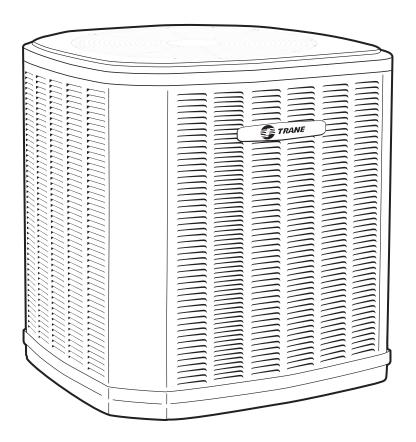


Split System Heat Pump Product Data

XR15 4TWR5

 $1^{1}/_{2}$ - 5 Tons





Features and Benefits

- CLIMATUFF® compressor
- Efficiency up to 17.0 SEER and 9.0 HSPF
- All aluminum **SPINE FIN**™ coil
- WEATHERGUARD™ fasteners
- QUICK-SESSTM cabinet, service access and refrigerant connections with full coil protection
- **DURATUFF**[™] base, fast complete drain, weatherproof
- **COMFORT-R**TM mode approved
- Glossy corrosion resistant finish
- Internal compressor high/low pressure & temperature protection
- 018, 024, 030, 060 & 061 ship with start kit

- Compressor Sump Heat
- Liquid line filter/drier
- Tarpaulin gray cabinet with anthracite gray badge and cap
- High pressure switch
- Demand Defrost with Diagnostics
- · Service valve cover
- R-410A refrigerant
- S.E.E.T. design testing
- 100% line run test
- Low ambient cooling to 20°F with AY28X084
- Low ambient cooling to 55°F as shipped
- · Extended warranties available



Contents

Features and Benefits	2	
General Data	4	
Product Specifications		
A-weighted Sound Power Level [dB(A)]		
Accessory Description and Usage		
AHRI Standard Capacity Rating Conditions	(
Model Nomenclature		
Electrical Data	8	
Dimensions	15	
Mechanical Specification Options	16	

22-1832-09 3



General Data

Product Specifications

Model No. ①	4TWR5018G1	4TWR5024E1	4TWR5030E1	4TWR5036G1
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	9	12	15	18
Max Fuse Size (Amps)	15	20	25	30
Compressors	CLIMATUFF®	CLIMATUFF®	CLIMATUFF®	CLIMATUFF®
RL AMPS - LR AMPS	6.4 - 38.6	9.5 - 57.8	11.1 - 63	13.2 - 63
Outdoor Fan FL Amps	0.70	0.74	0.74	1.00
Fan HP	1/8	1/8	1/8	1/5
Fan Dia (inches)	23	27.6	27.6	27.5
Coil	Spine Fin™	Spine Fin™	Spine Fin™	Spine Fin™
Refrigerant R-410A	5/14-LB/OZ	7/5-LB/OZ	9/3-LB/OZ	7/13-LB/OZ
Line Size - (in.) O.D. Gas 3	5/8	5/8	3/4	3/4
Line Size - (in.) O.D. Liquid 3	3/8	3/8	3/8	3/8
Dimensions H x W x D (Crated)	34 x 30.1 x 33	38.4 x 35.1 x 38.7	38.4 x 35.1 x 38.7	37.9 x 35 x 37.9
Weight - Shipping	204	255	281	261
Weight - Net	176	222	245	227
Start Components	YES	YES	YES	YES
Sound Enclosure	NO	YES	YES	YES
Compressor Sump Heat	YES	YES	YES	YES
Optional Accessories: 4				
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A	TAYASCT501A
Evaporator Defrost Control A/C	AY28X084	AY28X084	AY28X084	AY28X084
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101
Hard Start Kit Scroll				
Extreme Condition Mounting Kit	BAYECMT004	BAYECMT004	BAYECMT004	BAYECMT004
Snow Leg - Base & Cap 4" High	BAYLEGS002	BAYLEGS002	BAYLEGS002	BAYLEGS002
Snow Leg - 4" Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001
Refrigerant Lineset 5	TAYREFLN950	TAYREFLN950	TAYREFLN7*	TAYREFLN7*

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 - 80'. Standard lift - 60' Suction and Liquid line.

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

MODEL	SOUND POWER A-WEIGHTED FULL OCTAVE SOUND POWER LEVEL dB - [dB(A)] High Stage							Stage	
LEVEL [dB(63	125	250	500	1000	2000	4000	8000
4TWR5018G	75	52.3	57.8	62.4	67.2	69.4	67.2	59.6	52.5
4TWR5024E	75	50.3	55	58.6	65.3	69.5	64.5	58.6	50.8
4TWR5030E	75	48.8	55.4	60.1	66.4	67.4	63.9	60.2	53.5
4TWR5036G	75	54.5	55.1	58.3	67	69.8	65.9	59.7	49.1
4TWR5042E	75	55.1	52	59.3	64.9	67.2	63.5	60.4	47.6
4TWR5048E	75	55.6	53.3	59.2	66.7	71.7	67.9	60.7	51.3
4TWR5049E	75	43.7	51.2	54.5	61	61.5	57.1	51.3	40.7
4TWR5060E	75	55.1	53.7	61.1	69.2	73.6	68.7	61.4	50
4TWR5061E	75	33.1	56.2	60.1	64.4	66	59.5	54.2	43.5

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

For Greater lengths and lifts refer to refrigerant piping software Pub# 32-3312-0[†]. (†denotes latest revision)

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



General Data

Product Specifications

	<u> </u>								
Model No. 1	4TWR5042E1	4TWR5048E1	4TWR5049E1	4TWR5060E1	4TWR5061E1				
Electrical Data V/Ph/Hz ②	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60	208/230/1/60				
Min Cir Ampacity	27	29	28	35	36				
Max Fuse Size (Amps)	45	50	50	60	60				
Compressors	CLIMATUFF® -SCROLL	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROL	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROL				
RL AMPS - LR AMPS	19.9 - 109	21.8 - 117	21.8 - 117	26.4 - 134	26.4 - 134				
Outdoor Fan FL Amps	0.93	0.93	1.00	0.93	2.80				
Fan HP	1/5	1/5	1/5	1/5	1/3				
Fan Dia (inches)	27.6	27.6	27.6	27.6	27.6				
Coil	Spine Fin™	Spine Fin™	Spine Fin™	Spine Fin™	Spine Fin™				
Refrigerant R-410A	12/1-LB/OZ	13/9-LB/OZ	13/10-LB/OZ	12/1-LB/OZ	13/12-LB/OZ				
Line Size - (in.) O.D. Gas ③	3/4	7/8	7/8	7/8	1-1/8				
Line Size - (in.) O.D. Liquid ③	3/8	3/8	3/8	3/8	3/8				
Dimensions H x W x D (Crated)	46.4 x 35.1 x 38.7	51 x 35.1 x 38.7	51 x 35.1 x 38.7	51 x 35.1 x 38.7	51 x 35.1 x 38.7				
Weight - Shipping	313	331	331	332	332				
Weight - Net	277	294	294	295	295				
Start Components	NO	NO	NO	YES	YES				
Sound Enclosure	YES	YES	NO	YES	NO				
Compressor Sump Heat	YES	YES	YES	YES	YES				
Optional Accessories: 4									
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A	TAYASCT501A	TAYASCT501A				
Evaporator Defrost Control A/C	AY28X084	AY28X084	AY28X084	AY28X084	AY28X084				
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101				
Hard Start Kit Scroll	BAYKSKT260	BAYKSKT260	BAYKSKT260						
Extreme Condition Mounting Kit	BAYECMT004	BAYECMT004	BAYECMT004	BAYECMT004	BAYECMT004				
Snow Leg - Base & Cap 4" High	BAYLEGS002	BAYLEGS002	BAYLEGS002	BAYLEGS002	BAYLEGS002				
Snow Leg - 4" Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003				
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001				
Refrigerant Lineset 5	TAYREFLN7*	TAYREFLN3*	TAYREFLN3*	TAYREFLN3*	TAYREFLN3*				

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 - 60' 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

Anti-Short Cycle Timer — Solid state timing device that prevents compressor recycling until 5 minutes have elapsed after satisfying call or power interruptions. Use in area with questionable power delivery, commercial applications, long lineset, etc.

Evaporator 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 — 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 —

(A) Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.

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.



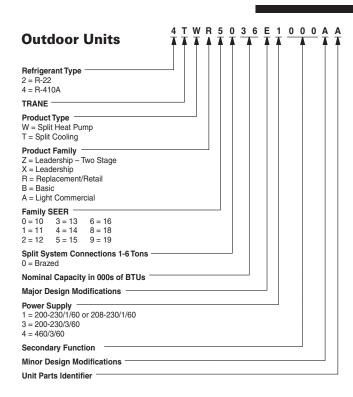


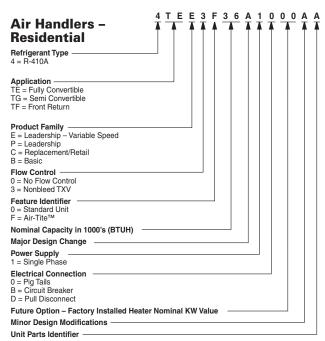
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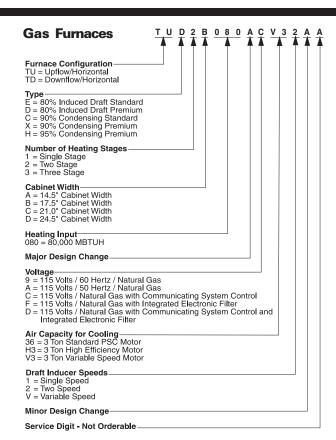
Model **Nomenclature**

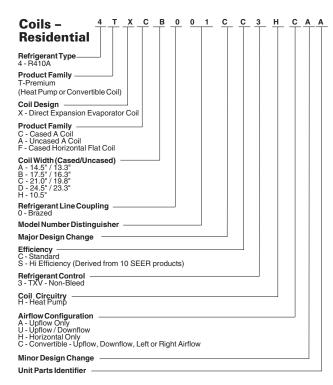




NOTE: There will be a phase-in of new model numbers for new

air handlers over next 2 years.

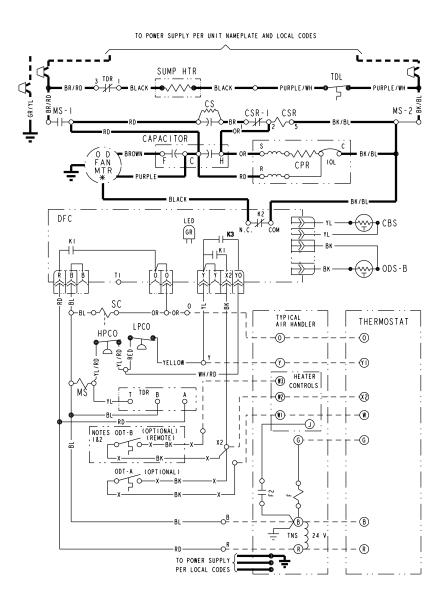






Schematic Diagrams

4TWR5024, 030



LPCO LOW PRESSURE CUTOUT SW.

MS COMPRESSOR MOTOR CONTACTOR
ODA OUTDOOR RAN THERMOSTAT
ODS OUTDOOR FAN THERMOSTAT
ODS OUTDOOR THERMOSTAT
RHS RESISTANCE HEAT SWITCH
SC SWITCHOVER VALVE SOLENOID
SM SYSTEM "ON-OFF" SWITCH
TILL DISCRAFGE LINE THERMOSTAT
INS TRANSFORMER
IS HEATING THERMOSTAT
ISH HEATING COLOIN OF THERMOSTAT
ISH HEATING THERMOSTAT
IDR TIME DELAY RELAY CA COOLING ANTICIPATOR
CBS COIL BOTTOM SENSOR
CF FAN CAPACITOR
OWNER COUNTECTOR
CPR COMPRESSOR
CS STARTING CAPACITOR
CS STARTING CAPACITOR
CS STARTING CAPACITOR
CS CAPACITOR SWITCHING RELAY
DFC DEFROST CONTROL
FINDOOR FAN RELAY
HA HEATING ANTICIPATOR

⚠ WARNING HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING. FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!

△ CAUTION USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS. FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!

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

COLOR OF MARKER BK BLACK OR ORANGE YELLOW GREEN BL BLUE BR BROWN WH WHITE PR PURPLE

NOTES:

- I. 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 AM 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 I8 AWG MIN.

FOR CANADIAN INSTALLATIONS POUR INSTALLATIONS CANADIENTES

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

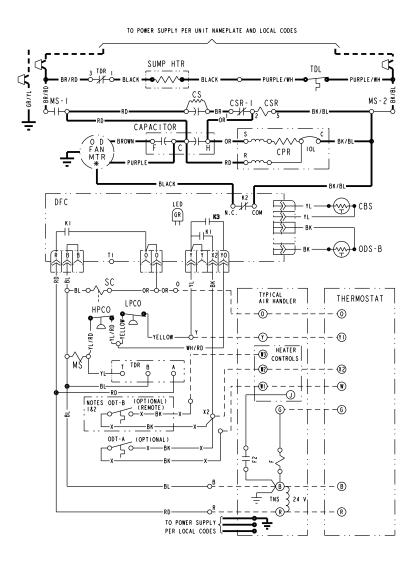
TDR relay cycles sump heat off during compressor operation and delays energizing the sump heat for 30 mins after "Y" call is removed.

Printed from D156126P01 Rev 00



Schematic Diagrams

4TWR5018, 036



COOLING ANTICIPATOR
COIL BOTTOM SENSOR
FAN CAPACITOR
WIRE CONNECTOR
COMPRESSOR
RUN CAPACITOR
STARTING CAFACITOR
CAFACITOR SWITCHING RELAY
DEFROST CONTROL
INDOOR FAN RELAY
HEATING ANTICIPATOR
HIGH PRESSURE CUTOUT SW.
INTERNAL OVERLOAD PROTECTOR LPCO LOW PRESSURE CUTOUT SW.

MS COMPRESSOR MOTOR CONTACTOR
OPPOSED TO THE PROSSOR
DESCRIPTION OF THE

HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING. BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!

△ CAUTION
USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.

FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!

COLOR OF WIRE BK/BL BLACK WIRE WITH BLUE MARKER
COLOR OF MARKER

BK BLACK OR ORANGE YELLOW BLUE RD RED GR GREEN PURPLE

NOTES:

- I. 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 ENCLOSURE.
 2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2
 AT AIR HANDLER.
 3. LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

FOR CANADIAN INSTALLATIONS
POUR INSTALLATIONS CANADIENNES

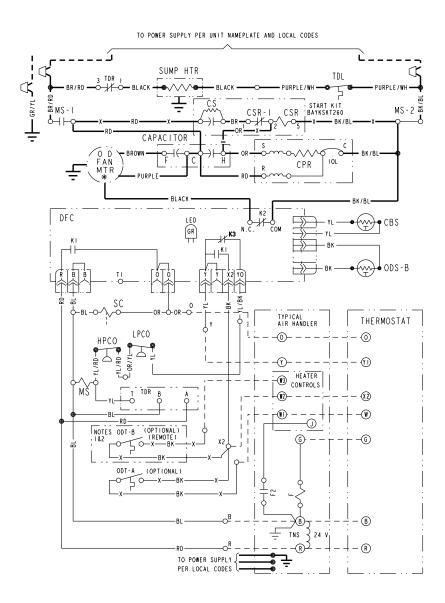
CAUTION: NOT SUITABLE FOR USE ON
SYSTEMS EXCEEDING 150V-TO-GROUND.
ATTENTION: NE CONVIENT PAS AUX
INSTALLATIONS DE PLUS DE 150 V A
LA TERRE.

Printed from D156994P01 Rev 00



Schematic Diagrams

4TWR5042



```
LPCO LOW PRESSURE CUTOUT SW.

MS COMPRESSOR MOTOR CONTACTOR
ODA OUTDOOR FAN THERMOSTAT
ODS OUTDOOR FAN THERMOSTAT
ODS OUTDOOR THERMOSTAT
RHS RESISTANCE HEAT SWITCH
SC SWITCHOVER VALVE SOLENOID
SM SYSTEM "ON-OFF" SWITCH
TILL DISCHARGE LINE THERMOSTAT
TNS TRANSFORMER
TS HEATING TOOLOGY THERMOSTAT
TSH TAING TOOLOGY THERMOSTAT
TSH TAING TOOLOGY THERMOSTAT
TOR TIME DELAY RELAY
CA COOLING ANTICIPATOR
CBS COIL BOTTOM SENSOR
CF FAN CAPACITOR
CPR COUNTETOR
CPR COMPRESSOR
CF RUN CAPACITOR
CS STARTING CAPACITOR
CS STARTING CAPACITOR
CS CAPACITOR SWITCHING RELAY
DFC DEFROST CONTROL
F INDOOR FAN RELAY
HA HEATING ANTICIPATOR
HECH THE PRESSURE CUTOUT SW.
IOL INTERNAL OVERLOAD PROTECTOR
```

△ WARNING HAZARDOUS VOLTAGE!	△ CAUTION USE COPPER CONDUCTORS ONLY!
HAZARDOUS VOLTAGE!	USE COPPER CONDUCTORS ONLY!
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.	UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.
FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!	FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!

COLOR OF WIRE BR/BL BLACK WIRE TO COLOR OF MARKER BLACK WIRE WITH BLUE MARKER

BLACK OR ORANGE BI BILLE RD RED GR GREEN BROWN WH WHITE PURPLE

NOTES:

- I. 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 ENCLOSURE.
 2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN WI & W2
 AT AIR HANDLER.
 3. LOW VOLTAGE (24 V.) FIELD WIRING MUST BE I8 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.

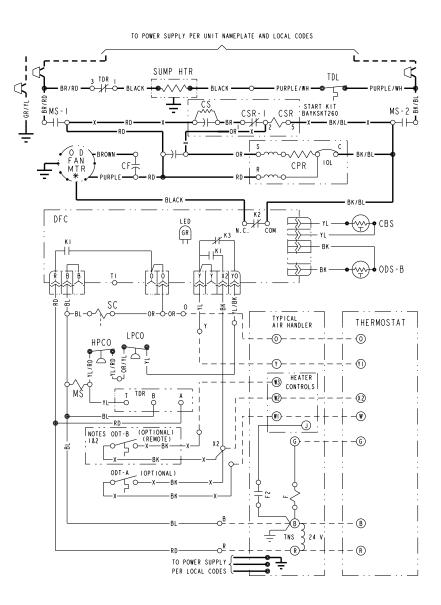
TDR relay cycles sump heat off during compressor operation and delays energizing the sump heat for 30 mins after "Y" call is removed.

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Schematic Diagrams

4TWR5048



```
CA COOLING ANTICIPATOR
CBS COIL BOTTOM SENSOR
CF FAN CAPACITOR
WIRE CONNECTOR
OFT OUTDOOR TAN THERMOSTAT
CPR COMPRESSOR
COMPRESSOR
ODS OUTDOOR TAN THERMOSTAT
OFT OUTDOOR FAN THERMOSTAT
CS STARTING CAPACITOR
CS STARTING CAPACITOR
CS CAPACITOR
FINDOOR FAN RELAY
AHALING ANTICIPATOR
HEATING ANTICIPATOR
TO UTDOOR THERMOSTAT
TO UTDOOR THERMOSTAT
TO UTDOOR THE PROSTATION TO UTDOOR THE CONTROL
TO UTDOOR THE PROSTATION TO UTDOOR THE PROSTAT
TO UTDOOR TAN TELAY
THE PROSTATION TO UTDOOR THE PROSTAT
THE DELAY RELAY

AWARNING

A CAUTION
USE COPPER CONDUCTORS ONLY!
```

HAZARDOUS VOLIAGE!

DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.

FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!

ZS CAUTION
USE COPPER CONDUCTORS ONLY!
UNIT TERMINALS ARE NOT DESIGNED
TO ACCEPT OTHER TYPES OF
CONDUCTORS.
FAILURE TO DO SO MAY CAUSE
DAMAGE TO THE EQUIPMENT!

COLOR OF WIRE
BK/BL BLACK WIRE WITH BLUE MARKER
COLOR OF MARKER
BK BLACK OR ORANGE YL YELLOW

 BK
 BLACK
 OR
 ORANGE
 YL
 YELLOW

 BL
 BLUE
 RD
 RED
 GR
 GREEN

 BR
 BROWN
 WH
 WHITE
 PR
 PURPLE

NOTES:

- I. 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 ENCLOSURE.
 2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN WI & W2
 AT AIR HANDLER.
 3. LOW VOLTAGE (24 V.) FIELD WIRING MUST BE I8 AWG MIN.
- FOR CANADIAN INSTALLATIONS
 POUR INSTALLATIONS CANADIENNES
 CAUTION: NOT SUITABLE FOR USE ON
 SYSTEMS EXCEDING 150V-TO-GROUND.
 ATTENTION: NE CONVIENT PAS AUX
 INSTALLATIONS DE PLUS DE 150 V A
 LA TERRE.

TDR relay cycles sump heat off during compressor operation and delays energizing the sump heat for 30 mins after "Y" call is removed.

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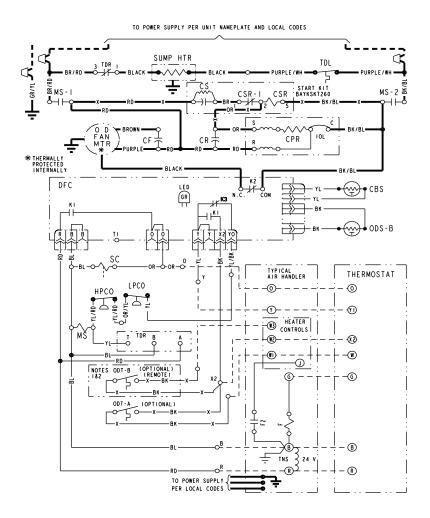
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Schematic Diagrams

(SEE LEGEND)

4TWR5049E



```
COOLING ANTICIPATOR
COIL BOTTOM SENSOR
FAN CAPACITOR
WIRE CONNECTOR
COMPRESSOR
RUN CAPACITOR
STARTING CAPACITOR
CAPACITOR
STARTING CAPACITOR
CAPACITOR SWITCHING RELAY
HODOR FAN RELAY
HEATING ANTICIPATOR
HIGH PRESSURE CUTOUT SW.
INTERNAL OVERLOAD PROTECTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LPCO LOW PRESSURE CUTOUT SW.
MS COMPRESSOR MOTOR CONTACTOR
OPA OUTDOOR AND THE MOST AT THE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     △ CAUTION
USE COPPER CONDUCTORS ONLY!
```

DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING. FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!

UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS. FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!

COLOR OF WIRE
BK/BL BLACK WIRE WITH BLUE MARKER
COLOR OF MARKER OF MANAGE OR ORANGE RD RED WH WHITE BK BLACK YL YELLOW

- 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 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.

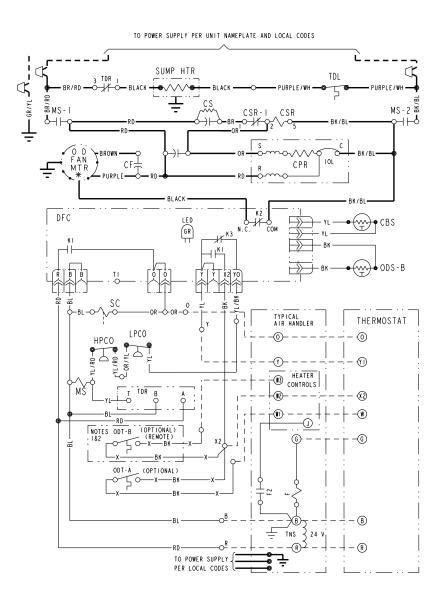
FOR CANADIAN INSTALLATIONS
POUR INSTALLATIONS CANADIENNES
CAUTION: NOT SUITABLE FOR USE ON
SYSTEMS EXCEEDING 150V-TO-GROUND.
ATTENTION: NE CONVIENT PAS AUX
INSTALLATIONS DE PLUS DE 150 V A
LA TERRE.

TDR relay cycles sump heat off during compressor operation and delays energizing the sump heat for 30 mins after "Y" call is removed.



Schematic Diagrams

4TWR5060



```
CA COOLING ANTICIPATOR
CBS COIL BOTTOM SENSOR
CF FAN CAPACITOR
ON WIRE CONNECTOR
OFF COMPRESSOR
OFF OUTDOOR FAN TICHENOSTAT
OS STARTING CAPACITOR
CS STARTING CAPACITOR
CS CAPACITOR
FINDOOR FAN RELAY
DFC DEFROST CONTROL
FINDOOR FAN RELAY
HA HEATING ANTICIPATOR
HAZARDOUS YOLTAGE!
DISCONNECT ALL ELECTRIC POWER
INCLUDING REMOTE DISCONNECTS

UNIT TERMINALS ARE NOT DESIGNED
TO ACCEPT OTHER TYPES OF
CONDUCTORS
```

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

FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!

NOTES:

FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!

I. 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 ENCLOSURE.
2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN WI & W2
AT AIR HANDLER.
3. 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.

TDR relay cycles sump heat off during compressor operation and delays energizing the sump heat for 30 mins after "Y" call is removed.

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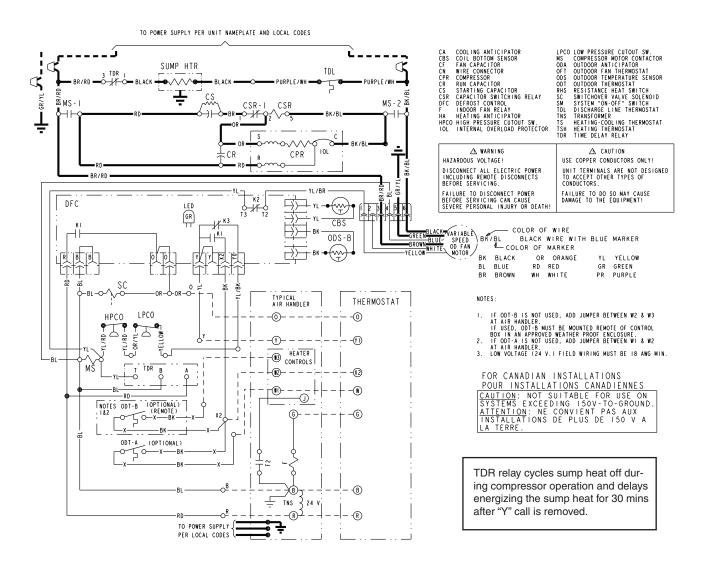
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Schematic Diagrams

(SEE LEGEND)

4TWR5061E



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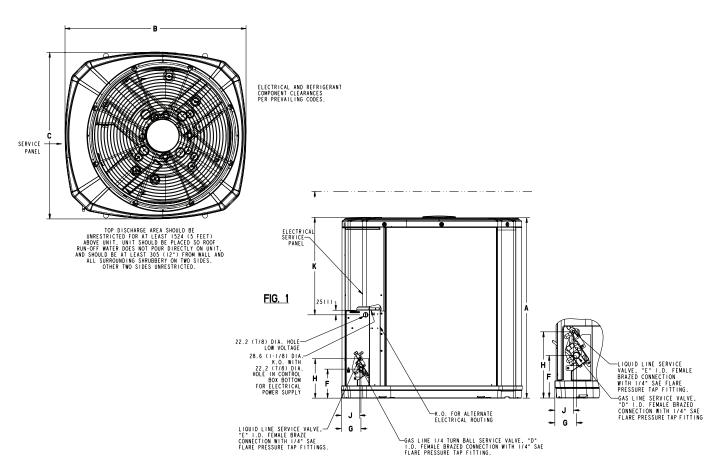
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Dimensions

4TWR5 Outline Drawing

Note: All dimensions are in MM (Inches).



MODELS	BASE	Α	В	С	D	E	F	G	Н	J	K
4TWR5018G	4	730 (28-3/4)	829 (32-5/8)	756 (29-3/4)	5/8	3/8	143 (5-5/8)	92 (3-5/8)	210 (8-1/4)	79 (3-1/8)	508 (20)
4TWR5024E	4	841 (33-1/8)	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)	508 (20)
4TWR5030E	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)	508 (20)
4TWR5036G	4	841 (33-1/8)	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)	508 (20)
4TWR5042E	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)	508 (20)
4TWR5048E	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)	508 (20)
4TWR5049E	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)	508 (20)
4TWR5060E	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)	508 (20)
4TWR5061E	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)	508 (20)

Mechanical Specification Options

General

The 4TWR5 is 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, G90 galvanized steel and painted with a weather-resistant powder paint

on all louvers, panels, prepaint on all other panels. Corrosion and weather-proof CMBP-G30 DuraTuff™ base.

Refrigerant Controls

Refrigeration system controls include condenser fan and compressor contactor. High and low pressure controls are inherent to the compressor. A factory installed liquid line drier is standard.

Compressor

The Climatuff® compressor features internal over temperature and 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 unit has a cooling capability to 55°F. The addition of an evaporator defrost control with TXV permits low ambient cooling to 20° F.

Accessories

Thermostats — Cooling only and heat/cooling (manual and automatic change-over). Sub-base to match thermostat and locking thermostat cover.







06/11