Product Data

Split System Cooling

4TTR3018H1000N
4TTR3024H1000N
4TTR3030H1000N
4TTR3036H1000N
4TTR3042E1000N
4TTR3043A1000N
4TTR3048E1000P
4TTR3048E1000N
4TTR3049A1000N
4TTR3060E1000N
TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR AT LEAST 1524 (5 FEET) ABOVE UNIT. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER DOES NOT FLOW DIRECTLY ON UNIT. AND SHOULD BE AT LEAST 305 (12") FROM WALL AND ALL SURROUNDING SHRUBBERY ON TWO SIDES. OTHER TWO SIDES UNRESTRICTED.

From Dwg. D152898

**FIG. 1**

K.O. FOR ALTERNATE ELECTRICAL ROUTING
GAS LINE 1/4 TURN BALL SERVICE VALVE,
"F" I.D. FEMALE BRAZED CONNECTION WITH 1/4" SAE FLARE PRESSURE TAP FITTING.

<table>
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<tr>
<th>Model</th>
<th>Base</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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## Product Specifications

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<tr>
<th>Model No. (a)</th>
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<td>Coil</td>
<td>SPINE FIN™</td>
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<td>SPINE FIN™</td>
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<tr>
<td>Refrigerant R-410A</td>
<td>5 LBS., 11 OZ</td>
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<td>LINE SIZE — IN. O.D. LIQ. (c)</td>
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<td>Charge Spec. Subcooling</td>
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<td>10°F</td>
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<tr>
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### Optional Accessories:

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<tr>
<td>Anti-short Cycle Timer</td>
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<td>TAYASCT501A</td>
<td>TAYASCT501A</td>
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<tr>
<td>Evaporator Defrost Control</td>
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<td>Start Kit</td>
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<td>Seacoast Kit</td>
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<td>Low Ambient Kit</td>
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<td>TAYREFLN950</td>
<td>TAYREFLN7*</td>
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<tr>
<td>Service Valve Panel Cover</td>
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(a) Certified in accordance with the Unitary Air-conditioner equipment certification program which is based on AHRI standard 210/240.
(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

<table>
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<td>CLIMATUFF® SCROLL</td>
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<td>1/8</td>
<td>1/5</td>
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<td>23.0</td>
<td>23</td>
<td>27.5</td>
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<tr>
<td>Coil</td>
<td>SPINE FIN™</td>
<td>SPINE FIN™</td>
<td>SPINE FIN™</td>
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<tr>
<td>Refrigerant R-410A</td>
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<td>5 LBS., 2 OZ</td>
<td>6 LBS., 7 OZ</td>
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<td>LINE SIZE — IN. O.D. GAS</td>
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<td>LINE SIZE — IN. O.D. LIQ.</td>
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<td>3/8</td>
<td>3/8</td>
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<td>Charge Spec. Subcooling</td>
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<td>10°F</td>
<td>12°F</td>
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<tr>
<td>Dimensions H x W X D Crated (IN.)</td>
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<td>34 x 30.1 x 33</td>
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<td>Weight — Net (lbs.)</td>
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### 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: BAYECMT023, BAYECMT004, BAYECMT004
- Start Kit: BAYKSKT263, BAYKSKT263, BAYKSKT263
- Crankcase Heater Kit: BAYCCHT302, BAYCCHT301, BAYCCHT301
- Seacoast Kit: BAYSEAC001, BAYSEAC001, BAYSEAC001
- Low Ambient Kit: BAYLOAM103, BAYLOAM103, BAYLOAM103
- Refrigerant Lineset *(d)*: TAYREFLN7*, TAYREFLN7*, TAYREFLN3*
- Service Valve Panel Cover: TAYSVPAVL0032AA, TAYSVPAVL0032AA, TAYSVPAVL3343AA

*(a) Certified in accordance with the Unitary Air-conditioner equipment certification program which is based on AHRI standard 210/240.*

*(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.*
Model No. (a) 4TTR3048E1000N/P 4TTR3049A1000N 4TTR3060E1000N
POWER CONNS. — V/PH/HZ (b) 208/230/1/60 208/230/1/60 208/230/1/60
MIN. BRCH. CIR. AMPACITY 28 28 27
BR. CIR. PROT. RTG. — MAX. (AMPS) 45 45 45
COMPRESSOR — CLIMATUFF® SCROLL CLIMATUFF® SCROLL CLIMATUFF® SCROLL
RL AMPS — LR AMPS 21.8 — 117 21.8 — 117 20.8 — 127.1
Outdoor Fan FL AMPS 0.93 1.05 1.05
Fan HP 1/5 1/5 1/5
Fan Dia (inches) 23 23 27.5
Coil SPINE FIN™ SPINE FIN™ SPINE FIN™
Refrigerant R-410A 6 LBS., 7 OZ 6 LBS., 7 OZ 7 LBS., 10 OZ
LINE SIZE — IN. O.D. GAS (c) 7/8 7/8 7/8
LINE SIZE — IN. O.D. LIQ. (c) 3/8 3/8 3/8
Charge Spec. Subcooling 10°F 10°F 10°F
Dimensions H x W x D Crated (IN.) 42 x 30.1 x 33 42 x 30.1 x 33 42.4 x 35.1 x 38.7
Weight — Shipping (lbs.) 233 212 246
Weight — Net (lbs.) 197 189 211

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 BAYCCHT301 BAYCCHT301 BAYCCHT301
Seacoast Kit BAYSEAC001 BAYSEAC001 BAYSEAC001
Low Ambient Kit BAYLOAM103 BAYLOAM103 BAYLOAM103
Refrigerant Line Set (d) TAYREFLN3* TAYREFLN3* TAYREFLN3*
Service Valve Panel Cover TAYSVPLN0044AA TAYSVPLN0044AA TAYSVPLN0044AA

Note: Rated in accordance with AHRI Standard 270–2008 For Reference Only

Sound Power Level

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Note: Rated in accordance with AHRI Standard 270–2008 For Reference Only

(a) Certified in accordance with the Unitary Air-conditioner equipment certification program which is based on AHRI standard 210/240.
(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 lift refer to refrigerant piping software Pub#32–3312–0* (* denotes latest revision).
(d) * = 15, 20, 25, 30, 40 and 50 foot line set available.
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.
2. 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 determined with the unit in cooling operations.) Standard Noise Rating number is at 95°F outdoor air.

**Model Nomenclature**

Outdoor Units

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

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

- **Product Family**
  - V = Variable Speed
  - Z = Leadership – Two Stage
  - X = Leadership
  - R = Replacement/Retail

- **Family SEER**
  - 3 = 13
  - 4 = 14
  - 5 = 15
  - 6 = 16
  - 8 = 18
  - 9 = 19

- **Split System Connections**
  - 0 = Brazed
  - 1-6 Tons

- **Nominal Capacity in 000s of BTUs**

- **Major Design Modifications**

- **Power Supply**
  - 1 = 200-208/1/60 or 208-230/1/60
  - 3 = 200-230/3/60
  - 4 = 460/3/60

- **Secondary Function**

- **Minor Design Modifications**

- **Unit Parts Identifier**

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Figure 2. 4.0 — 5.0 Ton Models
NOTES:
1. IF OXY IS NOT BEC, ADD JUMPER BETWEEN 92 & 93 AT AIR HANDLER. IF BEC, OXY IS
   MUST BE INSTALLED REMOTE OF CONTROL BOX IN AN APPROVED HEATING PROOF ENCLOSURE.
2. IF OXY IS NOT BEC, ADD JUMPER BETWEEN 91 & 92 AT AIR HANDLER.
3. LOW VOLTAGE (24 V) FIELD WIRING MUST BE 18 MSG MINIMUM.
4. USE COPPER CONDUCTORS ONLY.

LEGEND

- 24 V
- LINE 1 WIRING
- 24 V
- LINE 1 WIRING
- 24 V
- FIELD INSTALLED
- LINE 2 FACTORY WIRING
- MAGNETIC COIL
- GROUND
- JUNCTION
- CAPACITOR
- VOLTAGE PLUS OR GROUND
- TERMINAL
- TERMINAL BLOCK/BOARD

RELAY CONTACT (H, D)
RELAY CONTACT (H, C)
TEMPERATURE SWITCH
LINE TO REACTOR PROTECTION
PRESSURE ACTIVATED SWITCH
RESISTOR OR HEATING ELEMENT
MOTOR BY MOTOR
NOTE FOR INSTALLATION

Figure 3. 4.0 — 5.0 Ton Models
Mechanical Specification Options

General
The outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit, ten (10) feet of tested connecting line, and the smallest rated indoor evaporative coil match. 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. The corner panels are prepainted. All panels are subjected to our 1,000 hour salt spray test.

Refrigerant Controls
Refrigeration system controls include condenser fan, compressor contactor and low and high pressure switches. A factory supplied, field installed liquid line drier is standard.

Compressor
The compressor features internal over temperature and pressure protection. 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.
Ingersoll Rand (NYSE: IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands — including Club Car®, Ingersoll Rand®, Thermo King® and Trane® — work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are a global business committed to a world of sustainable progress and enduring results.

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