Split System
Heat Pump
Product Data

XB 13
4TWB3018-060

1½ – 5 Tons
Features and Benefits

• 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

## Features and Benefits

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- A-weighted Sound Power Level [dB(A)]
- Accessory Description and Usage
- AHRI Standard Capacity Rating Conditions

## Model Nomenclature

## Electrical Data

## Dimensions

## Mechanical Specification Options
## Product Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>4TWB3018D1000A</th>
<th>4TWB3024D1000A</th>
<th>4TWB3030C1000A</th>
<th>4TWB3036C1000A</th>
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<td>35</td>
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<td>NO</td>
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<td><strong>Optional Accessories:</strong> ⑤</td>
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<td></td>
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<td>Anti-short Cycle Timer</td>
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<td>TAYREFLN8*</td>
<td>TAYREFLN8*</td>
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① Certified in accordance with the Air-Source Unitary Heat Pump equipment certification program which is based on AHRI Standard 210/240.
② Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.
③ Standard line lengths - 60'. Standard lift - 60' Suction and Liquid line.
④ For Greater lengths and lifts refer to refrigerant piping software Pub# 32-3312-0. *(denotes latest revision)*
⑤ For accessory description and usage, see page 5.
⑥ * = 15, 20, 25, 30, 40 and 50 foot line set available.

## Sound Power Level

<table>
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<td>76</td>
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Note: Rated in accordance with AHRI Standard 270-2008
General Data

Product Specifications

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<td>SCROLL</td>
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<td>RL Amps - LR Amps</td>
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<td>Fan Dia (inches)</td>
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<tr>
<td>Coil</td>
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<td>Refrigerant R-410A</td>
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<tr>
<td>Compressor Sump Heat</td>
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</table>

Optional Accessories:

- **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.

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.
Electrical Data

SCHEMATIC DIAGRAMS

4TWB3024D

CA COOLING ANTICIPATOR
CSR COVER, BOTTOM SENSOR
CF FAN CAPACITOR
CH FAN CONNECTOR
CR COVER, TOP SENSOR
CS STARTING CAPACITOR
CSR CAPACITOR SWITCHING RELAY
HPCO HIGHER PRESSURE CUTOFF SW
HPCD LOW PRESSURE CUTOFF SW
MS COMPRESSOR MOTOR CONTACOR
ODA OUTDOOR AIR FILTER
ODT OUTDOOR FAN-THERMOSTAT
ODR OUTDOOR RAIN SENSOR
ODT OUTDOOR THERMOSTAT
TEG RESISTANCE HEAT SWITCH
DC SWITCHER VALVE SOLENOID
SN SYSTEM "ON/Off" SWITCH
TCL DISCHARGE LINE THERMOSTAT
TSG TRANSFORMER
TSI HEATING COOLING THERMOSTAT
TSH HEATING THERMOSTAT

COLOR OF WIRE
BLUE BLK BLACK W/ BLUE MARKER
ORANGE OR ORANGE ORANGE W/ ORANGE MARKER
YELLOW YL YL YELLOW W/ YELLOW MARKER
RED RD RED W/ RED MARKER
WHITE WH WHITE W/ WHITE MARKER
BROWN BR BROWN W/ BROWN MARKER

WARNING

HAZARDOUS VOLTAGE
DISCONNECT ALL ELECTRIC POWER
INCLUDING REMOTE DISCONNECTS
BEFORE SERVICING
FAILURE TO DISCONNECT POWER
BEFORE SERVICING CAN CAUSE
SEVERE PERSONAL INJURY OR DEATH

CAUTION

USE COPPER CONDUCTORS ONLY
UNIT TERMINALS ARE NOT DESIGNED
TO ACCEPT OTHER TYPES OF
CONDUCTORS
FAILURE TO DO SO MAY CAUSE
DAMAGE TO THE EQUIPMENT

NOTES:

1. IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3
   AT AIR HANDLER
2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2
   AT AIR HANDLER
3. LOW VOLTAGE 12V 3 FIELD WIRING MUST BE 18 AWG MIN.

FOR CANADIAN INSTALLATIONS
POUR INSTALLATIONS CANADIENNES

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

SCHEMATIC DIAGRAMS

4TWB3042B

TO POWER SUPPLY PER UNIT NAMEPLATE AND LOCAL CODES

CA COOLING ANTICIPATOR
CCF COLLECTOR SENSOR
CM COLLECTOR METER
CMY COMPR.
CPC CAPACITOR
CPT CAPACITOR STARTING
CSR CAPACITOR STARTING RELAY
CTC CUTOUT
DTC DISCONNECT
F1 INDOOR FAN RELAY
HA HEATING ANTICIPATOR
HPS HIGH PRESSURE CUTOUT
IO INTERNAL OUTDOOR PROTECTOR
LPDO LOW PRESSURE CUTOUT
SCL HEATING THERMOSTAT
TIN TRANSFORMER

WARNING
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE Disconnects BEFORE SERVICING.
Failure to disconnect power before servicing can cause severe personal injury or death.

CAUTION
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

COLOR OF WIRE
BLUE BLACK WHITE WITH BLUE MARKER
COLOR OF MARKER
BK BLACK OR ORANGE YL YELLOW
BL BLUE RO RED OR GREEN
BR BROWN W WHITE PB PURPLE

NOTES:
1. IF ODT-B IS NOT USED, ADD JUMPER BETWEEN MS & X2 AT AIR HANDLER.
2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN MS & X2 AT AIR HANDLER.
3. LOW VOLTAGE 12V INPUT WIRING MUST BE 18 AWG MIN.

FOR CANADIAN INSTALLATIONS
POUR INSTALLATIONS CANADIENNES
CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V TO GROUND.
ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE.

PRINTED FROM D157061P01
Electrical Data

SCHEMATIC DIAGRAMS

4TWB3048B

CA COOLING ANTICIPATOR
CS1 COIL BOTTOM SENSOR
CF1 FAN CAPACITOR
CN1 WIRE CONNECTOR
CS2 RUN CAPACITOR
CSR CAPACITOR SWITCHING RELAY
F INDOOR FAN RELAY
HA HEATING ANTICIPATOR
HPDC HIGH PRESSURE CUTOUT SW
IOL INTERNAL OVERLOAD PROTECTOR
LPDC LOW PRESSURE CUTOUT SW
MS COMPRESSOR MOTOR CONTACTOR
OSA OUTDOOR ANTICIPATOR
OIT OUTDOOR FAN THERMOSTAT
OSD OUTDOOR TEMPERATURE SENSOR
OST OUTDOOR THERMOSTAT
PAS RESISTANCE HEAT SWITCH
SC SWITCHVALVE VALVE SOLENOID
SM SYSTEM ON-OFF SWITCH
TEL DISCHARGE LINE THERMOSTAT
TFS TRANSFORMER
THF HEATING THERMOSTAT

WARNING
HAZARDOUS VOLTAGE
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.
FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

CAUTION
USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

COLOR OF WIRE
BR BLACK OR WHITE
BL BLUE OR GREEN
YL YELLOW
BR BLACK WITH BLUE MARKER
BL BLUE WITH GREEN MARKER
YL YELLOW WITH BROWN MARKER

NOTES:
1. IF ODS-B IS NOT USED, ADD JUMPER BETWEEN R & N3 AT AIR HANDLER.
2. IF ODS-A IS NOT USED, ADD JUMPER BETWEEN R & N2 AT AIR HANDLER.
3. LOW VOLTAGE (24 V) FIELD WIRING MUST BE 18 AWG MIN.

FOR CANADIAN INSTALLATIONS:
POUR INSTALLATIONS CANADIENNES.

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

PRINTED FROM D157059P01
### Dimensions

**4TWB3 OUTLINE DRAWING**

**NOTE:** ALL DIMENSIONS ARE IN MM (INCHES)

**Fig. 2**

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<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<td>86 (3-3/8)</td>
<td>508 (20)</td>
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Mechanical Specification Options

**General**
The 4TWB3 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 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.
Trane has a policy of continuous product and product data improvement and it reserves the right to change design and specifications without notice.