Product Data

Variable Speed
ComfortLink™ II
Air Conditioners

4TTV0024A1000A
4TTV0036B1000A
4TTV0048A1000A
4TTV0060A1000A
4TTV0061A1000A

Note: “Graphics in this document are for representation only. Actual model may differ in appearance.”
Mechanical Specification Options

General
The Outdoor Units are 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 from 55° F to 120° F in cooling and from —10° F to 66° F in heating. Only AHRI approved indoor matches are approved for use with these models.

ComfortLink™ II Air Conditioners
This outdoor unit contains the ComfortLink™ II Air Conditioners digital communication with 2 wire connection to outdoor and Plug-n-Play set up.

Casing
Unit casing is constructed of heavy gauge. G60 galvanized steel and painted with a weather-resistant powder paint on all louvered panels and prepaint on all other panels. Corrosion and weatherproof CMBP-G30 DuraTuff™ base.
WeatherGuard™ II Top Shields Unit.

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

Compressor
Inverter driven scroll compressor with 25 to 100% output capacity on heat pumps and 30 to 100% output capacity on air conditioners. Noise enclosure minimizes sound levels and built in compressor protection protects compressor will reduce operating speed and current draw to maintain operation while protecting the compressor.

Condenser Coil
The Spine Fin™ outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels.
SeaCoast Shield.

Low Ambient Cooling
As manufactured, this system has built in freeze protection that will allow cooling operation below 55°F but will reduce capacity or shut down completely to prevent operation under adverse conditions.

Comfort Control
The 950/850 Control is required and provides Plug-n-Play setup and 3 wire connection.
# Product Specifications

## Air Conditioner Models

<table>
<thead>
<tr>
<th>OUTDOOR UNIT</th>
<th>4TTV0024A1000A</th>
<th>4TTV0036B1000A</th>
<th>4TTV0048A1000A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>POWER CONNS. — V/PH/Hz</strong>&lt;sup&gt;(c)&lt;/sup&gt;</td>
<td>208/230/1/60</td>
<td>208/230/1/60</td>
<td>208/230/1/60</td>
</tr>
<tr>
<td><strong>MIN. BRCH. CIR. AMPACITY</strong></td>
<td>17.0</td>
<td>18.0</td>
<td>23.0</td>
</tr>
<tr>
<td><strong>BR. CIR. PROT. RTG. — MAX. (AMPS)</strong></td>
<td>25</td>
<td>25</td>
<td>35</td>
</tr>
<tr>
<td><strong>COMPRRESSOR</strong></td>
<td>SCROLL</td>
<td>SCROLL</td>
<td>SCROLL</td>
</tr>
<tr>
<td><strong>NO. USED — NO. SPEEDS</strong></td>
<td>1—VARIABLE</td>
<td>1—VARIABLE</td>
<td>1—VARIABLE</td>
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<tr>
<td><strong>R.L. AMPS</strong>&lt;sup&gt;(d)&lt;/sup&gt;</td>
<td>11.5 — 10.2</td>
<td>12.4 — 10.2</td>
<td>16.0 — 12.0</td>
</tr>
<tr>
<td><strong>FACTORY INSTALLED</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>START COMPONENTS</strong>&lt;sup&gt;(e)&lt;/sup&gt;</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td><strong>INSULATION/SOUND BLANKET</strong></td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td><strong>COMPRESSOR HEAT</strong></td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td><strong>OUTDOOR FAN</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DIA. (IN.) — NO. USED</strong></td>
<td>23 — 1</td>
<td>23 — 1</td>
<td>27.5 — 1</td>
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<tr>
<td><strong>TYPE DRIVE — NO. SPEEDS</strong></td>
<td>DIRECT — VARIABLE</td>
<td>DIRECT — VARIABLE</td>
<td>DIRECT — VARIABLE</td>
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<tr>
<td><strong>CFM @ 0.0 IN. W.G.</strong>&lt;sup&gt;(f)&lt;/sup&gt;</td>
<td>2680</td>
<td>2850</td>
<td>4560</td>
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<tr>
<td><strong>NO. MOTORS — HP</strong></td>
<td>1 — 1/3</td>
<td>1 — 1/3</td>
<td>1 — 1/3</td>
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<tr>
<td><strong>MOTOR SPEED R.P.M.</strong></td>
<td>200 — 1200</td>
<td>200 — 1200</td>
<td>200 — 1200</td>
</tr>
<tr>
<td><strong>VOLTS/PH/Hz</strong>&lt;sup&gt;(h)&lt;/sup&gt;</td>
<td>208/230/1/60</td>
<td>208/230/1/60</td>
<td>208/230/1/60</td>
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<tr>
<td><strong>F.L. AMPS</strong></td>
<td>2.8</td>
<td>2.8</td>
<td>2.8</td>
</tr>
<tr>
<td><strong>OUTDOOR COIL — TYPE</strong></td>
<td>SPINE FIN™</td>
<td>SPINE FIN™</td>
<td>SPINE FIN™</td>
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<tr>
<td><strong>ROWS — F.P.I.</strong></td>
<td>1 — 24</td>
<td>1 — 24</td>
<td>1 — 24</td>
</tr>
<tr>
<td><strong>FACE AREA (SQ. FT.)</strong></td>
<td>19.77</td>
<td>23.75</td>
<td>27.87</td>
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<tr>
<td><strong>TUBE SIZE (IN.)</strong></td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
</tr>
<tr>
<td><strong>REFRIGERANT</strong></td>
<td>R410-A</td>
<td>R410-A</td>
<td>R410-A</td>
</tr>
<tr>
<td><strong>LBS. — R-410A (O.D. UNIT)</strong>&lt;sup&gt;(g)&lt;/sup&gt;</td>
<td>7 lb — 6 oz</td>
<td>9 lb — 6 oz</td>
<td>11 lb — 1 oz</td>
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<td><strong>FACTORY SUPPLIED</strong></td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
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<tr>
<td><strong>LINE SIZE — IN. O.D. GAS</strong>&lt;sup&gt;(h)&lt;/sup&gt;</td>
<td>5/8</td>
<td>3/4</td>
<td>7/8</td>
</tr>
<tr>
<td><strong>LINE SIZE — IN. O.D. LIQ.</strong>&lt;sup&gt;(h)&lt;/sup&gt;</td>
<td>3/8</td>
<td>3/8</td>
<td>3/8</td>
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<tr>
<td><strong>CHARGING SPECIFICATIONS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SUBCOOLING</strong></td>
<td>10°</td>
<td>10°</td>
<td>10°</td>
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<tr>
<td><strong>DIMENSIONS</strong>&lt;sup&gt;(h)&lt;/sup&gt;</td>
<td>H X W X D</td>
<td>H X W X D</td>
<td>H X W X D</td>
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<tr>
<td><strong>CRATED (IN.)</strong></td>
<td>51.6 X 30.1 X 33</td>
<td>53.4 X 35.1 X 38.7</td>
<td>53.4 X 35.1 X 38.7</td>
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<tr>
<td><strong>WEIGHT</strong>&lt;sup&gt;(h)&lt;/sup&gt;</td>
<td></td>
<td></td>
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<tr>
<td><strong>SHIPPING (LBS.)</strong></td>
<td>228</td>
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<td>285</td>
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<tr>
<td><strong>NET (LBS.)</strong></td>
<td>207</td>
<td>239</td>
<td>259</td>
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<sup>(a)</sup> Certified in accordance with the Air-Source Unitary Air-conditioner Equipment certification program, which is based on AHRI standard 210/240.

<sup>(b)</sup> Rated in accordance with AHRI standard 270.

<sup>(c)</sup> Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.

<sup>(d)</sup> This value shown for compressor RLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.

<sup>(e)</sup> NA means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter.

<sup>(f)</sup> Standard Air — Dry Coil — Outdoor

<sup>(g)</sup> This value approximate. For more precise value see unit nameplate.

<sup>(h)</sup> Max. linear length 150 ft.; Max. lift — Suction 50 ft.; Max. lift — Liquid 50 ft. .
### Air Conditioner Models

**OUTDOOR UNIT**

<table>
<thead>
<tr>
<th>Power Cons. — V/PH/HZ</th>
<th>208/230/1/60</th>
<th>208/230/1/60</th>
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<tbody>
<tr>
<td>MIN. BRCH. CIR. AMPACITY</td>
<td>27.0</td>
<td>27.0</td>
</tr>
<tr>
<td>BR. CIR. PROT. RTG. — MAX. (AMPS)</td>
<td>40</td>
<td>40</td>
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**COMPRESSOR**

<table>
<thead>
<tr>
<th>Type</th>
<th>SCROLL</th>
<th>SCROLL</th>
</tr>
</thead>
</table>

**NO. USED — NO. SPEEDS**

| 1–VARIABLE | 1–VARIABLE |

**R.L. AMPS**

| 19.3 — 12.0 | 19.3 — 12.0 |

**FACTORY INSTALLED**

| Start Components | NA | NA |
| Insulation/Sound Blanket | YES | YES |
| Compressor Heat | YES | YES |

**OUTDOOR FAN**

| Dia. (IN.) — No. Used | 27.5 — 1 | 27.5 — 1 |
| Type Drive — No. Speeds | DIRECT — VARIABLE | DIRECT — VARIABLE |
| CFM @ 0.0 IN. W.G. | 4787 | 4780 |
| No. Motors — HP | 1 — 1/3 | 1 — 1/3 |
| Motor Speed R.P.M. | 200 — 1200 | 200 — 1200 |
| Volts/PH/HZ | 208/230/1/60 | 208/230/1/60 |
| L.R. Amps | 2.8 | 2.8 |

**OUTDOOR COIL — TYPE**

| Type | SPINE FIN™ | SPINE FIN™ |
| ROWS — F.P.I. | 1 — 24 | 2 — 24 |
| Face Area (SQ. FT.) | 30.80 | 30.80 |
| Tube Size (IN.) | 3/8 | 3/8 |
| Refrigerant | R410-A | R410-A |
| LBS. — R-410A (O.D. UNIT) | 11 lb — 14 oz | 12 lb — 7 oz |
| Factory Supplied | YES | YES |
| Line Size — In. O.D. Gas | 1-1/8 (h) | 1-1/8 (h) |
| Line Size — In. O.D. LIQ. | 3/8 | 3/8 |

**CHARGING SPECIFICATIONS**

| Subcooling | 10° | 7.5° |
| DIMENSIONS | H X W X D | H X W X D |
| Crated (IN.) | 57.4 X 35.1 X 38.7 | 57.4 X 35.1 X 38.7 |

**WEIGHT**

| Shipping (LBS.) | 299 | 329 |
| Net (LBS.) | 273 | 303 |

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

(b) Rated in accordance with AHRI standard 270.

(c) Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.

(d) This value shown for compressor RLA on the unit nameplate and on the specification sheet is used to compute minimum branch circuit amperage and max. fuse size. The value shown is the branch circuit selection current.

(e) NA means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter.

(f) Standard Air — Dry Coil — Outdoor

(g) This value approximate. For more precise value see unit nameplate.

(h) Max length of refrigerant lines from outdoor to indoor unit MUST NOT exceed 80 feet. The max vertical change MUST NOT exceed 25 feet. See footnote (h) if 7/8” suction line is used.

(i) Max length of refrigerant lines from outdoor to indoor unit MUST NOT exceed 80 feet. The max vertical change MUST NOT exceed 25 feet. See footnote (h) if 7/8” suction line is used.
## Sound Power Level

<table>
<thead>
<tr>
<th>Model</th>
<th>Mode</th>
<th>Speed</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></td>
<td></td>
<td>63 Hz</td>
<td>125 Hz</td>
</tr>
<tr>
<td>4TTV0024A</td>
<td>Cool</td>
<td>Min</td>
<td>57</td>
<td>71.2</td>
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<tr>
<td></td>
<td></td>
<td>Max</td>
<td>66</td>
<td>74.8</td>
</tr>
<tr>
<td>4TTV0036B</td>
<td>Cool</td>
<td>Min</td>
<td>59</td>
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<td></td>
<td></td>
<td>Max</td>
<td>70</td>
<td>79.7</td>
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<td>4TTV0048A</td>
<td>Cool</td>
<td>Min</td>
<td>57</td>
<td>70.7</td>
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<td></td>
<td>Max</td>
<td>74</td>
<td>75.5</td>
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<tr>
<td>4TTV0060A</td>
<td>Cool</td>
<td>Min</td>
<td>62</td>
<td>71.7</td>
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<tr>
<td></td>
<td></td>
<td>Max</td>
<td>75</td>
<td>87.8</td>
</tr>
<tr>
<td>4TTV0061A</td>
<td>Cool</td>
<td>Min</td>
<td>62</td>
<td>71.7</td>
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<td></td>
<td></td>
<td>Max</td>
<td>75</td>
<td>87.8</td>
</tr>
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</table>
Optional Accessories:

<table>
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<tr>
<th>Model</th>
<th>4TTV0024A</th>
<th>4TTV0036B</th>
<th>4TTV0048A</th>
<th>4TTV0060A</th>
<th>4TTV0061A</th>
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<tbody>
<tr>
<td>Rubber Isolator Kit</td>
<td>BAYISLT101</td>
<td>BAYISLT101</td>
<td>BAYISLT101</td>
<td>BAYISLT101</td>
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<tr>
<td>Snow Leg — Base &amp; Cap 4” High</td>
<td>BAYLEG002</td>
<td>BAYLEG002</td>
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<td>Snow Leg — 4” Extension</td>
<td>BAYLEG003</td>
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<td>Extreme Condition Mounting Kit</td>
<td>BAYECMT023</td>
<td>BAYECMT004</td>
<td>BAYECMT004</td>
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<tr>
<td>Vertical Discharge Air Kit</td>
<td>BAYVDTA003</td>
<td>BAYVDTA004</td>
<td>BAYVDTA004</td>
<td>BAYVDTA004</td>
<td>BAYVDTA04</td>
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<td>Refrigerant Lineset</td>
<td>TAYREFLN9(a)</td>
<td>TAYREFLN7(a)</td>
<td>TAYREFLN3(a)</td>
<td>TAYREFLN3(a)</td>
<td>TAYREFLN3(a)</td>
</tr>
</tbody>
</table>

(a) Consult handbook for available length options.

General Data

**AHRI STANDARD 210/240 RATING CONDITIONS**

- Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.
- High Temperature Heating 47°F DB, 43°F WB air entering outdoor coil, 70°F DB entering indoor coil.
- Low Temperature Heating 17°F DB, 15°F WB air entering outdoor coil, 70°F DB air entering indoor coil.
- 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

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

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

- Product Family
  - V = Variable Speed
  - M or B = Basic
  - Z = Leadership – Two Stage
  - X = Leadership
  - R = Replacement/Retail

- Family SEER
  - 3 = 12 SEER
  - 4 = 14 SEER
  - 5 = 16 SEER
  - 6 = 18 SEER

- Split System Connections
  - 0 = Brazed

- Nominal Capacity in 000s of BTU

- Major 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% Condensing Standard
  - X = 90% Condensing Premium
  - H = 95% Condensing Premium

- Number of Heating Stages
  - 1 = Single Stage
  - 2 = Two Stage
  - 3 = Three Stage
  - M = Modulating

- Cabinet Width
  - A = 44.5" Cabinet Width
  - B = 37.5" Cabinet Width
  - C = 21.5" Cabinet Width
  - D = 24.5" Cabinet Width

- Heating Input
  - 080 = 80,000 BTU

- Major Design Change

- Voltage
  - 9 = 115 Volts / 60 Hertz / Natural Gas
  - 115 = 115 Volts / 50 Hertz / Natural Gas
  - 115 = 115 Volts / Natural Gas with Communicating System Control
  - F = 115 Volts / Natural Gas with Integrated Electronic Filter
  - G = 115 Volts / Natural Gas with Communicating System Control and Integrated Electronic Filter

- Air Capacity for Cooling
  - Standard PSC: Variable Speed
  - High Efficiency
  - 24 = 2 Tons
  - 36 = 3 Tons
  - 42 = 3.5 Tons
  - 45 = 4 Tons
  - 54 = 5 Tons
  - 60 = 5.5 Tons
  - 72 = 6 Tons

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

- Minor Design Change

- Service Digit - Not Orderable

---

Air Handler

- Brand
  - T = Trane
  - G = Good (Trane Branded)

- Product Type
  - A = Air Handler

- Convertibility
  - M = Multi-speed 4-way
  - F = Upflow Front Return, 3-way

- Product Tier
  - Z = Good, Entry Level Feature Set
  - 4 = Better, Entry Level Mid Efficiency
  - 5 = Better, Entry Level High Efficiency
  - 7 = Best, Retail Replacement High Efficiency

- B = Best, Retail Ultimate High Efficiency

- Major Design Changes

- No Description
  - 0 = Air Handler / Coil

- Size (Footprint)
  - A = 15.5 x 21.5
  - B = 21.0 x 21.5
  - C = 23.5 x 21.5

- Cooling Style
  - 0 = AH Coil - 1000 BTUs (18, 24, 36, 42, 48, 60)

- Airflow Type & Capacity
  - S = Low Effy PSC; 1-5 - nom. Tonnage (cfm/hour)
  - M = Mid Effy Multi-Speed, 1-5 - nom. Tonnage (cfm/hour)
  - V = High Effy Variable, 1-5 - nom. Tonnage (cfm/hour)

- Power Supply
  - 1 = 208-230/1/60

- System Control
  - S = Standard - 24VDC
  - C = CB 13.8 VDC

- Minor Design Change

- Unit Parts Identifier

---

Heat Pump/Cooling Coils

- Refrigerant Type
  - 4 = R-410A

- Series
  - T = Premium Heat Pump
  - N = Premium (Convertible to HP)
  - C = Standard

- Coil Design
  - X = Direct Expansion Evaporator Coil

- Coil Features
  - D = Cased A Coil
  - A = Uncased A Coil
  - F = Cased Horizontal Flat Coil

- Coil Width
  - H = Cased (Uncased)
  - AC = 14.5" / 13.3"
  - B = 17.5" / 16.3"
  - C = 21.5" / 19.8"
  - D = 24.5" / 23.3"
  - H = 10" / 8"

- Refrigerant Line Coupling
  - 0 = Braided

- Nominal Capacity in 1000's (BTUH)

- Major Design Change

- Efficiency
  - C = Standard
  - S = SEER Efficiency (derived from 10 SEER products)

- Refrigerant Control
  - 3 = TXV - Non-Bleed

- Coil Circuitry
  - I = Heat Pump
  - C = Cooling

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

- Minor Design Change

- Service Digit - Not Orderable
Wiring — D157619P04

[Diagram of wiring connections]

-- Legend --

NOTES:
1. Be sure to check wiring connections in the correct model.
2. Ensure all connections are secure and tight.
3. Follow all local electrical codes and regulations.

[Additional notes and diagrams as per the diagram]
Trane optimizes the performance of homes and buildings around the world. A business of Ingersoll Rand, the leader in creating and sustaining safe, comfortable and energy efficient environments, Trane offers a broad portfolio of advanced controls and HVAC systems, comprehensive building services, and parts. For more information, visit www.Trane.com.

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