Features and Benefits

• Climatuff® compressor
• All aluminum Spine Fin™ coil
• Quick-Sess™ cabinet, service access and refrigerant connections with full coil protection
• DuraTuff™ base, fast complete drain, weather proof
• Glossy corrosion resistant finish
• Internal compressor high/low pressure and temperature protection
• 030 ships with Start Kit
• Liquid line filter-drier
• Polyslate gray cabinet
• Low Pressure Switch
• Demand Defrost Control
• High Pressure Switch
• R-410A refrigerant
• 100% line run test
• Low ambient cooling to 55°F as shipped
• Low ambient cooling to 30°F with EDC accessory AY28X084 and TXV
• Extended warranties available
# Contents

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- **Dimensions** 10
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**General Data**

**Product Specifications**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>4TWR3018D1000A</th>
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**Optional Accessories:**

- Anti-short Cycle Timer: TAYASCT501A
- Evaporator Defrost Control: AY28X084
- Rubber Isolator Kit: BAYISLT101
- Snow Leg-Base & Cap 4" High: BAYLEG002
- Snow Leg-4" Extension: BAYLEG003
- Extreme Condition Mounting Kit: BAYECMT023
- Start Kit: BAYSKT263
- Crankcase Heater Kit: BAYCCHT302
- Seacoast Kit: BAYSEAC001
- Low Ambient Kit: BAYLOAM103
- Refrigerant Lineset: TAYREFLN9*

**Sound Power Level**

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**Note:** Rated in accordance with AHRI Standard 270-2008
General Data

Product Specifications

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<tr>
<td>Coil</td>
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<td>Spine Fin™</td>
<td>Spine Fin™</td>
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<td>Refrigerant R-410A</td>
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<td>8/14-LB/OZ</td>
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<td>Charge Spec. Subcooling</td>
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<td>8°F</td>
<td>8°F</td>
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<tr>
<td>Dimensions H x W x D (Crated)</td>
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<tr>
<td>Compressor Sump Heat</td>
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<td>Optional Accessories:</td>
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<tr>
<td>Anti-short Cycle Timer</td>
<td>TAYASCT501A</td>
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<td>Evaporator Defrost Control</td>
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<td>Rubber Isolator Kit</td>
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<td>Snow Leg-Base &amp; Cap 4&quot; High</td>
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<td>Extreme Condition Mounting Kit</td>
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<td>Start Kit</td>
<td>BAYSKT263</td>
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<td>Crankcase Heater Kit</td>
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<td>Seacoast Kit</td>
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<td>Low Ambient Kit</td>
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<td>TAYREFLN*</td>
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</tbody>
</table>

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.

Evaporator 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 —

(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.
# Model Nomenclature

## Outdoor Units

<table>
<thead>
<tr>
<th>Refrigerant Type</th>
<th>2 = R-22</th>
<th>4 = R-410A</th>
</tr>
</thead>
</table>

**TRANE**

**Product Type**

- W = Split Heat Pump
- T = Split Cooling

**Product Family**

- Z = Leadership – Two Stage
- X = Leadership
- R = Replacement/Retail
- B = Basic

**Family SEER**

- 0 = 10
- 1 = 11
- 2 = 12
- 3 = 13
- 4 = 14
- 5 = 15
- 6 = 16
- 7 = 17
- 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
- 2 = 208-230/1/60
- 3 = 200-230/3/60
- 4 = 460/3/60

**Secondary Function**

**Minor Design Modifications**

**Unit Parts Identifier**

## Gas Furnaces

- 1234567890101112131415

**Furnace Configuration**

- T + Upflow/Horizontal
- D = Downflow/Horizontal

**Type**

- E = 80% Induced Draft Standard
- D = 80% Induced Draft Premium
- C = 90% Condensing Standard
- H = 95% Condensing Premium

**Number of Heating Stages**

- 1 = Single Stage
- 2 = Two Stage
- M = Modulating

**Cabinet Width**

- A = 14.5" Cabinet Width
- B = 17.5" Cabinet Width
- C = 21.0" Cabinet Width
- D = 24.5" Cabinet Width

**Heating Input in 1000's (BTUH)**

- 080 = 80,000 BTUH

**Major Design Change**

**Efficiency**

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

**Refrigerant Control**

- 3 = TXV - Non-Bleed

**Coil Circuitry**

- H = Heat Pump
- C = Cooling

**Airflow Configuration**

- A = Upflow Only
- U = Upflow / Downflow
- H = Horizontal Only
- C = Convertible - Upflow, Downflow, Left or Right Airflow

## Air Handler

| Brand | T = Better | G = Good |

**Product Tier**

- 2 = Good, Entry Level Feature Set
- 4 = Better, Retail Replacement Mid Effy.
- 5 = Better, Entry Level High Effy., Multi-Speed
- 7 = Best, Retail Replacement High Effy., Variable-Speed
- 8 = Best, Retail Ultimate High Effy., Variable-Speed

**Major Design Change**

**No Descriptor**

- 0 = Air Handler / Coil

**Size (Footprint)**

- A = 17.5 x 21.5
- B = 21.0 x 21.5
- C = 23.5 x 21.5
- D = 24.5 x 21.5

**Cooling Size: Air Handler or Coil**

- 0/9 = AH Coil - 1000 BTU’s (18, 24, 30, 36, 42, 48, 60)

**Airflow Type & Capability**

- S = Low Effy PSC, 1-5 - nom. Tonnage (cfm/ton)
- M = Mid Effy Multi-Speed, 1-5 - nom. Tonnage (cfm/ton)
- H = High Effy Multi-Speed, 1-5 - nom. Tonnage (cfm/ton)
- V = High Effy Variable, 1-5 - nom. Tonnage (cfm/ton)

**Power Supply**

- 1 = 208-230/1/60

**System Control Type**

- S = Standard - 24 VAC
- C = CLII 13.8 VDC

## Heat Pump/ Cooling Coils

| Refrigerant Type | 4 = R-410A |

**Series**

- 1 = Premium (Heat Pump or Convertible Coil)
- C = Standard (Cooling Only)

**Coil Design**

- X = Direct Expansion Evaporator Coil

**Coil Feature**

- C = Cased A Coil
- A = Uncased A Coil
- F = Cased Horizontal Flat Coil

**Coil Width (Cased/Uncased)**

- A = 14.5"/13.3"
- B = 17.5"/16.3"
- C = 21.0"/19.8"
- D = 24.5"/23.3"
- H = 10.5"

**Refrigerant Line Coupling**

- 0 = Brazed

**Nominal Capacity in 1000's (BTUH)**

**Major Design Change**

**Efficiency**

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

**Refrigerant Control**

- 3 = TXV - Non-Bleed

**Coil Circuitry**

- H = Heat Pump
- C = Cooling

**Airflow Configuration**

- A = Upflow Only
- U = Upflow / Downflow
- H = Horizontal Only
- C = Convertible - Upflow, Downflow, Left or Right Airflow

**Minor Design Change**

**Service Digit - Not Orderable**
Electrical Data

Schematic Diagrams

(See Legend)

4TWR3030C1

Diagram showing electrical connections and components with legend for wire colors and codes.

NOTES:
1. If DOT-B is not used, add jumper between #2 & #3.
2. If DOT-A is not used, add jumper between #1 & #2.
3. Low voltage (24 V) field wiring must be 18 AWG min.

FOR CANADIAN INSTALLATIONS
POUR INSTALLATIONS CANADIENNES

WARNING: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150 V TO GROUND.
ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE.
Electrical Data

SCHEMATIC DIAGRAMS

4TWR3042B

PRINTED FROM D157061P01
Dimensions

4TWR3 OUTLINE DRAWING
NOTE: ALL DIMENSIONS ARE IN MM (INCHES)

<table>
<thead>
<tr>
<th>MODELS</th>
<th>BASE</th>
<th>FIG.</th>
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<th>B</th>
<th>C</th>
<th>D</th>
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<td>508</td>
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</table>

FIG. 1

FIG. 2

TOP OPERATING AREA SHOULD BE INHABITED FOR AT LEAST 10 X 5 X 5 FEET.
ABOVE UNIT, UNIT SHOULD BE PLACED TO PREVENT WATER DOES NOT FLOW DIRECTLY ON UNIT AND SHOULD BE AT LEAST 30 FT. FROM WALL AND SURROUNDING STRUCTURE ON TWO SIDES, OTHER TWO SIDES UNRESTRICTED.
Mechanical Specification Options

General
The 4TWR3 is 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 UL listed. Exterior is designed for outdoor application.

Casing
Unit casing is constructed of heavy gauge, G90 galvanized steel and painted with a weather-resistant powder paint on all louvers, panels, prepaint on all other panels. Corrosion and weather-proof 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® compressor features internal over temperature and pressure protection and total dipped hermetic motor. 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 unit has a cooling capability 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.

Accessories
Thermostats — Cooling only and heat/cooling (manual and automatic change-over). Sub-base to match thermostat and locking thermostat cover.

Evaporator Defrost Control — See Low Ambient Cooling.