



## **T-SERIES**

AIR CONDITIONERS

T70, 3 TON AND 5 TON MODELS

# INSTRUCTION MANUAL

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**NOTE: Some of the information in this manual may not apply if a special unit was ordered. If additional drawings for a special unit are necessary, they have been inserted. Contact NVent Equipment Protection if further information is required.**

## WARRANTY AND RETURN POLICY

<https://hoffman.nvent.com/en/hoffman/warranty-information>

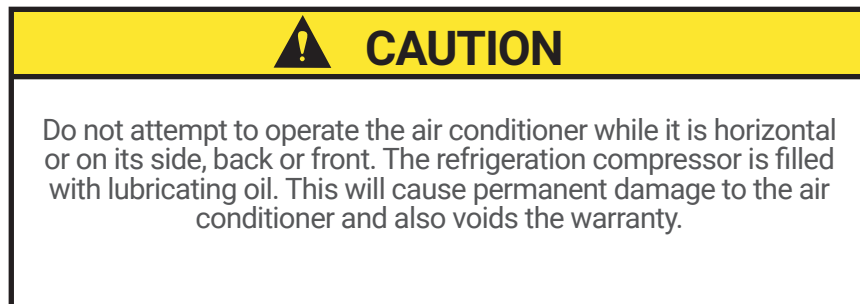
## RECEIVING THE AIR CONDITIONER

Inspect the air conditioner. Check for concealed damage that may have occurred during shipment. Look for dents, scratches, loose assemblies, evidence of oil, etc. Damage evident upon receipt should be noted on the freight bill. Damage should be brought to the attention of the delivering carrier – NOT to nVent Equipment Protection – within 15 days of delivery. Save the carton and packing material and request an inspection. Then file a claim with the delivering carrier.

nVent Equipment Protection cannot accept responsibility for freight damages; however, we will assist you in any way possible.

## HANDLING AND TESTING THE AIR CONDITIONER

If the air conditioner has been in a horizontal position, be certain it is placed in an upright, vertical or mounting position for a minimum of five (5) minutes before operating.



TEST FOR FUNCTIONALITY BEFORE MOUNTING THE AIR CONDITIONER TO THE ENCLOSURE.

Refer to the nameplate for proper electrical current requirements, and then connect the power cord to a properly grounded power supply. Minimum circuit ampacity should be at least 125% of the amperage shown in the design data section for the appropriate model. No other equipment should be connected to this circuit to prevent overloading.

Immediately after applying power the evaporator blower (enclosure air) should start running. Operate the air conditioner with the compressor running for five (5) to ten (10) minutes.

Condenser air temperatures should be warmer than normal room temperatures within a few minutes after the condenser air blower starts.

The compressor is provided with automatic reset thermal overload protection. This thermo-switch is located and mounted inside the plastic enclosure clipped to the compressor. The switch operates when the compressor overheats due to clogged or dirty inlet air filter or if ambient air temperatures exceed nameplate rating or if enclosure dissipated heat loads exceed the rated capacity of the air conditioner. The thermal overload switch will actuate and stop compressor operation. The blowers will continue to operate and the compressor will restart after it has cooled to within the thermal overload cut-in temperature setting.

## HOW TO READ MODEL NUMBERS

|     |    |   |   |      |
|-----|----|---|---|------|
| T70 | 60 | 2 | 6 | G150 |
| 1   | 2  | 3 | 4 | 5    |

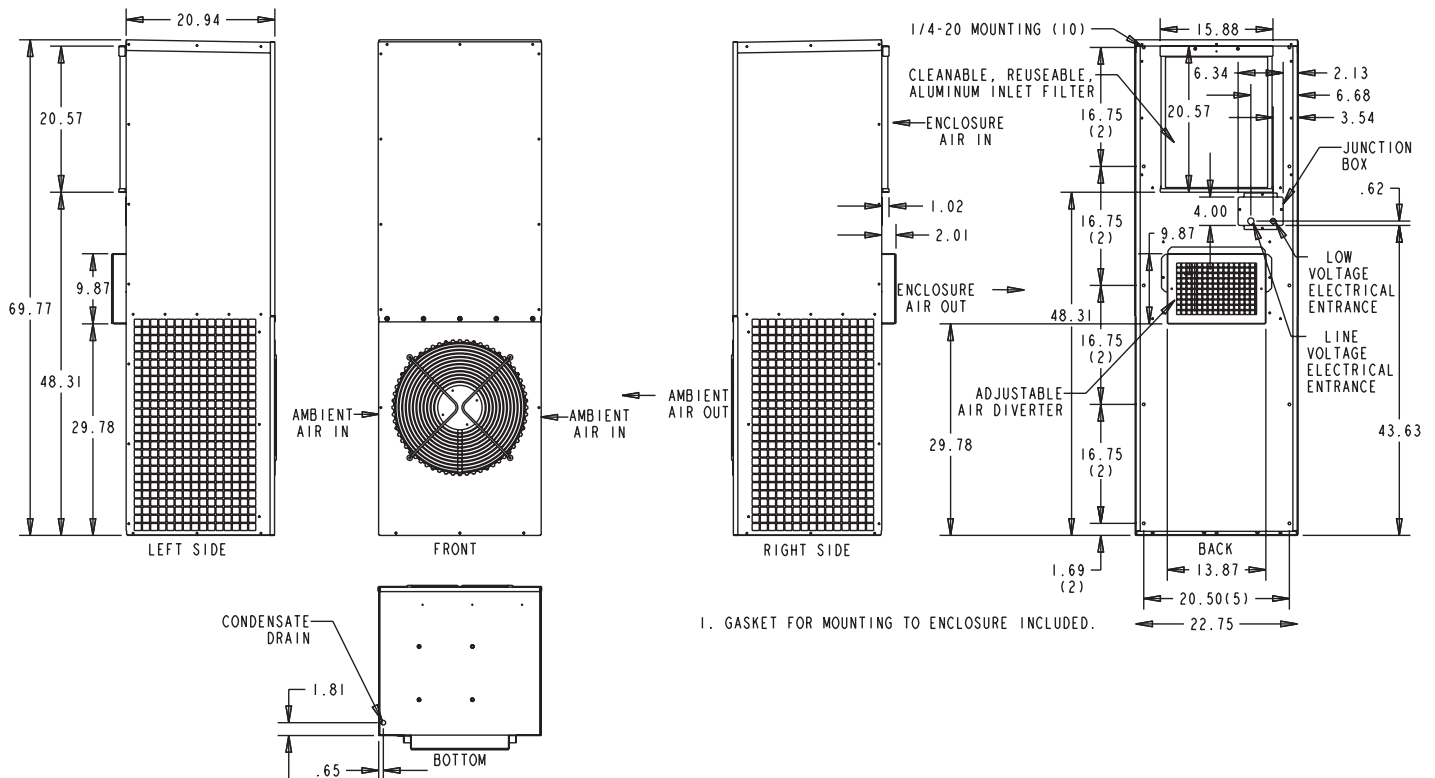
1. Identifies the type/family of air conditioner and the approximate height (i.e. T70 = Outdoor family about 70 inches high).
2. This is the air conditioners listed capacity in BTU/Hr. at rated conditions. (i.e. 60 = 60,000 BTU/Hr. at 126/126 F)
3. 1 = 115 Volt, 2 = 230 Volt, 4 = 460 Volt
4. 6 = 50/60 Hz or 60 Hz only
5. Unique set of numbers for each air conditioner which identifies the accessories on a model.

# INSTALLATION INSTRUCTIONS

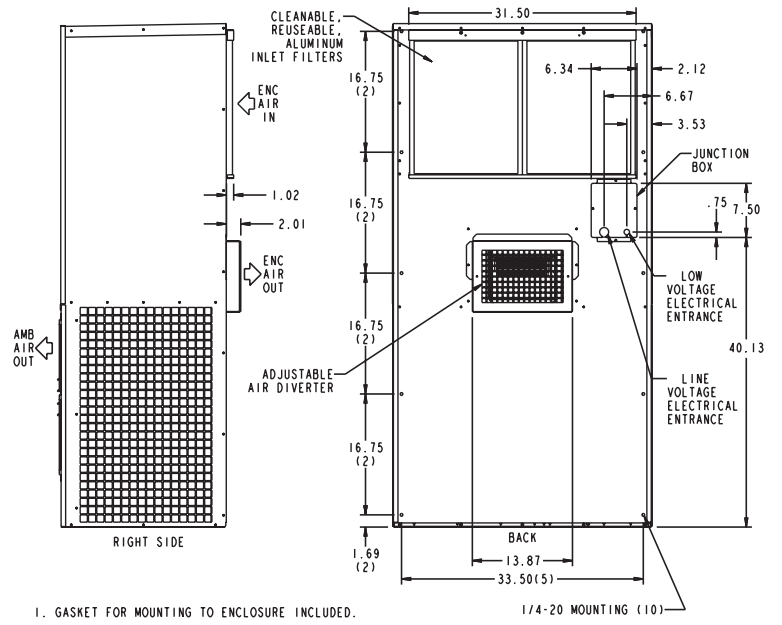
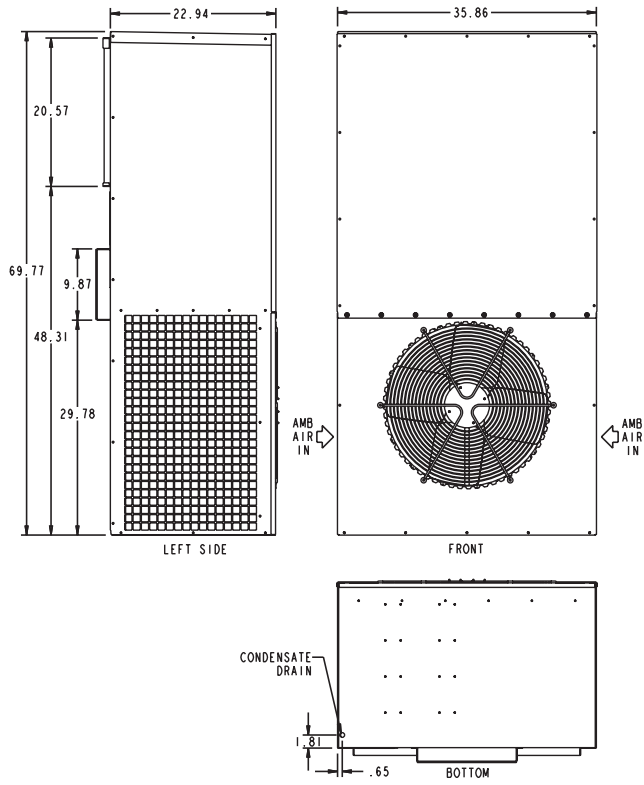
1. Inspect the air conditioner and verify correct functionality before mounting the air conditioner. See HANDLING AND TESTING THE AIR CONDITIONER on page 3.
2. Using the mounting gasket kit provided with the unit, install gaskets to the air conditioner. See Mounting Cutout Dimensions on page 6 of this manual.
3. Mount air conditioner on enclosure taking care not to damage the mounting gasket. The mounting gasket is the seal between the air conditioner and the enclosure. Avoid dragging the air conditioner on the enclosure with the mounting gasket attached as this could cause rips or tears in the gasket and risk losing the water tight seal.
4. To avoid cross-threading mounting inserts, start bolts by hand before tightening with a wrench or ratchet driver.
5. Allow unit to remain upright for a minimum of five (5) minutes before starting. Caution! Air conditioner must be in upright position during operation.
6. Refer to the nameplate for electrical requirements. Wire the unit to a properly grounded power supply. Electrical circuit should be fused with slow blow or HACR circuit breaker.
7. Some air conditioners require a remote mounted thermostat. Wire the thermostat outputs to the appropriate terminals on the 24VAC terminal strip (note locations on the wiring diagram).
8. Set thermostat for required cabinet temperature. Refer to Sequence of Operation for thermostat adjustment & operation.

## DIMENSIONAL DRAWINGS

### 3 TON

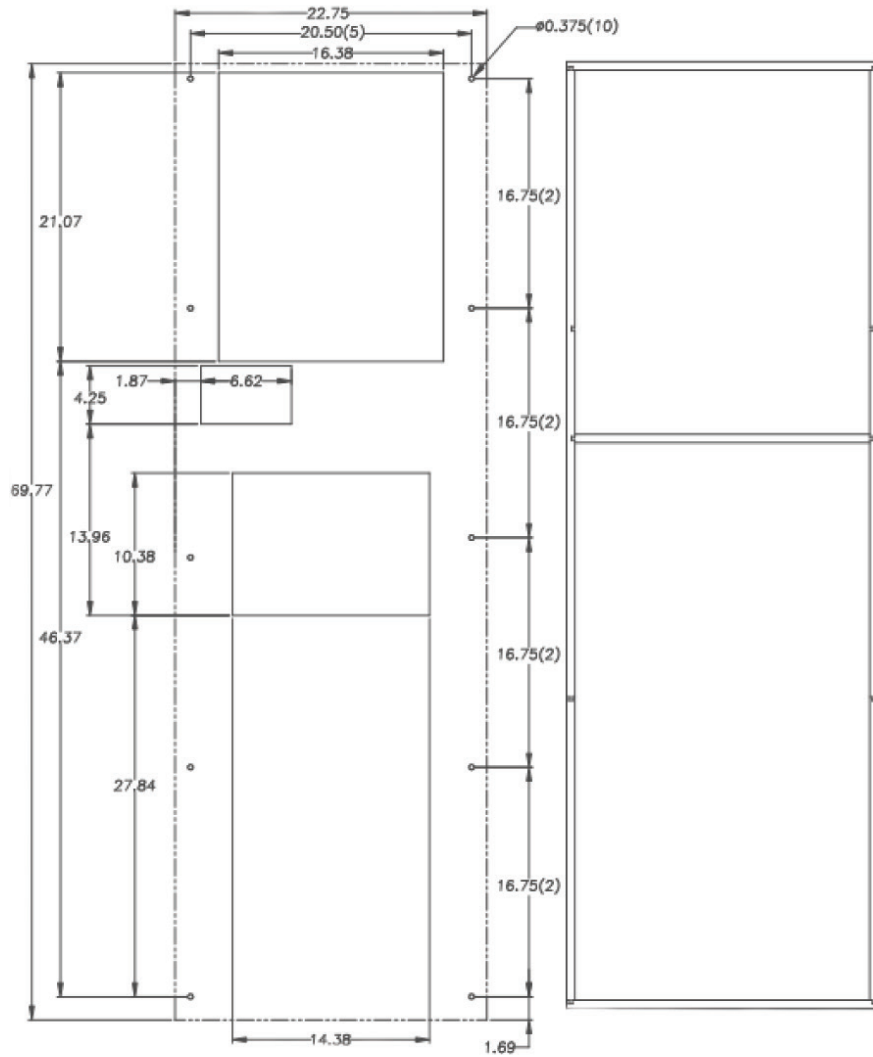


# 5 TON



# MOUNTING CUTOUT DIMENSIONS

## 3 TON

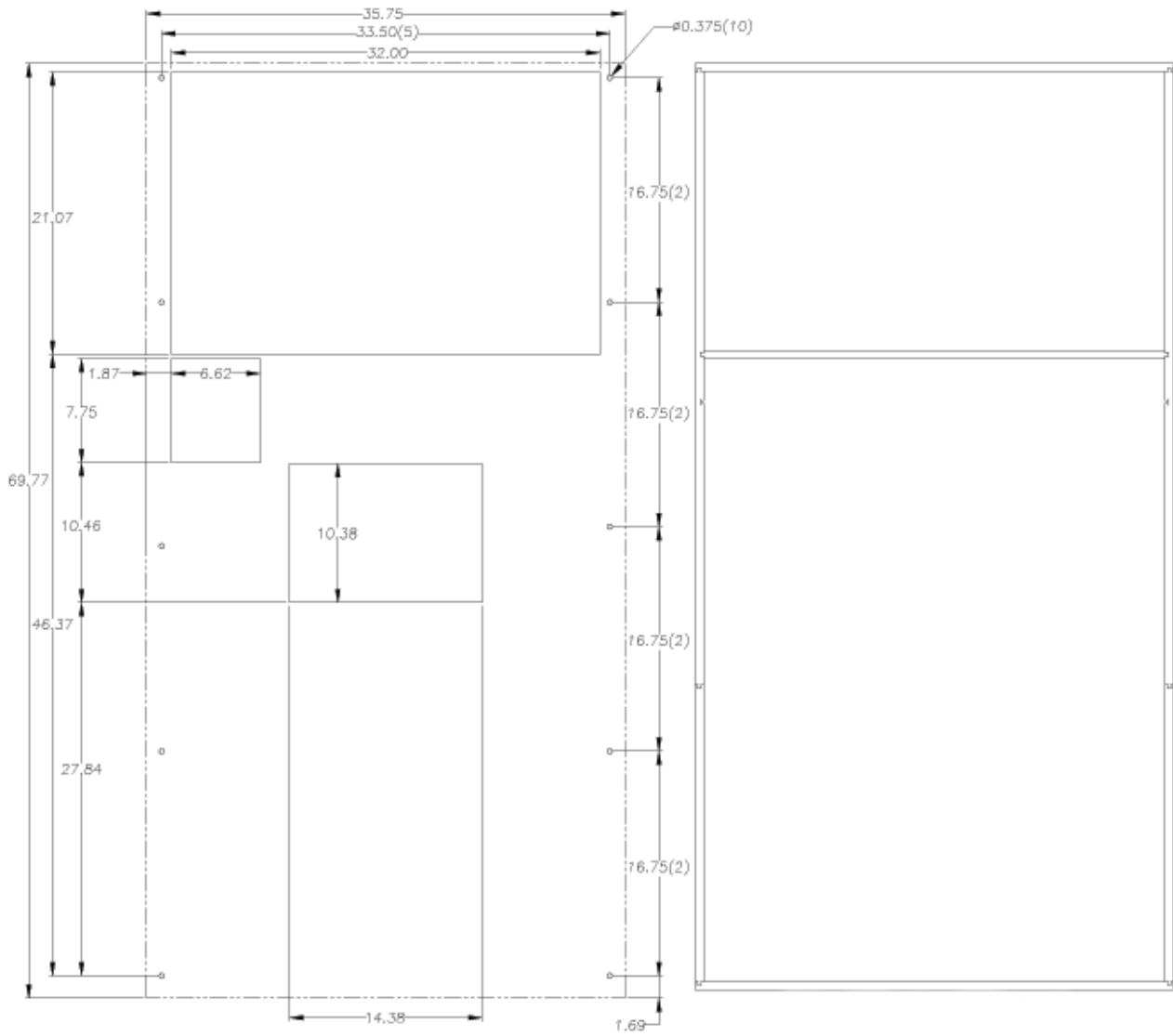


Mounting Gasket kit, 70-1000-50 included. Apply gasket to back of air conditioner before mounting to enclosure.

### CUTOUT INSTRUCTIONS (As viewed from outside of enclosure)

**NOTE: Dashed lines represent air conditioner.**

# 5 TON



Mounting Gasket kit, 70-1000-52 included. Apply gasket to back of air conditioner before mounting to enclosure.

## CUTOUT INSTRUCTIONS (As viewed from outside of enclosure)

**NOTE: Dashed lines represent air conditioner.**

# TECHNICAL INFORMATION

## SEQUENCE OF OPERATION

The air conditioner comes standard with two internally mounted thermostats. There are two modes of operation; heating and cooling. During heating and cooling modes the evaporator fan will be running.

### HEATING

When the enclosure temperature is below the heating thermostat setpoint, power is applied to the heaters. When the enclosure temperature is 10 degrees above the setpoint the heater is powered off.

### COOLING

When the enclosure temperature is above the cooling thermostat setpoint, power is applied through the dual pressure control, then to the time delay relay. After the delay time the contactor is energized and the compressor starts. The condenser fan will start once the condenser discharge air temperature gets above 70°F. Component specific information is listed below.

Operating the air conditioner below the minimum ambient temperature or above the maximum ambient temperatures indicated on the nameplate voids all warranties.

The moisture that the enclosure air can contain is limited. If moisture flows from the drain tube continuously this can only mean that ambient air is entering the enclosure. Be aware that frequent opening of the enclosure's door admits humid air that the air conditioner must then dehumidify.

## STANDARD AND OPTIONAL COMPONENT OPERATION

### THERMOSTAT

The T70 air conditioner uses our standard 10-1061-16 thermostat. The thermostat setpoint equals the temperature that the air conditioner turns off. The thermostat has a 10° F differential from setpoint until it calls for cooling or heating. An example of operation is shown below.

#### FOR COOLING (75-100 F RANGE):

- Thermostat setpoint = 80 F
- Cooling turns on at 90 F
- Cooling turns off at 80 F

#### FOR HEATING (55-65°F RANGE):

- Thermostat setpoint = 55 F
- Heating turns on at 55 F
- Heating turns off at 65 F

**Note: For testing purposes only, the thermostat stop screw may be removed (on units so equipped) to allow settings below 70 F. After testing, replace the stop screw and verify that the thermostat can not be set below 70 F. Extended operation below 70 F can cause coil freeze ups resulting in reduced load and/or unit damage.**

### LOW PRESSURE CONTROL

Low pressure cutout is 15 psi.

The low pressure control will prevent the compressor from operating when the system experiences low pressure (i.e. loss of charge). The low pressure cutout is an automatic reset.

### TIME DELAY RELAY

Factory set for 5 minutes.

The purpose of the time delay relay is to prevent short cycling of the compressor.



## HEAD PRESSURE CONTROL

Unit is set at the factory, no adjustment necessary.

At condenser saturated discharge temperatures below 70° F, the condenser fan is not powered and the LED's are not lit. At saturated condensing temperatures between 70-100° F the yellow LED is lit and the fan is being regulated under full speed. At temperatures above 100° F the green LED is lit and the fan is operating at full speed.

## CONTACTOR

The 5 ton version uses a 24V coil on the contactor. The 3 ton version uses a 230V coil on the contactor.

## TRANSFORMER

The transformer is 24V and is used to power the contactor coil, time delay circuit and head pressure control on the 5-ton unit. On the 3-ton unit, the transformer is used to power the head pressure control only.

## REFRIGERANT PROPERTIES (407C)

| °F  | °C    | Bubble Point | Dew Point |  | °F  | °C   | Bubble Point | Dew Point |
|-----|-------|--------------|-----------|--|-----|------|--------------|-----------|
| -40 | -40   | 2.9          | 4.5       |  | 60  | 15.6 | 117.7        | 96.8      |
| -35 | -37.2 | 5.2          | .7        |  | 65  | 18.3 | 128.7        | 106.7     |
| -30 | -34.4 | 7.9          | 1.7       |  | 70  | 21.1 | 140.2        | 117.2     |
| -25 | -31.7 | 10.7         | 4         |  | 75  | 23.9 | 152.5        | 128.4     |
| -20 | -28.9 | 13.9         | 6.5       |  | 80  | 26.7 | 165.5        | 140.4     |
| -15 | -26.1 | 17.3         | 9.3       |  | 85  | 29.4 | 179.2        | 153.1     |
| -10 | -23.3 | 21.1         | 12.4      |  | 90  | 32.2 | 193.6        | 166.5     |
| -5  | -20.6 | 25.2         | 15.8      |  | 95  | 35   | 208.8        | 180.8     |
| 0   | -17.8 | 29.6         | 19.5      |  | 100 | 37.8 | 224.9        | 195.8     |
| 5   | -15   | 34.4         | 23.6      |  | 105 | 40.6 | 241.8        | 211.8     |
| 10  | -12.2 | 39.6         | 28        |  | 110 | 43.3 | 259.6        | 228.7     |
| 15  | -9.4  | 45.2         | 32.7      |  | 115 | 46.1 | 278.2        | 246.5     |
| 20  | -6.7  | 51.3         | 37.9      |  | 120 | 48.9 | 297.8        | 265.3     |
| 25  | -3.9  | 57.8         | 43.6      |  | 125 | 51.7 | 318.3        | 285.2     |
| 30  | -1.1  | 64.7         | 49.6      |  | 130 | 54.4 | 339.9        | 306.1     |
| 35  | 1.7   | 72.2         | 56.2      |  | 135 | 57.2 | 362.4        | 328.2     |
| 40  | 4.4   | 80.2         | 63.2      |  | 140 | 60   | 386          | 351.4     |
| 45  | 7.2   | 88.7         | 70.7      |  | 145 | 62.8 | 410.7        | 375.9     |
| 50  | 10    | 97.8         | 78.8      |  | 150 | 65.6 | 436.5        | 401.7     |
| 55  | 12.8  | 107.5        | 87.5      |  |     |      |              |           |

### 36000 BTU/HR., 59000 BTU/HR. UNIT CHARACTERISTICS

|   | Model            |                  |
|---|------------------|------------------|
|   | T703626GXXX      | T706026GXXX      |
| <b>Dimensional Data</b>                                     |                  |                  |
| Height  | 69.8" / 1772 mm  |                  |
| Width   | 22.8" / 578 mm   | 35.9" / 911 mm   |
| Depth   | 20.9" / 531 mm   | 22.9" / 583 mm   |
| Unit Weight   | 340 lbs / 155 kg | 419 lbs / 191 kg |
| Unit Protection Rating                                      | Type 12, 4       |                  |
| <b>Cooling Data</b>   |                  |                  |
| Refrigerant   | R-407c           |                  |
| Refrigerant Charge  | 128 oz / 3629 g  | 150 oz / 4252 g  |
| Cooling Capacity at 95 F Enclosure 95 F Ambient (BTU/Hr./W) | 36,130 / 10,579  | 54,500 / 15,960  |
| Cooling Capacity at Max Conditions (BTU/Hr./W)              | 42,930 / 12,570  | 41,250 / 12,080  |
| Maximum Ambient Temp  | 131 F / 55 C     | 120°F / 49°C     |
| Minimum Ambient Temp  | -40 F / -40 C    |                  |
| Enclosure Airflow   | 1,171 cfm        | 1,629 cfm        |
| External Airflow  | 2,347 cfm        | 2,931 cfm        |
| Condensate Management                                       | Hose discharge   |                  |
| <b>Heating Data</b>   |                  |                  |
| Capacity  | 2000W            |                  |
| <b>Electrical Data</b>                                      |                  |                  |
| Rated Voltage (50/60 Hz)                                    | 200 V / 230 V    |                  |
| Rated Frequency   | 50 / 60 Hz       |                  |
| Voltage Range   | +/- 10% of rated |                  |
| Cooling Amps at Max Conditions (50/60 Hz)                   | 36.0 A           | 35.0 / 40.0 A    |
| Heating Amps  | 8.7 A            |                  |
| Compressor RLA / LRA  | 19.2 / 112       | 30.1 A / 144 A   |
| Evaporator Fan RLA*   | 2.8 A            | 3.7 A            |
| Condenser Fan RLA*  | 1.7 A            | 1.2 A            |

-XXX will be replaced with a three-digit number designating all desired options. Consult the factory for specific model numbers.

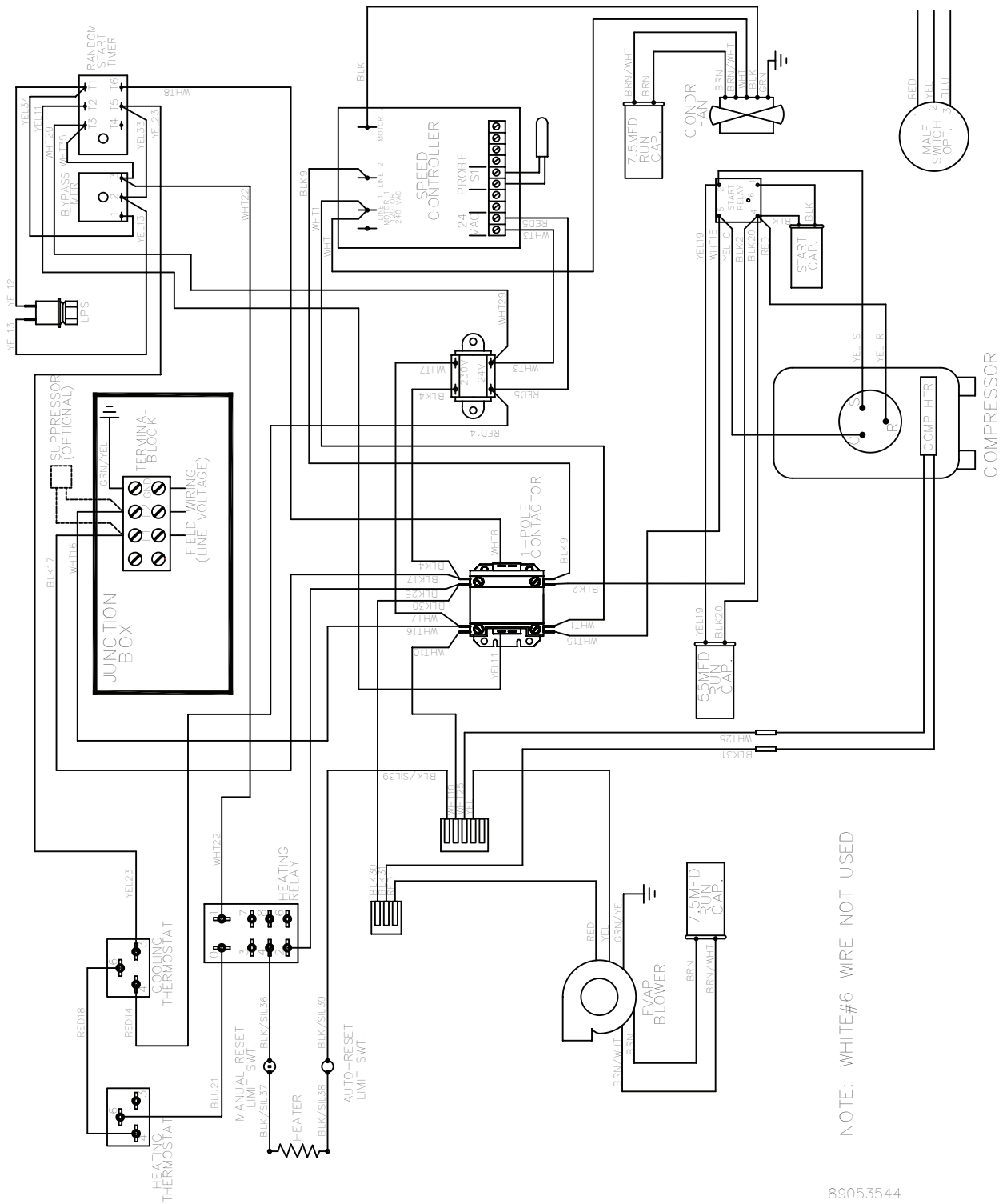
## FUNCTIONAL DATA

| 3 Ton Units            |              |                           |                          |                      |                     |
|------------------------|--------------|---------------------------|--------------------------|----------------------|---------------------|
| Evaporator. Air In(°F) | Unit Amps(A) | Evaporator Pressure (psi) | Condenser Pressure (psi) | Evaporator Delta(°F) | Condenser Delta(°F) |
| 65-80                  | 16.5-19.5    | 45-70                     | 170-230                  | 20-30                | 20-30               |
| 80-100                 | 18.5-25.5    | 60-110                    | 210-345                  | 20-35                | 20-30               |

| 5 Ton Unit             |                       |              |                           |                          |                      |                     |                           |
|------------------------|-----------------------|--------------|---------------------------|--------------------------|----------------------|---------------------|---------------------------|
| Evaporator. Air In(°F) | Condenser. Air In(°F) | Unit Amps(A) | Evaporator Pressure (psi) | Condenser Pressure (psi) | Evaporator Delta(°F) | Condenser Delta(°F) | Condenser Subcooling (°F) |
| 70                     | 70                    | 23-25        | 45-51                     | 196-216                  | 20-28                | 17-28               | 8-14                      |
| 70                     | 90                    | 27-29        | 48-54                     | 250-270                  | 20-28                | 17-28               | 8-14                      |
| 95                     | 110                   | 33-36        | 65-71                     | 350-370                  | 20-28                | 17-28               | 8-14                      |

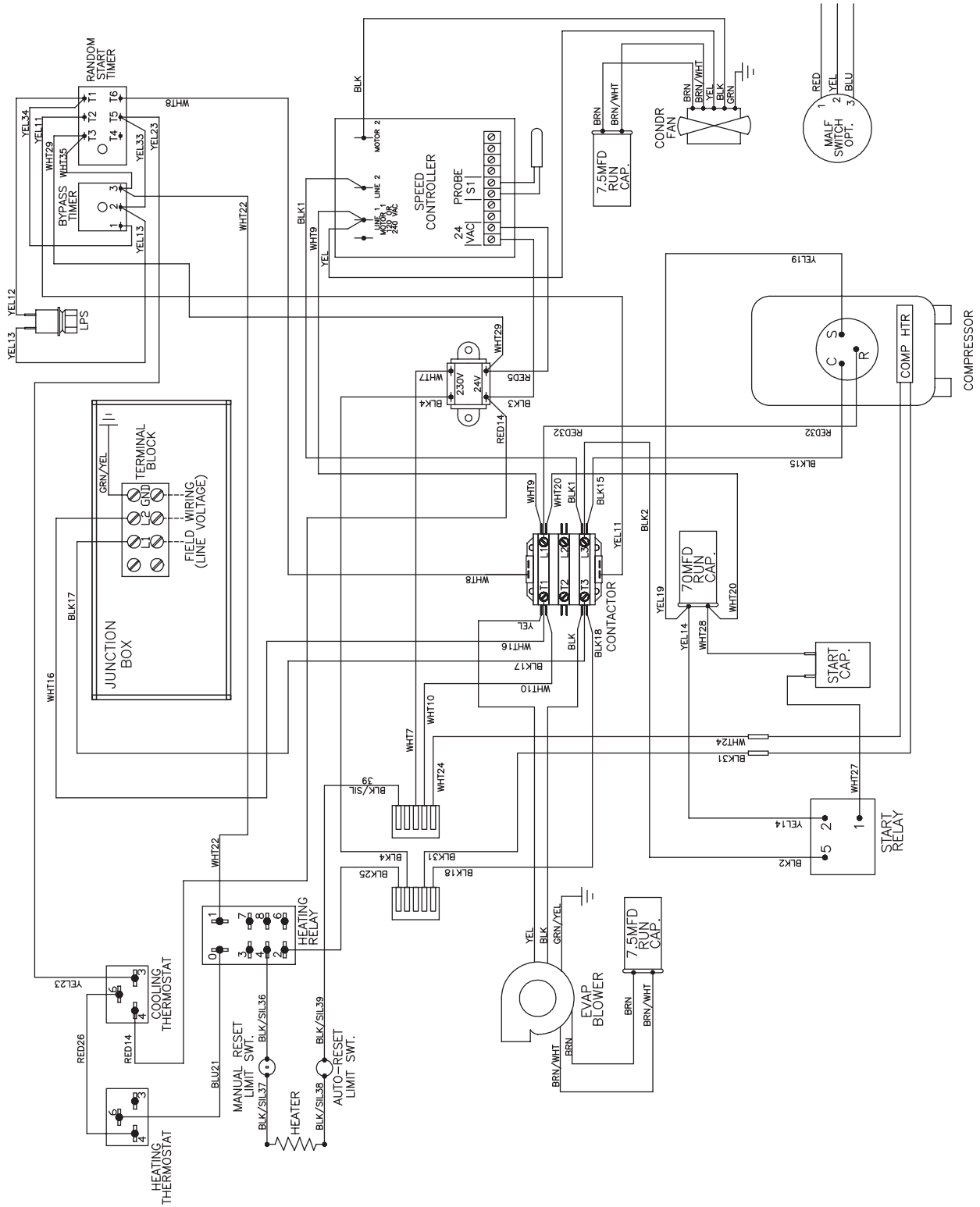
# WIRE DIAGRAMS

## 3 TON



89053544

# 5 TON



# SERVICE DATA

## COMPONENT LIST

| Part Description (3 Ton Unit)        | Part Number |
|--------------------------------------|-------------|
| Blower Motor, Condenser              | 10-1020-32  |
| Blower Motor, Evaporator             | 10-1020-27  |
| Capacitor, Condenser Blower          | 52-6084-00  |
| Capacitor, Evaporator Blower         | 52-6084-00  |
| Capacitor, Compressor, Run           | 52-6032-28  |
| Capacitor, Compressor, Start         | 10-1032-08  |
| Time Delay Relay                     | 10-1005-76  |
| Coil, Condenser                      | 70-1001-20  |
| Coil, Evaporator                     | 70-1002-00  |
| Compressor                           | 89067764    |
| Contactora, Compressor               | 89084273    |
| Controller, Head Pressure            | 10-1106-108 |
| Evaporator Inlet Filter (1 per unit) | 10-1000-04  |
| Evaporator Discharge Register        | 62-1020-00  |
| Filter/Dryer                         | 52-6028-06  |
| Grille, Condenser Fan                | 13-1014-09  |
| Prop, Condenser Fan                  | 10-1072-62  |
| Switch, Low Pressure                 | 52-6104-38  |
| Thermal Expansion Valve              | 10-1040-45  |
| Transformer                          | 10-1006-143 |
| Thermostat                           | 10-1061-16  |

| Part Description (5 Ton Unit)        | Part Number |
|--------------------------------------|-------------|
| Blower Motor, Condenser              | 10-1020-80  |
| Blower Motor, Evaporator             | 10-1020-27  |
| Capacitor, Condenser Blower          | 52-6084-00  |
| Capacitor, Evaporator Blower         | 52-6084-00  |
| Capacitor, Compressor, Run           | 52-6032-11  |
| Time Delay Relay                     | 10-1005-76  |
| Coil, Condenser                      | 70-1001-21  |
| Coil, Evaporator                     | 70-1002-01  |
| Compressor                           | 10-1026-25  |
| Contactora, Compressor               | 10-1005-79  |
| Controller, Head Pressure            | 10-1106-108 |
| Evaporator Inlet Filter (2 per unit) | 10-1000-04  |
| Evaporator Discharge Register        | 62-1020-00  |
| Filter/Dryer                         | 52-6028-09  |
| Grille, Condenser Fan                | 13-1014-11  |
| Prop, Condenser Fan                  | 10-1072-79  |
| Switch, Low Pressure                 | 52-6104-38  |
| Thermal Expansion Valve              | 10-1040-44  |
| Transformer                          | 10-1006-143 |
| Thermostat                           | 10-1061-16  |

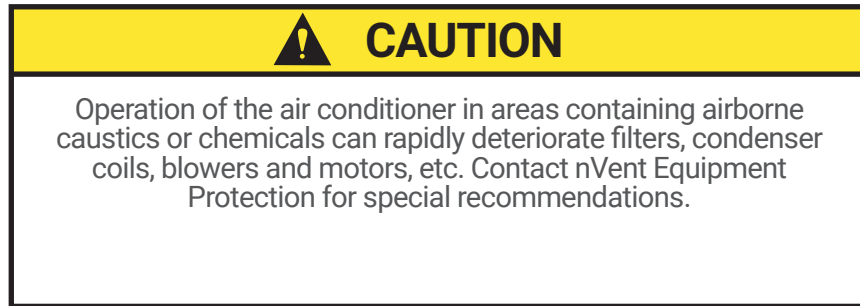
## MAINTENANCE

### COMPRESSOR

The compressor requires no maintenance. It is hermetically sealed, properly lubricated at the factory and should provide years of satisfactory operating service.

### CONDENSER AND EVAPORATOR AIR MOVERS

Blower motors require no maintenance. All bearings, shafts, etc. are lubricated during manufacturing for the life of the motor.



### REFRIGERANT LOSS

Each air conditioner is thoroughly tested prior to leaving the factory to insure against refrigeration leaks. Shipping damage or microscopic leaks not found with sensitive electronic refrigerant leak detection equipment during manufacture may require repair or recharging of the system. This work should only be performed by qualified professionals, generally available through a local, reputable air conditioning repair or service company.

Should the refrigerant charge be lost, access ports on the suction and discharge sides of the compressor are provided for recharging and/or checking suction and discharge pressures. Under no circumstances should the access fitting covers be loosened, removed or tampered with. Breaking of seals on compressor access fittings during warranty period will void warranty on hermetic system. Recharging ports are provided for the ease and convenience of reputable refrigeration repair service personnel for recharging the air conditioner.

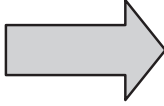
Refer to the data on the nameplate that specifies the type of refrigerant and the charge size in ounces.

**Before recharging, make sure there are no leaks and that the system has been properly evacuated into a deep vacuum. Technician must weigh in charge according to the nameplate specifications.**

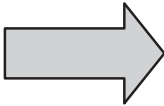
# TROUBLE SHOOTING

## BASIC AIR CONDITIONING TROUBLE SHOOTING CHECK LIST

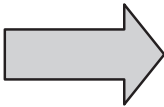
1. Check manufacturer's nameplate located on the unit for correct power supply.
2. Turn on power to the unit. The evaporator (Enclosure or "COLD" air) fan should come on. Is there airflow?

|   |
|---|
| YES, proceed to step 3.   |
| NO, possible problem: <ul style="list-style-type: none"><li>• Open motor winding</li><li>• Stuck blower motor</li><li>• Obstructed blades</li></ul> |
|   |
| <b>Repair or Replace defective part</b>   |

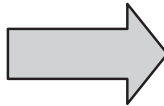
3. Check thermostat setting and adjust thermostat to the lowest setting. This should turn the condenser fan and the compressor on. Did condenser fan and compressor come on when the thermostat was turned on?

|  |
|--|
| YES, proceed to step 4.  |
| NO, possible problem: <ul style="list-style-type: none"><li>• Defective thermostat</li></ul> |
|            |
| <b>Replace Part</b>  |

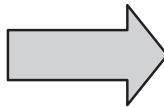
4. Are both blowers and the compressor running? If not the unit will not cool properly.
5. Check condenser (Ambient or "HOT" air) fan for airflow. Is there airflow?

|   |
|---|
| YES, proceed to step 6.   |
| NO, possible problem: <ul style="list-style-type: none"><li>• Defective thermostat</li><li>• Open motor winding</li><li>• Stuck blower motor</li><li>• Obstructed wheels/blades</li></ul> |
|   |
| <b>Repair or Replace defective part</b>   |

6. Carefully check the compressor for operation - motor should cause slight vibration, and the outer case of the compressor should be warm. Is the compressor showing signs of this?

|   |
|---|
| YES, wait 5 minutes, then proceed to step 7.  |
| NO, possible problem: <ul style="list-style-type: none"><li>• Defective thermostat</li><li>• Defective capacitor</li><li>• Defective overload</li><li>• Defective relay</li></ul> |
|   |
| <b>Repair or Replace defective part</b>   |

7. Make sure the coils are clean. Then check evaporator "air in" and "air out" temperatures. If the temperatures are the same:

|  |
|--|
| <ul style="list-style-type: none"><li>• Possible loss of refrigerant</li><li>• Possible bad valves in the compressor</li></ul> |
|    |
| <b>Repair or Replace defective part</b>  |

8. To check for a bad thermostat, turn power to the unit off. Remove the control box cover and place both thermostat wires onto one terminal (replace control box cover for safety). This will activate the switch in the thermostat. Turn the power on and if both blowers and the compressor come on, the thermostat needs to be replaced.



## SYMPTOMS AND POSSIBLE CAUSES:

| SYMPTOM                                 | POSSIBLE CAUSE   |
|---|--|
| Unit won't cool                         | Clogged fins on coil(s)                                    |
|   | Dirty filter   |
|   | blowers/fans not running                                   |
|   | Compressor not running                                     |
|   | Compressor runs, but has bad valves                        |
|   | Loss of refrigerant  |
| Compressor tries to start but won't run | Low line voltage at start. Should be +/-10% rated voltage. |
|   | Compressor motor stuck                                     |
|   | Bad contactor  |
|   | Bad overload switch  |
|   | Bad run/start capacitor                                    |
| Unit blows breakers                     | Undersized breaker/fuse or not time delayed                |
|   | Short in system  |
| Getting water in enclosure              | Drain plugged  |
|   | Drain tube kinked  |
|   | Enclosure not sealed (allowing humidity in)                |
|   | Mounting gasket damaged                                    |

For additional technical information (i.e., amp draw, pressures, temperatures) , contact nVent Equipment Protection at 800-896-2665.

## F-GAS INFORMATION

|  | T703626GXXX<br>T703646GXXX              | T706026GXXX<br>T706046GXXX              |
|--|---|---|
| Refrigerant<br>Kühlmittel<br>Chłodziwo   | R407C                                   | R407C                                   |
| GWP  | 1774                                    | 1774                                    |
| Factory Charge<br>Füllmenge durch Hersteller<br>Opłata Fabryczna                       | 3118 Grams<br>3118 Gramm<br>3118 Gramów | 4252 Grams<br>4252 Gramm<br>4252 Gramów |
| CO <sub>2</sub> Equivalent<br>CO <sub>2</sub> Equivalent<br>CO <sub>2</sub> Ekwilalent | 5.53 Tons<br>5,53 Tonnen<br>5,53 Tony   | 7.54 Tons<br>7,54 Tonnen<br>7,54 Tony   |

## NOTES

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