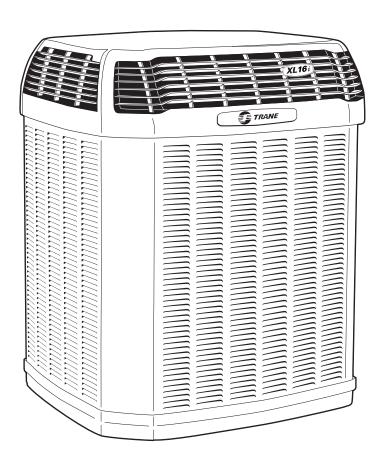


# Split System Heat Pump Product Data

**XL16i** 4TWX6024, 036, 048 & 060

2, 3, 4 & 5 Tons





# Features and Benefits

- CLIMATUFF™ 2-stage scroll compressor
- Efficiency up to 17.5 SEER and 9.0 HSPF
- All Aluminum **SPINE FIN™** coil
- WEATHERGUARD™ II top shields unit
- 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 variable speed 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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### **General Data**

### **Product Specifications**

Model No. ①	4TWX6024G1	4TWX6036E1	4TWX6048G1	4TWX6060E1	
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	22	28	45	
Max Fuse Size (Amps)	25	35	45	60	
Compressor	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL	
No. Used - No. Stages	1-2	1-2	1-2	1-2	
RL AMPS - LR AMPS	11.7 - 58.3	16.7 - 82	21.2 - 104	32.1 - 152.9	
Outdoor Fan FL Amps	0.74	0.74	1.00	2.80	
Fan HP	1/8	1/8	1/5	1/3	
Fan Dia (inches)	27.6	27.6	27.6	27.6	
Coil	Spine Fin™	Spine Fin™	Spine Fin™	Spine Fin™	
Refrigerant R-410A	10/3-LB/OZ	10/8-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)	53.4 x 35.1 x 38.7	57.4 x 35.1 x 38.7	57.4 x 35.1 x 38.7	57.4 x 35.1 x 38.7	
Weight - Shipping	305	307	360	361	
Weight - Net	257	257	310	311	
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 - Base & Cap 4" High	BAYLEGS002	BAYLEGS002	BAYLEGS002	BAYLEGS002	
Snow Leg - 4" Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003	
Hard Start Kit Scroll	BAYKSKT263	BAYKSKT260	BAYKSKT260	BAYKSKT260	
Extreme Condition Mounting Kit	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*	

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# 32-3312-0†. (†denotes latest revision)

### A-weighted Sound Power Level [dB(A)]

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MODEL	SOUND POWER LEVEL [dB(A)]	A-WEIGHTED FULL OCTAVE SOUND POWER LEVEL dB - [dB(A)]							
		63	125	250	500	1000	2000	4000	8000
4TWX6024G	72	40.4	50.8	53.7	59.9	62.2	57.9	56.1	48.4
4TWX6036E	72	39.3	49.6	55.7	60.5	62.9	57.7	54.7	47.3
4TWX6048G	72	42	57.3	56.6	64	63.3	57.2	53.5	46.2
4TWX6060E	74	31.9	58.9	57.1	64.8	66.4	59.8	55.9	51.2

Note: Rated in accordance with AHRI Standard 270-2008.

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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.



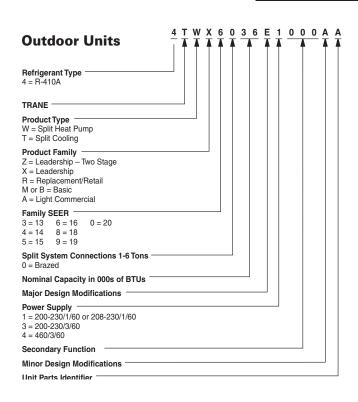


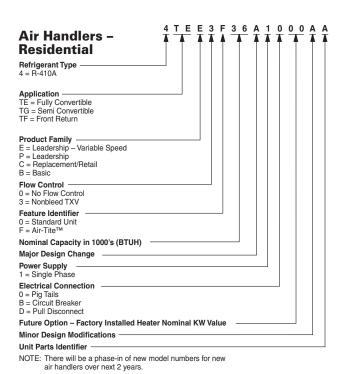
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### Model Nomenclature

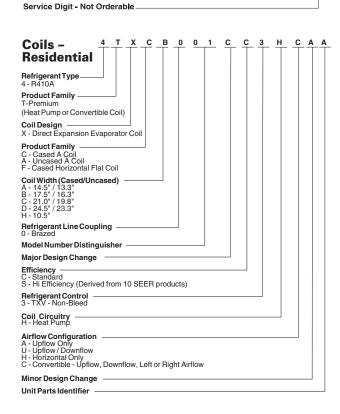
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**Gas Furnaces** T U D 2 B 0 8 0 A C V 3 2 A A Furnace Configuration TU = Upflow/Horizontal TD = Downflow/Horizontal Type
E = 80% Induced Draft Standard
D = 80% Induced Draft Premium
C = 90% Condensing Standard
X = 90% Condensing Premium
H = 95% Condensing Premium **Number of Heating Stages** 1 = Single Stage 2 = Two Stage 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 MBTUH Major Design Change Voltage
9 = 115 Volts / 60 Hertz / Natural Gas
A = 115 Volts / 50 Hertz / Natural Gas
C = 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

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



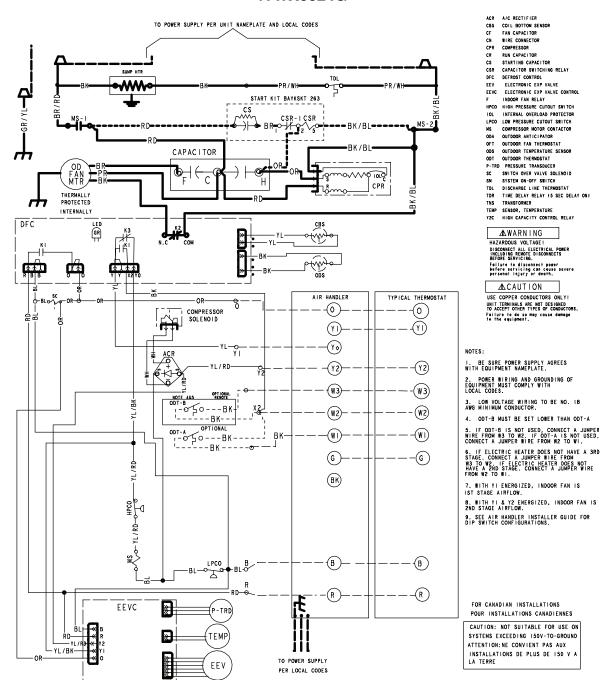


### Electrical Data

### **Schematic Diagrams**

(SEE LEGEND)

### 4TWX6024G



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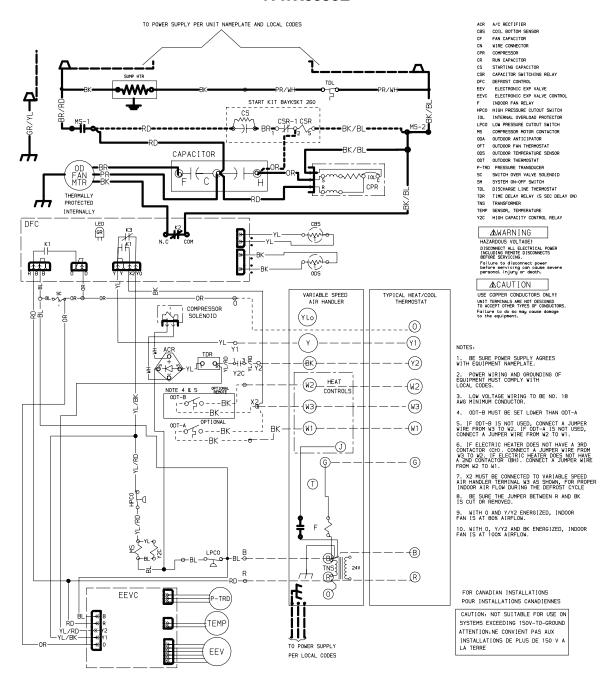


# Electrical Data

### **Schematic Diagrams**

(SEE LEGEND)

### 4TWX6036E



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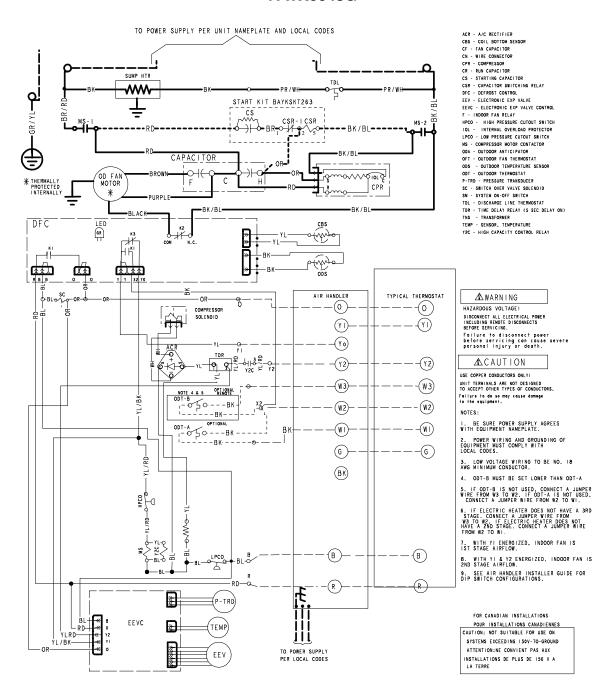


# Electrical Data

### **Schematic Diagrams**

(SEE LEGEND)

### 4TWX6048G



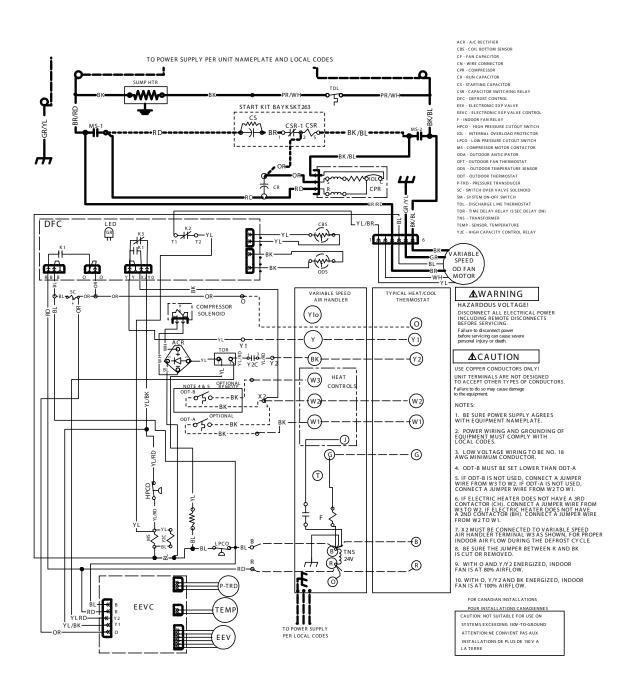


# Electrical Data

### **Schematic Diagrams**

(SEE LEGEND)

### 4TWX6060E

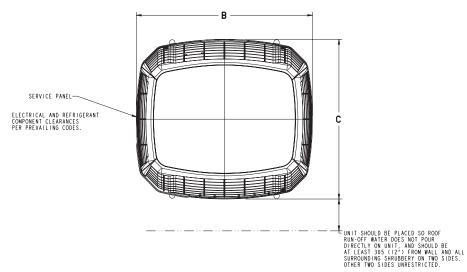


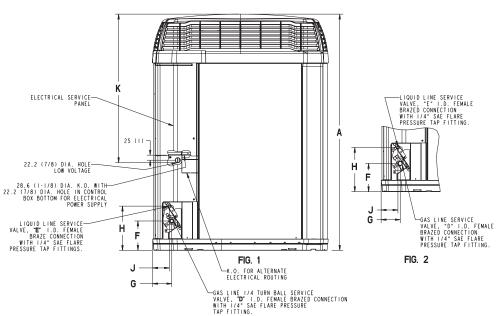


### **Dimensions**

### **4TWX6 Outline Drawing**

Note: All dimensions are in MM (Inches).





MODELS	BASE	Α	В	С	D	E	F	G	н	J	К
4TWX6024G	4	1267 (49-7/8)	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)	730 (28-3/4)
4TWX6036E	4	1369 (53-7/8)	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)	730 (28-3/4)
4TWX6048G	4	1369 (53-7/8)	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)	730 (28-3/4)
4TWX6060E	4	1369 (53-7/8)	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)	730 (28-3/4)

# Mechanical **Specifications**

#### General

The 4TWX6 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<sup>TM</sup> 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 APP-APG013-EN.







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