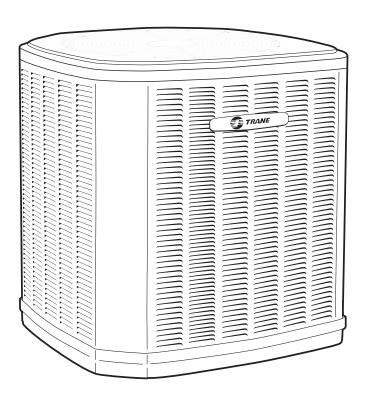


Split System Heat Pump Product Data

XR17 4TWR7

2, 3, 4 & 5 Tons





Features and Benefits

- CLIMATUFF™ 2-stage scroll compressor
- Efficiency up to 18.0 SEER and 9.5 HSPF
- 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



Contents

Features and Benefits	2	
General Data	4	
Product Specifications	4	
A-weighted Sound Power Level [dB(A)]	4	
Accessory Description and Usage	5	
AHRI Standard Capacity Rating Conditions	5	
Model Nomenclature	6	
Electrical Data	7	
Dimensions	10	
Mechanical Specifications	11	

22-1886-6B-EN

3



General Data

Product Specifications

Model No. ①	4TWR7024B1000AA	4TWR7036B1000B	4TWR7048A1000D	4TWR7060A1000C	
Electrical Data V/Ph/Hz ②	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60	
Min Cir Ampacity	15	21	28	37	
Max Fuse Size (Amps)	25	35	45	60	
Compressor	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL	
No. Compress No. Stages	1 -2	1-2	1-2	1-2	
RL AMPS - LR AMPS	11.7 - 58.3	15.3 - 83	21.2 - 104	28.8 - 152.9	
Outdoor Fan FL Amps	0.71	0.74	1.05	1.30	
Fan HP	1/8	1/8	1/5	1/4	
Fan Dia (inches)	27.6	27.87	27.6	27.6	
Coil	Spine Fin™	Spine Fin™	Spine Fin™	Spine Fin™	
Refrigerant R-410A	9/0-LB/OZ	9/0-LB/OZ	12/9-LB/OZ	13/3-LB/OZ	
Line Size - (in.) O.D. Gas ③	5/8	3/4	7/8	1-1/8	
Line Size - (in.) O.D. Liquid ③	3/8	3/8	3/8	3/8	
Dimensions H x W x D (Crated)	46.4 x 35.1 x 38.7	46.4 X 35.1 X 38.7	51.0 x 35.1 x 38.7	51.0 x 35.1 x 38.7	
Weight - Shipping	272	258	329	330	
Weight - Net	236	210	292	293	
Start Components	NO	NO	NO	NO	
Sound Enclosure	NO	NO	NO	NO	
Compressor Sump Heat	YES	YES	YES	YES	
Optional Accessories: ④					
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101	
Snow Leg - 7" High	BAYLEGS007	BAYLEGS007	BAYLEGS007	BAYLEGS007	
Snow Leg - 4" High	BAYLEGS004	BAYLEGS004	BAYLEGS004	BAYLEGS004	
Hard Start Kit Scroll	BAYKSKT263	BAYKSKT263	BAYKSKT266	BAYKSKT266	
Extreme Condition Mounting Ki	t BAYECMT004	BAYECMT004	BAYECMT004	BAYECMT004	
Vertical Discharge Air Kit Base	4 BAYVDTA003	BAYVDTA004	BAYVDTA004	BAYVDTA004	
Auto Charge Solenoid Kit	BAYCAKT001	BAYCAKT001	BAYCAKT001	BAYCAKT001	
Refrigerant Lineset ⑤	TAYREFLN9*	TAYREFLN7*	TAYREFLN3*	TAYREFLN4*	

Sound Power Level

Model	A-Weighted Sound	Full Octave Sound Power [dB]								
	Power Level [dB(A)]	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
4TWR7024B1	72	67	67	62	63	62	57	55	50	
4TWR7036B1	72	66	66	64	64	63	57	54	48	
4TWR7048A1	72	68	73	65	67	63	56	53	47	
4TWR7060A1	74	58	75	66	68	66	59	55	52	

4

Note: Rated in accordance with AHRI Standard 270-2008

Certified in accordance with the Air-Source Unitary Heat Pump Equipment certification program which is based on AHRI Standard 210/240.
 Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.
 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)

For accessory description and usage, see page 5.
 * = 15, 20, 25, 30, 40 and 50 foot lineset available.



General Data

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.

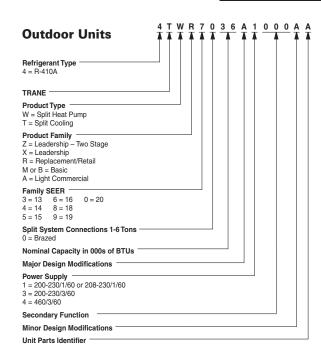
AHRI STANDARD 270 RATING CONDITIONS — (Noise rating numbers are determined with the unit in cooling operation.) Standard Noise Rating number is at 95°F outdoor air.

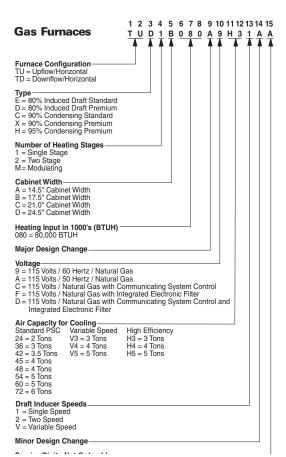


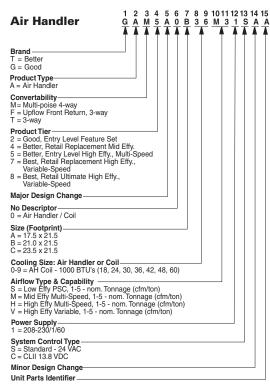


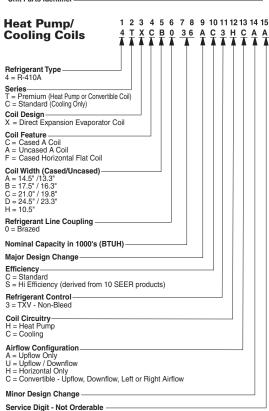


Model Nomenclature









6

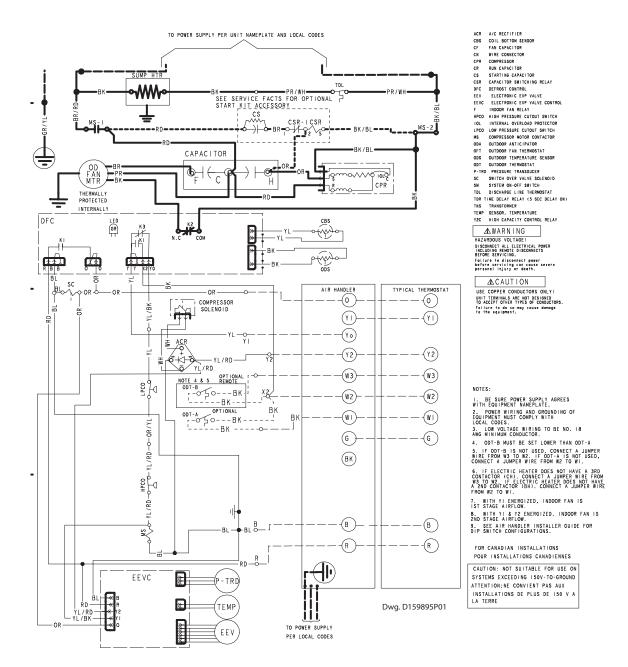


Electrical Data

Schematic Diagrams

(SEE LEGEND)

4TWR7024B, 036B



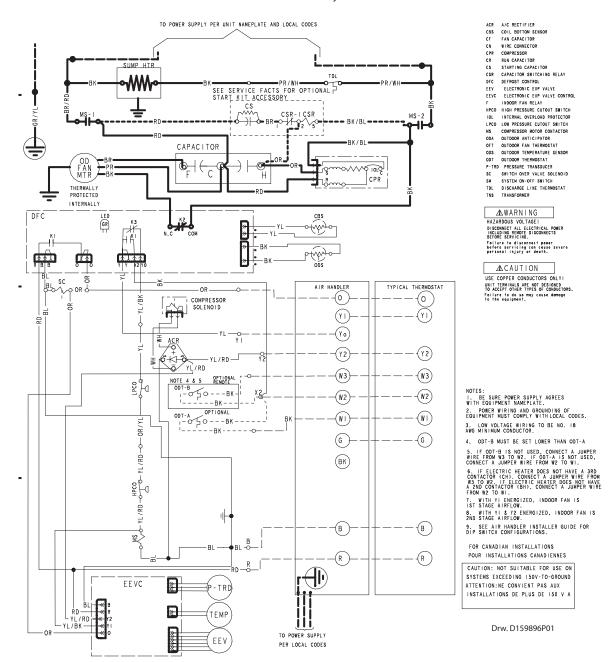


Electrical Data

Schematic Diagrams

(SEE LEGEND)

4TWR7048A, 060A



8



Electrical Data

Schematic Diagrams

LEGEND

```
COLOR OF WIRE

BK/BL BLACK WIRE WITH BLUE MARKER

COLOR OF MARKER

BK BLACK OR ORANGE YL YELLOW

BL BLUE RD RED GR GREEN

BR BROWN WH WHITE PR PURPLE
```

```
FACTORY WIRING
- - - 24 V.
- - - LINE V. }
             FIELD WIRING
GROUND
 0
      JUNCTION
      WIRE NUT OR CONNECTOR
\rightarrow\vdash
     CAPACITOR
-
      RELAY CONTACT (N.O.)
#
      RELAY CONTACT (N.C.)
(~~)
      THERMISTOR
00
      INTERNAL OVERLOAD PROTECTOR
      PRESSURE ACTUATED SWITCH
     TEMP. ACTUATED SWITCH
POL. PLUG FEMALE HOUSING (MALE TERM.)
POL. PLUG MALE HOUSING (FEMALE TERM.)
-√√ RESISTOR OR HEATING ELEMENT
OMOTOR WINDING
 O TERMINAL
```

```
CA COOLING ANTICIPATOR
CBS COIL BOTTOM SENSOR
CF FAN CAPACITOR
CN WIRE CONNECTOR
CPR COMPRESSOR
CR RUN CAPACITOR
CS STARTING CAPACITOR
CS STARTING CAPACITOR
CS CAPACITOR
CAP
```

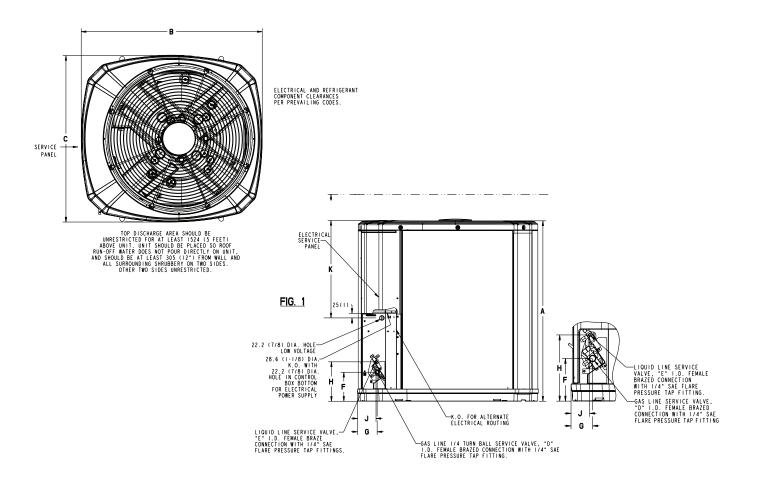
9



Dimensions

4TWR7 Outline Drawing

Note: All dimensions are in MM (Inches).



MODELS	BASE	А	В	С	D	E	F	G	н	J	К
4TWR7024B	4	1045 (41 1/8)	946 (37-1/4)	870 (34-1/4)	5/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	711 (28)
4TWR7036B	4	1045 (41 1/8)	946 (37-1/4)	870 (34-1/4)	3/4	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	711 (28)
4TWR7048A	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)
4TWR7060A	4	1147 (45 1/8)	946 (37-1/4)	870 (34-1/4)	1-1/8	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	813 (32)

Mechanical **Specifications**

General

The 4TWR7 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 DuraTuffTM 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.



