Product Data

Split System Heat Pump

4TWR5018H1000A
4TWR5019H1000A
4TWR5024H1000A
4TWR5030H1000A
4TWR5036H1000A
4TWR5042H1000A
4TWR5048H1000A
4TWR5060H1000A

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

<table>
<thead>
<tr>
<th>Model No.</th>
<th>4TWR5018H1000A</th>
<th>4TWR5019H1000A</th>
<th>4TWR5024H1000A</th>
<th>4TWR5030H1000A</th>
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</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>
<td>208/230/1/60</td>
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<tr>
<td><strong>MIN. BRCH. CIR. AMPACITY</strong></td>
<td>12</td>
<td>12</td>
<td>14</td>
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<tr>
<td><strong>BR. CIR. PROT. RTG. — MAX. (AMPS)</strong></td>
<td>20</td>
<td>20</td>
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<tr>
<td><strong>COMRESSOR</strong></td>
<td>CLIMATUFF®-SCROLL</td>
<td>CLIMATUFF®-SCROLL</td>
<td>CLIMATUFF®-SCROLL</td>
<td>CLIMATUFF®-SCROLL</td>
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<tr>
<td><strong>RL AMPS&lt;sup&gt;(d)&lt;/sup&gt; — LR AMPS</strong></td>
<td>9 — 56</td>
<td>9 — 56</td>
<td>10.9 — 62.9</td>
<td>12.8 — 67.8</td>
</tr>
<tr>
<td><strong>Outdoor Fan FL AMPS</strong></td>
<td>0.54</td>
<td>0.64</td>
<td>0.64</td>
<td>0.77</td>
</tr>
<tr>
<td><strong>Fan HP</strong></td>
<td>1/12</td>
<td>1/8</td>
<td>1/8</td>
<td>1/8</td>
</tr>
<tr>
<td><strong>Fan Dia (inches)</strong></td>
<td>19.1</td>
<td>23</td>
<td>23</td>
<td>27.5</td>
</tr>
<tr>
<td><strong>Coil</strong></td>
<td>SPINE FIN™</td>
<td>SPINE FIN™</td>
<td>SPINE FIN™</td>
<td>SPINE FIN™</td>
</tr>
<tr>
<td><strong>Refrigerant R-410A&lt;sup&gt;(e)&lt;/sup&gt;</strong></td>
<td>6 LBS., 1 OZ</td>
<td>6 LBS., 9 OZ</td>
<td>6 LBS., 2 OZ</td>
<td>6 LBS., 13 OZ</td>
</tr>
<tr>
<td><strong>LINE SIZE — IN. O.D. GAS</strong>&lt;sup&gt;(f,g)&lt;/sup&gt;</td>
<td>3/4</td>
<td>3/4</td>
<td>3/4</td>
<td>3/4</td>
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<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>
<td>3/8</td>
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<tr>
<td><strong>Charge Spec. Subcooling</strong></td>
<td>10°F</td>
<td>8°F</td>
<td>8°F</td>
<td>8°F</td>
</tr>
<tr>
<td><strong>Dimensions H x W x D Crated (IN.)</strong></td>
<td>30.1 x 30 x 26.7</td>
<td>38 x 33 x 30.1</td>
<td>38 x 33 x 30.1</td>
<td>34.4 x 38.7 x 35.1</td>
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<tr>
<td><strong>Weight — Shipping (lbs.)</strong></td>
<td>161</td>
<td>196</td>
<td>208</td>
<td>248</td>
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<tr>
<td><strong>Weight — Net (lbs.)</strong></td>
<td>141</td>
<td>162</td>
<td>174</td>
<td>216</td>
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### Optional Accessories:

- **Anti-short Cycle Timer**: TAYASCT501A
- **Evaporator Defrost Control**: NA
- **Rubber Isolator Kit**: BAYISLT101
- **Extreme Condition Mount Kit**: BAYECMT023
- **Start Kit**: BAYSKKT263
- **Crankcase Heater Kit**: BAYCCHT302
- **Seacoast Kit**: BAYSEAC001
- **Low Ambient Kit**: BAYLOAM107
- **Refrigerant Lineset**: TAYREFLN7*
- **Sound Enclosure**: BAYSNDEN003
- **Service Valve Panel Cover**: TAYSVPANL0022AA

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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 N.E.C. Only use 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> This value approximate. For more precise value see unit nameplate.

<sup>(f,g)</sup> Reference the outdoor unit ship-with literature for refrigerant piping length and lift guidelines. Reference the refrigerant piping software pub # 32-3312-xx or refrigerant piping application guide SS-APG006-xx for long line sets or specialty applications (xx denotes latest revision).

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

* = 15, 20, 25, 30, 40 and 50 foot lineset available.
<table>
<thead>
<tr>
<th>Model No.</th>
<th>4TWR5036H1000A</th>
<th>4TWR5042H1000A</th>
<th>4TWR5048H1000A</th>
<th>4TWR5060H1000A</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER CONNS. — 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. BRCH. CIR. AMPACITY</td>
<td>18</td>
<td>22</td>
<td>24</td>
<td>32</td>
</tr>
<tr>
<td>BR. CIR. PROT. RTG. — MAX. (AMPS)</td>
<td>30</td>
<td>35</td>
<td>40</td>
<td>50</td>
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<tr>
<td>COMPRESSOR</td>
<td>CLIMATUFF®- SCROLL</td>
<td>CLIMATUFF®- SCROLL</td>
<td>CLIMATUFF®- SCROLL</td>
<td>CLIMATUFF®- SCROLL</td>
</tr>
<tr>
<td>RL AMPS</td>
<td>14.1 — 72.2</td>
<td>16.7 — 109</td>
<td>18.5 — 124</td>
<td>23.7 — 152.5</td>
</tr>
<tr>
<td>Outdoor Fan FL AMPS</td>
<td>0.64</td>
<td>0.93</td>
<td>0.93</td>
<td>2.80</td>
</tr>
<tr>
<td>Fan HP</td>
<td>1/8</td>
<td>1/5</td>
<td>1/5</td>
<td>1/3</td>
</tr>
<tr>
<td>Fan Dia (inches)</td>
<td>27.5</td>
<td>26.6</td>
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<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>Refrigerant R-410A</td>
<td>8 LBS., 5 OZ</td>
<td>10 LBS., 5 OZ</td>
<td>11 LBS., 7 OZ</td>
<td>11 LBS., 12 OZ</td>
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<tr>
<td>LINE SIZE — IN. O.D. GAS</td>
<td>7/8</td>
<td>7/8</td>
<td>7/8</td>
<td>1-1/8</td>
</tr>
<tr>
<td>Charge Spec. Subcooling</td>
<td>10°F</td>
<td>8°F</td>
<td>8°F</td>
<td>8°F</td>
</tr>
<tr>
<td>Dimensions H x W X D Crated (IN.)</td>
<td>42 x 38.7 x 35.1</td>
<td>51 x 35.1 x 37.8</td>
<td>51 x 35.1 x 38.7</td>
<td>51 x 38.7 x 35.1</td>
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<tr>
<td>Weight — Shipping (lbs.)</td>
<td>246</td>
<td>277</td>
<td>300</td>
<td>328</td>
</tr>
<tr>
<td>Weight — Net (lbs.)</td>
<td>199</td>
<td>227</td>
<td>250</td>
<td>278</td>
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</table>

**Optional Accessories:**
- Anti-short Cycle Timer: TAYASCT501A
- Evaporator Defrost Control: NA
- Rubber Isolator Kit: BAYISLT101
- Extreme Condition Mount Kit: BAYECMT004
- Start Kit: BAYKSKT263
- Crankcase Heater Kit: BAYCCHT302
- Seacoast Kit: BAYSEAC001
- Low Ambient Kit: BAYLOAM107
- Refrigerant Linesset *(i)*: TAYREFLN7*
- Sound Enclosure: BAYSDEN003
- Service Valve Panel Cover: TAYSVPANL0044AA

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(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 N.E.C. Only use HACR circuit breakers or fuses.
(d) 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.
(e) This value approximate. For more precise value see unit nameplate.
(f) Reference the outdoor unit ship-with literature for refrigerant piping length and lift guidelines. Reference the refrigerant piping software pub # 32-3312-xx or refrigerant piping application guide SS-APG006-xx for long line sets or specialty applications (xx denotes latest revision).
(g) Trane outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit and 15 feet of tested connecting lines. If connecting line length exceeds 15 feet, then final refrigerant charge adjustment is necessary. Each additional foot over 15 feet requires 0.6 ozs of refrigerant. See the Installer’ s Guide for full charging instructions.
(h) This value approximate. For more precise value see unit nameplate.
(i) * = 15, 20, 25, 30, 40 and 50 foot lineset available.
## 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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>63 Hz*</td>
<td>125 Hz</td>
</tr>
<tr>
<td>4TWR5018H1</td>
<td>73</td>
<td>72</td>
</tr>
<tr>
<td>4TWR5019H1</td>
<td>74</td>
<td>72</td>
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<td>4TWR5024H1</td>
<td>71</td>
<td>77</td>
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<tr>
<td>4TWR5030H1</td>
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<td>77</td>
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<tr>
<td>4TWR5036H1</td>
<td>70</td>
<td>75</td>
</tr>
<tr>
<td>4TWR5042H1</td>
<td>72</td>
<td>77</td>
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<tr>
<td>4TWR5048H1</td>
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<td>77</td>
</tr>
<tr>
<td>4TWR5060H1</td>
<td>72</td>
<td>77</td>
</tr>
</tbody>
</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
Figure 1. 1.5 — 4.0 Ton Models

LEGEND

1. AC MOTOR
2. FAN MOTOR
3. COAXIAL DUCT
4. ADAPTOR
5. CONDENSER
6. AUXILIARY CONDENSER
7. LOW PRESSURE CUTOFF SWITCH
8. HIGH PRESSURE CUTOFF SWITCH
9. OUTSIDE AIR TEMPERATURE TRANSMITTER
10. Evaporator Temperature Transmitter
11. COMPRESSOR
12. MOTOR
definition
13. UNIT HEATING ELEMENT
14. PRESSURE THERMOSTAT
15. SERVICE PORTS
16. SYSTEM LOW PRESSURE SWITCH
17. SYSTEM HIGH PRESSURE SWITCH
18. SYSTEM LOW PRESSURE SWITCH
19. CONTROL PANEL

NOTES:
1. BE SURE POWER SUPPLY agrees with equipment nameplate.
2. POWER WIRING AND GROUNDING of EXHAUST UNIT comply with local codes.
3. LINE VOLTAGE TO BE 208, 230 VAC.
4. F3-8 MUST BE SET lower than F3-1.
5. IF HPS is not used, air handler between F3 and F2 is an air handler.

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Mechanical Specification Options

General
The Outdoor Units are 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 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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