Product Data

Split System Heat Pump

4TWR4018G1000A
4TWR4024G1000A
4TWR4030G1000A
4TWR4036G1000A
4TWR4042G1000A
4TWR4048G1000A
4TWR4060G1000A

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>4TWR4018G1000A</th>
<th>4TWR4024G1000A</th>
<th>4TWR4030G1000A</th>
<th>4TWR4036G1000A</th>
</tr>
</thead>
<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>
<td>208/230/1/60</td>
</tr>
<tr>
<td>MIN. BRCH. CIR. AMPACITY</td>
<td>12</td>
<td>14</td>
<td>17</td>
<td>19</td>
</tr>
<tr>
<td>BR. CIR. PROT. RTG. — MAX. (AMPS)</td>
<td>20</td>
<td>25</td>
<td>25</td>
<td>30</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>RL AMPS — LR AMPS</td>
<td>9 — 56</td>
<td>10.9 — 62.9</td>
<td>12.8 — 67.8</td>
<td>14.7 — 72.2</td>
</tr>
<tr>
<td>Outdoor Fan FL AMPS</td>
<td>0.54</td>
<td>0.64</td>
<td>0.71</td>
<td>0.64</td>
</tr>
<tr>
<td>Fan HP</td>
<td>1/12</td>
<td>1/8</td>
<td>1/8</td>
<td>1/8</td>
</tr>
<tr>
<td>Fan Dia (inches)</td>
<td>23</td>
<td>23</td>
<td>27.5</td>
<td>27.5</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>5 LBS., 12 OZ</td>
<td>6 LBS., 2 OZ</td>
<td>6 LBS., 13 OZ</td>
<td>6 LBS., 12 OZ</td>
</tr>
<tr>
<td>LINE SIZE — IN. O.D. GAS (c)(d)</td>
<td>3/4</td>
<td>3/4</td>
<td>3/4</td>
<td>3/4</td>
</tr>
<tr>
<td>Charge Spec. Subcooling</td>
<td>10°F</td>
<td>10°F</td>
<td>8°F</td>
<td>10°F</td>
</tr>
<tr>
<td>Dimensions H x W x D Crated (IN.)</td>
<td>30.1 x 30 x 26.7</td>
<td>34 x 33 x 30.1</td>
<td>34.4 x 35.1 x 38.7</td>
<td>34.4 x 38.7 x 35.1</td>
</tr>
<tr>
<td>Weight — Shipping (lbs.)</td>
<td>161</td>
<td>191</td>
<td>248</td>
<td>248</td>
</tr>
<tr>
<td>Weight — Net (lbs.)</td>
<td>141</td>
<td>163</td>
<td>216</td>
<td>216</td>
</tr>
</tbody>
</table>

### Optional Accessories:

- **Anti-short Cycle Timer**: TAYASCT501A
- **Evaporator Defrost Control**: NA
- **Rubber Isolator Kit**: BAYISLT101
- **Extreme Condition Mount Kit**: BAYECMT023
- **Start Kit**: BAYKSKT263
- **Crankcase Heater Kit**: BAYCCHT302
- **Seacoast Kit**: BAYSND003
- **Low Ambient Kit**: BAYSEAC001
- **Refrigerant Lineset (e)**: TAYREFLN7*
- **Sound Enclosure**: TAYSEAC001
- **Refrigerant Lineset (e)**: BAYLOAM107
- **Service Valve Panel Cover**: TAYVPANL0032AA

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(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) 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).

(d) 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. Always verify proper system charge via subcooling (TXV/EEV) or superheat (fixed orifice) per the unit nameplate.

(e) * = 15, 20, 25, 30, 40 and 50 foot lineset available.
Model No. (a)  |  4TWR4042G1000A  |  4TWR4048G1000A  |  4TWR4060G1000A  

POWER CONNS. — V/PH/HZ (b)  |  280/230/1/60  |  280/230/1/60  |  280/230/1/60  

MIN. BRCH. CIR. AMPACITY  |  25  |  26  |  32  

BR. CIR. PROT. RTG. — MAX. (AMPS)  |  40  |  45  |  50  

COMPRRESSOR  |  CLIMATUFF®-SCROLL  |  CLIMATUFF®-SCROLL  |  CLIMATUFF®-SCROLL  

RL AMPS — LR AMPS  |  19.2 — 124  |  19.6 — 130  |  24.4 — 144  

Outdoor Fan FL AMPS  |  1.05  |  1.05  |  1.05  

Fan HP  |  1/5  |  1/5  |  1/5  

Fan Dia (inches)  |  27.5  |  27.5  |  27.5  

Coil  |  SPINE FIN™  |  SPINE FIN™  |  SPINE FIN™  

Refrigerant R-410A  |  6 LBS., 5 OZ  |  9 LBS., 0 OZ  |  10 LBS., 13 OZ  

LINE SIZE — IN. O.D. GAS (c)(d)  |  7/8  |  7/8  |  1 1/8  

LINE SIZE — IN. O.D. LIQ.  |  3/8  |  3/8  |  3/8  

Charge Spec. Subcooling  |  10°F  |  10°F  |  10°F  

Dimensions H x W X D Crated (IN.)  |  34.4 x 38.7 x 35.1  |  34.4 x 38.7 x 35.1  |  51 x 38.7 x 35.1  

Weight — Shipping (lbs.)  |  248  |  256  |  315  

Weight — Net (lbs.)  |  216  |  222  |  278  

Optional Accessories:  

Anti-short Cycle Timer  |  TAYASCT501A  |  TAYASCT501A  |  TAYASCT501A  

Evaporator Defrost Control  |  NA  |  NA  |  NA  

Rubber Isolator Kit  |  BAYISLT101  |  BAYISLT101  |  BAYISLT101  

Extreme Condition Mount Kit  |  BAYECMT004  |  BAYECMT004  |  BAYECMT004  

Start Kit  |  BAYSKT263  |  BAYSKT263  |  BAYSKT263  

Crankcase Heater Kit  |  BAYCCHT301  |  BAYCCHT301  |  BAYCCHT301  

Seacoast Kit  |  BAYSEAC001  |  BAYSEAC001  |  BAYSEAC001  

Low Ambient Kit  |  BAYLOAM107  |  BAYLOAM107  |  BAYLOAM107  

Refrigerant Lineset (e)  |  TAYREFLN3*  |  TAYREFLN3*  |  TAYREFLN3*  

Sound Enclosure  |  BAYSDEN004  |  BAYSDEN004  |  BAYSDEN004  

Service Valve Panel Cover  |  TAYSVPNL0032AA  |  TAYSVPNL3343AA  |  TAYSVPNL0046AA  

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(e) * = 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>4TWR4018G1</td>
<td>73</td>
<td>72</td>
</tr>
<tr>
<td>4TWR4024G1</td>
<td>71</td>
<td>77</td>
</tr>
<tr>
<td>4TWR4030G1</td>
<td>72</td>
<td>77</td>
</tr>
<tr>
<td>4TWR4036G1</td>
<td>75</td>
<td>84</td>
</tr>
<tr>
<td>4TWR4042G1</td>
<td>72</td>
<td>79</td>
</tr>
<tr>
<td>4TWR4048G1</td>
<td>72</td>
<td>81</td>
</tr>
<tr>
<td>4TWR4060G1</td>
<td>72</td>
<td>81</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

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
  A = Light Commercial
  M or B = Basic
  L = Side Discharge
- Family SEER
  3 = 13
  4 = 14
  5 = 15
  6 = 16
  8 = 18
  9 = 19
- Split System Connections 1-6 Tons
  0 = Brazed
- Nominal Capacity in 000s 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
Figure 5. 4 and 5 Ton Models

NOTES:
1. BE SURE POWER SUPPLY SAME WITH EQUIPMENT BASEPLATE.
2. POWER SUPPLY AND MOUNTING OF EQUIPMENT MUST COMPLY WITH
   LOCAL CODES.
3. SEE VOLTAGE RATING TO BE 60, 120 AND 240V CONNECTION.
4. SR-15 MAY BE SET LOWEST VOLTAGE.
5. TAP-NHD IS NOT NEEDED. SEE JUMPER BETWEEN 61 AND 62 AT AIR HANDLER.

LEGEND:

- [Diagram symbols and explanations]

NOTE:

- SEE SERVICE DATA FOR OPTIONAL ELEMENT AND LOCAL CODES.
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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