Split System Cooling Product Data

Three Phase
4TTA3

2½ – 5 Tons
Features and Benefits

- All aluminum Spine Fin™ coil
- WeatherGuard™ fasteners
- Quick-Sess™ cabinet, service access and refrigerant connections with full coil protection
- DuraTuff™ base, fast complete drain, weatherproof
- Comfort “R”™ mode approved
- Glossy corrosion resistant finish
- Internal compressor high/low pressure and temperature protection
- Liquid line filter-drier
- Polyslate gray cabinet with anthracite gray badge and cap
- R-410A refrigerant
- Low Pressure Switch
- High Pressure Switch
- Compressor Sump Heat
- S.E.E.T. design testing
- 100% line run test
- Low ambient cooling to 55°F as shipped
- Low ambient cooling to 30°F with AY28X079
- Low ambient cooling to 0°F with BAYLOAM103
- Extended warranties available
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General Data

Product Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>4TTA3030A3</th>
<th>4TTA3030A4</th>
<th>4TTA3036B3</th>
<th>4TTA3036B4</th>
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<tbody>
<tr>
<td>Electrical Data V/Ph/Hz</td>
<td>200/230/3/60</td>
<td>460/3/60</td>
<td>208/230/3/60</td>
<td>460/3/60</td>
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<tr>
<td>Min Cir Ampacity</td>
<td>10</td>
<td>5</td>
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<td>Max Fuse Size (Amps)</td>
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<td>RECIP</td>
<td>SCROLL</td>
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<td>Outdoor Fan FL Amps</td>
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<td>Spine Fin™</td>
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<tr>
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<td>10°</td>
<td>10°</td>
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<tr>
<td>Dimensions H x W x D (Crated)</td>
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<td>NO</td>
<td>NO</td>
<td>NO</td>
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<tr>
<td>Sound Enclosure</td>
<td>NO</td>
<td>NO</td>
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<tr>
<td>Compressor Sump Heat</td>
<td>YES</td>
<td>YES</td>
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Optional Accessories:

- Anti-short Cycle Timer: TAYASCT501A
- Evaporator Defrost Control: AY28X079
- Rubber Isolator Kit: BAYISLT101
- Snow/Sand Legs - Base & Cap 4" High: BAYLEGS002
- Snow/Sand Legs - 4" Extension: BAYLEGS003
- Indoor Fan Delay Kit: BAY24X045
- Sound Enclosure: BAYSEAC001
- Seacoast Kit: BAYSEAC001
- Low Ambient Kit: BAYLOAM103
- Refrigerant Lineset: TAYLEGS002

A-Weighted Sound Power Level [dB(A)]

<table>
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<th>MODEL</th>
<th>SOUND POWER LEVEL [dB(A)]</th>
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<td>4TTA3036B3/4</td>
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<tr>
<td>4TTA3042D3/4</td>
<td>79</td>
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<td>4TTA3048D3/4</td>
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<td>4TTA3060D3/4</td>
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<tr>
<th>A_WEIGHTED FULL OVTAVE SOUND POWER LEVEL dB - [dB(A)]</th>
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<tr>
<td>63</td>
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<td>79</td>
</tr>
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<td>79</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>
<td>SCROLL</td>
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<td>RL Amps - LR Amps</td>
<td>13.6 - 83</td>
<td>6.4 - 41</td>
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<td>Outdoor Fan FL Amps</td>
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<td>0.6</td>
<td>1.2</td>
<td>0.6</td>
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<td>27.6</td>
<td>27.6</td>
<td>27.6</td>
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<tr>
<td>Coil</td>
<td>Spine Fin™</td>
<td>Spine Fin™</td>
<td>Spine Fin™</td>
<td>Spine Fin™</td>
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<td>Charge Spec. Subcooling</td>
<td>10</td>
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<td>10</td>
<td>10</td>
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<td>Dimensions H x W x D (Crated)</td>
<td>34.4 x 35.1 x 38.7</td>
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<td>34.4 x 35.1 x 38.7</td>
<td>38.4 x 35.1 x 38.7</td>
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<td>Start Components</td>
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<tr>
<td>Sound Enclosure</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
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<tr>
<td>Compressor Sump Heat</td>
<td>YES</td>
<td>YES</td>
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<td>YES</td>
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Optional Accessories: ⑤
- Anti-short Cycle Timer — TAYASCT501A
- Evaporator Defrost Control — AY28X079
- Rubber Isolator Kit — BAYSLT101
- Snow/Sand Legs - Base & Cap 4" High — BAYLEGS002
- Snow/Sand Legs - 4" Extension — BAYLEGS003
- Indoor Fan Delay Kit — BAY24X045
- Sound Enclosure — BAYSND003
- Extreme Condition Mounting Kit — BAYECM001
- Seacoast Kit — BAYSEAC001
- Low Ambient Kit — BAYLOAM103
- Refrigerant Lineset ⑤ — TAYREFLN7*

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.
## General Data

### Product Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>4TTA3060D3</th>
<th>4TTA3060D4</th>
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<tr>
<td><strong>Electrical Data V/Ph/Hz</strong></td>
<td>208/230/3/60</td>
<td>460/1/60</td>
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<tr>
<td><strong>Min Cir Ampacity</strong></td>
<td>21</td>
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<td><strong>Max Fuse Size (Amps)</strong></td>
<td>35</td>
<td>15</td>
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<tr>
<td><strong>Compressor</strong></td>
<td>SCROLL</td>
<td>SCROLL</td>
</tr>
<tr>
<td><strong>RL Amps - LR Amps</strong></td>
<td>15.6 - 110</td>
<td>7.8 - 52</td>
</tr>
<tr>
<td><strong>Outdoor Fan FL Amps</strong></td>
<td>1.2</td>
<td>0.6</td>
</tr>
<tr>
<td><strong>Fan HP</strong></td>
<td>1/5</td>
<td>1/5</td>
</tr>
<tr>
<td><strong>Fan Dia (inches)</strong></td>
<td>27.6</td>
<td>27.6</td>
</tr>
<tr>
<td><strong>Coil</strong></td>
<td>Spine Fin™</td>
<td>Spine Fin™</td>
</tr>
<tr>
<td><strong>Refrigerant R-410A</strong></td>
<td>8/00-LB/OZ</td>
<td>8/00-LB/OZ</td>
</tr>
<tr>
<td><strong>Line Size - (in.) O.D. Gas</strong></td>
<td>7/8</td>
<td>7/8</td>
</tr>
<tr>
<td><strong>Line Size - (in.) O.D. Liquid</strong></td>
<td>3/8</td>
<td>3/8</td>
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<tr>
<td><strong>Charge Spec. Subcooling</strong></td>
<td>10°</td>
<td>10°</td>
</tr>
<tr>
<td><strong>Dimensions H x W x D (Crated)</strong></td>
<td>42.4 x 35.1 x 38.7</td>
<td>42.4 x 35.1 x 38.7</td>
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<td><strong>Weight - Shipping</strong></td>
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<td><strong>Start Components</strong></td>
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<td><strong>Sound Enclosure</strong></td>
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<tr>
<td><strong>Compressor Sump Heat</strong></td>
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<td>YES</td>
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### Optional Accessories:

<table>
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<tr>
<th>Accessory</th>
<th>Part No.</th>
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<tr>
<td>Anti-short Cycle Timer</td>
<td>TAYASCT501A</td>
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<tr>
<td>Evaporator Defrost Control</td>
<td>AY28X079</td>
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<tr>
<td>Rubber Isolator Kit</td>
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<td>Snow/Sand Legs - Base &amp; Cap 4&quot; High</td>
<td>BAYLEGS002</td>
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<td>Snow/Sand Legs - 4&quot; Extension</td>
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<td>Indoor Fan Delay Kit</td>
<td>BAY24X045</td>
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<td>Sound Enclosure</td>
<td>BAYSDEN004</td>
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<tr>
<td>Extreme Condition Mounting Kit</td>
<td>BAYECMT001</td>
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<tr>
<td>Seacoast Kit</td>
<td>BAYSEAC001</td>
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<td>Low Ambient Kit</td>
<td>BAYLOAM103</td>
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<tr>
<td>Refrigerant Líneset</td>
<td>TAYREFLN3*</td>
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1. Certified in accordance with the Unitary Air-Conditioner 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.
   For greater lengths and lifts refer to refrigerant piping software Pub# 32-3312-01. († denotes latest revision)
4. For accessory description and usage, see page 5.
5. * = 15, 20, 25, 30, 40 and 50 foot lineset available.
# Model Nomenclature

## Refrigerant Type
- 2 = R-22
- 4 = R-410A

## Product Type
- W = Split Heat Pump
- T = Split Cooling

## Product Family
- Z = Leadership – Two Stage
- X = Leadership
- R = Replacement/Retail
- B = Basic
- A = Light Commercial

## Family SEER
- 0 = 10
- 1 = 11
- 2 = 12
- 3 = 13
- 4 = 14
- 5 = 15
- 6 = 16
- 7 = 17
- 8 = 18
- 9 = 19
- 10 = 20

## Split System Connections
- 0 = Brazed
- 1 = 200-230/1/60 or 208-230/1/60
- 2 = 200-230/3/60
- 3 = 460/3/60

## Nominal Capacity in 000s of BTUs

## Major Design Modifications

## Power Supply
- 1 = 200-230/1/60 or 208-230/1/60
- 2 = 208-230/3/60
- 3 = 460/3/60

## Secondary Function

## Minor Design Modifications

## Unit Parts Identifier

## Outdoor Units

## High Efficiency Furnaces

## Furnace Configuration
- TU = Upflow / Horizontal
- TD = Downflow / Horizontal

## Type
- D = 80% Premium
- X = 90% Premium

## Number of Heating Stages
- 1 = Single Stage
- 2 = Two Stage
- 3 = Three Stage

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

## Heating Input
- 080 = 80,000 BTUH

## Major Design Change

## Power Supply / Fuel
- 9 = 115 Volts / Natural Gas
- F = 115 Volts / Natural Gas with Integrated ifD Filter

## Airflow Capacity for Cooling
- 36 = 3 Ton Standard PSC Motor
- H3 = 3 Ton High Efficiency Motor
- V3 = 3 Ton Variable Speed Motor

## Draft Inducer Speeds
- 1 = Single Speed
- 2 = Two Speed
- V = Variable Speed

## Minor Design Change

## Service Digit

## High Efficiency Furnaces

## Refrigerant Type
- 2 = R-22
- 4 = R-410A

## Product Family
- T = Premium (Heat Pump or Convertible Coil)
- C = Standard (Cooling Only)

## Coil Design
- X = Direct Expansion Evaporator Coil

## Product Family
- C = Cased A Coil
- A = Uncased A Coil
- F = Cased Horizontal Flat Coil

## Nominal Capacity in 000s of BTUs

## Major Design Change

## Efficiency
- C = Standard
- S = Hi Efficiency

## Refrigerant Control
- 3 = TXV – Non-Bleed

## Coil Circuity
- H = Heat Pump
- C = Cooling Only

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

## Minor Design Change

## Service Digit

## Heat Pump / Cooling Coils

## Refrigerant Type
- 2 = R-22
- 4 = R-410A

## Product Family
- T = Premium (Heat Pump or Convertible Coil)
- C = Standard (Cooling Only)

## Coil Design
- X = Direct Expansion Evaporator Coil

## Product Family
- C = Cased A Coil
- A = Uncased A Coil
- F = Cased Horizontal Flat Coil

## Nominal Capacity in 000s of BTUs

## Major Design Change

## Efficiency
- C = Standard
- S = Hi Efficiency

## Refrigerant Control
- 3 = TXV – Non-Bleed

## Coil Circuity
- H = Heat Pump
- C = Cooling Only

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

## Minor Design Change

## Service Digit
Electrical Data

Schematic Diagrams
(SEE LEGEND)

4TTA3036B4

TO POWER SUPPLY PER UNIT NAMEPLATE AND LOCAL CODES

CA COOLING ANTICIPATOR  LPCD LOW PRESSURE CUTOUT SW
CRS COIL BOTTOM SENSOR  MS COMPRESSOR MOTOR CONTACTOR
CF FAN CAPACITOR  ODA OUTDOOR ANTICIPATOR
CN WIRE CONNECTOR  ODF OUTDOOR FAN THERMISTOR
CPR COMPRESSOR  OTD OUTDOOR TEMPERATURE SENSOR
CR RUN CAPACITOR  OTT OUTDOOR THERMOSTAT
CS STARTING CAPACITOR  RBS RESISTANCE HEAT SWITCH
CSB CAPACITOR SWITCHING RELAY  SCS SWITCHDOVER VALVE SOLNOID
SFC DEHUMID CONTROL  SHF SUMP HEAT RELAY
F FAN/DOOR FAN RELAY  SNG SYSTEM ON-OFF SWITCH
HA HEATING ANTICIPATOR  TDG DIAPHRAGM (LR) THERMOSTAT
HPDC HIGH PRESSURE CUTOUT SW  TNS TRANSFORMER
IOL INTERNAL OVERLOAD PROTECTOR  TS* HEATING THERMOSTAT

WARNING
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER
INCLUDING REMOTE D 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
BL BLK OR ORANGE
YL YLW
DL BLU
BR BROWN
WH WHI
WHI
PR PPL

COLOR OF MARKER
BL BLACK
OR ORANGE
YL YLW
BL BLUE
RD RED
GR GREEN
BR BROWN
WH WHITE
PR PPL

NOTES:
1. IF OMT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3
   AT AIR HANDLER.
2. IF OMT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2
   AT AIR HANDLER.
3. LOW VOLTAGE (120 V) FIELD WIRING MUST BE 16 AWG MIN.

NOTE
THREE PHASE MOTOR (55 FACTORY SUPPLIES THIS EQUIPMENT
SINGLE-PHASE CONDITIONS.

PRINTED FROM D157075P04

10

22-1791-15-EN
Electrical Data

Schematic Diagrams

(SEE LEGEND)

4TTA3036B3, 4TTA3042D3, 4TTA3048D3, 4TTA3060D3

CA  COOLING ANTICIPATOR
CBS  COIL BOTTOM SENSOR
CT  FAN CAPACITOR
CN  WIRE CONNECTOR
CPR  COMPRESSOR
CR  RUN CAPACITOR
CS  STARTING CAPACITOR
CSR  CAPACITOR SWITCHING RELAY
SC  SENSOR CONNECTOR
SHA  HEATING ANTICIPATOR
TH  HEATING TRANSFORMER
HPCO  HIGH PRESSURE CUTOUT
IOL  INTERNAL OVERLOAD PROTECTOR
LPCO  LOW PRESSURE CUTOUT

WARNING
HAZARDOUS VOLTAGE:
DISCONNECT ALL ELECTRIC POWER
BEFORE SERVICING.
FAILURE TO DISCONNECT POWER
BEFORE SERVICING CAN CAUSE
SEVERE PERSONAL INJURY OR DEATH!

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

COLOR OF WIRE
BK  BLACK OR ORANGE
BL  BLUE
BR  BROWN OR WHITE
YL 黃色

NOTES:
1. IF OBT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3
   AT A AIR HANDLER
2. IF OBT-B IS NOT USED, ADD JUMPER BETWEEN W1 & W2
   AT A AIR HANDLER
3. LOW VOLTAGE (24 V) FIELD WIRING MUST BE 18 AWG MIN.

NOTE
THREE PHASE MOTOR 13G FACTORY
SUPPLIED. THIS EQUIPMENT
PROTECTED UNDER PRIMARY
SINGLE-PHASE CONDITIONS.

PRINTED FROM D157062P02
Electrical Data

Schematic Diagrams

(SEE LEGEND)

4TTA3042D4, 4TTA3048D4, 4TTA3060D4

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.

NOTE
THREE-PHASE MOTOR 15kW FACTORY SUPPLIED IN THIS EQUIPMENT PROTECTED UNDER PRIMARY SINGLE-PHASE CONDITIONS.

PRINTED FROM D157092P02
Dimensions

4TTA3 Outline Drawing

NOTE: ALL DIMENSIONS ARE IN MM (INCHES)

MODELS

<table>
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<tr>
<th>MODELS</th>
<th>BASE</th>
<th>FIG.</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<th>E</th>
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<th>G</th>
<th>H</th>
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<td>946 (37-1/4)</td>
<td>870 (34-1/4)</td>
<td>3/4</td>
<td>3/8</td>
<td>152 (6)</td>
<td>98 (3-7/8)</td>
<td>219 (8-5/8)</td>
<td>86 (3-3/8)</td>
<td>508 (20)</td>
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FROM DWG. D153074
Mechanical Specification
Options

General
The 4TTA3 shall be fully charged from the factory for matched indoor section and up to 15 feet of piping. This unit must be designed to operate at outdoor ambient temperatures as high as 115°F.

Cooling capacities shall be matched with a wide selection of air handlers and furnace coils that are AHRI certified. The unit is certified to UL 1995 application.

Casing
Unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint. Corrosion and weatherproof CMBP-G30 base.

Refrigerant Controls
Refrigeration system controls include condenser fan and compressor contactor. High and low pressure controls are inherent to the compressor. Another standard feature is the liquid line dryer.

Compressor
The compressor features internal over temperature and pressure protector, total dipped hermetic motor and thermostatically controlled sump heater. Other features include: roto lock suction and discharge refrigeration connections, centrifugal oil pump, and low vibration and noise.

Condenser Coil
The Spine Fin™ coil shall be continuously wrapped, corrosion resistant all aluminum with minimum brazed joints. This coil is 5/16 inch O.D. seamless aluminum glued to a continuous aluminum fin. Coils are lab tested to withstand 2,000 pounds of pressure per square inch. 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 30°F. The addition of a low ambient kit permits low ambient cooling to 0°F.

Accessories
Thermostats — Heating/Cooling (manual and automatic changeover). Sub-base to match thermostat and locking thermostat cover.

Evaporator Defrost Control — See Low Ambient Cooling.

Outdoor Thermostat — Supplemental heat outdoor ambient lockout from 46 to –10°F.