

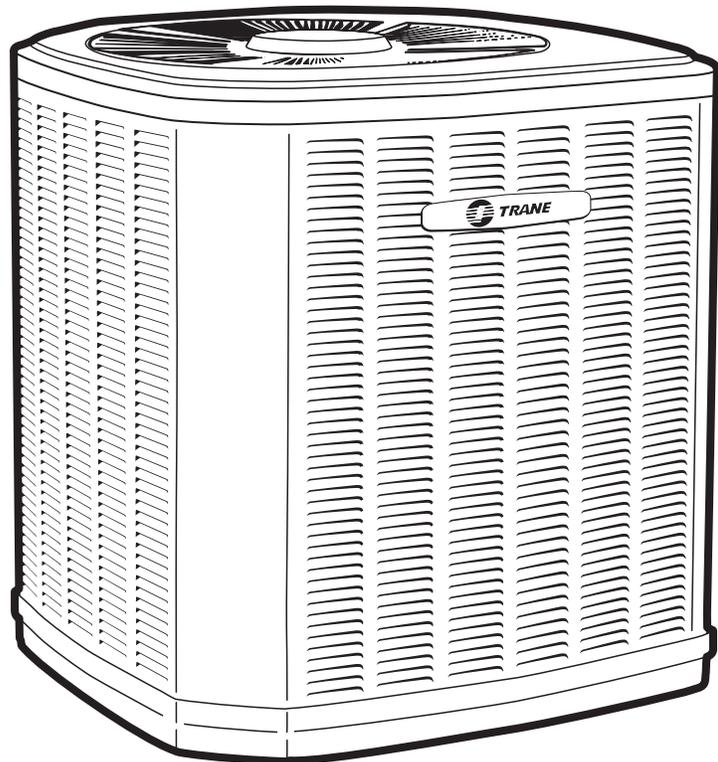


# Split System Cooling Product Data

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**XR15 4TTR5**

**1 1/2 - 5 Tons**



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**PUB. NO. 22-1831-03**



## Features and Benefits

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- **CLIMATUFF®** compressor
- Efficiency up to **17.0 SEER**
- All aluminum **SPINE FIN™** coil
- **WEATHERGUARD™** fasteners
- **QUICK-SESS™** cabinet, service access and refrigerant connections with full coil protection
- **DURATUFF™** base, fast complete drain, weatherproof
- **COMFORT-R™** mode approved
- Glossy corrosion resistant finish
- Internal compressor high/low pressure & temperature protection
- 018, 024, 030 & 060 ship with start kit
- Liquid line filter/drier
- Tarpaulin gray cabinet with anthracite gray badge and cap
- High pressure switch
- Service valve cover
- R-410A refrigerant
- S.E.E.T. design testing
- 100% line run test
- Low ambient cooling to 30°F with AY28X079
- Low ambient cooling to 55°F as shipped
- **Extended warranties available**

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# General Data

## Product Specifications

| Model No. ①                     | 4TTR5018E1     | 4TTR5024E1     | 4TTR5030E1         | 4TTR5036E1          |
|---------------------------------|----------------|----------------|--------------------|---------------------|
| Electrical Data V/Ph/Hz ②       | 208/230/1/60   | 208/230/1/60   | 208/230/1/60       | 208/230/1/60        |
| Min Cir Ampacity                | 9              | 9              | 12                 | 19                  |
| Max Fuse Size (Amps)            | 15             | 15             | 20                 | 30                  |
| Compressors                     | CLIMATUFF®     | CLIMATUFF®     | CLIMATUFF®         | CLIMATUFF® · SCROLL |
| RL AMPS - LR AMPS               | 6.4 - 38.6     | 6.8 - 38.6     | 9.1 - 57.8         | 14.1 - 77           |
| Outdoor Fan FL Amps             | .70            | .70            | 1.00               | 1.00                |
| Fan HP                          | 1/8            | 1/8            | 1/5                | 1/5                 |
| Fan Dia (inches)                | 23             | 23             | 27.6               | 27.6                |
| Coil                            | Spine Fin™     | Spine Fin™     | Spine Fin™         | Spine Fin™          |
| Refrigerant R-410A              | 5/2-LB/OZ      | 6/3-LB/OZ      | 7/0-LB/OZ          | 7/4-LB/OZ           |
| Line Size - (in.) O.D. Gas ③    | 5/8            | 3/4            | 3/4                | 3/4                 |
| Line Size - (in.) O.D. Liquid ③ | 3/8            | 3/8            | 3/8                | 3/8                 |
| Dimensions H x W x D (Crated)   | 34 x 30.1 x 33 | 34 x 30.1 x 33 | 38.4 x 35.1 x 38.7 | 42.4 x 35.1 x 38.7  |
| Weight - Shipping               | 200            | 201            | 234                | 228                 |
| Weight - Net                    | 173            | 174            | 201                | 193                 |
| Start Components                | YES            | YES            | YES                | NO                  |
| Sound Enclosure                 | YES            | YES            | YES                | YES                 |
| Compressor Sump Heat            | NO             | NO             | NO                 | NO                  |
| <b>Optional Accessories: ④</b>  |                |                |                    |                     |
| Anti-short Cycle Timer          | TAYASCT501A    | TAYASCT501A    | TAYASCT501A        | TAYASCT501A         |
| Evaporator Defrost Control A/C  | AY28X079       | AY28X079       | AY28X079           | AY28X079            |
| Rubber Isolator Kit             | BAYISLT101     | BAYISLT101     | BAYISLT101         | BAYISLT101          |
| Crank Case Heater Kit           | BAYCCHT300     | BAYCCHT300     | BAYCCHT300         | BAYCCHT302          |
| Hard Start Kit Scroll           |                |                |                    | BAYKSKT260          |
| Extreme Condition Mounting Kit  | BAYECMT023     | BAYECMT023     | BAYECMT004         | BAYECMT004          |
| Snow Leg - Base & Cap 4" High   | BAYLEGS002     | BAYLEGS002     | BAYLEGS002         | BAYLEGS002          |
| Snow Leg - 4" Extension         | BAYLEGS003     | BAYLEGS003     | BAYLEGS003         | BAYLEGS003          |
| Seacoast Kit                    | BAYSEAC001     | BAYSEAC001     | BAYSEAC001         | BAYSEAC001          |
| Refrigerant Lineset ⑤           | TAYREFLN950    | TAYREFLN7*     | TAYREFLN7*         | TAYREFLN7*          |

① Certified in accordance with the Air-Source Unitary Heat Pump Equipment certification program which is based on ARI Standard 210/240.

② Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.

③ Standard line lengths - 80'. Standard lift - 60' Suction and Liquid line.

For Greater lengths and lifts refer to refrigerant piping software Pub# 32-3312-0\*. (\*denotes latest revision)

④ For accessory description and usage, see page 5.

⑤ \* = 15, 20, 25, 30, 40 and 50 foot lineset available.

### A-weighted Sound Power Level [dB(A)]

| MODEL      | SOUND POWER LEVEL [dB(A)] | A-WEIGHTED FULL OCTAVE SOUND POWER LEVEL dB - [dB(A)] High Stage |      |      |      |      |      |      |      |
|------------|---------------------------|--|------|------|------|------|------|------|------|
|            |                           | 63   | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
| 4TTR5018E1 | 75                        | 24.9   | 44.9 | 56.7 | 71.1 | 74.1 | 72.7 | 62.2 | 49.9 |
| 4TTR5024E1 | 75                        | 23   | 45.4 | 57   | 70.9 | 74.2 | 70.5 | 62.9 | 52.6 |
| 4TTR5030E1 | 75                        | 27.9   | 52.9 | 62.9 | 74.3 | 76.2 | 73   | 64.7 | 52.5 |
| 4TTR5036E1 | 75                        | 23.2   | 51.7 | 64.2 | 72.3 | 74.1 | 71.3 | 62.7 | 49.5 |
| 4TTR5042E1 | 75                        | 22.8   | 52.8 | 65.6 | 73.3 | 75.1 | 71.5 | 62.8 | 50   |
| 4TTR5048E1 | 75                        | 22.8   | 52.8 | 65.6 | 73.3 | 75.1 | 71.5 | 62.8 | 50   |
| 4TTR5060E1 | 75                        | 22.8   | 52.8 | 65.6 | 73.3 | 75.1 | 71.5 | 62.8 | 50   |

Note: Rated in accordance with AHRI Standard 270-2008



# General Data

## Product Specifications

| Model No. ①                     | 4TTR5042E1          | 4TTR5048E1          | 4TTR5060E1          |
|---------------------------------|---------------------|---------------------|---------------------|
| Electrical Data V/Ph/Hz ②       | 208/230/1/60        | 208/230/1/60        | 208/230/1/60        |
| Min Cir Ampacity                | 23                  | 26                  | 34                  |
| Max Fuse Size (Amps)            | 40                  | 45                  | 60                  |
| Compressors                     | CLIMATUFF® - SCROLL | CLIMATUFF® - SCROLL | CLIMATUFF® - SCROLL |
| RL AMPS - LR AMPS               | 17.9 - 112          | 19.9 - 109          | 26.4 - 134          |
| Outdoor Fan FL Amps             | 1.00                | 1.10                | 1.10                |
| Fan HP                          | 1/5                 | 1/5                 | 1/5                 |
| Fan Dia (inches)                | 27.6                | 27.6                | 27.6                |
| Coil                            | Spine Fin™          | Spine Fin™          | Spine Fin™          |
| Refrigerant R-410A              | 8/4-LB/OZ           | 8/5-LB/OZ           | 8/8-LB/OZ           |
| Line Size - (in.) O.D. Gas ③    | 7/8                 | 7/8                 | 7/8                 |
| Line Size - (in.) O.D. Liquid ③ | 3/8                 | 3/8                 | 3/8                 |
| Dimensions H x W x D (Crated)   | 46.4 x 35.1 x 38.7  | 51 x 35.1 x 38.7    | 51 x 35.1 x 38.7    |
| Weight - Shipping               | 272                 | 282                 | 285                 |
| Weight - Net                    | 235                 | 245                 | 248                 |
| Start Components                | NO                  | NO                  | YES                 |
| Sound Enclosure                 | YES                 | YES                 | YES                 |
| Compressor Sump Heat            | NO                  | NO                  | NO                  |
| <b>Optional Accessories: ④</b>  |                     |                     |                     |
| Anti-short Cycle Timer          | TAYASCT501A         | TAYASCT501A         | TAYASCT501A         |
| Evaporator Defrost Control A/C  | AY28X079            | AY28X079            | AY28X079            |
| Rubber Isolator Kit             | BAYISLT101          | BAYISLT101          | BAYISLT101          |
| Crank Case Heater Kit           | BAYCCHT301          | BAYCCHT301          | BAYCCHT301          |
| Hard Start Kit Scroll           | BAYKSKT260          | BAYKSKT260          |                     |
| Extreme Condition Mounting Kit  | BAYECMT004          | BAYECMT004          | BAYECMT004          |
| Snow Leg - Base & Cap 4" High   | BAYLEGS002          | BAYLEGS002          | BAYLEGS002          |
| Snow Leg - 4" Extension         | BAYLEGS003          | BAYLEGS003          | BAYLEGS003          |
| Seacoast Kit                    | BAYSEAC001          | BAYSEAC001          | BAYSEAC001          |
| Refrigerant Lineset ⑤           | TAYREFLN3*          | TAYREFLN3*          | TAYREFLN3*          |

① Certified in accordance with the Air-Source Unitary Heat Pump Equipment certification program which is based on ARI Standard 210/240.

② Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.

③ Standard line lengths - 80'. Standard lift - 60' Suction and Liquid line.

For Greater lengths and lifts refer to refrigerant piping software Pub# 32-3312-01. (\*denotes latest revision)

④ For accessory description and usage, see page 5.

⑤ \* = 15, 20, 25, 30, 40 and 50 foot lineset available.



# General Data

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## Accessory Description and Usage

**Anti-Short Cycle Timer** — Solid state timing device that prevents compressor recycling until 5 minutes have elapsed after satisfying call or power interruptions. Use in area with questionable power delivery, commercial applications, long lineset, etc.

**Evaporator Defrost Control** — SPST Temperature actuated switch that cycles the condenser off as indoor coil reaches freeze-up conditions. Used for low ambient cooling to 30°F with TXV.

**Rubber Isolators** — 5 large rubber donuts to isolate condensing unit from transmitting energy into mounting frame or pad. Use on any application where sound transmission needs to be minimized.

**Hard Start kit** — Start capacitor and relay to assist compressor motor startup. Use in areas with marginal power supply, on long linesets, low ambient conditions, etc.

**Extreme Condition Mount Kit** — Bracket kits to securely mount condensing unit to a frame or pad without removing any panels. Use in areas with high winds, or on commercial roof tops, etc.

## ARI Standard Capacity Rating Conditions

**ARI STANDARD 210/240 RATING CONDITIONS** —  
(A) Cooling 80°F DB, 67°F WB air entering indoor coil,  
95°F DB air entering outdoor coil.

**ARI STANDARD 270 RATING CONDITIONS** — (Noise rating numbers are determined with the unit in cooling operation.) Standard Noise Rating number is at 95°F outdoor air.



ARI Standard  
210/240 UAC





# Model Nomenclature

## Outdoor Units

4 T T R 5 0 3 6 E 1 0 0 0 A A

- Refrigerant Type**
  - 2 = R-22
  - 4 = R-410A
- TRANE**
- Product Type**
  - W = Split Heat Pump
  - T = Split Cooling
- Product Family**
  - Z = Leadership – Two Stage
  - X = Leadership
  - R = Replacement/Retail
  - B = Basic
  - A = Light Commercial
- Family SEER**
  - 0 = 10    3 = 13    6 = 16
  - 1 = 11    4 = 14    8 = 18
  - 2 = 12    5 = 15    9 = 19
- Split System Connections 1-6 Tons**
  - 0 = Brazed
- Nominal Capacity in 000s of BTUs**
- Major Design Modifications**
- Power Supply**
  - 1 = 200-230/1/60 or 208-230/1/60
  - 3 = 200-230/3/60
  - 4 = 460/3/60
- Secondary Function**
- Minor Design Modifications**
- Unit Parts Identifier**

## Gas Furnaces

T U D 2 B 0 8 0 A C V 3 2 A A

- Furnace Configuration**
  - TU = Upflow/Horizontal
  - TD = Downflow/Horizontal
- Type**
  - E = 80% Induced Draft Standard
  - D = 80% Induced Draft Premium
  - C = 90% Condensing Standard
  - X = 90% Condensing Premium
  - H = 95% Condensing Premium
- Number of Heating Stages**
  - 1 = Single Stage
  - 2 = Two Stage
  - 3 = Three Stage
- Cabinet Width**
  - A = 14.5" Cabinet Width
  - B = 17.5" Cabinet Width
  - C = 21.0" Cabinet Width
  - D = 24.5" Cabinet Width
- Heating Input**
  - 080 = 80,000 MBTUH
- Major Design Change**
- Voltage**
  - 9 = 115 Volts / 60 Hertz / Natural Gas
  - A = 115 Volts / 50 Hertz / Natural Gas
  - C = 115 Volts / Natural Gas with Communicating System Control
  - F = 115 Volts / Natural Gas with Integrated Electronic Filter
  - D = 115 Volts / Natural Gas with Communicating System Control and Integrated Electronic Filter
- Air Capacity for Cooling**
  - 36 = 3 Ton Standard PSC Motor
  - H3 = 3 Ton High Efficiency Motor
  - V3 = 3 Ton Variable Speed Motor
- Draft Inducer Speeds**
  - 1 = Single Speed
  - 2 = Two Speed
  - V = Variable Speed
- Minor Design Change**
- Service Digit - Not Orderable**

## Air Handlers – Residential

4 T E E 3 C 0 5 A 1 0 0 0 A A

- Refrigerant Type**
  - 4 = R-410A
  - 2 = R-22
- Application**
  - TE = Fully Convertible
  - TG = Semi Convertible
  - TF = Front Return
  - TV = Vertical
- Product Family**
  - E = Leadership – Variable Speed
  - P = Leadership
  - C = Replacement/Retail
  - B = Basic
- Flow Control**
  - 3 = Nonbleed TXV
  - 4 = FCCV\*
- Feature Identifier**
  - 0 = Standard Unit
  - F = Air-Tite™
  - D = Integrated Whole House Air Cleaner
  - C = Communicating Air Cleaner
- Model Number Distinguisher**
- Major Design Modifications**
- Power Supply**
  - 1 = Single Phase
- Electrical Connection**
  - 0 = Pig Tails
  - B = Circuit Breaker
  - D = Pull Disconnect
- Future Option – Factory Installed Heater Nominal KW Value**
- Minor Design Modifications**
- Unit Parts Identifier**

NOTE: There will be a phase-in of new model numbers for new air handlers over next 2 years.  
\*Shipped with R-22 FCCV

## Coils – Residential

4 T X C B 0 0 1 C C 3 H C A A

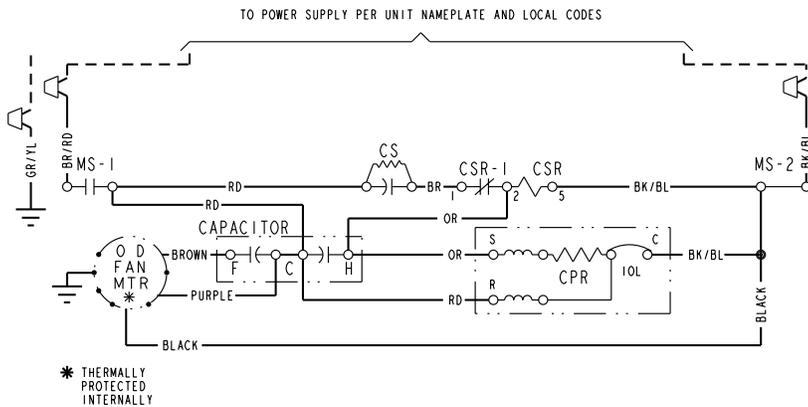
- Refrigerant Type**
  - 4 - R410A
- Product Family**
  - T - Premium (Heat Pump or Convertible Coil)
  - X - Direct Expansion Evaporator Coil
- Coil Design**
  - C - Cased A Coil
  - A - Uncased A Coil
  - F - Cased Horizontal Flat Coil
- Coil Width (Cased/Uncased)**
  - A - 14.5" / 13.3"
  - B - 17.5" / 16.3"
  - C - 21.0" / 19.8"
  - D - 24.5" / 23.3"
  - H - 10.5"
- Refrigerant Line Coupling**
  - 0 - Brazed
- Model Number Distinguisher**
- Major Design Change**
- Efficiency**
  - C - Standard
  - S - Hi Efficiency (Derived from 10 SEER products)
- Refrigerant Control**
  - 3 - TXV - Non-Bleed
- Coil Circuitry**
  - H - Heat Pump
- Airflow Configuration**
  - A - Upflow Only
  - U - Upflow / Downflow
  - H - Horizontal Only
  - C - Convertible - Upflow, Downflow, Left or Right Airflow
- Minor Design Change**
- Unit Parts Identifier**



# Electrical Data

## Schematic Diagrams

### 4TTR5018, 4TTR5024, 4TTR5030



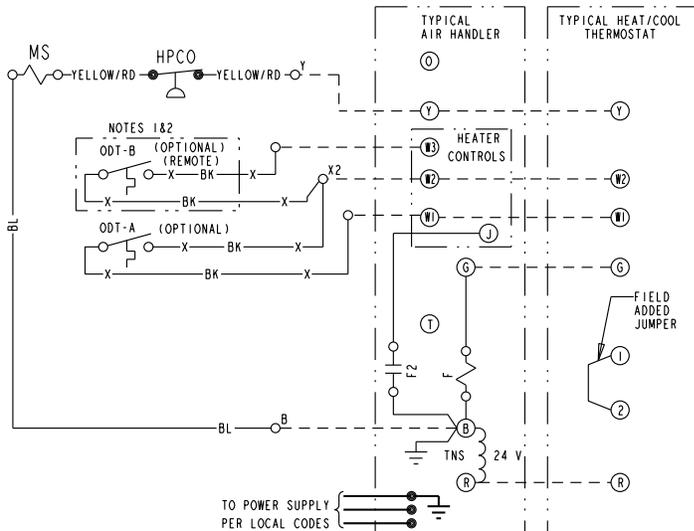
|      |                             |      |                            |
|------|-----------------------------|------|----------------------------|
| CA   | COOLING ANTICIPATOR         | LPCO | LOW PRESSURE CUTOFF SW.    |
| CBS  | COIL BOTTOM SENSOR          | MS   | COMPRESSOR MOTOR CONTACTOR |
| CF   | FAN CAPACITOR               | ODA  | OUTDOOR ANTICIPATOR        |
| CN   | WIRE CONNECTOR              | OFT  | OUTDOOR FAN THERMOSTAT     |
| CPR  | COMPRESSOR                  | ODS  | OUTDOOR TEMPERATURE SENSOR |
| CR   | RUN CAPACITOR               | ODT  | OUTDOOR THERMOSTAT         |
| CS   | STARTING CAPACITOR          | RHS  | RESISTANCE HEAT SWITCH     |
| CSR  | CAPACITOR SWITCHING RELAY   | SC   | SWITCHOVER VALVE SOLENOID  |
| DFC  | DEFROST CONTROL             | SM   | SYSTEM "ON-OFF" SWITCH     |
| F    | INDOOR FAN RELAY            | TDL  | DISCHARGE LINE THERMOSTAT  |
| HA   | HEATING ANTICIPATOR         | TNS  | TRANSFORMER                |
| HPCO | HIGH PRESSURE CUTOFF SW.    | TS   | HEATING-COOLING THERMOSTAT |
| IOL  | INTERNAL OVERLOAD PROTECTOR | TSH  | HEATING THERMOSTAT         |

|   |  |
|---|--|
| <p><b>⚠ WARNING</b><br/>HAZARDOUS VOLTAGE!<br/>DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.<br/>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!</p> | <p><b>⚠ CAUTION</b><br/>USE COPPER CONDUCTORS ONLY!<br/>UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.<br/>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!</p> |
|---|--|

|                 |                             |    |
|-----------------|-----------------------------|----|
| COLOR OF WIRE   |                             |    |
| BK/BL           | BLACK WIRE WITH BLUE MARKER |    |
| COLOR OF MARKER |                             |    |
| BK              | OR                          | YL |
| BL              | RD                          | GR |
| BR              | WH                          | PR |

**NOTES:**

- IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.  
IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
- IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
- LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.



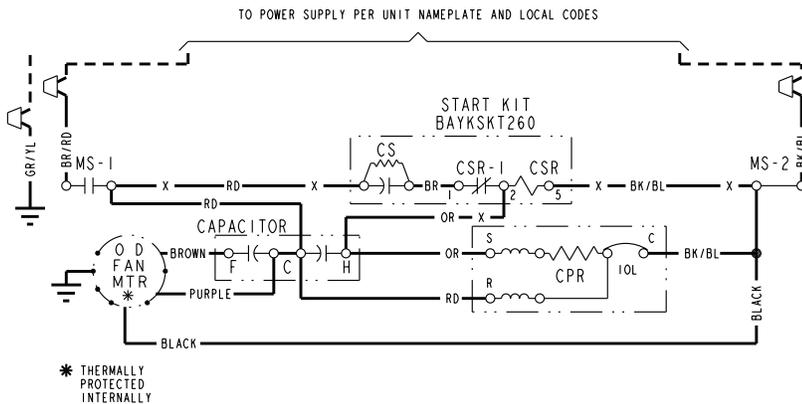
FOR CANADIAN INSTALLATIONS  
POUR INSTALLATIONS CANADIENNES

**CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V-TO-GROUND.  
ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE.**

# Electrical Data

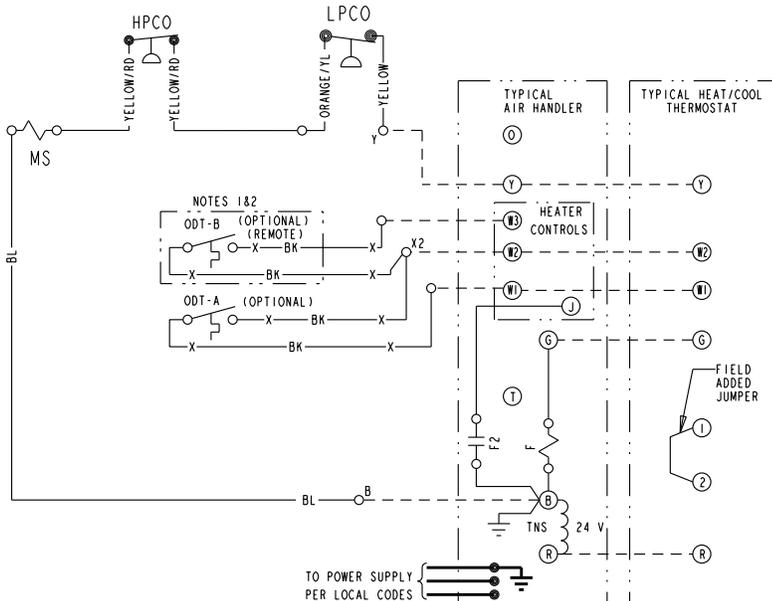
## Schematic Diagrams

### 4TTR5036



|      |                             |      |                            |
|------|-----------------------------|------|----------------------------|
| CA   | COOLING ANTICIPATOR         | LPCO | LOW PRESSURE CUTOUT SW.    |
| CBS  | COIL BOTTOM SENSOR          | MS   | COMPRESSOR MOTOR CONTACTOR |
| CF   | FAN CAPACITOR               | ODA  | OUTDOOR ANTICIPATOR        |
| CN   | WIRE CONNECTOR              | OFT  | OUTDOOR FAN THERMOSTAT     |
| CPR  | COMPRESSOR RUN CAPACITOR    | ODS  | OUTDOOR TEMPERATURE SENSOR |
| CR   | RUN CAPACITOR               | ODT  | OUTDOOR THERMOSTAT         |
| CS   | STARTING CAPACITOR          | RHS  | RESISTANCE HEAT SWITCH     |
| CSR  | CAPACITOR SWITCHING RELAY   | SC   | SWITCHOVER VALVE SOLENOID  |
| DFC  | DEFROST CONTROL             | SM   | SYSTEM "ON-OFF" SWITCH     |
| F    | INDOOR FAN RELAY            | TNS  | TRANSFORMER                |
| HA   | HEATING ANTICIPATOR         | TDL  | DISCHARGE LINE THERMOSTAT  |
| HPCO | HIGH PRESSURE CUTOUT SW.    | TS   | HEATING-COOLING THERMOSTAT |
| IOL  | INTERNAL OVERLOAD PROTECTOR | TSH  | HEATING THERMOSTAT         |
| ACR  | A/C RECTIFIER               | R    | OFT SHUNT RESISTOR         |

|   |  |
|---|--|
| ⚠ WARNING   | ⚠ CAUTION  |
| HAZARDOUS VOLTAGE!  | USE COPPER CONDUCTORS ONLY!  |
| DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.            | UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS. |
| FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH! | FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!                  |



|                 |                             |    |        |    |        |
|-----------------|-----------------------------|----|--------|----|--------|
| COLOR OF WIRE   |                             |    |        |    |        |
| BK/BL           | BLACK WIRE WITH BLUE MARKER |    |        |    |        |
| COLOR OF MARKER |                             |    |        |    |        |
| BK              | BLACK                       | OR | ORANGE | YL | YELLOW |
| BL              | BLUE                        | RD | RED    | GR | GREEN  |
| BR              | BROWN                       | WH | WHITE  | PR | PURPLE |

NOTES:

- IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER. IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
- IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
- LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

FOR CANADIAN INSTALLATIONS  
POUR INSTALLATIONS CANADIENNES

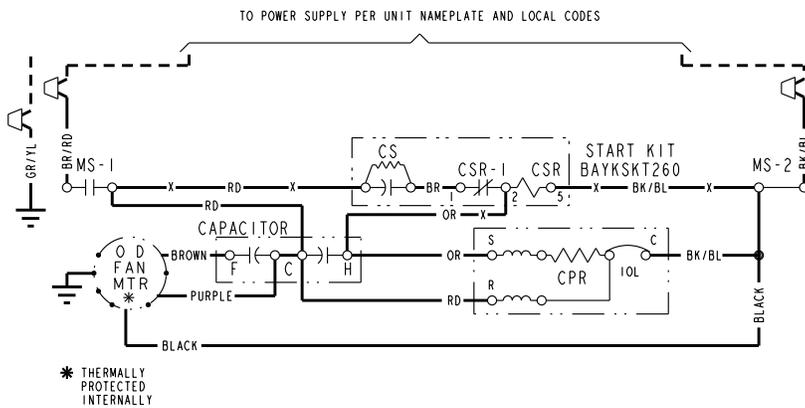
CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V-TO-GROUND.  
ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE.



# Electrical Data

## Schematic Diagrams

### 4TTR5042



|      |                             |      |                            |
|------|-----------------------------|------|----------------------------|
| CA   | COOLING ANTICIPATOR         | LPCO | LOW PRESSURE CUTOFF SW.    |
| CBS  | COIL BOTTOM SENSOR          | MS   | COMPRESSOR MOTOR CONTACTOR |
| CF   | FAN CAPACITOR               | ODA  | OUTDOOR ANTICIPATOR        |
| CN   | WIRE CONNECTOR              | OFT  | OUTDOOR FAN THERMOSTAT     |
| CPR  | COMPRESSOR                  | ODS  | OUTDOOR TEMPERATURE SENSOR |
| CR   | RUN CAPACITOR               | ODT  | OUTDOOR THERMOSTAT         |
| CS   | STARTING CAPACITOR          | RHS  | RESISTANCE HEAT SWITCH     |
| CSR  | CAPACITOR SWITCHING RELAY   | SC   | SWITCHOVER VALVE SOLENOID  |
| DFC  | DEFROST CONTROL             | SM   | SYSTEM "ON-OFF" SWITCH     |
| F    | INDOOR FAN RELAY            | IDL  | DISCHARGE LINE THERMOSTAT  |
| HA   | HEATING ANTICIPATOR         | TNS  | TRANSFORMER                |
| HPCO | HIGH PRESSURE CUTOFF SW.    | TS   | HEATING-COOLING THERMOSTAT |
| IOL  | INTERNAL OVERLOAD PROTECTOR | TSH  | HEATING THERMOSTAT         |
| ACR  | A/C RECTIFIER               | R    | OFT SHUNT RESISTOR         |

|   |  |
|---|--|
| ⚠ <b>WARNING</b>  | ⚠ <b>CAUTION</b>   |
| HAZARDOUS VOLTAGE!<br>DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.<br>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH! | USE COPPER CONDUCTORS ONLY!<br>UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.<br>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT! |

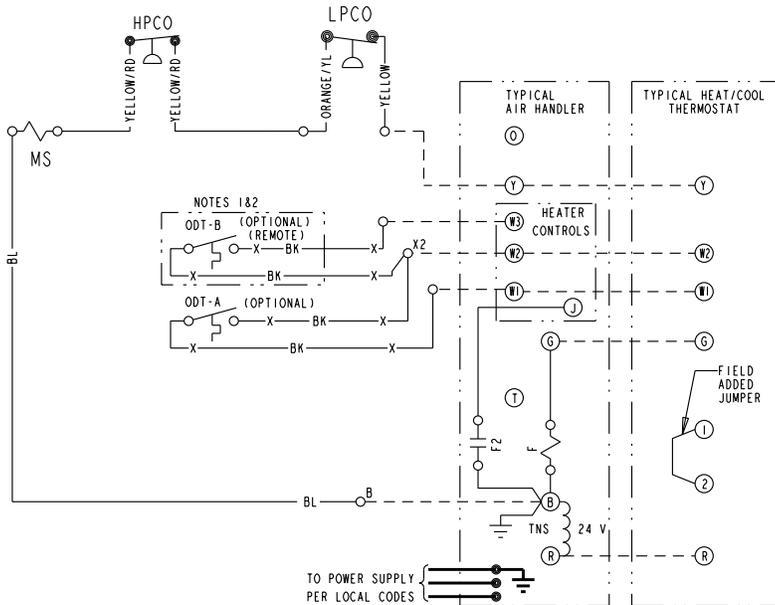
|                 |                             |    |        |    |        |
|-----------------|-----------------------------|----|--------|----|--------|
| COLOR OF WIRE   |                             |    |        |    |        |
| BK/BL           | BLACK WIRE WITH BLUE MARKER |    |        |    |        |
| COLOR OF MARKER |                             |    |        |    |        |
| BK              | BLACK                       | OR | ORANGE | YL | YELLOW |
| BL              | BLUE                        | RD | RED    | GR | GREEN  |
| BR              | BROWN                       | WH | WHITE  | PR | PURPLE |

**NOTES:**

- IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.  
IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
- IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
- LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

**FOR CANADIAN INSTALLATIONS  
POUR INSTALLATIONS CANADIENNES**

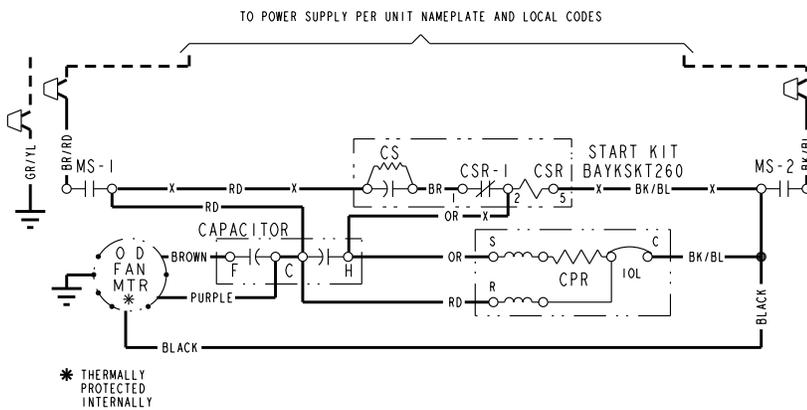
**CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V-TO-GROUND.  
ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE.**



# Electrical Data

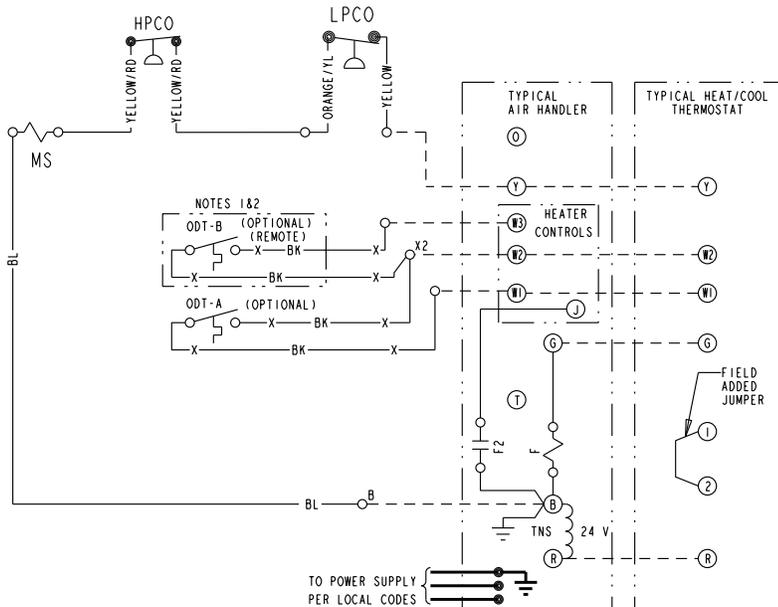
## Schematic Diagrams

### 4TTR5048



|      |                             |      |                            |
|------|-----------------------------|------|----------------------------|
| CA   | COOLING ANTICIPATOR         | LPCO | LOW PRESSURE CUTOFF SW.    |
| CBS  | COIL BOTTOM SENSOR          | MS   | COMPRESSOR MOTOR CONTACTOR |
| CF   | FAN CAPACITOR               | ODA  | OUTDOOR ANTICIPATOR        |
| CN   | WIRE CONNECTOR              | OFT  | OUTDOOR FAN THERMOSTAT     |
| CPR  | COMPRESSOR RUN CAPACITOR    | ODS  | OUTDOOR TEMPERATURE SENSOR |
| CR   | COMPRESSOR RUN CAPACITOR    | ODT  | OUTDOOR THERMOSTAT         |
| CS   | STARTING CAPACITOR          | RHS  | RESISTANCE HEAT SWITCH     |
| CSR  | CAPACITOR SWITCHING RELAY   | SC   | SWITCHOVER VALVE SOLENOID  |
| DFC  | DEFROST CONTROL             | SM   | SYSTEM "ON-OFF" SWITCH     |
| F    | INDOOR FAN RELAY            | TDL  | DISCHARGE LINE THERMOSTAT  |
| HA   | HEATING ANTICIPATOR         | TNS  | TRANSFORMER                |
| HPCO | HIGH PRESSURE CUTOFF SW.    | TS   | HEATING-COOLING THERMOSTAT |
| IOL  | INTERNAL OVERLOAD PROTECTOR | TSH  | HEATING THERMOSTAT         |
| ACR  | A/C RECTIFIER               | R    | OFT SHUNT RESISTOR         |

|   |  |
|---|--|
| <p><b>⚠ WARNING</b><br/>HAZARDOUS VOLTAGE!<br/>DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.<br/>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!</p> | <p><b>⚠ CAUTION</b><br/>USE COPPER CONDUCTORS ONLY!<br/>UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.<br/>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!</p> |
|---|--|



COLOR OF WIRE

BK/BL BLACK WIRE WITH BLUE MARKER

COLOR OF MARKER

|    |       |    |        |    |        |
|----|-------|----|--------|----|--------|
| BK | BLACK | OR | ORANGE | YL | YELLOW |
| BL | BLUE  | RD | RED    | GR | GREEN  |
| BR | BROWN | WH | WHITE  | PR | PURPLE |

NOTES:

- IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER. IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
- IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
- LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

FOR CANADIAN INSTALLATIONS  
POUR INSTALLATIONS CANADIENNES

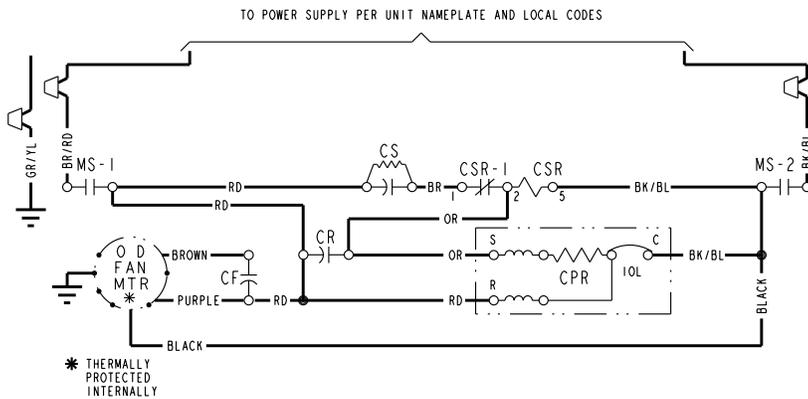
**CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V-TO-GROUND.**  
**ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE.**



# Electrical Data

## Schematic Diagrams

### 4TTR5060



|                                 |                                |
|---------------------------------|--------------------------------|
| CA COOLING ANTICIPATOR          | LPCO LOW PRESSURE CUTOUT SW.   |
| CBS COIL BOTTOM SENSOR          | MS COMPRESSOR MOTOR CONTACTOR  |
| CF FAN CAPACITOR                | ODA OUTDOOR ANTICIPATOR        |
| CN WIRE CONNECTOR               | OFT OUTDOOR FAN THERMOSTAT     |
| CN COMPRESSOR                   | ODS OUTDOOR TEMPERATURE SENSOR |
| CR RUN CAPACITOR                | ODT OUTDOOR THERMOSTAT         |
| CS STARTING CAPACITOR           | RHS RESISTANCE HEAT SWITCH     |
| CSR CAPACITOR SWITCHING RELAY   | SC SWITCHOVER VALVE SOLENOID   |
| DFC DEFROST CONTROL             | SM SYSTEM "ON-OFF" SWITCH      |
| F INDOOR FAN RELAY              | TDL DISCHARGE LINE THERMOSTAT  |
| HA HEATING ANTICIPATOR          | TNS TRANSFORMER                |
| HPCO HIGH PRESSURE CUTOUT SW.   | TS HEATING-COOLING THERMOSTAT  |
| IOL INTERNAL OVERLOAD PROTECTOR | TSH HEATING THERMOSTAT         |
| ACR A/C RECTIFIER               | R OFT SHUNT RESISTOR           |

|   |  |
|---|--|
| <p><b>⚠ WARNING</b><br/>HAZARDOUS VOLTAGE!<br/>DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.<br/>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!</p> | <p><b>⚠ CAUTION</b><br/>USE COPPER CONDUCTORS ONLY!<br/>UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.<br/>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!</p> |
|---|--|

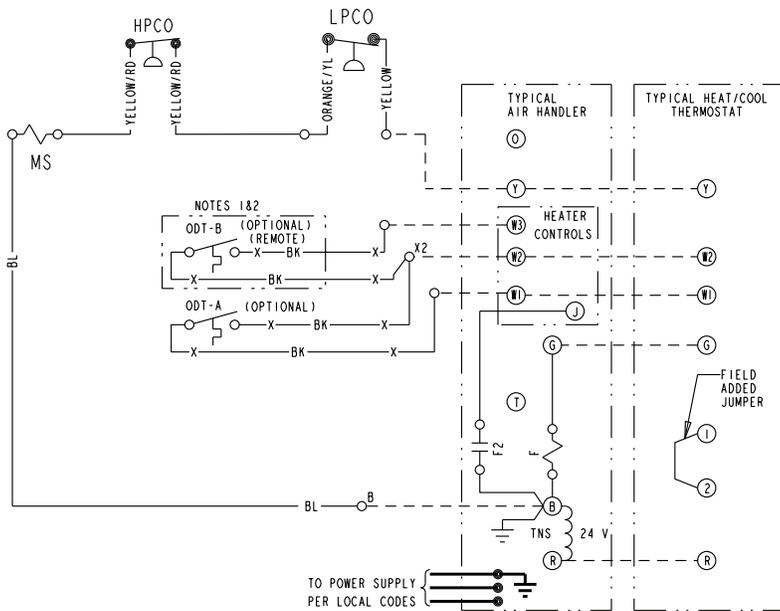
COLOR OF WIRE  
 BK/BL BLACK WIRE WITH BLUE MARKER  
 COLOR OF MARKER  
 BK BLACK OR ORANGE YL YELLOW  
 BL BLUE RD RED GR GREEN  
 BR BROWN WH WHITE PR PURPLE

**NOTES:**

- IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.  
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**FOR CANADIAN INSTALLATIONS  
POUR INSTALLATIONS CANADIENNES**

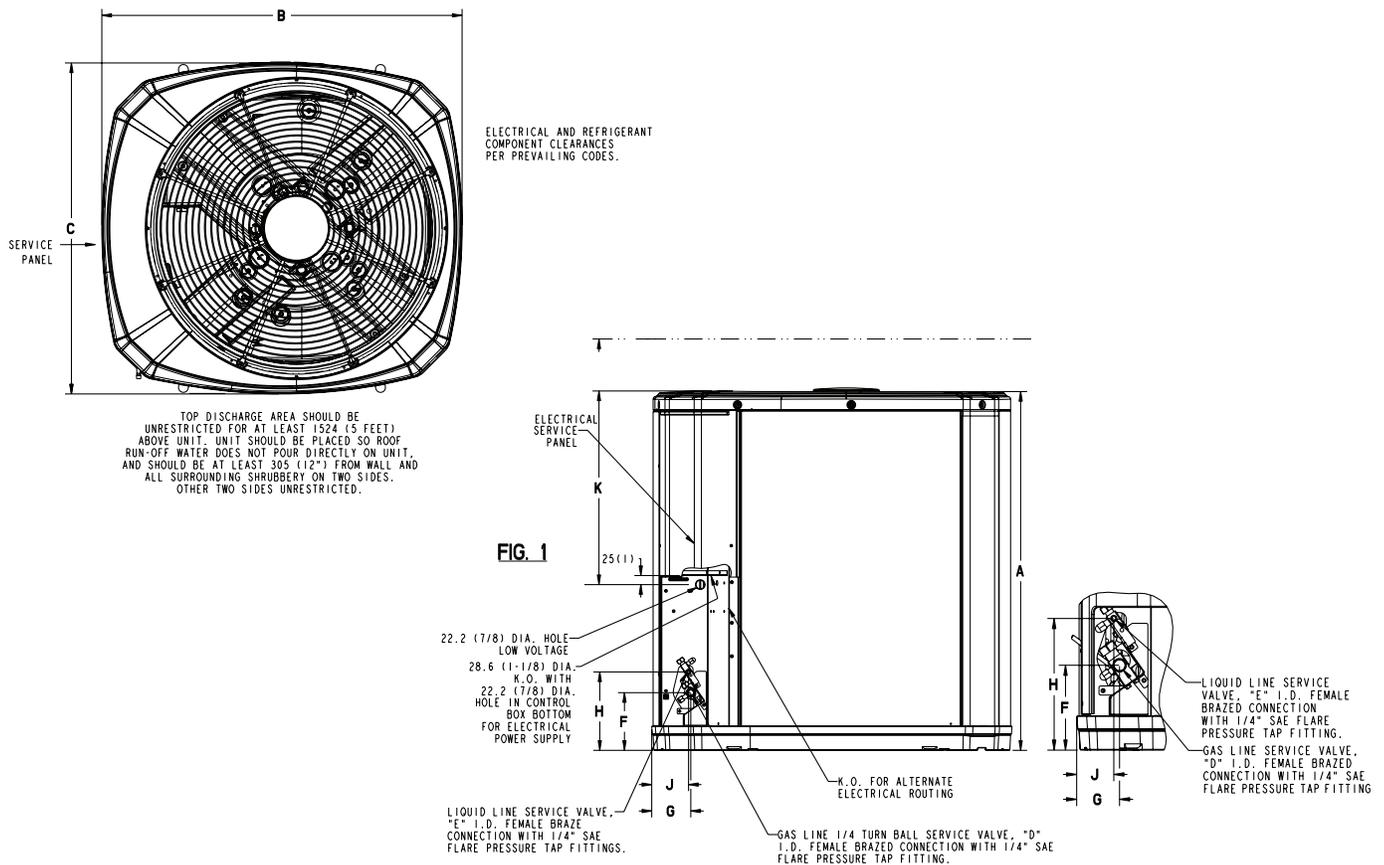
**CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V-TO-GROUND.  
ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE.**



# Dimensions

## 4TTR5 Outline Drawing

Note: All dimensions are in MM (Inches).



| MODELS    | BASE | A             | B            | C            | D   | E   | F       | G          | H           | J          | K        |
|-----------|------|---------------|--------------|--------------|-----|-----|---------|------------|-------------|------------|----------|
| 4TTR5018E | 3    | 730 (28-3/4)  | 829 (32-5/8) | 756 (29-3/4) | 5/8 | 3/8 | 127 (5) | 76 (3)     | 197 (7-3/4) | 57 (2-1/4) | 508 (20) |
| 4TTR5024E | 3    | 730 (28-3/4)  | 829 (32-5/8) | 756 (29-3/4) | 3/4 | 3/8 | 127 (5) | 76 (3)     | 197 (7-3/4) | 57 (2-1/4) | 508 (20) |
| 4TTR5030E | 4    | 841 (33-1/8)  | 946 (37-1/4) | 870 (34-1/4) | 3/4 | 3/8 | 152 (6) | 98 (3-7/8) | 219 (8-5/8) | 86 (3-3/8) | 508 (20) |
| 4TTR5036E | 4    | 943 (37-1/8)  | 946 (37-1/4) | 870 (34-1/4) | 3/4 | 3/8 | 152 (6) | 98 (3-7/8) | 219 (8-5/8) | 86 (3-3/8) | 508 (20) |
| 4TTR5042E | 4    | 1045 (41 1/8) | 946 (37-1/4) | 870 (34-1/4) | 7/8 | 3/8 | 152 (6) | 98 (3-7/8) | 219 (8-5/8) | 86 (3-3/8) | 508 (20) |
| 4TTR5048E | 4    | 1147 (45 1/8) | 946 (37-1/4) | 870 (34-1/4) | 7/8 | 3/8 | 152 (6) | 98 (3-7/8) | 219 (8-5/8) | 86 (3-3/8) | 508 (20) |
| 4TTR5060E | 4    | 1147 (45 1/8) | 946 (37-1/4) | 870 (34-1/4) | 7/8 | 3/8 | 152 (6) | 98 (3-7/8) | 219 (8-5/8) | 86 (3-3/8) | 508 (20) |

From Dwg. D156010

# Mechanical Specification Options

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## General

The 4TTR5 is fully charged from the factory for up to 15 feet of piping. This unit is designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities are matched with a wide selection of air handlers and furnace coils that are A.R.I. certified. The unit is certified to UL 1995. Exterior is designed for outdoor application.

## Casing

Unit casing is constructed of heavy gauge, G90 galvanized steel and painted with a weather-resistant powder paint on all louvers, panels, prepaint on all other panels. Corrosion and weather-proof CMBP-G30 DuraTuff™ base.

## Refrigerant Controls

Refrigeration system controls include condenser fan and compressor contactor. High and low pressure controls are inherent to the compressor. A factory installed liquid line drier is standard.

## Compressor

The Climatuff® compressor features internal over temperature and pressure protection and total dipped hermetic motor. Other features include: roto lock suction and discharge refrigerant connections, centrifugal oil pump and low vibration and noise.

## Condenser Coil

The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.

## Low Ambient Cooling

As manufactured, this unit has a cooling capability to 55°F. The addition of an evaporator defrost control with TXV permits low ambient cooling to 30° F.

## Accessories

Thermostats — Cooling only and heat/cooling (manual and automatic change-over). Sub-base to match thermostat and locking thermostat cover.



ARI Standard  
210/240 UAC



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12/09

Trane has a policy of continuous product and product data improvement and it reserves the right to change design and specifications without notice.