM 1542 1494 | EED WATTS 392 403 | COO SPI CFM 1637 1593 | LING EED WATTS 444 454 |
| 0.1 0.2 0.3 | CFM 1055 1000 940 | WATTS 156 166 173 | RISE 44 46 49 | CFM 1380 1320 1270 | WATTS 298 312 318 | RISE 33 35 36 | CFM 1415 1360 1305 | WATTS 327 335 343 | RISE 33 34 35 | CFM 1542 1494 1437 | WATTS 392 403 409 | COO SPI CFM 1637 1593 1541 | LING EED WATTS 444 454 459 |
| 0.1 0.2 0.3 0.4 | CFM 1055 1000 940 880 | WATTS 156 166 173 181 | RISE 44 46 49 52 | CFM 1380 1320 1270 1220 | WATTS 298 312 318 327 | RISE 33 35 36 38 | CFM 1415 1360 1305 1260 | WATTS 327 335 343 353 | RISE 33 34 35 37 | CFM 1542 1494 1437 1392 | EED WATTS 392 403 409 419 | CFM 1637 1593 1541 1497 | LING EED WATTS 444 454 459 473 |
| 0.1 0.2 0.3 0.4 0.5 | CFM 1055 1000 940 880 825 | WATTS 156 166 173 181 189 | RISE 44 46 49 52 56 | CFM 1380 1320 1270 1220 1160 | WATTS 298 312 318 327 336 | RISE 33 35 36 38 40 | CFM 1415 1360 1305 1260 1200 | WATTS 327 335 343 353 353 359 | RISE 33 34 35 37 38 | CFM 1542 1494 1437 1392 1342 | EED WATTS 392 403 409 419 430 | CCPM CFM 1637 1593 1541 1497 1450 | LING EED WATTS 444 454 459 473 478 |
| 0.1 0.2 0.3 0.4 0.5 0.6 | CFM 1055 1000 940 880 825 760 | WATTS 156 166 173 181 189 204 | RISE 44 46 49 52 56 X | CFM 1380 1320 1270 1220 1160 1115 | WATTS 298 312 318 327 336 342 | RISE 33 35 36 38 40 41 | CFM 1415 1360 1305 1260 1200 1150 | WATTS 327 335 343 353 359 371 | RISE 33 34 35 37 38 40 | SP CFM 1542 1494 1437 1392 1342 1295 | EED WATTS 392 403 409 419 430 440 | COO SPI CFM 1637 1593 1541 1497 1450 1407 | LING EED WATTS 444 454 459 473 478 485 |
| 0.1 0.2 0.3 0.4 0.5 0.6 0.7 | CFM 1055 1000 940 880 825 760 705 | WATTS 156 166 173 181 189 204 207 | RISE 44 46 49 52 56 X X X | CFM 1380 1320 1270 1220 1160 1115 1060 | WATTS 298 312 318 327 336 342 347 | RISE 33 35 36 38 40 41 41 44 | CFM 1415 1360 1305 1260 1200 1150 1110 | WATTS 327 335 343 353 359 371 375 | RISE 33 34 35 37 38 40 42 | SP CFM 1542 1494 1437 1392 1342 1295 1238 | EED WATTS 392 403 409 419 430 440 440 447 | COO SPI CFM 1637 1593 1541 1497 1450 1407 1357 | LING EED WATTS 444 459 473 478 485 485 493 |
| 0.1 0.2 0.3 0.4 0.5 0.6 | CFM 1055 1000 940 880 825 760 | WATTS 156 166 173 181 189 204 | RISE 44 46 49 52 56 X | CFM 1380 1320 1270 1220 1160 1115 | WATTS 298 312 318 327 336 342 347 361 | RISE 33 35 36 38 40 41 44 44 46 | CFM 1415 1360 1305 1260 1200 1150 1110 1060 | WATTS 327 335 343 353 359 371 375 381 | RISE 33 34 35 37 38 40 | SP CFM 1542 1494 1437 1392 1342 1295 | EED WATTS 392 403 409 419 430 440 | COO SPI CFM 1637 1593 1541 1497 1450 1407 | LING EED WATTS 444 454 459 473 478 485 |
| 0.1 0.2 0.3 0.4 0.5 0.6 0.7 | CFM 1055 1000 940 880 825 760 705 625 | WATTS 156 166 173 181 189 204 207 | RISE 44 46 49 52 56 X X X X | CFM 1380 1320 1270 1220 1160 1115 1060 1000 | WATTS 298 312 318 327 336 342 347 361 | RISE 33 35 36 38 40 41 44 46 08031** - | CFM 1415 1360 1305 1260 1200 1150 1110 1060 Rise Rang | WATTS 327 335 343 353 359 371 375 | RISE 33 34 35 37 38 40 42 44 | SP CFM 1542 1494 1437 1392 1342 1295 1238 1183 1183 T4 CO | EED WATTS 392 403 409 419 430 440 440 447 | COO SPI CFM 1637 1593 1541 1497 1450 1407 1357 1304 T5 HIGH COO | LING EED WATTS 444 459 473 473 478 485 493 |
| 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 E.S.P. | CFM 1055 1000 940 880 825 760 705 625 71 H CFM | WATTS 156 166 173 181 189 204 207 210 EATING SI | RISE 44 46 49 52 56 X X X PEED RISE | CFM 1380 1320 1270 1220 1160 1115 1060 1000 T2 HE CFM | WATTS 298 312 318 327 336 342 347 361 DP3GM420 ATING SPE WATTS | RISE 33 35 36 38 40 41 44 46 08031** - EED RISE | CFM 1415 1360 1305 1260 1200 1150 1110 1060 Rise Rang T3 HE CFM | WATTS 327 335 343 353 359 371 375 381 ge: 30° - 60° CATING SPE WATTS | RISE 33 34 35 37 38 40 42 44 44 ED RISE | SPI CFM 1542 1494 1437 1392 1342 1295 1238 1183 T4 CO SPI CFM | EED WATTS 392 403 409 419 430 440 440 447 454 OLING EED | COO SPI CFM 1637 1593 1541 1497 1450 1407 1357 1304 T5 HIGH COO SPI CFM | LING EED WATTS 444 459 473 478 485 493 502 STATIC LING EED WATTS |
| 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 E.S.P. | CFM 1055 1000 940 880 825 760 705 625 71 H CFM 1055 | WATTS 156 166 173 181 189 204 207 210 EATING SI WATTS 156 | RISE 44 46 49 52 56 X X X PEED RISE 58 | CFM 1380 1320 1270 1220 1160 1115 1060 1000 T2 HE CFM 1380 | WATTS 298 312 318 327 336 342 347 361 DP3GM420 ATING SPE WATTS 298 | RISE 33 35 36 38 40 41 44 46 08031** - ED RISE 45 | CFM 1415 1360 1305 1260 1200 1150 1110 1060 Rise Rang T3 HE CFM 1415 | WATTS 327 335 343 353 359 371 375 381 ge: 30° - 60° CATING SPE WATTS 327 | RISE 33 34 35 37 38 40 42 44 44 ED RISE 43 | SPI CFM 1542 1494 1437 1392 1342 1295 1238 1183 T4 CO SPI CFM 1542 | EED WATTS 392 403 409 419 430 440 440 447 454 OLING EED WATTS 392 | COO SPI CFM 1637 1593 1541 1497 1450 1407 1357 1304 T5 HIGH COO SPI CFM 1637 | LING EED WATTS 444 459 473 478 485 493 502 STATIC LING EED WATTS 444 |
| 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 E.S.P. 0.1 0.2 | CFM 1055 1000 940 880 825 760 705 625 71 H CFM 1055 1000 | WATTS 156 166 173 181 189 204 207 210 EATING SI WATTS 156 166 | RISE 44 46 49 52 56 X X X PEED RISE 58 X | CFM 1380 1320 1270 1220 1160 1115 1060 1000 T2 HE CFM 1380 1320 | WATTS 298 312 318 327 336 342 347 361 DP3GM420 ATING SPE WATTS 298 312 | RISE 33 35 36 38 40 41 44 46 08031** - ED RISE 45 47 | CFM 1415 1360 1305 1260 1200 1150 1110 1060 Rise Rang CFM 1415 1360 | WATTS 327 335 343 353 359 371 375 381 ge: 30° - 60° EATING SPE WATTS 327 335 | RISE 33 34 35 37 38 40 42 44 44 ED RISE 43 45 | SP CFM 1542 1494 1437 1392 1342 1295 1238 1183 T4 CO SP CFM 1542 1494 | EED WATTS 392 403 409 419 430 440 447 454 OLING EED WATTS 392 403 | COO SPI CFM 1637 1593 1541 1497 1450 1407 1357 1304 T5 HIGH COO SPI CFM 1637 1593 | LING EED WATTS 444 459 473 478 485 493 502 STATIC LING EED WATTS 444 454 |
| 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 E.S.P. 0.1 0.2 0.3 | CFM 1055 1000 940 880 825 760 705 625 705 625 T1 H CFM 1055 1000 940 | WATTS 156 166 173 181 189 204 207 210 EATING SI WATTS 156 166 173 | RISE 44 46 49 52 56 X X X RISE 58 X X X | CFM 1380 1320 1270 1220 1160 1115 1060 1000 T2 HE CFM 1380 1320 1270 | WATTS 298 312 318 327 336 342 347 361 DP3GM420 ATING SPE WATTS 298 312 318 | RISE 33 35 36 38 40 41 44 46 08031** - ED RISE 45 47 48 | CFM 1415 1360 1305 1260 1200 1150 1110 1060 Rise Rang CFM 1415 1360 1305 | WATTS 327 335 343 353 359 371 375 381 set 30° - 60° cating Spe WATTS 327 335 343 | RISE 33 34 35 37 38 40 42 44 44 ED RISE 43 45 47 | SP CFM 1542 1494 1437 1392 1342 1295 1238 1183 T4 CO SP CFM 1542 1494 1437 | EED WATTS 392 403 409 419 430 440 447 454 OLING EED WATTS 392 403 409 | CCFM 1637 1593 1541 1497 1450 1407 1357 1304 T5 HIGH COO SPI CFM 1637 1593 1541 | LING EED WATTS 444 459 473 478 485 493 502 STATIC LING EED WATTS 444 454 459 |
| 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 E.S.P. 0.1 0.2 0.3 0.4 | CFM 1055 1000 940 880 825 760 705 625 T1 H CFM 1055 1000 940 880 | WATTS 156 166 173 181 189 204 207 210 IEATING SI WATTS 156 166 173 181 | RISE 44 46 49 52 56 X X X RISE 58 X X X X X X X X X X X X X X X X X X | CFM 1380 1320 1270 1220 1160 1115 1060 1000 T2 HE CFM 1380 1320 1270 1220 | WATTS 298 312 318 327 336 342 347 361 DP3GM420 ATING SPE WATTS 298 312 318 327 | RISE 33 35 36 38 40 41 44 46 08031** - ED RISE 45 47 48 50 | CFM 1415 1360 1305 1260 1200 1150 1110 1060 Rise Rang CFM 1415 1360 1305 1260 | WATTS 327 335 343 353 359 371 375 381 set 30° - 60° control Set 5 control S | RISE 33 34 35 37 38 40 42 44 44 ED RISE 43 45 45 47 49 | SP CFM 1542 1494 1437 1392 1342 1295 1238 1183 T4 CO SP CFM 1542 1494 1437 1392 | EED WATTS 392 403 409 419 430 440 447 454 OLING EED WATTS 392 403 409 419 | COO SPI CFM 1637 1593 1541 1497 1450 1407 1357 1304 T5 HIGH COO SPI CFM 1637 1593 1541 1497 | LING EED WATTS 444 459 473 478 485 493 502 STATIC LING EED WATTS 444 454 459 473 |
| 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 E.S.P. 0.1 0.2 0.3 0.4 0.5 | CFM 1055 1000 940 880 825 760 705 625 T1 H CFM 1055 1000 940 880 825 | WATTS 156 166 173 181 189 204 207 210 IEATING SI WATTS 156 166 173 181 189 | RISE 44 46 49 52 56 X X X RISE 58 X X X X X X X X X X X X X X X X X X X | CFM 1380 1320 1270 1220 1160 1115 1060 1000 T2 HE CFM 1380 1320 1270 1220 1160 | WATTS 298 312 318 327 336 342 347 361 DP3GM420 ATING SPE WATTS 298 312 318 327 336 | RISE 33 35 36 38 40 41 44 46 08031** - ED RISE 45 47 48 50 53 | CFM 1415 1360 1305 1260 1200 1150 1110 1060 Rise Rang CFM 1415 1360 1305 1260 1200 | WATTS 327 335 343 353 359 371 375 381 e: 30° - 60° EXTING SPE WATTS 327 335 343 353 359 | RISE 33 34 35 37 38 40 42 44 44 ED RISE 43 45 45 47 49 51 | SPI CFM 1542 1494 1437 1392 1342 1295 1238 1183 T4 CO SPI CFM 1542 1494 1437 1392 1342 | EED WATTS 392 403 409 419 430 440 447 454 OLING EED WATTS 392 403 409 419 430 | COO SPI CFM 1637 1593 1541 1497 1450 1407 1357 1304 T5 HIGH COO SPI CFM 1637 1593 1541 1497 1450 | LING EED WATTS 444 459 473 478 485 493 502 STATIC LING EED WATTS 444 454 459 473 478 |
| 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 E.S.P. 0.1 0.2 0.3 0.4 | CFM 1055 1000 940 880 825 760 705 625 T1 H CFM 1055 1000 940 880 | WATTS 156 166 173 181 189 204 207 210 IEATING SI WATTS 156 166 173 181 | RISE 44 46 49 52 56 X X X RISE 58 X X X X X X X X X X X X X X X X X X | CFM 1380 1320 1270 1220 1160 1115 1060 1000 T2 HE CFM 1380 1320 1270 1220 | WATTS 298 312 318 327 336 342 347 361 DP3GM420 ATING SPE WATTS 298 312 318 327 | RISE 33 35 36 38 40 41 44 46 08031** - ED RISE 45 47 48 50 | CFM 1415 1360 1305 1260 1200 1150 1110 1060 Rise Rang CFM 1415 1360 1305 1260 | WATTS 327 335 343 353 359 371 375 381 set 30° - 60° control Set 5 control S | RISE 33 34 35 37 38 40 42 44 44 ED RISE 43 45 45 47 49 | SP CFM 1542 1494 1437 1392 1342 1295 1238 1183 T4 CO SP CFM 1542 1494 1437 1392 | EED WATTS 392 403 409 419 430 440 447 454 OLING EED WATTS 392 403 409 419 | COO SPI CFM 1637 1593 1541 1497 1450 1407 1357 1304 T5 HIGH COO SPI CFM 1637 1593 1541 1497 | LING EED WATTS 444 459 473 478 485 493 502 STATIC LING EED WATTS 444 454 459 473 |

BLOWER PERFORMANCE DATA - SINGLE/THREE PHASE

| | | | | l | DP3GM48 | 06031** - | Rise Rang | ge: 30° - 6 | i0° | | | | |
|--------|-------|-----------|------|-------|----------|-----------|-----------|-------------|------|------|--------------|------------------------------------|-------|
| E.S.P. | T1 HI | EATING SI | PEED | T2 HI | EATING S | PEED | T3 HE | EATING S | PEED | - | oling Eed | T5 HIGH STATIC COOLING SPEED | |
| | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | CFM | WATTS |
| D.1 | 1055 | 156 | 44 | 1380 | 298 | 33 | 1415 | 327 | 33 | 1851 | 679 | 1780 | 647 |
| 0.2 | 1000 | 166 | 46 | 1320 | 312 | 35 | 1360 | 335 | 34 | 1803 | 688 | 1740 | 658 |
| 0.3 | 940 | 173 | 49 | 1270 | 318 | 36 | 1305 | 343 | 35 | 1754 | 696 | 1695 | 661 |
| 0.4 | 880 | 181 | 52 | 1220 | 327 | 38 | 1260 | 353 | 37 | 1706 | 702 | 1640 | 679 |
| 0.5 | 825 | 189 | 56 | 1160 | 336 | 40 | 1200 | 359 | 38 | 1665 | 710 | 1595 | 675 |
| D.6 | 760 | 204 | Х | 1115 | 342 | 41 | 1150 | 371 | 40 | 1619 | 719 | 1550 | 693 |
| 0.7 | 705 | 207 | Х | 1060 | 347 | 44 | 1110 | 375 | 42 | 1573 | 727 | 1505 | 690 |
| D.8 | 625 | 210 | Х | 1000 | 361 | 46 | 1060 | 381 | 44 | 1528 | 739 | 1465 | 696 |

| | | | | DI | P3GM4808 | 8031/33** | - Rise Ra | nge: 30° - | 60° | | | | |
|--------|-------|----------|------|-------|----------|-----------|-----------|------------|------|------|--------------|-----------------------------------|-------|
| E.S.P. | T1 HI | EATING S | PEED | T2 HI | EATING S | PEED | ТЗ НІ | EATING S | PEED | | oling Eed | T5 HIGH STATI COOLING SPEED | |
| | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | CFM | WATTS |
| D.1 | 1055 | 156 | 58 | 1380 | 298 | 45 | 1415 | 327 | 43 | 1851 | 679 | 1780 | 647 |
| 0.2 | 1000 | 166 | Х | 1320 | 312 | 47 | 1360 | 335 | 45 | 1803 | 688 | 1740 | 658 |
| D.3 | 940 | 173 | Х | 1270 | 318 | 48 | 1305 | 343 | 47 | 1754 | 696 | 1695 | 661 |
| 0.4 | 880 | 181 | Х | 1220 | 327 | 50 | 1260 | 353 | 49 | 1706 | 702 | 1640 | 679 |
| D.5 | 825 | 189 | Х | 1160 | 336 | 53 | 1200 | 359 | 51 | 1665 | 710 | 1595 | 675 |
| D.6 | 760 | 204 | Х | 1115 | 342 | 55 | 1150 | 371 | 53 | 1619 | 719 | 1550 | 693 |
| D.7 | 705 | 207 | Х | 1060 | 347 | 58 | 1110 | 375 | 55 | 1573 | 727 | 1505 | 690 |
| D.8 | 625 | 210 | Х | 1000 | 361 | Х | 1060 | 381 | 58 | 1528 | 739 | 1465 | 696 |

| | | | | | DP3GM48 | 10031** - | Rise Ran | ge: 35° - 6 | 5° | | | | |
|--------|-------|----------|------|------|----------|-----------|----------|-------------|------|------|--------------|------|-------------------------|
| E.S.P. | T1 HI | EATING S | PEED | T2 H | EATING S | PEED | T3 HI | EATING S | PEED | | oling Eed | coo | I STATIC LING EED |
| | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | CFM | WATTS |
| D.1 | 1055 | 156 | Х | 1380 | 298 | 56 | 1570 | 327 | 49 | 1851 | 679 | 1780 | 647 |
| 0.2 | 1000 | 166 | Х | 1320 | 312 | 58 | 1520 | 335 | 51 | 1803 | 688 | 1740 | 658 |
| 0.3 | 940 | 173 | Х | 1270 | 318 | 61 | 1480 | 343 | 52 | 1754 | 696 | 1695 | 661 |
| 0.4 | 880 | 181 | Х | 1220 | 327 | 63 | 1425 | 353 | 54 | 1706 | 702 | 1640 | 679 |
| 0.5 | 825 | 189 | Х | 1160 | 336 | Х | 1380 | 359 | 56 | 1665 | 710 | 1595 | 675 |
| D.6 | 760 | 204 | Х | 1115 | 342 | Х | 1335 | 371 | 58 | 1619 | 719 | 1550 | 693 |
| 0.7 | 705 | 207 | Х | 1060 | 347 | Х | 1285 | 375 | 60 | 1573 | 727 | 1505 | 690 |
| D.8 | 625 | 210 | Х | 1000 | 361 | Х | 1235 | 381 | 62 | 1528 | 739 | 1465 | 696 |

BLOWER PERFORMANCE DATA - SINGLE/THREE PHASE

| | | | | DP3G | M6008031 | /33** - Ris | e Range: | 30° - 60° | | | | |
|--------|--------|---------|--------|---------|--------------------|-------------|----------|---------------------|------|--------------------|------------------------------------|-------|
| E.S.P. | T1 LOW | STAGE H | EATING | T2 HIGH | I STAGE H SPEED | IEATING | | V STAGE IG SPEED | | H STAGE G SPEED | T5 HIGH STATIC COOLING SPEED | |
| | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | CFM | WATTS | CFM | WATTS |
| 0.1 | 1285 | 252 | 36 | 1370 | 297 | 45 | 1420 | 284 | 2044 | 757 | 2107 | 831 |
| 0.2 | 1235 | 259 | 37 | 1330 | 304 | 46 | 1371 | 294 | 1996 | 770 | 2060 | 837 |
| 0.3 | 1180 | 272 | 39 | 1280 | 314 | 48 | 1318 | 302 | 1955 | 779 | 2015 | 850 |
| 0.4 | 1130 | 272 | 41 | 1220 | 321 | 50 | 1268 | 313 | 1913 | 785 | 1972 | 858 |
| 0.5 | 1085 | 280 | 42 | 1180 | 341 | 52 | 1217 | 326 | 1871 | 796 | 1930 | 864 |
| 0.6 | 1035 | 294 | 45 | 1135 | 339 | 54 | 1163 | 341 | 1828 | 803 | 1888 | 875 |
| 0.7 | 975 | 297 | 47 | 1085 | 347 | 57 | 1101 | 347 | 1788 | 809 | 1850 | 885 |
| 0.8 | 910 | 319 | 51 | 1035 | 359 | 59 | 1041 | 358 | 1742 | 822 | 1805 | 889 |

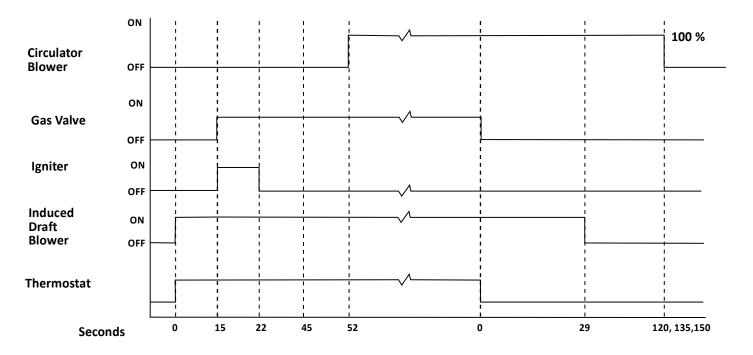
| | | | | DP3 | GM601003 | 81** - Rise | Range: 3 | 5° - 65° | | | | |
|--------|--------|---------|--------|---------|--------------------|-------------|----------|---------------------|------|---------------------|------------------------------------|-------|
| E.S.P. | T1 LOW | STAGE H | EATING | T2 HIGH | I STAGE H SPEED | IEATING | | V STAGE IG SPEED | _ | H STAGE IG SPEED | T5 HIGH STATIC COOLING SPEED | |
| | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | CFM | WATTS | CFM | WATTS |
| 0.1 | 1175 | 169 | 49 | 1659 | 513 | 45 | 1420 | 284 | 2044 | 757 | 2107 | 831 |
| 0.2 | 1115 | 178 | 52 | 1610 | 518 | 47 | 1371 | 294 | 1996 | 770 | 2060 | 837 |
| 0.3 | 1045 | 183 | 55 | 1580 | 535 | 47 | 1318 | 302 | 1955 | 779 | 2015 | 850 |
| 0.4 | 985 | 194 | 59 | 1543 | 543 | 49 | 1268 | 313 | 1913 | 785 | 1972 | 858 |
| 0.5 | 905 | 199 | 64 | 1503 | 554 | 50 | 1217 | 326 | 1871 | 796 | 1930 | 864 |
| 0.6 | 840 | 215 | Х | 1456 | 556 | 52 | 1163 | 341 | 1828 | 803 | 1888 | 875 |
| 0.7 | 770 | 218 | Х | 1418 | 566 | 53 | 1101 | 347 | 1788 | 809 | 1850 | 885 |
| 0.8 | 700 | 229 | Х | 1374 | 570 | 55 | 1041 | 358 | 1742 | 822 | 1805 | 889 |

| | • | | | DP3G | M6012031 | /33** - Ris | e Range: | 35° - 65° | | • | | |
|--------|--------|---------|--------|---------|--------------------|-------------|----------|---------------------|------|--------------------|------------------------------------|-------|
| E.S.P. | T1 LOW | STAGE H | EATING | T2 HIGH | I STAGE H SPEED | IEATING | | V STAGE IG SPEED | | H STAGE G SPEED | T5 HIGH STATIC COOLING SPEED | |
| | CFM | WATTS | RISE | CFM | WATTS | RISE | CFM | WATTS | CFM | WATTS | CFM | WATTS |
| 0.1 | 1260 | 252 | 54 | 1928 | 774 | 47 | 1420 | 284 | 2044 | 757 | 2107 | 831 |
| 0.2 | 1206 | 261 | 56 | 1881 | 782 | 48 | 1371 | 294 | 1996 | 770 | 2060 | 837 |
| 0.3 | 1154 | 266 | 58 | 1833 | 788 | 49 | 1318 | 302 | 1955 | 779 | 2015 | 850 |
| 0.4 | 1108 | 277 | 61 | 1791 | 797 | 50 | 1268 | 313 | 1913 | 785 | 1972 | 858 |
| 0.5 | 1057 | 286 | 64 | 1745 | 802 | 52 | 1217 | 326 | 1871 | 796 | 1930 | 864 |
| 0.6 | 1006 | 294 | Х | 1706 | 810 | 53 | 1163 | 341 | 1828 | 803 | 1888 | 875 |
| 0.7 | 960 | 303 | Х | 1665 | 816 | 54 | 1101 | 347 | 1788 | 809 | 1850 | 885 |
| 0.8 | 917 | 313 | Х | 1627 | 823 | 55 | 1041 | 358 | 1742 | 822 | 1805 | 889 |

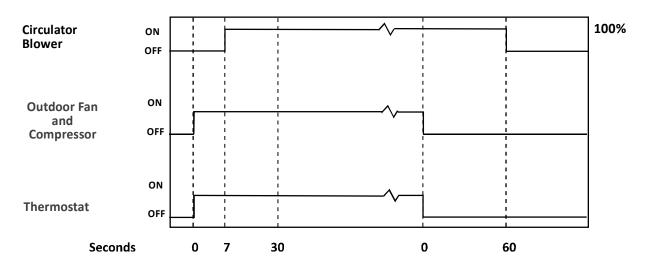
IGNITION CONTROL DIAGNOSTIC INDICATOR CHART (SINGLE STAGE MODELS ONLY)

| Light Signal | Refer to Abnormal Heating or Cooling Operation Sections of this Manual |
|--------------|--|
| Off | Internal Control Failure |
| 1 Flash | External Lockout |
| 2 Flashes | Pressure Switch Stuck Open |
| 3 Flashes | Pressure Switch Stuck Closed |
| 4 Flashes | Thermal Protection Device Open |
| 5 Flashes | Flame Detected with Gas Valve Closed |
| 6 Flashes | Short Cycle Compressor Delay (Cooling Only) |

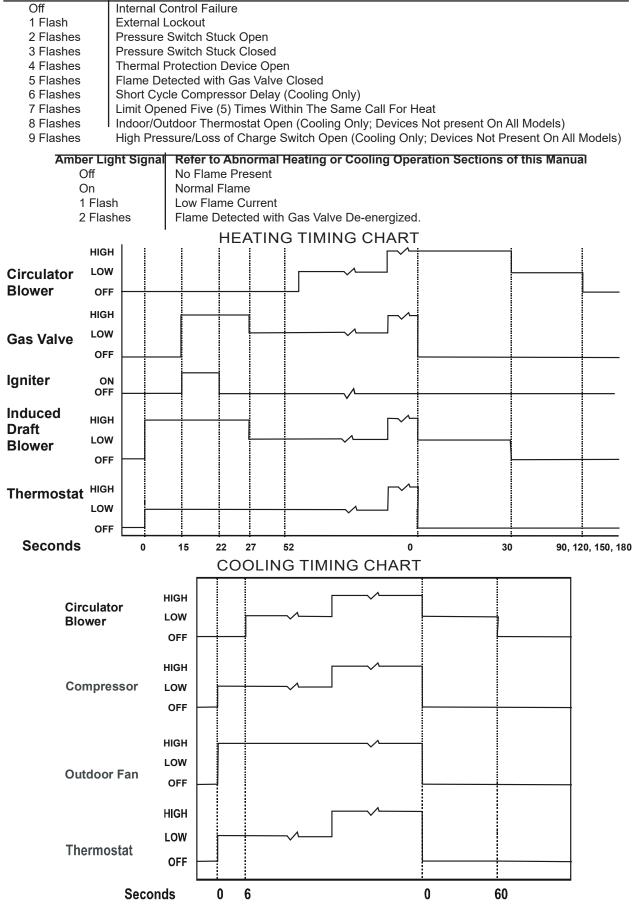
HEATING TIMING CHART



COOLING TIMING CHART

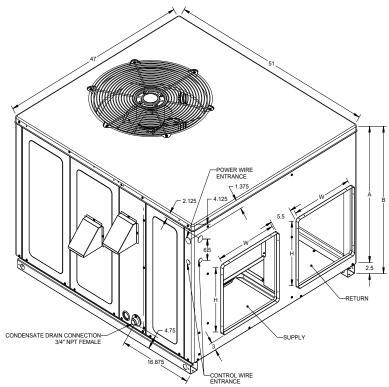


IGNITION CONTROL DIAGNOSTIC INDICATOR CHART (TWO-STAGE MODELS ONLY) Red Light Signal Refer to Abnormal Heating or Cooling Operation Sections of this Manual

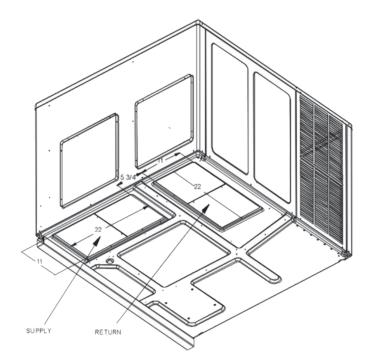


APPENDIX

UNIT DIMENSIONS

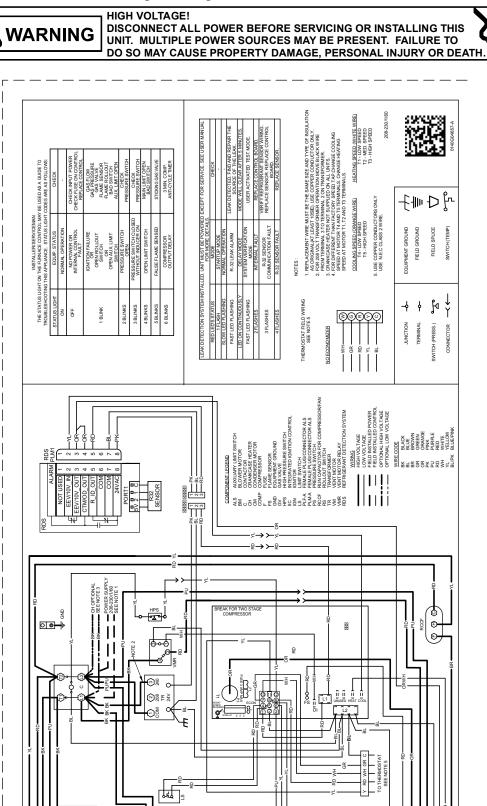


| | Uni | t Dimens | ions (Inc | hes) | |
|----------------|-----|----------|-----------|--------|-----------------|
| Model | | | Hei | ght | Chassis Size |
| | w | d | а | b | |
| DP3GM24***31** | 47 | 51 | 32 | 34 1/2 | Medium |
| DP3GM30***31** | 47 | 51 | 32 | 34 1/2 | Medium |
| DP3GM36***31** | 47 | 51 | 32 | 34 1/2 | Medium |
| DP3GM36***33** | 47 | 51 | 32 | 34 1/2 | Medium |
| DP3GM42***31** | 47 | 51 | 32 | 34 1/2 | Medium |
| DP3GM48***31** | 47 | 51 | 40 | 43 1/2 | Large |
| DP3GM48***33** | 47 | 51 | 40 | 43 1/2 | Large |
| DP3GM60***31** | 47 | 51 | 40 | 43 1/2 | Large |
| DP3GM60***33** | 47 | 51 | 40 | 43 1/2 | Large |



| | D | uct Op | ening | s |
|----------------|-----|--------|-------|-----|
| Model | Sup | ply | Retu | urn |
| | W | Н | W | Н |
| DP3GM24***31** | 16 | 16 | 16 | 16 |
| DP3GM30***31** | 16 | 16 | 16 | 16 |
| DP3GM36***31** | 16 | 16 | 16 | 16 |
| DP3GM36***33** | 16 | 16 | 16 | 16 |
| DP3GM42***31** | 16 | 16 | 16 | 16 |
| DP3GM48***31** | 16 | 18 | 16 | 18 |
| DP3GM48***33** | 16 | 18 | 16 | 18 |
| DP3GM60***31** | 16 | 18 | 16 | 18 |
| DP3GM60***33** | 16 | 18 | 16 | 18 |

DP3GM [24/30/36]31A* WIRING DIAGRAM



Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

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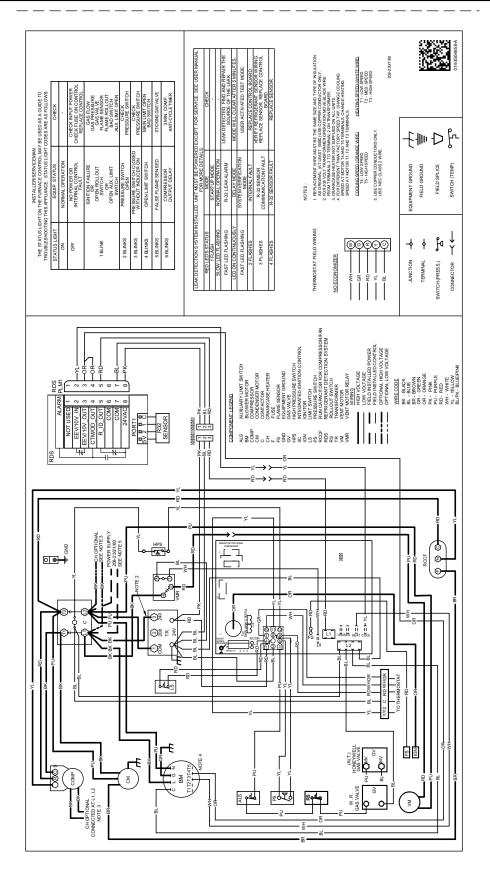
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DP3GM[42/48]***31A* WIRING DIAGRAM



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

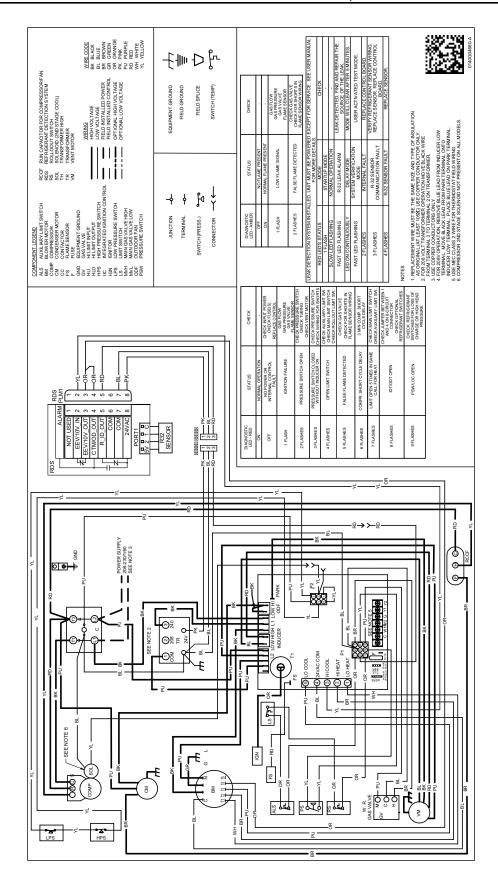


DP3GM60***31A* WIRING DIAGRAM



HIGH VOLTAGE! DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

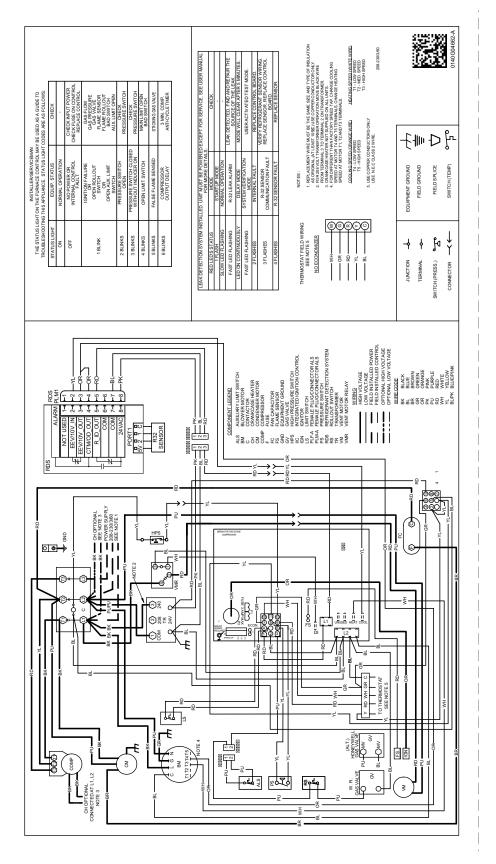




Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

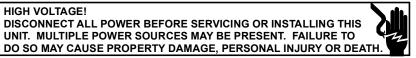
WARNING

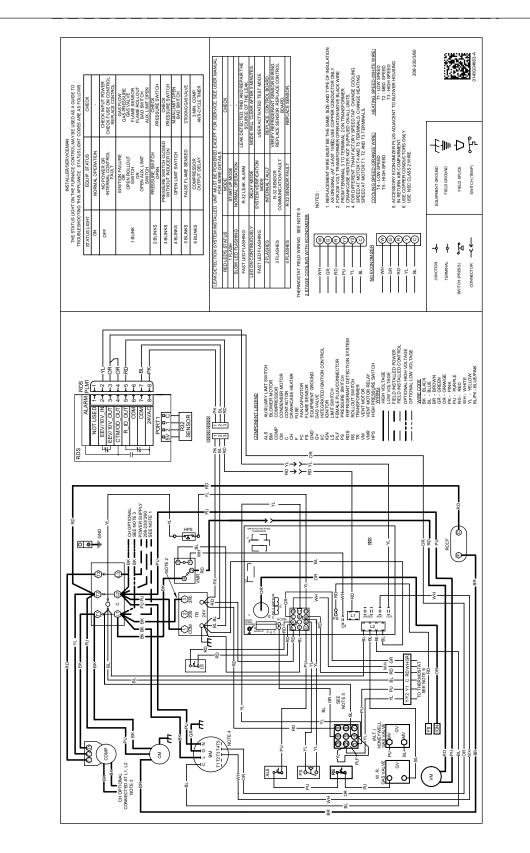




DP3GM48***33** WIRING DIAGRAM

WARNING

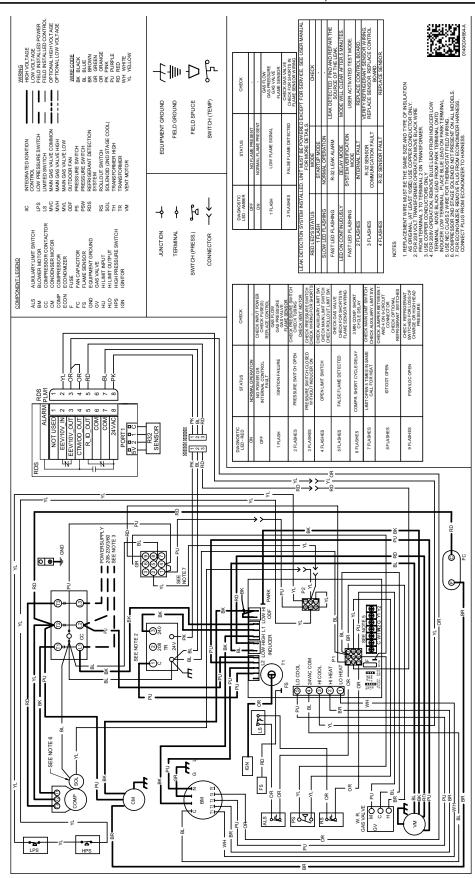




DP3GM60***33** WIRING DIAGRAM

WARNING

DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



PACKAGE UNITS - DUAL FUEL & GAS HOMEOWNER'S ROUTINE MAINTENANCE RECOMMENDATIONS

We strongly recommend a bi-annual maintenance checkup be performed by a **gualified service agency** before the heating and cooling seasons begin.



REPLACE OR CLEAN FILTER

IMPORTANT NOTE: Never operate unit without a filter installed as dust and lint will build up on internal parts resulting in loss of efficiency, equipment damage and possible fire.

A return air filter is not supplied with this unit; however, there must be a means of filtering the return air. An indoor air filter must be used with your comfort system. A properly maintained filter will keep the indoor coil of your comfort system clean. A dirty coil could cause poor operation and/or severe equipment damage.

The installer of your unit can tell you where your filter(s) are and how to clean or replace them.

Check your return filter(s) at least once every two months. When they are dirty, replace or clean as required. Disposable type filters should be replaced. Reusable type filters may be cleaned.

NOTE: Reusable type filters should be washed with warm water, dried completely and sprayed with an adhesive according to the manufacturers recommendations.

You may want to ask your dealer about high efficiency filters. High efficiency filters are available in both electronic and non-electronic types. These filters can do a better job of catching small airborne particles.

Improper filter maintenance is the most common cause of inadequate heating or cooling performance. Filters should be cleaned (permanent) or replaced (disposable) every two months or as required. When replacing a filter, it must be replaced with a filter of the same type and size and always make certain the air flow arrows on the filter point in the proper direction.

CONDENSER, EVAPORATOR AND INDUCED DRAFT MOTORS

The bearings on the air circulating blower motor, condenser motor and the combustion fan motor are permanently lubricated and require no further lubrication.

COMPRESSOR

The compressor motor is hermetically sealed and does not require additional oiling.

ANNUAL INSPECTION (QUALIFIED SERVICER ONLY)

Your package unit should be inspected by a qualified installer, or service agency at least twice every year. This check should be performed before the heating and cooling seasons begin. This will ensure that adequate combustion air is being drawn and the vent system is working properly. Particular attention should be paid to the following items. Repair as necessary.

- Check physical support of the unit. Ensure it is sound without any sagging, cracks, or gaps, around the base.
- Check for obvious signs of deterioration of the unit.
- Flue Hood and Combustion Air Inlet. Check for blockage (wasp nest, etc.) and corrosion.

FLUE HOOD (QUALIFIED SERVICER ONLY)

- <u>Return Air Connection</u>. Check for physical soundness and ensure that the connection is firmly sealed to the package unit casing.
- <u>Heat exchanger</u>. Check for corrosion and/or obstructions within the heat exchanger passageways.
- <u>Burners.</u> Check for proper ignition, burner flame, and flame sense.
- <u>Wiring.</u> Check wires for damage. Check electrical connections for tightness and/or corrosion.
- <u>Filters</u>. Check that filters are clean and in the proper placement in the unit or duct system.
- <u>Louvers.</u> Inspect air inlet louvers inside the heat exchanger compartments. Ensure the area is clean and free of dirt and debris.

CLEAN OUTSIDE COIL (QUALIFIED SERVICER ONLY)

The outdoor coil should be inspected annually. It is important to keep the outdoor coil clean. Dirt, leaves, or debris could restrict the airflow. If cleaning of the outdoor coil becomes necessary, hire a qualified servicer. Inexperienced people could easily puncture the tubing in the coil.

CLEAN INDOOR COIL (QUALIFIED SERVICER ONLY)

Before cleaning the indoor coil, A2L sensor must be removed from the unit to avoid damage and contamination. The indoor coil should be inspected and cleaned as frequently as necessary to keep the finned areas free of debris. Any <u>cleaning method</u>, <u>using approved</u> <u>cleaning agents</u>, should be performed from inside-out (opposite operating airflow direction) to prevent damage to the tube, fin coil, and any other components. <u>Prior to resuming unit operation, ensure</u> to reinstall the A2L sensor.

BEFORE CALLING YOUR SERVICER

- <u>Check the thermostat</u> to confirm that it is properly set.
- <u>Check the disconnect switch</u> near the unit to confirm that it is closed.
- <u>Check the electrical panel</u> for tripped circuit breakers or failed fuses. Reset the circuit breakers or replace fuses as necessary.
- <u>Check for blockage of the indoor air inlets and outlets</u>. Confirm that they are open and have not been blocked by objects (rugs, curtains or furniture).
- <u>Check for obstructions on the unit</u>. Confirm that it has not been covered on the sides or the top. Remove any obstruction that can be safely removed. If the unit is covered with dirt or debris, call a qualified servicer to clean it.
- <u>Check the filter</u>. If it is dirty, clean or replace it.

STARTUP CHECKLIST

| Residential Package - (Indoor Section) | | | |
|---|------------------|----------|-------|
| | Model Number | | |
| | Serial Number | | |
| ELECTRICAL | | | |
| Line Voltage (Measure L1 and L2 Voltage) | L1 - L2 | | |
| Secondary Voltage (Measure Transformer Output Voltage) | R - C | | |
| Blower Amps | _ | | |
| Heat Strip 1 - Amps | _ | | |
| Heat Strip 2 - Amps | _ | | |
| BLOWER EXTERNAL STATIC PRESSURE | | | |
| Return Air Static Pressure | _ | IN. W.C. | |
| Supply Air Static Pressure | _ | IN. W.C. | |
| Total External Static Pressure (Ignoring +/- from the reading above, add total here) | _ | IN. W.C. | |
| TEMPERATURES | | | |
| Return Air Temperature (Dry bulb / Wet bulb) | _ | DB °F | WB °F |
| Cooling Supply Air Temperature (Dry bulb / Wet bulb) | _ | DB °F | WB °F |
| Heating Supply Air Temperature | _ | DB °F | |
| Temperature Rise | _ | DB °F | |
| Delta T (Difference between Supply and Return Temperatures) | _ | DB °F | |
| GAS PRESSURES | | | |
| Gas Inlet Pressure | _ | IN. W.C. | |
| Gas Manifold Pressure (Low Fire) | | IN. W.C. | |
| Gas Manifold Pressure (High Fire) | _ | IN. W.C. | |
| Gas Type (NG) = Natural Gas / (LP) = Liquid Propane Residential Package - (Outdoor Section) | - | | |
| ELECTRICAL | | | |
| Supply Voltage (Measure L1 and L2 Voltage) | L1 - L2 | | |
| Compressor Amps | | | |
| Condenser Fan Amps | - | | |
| PRESSURES / TEMPERATURES | _ | | |
| Suction Circuit (Pressure / Suction Line Temperature) | PSIG | TEMP | °F |
| Liquid Circuit (Pressure / Liquid Temperature) | PSIG _ | TEMP | |
| Outdoor Air Temperature (Dry bulb / Wet bulb) | - | DB °F | WB °F |
| SUPERHEAT / SUBCOOLING | SH _ | SC | |
| SUPERHEAT / SUBCOOLING | 50 | 3C | _ |
| Additional Checks | | | |
| Check wire routings for any rubbing | | | |
| Check product for proper draining | _ | | |
| Check for kinked pressure switch tubing. | - | | |
| Check flue elbow for alignment and clamp tightness. | _ | | |
| Check screw tightness on blower wheel. | - | | |
| Check factory wiring and wire connections. | - | | |
| Check screw tightness on Outdoor Motor and Blade | - | | |
| Check product for proper clearances as noted by installation instructions | - | | |
| | | | |
| °F to °C formula: (°F - 32) divided by 1.8 = °C °C to °F formula: (°C multiplied by | y 1.8) + 32 = °F | | |

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CUSTOMER FEEDBACK

Daikin Comfort Technologies is very interested in all product comments. Please fill out the feedback form on the following link: <u>https://daikincomfort.com/contact-us</u> You can also scan the QR code on the right to be directed to the feedback page.



PRODUCT REGISTRATION

Thank you for your recent purchase. Though not required to get the protection of the standard warranty, registering your product is a relatively short process, and entitles you to additional warranty protection, except that failure by California, Florida, and Quebec residents to register their product does not diminish their warranty rights. The duration of warranty coverages in

Texas and Florida differs in some cases.

For Product Registration, please register by following this link: <u>https://daikincomfort.com/owner-support/product-registration</u> You can also scan the QR code on the right to be directed to the Product Registration page.

