Split System Heat Pump Product Data

XR17
4TWR7

2, 3, 4 & 5 Tons

PUB. NO. 22-1886-05
Features and Benefits

- **CLIMATUFF™** 2-stage scroll compressor
- Efficiency up to **18.0 SEER** and **9.5 HSPF**
- All Aluminum **SPINE FIN™** coil
- **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 PSC 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

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Features and Benefits</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>General Data</strong></td>
<td></td>
</tr>
<tr>
<td>Product Specifications</td>
<td>4</td>
</tr>
<tr>
<td>A-weighted Sound Power Level [dB(A)]</td>
<td>4</td>
</tr>
<tr>
<td>Accessory Description and Usage</td>
<td>5</td>
</tr>
<tr>
<td>AHRI Standard Capacity Rating Conditions</td>
<td>5</td>
</tr>
<tr>
<td><strong>Model Nomenclature</strong></td>
<td>6</td>
</tr>
<tr>
<td><strong>Electrical Data</strong></td>
<td>7</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>10</td>
</tr>
<tr>
<td><strong>Mechanical Specifications</strong></td>
<td>11</td>
</tr>
</tbody>
</table>
General Data

Product Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>4TWR7024A1000C</th>
<th>4TWR7036B1000B</th>
<th>4TWR7048A1000C</th>
<th>4TWR7060A1000C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Data 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 Cir Ampacity</td>
<td>15</td>
<td>21</td>
<td>28</td>
<td>37</td>
</tr>
<tr>
<td>Max Fuse Size (Amps)</td>
<td>25</td>
<td>35</td>
<td>45</td>
<td>60</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>No. Compress. – No. Stages</td>
<td>1-2</td>
<td>1-2</td>
<td>1-2</td>
<td>1-2</td>
</tr>
<tr>
<td>RL AMPS - LR AMPS</td>
<td>11.7 - 58.3</td>
<td>15.3 - 83</td>
<td>21.2 - 104</td>
<td>28.8 - 152.9</td>
</tr>
<tr>
<td>Outdoor Fan FL Amps</td>
<td>0.74</td>
<td>0.74</td>
<td>1.00</td>
<td>1.30</td>
</tr>
<tr>
<td>Fan HP</td>
<td>1/8</td>
<td>1/8</td>
<td>1/5</td>
<td>1/4</td>
</tr>
<tr>
<td>Fan Dia (inches)</td>
<td>27.6</td>
<td>27.87</td>
<td>27.6</td>
<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>Line Size - (in.) O.D. Gas</td>
<td>5/8</td>
<td>3/4</td>
<td>7/8</td>
<td>1-1/8</td>
</tr>
<tr>
<td>Dimensions H x W x D (Crated)</td>
<td>46.4 x 35.1 x 38.7</td>
<td>46.4 X 35.1 X 38.7</td>
<td>51.0 x 35.1 x 38.7</td>
<td>51.0 x 35.1 x 38.7</td>
</tr>
<tr>
<td>Weight - Shipping</td>
<td>272</td>
<td>258</td>
<td>329</td>
<td>330</td>
</tr>
<tr>
<td>Weight - Net</td>
<td>236</td>
<td>210</td>
<td>292</td>
<td>293</td>
</tr>
<tr>
<td>Start Components</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>Sound Enclosure</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>Compressor Sump Heat</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
</tbody>
</table>

Optional Accessories:

- Rubber Isolator Kit: BAYISLT101
- Snow Leg - 7" High: BAYLEG007
- Snow Leg - 4" High: BAYLEG004
- Hard Start Kit Scroll: BAYSKT263
- Extreme Condition Mounting Kit: BAYECMT004
- Vertical Discharge Air Kit Base 4: BAYVDA004
- Auto Charge Solenoid Kit: BAYAKT001
- Refrigerant Lineset: TAYREFLN9* TAYREFLN7* TAYREFLN3* TAYREFLN4*

- Certified in accordance with the Air-Source Unitary Heat Pump Equipment certification program which is based on AHRI Standard 210/240.
- Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.
- For Greater lengths and lifts refer to refrigerant piping software Pub# 32-3312-0†. (†denotes latest revision)
- For accessory description and usage, see page 5.
- * = 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>4TWR7024A1</td>
<td>72</td>
<td>67</td>
</tr>
<tr>
<td>4TWR7036B1</td>
<td>72</td>
<td>66</td>
</tr>
<tr>
<td>4TWR7048A1</td>
<td>72</td>
<td>68</td>
</tr>
<tr>
<td>4TWR7060A1</td>
<td>74</td>
<td>58</td>
</tr>
</tbody>
</table>

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.
Electrical Data

Schematic Diagrams

4TWR7036B

WARNING

VOLTAGE HAZARD: EXPOSED TO ELECTRICAL HAZARD.

CAUTION

USE COPPER CONDUCTORS ONLY.

NOTES:

1. NO DIREC POWER SUPPLY AGREES WITH BOARD NAMEPLATE.
2. POWER WIRING AND INSTALLATION OF CONNECTORS MUST COMPLY WITH:
3. LOW VOLTAGE WIRING TO BE NO. 16 AND NO. 18 CONDUCTORS.
4. OUT-S MUST BE NO. 16 OR 18 CONDUCTORS.
5. IF 208/230 V IS NOT USED, CONNECT A JUMPER WIRE FROM TO TO Y2. IF 208/230 V IS NOT USED, CONNECT A JUMPER WIRE FROM Y2 TO Y1.
7. MOUNT Y1 EMERGENCY INDOOR FAN AS 1ST SYSTEM CONFIGURATION.
8. MOUNT F1 & F2 EMERGENCY FANS, INDOOR FAN AS 2ND CONFIGURATION.
9. SEE AIR HANDLER INSTALLER GUIDE FOR 3-PH CONFIGURATION.

FOR CANADIAN INSTALLATIONS

POUR INSTALLATIONS CANADIENNES

CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V TO GROUND.

Printed from D158282P03
Electrical Data

Schematic Diagrams

LEGEND

- - 24 V. LINE V. FACTORY WIRING
- - 24 V. LINE V. FIELD WIRING
- X 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
CSS COIL BOTTOM SENSOR
CF FAN CAPACITOR
CN WIRE CONNECTOR
CPS COMPRESSOR
CR RUN CAPACITOR
CS STARTING CAPACITOR
CSR CAPACITOR SWITCHING RELAY
DFC DEFROST CONTROL
F INDOOR FAN RELAY
HA HEATING ANTICIPATOR
HP CO HIGH PRESSURE CUTOUT SW.
IOL INTERNAL OVERLOAD PROTECTOR
LPCO LOW PRESSURE CUTOUT SW.
MS COMPRESSOR MOTOR CONTACTOR
OSA OUTDOOR ANTICIPATOR
OTT OUTDOOR FAN THERMOSTAT
OST OUTDOOR THERMOSTAT
RS RHEOSTAT
SC SWITCHOVER VALVE SOLENOID
SYS SYSTEM "ON-OFF" SWITCH
TDL DISCHARGE LINE THERMOSTAT
TNS TRANSFORMER
TS HEATING-COOLING THERMOSTAT
TSH HEATING THERMOSTAT
### Dimensions

**4TWR7 Outline Drawing**

Note: All dimensions are in MM (Inches).

---

**MODELS**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>BASE</th>
<th>A (1045)</th>
<th>B (946)</th>
<th>C (870)</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
</tr>
</thead>
</table>

---

- **From Dwg. D152635**
Mechanical Specifications

General
The 4TWR7 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° see Application Guide.