Split System
Cooling
Product Data

XR16
4TTR6

2, 3, 4 & 5 Tons
Features and Benefits

- **CLIMATUFF™** 2-stage scroll compressor
- Efficiency up to **18.0 SEER**
- All Aluminum **SPINE FIN™** coil
- **DURATUFF™** weather proof and rust proof base
- **COMFORT “R”™** mode approved for better comfort indoors
- **QUICK-SESS™** cabinet, service access and refrigerant connections with full coil protection
- **WEATHERGUARD™** fasteners
- Glossy corrosion resistant finish tarpaulin gray cabinet with anthracite gray top
- Internal compressor high/low pressure & temperature protection
- Liquid line filter/drier
- Low sound with advanced PSC fan motor
- Service valve cover
- **R-410A** refrigerant
- From 70 to 100% capacity modulation
- **100% run test** in the factory
- Low ambient cooling to **55°** as shipped
- **Extended warranties available**
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</tr>
</tbody>
</table>
## General Data

### Product Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>4TTR6024A1000B</th>
<th>4TTR6036A1000B</th>
<th>4TTR6048A1000A</th>
<th>4TTR6060A1000A</th>
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<tbody>
<tr>
<td>Electrical Data V/Ph/Hz</td>
<td>208/230/1/60</td>
<td>208/230/1/60</td>
<td>208/230/1/60</td>
<td>208/230/1/60</td>
</tr>
<tr>
<td>Min Cir Ampacity</td>
<td>18</td>
<td>24</td>
<td>28</td>
<td>41</td>
</tr>
<tr>
<td>Max Fuse Size (Amps)</td>
<td>20</td>
<td>35</td>
<td>45</td>
<td>60</td>
</tr>
<tr>
<td>Compressor</td>
<td>CLIMATUFF® - SCROLL</td>
<td>CLIMATUFF® - SCROLL</td>
<td>CLIMATUFF® - SCROLL</td>
<td>CLIMATUFF® - SCROLL</td>
</tr>
<tr>
<td>No. Compress. – No. Stages</td>
<td>1-2</td>
<td>1-2</td>
<td>1-2</td>
<td>1-2</td>
</tr>
<tr>
<td>RL AMPS - LR AMPS</td>
<td>13.0 - 52</td>
<td>17.0 - 82</td>
<td>21.2 - 104</td>
<td>32.1 - 152.9</td>
</tr>
<tr>
<td>Outdoor Fan FL Amps</td>
<td>0.74</td>
<td>0.74</td>
<td>1.00</td>
<td>1.30</td>
</tr>
<tr>
<td>Fan HP</td>
<td>1/8</td>
<td>1/8</td>
<td>1/5</td>
<td>1/4</td>
</tr>
<tr>
<td>Fan Dia (inches)</td>
<td>27.6</td>
<td>27.6</td>
<td>27.6</td>
<td>27.6</td>
</tr>
<tr>
<td>Coil</td>
<td>Spine Fin™</td>
<td>Spine Fin™</td>
<td>Spine Fin™</td>
<td>Spine Fin™</td>
</tr>
<tr>
<td>Line Size - (in.) O.D. Gas</td>
<td>5/8</td>
<td>3/4</td>
<td>7/8</td>
<td>1-1/8</td>
</tr>
<tr>
<td>Dimensions H x W x D (Crated)</td>
<td>46.4 x 35.1 x 38.7</td>
<td>51.0 x 35.1 x 38.7</td>
<td>51.0 x 35.1 x 38.7</td>
<td>51.0 x 35.1 x 38.7</td>
</tr>
<tr>
<td>Weight - Shipping</td>
<td>276</td>
<td>283</td>
<td>308</td>
<td>312</td>
</tr>
<tr>
<td>Weight - Net</td>
<td>240</td>
<td>245</td>
<td>271</td>
<td>275</td>
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<tr>
<td>Start Components</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>Sound Enclosure</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>Compressor Sump Heat</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
</tr>
</tbody>
</table>

### Optional Accessories:

- **Rubber Isolator Kit**: BAYISLT101
- **Snow Leg - Base & Cap 4” High**: BAYLEGSS02
- **Hard Start Kit Scroll**: BAYKSKT260
- **Crankcase Heater Kit**: BAYCCHT301
- **Extreme Condition Mounting Kit**: BAYECMT004
- **Vertical Discharge Air Kit Base 4**: BAYVDTA003
- **Auto Charge Solenoid Kit**: BAYCAKT001
- **Refrigerant Lineset**: TAYREFLN9* TAYREFLN7* TAYREFLN3* TAYREFLN4*

---

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

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SOUND POWER LEVEL [dB(A)]</th>
<th>A-WEIGHTED FULL OCTAVE SOUND POWER LEVEL dB - [dB(A)]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>63</td>
<td>125</td>
</tr>
<tr>
<td>4TTR6024A</td>
<td>72</td>
<td>43.7</td>
</tr>
<tr>
<td>4TTR6036A</td>
<td>72</td>
<td>38</td>
</tr>
<tr>
<td>4TTR6048A</td>
<td>73</td>
<td>44.2</td>
</tr>
<tr>
<td>4TTR6060A</td>
<td>74</td>
<td>42.2</td>
</tr>
</tbody>
</table>

Note: Rated in accordance with AHRI Standard 270-2008.
Accessory Description and Usage

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

Extreme Conditions Mounting 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 rooftops, etc.

Low Ambient Cooling — For low ambient cooling below 55° see Application Guide APP-APG013-EN.

AHRI Standard Capacity Rating Conditions

AHRI STANDARD 210/240 RATING CONDITIONS —
(A) Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.
(B) High Temperature Heating 47°F DB, 43°F WB air entering outdoor coil, 70°F DB air entering indoor coil.
(C) Low Temperature Heating 17°F DB, 15°F WB air entering outdoor coil, 70°F DB air entering indoor coil.
(D) Rated indoor airflow for heating is the same as for cooling.

AHRI 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.
# Model Nomenclature

## Outdoor Units

<table>
<thead>
<tr>
<th>Refrigerant Type</th>
<th>TRANE</th>
</tr>
</thead>
</table>
| Product Type | W = Split Heat Pump  
  T = Split Cooling |
| Product Family | Z = Leadership - Two Stage  
  X = Leadership  
  R = Replacement/Retail  
  M or B = Basic  
  A = Light Commercial |
| Family SEER | 3 = 13  
  4 = 14  
  5 = 15  
  6 = 16  
  7 = 17  
  8 = 18  
  9 = 19 |
| Split System Connections 1-6 Tons | 0 = Brazed |
| Nominal Capacity in 000s of BTUs | |
| Major Design Modifications | |
| Power Supply | 1 = 208-230/1/60 or 208-230/1/60  
  3 = 200-230/3/60  
  4 = 460/3/60 |
| Secondary Function | |
| Minor Design Modifications | |
| Unit Parts Identifier | |

## Gas Furnaces

| Furnace Configuration | TU = Upflow/Horizontal  
  TD = Downflow/Horizontal |
|----------------------|------------------------|
| Type | E = 80% Induced Draft Standard  
  D = 80% Induced Draft Premium  
  C = 90% Condensation Standard  
  X = 90% Condensation Premium  
  H = 95% Condensation Premium |
| Number of Heating Stages | 1 = Single Stage  
  2 = Two Stage  
  M = Modulating |
| Cabinet Width | A = 14.5" Cabinet Width  
  B = 17.5" Cabinet Width  
  C = 21.5" Cabinet Width  
  D = 24.5" Cabinet Width |
| Heating Input in 1000's (BTUH) | 080 = 80,000 BTUH |
| Major Design Change | |
| Efficiency | C = Standard  
  S = Hi Efficiency (derived from 10 SEER products) |
| Refrigerant Type | 4 = R-410A |

## Heat Pump/ Cooling Coils

<table>
<thead>
<tr>
<th>Refrigerant Type</th>
<th>4 = R-410A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Handler/ Cooling Coils</td>
<td></td>
</tr>
</tbody>
</table>
| Brand | T = Better  
  G = Good |
| Convertability | M = Multi-poise 4-way  
  F = Upflow Front Return, 3-way  
  T = 3-way |
| Product Type | A = Air Handler |
| Convertibility | |
| Power Supply | 1 = 200-230/1/60  
  3 = 200-230/3/60  
  4 = 460/3/60 |
| Secondary Function | |
| Minor Design Changes | |
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## Air Handler

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| Power Supply | 1 = 200-230/1/60  
  3 = 200-230/3/60  
  4 = 460/3/60 |
| Secondary Function | |
| Minor Design Changes | |
| Unit Parts Identifier | |

## Gas Furnaces

| Furnace Configuration | TU = Upflow/Horizontal  
  TD = Downflow/Horizontal |
|----------------------|------------------------|
| Type | E = 80% Induced Draft Standard  
  D = 80% Induced Draft Premium  
  C = 90% Condensation Standard  
  X = 90% Condensation Premium  
  H = 95% Condensation Premium |
| Number of Heating Stages | 1 = Single Stage  
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  M = Modulating |
| Cabinet Width | A = 14.5" Cabinet Width  
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  C = 90% Condensation Standard  
  X = 90% Condensation Premium  
  H = 95% Condensation Premium |
| Number of Heating Stages | 1 = Single Stage  
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  C = 21.5" Cabinet Width  
  D = 24.5" Cabinet Width |
| Heating Input in 1000's (BTUH) | 080 = 80,000 BTUH |
| Major Design Change | |
| Efficiency | C = Standard  
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## Heat Pump/ Cooling Coils

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<td>Air Handler/ Cooling Coils</td>
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| Convertability | M = Multi-poise 4-way  
  F = Upflow Front Return, 3-way  
  T = 3-way |
| Product Type | A = Air Handler |
| Convertibility | |
| Power Supply | 1 = 200-230/1/60  
  3 = 200-230/3/60  
  4 = 460/3/60 |
| Secondary Function | |
| Minor Design Changes | |
| Unit Parts Identifier | |
Electrical Data

Schematic Diagrams

(SEEN LEGEND)

4TTR6048A, 060A

NOTES:
1. BE SURE POWER SUPPLY ACCORD WITH EQUIPMENT NAMEPLATE.
2. FOWM WIRING AND GROUNDING OF EQUIPMENT MOST COMPLY WITH LOCAL CODES.
3. LOW VOLTAGE WIRING TO BE NO. 18 AND MINIMUM CONDUCTOR.
4. IF OUTDOOR THERMOSTAT (8071) IS NOT USED, CONNECT #1 TO W1.
5. WITH Y1 ENERGIZED, INDOOR FAN IS 1ST STAGE AIRFLOW.
6. WITH Y2 & Y3 ENERGIZED, INDOOR FAN IS 2ND STAGE AIRFLOW.
7. SEE 4-W PANEL INSTALLER GUIDE FOR OFF SWITCH CONFIGURATIONS.

FOR CANADIAN INSTALLATIONS POUR INSTALLATIONS CANADIENNES

CAUTION NOT SUITABLE FOR USE ON SYSTEM EXCEEDING 150V TO GROUND.

ACENSION NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE.

Printed from D156975P03
Electrical Data

Schematic Diagrams

**LEGEND**

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

- **Schematic Symbols**
  - 24 V. LINE V.: FACTORY WIRING
  - ----: FIELD WIRING
  - ---X---: FIELD INSTALLED FACTORY WIRING
  - ----: GROUND
  - •: JUNCTION
  - △: WIRE NUT OR CONNECTOR
  - ▽: COIL
  - →: CAPACITOR
  - ⬤: RELAY CONTACT (N.O.)
  - ⬤: RELAY CONTACT (N.C.)
  - ○: THERMISTOR
  - ○: INTERNAL OVERLOAD PROTECTOR
  - □: PRESSURE ACTUATED SWITCH
  - □: TEMP. ACTUATED SWITCH
  - □: POL. PLUG FEMALE HOUSING (MALE TERM.)
  - □: POL. PLUG MALE HOUSING (FEMALE TERM.)
  - △△: RESISTOR OR HEATING ELEMENT
  - ○: MOTOR WINDING
  - ○: TERMINAL

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

22-1864-03
Dimensions

4TTR6 Outline Drawing

Note: All dimensions are in MM (Inches).

<table>
<thead>
<tr>
<th>MODELS</th>
<th>BASE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>4TTR6024A</td>
<td>4</td>
<td>1045 (41 1/8)</td>
<td>946 (37-1/4)</td>
<td>870 (34-1/4)</td>
<td>5/8</td>
<td>3/8</td>
<td>152 (6)</td>
<td>98 (3-7/8)</td>
<td>219 (8-5/8)</td>
<td>86 (3-3/8)</td>
<td>711 (28)</td>
</tr>
<tr>
<td>4TTR6036A</td>
<td>4</td>
<td>1147 (45 1/8)</td>
<td>946 (37-1/4)</td>
<td>870 (34-1/4)</td>
<td>3/4</td>
<td>3/8</td>
<td>152 (6)</td>
<td>98 (3-7/8)</td>
<td>219 (8-5/8)</td>
<td>86 (3-3/8)</td>
<td>813 (32)</td>
</tr>
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<td>4TTR6048A</td>
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<td>1147 (45 1/8)</td>
<td>946 (37-1/4)</td>
<td>870 (34-1/4)</td>
<td>7/8</td>
<td>3/8</td>
<td>152 (6)</td>
<td>98 (3-7/8)</td>
<td>219 (8-5/8)</td>
<td>86 (3-3/8)</td>
<td>813 (32)</td>
</tr>
<tr>
<td>4TTR6060A</td>
<td>4</td>
<td>1147 (45 1/8)</td>
<td>946 (37-1/4)</td>
<td>870 (34-1/4)</td>
<td>1-1/8</td>
<td>3/8</td>
<td>152 (6)</td>
<td>98 (3-7/8)</td>
<td>219 (8-5/8)</td>
<td>86 (3-3/8)</td>
<td>813 (32)</td>
</tr>
</tbody>
</table>

From Dwg. D152635
Mechanical Specifications

General
The 4TTR6 is fully charged from the factory for matched indoor section and 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 AHRI certified. The unit shall be certified to UL 1995. Exterior is designed for outdoor application.

Casing
Unit casing is constructed of heavy gauge, G60 galvanized steel and painted with a weather-resistant powder paint on all louvers and panels. Corrosion and weatherproof CMBP-G30 DuraTuff™ base.

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

Compressor
The Climatuff® 2-stage compressor features internal over temperature and pressure protection and hermetic motor. Other features include: centrifugal oil pump and modular plugs for electrical connections.

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. For low ambient cooling below 55° see Application Guide.
Trane has a policy of continuous product and product data improvement and it reserves the right to change design and specifications without notice.