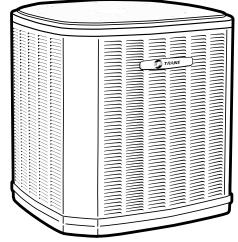


# **Product Data**

## **Split System Cooling**

4TTR6018J1000A 4TTR6024J1000B 4TTR6030J1000A 4TTR6036J1000A 4TTR6042J1000A 4TTR6048J1000A 4TTR6049J1000A 4TTR6060J1000A

4TTR6061C1000A



**Note:** "Graphics in this document are for representation only. Actual model may differ in appearance."





# **Product Specifications**

| Model No. (a)                     | 4TTR6018J1000A     | 4TTR6024J1000B     | 4TTR6030J1000A     |  |  |
|-----------------------------------|--------------------|--------------------|--------------------|--|--|
| POWER CONNS. — V/PH/HZ (b)        | 208/230/1/60       | 208/230/1/60       | 208/230/1/60       |  |  |
| MIN. BRCH. CIR. AMPACITY          | 12                 | 13                 | 17                 |  |  |
| BR. CIR. PROT. RTG. — MAX. (AMPS) | 20                 | 20                 | 25                 |  |  |
| COMPRESSOR                        | CLIMATUFF®- SCROLL | CLIMATUFF®- SCROLL | CLIMATUFF®- SCROLL |  |  |
| RL AMPS — LR AMPS                 | 9 — 47.5           | 10.1 — 52          | 12.8 — 67.8        |  |  |
| Outdoor Fan FL AMPS               | 0.64               | 0.64               | 0.64               |  |  |
| Fan HP                            | 1/8                | 1/8                | 1/8                |  |  |
| Fan Dia (inches)                  | 23.02 — 1          | 23.02              | 23.02              |  |  |
| Coil                              | SPINE FIN™         | SPINE FIN™         | SPINE FIN™         |  |  |
| Refrigerant R-410A                | 4 LBS., 15 OZ      | 5LBS., 3 OZ        | 6 LBS., 7 OZ       |  |  |
| LINE SIZE — IN. O.D. GAS (c)      | 3/4                | 3/4                | 3/4                |  |  |
| LINE SIZE — IN. O.D. LIQ.         | 3/8                | 3/8                | 3/8                |  |  |
| Charge Spec. Subcooling           | 8°F                | 8°F                | 8°F                |  |  |
| Dimensions H x W X D Crated (IN.) | 34 x 30.1 x 33     | 34 x 30.1 x 33     | 42 x 30.1 x 33     |  |  |
| Weight — Shipping (lbs.)          | 189                | 190                | 220                |  |  |
| Weight — Net (lbs.)               | 161                | 162                | 184                |  |  |
| Optional Accessories:             |                    | 1                  |                    |  |  |
| Anti-short Cycle Timer            | TAYASCT501A        | TAYASCT501A        | TAYASCT501A        |  |  |
| Evaporator Defrost Control        | AY28X079           | AY28X079           | AY28X079           |  |  |
| Rubber Isolator Kit               | BAYISLT101         | BAYISLT101         | BAYISLT101         |  |  |
| Extreme Condition Mount Kit       | BAYECMT023         | BAYECMT023         | BAYECMT023         |  |  |
| Start Kit                         | BAYKSKT263         | BAYKSKT263         | BAYKSKT263         |  |  |
| Crankcase Heater Kit              | BAYCCHT302         | BAYCCHT302         | BAYCCHT302         |  |  |
| Seacoast Kit                      | BAYSEAC001         | BAYSEAC001         | BAYSEAC001         |  |  |
| Low Ambient Kit                   | BAYLOAM103         | BAYLOAM103         | BAYLOAM103         |  |  |
| Refrigerant Lineset (d)           | TAYREFLN7*         | TAYREFLN7*         | TAYREFLN7*         |  |  |
| Service Valve Panel Cover         | TAYSVPANL0032AA    | TAYSVPANL0032AA    | TAYSVPANL0044AA    |  |  |

<sup>(</sup>a) Certified in accordance with the Unitary Air-conditioner equipment certification program which is based on AHRI standard

 <sup>(</sup>b) Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.
 (c) Standard line lengths — 60', Standard lift — 60' Suction and Liquid line. For Greater lengths and lifts refer to refrigerant piping software Pub#32–3312–0\* (\* denotes latest revision)..
 (d) \* = 15, 20, 25, 30, 40 and 50 foot lineset available.



## **Product Specifications**

| Model No. (a)                     | 4TTR6036J1000A     | 4TTR6042J1000A     | 4TTR6048J1000A     |  |
|-----------------------------------|--------------------|--------------------|--------------------|--|
| POWER CONNS. — V/PH/HZ (b)        | 208/230/1/60       | 208/230/1/60       | 208/230/1/60       |  |
| MIN. BRCH. CIR. AMPACITY          | 18                 | 21                 | 24                 |  |
| BR. CIR. PROT. RTG. — MAX. (AMPS) | 30                 | 35                 | 40                 |  |
| COMPRESSOR                        | CLIMATUFF®- SCROLL | CLIMATUFF®- SCROLL | CLIMATUFF®- SCROLL |  |
| RL AMPS — LR AMPS                 | 13.6 — 79          | 16.7— 109          | 18.5 — 124         |  |
| Outdoor Fan FL AMPS               | 0.77               | 0.64               | 0.93               |  |
| Fan HP                            | 1/8                | 1/8                | 1/5                |  |
| Fan Dia (inches)                  | 24                 | 27.5               | 27.5               |  |
| Coil                              | SPINE FIN™         | SPINE FIN™         | SPINE FIN™         |  |
| Refrigerant R-410A                | 7 LBS., 11 OZ      | 8 LBS., 10 OZ      | 8 LBS., 10 OZ      |  |
| LINE SIZE — IN. O.D. GAS (c)      | 7/8                | 7/8                | 7/8                |  |
| LINE SIZE — IN. O.D. LIQ.         | 3/8                | 3/8                | 3/8                |  |
| Charge Spec. Subcooling           | 8°F                | 8°F                | 8°F                |  |
| Dimensions H x W X D Crated (IN.) | 42 x 35.1 x 38.7   | 50.4 x 35.1 x 38.7 | 50.4 x 35.1 x 38.7 |  |
| Weight — Shipping (lbs.)          | 246                | 302                | 306                |  |
| Weight — Net (lbs.)               | 212                | 252                | 256                |  |
| Optional Accessories:             |                    |                    | 1                  |  |
| Anti-short Cycle Timer            | TAYASCT501A        | TAYASCT501A        | TAYASCT501A        |  |
| Evaporator Defrost Control        | AY28X079           | AY28X079           | AY28X079           |  |
| Rubber Isolator Kit               | BAYISLT101         | BAYISLT101         | BAYISLT101         |  |
| Extreme Condition Mount Kit       | BAYECMT004         | BAYECMT004         | BAYECMT004         |  |
| Start Kit                         | BAYKSKT263         | BAYKSKT263         | BAYKSKT263         |  |
| Crankcase Heater Kit              | BAYCCHT302         | BAYCCHT302         | BAYCCHT302         |  |
| Seacoast Kit                      | BAYSEAC001         | BAYSEAC001         | BAYSEAC001         |  |
| Low Ambient Kit                   | BAYLOAM103         | BAYLOAM103         | BAYLOAM103         |  |
| Refrigerant Lineset (d)           | TAYREFLN3*         | TAYREFLN3*         | TAYREFLN3*         |  |
| Service Valve Panel Cover         | TAYSVPANL0044AA    | TAYSVPANL0046AA    | TAYSVPANL0046AA    |  |
|                                   |                    |                    |                    |  |

<sup>(</sup>a) Certified in accordance with the Unitary Air-conditioner equipment certification program which is based on AHRI standard

 <sup>(</sup>a) Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.
 (b) Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.
 (c) Standard line lengths — 60', Standard lift — 60' Suction and Liquid line. For Greater lengths and lifts refer to refrigerant piping software Pub#32-3312-0\* (\* denotes latest revision)..
 (d) \* = 15, 20, 25, 30, 40 and 50 foot lineset available.



### **Product Specifications**

| Model No. (a)                     | 4TTR6049J1000A     | 4TTR6060J1000A     | 4TTR6061C1000A     |  |
|-----------------------------------|--------------------|--------------------|--------------------|--|
| POWER CONNS. — V/PH/HZ (b)        | 208/230/1/60       | 208/230/1/60       | 208/230/1/60       |  |
|                                   |                    |                    |                    |  |
| MIN. BRCH. CIR. AMPACITY          | 26                 | 32                 | 32                 |  |
| BR. CIR. PROT. RTG. — MAX. (AMPS) | 40                 | 50                 | 50                 |  |
| COMPRESSOR                        | CLIMATUFF®- SCROLL | CLIMATUFF®- SCROLL | CLIMATUFF®- SCROLL |  |
| RL AMPS — LR AMPS                 | 18.5 — 124         | 23.7 — 152.5       | 23.7 — 152.5       |  |
| Outdoor Fan FL AMPS               | 2.80               | 1.05               | 1.05               |  |
| Fan HP                            | 1/3                | 1/5                | 1/5                |  |
| Fan Dia (inches)                  | 27.5               | 27.5               | 27.6               |  |
| Coil                              | SPINE FIN™         | SPINE FIN™         | SPINE FIN™         |  |
| Refrigerant R-410A                | 10 LBS., 3 OZ      | 9 LBS., 13 OZ      | 10 LBS., 15 OZ     |  |
| LINE SIZE — IN. O.D. GAS (c)      | 7/8                | 1-1/8              | 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.) | 50.4 x 35.1 x 38.7 | 50.4 x 35.1 x 38.7 | 50.4 x 35.1 x 38.7 |  |
| Weight — Shipping (lbs.)          | 322                | 327                | 327                |  |
| Weight — Net (lbs.)               | 272                | 277                | 277                |  |
| Optional Accessories:             |                    |                    |                    |  |
| Anti-short Cycle Timer            | TAYASCT501A        | TAYASCT501A        | TAYASCT501A        |  |
| Evaporator Defrost Control        | AY28X079           | AY28X079           | AY28X079           |  |
| Rubber Isolator Kit               | BAYISLT101         | BAYISLT101         | BAYISLT101         |  |
| Extreme Condition Mount Kit       | BAYECMT004         | BAYECMT004         | BAYECMT004         |  |
| Start Kit                         | BAYKSKT263         | BAYKSKT263         | BAYKSKT263         |  |
| Crankcase Heater Kit              | BAYCCHT302         | BAYCCHT302         | BAYCCHT302         |  |
| Seacoast Kit                      | BAYSEAC001         | BAYSEAC001         | BAYSEAC001         |  |
| Low Ambient Kit                   | BAYLOAM103         | BAYLOAM103         | BAYLOAM103         |  |
| Refrigerant Lineset (d)           | TAYREFLN3*         | TAYREFLN3*         | TAYREFLN3*         |  |
| Service Valve Panel Cover         | TAYSVPANL0046AA    | TAYSVPANL0046AA    | TAYSVPANL0046AA    |  |
| Service Valve Panel Cover         | TAYSVPANL0046AA    | TAYSVPANL0046AA    | TAYSVPANL0046AA    |  |

<sup>(</sup>a) Certified in accordance with the Unitary Air-conditioner equipment certification program which is based on AHRI standard

 <sup>(</sup>a) Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.
 (b) Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.
 (c) Standard line lengths — 60', Standard lift — 60' Suction and Liquid line. For Greater lengths and lifts refer to refrigerant piping software Pub#32–3312–0\* (\* denotes latest revision)..
 (d) \* = 15, 20, 25, 30, 40 and 50 foot lineset available.



#### **Sound Power Level**

| MODEL     | A-Weighted<br>Sound<br>Power Level<br>[dB(A)] | Full Octave Sound Power(dB) |           |           |           |            |            |            |            |
|-----------|---|-----------------------------|-----------|-----------|-----------|------------|------------|------------|------------|
|           |   | 63<br>Hz*                   | 125<br>Hz | 250<br>Hz | 500<br>Hz | 1000<br>Hz | 2000<br>Hz | 4000<br>Hz | 8000<br>Hz |
| 4TTR6018J | 73  | 79                          | 69        | 67        | 70        | 70         | 64         | 59         | 53         |
| 4TTR6024J | 73  | 79                          | 69        | 67        | 70        | 70         | 64         | 59         | 53         |
| 4TTR6030J | 73  | 79                          | 69        | 67        | 70        | 70         | 64         | 59         | 53         |
| 4TTR6036J | 71  | 78                          | 72        | 69        | 68        | 66         | 61         | 58         | 53         |
| 4TTR6042J | 72  | 81                          | 75        | 71        | 70        | 68         | 63         | 58         | 53         |
| 4TTR6048J | 72  | 81                          | 75        | 71        | 70        | 68         | 63         | 58         | 53         |
| 4TTR6049J | 72  | 81                          | 75        | 71        | 70        | 68         | 63         | 58         | 53         |
| 4TTR6060J | 72  | 81                          | 75        | 71        | 70        | 68         | 63         | 58         | 53         |
| 4TTR6061C | 74  | 68                          | 56        | 63        | 73        | 69         | 64         | 59         | 51         |

Note: Rated in accordance with AHRI Standard 270–2008

<sup>\*</sup>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.

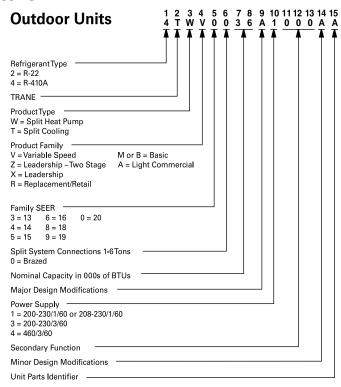
### **AHRI Standard Capacity Rating Conditions**

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.
- 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 determiend with the unit in cooling operations.) Standard Noise Rating number is at 95°F outdoor air.

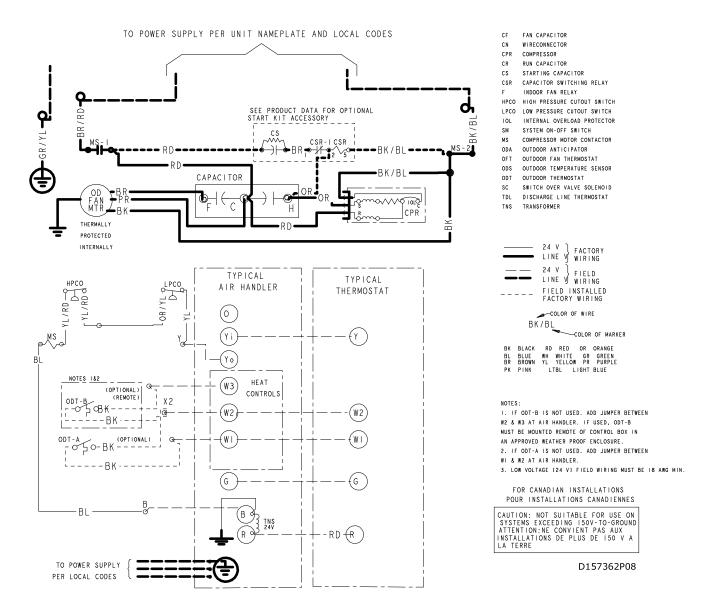
### **Model Nomenclature**





# **Schematic Diagrams**

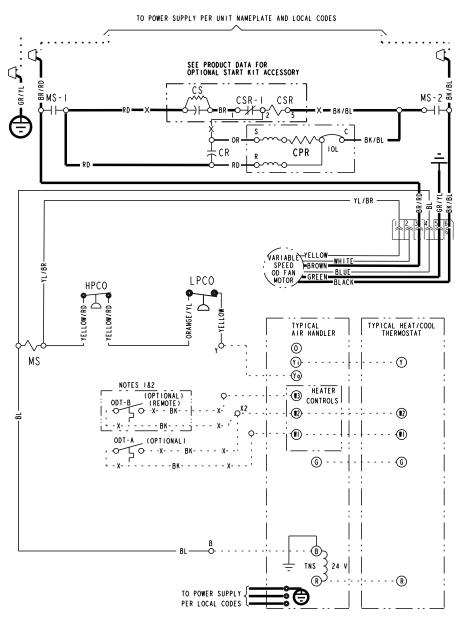
Figure 1. 018 — 048 Models





### Schematic Diagrams

#### 049 & 061 Models



CA COOLING ANTICIPATOR
CBS COIL BOTTOM SENSOR
CF FAN CAPACITOR
CN WIRE CONNECTOR
CR WIRE CONNECTOR
CR RUN CAPACITOR
CS TARTING CAPACITOR
CSR CAPACITOR SWITCHING RELAY
DFC DEFROST CONTROL
F INDOOR FAN RELAY
HA HEATING ANTICIPATOR
HPCO HIGH PRESSURE CUIDUIT SW.
IOL INTERNAL OVERLOAD PROTECTOR
ACR A/C RECTIFIER
LPCO LOW PRESSURE CUIDUIT SW.
MSC COMPRESSOR MOTOR CONTACTOR
OUTDOOR ANTICIPATOR
OFT OUTDOOR FAN THERMOSTAT
DS OUTDOOR TEMPERATURE SENSOR
ODT OUTDOOR TEMPERATURE
SENSOR
DT OUTDOOR TEMPERATURE
SENSOR
DT OUTDOOR TEMPERATURE
SENSOR
DT OUTDOOR TEMPERATURE
SENSOR
THE RESISTANCE HEAT SWITCH
SC SWITCHOVER VALVE SOLENOID
SWITCHOVER VALVE SOLENOID
SN SYSTEM ON-OFF "SWITCH
DL DISCHARGE LINE THERMOSTAT
INS TRANSFORMER
TS HEATING-COOLING THERMOSTAT
TSH HEATING-COOLING THERMOSTAT
TSH HEATING-COOLING THERMOSTAT
TSH HEATING-COOLING THERMOSTAT

- COLOR OF WIRE BK/BL BLACK WINE ...
COLOR OF MARKER BLACK WIRE WITH BLUE MARKER

OR ORANGE BLACK YELLOW BLUE RD RED GR GREEN BROWN WH WHITE PR PURPLE

#### NOTES:

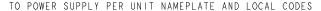
- IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.
  IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF
- CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN WI & W2 AT AIR HANDLER. LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

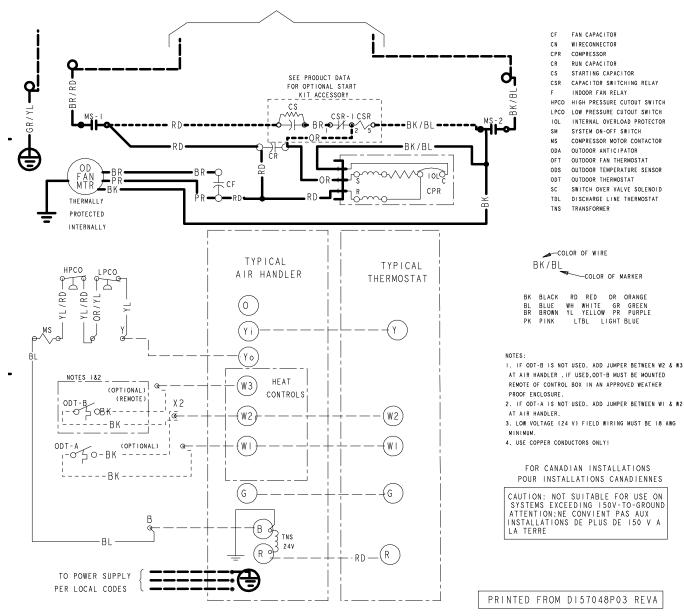
#### FOR CANADIAN INSTALLATIONS POUR INSTALLATIONS CANADIENNES

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.

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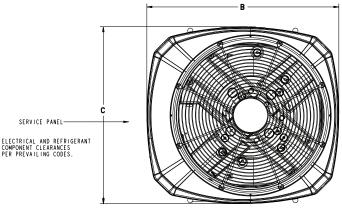
Figure 2. 060 Models



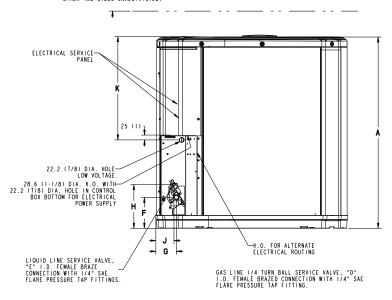




# **Outline Drawing**



TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR AT LEAST 1524 (5 FET) ABOVE UNIT. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT, AND SHOULD BE AT LEAST 305 (12") FROM WALL AND ALL SURROUNDING S



| Model     | Base | Α                | В               | С               | D   | E   | F              | G             | Н              | J             | K           |
|-----------|------|------------------|-----------------|-----------------|-----|-----|----------------|---------------|----------------|---------------|-------------|
| 4TTR6018J | 3    | 730<br>(28-3/4)  | 829<br>(32-5/8) | 756<br>(29-3/4) | 3/4 | 3/8 | 127<br>(5)     | 76<br>(3)     | 197<br>(7-3/4) | 60<br>(2-3/8) | 508<br>(20) |
| 4TTR6024J | 3    | 730<br>(28-3/4)  | 829<br>(32-5/8) | 756<br>(29-3/4) | 3/4 | 3/8 | 127<br>(5)     | 76<br>(3)     | 197<br>(7-3/4) | 60<br>(2-3/8) | 508<br>(20) |
| 4TTR6030J | 3    | 933<br>(36-3/4)  | 829<br>(32-5/8) | 756<br>(29-3/4) | 3/4 | 3/8 | 143<br>(5-5/8) | 92<br>(3-5/8) | 210<br>(8-1/4) | 79<br>(3-1/8) | 508<br>(20) |
| 4TTR6036J | 4    | 943<br>(37-1/8)  | 946<br>(37-1/4) | 870<br>(34-1/4) | 3/4 | 3/8 | 143<br>(5-5/8) | 98<br>(3-7/8) | 219<br>(8-5/8) | 86<br>(3-3/8) | 508<br>(20) |
| 4TTR6042J | 4    | 1147<br>(45-1/8) | 946<br>(37-1/4) | 870<br>(34-1/4) | 7/8 | 3/8 | 152<br>(6)     | 98<br>(3-7/8) | 219<br>(8-5/8) | 86<br>(3-3/8) | 813<br>(32) |
| 4TTR6048J | 4    | 1147<br>(45-1/8) | 946<br>(37-1/4) | 870<br>(34-1/4) | 7/8 | 3/8 | 152<br>(6)     | 98<br>(3-7/8) | 219<br>(8-5/8) | 86<br>(3-3/8) | 813<br>(32) |
| 4TTR6049J | 4    | 1147<br>(45-1/8) | 946<br>(37-1/4) | 870<br>(34-1/4) | 7/8 | 3/8 | 152<br>(6)     | 98<br>(3-7/8) | 219<br>(8-5/8) | 86<br>(3-3/8) | 813<br>(32) |
| 4TTR6060J | 4    | 1147<br>(45-1/8) | 946<br>(37-1/4) | 870<br>(34-1/4) | 7/8 | 3/8 | 152<br>(6)     | 98<br>(3-7/8) | 219<br>(8-5/8) | 86<br>(3-3/8) | 813<br>(32) |
| 4TTR6061C | 4    | 1147<br>(45-1/8) | 946<br>(37-1/4) | 870<br>(34-1/4) | 7/8 | 3/8 | 152<br>(6)     | 98<br>(3-7/8) | 219<br>(8-5/8) | 86<br>(3-3/8) | 813<br>(32) |



## **Mechanical Specification Options**

#### General

The Outdoor Units are 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 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 on all louvered panels and the fan top panel. The corner panels are prepainted. All panels are subjected to our 1,000 hour salt spray test. The base is made of a CMBP-G30 weatherproof material to resist corrosion.

### **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 supplied liquid line drier is standard. Some models may require field installation.

#### Compressor

The compressor features internal over temperature, 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 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.

**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.



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