Split System Cooling Product Data

XL18i
4TTX8024, 036, 048 & 060

2, 3, 4 & 5 Tons
Features and Benefits

- **CLIMATUFF™** 2-stage scroll compressor
- Efficiency up to **18.0 SEER**
- All Aluminum **SPINE FIN™** coil
- **WEATHERGUARD™ II** top shields unit
- **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 variable speed 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
Contents

Features and Benefits 2

General Data
   Product Specifications 4
   A-weighted Sound Power Level [dB(A)] 4
   Accessory Description and Usage 5
   AHRI Standard Capacity Rating Conditions 5

Model Nomenclature 6

Electrical Data 7

Dimensions 8

Mechanical Specifications 9
## Product Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>4TTX8024A1000A</th>
<th>4TTX8036A1000A</th>
<th>4TTX8048A1000A</th>
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<tr>
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<td>Min Cir Ampacity</td>
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<td>24</td>
<td>28</td>
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<td>35</td>
<td>45</td>
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<td>RL AMPS - LR AMPS</td>
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### General Data

#### Sound Power Level

<table>
<thead>
<tr>
<th>Model</th>
<th>A-Weighted Sound Power Level [dB(A)]</th>
<th>Full Octave Sound Power [dB]</th>
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<tr>
<td></td>
<td>63 Hz</td>
<td>125 Hz</td>
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<td>4TTX8024A1</td>
<td>72</td>
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<td>4TTX8036A1</td>
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<td>64</td>
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<td>4TTX8048A1</td>
<td>73</td>
<td>70</td>
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<td>4TTX8060A1</td>
<td>74</td>
<td>68</td>
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Note: Rated in accordance with AHRI Standard 270-2008
General Data

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.
### Outdoor Units

**Refrigerant Type**
- 4 = R-410A

**TRANE**

**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
- 0 = 20

**Split System Connections 1-6 Tons**
- 0 = Brazed

**Nominal Capacity in 000's 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

**Furnace Configuration**
- TU = Upflow/Horizontal
- TD = Downflow/Horizontal

**Type**
- B = 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
- M = Modulating

**Cabinet Width**
- A = 14.5" Cabinet Width
- B = 17.5" Cabinet Width
- C = 21.0" Cabinet Width
- D = 24.5" Cabinet Width

**Heating Input in 1000's (BTUH)**
- 080 = 80,000 BTUH

**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 Communicating System Control and Integrated Electronic Filter

**Air Capacity for Cooling**
- Standard PSC Variable Speed High Efficiency

**Draft Inducer Speeds**
- 1 = Single Speed
- 2 = Two Speed
- V = Variable Speed

**Service Digit - Not Orderable**

### Air Handler

**Brand**
- T = Better
- G = Good

**Product Type**
- A = Air Handler

**Convertibility**
- M = Multipoise 4-way
- F = Uptake Front Return, 3-way

**Product Tier**
- 2 = Good, Entry Level Feature Set
- 4 = Better, Retail Replacement Mid Effy.
- 5 = Better, Entry Level High Effy., Multi-Speed
- 7 = Best, Retail Replacement High Effy., Variable-Speed
- 8 = Best, Retail Ultimate High Effy., Variable-Speed

**Major Design Change**

**No Descriptor**
- 0 = Air Handler / Coil

**Size (Footprint)**
- A = 17.5 x 21.5
- B = 21.0 x 21.5
- C = 23.5 x 21.5

**Cooling Size: Air Handler or Coil**
- 0-9 = AH Coil - 1000 BTU's (18, 24, 30, 36, 42, 48, 60)

**Airflow Configuration**
- A = Upflow Only
- U = Upflow / Downflow
- H = Horizontal Only
- C = Convertible - Upflow, Downflow, Left or Right Airflow

**Service Digit - Not Orderable**

### Heat Pump/ Cooling Coils

**Refrigerant Type**
- 4 = R-410A

**Series**
- T = Premium (Heat Pump or Convertible Coil)
- C = Standard (Cooling Only)

**Circuitry**
- H = Heat Pump
- C = Cooling

**Refrigerant Control**
- 3 = TXV - Non-Bleed

**Minor Design Change**

**Service Digit - Not Orderable**
Electrical Data

Schematic Diagrams

(SEE LEGEND)

4TTX8024A, 036A

ACR A/C RECTIFIER
CF FAN CAPACITOR
CN WIRECONNECTOR
CRY COMPRESSOR
CRX RUN CAPACITOR
CS STARTING CAPACITOR
CSB CAPACITOR SWITCHING RELAY
F INDOOR FAN RELAY
HPFCC HIGH PRESSURE CUTOUT SWITCH
IOL INTERNAL OVERLOAD PROTECTOR
LPCS LOW PRESSURE CUTOUT SWITCH
SW SYSTEM ON-OFF Switch
WS COMPRESSOR MOTOR CONTACTOR
CSA OUTDOOR ANTICIPATOR
CSP OUTDOOR FAN THERMOSTAT
CDX OUTDOOR TEMPERATURE SENSOR
GDX OUTDOOR THERMOSTAT
DCX SWITCH OVER FUSE SOLENOID
TDL DISCHARGE PIPE THERMOSTAT
TDR TIME DELAY RELAYS 30 SEC DELAY ON
TMX TRANSFORMER

COLOR OF WIRE
BK/BL - COLOR OF MARKER
BL BLACK
BK BLUE
RD RED
RD ORANGE
YL/YL ORANGE
YL/BK WHITE OR GREEN
BR BROWN
YL/YL YELLOW OR PURPLE
PK PINK

WARNING
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRICAL POWER
INCLUDING REMOTE DISCONNECTS
BEFORE SERVICING.
Failure to disconnect power
before servicing can cause severe
personal injury or death.

CAUTION
USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED
TO ACCEPT OTHER TYPES OF CONDUCTORS.
Failure to do so may cause damage
to the equipment.

NOTES:
1. BE SURE POWER SUPPLY AGREES WITH EQUIPMENT
   NAMEPLATE.
2. POWER WIRING AND GROUNDING OF EQUIPMENT MUST
   COMPLY WITH LOCAL CODES.
3. LOW VOLTAGE WIRING MUST BE 18 AWG MINIMUM
   CONDUCTOR.
4. IF OUTDOOR THERMOSTAT IS NOT LOCP, CONNECT
   W2 TO W1.
5. WITH Y1 ENERGIZED, INDOOR FAN IS
   1ST STAGE AIRFLOW.
6. WITH Y1 & Y2 ENERGIZED, INDOOR FAN IS
   2ND STAGE AIRFLOW.
7. SEE AIR HANDLER INSTALLER GUIDE FOR DIFF
   SWITCH CONFIGURATIONS.

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

LEGEND

- 24 V. } FACTORY WIRING
- 24 V. } FIELD WIRING
- LINE V. } 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 CONTACTOR
OFA  OUTDOOR FAN THERMOSTAT
ODA  OUTDOOR ANTICIPATOR
ODT  OUTDOOR TEMPERATURE SENSOR
ODT  OUTDOOR THERMOSTAT
RHS  RESISTANCE HEAT SWITCH
SC  SWITCHOVER VALVE SOLENOID
SM  SYSTEM "ON-OFF" SWITCH
TDL  DISCHARGE LINE THERMOSTAT
TNS  TRANSFORMER
TSH  HEATING-COOLING THERMOSTAT
Dimensions

4TTX8 Outline Drawing
Note: All dimensions are in MM (Inches).

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<tr>
<th>MODELS</th>
<th>BASE</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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From Dwg. D152635 Rev. 16
Mechanical Specifications

General
The 4TTX8 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°F see Application Guide APP-APG013-EN.
Trane has a policy of continuous product and product data improvement and it reserves the right to change design and specifications without notice.