INSTALLATION
OPERATION
MAINTENANCE

Model:
TCM030F1
TCM036F1
TCM042F1
TCM048F1

Manufactured Housing
Package Cooling
W/ Optional Electric Heat
2-1/2 - 4 Ton

IMPORTANT — This Document is customer property and is to remain with this unit. Please return to service information pack upon completion of work.

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Dwg. No. X730377 P02

WARNING: HAZARDOUS VOLTAGE - DISCONNECT POWER BEFORE SERVICING

All phases of this installation must comply with the NATIONAL, STATE & LOCAL CODES. In the absence of local codes, the installation must conform with National Electric Code — ANSI/NFPA 70 or “LATEST REVISION.”

Since the manufacturer has a policy of continuous product and product data improvement, it reserves the right to change design and specification without notice.

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**GENERAL INFORMATION**

**IMPORTANT:** Read this entire manual before beginning installation procedures.

SAFETY NOTICE. THIS INFORMATION IS INTENDED FOR USE BY INDIVIDUALS POSSESSING ADEQUATE BACKGROUNDS OF ELECTRICAL AND MECHANICAL EXPERIENCE. ANY ATTEMPT TO REPAIR A CENTRAL AIR CONDITIONING PRODUCT MAY RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE. THE MANUFACTURER OR SELLER CANNOT BE RESPONSIBLE FOR THE INTERPRETATION OF THIS INFORMATION, NOR CAN IT ASSUME LIABILITY IN CONNECTION WITH ITS USE.

**IMPORTANT:** RECONNECT ALL GROUNDING DEVICES. ALL PARTS OF THIS PRODUCT CAPABLE OF CONDUCTING ELECTRICAL CURRENT ARE GROUNDED. IF GROUNDING WIRES, SCREWS, STRAPS, CLIPS, NUTS OR WASHERS USED TO COMPLETE A PATH TO GROUND ARE REMOVED FOR SERVICE, THEY MUST BE RETURNED TO THEIR ORIGINAL POSITION AND PROPERLY FASTENED.

**IMPORTANT:** ALL POWER LEGS MAY NOT BE BROKEN BY CONTACTORS. SEE WIRING DIAGRAM ON UNIT CONTROL BOX COVER.

BEFORE STARTING THE COMPRESSOR, THE CRANKCASE HEATER SHOULD BE ENERGIZED FOR EIGHT HOURS.

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**LOCATIONS AND RECOMMENDATIONS**

These units are designed for outdoor installation. For proper installation, the following recommendations must be considered.

Select a location that will permit unobstructed airflow into the condenser coil and away from the fan discharge and permit unobstructed service access into the compressor compartment. Suggested airflow clearances and service clearances are given in Figure 2.

**NOTE:** Unit shipped for horizontal installation.

The discharge air from the condenser fans must be unrestricted for a minimum of 3 feet above the unit.

**NOTE:** If any internal accessories are to be added to the unit it should be done at the shop if at all practical.

1. Unit should be positioned so Roof-Run-Off water does not pour directly on unit.
2. Exhaust vents or other sources of contaminated air should not be near unit air inlet if outside air is to be introduced as a make-up air or the economizer ventilation feature is to be used.
3. Check the handling facilities to insure the safety of personnel and the unit(s).
4. CAUTION MUST BE TAKEN AT ALL TIMES TO AVOID PERSONAL INJURIES AND/OR DAMAGE TO EQUIPMENT.
5. The unit must be mounted level for proper drainage of defrost water through the holes in the base pan.
6. Flexible duct connectors must be of a flame retardant material. All duct work outside of the structure must be insulated and weatherproofed in accordance with local codes.
7. Holes through exterior walls must be sealed in accordance with local codes.
8. Access and service clearances for the unit must be given careful consideration when locating the duct entrance openings. Figures 1 and 2 provide unit dimensions.
9. All fabricated outdoor ducts should be as short as possible.
10. Be sure the hole in the structure for the ducts is large enough to accommodate the fabricated ducts and the insulation surrounding them.

**CLEARANCES**

1. The recommended clearances for single-unit installations are illustrated in Figures 1 and 2. These minimum requirements are not only an important consideration when determining unit placement, but they are also essential to ensure adequate serviceability, maximum capacity, and peak operating efficiency.
2. Any reduction of the unit clearances indicated in this illustration may result in condenser coil starvation, or the recirculation of warm condenser air.
INSTALLATION

Check unit nameplate for supply voltage required. Determine if adequate electrical power is available. Refer to specification sheet.

GROUND LEVEL -- HORIZONTAL UNITS
For ground level installations, the unit should be positioned on a pad the size of the unit or larger. The unit must be level on the pad. The pad must not come in contact with the structure. Be sure the outdoor portion of the supply and return air ducts are as short as possible.

Proceed with the installation as follows:

1. Place the unit on the pad and the five (5) rubber isolators provided.
2. Attach the supply and return air ducts to the unit.
3. Insulate any ductwork outside of the structure with at least 2 inches of insulation and weatherproof. There must be a weatherproof seal where the duct enters the structure.
4. Complete the installation according to the instructions in the following sections of this manual.

DUCTWORK

ATTACHING HORIZONTAL DUCTWORK TO UNIT
All conditioned air ductwork should be insulated to minimize heating and cooling duct losses. Use a minimum of two (2) inches of insulation with a vapor barrier. The outside ductwork must be weatherproofed between the unit and the building.

When attaching ductwork to a horizontal unit, provide a flexible watertight connection to prevent noise transmission from the unit to the ducts. The flexible connection must be indoors and made out of heavy canvas.

NOTE: Do not draw the canvas taut between the solid ducts.

FILTER INSTALLATION

AIR FILTERS
Filters are to be used with the TCM030-048F heating/cooling units. The basic unit does not have filters in it. However, a filter frame accessory is offered that will allow filters to be installed within the unit.

Otherwise a filter rack must be installed by the installer in the duct work.

Affix the filter label supplied with the unit adjacent to the filter area.

TABLE 1

<table>
<thead>
<tr>
<th>UNIT</th>
<th>NOMINAL CFM</th>
<th>FILTER* (Sq Ft) SIZE</th>
<th>FILTER RESISTANCE</th>
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<td>TCM048F</td>
<td>1600</td>
<td>5.33</td>
<td>0.05</td>
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</table>

* Filters must be installed in the return air system. The above square footages are based on 300 F.P.M. face velocity. If permanent filters are used, size per mfg. recommendation with clear resistance of 0.05" WC.

CONDENSATE DRAIN PIPING

A 3/4-inch female NPT condensate drain connection is provided on the evaporator access panel end of the unit. See Figure 4. Provide a trap and fill it with water before starting the unit to avoid air from being drawn through. Follow local codes and standard piping practices when running the drain line. Pitch the line downward away from the unit. Avoid long horizontal runs. See Figure 3.

NOTE: Do not use reducing fittings in the drain lines. The condensate drain must be:

- Made of 3/4" pipe size.
- Pitched 1/4" per foot to provide free drainage to convenient drain system.
- Trapped.
- Must not be connected to closed drain system.

Dwg. No. X730377 P02
HOLE FOR 1/2" CONDUIT (UNIT CONTROL WIRES) --

CONTROL BOX ACCESS PANEL

HEATER ACCESS PANEL

CONDENSER COIL

RECOMMENDED SERVICE CLEARANCE

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<th>LEFT SIDE</th>
<th>RIGHT SIDE</th>
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MODEL

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<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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<td>TCM030F</td>
<td>55-1/4</td>
<td>36</td>
<td>29-9/16</td>
<td>12-15/16</td>
<td>4-7/8</td>
<td>KNOCKOUTS FOR 3/4&quot; AND 1-1/4&quot; CONDUIT</td>
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<tr>
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<td>55-1/4</td>
<td>36</td>
<td>29-9/16</td>
<td>12-15/16</td>
<td>4-7/8</td>
<td></td>
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<tr>
<td>TCM048F</td>
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<td>29-3/16</td>
<td>14-1/2</td>
<td>4-7/8</td>
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ELECTRICAL WIRING

ELECTRICAL CONNECTIONS
Electrical wiring and grounding must be installed in accordance with local codes or, in the absence of local codes, with the National Electrical Code ANSI/NFPA 70, Latest Revision.

ELECTRICAL POWER
It is important that proper electrical power be available for the unit. Voltage variation should remain within the limits stamped on the unit nameplate.

DISCONNECT SWITCH
Provide an approved weatherproof disconnect either on the side of the unit or within close proximity and within sight of the unit.

OVER CURRENT PROTECTION
The branch circuit feeding the unit must be protected as shown on the unit rating plate.

POWER WIRING
The power supply lines must be run in weathertight conduit to the disconnect and into the bottom of the unit control box. Provide strain relief for all conduit with suitable connectors.

Provide flexible conduit supports whenever vibration transmission may cause a noise problem within the building structure.

Be sure all connections are made tight. See Figure 4.

NOTES:
For branch circuit wiring (main power supply to unit disconnect), wire size for the length of run should be determined using the circuit ampacity found on the unit nameplate and the N.E.C.
For more than 3 conductors in a raceway or cable, see the N.E.C. for derating the ampacity of each conductor.

GROUNDING: THE UNIT MUST BE ELECTRICALLY GROUNDED IN ACCORDANCE WITH LOCAL CODES OR THE NATIONAL ELECTRIC CODE.

NOTE: Ground the unit internally as provided. See wiring diagram for location.

CONTROL WIRING (CLASS II)
Low voltage control wiring should not be run in conduit with power wiring unless Class 1 wire of proper voltage rating is used. Route the thermostat cable or equivalent single leads of No. 18 AWG colored wire from the thermostat subbase terminals through the rubber gromment on the unit. See Figure 2 for the control entry location. Make connections as shown on the unit wiring diagram and in Figure 4.

Do not short thermostat wires since this will damage the control transformer.

Recommended wire sizes and lengths for installing the unit thermostat are provided in Table 2. The total resistance of these low voltage wires must not exceed one (1) ohm. Any resistance in excess of 1 ohm may cause the control to malfunction because of the excessive voltage drop.

TABLE 2
THERMOSTAT WIRE SIZE AND MAXIMUM LENGTH

<table>
<thead>
<tr>
<th>WIRE SIZE</th>
<th>MAXIMUM LENGTH (FT)</th>
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<tr>
<td>18</td>
<td>75</td>
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<tr>
<td>16</td>
<td>125</td>
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<tr>
<td>14</td>
<td>200</td>
</tr>
</tbody>
</table>

THERMOSTAT HEAT ANTICIPATOR
The thermostat heat anticipators should be set to equal the amperage draw of the W1 thermostat circuit.

IMPORTANT: Upon completion of wiring check all electrical connections, including factory wiring within the unit. Make sure all connections are tight. Replace and secure all electrical box covers and access doors before leaving the unit or turning on the power to the unit.

After all electrical wiring is complete, set the thermostat system switch in the OFF position so that the compressor will not run and then apply power by closing the system main disconnect switch. This will activate the compressor sump heat. Do not change the Thermostat System Switch until power has been applied long enough to evaporate any liquid R-22 in the compressor. It is recommended that the sump heater be energized for eight (8) hours prior to starting.
TCM-F FIELD WIRING DIAGRAM

NOTES:
1. FUSED DISCONNECT SIZE, POWER WIRING AND GROUNDING OF EQUIPMENT MUST COMPLY WITH CODES.
2. BE SURE POWER SUPPLY AGREES WITH EQUIPMENT AND HEATER NAMEPLATE.
3. LOW VOLTAGE WIRING TO BE 18 AWG MINIMUM CONDUCTOR.
4. SEE HEATER NAMEPLATE FOR CURRENT RATING OF HEATER USED.
5. UNIT AND HEATER DIAGRAM FOR ELECTRICAL CONNECTION DETAILS.
6. JUMPER MUST BE CONNECTED BETWEEN 1 AND 2 FOR OPERATE IN HEATING.
7. SOME THERMOSTATS PROVIDE THE 'G' SIGNAL IN THE COOLING MODE ONLY, TO PROVIDE THE 'G' SIGNAL IN THE HEATING MODE AN ACCESSORY RELAY IS REQUIRED. SEE FIG. 3 FOR PROPER CONNECTIONS.
8. FOR COOLING ONLY OMIT THE ELECTRIC HEATER, ASSOCIATED POWER WIRES, AND THE 'W' SIGNAL THERMOSTAT WIRE.
9. FIG. 4 DEMONSTRATES CONNECTION OF THE TWO STAGE ELECTRIC HEAT THERMOSTAT ACCESSORY ONLY. FOR FURTHER UNIT CONNECTION DETAILS REFER TO THE OTHER FIGURES.
10. THE 41A(BR) WIRE IS FIRST STAGE ELECTRIC HEAT. IF THE ELECTRIC HEATER ACCESSORY HAS TWO HEATING STAGES THE 41C(BR) WIRE IS SECOND STAGE ELECTRIC HEAT.
PRE-START QUICK CHECKLIST

- Is the unit properly located and level with the proper clearance?
- Is the duct work correctly sized, run, taped, insulated, and weatherproofed with proper unit arrangement? See Ductwork Installation section.
- Is the condensate line properly sized, run, trapped, and pitched?
- Is the filter of the correct size and number? Is it clean and in place?
- Is the wiring properly sized and run according to the unit wiring diagram?
- Are all the wiring connections, including those in the unit, tight?
- Has the unit been properly grounded and fused with the recommended fuse size? See Wiring Data.
- Is the thermostat level, correctly wired, well located, and set for the proper heat anticipation?
- Have the air conditioning systems been checked at the service ports for charge and leak tested if necessary?
- Do the condenser fan and indoor blower turn free without rubbing, and are they tight on the shafts?
- Has the indoor blower speed been determined and the proper speed been set? See the Unit Wiring Diagram.
- Has all work been done in accordance with applicable local and national codes?
- Are all covers and access panels in place to prevent air loss and safety hazards?

STARTING THE UNIT IN THE COOLING MODE

CAUTION: Before starting the system on the cooling cycle, turn the thermostat switch to OFF and close the unit disconnect switch. This procedure energizes the compressor crankcase heater, vaporizing any liquid refrigerant in the crankcase. This is a precaution against foaming at start-up which could damage the compressor bearings. Allow the heater to operate a minimum of eight (8) hours.

NOTE: See the section on “Sequence of Operation” for a description of the cooling operating sequence.

To start the unit in the cooling mode, set the thermostat system switch to COOL and move the thermostat COOL indicator to a setting below room temperature. The condenser (outdoor) fan motor compressor and evaporator (indoor) fan motor will operate automatically.

OPERATING PRESSURES

After the unit has operated in the cooling mode for a short period of time, install pressure gauges on the gauge ports of the discharge and suction line valves. Check the suction and discharge pressures and compare them to the normal operating pressures provided in the unit’s SERVICE FACTS.

NOTE: Do not use the pressures from the unit’s SERVICE FACTS to determine the unit refrigerant charge. The correct charge is shown on the unit nameplate. To charge the system accurately, weigh in the charge according to the unit nameplate.

VOLTAGE

With the compressor operating, check the line voltage at the unit. The voltage should be within the range shown on the unit nameplate. If low voltage is encountered, check the size and length of the supply line from the main disconnect to the unit. The line may be undersized for the length of the run.

COOLING SHUT-DOWN

Place the system selector switch at OFF position or reset thermostat at a setting above room temperature.

Do not de-energize the main power disconnect except when unit is to be serviced. Power is required to keep the heat pump compressor warm and boil off refrigerant in the compressor.

STARTING THE UNIT IN THE HEATING MODE

NOTE: See the section on “Sequence of Operation” for a description of the heating operating sequence.

Check to make sure all grilles and registers are open and all unit access doors are closed before start-up.

HEATING SHUT-DOWN

Place the system selector switch at OFF or place the heating selector lever at a setting below room temperature.

WARNING: DO NOT OPERATE THE UNIT WITHOUT THE EVAPORATOR FAN ACCESS PANEL IN PLACE. REINSTALL THE ACCESS PANEL AFTER PERFORMING ANY MAINTENANCE PROCEDURES ON THE FAN. OPERATING THE UNIT WITHOUT THE ACCESS PANEL PROPERLY INSTALLED MAY RESULT IN SEVERE PERSONAL INJURY OR DEATH.
**SEQUENCE OF OPERATION**

**GENERAL**
Operation of the system cooling (and optional heating) cycles is controlled by the position of the system switch on the room thermostat. Once the system switch is placed in either the HEAT OR COOL position, unit operation is automatic. The optional automatic changeover thermostat, when in the AUTO position, automatically changes to heat or cool with sufficient room temperature change.

With the unit disconnect closed, voltage is supplied to the unit control transformer and the crankcase heater (if provided). On single phase units, the crankcase heater is optionally field installed.

**COOLING—MECHANICAL COMPRESSOR CYCLE**
On a call for mechanical cooling, the indoor fan “G” and the compressor circuit “Y1” are energized. The indoor fan circuit “G” starts with power from the control transformer and then energizes the fan relay coil (F). This closes the fan relay (F) contacts and the indoor fan motor (IDM) starts.

The compressor circuit starts with power from the control transformer through the thermostat switch “Y1” to the compressor contactor (CC) coil. This closes the (CC) contacts and starts the compressor (CPR) and the outdoor fan motor (ODM). When the call for cooling is complete, the compressor contactor (CC), outdoor fan motor (ODM), and indoor fan relay (F) is de-energized.

**HEATING — ELECTRIC HEATHERS**
On a call for heat, power from the thermostat is received at “W1”, which energizes the “AH” contactor coil. The “AH” contactor closes powering the heater, provided all element limits are closed.

If two stages of heat are provided and additional heat is required, the thermostat’s second stage “W2” circuit is energized powering the “BH” contactor coil.

NOTE: The indoor thermostat must be configured to provide a “G” signal to energize the indoor fan relay (F) during the heating mode. The heater control circuit will not be energized unless the indoor fan relay (F) is energized.

**TROUBLESHOOTING CHART**

**SYSTEM FAULTS**

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<thead>
<tr>
<th>REFRIGERANT CIRCUIT</th>
<th>ELECTRICAL</th>
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<tbody>
<tr>
<td>Liquid Pressure Too High</td>
<td>Compressor &amp; O.D. fan Do Not Start</td>
</tr>
<tr>
<td>Liquid Pressure Too Low</td>
<td>Compressor Will Not Start But O.D. Fan Runs</td>
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<tr>
<td>Suction Pressure Too High</td>
<td>O.D. Fan Won’t Start</td>
</tr>
<tr>
<td>Suction Pressure Too Low</td>
<td>Compressor Hums But Will Not Start</td>
</tr>
<tr>
<td>Liquid Refrigerant floodback (TXV System)</td>
<td>Compressor Cycles on IOL</td>
</tr>
<tr>
<td>Liquid Refrigerant floodback (Cap. Tube System)</td>
<td>I.D. Blower Won’t Start</td>
</tr>
<tr>
<td>I.D. Coil Frosting</td>
<td>P-PRIMARY CAUSES S-SECONDARY CAUSES</td>
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<tr>
<td>Compressor Runs Inadequate or No Cooling</td>
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**REFERENCE CIRCUIT RESTRICTIONS**

<table>
<thead>
<tr>
<th>HIGH VOLTAGE POWER SUPPLY</th>
<th>START CAPACITOR</th>
<th>CONTACTOR RELAY WIRING</th>
<th>LOW VOLTAGE TRANSFORMER WIRING</th>
<th>LOW VOLTAGE RELAY WIRING</th>
<th>REFRIGERANT CONTACTOR</th>
<th>EXCESSIVE OVERCHARGE</th>
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<td>COMPRESSOR CONTACTOR</td>
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<td>COMPRESSOR FUSE</td>
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ROUTINE MAINTENANCE BY OWNER
You can do some of the periodic maintenance functions for your TCM-F unit yourself; this includes replacing the disposable or cleaning the permanent air filters, cleaning the unit cabinet, clearing the condenser coil, and conducting a general unit inspection on a regular basis.

Be sure to inspect them at least once each month when the system is in constant operation. (In new homes, check the filters every week for the first four (4) weeks.)

If you have disposable-type filters, replace them with new filters of the same type and size. Do not attempt to clean disposable filters.

Permanent-type filters can be cleaned by washing them with a mild detergent and water. Make sure that the filters are thoroughly dry before reinstalling them in the unit (or duct system).

NOTE: It may be necessary to replace permanent filters annually if washing fails to clean the filter or if the filter shows signs of deterioration. Be sure to use the same type and size as was originally installed.

CONDENSER COIL
Unfiltered air circulates through the unit’s condenser coil and can cause the coil’s surface to become clogged with dust, dirt, etc. To clean the coil, vertically (i.e., with the fins) stroke the coil surface with a soft-bristled brush.

Be sure to keep all vegetation away from the condenser coil area.

MAINTENANCE PERFORMED BY SERVICEMAN -- COOLING SEASON
To keep your unit operating safely and efficiently, the manufacturer recommends that a qualified serviceman check the entire system at least once each year and any other time that you feel one is needed. Your serviceman should examine these areas of your TCY-F unit:

- filters (for cleaning or replacement)
- motors and drive system components
- gaskets (for possible replacement)
- safety controls (for mechanical cleaning)
- electrical components and wiring (for possible replacement and connection tightness)
- condensate drain (for cleaning)
- unit duct connections (to see that they are physically sound and sealed to the unit casing)
- unit mounting support (for structural integrity)
- the unit (for obvious unit deterioration)

MAINTENANCE PERFORMED BY SERVICEMAN -- HEATING SEASON
Complete the unit inspections and service routines described below at the beginning of each heating season.

- Visually inspect the unit to ensure that the airflow required for condenser coil is not obstructed from the unit.
- Inspect the control panel wiring to verify that all electrical connections are tight and that the wire insulation is intact.

The following warning complies with State of California law, Proposition 65.

⚠️ WARNING: This product contains fiberglass wool insulation! Fiberglass dust and ceramic fibers are believed by the State of California to cause cancer through inhalation. Glasswool fibers may also cause respiratory, skin, or eye irritation.

The following warning complies with State of California law, Proposition 65.

⚠️ WARNING: This product contains fiberglass wool insulation! Fiberglass dust and ceramic fibers are believed by the State of California to cause cancer through inhalation. Glasswool fibers may also cause respiratory, skin, or eye irritation.

PRECAUTIONARY MEASURES
- Avoid breathing fiberglass dust.
- Use a NIOSH approved dust/mist respirator.
- Avoid contact with the skin or eyes. Wear long-sleeved, loose-fitting clothing, gloves, and eye protection.
- Wash clothes separately from other clothing: rinse washer thoroughly.
- Operations such as sawing, blowing, tear-out, and spraying may generate fiber concentrations requiring additional respiratory protection. Use the appropriate NIOSH approved respirator in these situations.

FIRST AID MEASURES
Eye Contact - Flush eyes with water to remove dust. If symptoms persist, seek medical attention.

Skin Contact - Wash affected areas gently with soap and warm water after handling.

A150988P01
LIMITED WARRANTY

CENTRAL AIR CONDITIONER
TCC, TCD, TCH, TCK, TCM,
TCP, THC and TSC

Models Less Than 20 Tons for Residential Use* (Parts Only)

This limited warranty is extended by American Standard Inc., to the original purchaser and to any succeeding owner of the real property to which the Air Conditioner is originally affixed, and applies to products purchased and retained for use within the U.S.A. and Canada.

If any part of your Air Conditioner fails because of a manufacturing defect within five years from the date of the original purchase, Warrantor will furnish without charge the required replacement part. Any local transportation, related service labor, diagnosis calls, refrigerant and related items are not included.

If the sealed motor-compressor fails because of a manufacturing defect within five years from the date of original purchase, Warrantor will furnish without charge the required replacement compressor. Any local transportation, related service labor, diagnosis calls, refrigerant and related items are not included.

This limited warranty does not cover failure of your Central Air Conditioner if it is damaged while in your possession, failure attributable or caused by unreasonable use of the Central Air Conditioner and/or failure to properly maintain the Central Air Conditioner as set forth in the Use and Care manual.

This limited warranty applies to product installed on or after 10/1/2001 where product is manufactured after 1/1/2000. This limited warranty is not retroactive to any installations prior to 10/1/2001 or on product produced prior to 2000.

THE LIMITED WARRANTY AND LIABILITY SET FORTH HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES AND LIABILITIES, WHETHER IN CONTRACT OR IN NEGLIGENCE, EXPRESS OR IMPLIED, IN LAW OR IN FACT, INCLUDING BUT NOT SPECIFICALLY LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE, AND IN NO EVENT SHALL WARRANTOR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow limitations on how long an implied limited warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Parts will be provided by our factory organization through an authorized service organization in your area listed in the yellow pages. If you wish further help or information concerning this limited warranty, contact:

American Standard Inc.
Troup Highway
Tyler, TX 75711-9010
Attention: Manager, After Sales Support

GW-609-4001

* This limited warranty is for residential usage of this equipment and not applicable when this equipment is used for a commercial application. A commercial use is any application where the end purchaser uses the product for other than personal, family or household purposes.
LIMITED WARRANTY
CENTRAL AIR CONDITIONER
TCY, TCX, TCC, TCD, TCH, TCK,
TCM, TCP, THC and TSC
Models Less Than 20 Tons for Commercial Use* (Parts Only)

This warranty is extended by American Standard Inc., to the original purchaser and to any succeeding owner of the real property to which the Air Conditioner is originally affixed, and applies to products purchased and retained for use within the U.S.A. and Canada. There is no warranty against corrosion, erosion or deterioration.

If any part of your Air Conditioner fails because of a manufacturing defect within one year from the date of the original purchase, Warrantor will furnish without charge the required replacement part.

In addition, if the sealed motor-compressor fails because of a manufacturing defect within the second through fifth year from the date of original purchase, Warrantor will furnish without charge the required replacement compressor. Warrantor’s obligations and liabilities under this warranty are limited to furnishing F.O.B. Warrantor factory or warehouse replacement parts for Warrantor’s products covered under this warranty. Warrantor shall not be obligated to pay for the cost of lost refrigerant. No liability shall attach to Warrantor until products have been paid for and then liability shall be limited solely to the purchase price of the equipment under warranty shown to be defective.

THE WARRANTY AND LIABILITY SET FORTH HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES AND LIABILITIES, WHETHER IN CONTRACT OR IN NEGLIGENCE, EXPRESS OR IMPLIED, IN LAW OR IN FACT, INCLUDING BUT NOT SPECIFICALLY LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE, AND IN NO EVENT SHALL WARRANTOR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

American Standard Inc.
Troup Highway
Tyler, TX 75711-9010
Attention: Manager, After Sales Support
GW-602-4800

* This warranty is for commercial usage of said equipment and not applicable when the equipment is used for a residential application. Commercial use is any application where the end purchaser uses the product for other than personal, family or household purposes.