

INSTALLATION INSTRUCTIONS

starting of the same 20 HEAT PUMP UNIT INSTALLATION & SERVICE REFERENCE DZ16TC & DZ18TC & DZ7TC

IMPORTANT SAFETY INSTRUCTIONS

The following symbols and labels are used throughout this manual to indicate immediate or potential safety hazards. It is the owner's and installer's responsibility to read and comply with all safety information and instructions accompanying these symbols. Failure to heed safety information increases the risk of personal injury, property damage, and/or product damage.



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.





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. THE MANUFACTURER WILL NOT BE **RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING** FROM IMPROPER 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 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 TRAINING MAY RESULT IN PRODUCT DAMAGE, PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

CONTENTS

IMPORTANT SAFETY INSTRUCTIONS
SHIPPING INSPECTION
CODES & REGULATIONS
FEATURES2
INSTALLATION CLEARANCES2
SAFE REFRIGERANT HANDLING
System Evacuation5
ELECTRICAL CONNECTIONS
System Start Up8
HEAT PUMP - HEATING CYCLE10
AIRFLOW CONSIDERATIONS11
WIRING DIAGRAMS12
TROUBLESHOOTING14
TROUBLESHOOTING INFORMATION: CONDENSING UNIT 16
TROUBLESHOOTING INFORMATION:
UNITARY DIAGNOSTIC CODES17
Ctk04 Addendum19



DO NOT BYPASS SAFFTY DEVICES



SCROLL EQUIPPED UNITS SHOULD NEVER BE USED TO EVACUATE THE AIR CONDITIONING SYSTEM. VACUUMS THIS LOW CAN CAUSE INTERNAL ELECTRICAL ARCING **RESULTING IN A DAMAGED OR FAILED COMPRESSOR.**

Our continuing commitment to quality products may mean a change in specifications without notice.



IOD-4009L 10/2022

SHIPPING INSPECTION

Always keep the unit upright; laying the unit on its side or top may cause equipment damage. Shipping damage, and subsequent investigation is the responsibility of the carrier. Verify the model number, specifications, electrical characteristics, and accessories are correct prior to installation. The distributor or manufacturer will not accept claims from dealers for transportation damage or installation of incorrectly shipped units.

CODES & REGULATIONS

This product is designed and manufactured to comply with national codes. Installation in accordance with such codes and/or prevailing local codes/regulations is the responsibility of the installer. The manufacturer assumes no responsibility for equipment installed in violation of any codes or regulations. 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 www.daikincomfort.com 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.

The United States Environmental Protection Agency (EPA) has issued various regulations regarding the introduction and disposal of refrigerants. Failure to follow these regulations may harm the environment and can lead to the imposition of substantial fines. Should you have any questions please contact the local office of the EPA.

If replacing a condensing unit or air handler, the system must be manufacturer approved and Air Conditioning, Heating and Refrigeration Institute (AHRI) matched.

NOTE: INSTALLATION OF UNMATCHED SYSTEMS IS STRONGLY DISCOURAGED.

Outdoor units are approved for operation above 55°F in cooling mode. Operation below 55°F requires the use of an approved low ambient kit.

Damage to the unit caused by operating the unit in a structure that is not complete (either as part of new construction or renovation) is not covered under the warranty.

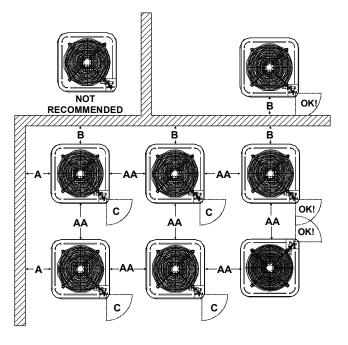
FEATURES

This air conditioner is a part of the Daikin Communicating family of products. It may be installed as part of a "legacy" system using a standard 24 VAC thermostat. However, with the Daikin Communicating thermostat kit, this air conditioner may be installed as part of a digitally communicating system. The Daikin Communicating system provides enhanced setup features, and enhanced diagnostics. It also reduces the number of thermostat wires to a maximum of four and a minimum of two.

INSTALLATION CLEARANCES

Special consideration must be given to location of the condensing unit(s) in regard to structures, obstructions, other units, and any/all other factors that may interfere with air circulation. Where possible, the top of the unit should be completely unobstructed; however, if vertical conditions require placement beneath an obstruction **there should be a minimum of 60 inches between the top of the unit and the obstruction(s).** The specified dimensions meet requirements for air circulation only. Consult all appropriate regulatory codes prior to determining final clearances.

Another important consideration in selecting a location for the unit(s) is the angle to obstructions. Either side adjacent the valves can be placed toward the structure provided the side away from the structure maintains minimum service clearance. Corner installations are strongly discouraged.



Minimum Airflow Clearance											
Model Type A B C AA											
Residential	10"	10"	18"	20"							
Light Commercial	12"	12"	18"	24"							

TABLE 1

This unit can be located at ground floor level or on flat roofs. At ground floor level, the unit must be on a solid, level foundation that will not shift or settle. To reduce the possibility of sound transmission, the foundation slab should not be in contact with or be an integral part of the building foundation. Ensure the foundation is sufficient to support the unit. A concrete slab raised above ground level provides a suitable base.

ROOFTOP INSTALLATIONS

If it is necessary to install this unit on a roof structure, ensure the roof structure can support the weight and that proper consideration is given to the weather-tight integrity of the roof. Since the unit can vibrate during operation, sound vibration transmission should be considered when installing the unit. Vibration absorbing pads or springs can be installed between the condensing unit legs or frame and the roof mounting assembly to reduce noise vibration.

NOTE: THESE UNITS REQUIRE SPECIAL LOCATION CONSIDERATION IN AREAS OF HEAVY SNOW ACCUMULATION AND/OR AREAS WITH PROLONGED CONTINUOUS SUBFREEZING TEMPERATURES. HEAT PUMP UNIT BASES HAVE CUTOUTS UNDER THE OUTDOOR COIL THAT PERMIT DRAINAGE OF FROST ACCUMULATION. SITUATE THE UNIT TO PERMIT FREE UNOBSTRUCTED DRAINAGE OF THE DEFROST WATER AND ICE. A MINIMUM 3" CLEARANCE UNDER THE OUTDOOR COIL IS REQUIRED IN THE MILDER CLIMATES.

In more severe weather locations, it is recommended that the unit be elevated to allow unobstructed drainage and air flow. The following elevation minimums are recommended:

Design Temperature	Suggested Minimum Elevation
+15° and above	2 1/2"
-5° to +14°	8"
below -5°	12"

SAFE REFRIGERANT HANDLING

While these items will not cover every conceivable situation, they should serve as a useful guide.



TO AVOID POSSIBLE INJURY, EXPLOSION OR DEATH, PRACTICE SAFE HANDLING OF REFRIGERANTS.



REFRIGERANTS ARE HEAVIER THAN AIR. THEY CAN "PUSH OUT" THE OXYGEN IN YOUR LUNGS OR IN ANY ENCLOSED SPACE. TO AVOID POSSIBLE DIFFICULTY IN BREATHING OR DEATH:

- •NEVER PURGE REFRIGERANT INTO AN ENCLOSED ROOM OR SPACE. BY LAW, ALL REFRIGERANTS MUST BE RECLAIMED.
- •IF AN INDOOR LEAK IS SUSPECTED, THOROUGHLY VENTILATE THE AREA BEFORE BEGINNING WORK.
- LIQUID REFRIGERANT CAN BE VERY COLD. TO AVOID POSSIBLE FROSTBITE OR BLINDNESS, AVOID CONTACT AND WEAR GLOVES AND GOGGLES. IF LIQUID REFRIGERANT DOES CONTACT YOUR SKIN OR EYES, SEEK MEDICAL HELP IMMEDIATELY.
- •ALWAYS FOLLOW EPA REGULATIONS. NEVER BURN REFRIGERANT, AS POSIONOUS GAS WILL BE PRODUCED.

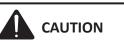
TO AVOID POSSIBLE EXPLOSION, USE ONLY RETURNABLE (NOT DISPOSABLE) SERVICE CYLINDERS WHEN REMOVING REFRIGERANT FROM A SYSTEM.

- •ENSURE THE CYLINDER IS FREE OF DAMAGE WHICH COULD LEAD TO A LEAK OR EXPLOSION.
- •ENSURE THE HYDROSTATIC TEST DATE DOES NOT EXCEED 5 YEARS.
- •ENSURE THE PRESSURE RATING MEETS OR EXCEEDS 400 PSIG. WHEN IN DOUBT, DO NOT USE CYLINDER.



TO AVOID POSSIBLE EXPLOSION:

- •NEVER APPLY FLAME OR STEAM TO A REFRIGERANT CYLINDER. IF YOU MUST HEAT A CYLINDER FOR FASTER CHARGING, PARTIALLY IMMERSE IT IN WARM WATER.
 - •NEVER FILL A CYLINDER MORE THAN 80% FULL OF LIQUID REFRIGERANT.
- Never add anything other than R-22 to an R-22 cylinder or R-410A to an R-410A cylinder. The service equipment used must be listed or certified for the type of refrigerant used.
 Store cylinders in a cool, dry place. Never use a cylinder as a platform or a roller.



THE COMPRESSOR POE OIL FOR R-410A UNITS IS EXTREMELY SUSCEPTIBLE TO MOISTURE ABSORPTION AND COULD CAUSE COMPRESSOR FAILURE. DO NOT LEAVE SYSTEM OPEN TO ATMOSPHERE ANY LONGER THAN NECESSARY FOR INSTALLATION.

Use only refrigerant grade (dehydrated and sealed) copper tubing to connect the condensing unit with the indoor evaporator. After cutting the tubing, install plugs to keep refrigerant tubing clean and dry prior to and during installation. Tubing should always be cut square keeping ends round and free from burrs. Clean the tubing to prevent contamination.

Do NOT let refrigerant lines come in direct contact with plumbing, ductwork, floor joists, wall studs, floors, and walls. When running refrigerant lines through a foundation or wall, openings should allow for sound and vibration absorbing material to be placed or installed between tubing and foundation. Any gap between foundation or wall and refrigerant lines should be filled with a pliable siliconbased caulk, RTV or a vibration damping material. Avoid suspending refrigerant tubing from joists and studs with rigid wire or straps that would come in contact with the tubing. Use an insulated or suspension type hanger. Keep both lines separate and always insulate the suction line.

These sizes are suitable for line lengths of 79 feet or less. If a run of more than eighty feet is required, refer to Remote Cooling Service Manual, or TP-106 Long Line Set Application R-22, or TP-107 Long Line Set Application R-410A or contact your distributor for assistance.

R	RECOMMENDED INTERCONNECTING TUBING (Ft)													
Cond	0-	24	25	-49	50	-79*								
Unit	Line Diameter (In. OD)													
Tons	Suct	Liq	Suct	Liq	Suct	Liq								
1 1/2	5/8	1/4	3/4	3/8	3/4	3/8								
2	5/8	1/4	3/4	3/8	3/4	3/8								
2 1/2	5/8	1/4	3/4	3/8	7/8	3/8								
3	3/4	3/8	7/8	3/8	1 1/8	3/8								
3 1/2	7/8	3/8	1 1/8	3/8	1 1/8	3/8								
4	7/8	3/8	1 1/8	3/8	1 1/8	3/8								
5	7/8	3/8	1 1/8	3/8	1 1/8	3/8								

* Lines greater than 79 feet in length refer to TP-107 Long Line Set Application Guideline or contact your distributor for assistance.

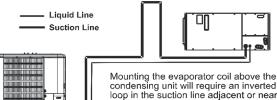
NOTE: The maximum vertical difference beween the outdoor unit and indoor unit is 25 feet for two stage units.

Insulation is necessary to prevent condensation from forming and dropping from the suction line. Armflex (or satisfactory equivalent) with 3/8" min. wall thickness is recommended. In severe conditions (hot, high humidity areas) 1/2" insulation may be required. Insulation must be installed in a manner which protects tubing from damage and contamination.

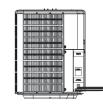
EXISTING LINE SETS

Where possible, drain as much residual compressor oil from existing systems, lines, and traps; pay close attention to low areas where oil may collect. Use of an approved flushing agent is recommended followed by a nitrogen purge to remove any remaining flushing agent from the lines or indoor coil. Replacement of indoor coil is recommended.

NOTE: IF USING EXISTING INDOOR COIL AND CHANGING REFRIGERANT TYPES, ENSURE THE INDOOR COIL AND METERING DEVICE ARE COMPATIBLE WITH THE TYPE OF REFRIGERANT BEING USED. IF NEW INDOOR COIL IS REQUIRED CHECK SPEC SHEET OR AHRI FOR APPROVED COIL. IF SYSTEM IS BEING REPLACED DUE TO COMPRESSOR ELECTRICAL FAILURE, ASSUME ACID IS IN SYSTEM. REFER TO SERVICE PROCEDURE COMPRESSOR BURNOUT IN SERVICE MANUAL FOR CLEAN-UP PROCEDURE.

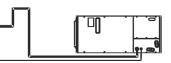


condensing unit will require an inverted loop in the suction line adjacent or near the connection to the evaporator. The top of the loop must be slightly higher than the top of the coil.



Mounting the condensing unit above the evaporator coil will require an oil trap in the suction line at the evaporator.

Refer to the latest revision of long line set guidelines TP-107.



BURYING REFRIGERANT LINES

If burying refrigerant lines can not be avoided, use the following checklist:

- 1. Insulate liquid and suction lines separately.
- 2. Enclose all underground portions of the refrigerant lines in waterproof material (conduit or pipe) sealing the ends where tubing enters/exits the enclosure.
- 3. If the lines must pass under or through a concrete slab, ensure lines are adequately protected and sealed.

REFRIGERANT LINE CONNECTIONS

LEAK TESTING (NITROGEN OR NIRTOGEN-TRACED)

IMPORTANT

To avoid overheating the service valve, TXV valve, or filter drier while brazing, wrap the component with a wet rag, or use a thermal heat trap compound. Be sure to follow the manufacturer's instruction when using the heat trap compound. Note: Remove Schrader valves from service valves before brazing tubes to the valves. Use a brazing alloy of 2% minimum silver content. Do not use flux.

Torch heat required to braze tubes of various sizes is proportional to the size of the tube. Tubes of smaller size require less heat to bring the tube to brazing temperature before adding brazing alloy. Applying too much heat to any tube can melt the tube. Service personnel must use the appropriate heat level for the size of the tube being brazed. NOTE: The use of a heat shield when brazing is recommended to avoid burning the serial plate or the finish on the unit.

- 1. The ends of the refrigerant lines must be cut square, deburred, cleaned, and be round and free from nicks or dents. Any other condition increases the chance of a refrigerant leak.
- "Sweep" the refrigerant line with nitrogen or inert gas during brazing to prevent the formation of copperoxide inside the refrigerant lines. The POE oils used in R-410A applications will clean any copper-oxide present from the inside of the refrigerant lines and spread it throughout the system. This may cause a blockage or failure of the metering device.
- 3. After brazing, quench the joints with water or a wet cloth to prevent overheating of the service valve.
- 4. Ensure the filter drier paint finish is intact after brazing. If the paint of the steel filter drier has been burned or chipped, repaint or treat with a rust preventative. This is especially important on suction line filter driers which are continually wet when the unit is operating.

NOTE: BE CAREFUL NOT TO KINK OR DENT REFRIGERANT LINES. KINKED OR DENTED LINES WILL CAUSE POOR PERFORMANCE OR COMPRESSOR DAMAGE.

Do NOT make final refrigerant line connection until plugs are removed from refrigerant tubing.

NOTE: BEFORE BRAZING, VERIFY INDOOR PISTON SIZE BY CHECKING THE PISTON KIT CHART PACKAGED WITH INDOOR UNIT.

WARNING

TO AVOID THE RISK OF FIRE OR EXPLOSION, NEVER USE OXYGEN, HIGH PRESSURE AIR OR FLAMMABLE GASES FOR LEAK TESTING OF A REFRIGERATION SYSTEM.



TO AVOID POSSIBLE EXPLOSION, THE LINE FROM THE NITROGEN CYLINDER MUST INCLUDE A PRESSURE REGULATOR AND A PRESSURE RELIEF VALVE. THE PRESSURE RELIEF VALVE MUST BE SET TO OPEN AT NO MORE THAN 450 PSIG.

Using dry nitrogen, pressurize the system to 450 PSIG. Allow the pressure to stabilize and hold for 15 minutes (minimum). If the pressure does not drop below 450 PSIG the system is considered leak free. Proceed to system evacuation using the Deep Vacuum Method. If after 15 minutes the pressure drops below 450 PSIG follow the procedure outlined below to identify system leaks. Repeat the Standing Pressure Test.

SYSTEM EVACUATION

Condensing unit liquid and suction valves are closed to contain the charge within the unit. The unit is shipped with the valve stems closed and caps installed. Do not open valves until the system is evacuated.



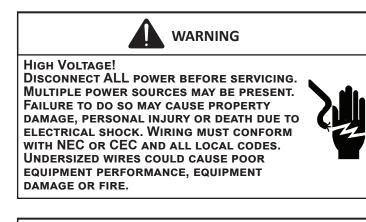
REFRIGERANT UNDER PRESSURE! FAILURE TO FOLLOW PROPER PROCEDURES MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

NOTE: SCROLL COMPRESSORS SHOULD NEVER BE USED TO EVACUATE OR PUMP DOWN A HEAT PUMP OR AIR CONDITIONING SYSTEM.



PROLONGED OPERATION AT SUCTION PRESSURES LESS THAN 20 PSIG FOR MORE THAN 5 SECONDS WILL RESULT IN OVERHEATING OF THE SCROLLS AND PERMANENT DAMAGE TO THE SCROLL TIPS, DRIVE BEARINGS AND INTERNAL SEAL.

ELECTRICAL CONNECTIONS



TO AVOID THE RISK OF FIRE OR EQUIPMENT DAMAGE, USE COPPER CONDUCTORS.

WARNING

The condensing unit rating plate lists pertinent electrical data necessary for proper electrical service and overcurrent protection. Wires should be sized to limit voltage drop to 2% (max.) from the main breaker or fuse panel to the condensing unit. Consult the NEC, CEC, and all local codes to determine the correct wire gauge and length.

Local codes often require a disconnect switch located near the unit; do not install the switch on the unit. Refer to the installation instructions supplied with the indoor furnace/ air handler for specific wiring connections and indoor unit configuration. Likewise, consult the instructions packaged with the thermostat for mounting and location information.

OVERCURRENT PROTECTION

The following overcurrent protection devices are approved for use.

- Time delay fuses
- HACR type circuit breakers

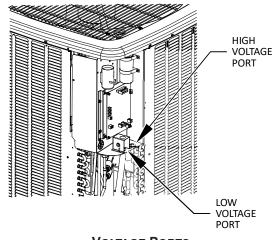
These devices have sufficient time delay to permit the motor-compressor to start and accelerate its load.

HIGH VOLTAGE CONNECTIONS

Route power supply and ground wires through the high voltage port and terminate in accordance with the wiring diagram provided inside the control panel cover.

LOW VOLTAGE CONNECTIONS

This heat pump is equipped with a factory-installed transformer to power the outdoor controls when installed as part of a fully communicating HVAC system utilizing a Daikin communicating indoor unit. In this configuration only two low voltage control wires are required between the outdoor unit and indoor unit. The unit also has legacy 24 VAC inputs to support noncommunicating systems. When this configuration is used, the transformer in the outdoor unit must be disconnected from the low voltage and line voltage connections. The transformer connecting wires can then be discarded. Route control wires through the low voltage port and terminate in accordance with the wiring diagram provided inside the control panel cover.

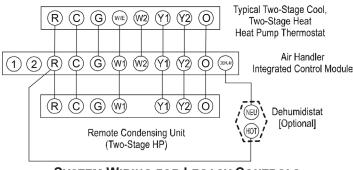


VOLTAGE PORTS

NOTE: IF THE HEAT PUMP UNIT IS WIRED IN THE COMMUNICATING MODE TOGETHER WITH THE COMPATIBLE COMMUNICATING INDOOR UNIT, THE COMMUNICATING EQUIPMENT IS ABLE TO SEARCH AND IDENTIFY THE CONDENSING UNIT WHEN POWER IS APPLIED TO THE SYSTEM. REFER TO THE INSTALLATION MANUAL OF THE COMMUNICATING INDOOR EQUIPMENT FOR MORE INFORMATION.

LEGACY CONTROLS WIRING

The intergrated control board on this unit is factory equipped with a 4-pin connector for low voltage contols wiring for communicating systems. If the system is installed as a non-communicating (legacy) system, remove the 4-pin connector and disconnect the transformer low voltage and line voltage wiring. Then, install the 7-pin connector that is supplied in the literature/accessories bag into the intergrated control board in the appropriate location indicated by the color-coded labels found on both the control board and pin connector plug.



SYSTEM WIRING FOR LEGACY CONTROLS

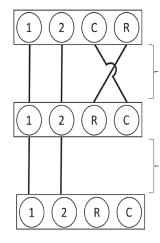
CONTROL WIRING

NOTE: REFER TO SECTION *ELECTRICAL CONNECTIONS* - *HIGH VOLTAGE CONNECTIONS* FOR 208/230 VOLT LINE CONNECTIONS TO THE AIR CONDITIONER.

NOTE: A REMOVABLE PLUG CONNECTOR IS PROVIDED WITH THE CONTROL TO MAKE THERMOSTAT WIRE CONNECTIONS. THIS PLUG MAY BE REMOVED, WIRE CONNECTIONS MADE TO THE PLUG, AND REPLACED. IT IS <u>STRONGLY</u> RECOMMENDED THAT YOU DO NOT CONNECT MORE THAN TWO WIRES INTO A SINGLE TERMINAL IN THE FIELD BECAUSE THERE IS A RISK OF THE WIRES BECOMING LOOSE. FAILURE TO DO SO MAY RESULT IN INTERMITTENT OPERATION.

To wire the system components, it is strongly recommended to use the same type and the same gauge for the wires prepared in the field (for best results use 18 AWG).

NOTE: WHEN INSTALLED AS A COMMUNICATING SYSTEM, ONLY DATA LINES 1 AND 2 ARE REQUIRED BETWEEN THE INDOOR AND OUTDOOR UNITS.



Communicating Thermostat (In case of Daikin *One*+ Smart Thermostat)

125 ft. (*)

Air Handler Blower Gas Furnace or Module Blower Integrated Control Module

250 ft. (*)

Outdoor Unit Integrated Control Module

(*) Allowable Maximum Length

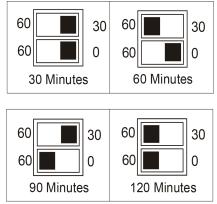
SYSTEM WIRING

DEFROST

Use the dipswitch to select defrost time interval (30, 60, 90,

120 minutes; see chart below).

Factory default setting is 30 minutes. The maximum defrost cycle time is 10 minutes.



DIPSWITCH SETTINGS FOR SELECTION OF DEFROST TIME

SYSTEM START UP

For a detailed procedure, please visit the Daikin One+ Smart Thermostat website at http://www.daikinone.com

If installing with a CTK04 thermostat, please see Daikin Communicating System Advanced Features section for further instructions.



POSSIBLE REFRIGERANT LEAK!

To avoid a possible refrigerant leak, open the service valves until the top of the stem is 1/8" from the retainer.

NOTE: POWER MUST BE SUPPLIED TO THE 18 SEER OUTDOOR UNITS CONTAINING ECM MOTORS BEFORE THE POWER IS APPLIED TO THE INDOOR UNIT. SENDING A LOW VOLTAGE SIGNAL WITHOUT HIGH VOLTAGE POWER PRESENT AT THE OUTDOOR UNIT CAN CAUSE MALFUNCTION OF THE CONTROL MODULE ON THE ECM MOTOR.

Adequate refrigerant charge for the matching HSVTC evaporator coil and 15 feet of lineset is supplied with the condensing unit. If using evaporator coils other than HSVTC coil it maybe necessary to add or remove refrigerant to attain proper charge. If line set exceeds 15 feet in length, refrigerant should be added at .6 ounces per foot of liquid line.

NOTE: CHARGE SHOULD ALWAYS BE CHECKED USING SUPERHEAT WHEN USING A PISTON AND SUBCOOLING WHEN USING TXV EQUIPPED INDOOR COIL TO VERIFY PROPER CHARGE.

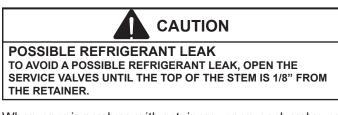
System Start Up

NOTE: Units with crankcase heaters should have high voltage power energized for 24 hours prior to start up.

Heat pumps are equipped with a time/temperature defrost control with field selectable defrost intervals of 30, 60, or 90 minutes. This setting should be adjusted at this time if needed. The defrost control also has SmartShift[™] technology, which delays compressor operation at defrost initiation and termination. If disabling this function is desired, move the jumper from "DLY" to "NORM" on the defrost control

Adequate refrigerant charge for the matching HSVTC evaporator coil and 15 feet of lineset is supplied with the condensing unit. If using evaporator coils other than HSVTC coil, it may be necessary to add or remove refrigerant to attain proper charge. If line set exceeds 15 feet in length, refrigerant should be added at .6 ounces per foot of liquid line.

NOTE: Charge should always be checked using superheat when using a piston and subcooling when using TXV equipped indoor coil to verify proper charge.



When opening valves with retainers, open each valve only until the top of the stem is 1/8" from the retainer. To avoid loss of refrigerant, DO NOT apply pressure to the retainer. When opening valves without a retainer remove service valve cap and insert a hex wrench into the valve stem and back out the stem by turning the hex wrench counterclockwise. Open the valve until it contacts the rolled lip of the valve body.

NOTE: These are not back-seating valves. It is not necessary to force the stem tightly against the rolled lip.

Break vacuum by fully opening liquid service valve. After the refrigerant charge has bled into the system, open the suction service valve. The service valve cap is the secondary seal for the valve and must be properly tightened to prevent leaks. Make sure cap is clean and apply refrigerant oil to threads and sealing surface on inside of cap. Tighten cap finger-tight and then tighten additional 1/6 of a turn (1 wrench flat), or to the following specification, to properly seat the sealing surfaces.

- 1. 3/8" valve to 5 10 in-lbs
- 2. 5/8" valve to 5 20 in-lbs
- 3. 3/4" valve to 5 20 in-lbs
- 4. 7/8" valve to 5 20 in-lbs

Do not introduce liquid refrigerant from the cylinder into the crankcase of the compressor as this may damage the compressor.

- 1. Break vacuum by fully opening liquid and suction base valves.
- Set thermostat to call for cooling. Check indoor and outdoor fan operation and allow system to stabilize for 10 minutes for fixed orifices and 20 minutes for expansion valves.

When opening valves with retainers, open each valve only until the top of the stem is 1/8" from the retainer. To avoid loss of refrigerant, DO NOT apply pressure to the retainer. When opening valves without a retainer remove service valve cap and insert a hex wrench into the valve stem and back out the stem by turning the hex wrench counterclockwise. Open the valve until it contacts the rolled lip of the valve body.

NOTE: THESE ARE NOT BACK-SEATING VALVES. IT IS NOT NECESSARY TO FORCE THE STEM TIGHTLY AGAINST THE ROLLED LIP.

Do not introduce liquid refrigerant from the cylinder into the crankcase of the compressor as this may damage the compressor.

- 1. Break vacuum by fully opening liquid and suction base valves.
- 2. Set thermostat to call for cooling. Check indoor and outdoor fan operation and allow system to stabilize for 10 minutes for fixed orifices and 20 minutes for expansion valves.

CHARGE VERIFICATION



REFRIGERANT UNDER PRESSURE!

DO NOT OVERCHARGE SYSTEM WITH REFRIGERANT.
DO NOT OPERATE UNIT IN A VACUUM OR AT NEGATIVE PRESSURE.

FAILURE TO FOLLOW PROPER PROCEDURES MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



Use refrigerant certified to AHRI standards. Used refrigerant may cause compressor damage, and is not covered under the warranty. Most portable machines cannot clean used refrigerant to meet AHRI standards.

NOTICE

VIOLATION OF EPA REGULATIONS MAY RESULT IN FINES OR OTHER PENALTIES.



DAMAGE TO THE UNIT CAUSED BY OPERATING THE COMPRESSOR WITH THE SUCTION VALVE CLOSED IS NOT COVERED UNDER THE WARRANTY AND MAY CAUSE SERIOUS COMPRESSOR DAMAGE.

FINAL CHARGE ADJUSTMENT

The outdoor temperature must be 60°F or higher. Set the room thermostat to COOL, fan switch to AUTO, and set the temperature control well below room temperature. AirFlow and Total Static Pressure for the indoor unit should be verified before attempting to charge system.

- 1. Total static pressure is .5" WC or less.
- 2. Airflow is correct for installed unit.
- 3. Airflow tables are in the installation manual and Sec Sheet for Indoor Unit.
- 4. Complete charging information are in Service Manual RS6200006.

NOTE: SUPERHEAT ADJUSTMENTS SHOULD NOT BE MADE UNTIL INDOOR AMBIENT CONDITIONS HAVE STABILIZED. THIS COULD TKAE UP TO <u>24 HOURS</u> DEPENDING ON INDOOR TEMPERATURE AND HUMIDITY. BEFORE CHECKING SUPERHEAT RUN THE UNIT IN COOLING FOR <u>10-15 MINUTES</u> OR UNIT REFRIGERANT PRESSURES STABILIZE. USE THE FOLLOWING GUIDELINES AND MTHODS TO CHECK UNIT OPERATION AND ENSURE THAT THE REFRIGERANT CHARGE IS WITHIN LIMITS.

EXPANSION VALVE SYSTEM



NOTE: Units matched with indoor coils equipped with non-adjustable TXV should be charged by subcooling only.

SUPERCOOLING FORMULA = SATURATED LIQUID LINE TEMP. - LIQUID LINE TEMP.

Run the outdoor unit in low stage cooling mode for 10 minutes until refrigerant pressures stabilize. Use the following guidelines and methods to check unit operation and ensure that the refrigerant charge is within limits.

NOTE: CHARGE THE UNIT ON LOW STAGE.

- 1. Purge the gauge lines and connect the service gauge manifold to the base valve service ports.
- Clamp a pipe clamp thermometer on the liquid line near the liquid line service valve.
 - a. Ensure the thermometer makes adequate contact to obtain the best possible readings.
 - b. The temperature read with the thermometer should be lower than the saturated condensing temperature.
- 3. The difference between the measured saturated condensing temperature and the liquid line temperature is the liquid Subcooling value.
- TXV-based systems should have a Subcooling value of 6°F +/- 1°F.
- 5. Add refrigerant to increase Subcooling and remove refrigerant to decrease Subcooling.

NOTE: Units matched with indoor coils equipped with a TXV should be charged by Subcooling only. Superheat can also be utilized to best verify charge levels with an adjustable TXV and make adjustments when needed in unique applications due to refrigerant line length, differences in height between the indoor and outdoor unit and refrigerant tubing sizes. These adjustments should only be performed by qualified service personnel.

Advanced Adjustment Recommendations

Superheat Formula = Suction Line Temp. - Saturated Suction Temp.

- 1. Clamp a pipe clamp thermometer near the suction line service valve at the outdoor unit.
 - a. Ensure the thermometer makes adequate contact for the best possible readings.
 - b. The temperature read with the thermometer should be higher than the saturated suction temperature.
- 2. The difference between the measured saturated suction temperature and the suction line temperature is the Superheat value.
- TXV-based systems should have a Superheat value of 8°F +/- 1°F.
- Adjust Superheat by turning the TXV valve stem clockwise to increase and counterclockwise to decrease.
 - a. If Subcooling and Superheat are low, adjust the TXV to 8°F +/- 1°F, and then check Subcooling.
 - b. If Subcooling is low and Superheat is high, add charge to raise Subcooling to 6°F +/- 1°F then check Superheat.
 - c. If Subcooling and Superheat are high, adjust the TXV valve to 8°F +/- 1°F Superheat, then check the Subcooling value.
 - d. If Subcooling is high and Superheat is low, adjust the TXV valve to 8°F +/- 1°F Superheat and remove charge to lower the Subcooling to 6°F +/-1°F.

NOTE: DO NOT ADJUST THE CHARGE BASED EXCLUSIVELY ON SUCTION PRESSURE UNLESS FOR GENERAL CHARGING IN THE CASE OF A GROSS UNDERCHARGE.

NOTE: CHECK THE SCHRADER PORTS FOR LEAKS AND TIGHTEN VALVE CORES IF NECESSARY. INSTALL CAPS FINGER-TIGHT.

SATURATED SUCTION PRESSURE TEMPERATURE CHART										
SUCTION PRESSURE	SATURATED SUCTION TEMPERATURE °F									
PSIG	R-410A									
50	1									
52	3									
54	4									
56	6									
58	7									
60	8									
62	10									
64	11									
66	13									
68	14									
70	15									
72	16									
74	17									
76	19									
78	20									
80	21									
85	24									
90	26									
95	29									
100	31									
110	36									
120	41									
130	45									
140	49									
150	53									
160	56									
170	60									

SATURATED LIQUID PRESSURE TEMPERATURE CHART									
LIQUID PRESSURE	SATURATED LIQUID TEMPERATURE °F								
PSIG	R-410A								
200	70								
210	73								
220	76								
225	78								
235	80								
245	83								
255	85								
265	88								
275	90								
285	92								
295	95								
305	97								
325	101								
355	108								
375	112								
405	118								
415	119								
425	121								
435	123								
445	125								
475	130								
500	134								
525	138								
550	142								
575	145								
600	142								
625	145								

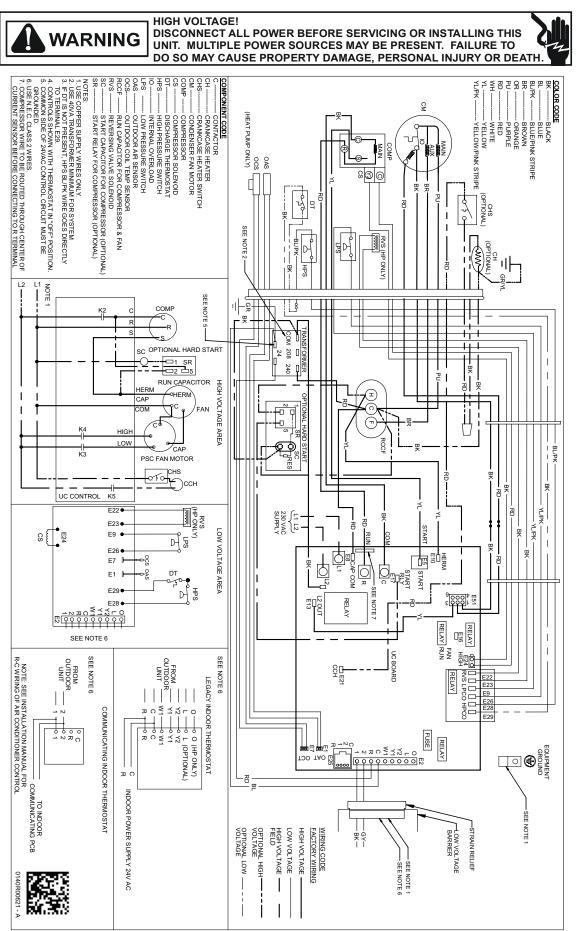
HEAT PUMP - HEATING CYCLE

The proper method of charging a heat pump in the heat mode is by weight with the additional charge adjustments for line size, line length, and other system components. To achieve maximum performance, adjust the OD TXV to $4^{\circ}F$ +/- $1^{\circ}F$ superheat and subcool below $40^{\circ}F$ at 4-6" from the compressor. Make final charge adjustments in the cooling cycle.

LOW SPEED LOCK-OUT

The outdoor system has a low speed lockout feature. In communicating mode, below 37°F outdoor ambient, the system locks out low stage and operates only in high stage to provide maximum heating capacity.

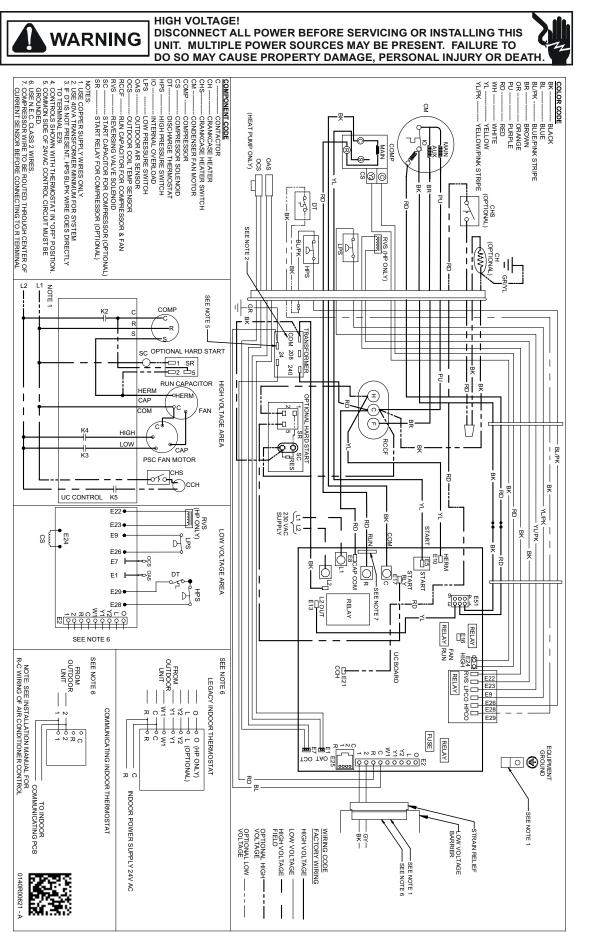
WIRING DIAGRAM



DZ16TC

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

WIRING DIAGRAM



DZ18TC & DZ7TC

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

TROUBLESHOOTING

NETWORK TROUBLESHOOTING

If a network communication error code has occurred, use the following steps to help troubleshoot the system. (For network communication error codes, refer to the table below and the tables of error codes for outdoor unit and indoor unit.)

After any wiring changes have been made or DS1 dip switches on the outdoor unit control board have been changed, apply power to the system and see if the error codes have cleared.

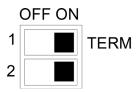
 Confirm low voltage wiring is correct per installation instructions. Check for mis-wiring. (i.e. Terminal 1 and 2 is reversed)

NOTE: A REMOVABLE PLUG CONNECTOR IS PROVIDED WITH THE CONTROL TO MAKE THERMOSTAT WIRE CONNECTIONS. THIS PLUG MAY BE REMOVED, WIRE CONNECTIONS MADE TO THE PLUG, AND REPLACED. IT IS <u>STRONGLY</u> RECOMMENDED THAT YOU DO NOT CONNECT MORE THAN TWO WIRES INTO A SINGLE TERMINAL IN THE FIELD BECAUSE THERE IS A RISK OF THE WIRES BECOMING LOOSE. FAILURE TO DO SO MAY RESULT IN INTERMITTENT OPERATION.

- Check wires for damage (i.e. Broken wire at terminal, broken inside wire nuts or damaged cable between units.)
- 3. Perform continuity check on wires to make sure cable is ok. Replace the cable if necessary.
- Change both dip switches of DS1 on the outdoor unit control board to the opposite position. See image below.

The integrated control module has some onboard tools that can be used to troubleshoot the network. These tools are: red communications LED, green receive (Rx) LED, and the learn button.

- Red communications LED Indicates the status of the network. The table below indicates the LED status and the corresponding potential problem.
- Green receive LED Indicates network traffic. The table below indicates the LED status and the corresponding potential problem.
- LEARN button Used to reset the network. Press the button for approximately 5 seconds to reset the network.



COMMUNICATIONS TROUBLESHOOTING CHART

LED	LED Status	Indication	Possible Causes	Corrective Action(s)	Notes & Cautions
	Off	 Normal condition 	None	None	None
Red Communications LED	1 Flash	Communications Failure	Communications Failure	Depress LEARN Button	 Depress once quickly for a power-up reset Depress and hold for 2 seconds for an out-of-box reset
	2 Flashes	Out-of-box reset	Control power upLearn button depressed	• None	None
	Off	No power Communications error	 No power to furnace Open fuse Communications error 	 Check fuses and circuit breakers; replace/reset Replace blown fuse Check for shorts in low voltage wiring in system 	Turn power OFF prior to repair
				 Reset network by depressing learn button 	
				 Check data 1/ data 2 voltages 	
	1 Steady Flash	No network found	 Broken/ disconnected data wire(s) AC/HP is installed as a legacy/ traditional system 	 Check communications wiring (data 1/ data 2 wires) Check wire connections at terminal block 	 Turn power OFF prior to repair Verify wires at terminal blocks are securely twisted together prior to inserting into terminal block
Green Receive LED				 Verify installation type (legacy/ traditional or communicating) Check data 1/ data 2 voltages 	
ſ	Rapid Flashing	Normal network traffic	 Control is "talking" on network as expected 	• None	None
	On Solid	Data 1/ Data 2 miss-wire	 Data 1 and data 2 wires reversed at indoor unit, thermostat, or CT compatible outdoor unit 	 Check communications wiring (data 1/ data 2 wires) 	 Turn power OFF prior to repair
			 Short between data 1 and data 2 wires 	 Check wire connections at terminal block 	 Verify wires at terminal blocks are securely twisted together prior to inserting into terminal block
			 Short between data 1 or data 2 wires and R (24 VAC) or C (24 VAC common) 	Check data 1/ data 2 voltages	

TROUBLESHOOTING INFORMATION: CONDENSING UNIT

Complaint		No Co			ling						satis ling		-		800		System Operating Pressures					
POSSIBLE CAUSE DOTS IN ANALYSIS GUIDE INDICATE "POSSIBLE CAUSE"	System will not start	Compressor will not start - fan runs	Comp. and Cond. Fan will not start	Evaporator fan will not start	Condenser fan will not start	Compressor runs - goes off on overload	Compressor cycles on overload	System runs continuously - little cooling/htg	Too cool and then too warm	Not cool enough on warm days	Certain areas too cool, others too warm	Compressor is noisy	System runs - blows cold air in heating	Unit will not terminate defrost	Unit will not defrost	Low suction pressure	Low head pressure	High suction pressure	High head pressure	Test Method Remedy		
Pow er Failure	•	ļ	ļ	ļ	ļ				ļ	ļ	ļ		ļ		ļ		ļ	ļ		Test Voltage		
Blow n Fuse	•	-	•	•	ļ	<u> </u>			ļ	ļ	 		 		<u> </u>		ļ			Inspect Fuse Size & Type		
Unbalanced Pow er, 3PH Loose Connection		┝	+	-	<u> </u>	•	•		ŀ	!	<u> </u>	h	<u> </u>		ŀ		<u> </u>			Test Voltage Inspect Connection - Tighten		
Shorted or Broken Wires	•	•	•	•	•	•				 						······				Test Circuits With Ohmmeter		
Open Fan Overload	-	-	<u> </u>	•	•	-			8				8				1	-	-	Test Continuity of Overload		
Faulty Thermostat	•	†	•	•	ŀ				•	[<u> </u>				<u> </u>			Test Continuity of Thermostat & Wiring		
Faulty Transformer	•	†	•		†				 		 				İ		t			Check Control Circuit with Voltmeter		
Shorted or Open Capacitor		•	t	•	•	•	٠		h		<u> </u>		t		İ		t			Test Capacitor		
Internal Compressor Overload Open		•	İ							-			•				İ –			Test Continuity of Overload		
Shorted or Grounded Compressor		•	1		1	٠			1		1	•••••	İ		1		1			Test Motor Windings		
Compressor Stuck		•				•	٠						٠							Use Test Cord		
Faulty Compressor Contactor			•		•	•														Test Continuity of Coil & Contacts		
Faulty Fan Relay				٠																Test Continuity of Coil And Contacts		
Open Control Circuit		ļ	ļ	•	ļ					ļ	ļ		ļ		ļ		ļ			Test Control Circuit with Voltmeter		
Low Voltage		•	ļ	ļ	ļ	•	٠		ļ	ļ	ļ		ļ		ļ		ļ			Test Voltage		
Faulty Evap. Fan Motor		<u> </u>	<u> </u>	•									<u> </u>			•	<u> </u>		٠	Repair or Replace		
Shorted or Grounded Fan Motor		ļ	ļ	ļ	•				ļ	ļ	ļ		ļ		ļ		ļ	ļ	•	Test Motor Windings		
Improper Cooling Anticipator		ļ	ļ	ļ	ļ	ļ	•		•	ļ	ļ	ļ	ļ	ļ	ļ		ļ	ļ		Check Resistance of Anticipator		
Shortage of Refrigerant		<u> </u>			ļ		•	•	ļ	[Į		•			•	•			Test For Leaks, Add Refrigerant		
Restricted Liquid Line Open Element or Limit on Elec. Heater		-	1				•	•								•	•	-	•	Remove Restriction, Replace Restricted Part Test Heater Element and Controls		
Dirty Air Filter		┢──						* •		•	•		•			•			٠	Inspect Filter-Clean or Replace		
Dirty Indoor Coil		┢──	┢──					•		•	•					•	┢───		•	Inspect Coil - Clean		
Not enough air across Indoor Coil		-	1					•		•	•		<u> </u>		8	•		-	•	Check Blow er Speed, Duct Static Press, Filter		
Too much air across Indoor Coil		┉	┢┉┉		<u> </u>					ļ			<u>†</u>		<u> </u>		•	•	fanninna	Reduce Blow er Speed		
Overcharge of Refrigerant		†	\uparrow			•	•	*****				•	•			******	† Ť	•	•	Recover Part of Charge		
Dirty Outdoor Coil		1	† · · · ·	İ	t	•	٠		İ	•	İ		İ		†	٠	†		•	Inspect Coil - Clean		
Noncondensibles							٠			•			٠						•	Recover Charge, Evacuate, Recharge		
Recirculation of Condensing Air		1	1				٠			•							1		•	Remove Obstruction to Air Flow		
Infiltration of Outdoor Air								٠		•	•									Check Windows, Doors, Vent Fans, Etc.		
Improperly Located Thermostat		[1			٠			•		1									Relocate Thermostat		
Air Flow Unbalanced		ļ	ļ	ļ	ļ	ļ			•	ļ	•	ļ	ļ	ļ	ļ		ļ	ļ	ļ	Readjust Air Volume Dampers		
System Undersized		ļ	ļ	ļ	ļ		ļ	•	ļ	•	ļ		ļ	.	ļ		ļ	ļ		Refigure Cooling Load		
Broken Internal Parts		ļ	 	ļ	ļ	ļ			ļ	ļ	ļ	•	•	ļ	ļ		ļ			Replace Compressor		
Broken Valves Inefficient Compressor		<u> </u>						•	 	ļ	ļ	•	<u> </u>			······	•	•		Test Compressor Efficiency		
Wrong Type Expansion Valve	-	1	1	-		•	•	•	8	•	1		•		1	•	•	•	•	Test Compressor Efficiency Replace Valve		
Expansion Device Restricted		┢──	<u> </u>			•	•	•		•						•	•		-	Remove Restriction or Replace Expansion Device		
Oversized Expansion Valve		-					-	•	8	-			8			Ĺ	Ĺ		•	Replace Valve		
Undersized Expansion Valve		t	1	t	†	•	•	•	t	•	<u>.</u>	h	t	h	İ	•	t			Replace Valve		
Expansion Valve Bulb Loose			1									٠						٠		Tighten Bulb Bracket		
Inoperative Expansion Valve	L					•		٠								٠				Check Valve Operation		
Loose Hold-dow n Bolts												٠								Tighten Bolts		
Faulty Reversing Valve						•							٠	٠	•		•	٠	٠	Replace Valve or Solenoid		
Faulty Defrost Control					•						[٠	٠	٠	٠	٠		٠	Test Control		
Faulty Defrost Thermostat			ļ							ļ	<u> </u>		٠	٠	٠	٠	٠	٠	٠	Test Defrost Thermostat		
								•	8				x		8		•	•		Check Flow rator & Seat or Replace Flow rator		

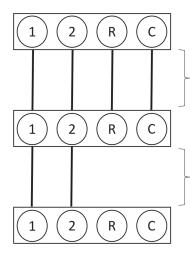
For detailed service information refer to the Remote Condensing Unit Service manual.

If you are attempting to install a Daikin One+ Communicating Thermostat, please visit the Daikin One+ Smart Thermostat website at http://www.daikinone.com

If installing with a CTK04 thermostat, please continue reading for further instructions.

CTK04 ADDENDUM

Two-Wire Outdoor, Four-Wire Indoor Wiring Low voltage wiring consists of two wires between the indoor unit and heat pump and four wires between the indoor unit and thermostat. The required wires are data lines 1 and 2, "R" (24 VAC hot) and "C" (24 VAC common). Never connect the power wiring to communication terminal. (1, 2, R, C)



Communicating Thermostat (In case of CTK04)



Air Handler Blower Gas Furnace or Module Blower Integrated Control Module



Outdoor Unit Integrated Control Module

(*) Allowable Maximum Length

System Wiring

ATTENTION INSTALLER - IMPORTANT NOTICE!

Please read carefully before installing this unit with the CTK04 thermostat.

- For DX16TC & DX18TC, do not install the 24 Volt Transformer that is included with the CTK04 Thermostat in the Condensing Unit; it is not needed.
- Do not attach any wires to the R & C Terminals on the Condensing Unit, as they are not needed for a communicating system setup.
- Data line terminals #1 and #2 are polarity sensitive. Only the data lines, 1 and 2, are required between the indoor and outdoor units.
- Data line terminal #1 from outdoor unit must connect to terminal #1 on indoor unit and data line terminal #2 from outdoor unit must connect to terminal #2 on indoor unit. Verify wires are not reversed.
- To wire the system components, it is strongly recommended to use the same type and the same gauge for the wires prepared in the field (for best results use 18 AWG).
- It is strongly recommended that you do not connect more than two wires into a single terminal in the field because there is a risk of the wires becoming loose.
- Calculate the Liquid Line Set length and weigh in 0.6 ounces per foot of R410A refrigerant for any length over 15 feet.

System	System Operating Mode	Airflow Demand Source		
	Cooling	Heat Pump		
	Heat Pump Heating Only	Heat Pump		
Heat Pump +	HP + Electric	> of Heat Pump or		
Air Handler	Heat Strips	Air Handler Demand		
	Electric Heat	Air Handler		
	Strips Only			
	Continuous Fan	Thermostat		
	Cooling	Heat Pump		
Heat Pump +	Heat Pump Heating Only	Heat Pump		
Furnace	Auxiliary Heating	Furnace		
	Continuous Fan	Thermostat		

For example, assume the system is a heat pump matched with an air handler. With a call for low stage cooling, the heat pump will calculate the system's low stage cooling airflow demand. The heat pump will then send a fan request along with the low stage cooling airflow demand to the air handler. Once received, the air handler will send the low stage cooling airflow demand to the ECM motor. The ECM motor then delivers the low stage cooling airflow. The table at right lists the nominal high and low stage airflow for the Daikin Communicating heat pumps.

DAIKIN COMMUNICATING SYSTEM ADVANCED FEATURES

The Daikin Communicating system permits access to additional system information, advanced setup features, and advanced diagnostic/troubleshooting features. See indoor equipment installation manual for directions on how to access the menus.

DIAGNOSTICS

Accessing the air conditioner/heat pump's diagnostics menu provides ready access to the last six faults detected by the air conditioner/heat pump. Faults are stored most recent to least recent. Any consecutively repeated fault is stored a maximum of three times. Example: The power supply to the air conditioner/heat pump is continuously below 187 VAC. The control will only store this fault the first three *consecutive* times the fault occurs.

NOTE: IT IS HIGHLY RECOMMENDED THAT THE FAULT HISTORY BE CLEARED AFTER PERFORMING MAINTENANCE OR SERVICING THE HEAT PUMP.

IDENTIFICATION

Model Number, Serial Number and Software Version are displayed within this menu. A model number check will help determine if the equipment shared data is correct for the unit. If the model number is not correct, even though very rare, a memory card is available to load the proper data.

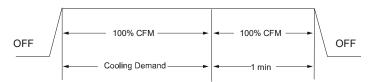
Sensors

The outdoor ambient temperature and coil temperature are displayed in the Sensor Menu. This information can be used for troubleshooting purposes.

COOL SET-UP

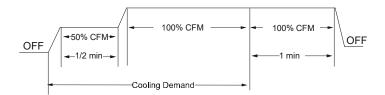
This menu allows for the adjustment of several cooling performance variables. Cool Airflow Trim (range from -10% to 10% in 2% increments), Cool Airflow Profiles, Cool Fan ON Delay, Cool Fan OFF Delay and Dehumidification Select (enable or disable dehumidification) can be adjusted in this menu. See the following images showing the four cooling airflow profiles. pump is continuously below 187 VAC. The control will only store this fault the first three consecutive times the fault occurs.

• **Profile A** (default) provides only an OFF delay of one (1) minute at 100% of the cooling demand airflow.

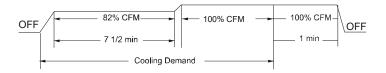


• **Profile B** ramps up to full cooling demand airflow by first stepping up to 50% of the full demand for 30 seconds. The motor then ramps to 100% of the required airflow. A one (1) minute OFF delay at 100% of the cooling airflow.

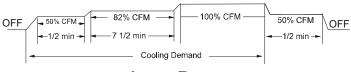
Models	Coo	oling	Hea	ting
woders	High	Low	High	Low
DZ16TC0241	800	600	800	600
DZ16TC0361	1200	800	1200	800
DZ16TC0481	1550	1100	1550	1100
DZ16TC0601	1800	1210	1800	1210
DZ18TC0241	850	550	850	550
DZ18TC0361	1250	1250	850	
DZ18TC0481	1550	1210	1550	1210
DZ18TC0601	1750	1210	1750	1210
DZ7TCA2410	800	600	800	600
DZ7TCA3610	1250	850	1250	850
DZ7TCA4810	1550	1210	1550	1210
DZ7TCA6010	1750	1210	1750	1210



• **Profile C** ramps up to 82% of the full cooling demand airflow and operates there for approximately 7 1/2 minutes. The motor then steps up to the full demand airflow. Profile C also has a one (1) minute 100% OFF delay.



• **Profile D** ramps up to 50% of the demand for 1/2 minute, then ramps to 82% of the full cooling demand airflow and operates there for approximately 7 1/2 minutes. The motor then steps up to the full demand airflow. Profile D has a 1/2 minute at 50% airflow OFF delay.



AIFLOW TABLES

STATUS

The current system operational mode and requested indoor CFM is reported in this menu. This information can be used for troubleshooting purposes.

HEAT SET-UP

This menu allows for the adjustment of several heating performance variables. Heat Airflow Trim (range from -10% to 10% in 2% increments), Heat Fan ON Delay, Heat Fan OFF Delay, Defrost Interval and Compressor Delay can be adjusted in this menu. Defrost Interval determines the amount of compressor run time between defrost cycles. Compressor delay selects a compressor off time after a reversing valve shift.

THERMOSTAT MENU

If this heat pump is installed with a CT compatible furnace, the system is recognized as a dual fuel system. The balance point temperature should be set via the thermostat. See thermostat instruction manual for details on how to set the balance point.

				UNIT	ARY DIAGN	OSTIC	CODES		
Symptoms of Abnormal Operation (Legacy & Daikin Communicating Thermostat)				Fault Description	Daikin Communio Thermosta Message	cating t Only	Possible Causes	Corrective Actions	Notes & Cautions
Integrated control module diagnostic/status LED display shows the indicated code. Daikin Communicating thermostat displays '' in the temperature display area.	BLANK	A	2	• Outdoor air temp sensor fault	AIR SENSOR FLT	A2	 Shorted sensor Open sensor Sensor disconnected Sensor out of range 	Check sensor connection Replace open/shorted sensor	Turn power OFF prior to repair Replace with correct replacement part
Heat pump fails to operate in heating mode Integrated control module diagnostic/status LED display shows the indicated code Daikin Communicating thermostat displays error message	BLANK	A	3	Outdoor coil temp sensor fault	COIL SENSOR FLT	A3	 Shorted sensor Open sensor Sensor disconnected Sensor out of range 	Check sensor connection Replace open/shorted sensor	 Turn power OFF prior to repair Replace with correct replacement part
 Air conditioner/heat pump fails to operate Integrated control module diagnostic/status LED display shows the indicated code 	BLANK	E	5	• Open fuse	BLOWN FUSE	E5	Short in low voltage wiring	Locate and correct short in low voltage wiring	 Turn power OFF prior to repair Replace fuse with 3-amp automotive type
 Air conditioner/heat pump fails to operate Integrated control module diagnostic/status LED display shows the indicated code 	BLANK	E	E	• Board mis- operation	INTERNAL FAULT	EE	Compressor relay contacts welded	Replace control	Turn power OFF prior to repair Replace with correct replacement part
 Air conditioner/heat pump fails to operate Integrated control module diagnostic/status LED display shows the indicated code Daikin Communicating thermostat displays error message 	BLANK	b	0	Circulator blower motor is not running when it should be running	MOTOR NOT RUN	b0	 Indoor blower motor problem Communications error between indoor and outdoor unit 	Check indoor blower motor Check indoor blower motor wiring Check indoor unit control Repair/replace any faulty wiring Repair/replace indoor blower motor or control	Turn power OFF prior to repair Applies only to fully communicating system using Daikin Communicating thermostat Replace with correct replacement part
 Air conditioner/heat pump operates at reduced performance Air conditioner/heat pump operating at low stage when expected to operate at high stage Integrated control module diagnostic/status LED display shows the indicated code 	BLANK	b	9	Airflow is lower than demanded	LOW ID AIRFLOW	b9	 Indoor blower motor problem Blocked filters Restrictive/undersized ductwork Indoor/outdoor unit mis- match 	Check indoor blower motor Check filters; clean/replace as needed Check ductwork; resize as needed Verify indoor and outdoor units are properly matched	 Turn power OFF prior to repair Applies only to fully communicating system using Daikin Communicating thermostat Replace with correct replacement part. See specification sheet(s) for airflow requirements and maximum external static pressure See specification sheets for approved system matches

				UNIT	ARY DIAGN	OSTIC	CODES		
Symptoms of Abnormal Operation (Legacy & Daikin		stic/Stat play Coo		Fault Description	Daiki Communio Thermosta	cating	Possible Causes	Corrective Actions	Notes & Cautions
Communicating Thermostat)	Digit 3 Digit 2 Digit		Digit 1		Message Code				
 Air conditioner/heat pump fails to operate Integrated control module diagnostic/status LED display shows the indicated code Daikin Communicating thermostat displays error message 	BLANK	đ	0	Data not yet on Network	NO NET DATA	d0	 Air conditioner/heat pump is wired as part of a communicating system and integrated control module does not contain any shared data 	 Verify system type (communicating or legacy) Populate shared data using memory card Wire system as legacy system 	 Turn power OFF prior to repair Use memory card for your specific model Insert memory card BEFORE turning power ON. Memory card may be removed after data is loaded. Turn power OFF before removing memory card Error code will be cleared once data is loaded. Applies only to fully communicating system using Daikin Communicating thermostat
 Air conditioner/heat pump fails to operate Integrated control module diagnostic/status LED display shows the indicated code Daikin Communicating thermostat displays error message 		d	1	• Invalid Data on Network	INVALID DATA	d1	 Air conditioner/heat pump is wired as part of a communicating system and integrated control module contains invalid shared data or network data is invalid for the integrated control module 	 Verify system type (communicating or legacy) Populate shared data using memory card Wire system as legacy system 	Turn power OFF prior to repair Use memory card for your specific model Insert memory card BEFORE turning power ON. Memory card may be removed after data is loaded. Turn power OFF before removing memory card Error code will be cleared once data is loaded. Applies only to fully communicating system using Daikin Communicating thermostat
 Air conditioner/heat pump fails to operate Air conditioner/heat pump operating at reduced performance Air conditioner/heat pump operating at low stage when expected to operate at high stage Integrated control module diagnostic/status LED display shows the indicated code Daikin Communicating thermostat displays error message 	BLANK	d	2	• System mis- match	INVALID SYSTEM	d2	 Air conditioner/ heat pump is wired as part of a communicating system and outdoor unit requires airflow greater than indoor unit's airflow capability Shared data is incompatible with the system or missing parameters 	Verify system type (communicating or legacy) Verify shared data is correct for your specific model; re- populate data if required Wire system as legacy system	Turn power OFF prior to repair Use memory card for your specific model Insert memory card BEFORE turning power ON. Memory card may be removed after data is loaded. Turn power OFF before removing memory card Error code will be cleared once data is loaded. Applies only to fully communicating system using Daikin Communicating thermostat

UNITARY DIAGNOSTIC CODES									
Symptoms of Abnormal Operation (Legacy & Daikin Communicating Thermostat)	Diagnostic/Status LED Display Codes Digit 3 Digit 2 Digit 1		Fault Description	Daik Commun Thermost Message	icating	Possible Causes	Corrective Actions	Notes & Cautions	
 Air conditioner/ heat pump fails to operate Integrated control module diagnostic/status LED display shows the indicated code Daikin Communicating thermostat displays error message 	BLANK	d	3	Configuration Mis-match	INVALID CONFIG	d3	Shared data sent to integrated control module does not match hardware configuration	Verify system type (communicating or legacy) Verify shared data is correct for your specific model; re- populate data if required Wire system as legacy system	Turn power OFF prior to repair Use memory card for your specific model Insert memory card BEFORE turning power ON. Memory card may be removed after data is loaded. Turn power OFF before removing memory card. Error code will be cleared once data is loaded. Applies only to fully communicating system using Daikin Communicating thermostat
 Air conditioner/ heat pump fails to operate Integrated control module diagnostic/status LED display shows the indicated code Daikin Communicating thermostat displays error message 		d	4	• Invalid Memory Card Data	INVALID MC DATA	d4	Shared data on memory card has been rejected	Verify system type (communicating or legacy) Verify shared data is correct for your specific model; re- populate data if required Wire system as legacy system	Turn power OFF prior to repair Use memory card for your specific model Insert memory card BEFORE turning power ON. Memory card may be removed after data is loaded. Turn power OFF before removing memory card. Error code will be cleared once data is loaded
 Very long run time Four consecutive compressor protector trips with average run time between trips greater than 3 hours Compressor operating at high speed and outdoor fan operating at low speed Integrated control module diagnostic/status LED display shows the indicated code 	BLANK	0	1	• Low Side Fault	LOW SIDE FAULT	01	Low refrigerant charge Restriction in liquid line Indoor blower motor failure Indoor thermostat set extremely low	Verify refrigerant charge; adjust as needed Check for restricted liquid line; repair/replace as needed Check indoor blower motor; repair/replace as needed Check indoor thermostat setting	Turn power OFF prior to repair Fault will clear after 30 consecutive normal cycles Fault may be cleared by cycling 24VAC to control Replace with correct replacement part(s)
Compressor and outdoor fan are off Thermostat demand is present Integrated control module diagnostic/status LED display shows the indicated code	BLANK	0	1	• Low Pressure Cut Out Trip	LPS OPEN	01	Low refrigerant charge Restriction in liquid line Indoor blower motor failure Indoor thermostat set extremely low	Verify refrigerant charge; adjust as needed Check for restricted liquid line; repair/replace as needed Check indoor blower motor; repair/replace as needed Check low pressure switch; repair/replace as needed Check indoor thermostat setting	Turn power OFF prior to repair Replace with correct replacement part(s)

UNITARY DIAGNOSTIC CODES									
Symptoms of Abnormal Operation (Legacy & Daikin Communicating Thermostat)	Diagnostic/Status LED Display Codes Digit 3 Digit 2 Digit 1			Fault Description	Daikin Communicating Thermostat Only		Possible Causes	Corrective Actions	Notes & Cautions
- · ·			Digit 1		Message				
 Compressor and outdoor fans are off Low pressure switch trip 3 times within same thermostat demand Thermostat demand is present Integrated control module diagnostic/status LED display shows the indicated code Daikin Communicating thermostat displays error message 	BLANK	L	1	Low Pressure Cut Out Lockout (3 Trips)	LPS LOCKOUT	01	 Low refrigerant charge Restriction in liquid line Indoor blower motor failure Indoor thermostat set extremely low 	 Verify refrigerant charge; adjust as needed Check for restricted liquid line; repair/replace as needed Check indoor blower motor; repair/replace as needed Check low pressure switch; repair/replace as needed Check indoor thermostat setting 	Turn power OFF prior to repair Must clear fault by cycling 24VAC to control Replace with correct replacement part(s)
Four consecutive compressor protector trips with average run time between trips greater than 1 minute and less than 15 minutes Low pressure and high pressure switches are closed Integrated control module diagnostic/status LED display shows the indicated code	BLANK	0	2	• High Side Fault	HIGH SIDE FAULT	02	Blocked condenser coil Outdoor fan not running	Check and clean	 Turn power OFF prior to repair Fault will clear after 4 consecutive normal cycles Fault may be cleared by cycling 24VAC to control Replace with correct replacement part(s)
Compressor and outdoor fan are off Thermostat demand is present Integrated control module diagnostic/status LED display shows the indicated code		0	2	• High Pressure Cut Out Trip	HPS OPEN	02	Blocked condenser coil Outdoor fan not running	Check and clean condenser coil Check outdoor fan motor; repair/replace as needed Check outdoor fan motor wiring; repair/replace as needed Check outdoor fan motor capacitor; replace as needed	Turn power OFF prior to repair Replace with correct replacement part(s)
Compressor and outdoor fan are off Low pressure switch trip 3 times within same thermostat demand Thermostat demand is present Integrated control module diagnostic/status LED display shows the indicated code Daikin Communicating thermostat displays error message	BLANK	L	2	High Pressure Cut Out Lockout (3 Trips)	HPS LOCKOUT	02	 Blocked condenser coil Outdoor fan not running 	Check and clean condenser coil Check outdoor fan motor; repair/replace as needed Check outdoor fan motor wiring; repair/replace as needed Check outdoor fan motor capacitor; replace as needed	Turn power OFF prior to repair Must clear fault by cycling 24VAC to control Replace with correct replacement part(s)

UNITARY DIAGNOSTIC CODES									
Symptoms of Abnormal Operation (Legacy & Daikin Communicating Thermostat)	Diagnostic/Status LED Display Codes Digit 3 Digit 2 Digit 1			Fault Communicating Description Thermostat Only Message Code			Corrective Actions	Notes & Cautions	
Run time for last 4 cycles is less than 3 minutes each Compressor protector has not tripped Low pressure and high pressure switches are closed Integrated control module diagnostic/status LED display shows the indicated code	BLANK	0	3	Short Cycling	SHRT CYCLE	03	Intermittent thermostat demand Faulty compressor relay	Check thermostat and thermostat wiring; repair/replace as needed Check compressor relay operation; replace control as needed	 Turn power OFF prior to repair Fault will clear after 4 consecutive normal cycles Fault may be cleared by cycling 24VAC to control Replace with correct replacement part(s) Minimum compressor run time is changed from 30 seconds to 3 minutes
 Compressor and outdoor fan are off Compressor protector trips four consecutive times Average run time between trips is less than 15 seconds Integrated control module diagnostic/status LED display shows the indicated code Daikin Communicating thermostat displays error message 	BLANK	0	4	Locked Rotor	LOCKED ROTOR	04	Compressor bearings are seized Failed compressor run capacitor Faulty run capacitor wiring Low line voltage	 Check compressor operation; repair/replace as needed Check run capacitor; replace as needed Check wiring; repair/replace as needed Verify line voltage is within range on rating plate; contact local utility is out of range 	 Turn power OFF prior to repair Must clear fault by cycling 24VAC to control Replace with correct replacement part(s)
Compressor and outdoor fan are off for greater than 4 hours Low pressure and high pressure switches are closed Integrated control module diagnostic/status LED display shows the indicated code Daikin Communicating thermostat displays error message	BLANK	0	5	Open circuit	OPEN CIRCUIT	05	Power is disconnected Failed compressor protector Compressor not properly wired to control	Check circuit breakers and fuses Check wiring to unit; repair/replace as needed Check compressor; repair/replace as needed Check compressor wiring; repair/replace as needed	Turn power OFF prior to repair Fault will clear after 1 normal cycle Fault may be cleared by cycling 24VAC to control Replace with correct replacement part(s)
Compressor and outdoor fan are off Low pressure and high pressure switches are closed Integrated control module diagnostic/status LED display shows the indicated code Daikin Communicating thermostat displays error message	BLANK	0	6	Open Start Circuit	OPEN START	06	Compressor start winding is open Failed compressor run capacitor Faulty run capacitor wiring Compressor not properly wired to control Faulty compressor wiring	Check compressor; repair/replace as needed Check run capacitor; replace as needed Check wiring; repair/replace as needed	Turn power OFF prior to repair Fault will clear after 1 normal cycle Fault may be cleared by cycling 24VAC to control Replace with correct replacement part(s)

UNITARY DIAGNOSTIC CODES									
Symptoms of Abnormal	Diagnostic/Status LED				Daikin				
Operation (Legacy & Daikin	Display Codes		Fault	Communio	•	Possible Causes	Corrective Actions	Notes & Cautions	
Communicating Thermostat)				Description	Thermosta				
		Digit 2			Message				
 Compressor and outdoor fan are off Low pressure and high pressure switches are closed Open start circuit has been 	BLANK	L	6	• Open Start Circuit Lockout	OPEN START LOCK	06	Compressor start winding is open Failed compressor run capacitor Faulty run capacitor	Check compressor; repair/replace as needed Check run capacitor; replace as needed	 Replace with correct
detected 4 times with 5 minute delay between each detection • Integrated control module diagnostic/status LED display shows the indicated code • Daikin Communicating thermostat displays error message							wiring • Compressor not properly wired to control • Faulty compressor wiring	 Check wiring; repair/replace as needed 	replacement part(s)
Compressor and outdoor fan are off Low pressure and high pressure switches are closed Integrated control module diagnostic/status LED display shows the indicated code Daikin Communicating thermostat displays error message	BLANK	0	7	• Open Run Circuit	OPEN RUN	07	Compressor run winding is open Compressor Compressor not properly wired to control Faulty compressor wiring	 Check compressor; repair/replace as needed Check wiring; repair/replace as needed 	Turn power OFF prior to repair Fault will clear after 1 normal cycle Fault may be cycling 24VAC to control Replace with correct replacement part(s)
 Compressor and outdoor fan are off Low pressure and high pressure switches are closed Open run circuit has been detected 4 times with 5 minute delay between each detection Integrated control module diagnostic/status LED display shows the indicated code Daikin Communicating thermostat displays error message 	BLANK	L	7	• Open Run Circuit Lockout	LOCK	07	Compressor run winding is open Compressor not properly wired to control Faulty compressor wiring	Check compressor; repair/replace as needed Check wiring; repair/replace as needed	Turn power OFF prior to repair Must clear fault by cycling 24VAC to control Replace with correct replacement part(s)
 Air conditioner/ heat pump may appear to be operating normally Compressor protector may be open (compressor and outdoor fan off). Integrated control module diagnostic/status LED display shows the indicated code 	BLANK	L	8	Low Line Voltage	LOW LINE VOLT	08	Low line voltage	Check circuit breakers and fuses Verify unit is connected to power supply as specified on rating plate Correct low line voltage condition; contact local utility if needed	Turn power OFF prior to repair Control detects line voltage less than 185VAC Fault will clear if line voltage increases above 185VAC

UNITARY DIAGNOSTIC CODES									
Symptoms of Abnormal Operation (Legacy & Daikin Communicating Thermostat)	Diagnostic/Status LED Display Codes			Fault Description	Daikin Communicating Thermostat Only		Possible Causes	Corrective Actions	Notes & Cautions
	Digit 3				Message	Code			
Air conditioner/heat pump may appear to be operating normally Compressor protector may be open (compressor and outdoor fan off). Integrated control module diagnostic/status LED display shows the indicated code	BLANK	т	8	• High Line Voltage	HIGH LINE VOLT	08	High line voltage	Correct high line voltage condition; contact local utility if needed Verify unit is connected to power supply as specified on rating plate	Turn power OFF prior to repair Control detects line voltage greater than 255VAC Fault will clear if line woltage decreases below 255VAC
 Air conditioner/heat pump may appear to be operating normally Integrated control module diagnostic/status LED display shows the indicated code 	BLANK	0	9	• Low Pilot Voltage	LOW SECOND VOLT	09	Control detects secondary voltage less than 18VAC Transformer overloaded Low line voltage	Check fuse Correct low secondary voltage condition Check transformer; replace if needed	Turn power OFF prior to repair Fault will clear if secondary voltage rises above 21VAC Replace with correct replacement part(s)
Compressor is off Integrated control module diagnostic/status LED display shows the indicated code	BLANK	Ρ	0	• Comp Protector Open	Not displayed	Not displayed	No current through run or start windings Compressor run winding is open Compressor not properly wired to control Faulty compressor wiring Failed compressor run capacitor Faulty run capacitor wiring	Check compressor; repair/replace as needed Check wiring; repair/replace as needed Check run capacitor; replace as needed	Turn power OFF prior to repair Fault will clear after 1 normal cycle Fault may be cleared by cycling 24VAC to control Replace with correct replacement part(s)
 Air conditioner/heat pump may appear to be operating normally Compressor protector may be open (compressor and outdoor fan off). Integrated control module diagnostic/status LED display shows the indicated code 	BLANK	0	8	• No Line Voltage	NO LINE VOLTAGE	08	• No Line Voltage	Check circuit breaker to fuses Verify unit is connected to power supply as specified on rating plate	Turn power OFF prior to repair Control detects line voltage less than 185VAC Fault will clear if line voltage increases above 185VAC

SPLIT SYSTEMS

AIR CONDITIONING AND HEAT PUMP HOMEOWNER'S ROUTINE MAINTENANCE RECOMMENDATIONS

We strongly recommend a bi-annual maintenance checkup be performed

before the heating and cooling seasons begin by a **<u>qualified servicer</u>**.

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.

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.

Your air filter or filters could be located in your furnace, in a blower unit, or in "filter grilles" in your ceiling or walls. The installer of your air conditioner or heat pump can tell you where your filter(s) are, and how to clean or replace them.

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

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.

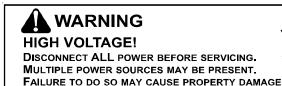
COMPRESSOR

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

Motors

Indoor and outdoor fan motors are permanently lubricated and do not require additional oiling.

CLEAN OUTSIDE COIL (QUALIFIED SERVICER ONLY)



PERSONAL INJURY OR DEATH.



Air must be able to flow through the outdoor unit of your comfort system. Do not construct a fence near the unit or build a deck or patio over the unit without first discussing your plans with your dealer or other qualified servicer. Restricted airflow could lead to poor operation and/or severe equipment damage.

Likewise, it is important to keep the outdoor coil clean. Dirt, leaves, or debris could also 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. Even a small hole in the tubing could eventually cause a large loss of refrigerant. Loss of refrigerant can cause poor operation and/or severe equipment damage.

Do not use a condensing unit cover to "protect" the outdoor unit during the winter, unless you first discuss it with your dealer. Any cover used must include "breathable" fabric to avoid moisture buildup.

BEFORE CALLING YOUR SERVICER

- <u>Check the thermostat</u> to confirm that it is properly set.
- <u>Wait 15 minutes</u>. Some devices in the outdoor unit or in programmable thermostats will prevent compressor operation for awhile, and then reset automatically. Also, some power companies will install devices which shut off air conditioners for several minutes on hot days. If you wait several minutes, the unit may begin operation on its own.

TO AVOID THE RISK OF EQUIPMENT DAMAGE OR FIRE, INSTALL THE SAME AMPERAGE BREAKER OR FUSE AS YOU ARE REPLACING. IF THE CIRCUIT BREAKER OR FUSE SHOULD OPEN AGAIN WITHIN THIRTY DAYS, CONTACT A QUALIFIED SERVICER TO CORRECT THE PROBLEM.

IF YOU REPEATEDLY RESET THE BREAKER OR REPLACE THE FUSE WITHOUT HAVING THE PROBLEM CORRECTED, YOU RUN THE RISK OF SEVERE EQUIPMENT DAMAGE.

- <u>Check the electrical panel</u> for tripped circuit breakers or failed fuses. Reset the circuit breakers or replace fuses as necessary.
- <u>Check the disconnect switch</u> near the indoor furnace or blower to confirm that it is closed.
- <u>Check for obstructions on the outdoor 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 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 the filter</u>. If it is dirty, clean or replace it.
- Listen for any unusual noise(s), other than normal operating noise, that might be coming from the outdoor unit. If you hear unusual noise(s) coming from the unit, call a qualified servicer.

Condenser / Heat Pump (including all Inverter)			
Mode	l Number		
Seria	l Number		
ELECTRICAL (Outdoor Unit)			
Line Voltage (Measure L1 and L2 Voltage)	L1-L2		
Secondary Voltage (Measure Transformer Output Voltage) NOT ALL MODELS	R-C		
Compressor Amps			
Condenser Fan Amps			
TEMPERATURES (Indoor Unit)			
Return Air Temperature (Dry bulb / Wet bulb)		08 *FW	B*F
Cooling Supply Air Temperature (Dry bulb / Wet bulb)		VB *F W	B*F
Delta T (Difference between Supply and Return Temperatures)		DB *F	
PRESSURES / TEMPERATURES (Outdoor Unit)			
Suction Circuit (Pressure / Suction Line Temperature)	PSIG	TEMP *F	
Liquid Circuit (Pressure / Liquid Temperature)	PSIG	TEMP *F	
Outdoor Air Temperature (Dry bulb / Wet bulb)		DB *F W	B*F
SUPERHEAT / SUBCOOLING	SH	SC	
Line set length in Feet			
Additional Refrigerant Charge Added over Factory Charge (Ounces)			
Additional Checks			
Check wire routings for any rubbing			
Check factory wiring and wire connections.			
Check product for proper clearances as noted by installtion instructions			
"F to "C formula: ("F - 32) divided by 1.8 = "C to "F formula: ("C multiplied by 1.8) + 32 =	= *F		

CUSTOMER FEEDBACK

Daikin 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 and Quebec residents to register their product does not diminish their warranty rights. The duration of warranty coverages in Texas 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.



Our continuing commitment to quality products may mean a change in specifications without notice.

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