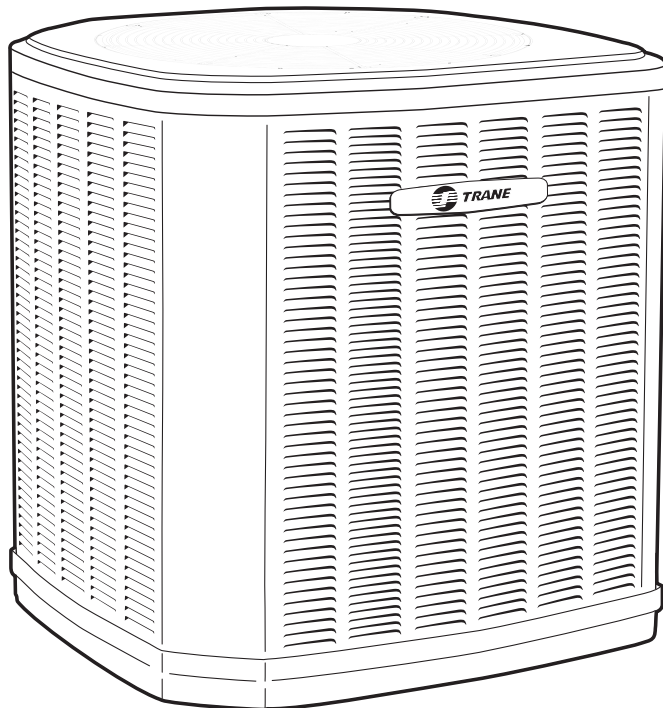




Split System Cooling Product Data

XR17
4TTR7048B
4 Ton



PUB. NO. 22-1942-1B-EN



Features and Benefits

- **CLIMATUFF™** 2-stage scroll compressor
- Efficiency up to **18.0 SEER**
- All Aluminum **SPINE FIN™** coil
- **DURATUFF™** weather proof and rust proof base
- **COMFORT "R"™** mode approved for better comfort indoors
- **QUICK-SESS™** cabinet, service access and refrigerant connections with full coil protection
- **WEATHERGUARD™** fasteners
- Glossy corrosion resistant finish tarpaulin gray cabinet with anthracite gray top
- Internal compressor high/low pressure & temperature protection
- Liquid line filter/drier
- Low sound with advanced PSC fan motor
- Service valve cover
- R-410A refrigerant
- From 70 to 100% capacity modulation
- 100% run test in the factory
- Low ambient cooling to 55° as shipped
- **Extended warranties available**

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Accessory Description and Usage	5
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General Data

Product Specifications

Model No. ①	4TTR7048B1000A
Electrical Data V/Ph/Hz ②	208/230/1/60
Min Cir Ampacity	28
Max Fuse Size (Amps)	45
Compressor	CLIMATUFF® - SCROLL
No. Compress. – No. Stages	1-2
RL AMPS - LR AMPS	20.4 - 122
Outdoor Fan FL Amps	2.8
Fan HP	1/3
Fan Dia (inches)	27.6
Coil	Spine Fin™
Refrigerant R-410A	13/3-LB/OZ
Line Size - (in.) O.D. Gas ③	7/8
Line Size - (in.) O.D. Liquid ③	3/8
Dimensions H x W x D (Crated)	51.0 x 35.1 x 38.7
Weight - Shipping	296
Weight - Net	259
Start Components	NO
Sound Enclosure	NO
Compressor Sump Heat	NO
Optional Accessories: ④	
Rubber Isolator Kit	BAYISLT101
Snow Leg - Base & Cap 4" High	BAYLEGS002
Snow Leg - 4" Extension	BAYLEGS003
Hard Start Kit Scroll	BAYKSKT266
Crankcase Heater Kit	BAYCCHT301
Extreme Condition Mounting Kit	BAYECMT004
Vertical Discharge Air Kit Base 4	BAYVDTA004
Auto Charge Solenoid Kit	BAYCAKT001
Refrigerant Lineset ⑤	TAYREFLN3*

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 - 25' Suction and Liquid line.
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.

Accessory Description and Usage

Rubber Isolators — 5 rubber donuts to isolate condensing unit from mounting frame or pad. Use on any application where sound transmission needs to be minimized.

Extreme Conditions Mounting 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 rooftops, etc.

Low Ambient Cooling — For low ambient cooling below 55° see Application Guide APP-APG013-EN.

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.

Sound Power Level

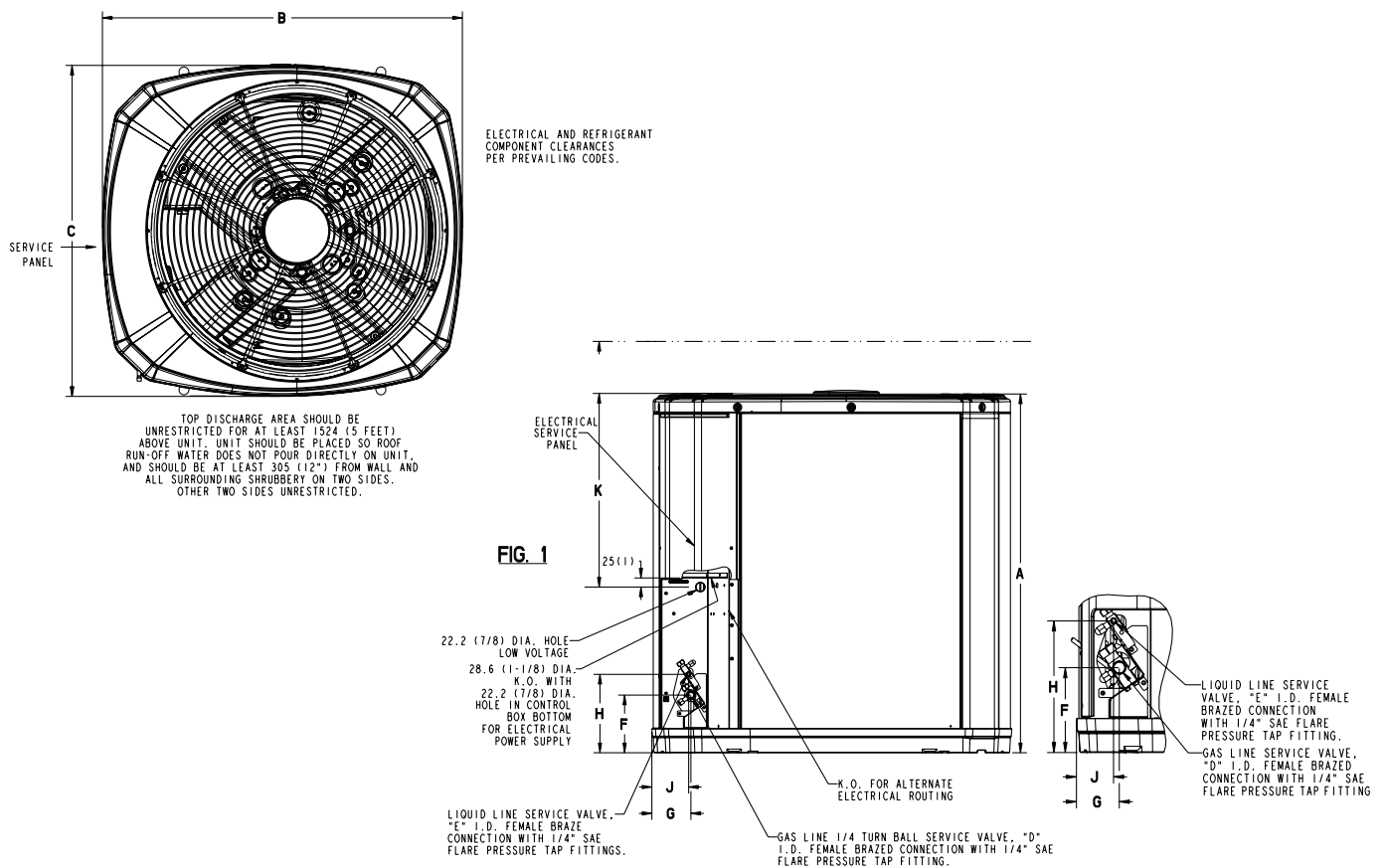
Model	A-Weighted Sound Power Level [dB(A)]	Full Octave Sound Power [dB]							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
4TTR7048B	73	70	67	68	66	63	56	53	49

Note: Rated in accordance with AHRI Standard 270-2008

Dimensions

4TTR7 Outline Drawing

Note: All dimensions are in MM (Inches).

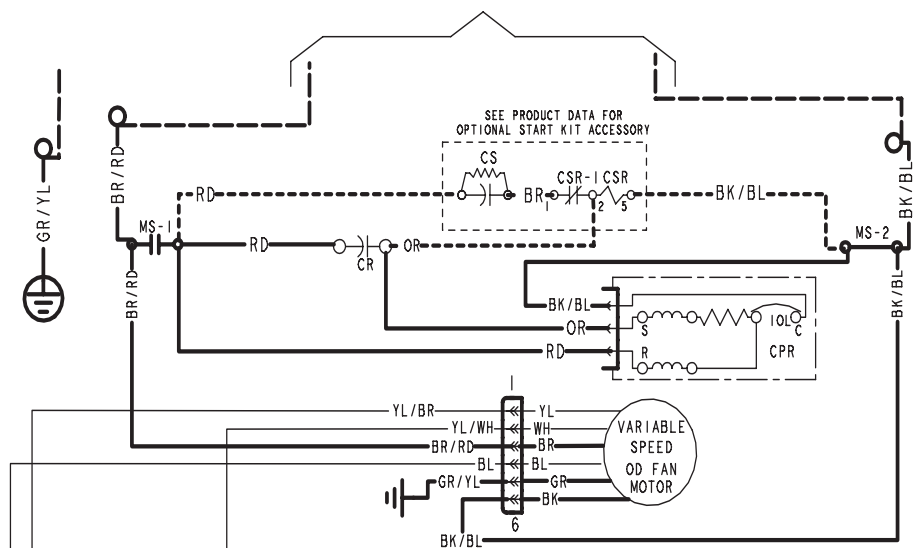


MODELS	BASE	A	B	C	D	E	F	G	H	J	K
4TTR7048B	4	1147 (45 1/8)	946 (37-1/4)	870 (34-1/4)	7/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	813 (32)

Electrical Data

Schematic Diagram

TO POWER SUPPLY PER UNIT NAMEPLATE AND LOCAL CODES



ACR A/C RECTIFIER
CF FAN CAPACITOR
CN WIRECONNECTOR
CPR COMPRESSOR
CR RUN CAPACITOR
CS STARTING CAPACITOR
CSR CAPACITOR SWITCHING RELAY
F INDOOR FAN RELAY
HPCO HIGH PRESSURE CUTOFF SWITCH
LPCO LOW PRESSURE CUTOFF SWITCH
IOL INTERNAL OVERLOAD PROTECTOR
SM SYSTEM ON-OFF SWITCH
MS COMPRESSOR MOTOR CONTACTOR
ODA OUTDOOR ANTICIPATOR
OFT OUTDOOR FAN THERMOSTAT
ODS OUTDOOR TEMPERATURE SENSOR
ODT OUTDOOR THERMOSTAT
SC SWITCH OVER VALVE SOLENOID
TDL DISCHARGE LINE THERMOSTAT
TDR TIME DELAY RELAY
TNS TRANSFORMER

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

COLOR OF WIRE

BK/BL

COLOR OF MARKER

BK BLACK RD RED OR ORANGE
BL BLUE WH WHITE GR GREEN
BR BROWN YL YELLOW PR PURPLE
PK PINK LTBL LIGHT BLUE

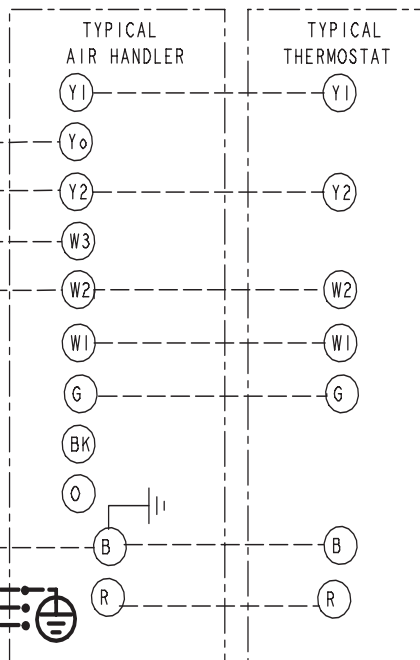
24 V } FACTORY
LINE V } WIRING
24 V } FIELD
LINE V } WIRING
FIELD INSTALLED
FACTORY WIRING

NOTES:

1. BE SURE POWER SUPPLY AGREES WITH EQUIPMENT NAMEPLATE.
2. POWER WIRING AND GROUNDING OF EQUIPMENT MUST COMPLY WITH LOCAL CODES.
3. LOW VOLTAGE WIRING TO BE NO. 18 AWG MINIMUM CONDUCTOR.
4. IF OUTDOOR THERMOSTAT (ODT) IS NOT USED, CONNECT W2 TO W3.
5. WITH Y1 ENERGIZED, INDOOR FAN IS 1ST STAGE AIRFLOW.
6. WITH Y1 AND Y2 ENERGIZED, INDOOR FAN IS 2ND STAGE AIRFLOW.
7. SEE AIR HANDLER INSTALLER GUIDE FOR DIP SWITCH CONFIGURATIONS.

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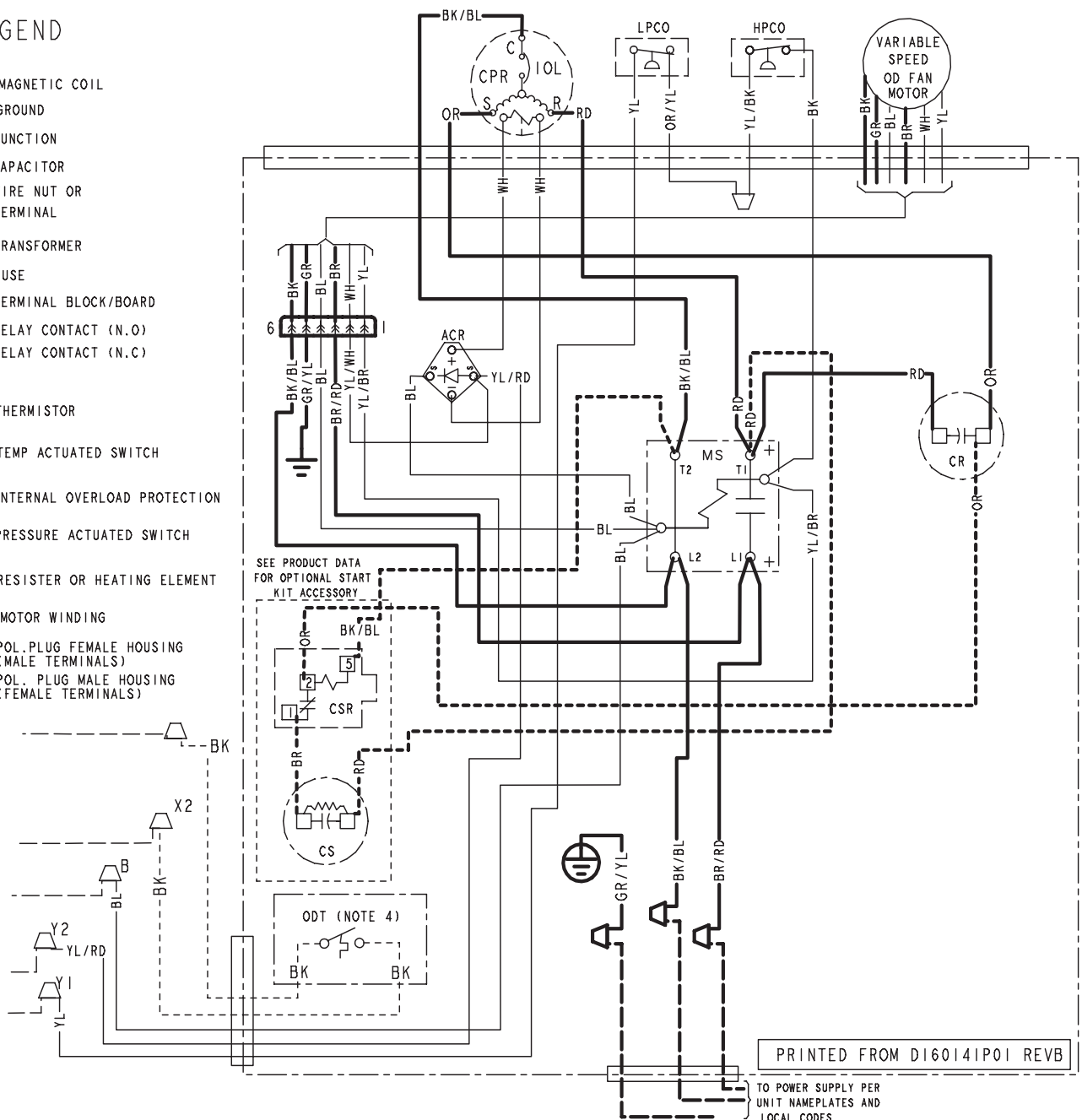
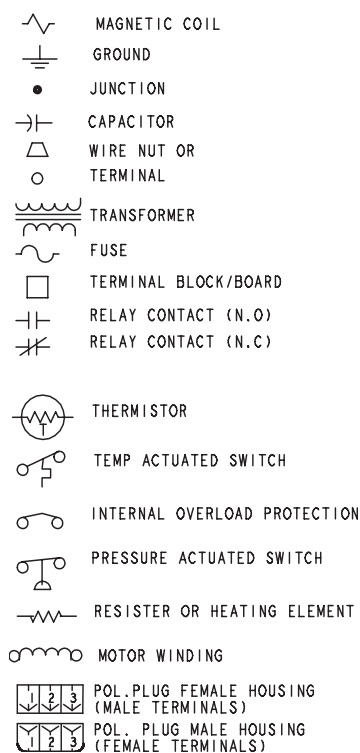
TO POWER SUPPLY
PER LOCAL CODES



Electrical Data

Wiring Diagram

LEGEND





Model Nomenclature

Outdoor Units

Refrigerant Type
4 = R-410A

TRANE

Product Type

W = Split Heat Pump
T = Split Cooling

Product Family

Z = Leadership – Two Stage
X = Leadership
R = Replacement/Retail
M or B = Basic
A = Light Commercial

Family SEER

3 = 13 6 = 16 0 = 20
4 = 14 8 = 18
5 = 15 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
3 = 200-230/3/60
4 = 460/3/60

Secondary Function

Minor Design Modifications

Unit Parts Identifier

Gas Furnaces

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

Type

E = 80% Induced Draft Standard
D = 80% Induced Draft Premium
C = 90% Condensing Standard
X = 90% Condensing Premium
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

Voltage

9 = 115 Volts / 60 Hertz / Natural Gas
A = 115 Volts / 50 Hertz / Natural Gas
C = 115 Volts / Natural Gas with Communicating System Control
F = 115 Volts / Natural Gas with Integrated Electronic Filter
D = 115 Volts / Natural Gas with Communicating System Control and Integrated Electronic Filter

Air Capacity for Cooling

Standard PSC	Variable Speed	High Efficiency
24 = 2 Tons	V3 = 3 Tons	H3 = 3 Tons
36 = 3 Tons	V4 = 4 Tons	H4 = 4 Tons
42 = 3.5 Tons	V5 = 5 Tons	H5 = 5 Tons
45 = 4 Tons		
48 = 4 Tons		
54 = 5 Tons		
60 = 5 Tons		
72 = 6 Tons		

Draft Inducer Speeds

1 = Single Speed
2 = Two Speed
V = Variable Speed

Minor Design Change

Service Digit - Not Orderable

Air Handler

Brand

T = Better
G = Good

Product Type

A = Air Handler

Convertability

M = Multi-poise 4-way
F = Upflow Front Return, 3-way
T = 3-way

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

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

Minor Design Change

Unit Parts Identifier

Heat Pump/ Cooling Coils

Refrigerant Type
4 = R-410A

Series

T = 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

General

The 4TTR7 is fully charged from the factory for matched indoor section and 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 shall be certified to UL 1995. Exterior is designed for outdoor application.

Casing

Unit casing is constructed of heavy gauge, G60 galvanized steel and painted with a weather-resistant powder paint on all louvers and panels. Corrosion and weatherproof 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® 2-stage compressor features internal over temperature and pressure protection and hermetic motor. Other features include: centrifugal oil pump and modular plugs for electrical connections.

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. For low ambient cooling below 55° see Application Guide.



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