Product Data

Split System Cooling

4TTR4018L1000A
4TTR4024L1000B
4TTR4025L1000B
4TTR4030L1000A
4TTR4031L1000A
4TTR4036L1000A
4TTR4037L1000A
4TTR4042L1000A
4TTR4043L1000A
4TTR4048L1000A
4TTR4060L1000B

Note: “Graphics in this document are for representation only. Actual model may differ in appearance.”
# Product Specifications

<table>
<thead>
<tr>
<th>Model No. (a)</th>
<th>4TTR4018L1000A</th>
<th>4TTR4024L1000B/4TTR4025L1000B</th>
<th>4TTR4030L1000A/4TTR4031L1000A</th>
<th>4TTR4036L1000A/4TTR4037L1000A</th>
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<tbody>
<tr>
<td>POWER CONNS. — V/PH/HZ (b)</td>
<td>208/230/1/60</td>
<td>208/230/1/60</td>
<td>208/230/1/60</td>
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<td>COMPRESSOR</td>
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<td>CLIMATUFF®-SCROLL</td>
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<td>9 — 63</td>
<td>10.1 — 52</td>
<td>12.8— 68</td>
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<td>1/8</td>
<td>1/8</td>
<td>1/8</td>
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<tr>
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<td>18.2</td>
<td>18.2</td>
<td>23.0</td>
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<tr>
<td>Coil</td>
<td>SPINE FIN™</td>
<td>SPINE FIN™</td>
<td>SPINE FIN™</td>
<td>SPINE FIN™</td>
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<tr>
<td>Refrigerant R-410A</td>
<td>4 LBS., 2 OZ</td>
<td>4 LBS., 11 OZ / 4 LBS., 2 OZ</td>
<td>4 LBS., 11 OZ</td>
<td>5 LBS., 8 OZ / 5 LBS., 3 OZ</td>
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<td>LINE SIZE — IN. O.D. GAS (c)</td>
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<td>3/4</td>
<td>3/4</td>
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<td>3/8</td>
<td>3/8</td>
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<tr>
<td>Charge Spec. Subcooling</td>
<td>10°F</td>
<td>10°F</td>
<td>10°F</td>
<td>10°F / (8°F on 037)</td>
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<td>Dimensions H x W X D Crated (IN.)</td>
<td>30.1 x 26.7 x 30</td>
<td>30.1 x 26.7 x 30</td>
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<tr>
<td>Weight — Net (lbs.)</td>
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</table>

**Optional Accessories:**

- Anti-short Cycle Timer: TAYASCT501A
- Evaporator Defrost Control: AY28X079
- Rubber Isolator Kit: BAYISLT101
- Extreme Condition Mount Kit: BAYECMT023
- Start Kit: BAYSKT263
- Crankcase Heater Kit: BAYCCHT302
- Seacoast Kit: BAYSEAC001
- Low Ambient Kit: BAYLOAM103
- Refrigerant Lineset (d): TAYREFLN950
- Service Valve Panel Cover: TAYSVPANL0022AA

(a) Certified in accordance with the Unitary Air-conditioner equipment certification program which is based on AHRI standard 210/240.

(b) Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.

(c) Standard line lengths — 60’, Standard lift — 60’ Suction and Liquid line. For Greater lengths and lifts refer to refrigerant piping softwarePub#32–3312–0* (* denotes latest revision).

(d) * = 15, 20, 25, 30, 40 and 50 foot lineset available.
## Product Specifications

<table>
<thead>
<tr>
<th>Model No. (a)</th>
<th>4TR4042L1000A/4TR4043L1000A</th>
<th>4TR4048L1000A</th>
<th>4TR4060L1000B</th>
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<td>POWER CONNS. — V/PH/HZ (b)</td>
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<td>280/230/1/60</td>
<td>280/230/1/60</td>
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<td>COMPRESSOR</td>
<td>CLIMATUFF®-SCROLL</td>
<td>CLIMATUFF®-SCROLL</td>
<td>CLIMATUFF®-SCROLL</td>
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<tr>
<td>RL AMPS — LR AMPS</td>
<td>16.7 — 109</td>
<td>18.5 — 124</td>
<td>20.8 — 127.1</td>
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<tr>
<td>Outdoor Fan FL AMPS</td>
<td>1.05</td>
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<tr>
<td>Fan HP</td>
<td>1/5</td>
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<td>Refrigerant R-410A</td>
<td>5 LBS., 2 OZ / 5 LBS., 5 OZ</td>
<td>5 LBS., 3 OZ</td>
<td>7 LBS., 10 OZ</td>
</tr>
<tr>
<td>LINE SIZE — IN. O.D. GAS (c)</td>
<td>7/8</td>
<td>7/8</td>
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<td>12°F</td>
<td>10°F</td>
<td>10°F</td>
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<tr>
<td>Dimensions H x W X D Crated (IN.)</td>
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<td>Weight — Net (lbs.)</td>
<td>184</td>
<td>189</td>
<td>211</td>
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### Optional Accessories:

- Anti-short Cycle Timer: TAYASCT501A
- Evaporator Defrost Control: AY28X079
- Rubber Isolator Kit: BAYISLT101
- Extreme Condition Mount Kit: BAYECMT004
- Start Kit: BAYKSKT263
- Crankcase Heater Kit: BAYCCHT301
- Seacoast Kit: BAYSEAC001
- Low Ambient Kit: BAYLOAM103
- Refrigerant Lineset (d): TAYREFLN7*
- Service Valve Panel Cover: TAYSVPANL0044AA

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## 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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<td>63 Hz* 125 Hz 250 Hz 500 Hz 1000 Hz 2000 Hz 4000 Hz 8000 Hz</td>
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<tr>
<td>4TTR4018L1</td>
<td>71 74 71 65 68 67 63 56 50</td>
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<tr>
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<tr>
<td>4TTR4060L1</td>
<td>71 81 72 69 69 66 60 57 54</td>
<td></td>
</tr>
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</table>

Note: Rated in accordance with AHRI Standard 270–2008 *For Reference Only
Accessory Description and Usage

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

Evaporation 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 — Five (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.

AHRI Standard Capacity Rating Conditions

AHRI Standard 210/240 Rating Conditions
1. Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.
2. High Temperature Heating 47°F DB, 43°F WB air entering outdoor coil, 70°F DB air entering indoor coil.
3. Low Temperature Heating 17°F DB air entering indoor coil.
4. 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 operations.) Standard Noise Rating number is at 95°F outdoor air.

Model Nomenclature

Outdoor Units

Refrigerant Type
2 = R-22
4 = R-410A

TRANE
Product Type
W = Split Heat Pump
T = Split Cooling

Product Family
V = Variable Speed
Z = Leadership — Two Stage
X = Leadership
R = Replacement/Retail

Family SEER
3 = 15 6 = 16 0 = 20
4 = 14 8 = 18
5 = 15 9 = 19

Split System Connections 1-6 Tons
0 = Brazed
Nominal Capacity in 000s of BTUs

Major Design Modifications
Power Supply
1 = 200-200/1/60 or 208-230/1/60
3 = 200-230/3/60
4 = 480/3/60

Secondary Function
Minor Design Modifications
Unit Parts Identifier
Schematic Diagrams

Figure 1. 1.5–4.0 Ton Models

TO POWER SUPPLY PER UNIT NAMEPLATE AND LOCAL CODES

CF Fan capacitor
CM Wire connector
CPP Compressor
CN Run capacitor
CS Starting capacitor
CSR Capacitor starting relay
F Indoor fan relay
HPCD High pressure cutout switch
LPDO Low pressure cutout switch
IOL Internal overload protector
SN System on-off switch
MS Compressor overload protector
QDA Outdoor anticipator
OFT Outdoor fan thermostat
OSB Outdoor sensor
ODT Outdoor thermostat
SC Switch over balance solenoid
TDL Discharge line thermostat
TNG Transformer

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.

COLOR OF WIRE
BR Black
PB Red or Orange
BL Blue
WH White
GR Green
BR Brown
YL Yellow
PP Purple
PE Lime
LTBL Light Blue

COLOR OF MARKER
BR Black
PB Red or Orange
BL Blue
WH White
GR Green
BR Brown
YL Yellow
PP Purple
PE Lime
LTBL Light Blue

NOTES:
1. 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.
2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
3. 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.

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Figure 2. 5.0 Ton Models

TO POWER SUPPLY PER UNIT NAMEPLATE AND LOCAL CODES

LEGEND

- CF: Fan Capacitor
- CN: Wire Connector
- CPR: Compressor
- CR: Run Capacitor
- CS: Starting Capacitor
- CSR: Capacitor Switching Relay
- ODT: Outdoor Thermostat
- HPD: High Pressure Cutout Switch
- LPD: Low Pressure Cutout Switch
- NS: Compressor Motor Contactor
- TNS: Transformer
- IOL: Internal Overload Protector

FOR CANADIAN INSTALLATIONS

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

PRINTED FROM 2160439P01 REVA
Figure 3. 5.0 Ton Models

NOTES:
1. If ODT-5 is not used, add jumper between N3 & V3 at AH2 handle. If used, ODT-5 must be mounted remote of control box in an approved weatherproof enclosure.
2. If ODT-4 is not used, add jumper between N1 & V2 at AH2 handle.
3. Low voltage 120/208 V3 field wiring must be 18 AWG minimum.
4. Use copper connectors only.

LEGEND
- 24 V FACTORY WIRING
- 120 V SYSTEM
- 120 V FIELD WIRING
- 240 V FIELD INSTALLED
- 120 V FACTORY WIRING
- MAGNETIC COIL
- JUNCTION
- CAPACITOR
- BLUE BUS BAR CONNECTION
- TERMINAL
- TRANSFORMER

SEE SERVICE FACTS FOR OPTIONAL START KIT ACCESSORY
Outline Drawing

<table>
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<tr>
<th>Model</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>
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<td>946</td>
<td>(37–1/4)</td>
<td>870</td>
<td>(34–1/4)</td>
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<td>3/8</td>
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<td>3/8</td>
<td>143</td>
<td>(5–5/8)</td>
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Mechanical Specification Options

General
The outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit, ten (10) feet of tested connecting line, and the smallest rated indoor evaporative coil match. 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 is certified to UL 1995. Exterior is designed for outdoor application.

Casing
Unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint finish. The corner panels are prepainted. All panels are subjected to our 1,000 hour salt spray test.

Refrigerant Controls
Refrigeration system controls include condenser fan, compressor contactor and low and high pressure switches. A factory supplied, field installed liquid line drier is standard.

Compressor
The compressor features internal over temperature and pressure protection. Other features include: 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 system has a cooling capacity to 55°F. The addition of an evaporator defrost control permits operation to 40°F. The addition of an evaporator defrost control with TXV permits low ambient cooling to 30°F.
The addition of the BAYLOAM107A low ambient kit permits ambient cooling to 20°F.

Thermostats—Cooling only and heat/cooling (manual and automatic change over). Sub-base to match thermostat and locking thermostat cover.
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22-1904-1L-EN 12 Oct 2019
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