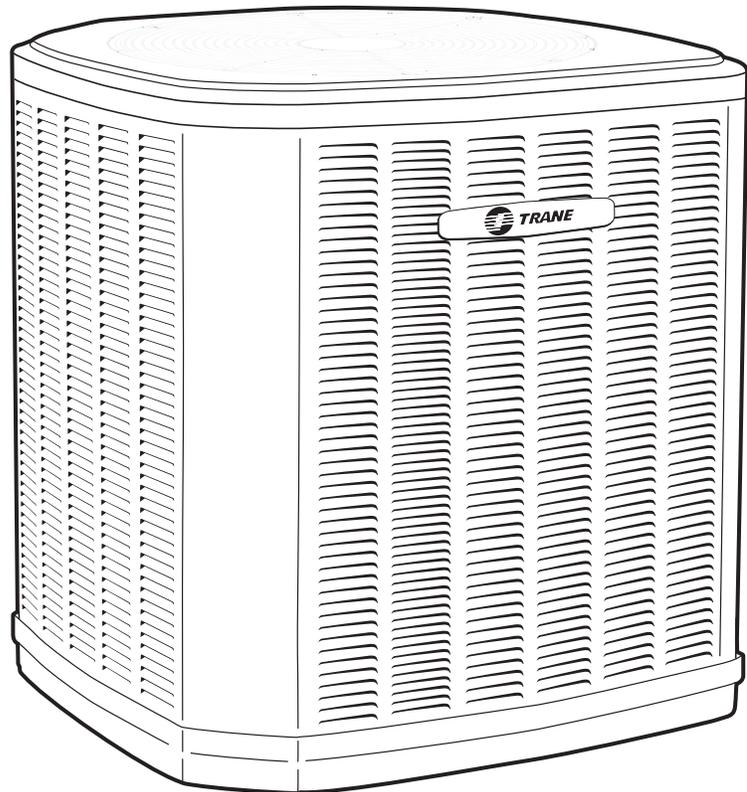




Split System Heat Pump Product Data

XR14 4TWR4

1 1/2 - 5 Tons



PUB. NO. 22-1765-10



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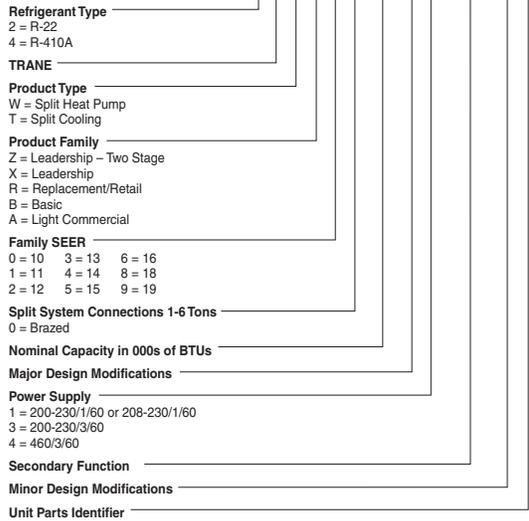
Features and Benefits

- Efficiency up to **14.5 SEER** and **8.5 HSPF**
- All aluminum **SPINE FIN™** coil
- **WEATHERGUARD™** fasteners
- **QUICK-SESS™** cabinet, service access and refrigerant connections with full coil protection
- **DURATUFF™** base, fast complete drain, weatherproof
- **COMFORT-R™** mode approved
- Glossy corrosion resistant finish
- Internal compressor high/low pressure & temperature protection
- 018, 030 ship with start kit
- Compressor Sump Heat (060)
- Liquid line filter/drier
- Tarpaulin gray cabinet with anthracite gray badge
- High pressure switch
- Demand Defrost with Diagnostics
- 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**

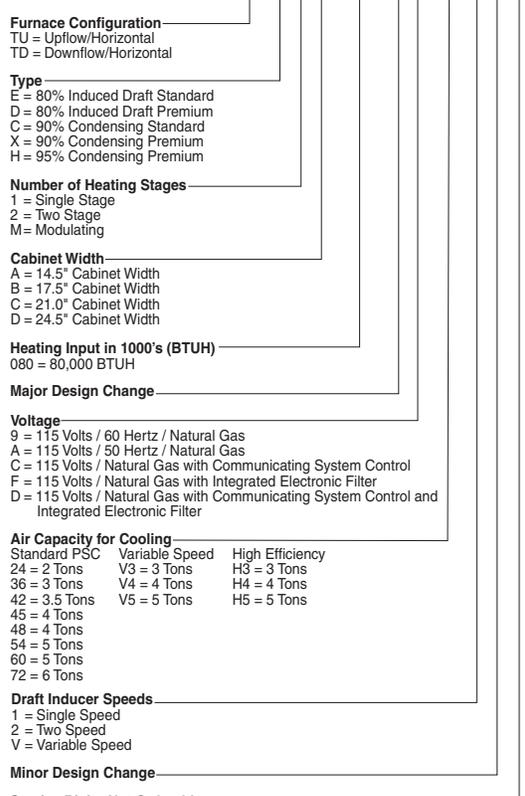


Model Nomenclature

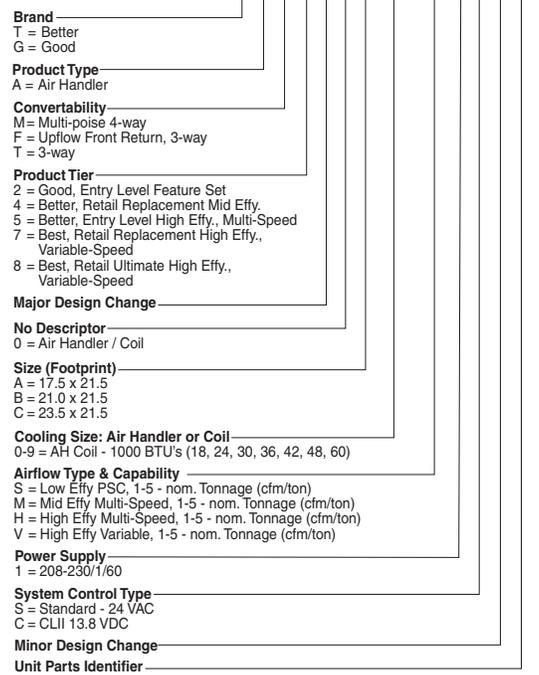
Outdoor Units



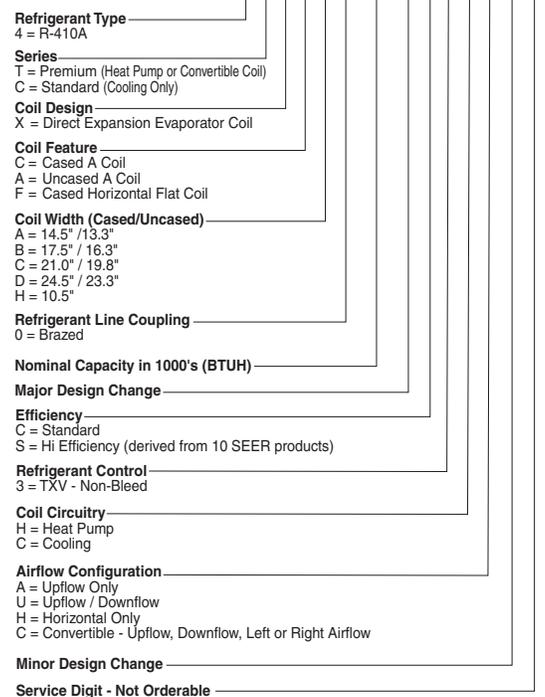
Gas Furnaces



Air Handler



Heat Pump/ Cooling Coils





General Data

Product Specifications

Model No. ①	4TWR4018D1000A	4TWR4024E1000B	4TWR4030D1000A	4TWR4036D1000A
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	14	15	22
Max Fuse Size (Amps)	15	25	25	35
Compressors	CLIMATUFF®	CLIMATUFF® - SCROLL	CLIMATUFF®	CLIMATUFF® - SCROLL
RL AMPS - LR AMPS	6.4 - 38.6	10.9 - 62.9	11.3 - 68.2	16.7 - 79
Outdoor Fan FL Amps	0.77	0.64	0.93	0.95
Fan HP	1/8	1/8	1/5	1/5
Fan Dia (inches)	24	24	22	22
Coil	Spine Fin™	Spine Fin™	Spine Fin™	Spine Fin™
Refrigerant R-410A	5/14-LB/OZ	7/05-LB/OZ	8/02-LB/OZ	6/2-LB/OZ
Line Size - (in.) O.D. Gas ③	5/8	3/4	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 x 30.1 x 33	38.4 x 35.1 x 38.7	38.4 x 35.1 x 38.7
Weight - Shipping	204	208	273	229
Weight - Net	176	174	239	198
Start Components	YES	NO	YES	NO
Sound Enclosure	NO	NO	YES	NO
Compressor Sump Heat	NO	NO	NO	NO
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
Crankcase Heater	BAYCCHT300A	BAYCCHT300A	BAYCCHT300A	BAYCCHT302A
Hard Start Kit Scroll	—	BAYKSKT263	—	BAYKSKT263
Extreme Condition Mounting Kit	BAYECMT023	BAYECMT023	BAYECMT004	BAYECMT004
Snow Leg - Base & Cap 4" High	BAYLEGS002	BAYLEGS002	BAYLEGS002	BAYLEGS002
Snow Leg - 4" Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003
Sound Enclosure	BAYSDEN001	BAYSDEN001	—	BAYDENS003
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001
Refrigerant Lineset ⑤	TAYREFLN950	TAYREFLN950	TAYREFLN7*	TAYREFLN7*
Service Valve Cover	TAYSVPANL0032A	TAYSVPANL3343A	TAYSVPANL3343A	TAYSVPANL3343A

- 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 - 80'. Standard lift - 60' 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.

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
4TWR4018D	76	73	75	70	74	72	67	60	50
4TWR4024E	71	77	72	68	68	69	60	53	47
4TWR4030D	76	75	71	67	69	67	63	59	55
4TWR4036D	76	84	75	70	72	67	62	57	50
4TWR4042D	76	83	74	68	71	68	63	59	55
4TWR4048D	76	83	72	67	70	69	65	59	56
4TWR4060E	72	77	75	72	70	67	62	59	52

Note: Rated in accordance with AHRI Standard 270-2008

General Data

Product Specifications

Model No. ①	4TWR4042D1000A	4TWR4048D1000A	4TWR4060E1000B
Electrical Data V/Ph/Hz ②	208/230/1/60	208/230/1/60	208/230/1/60
Min Cir Ampacity	26	28	32
Max Fuse Size (Amps)	45	50	50
Compressors	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL
RL AMPS - LR AMPS	19.9 - 109	21.8 - 117	23.7 - 152.5
Outdoor Fan FL Amps	0.86	0.86	2.80
Fan HP	1/5	1/5	1/3
Fan Dia (inches)	22	24.71	29.15
Coil	Spine Fin™	Spine Fin™	Spine Fin™
Refrigerant R-410A	7/8-LB/OZ	8/8-LB/OZ	10/09-LB/OZ
Line Size - (in.) O.D. Gas ③	3/4	7/8	1 - 1/8
Line Size - (in.) O.D. Liquid ③	3/8	3/8	3/8
Dimensions H x W x D (Crated)	38.4 x 35.1 x 38.7	42.4 x 35.1 x 38.7	51 x 35.1 x 38.7
Weight - Shipping	253	269	332
Weight - Net	219	234	295
Start Components	NO	NO	NO
Sound Enclosure	NO	NO	NO
Compressor Sump Heat	NO	NO	YES
Optional Accessories: ④			
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A
Evaporator Defrost Control A/C	AY28X084	AY28X084	AY28X084
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101
Crankcase Heater	BAYCCHT301A	BAYCCHT301A	—
Hard Start Kit Scroll	BAYKSKT263	BAYKSKT263	BAYKSKT263
Extreme Condition Mounting Kit	BAYECMT004	BAYECMT004	BAYECMT004
Snow Leg - Base & Cap 4" High	BAYLEGS002	BAYLEGS002	BAYLEGS002
Snow Leg - 4" Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003
Sound Enclosure	BAYSDEN004	BAYSDEN004	BAYSDEN004
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001
Refrigerant Lineset ⑤	TAYREFLN7*	TAYREFLN3*	TAYREFLN3*
Service Valve Cover	TAYSVPANL3343A	TAYSVPANL0044A	TAYSVPANL0046A

- 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 - 60' Suction and Liquid line. For Greater lengths/lifts refer to refrigerant piping software Pub# 32-3312-01.
 ④ For accessory description and usage, see page 5. ⑤ * = 25, 30, 40 and 50 foot lineset available.



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 —

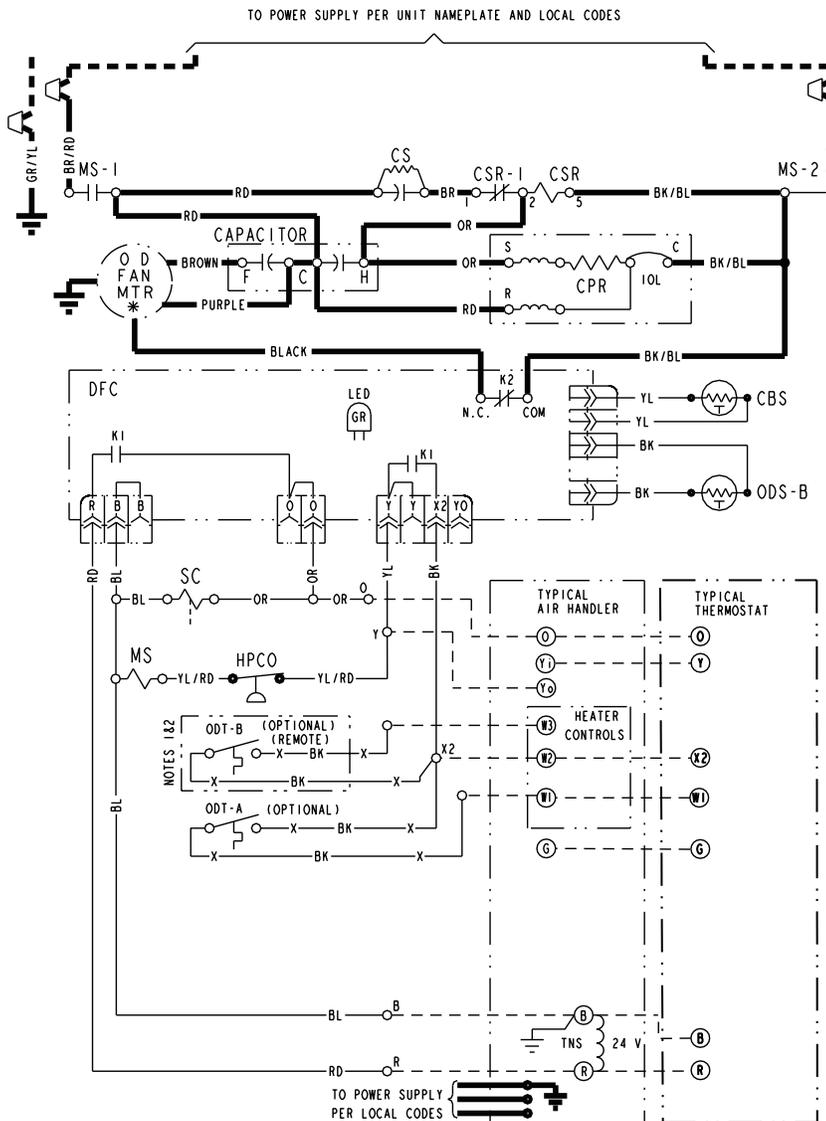
(Noise rating numbers are determined with the unit in cooling operation.) Standard Noise Rating number is at 95°F outdoor air.



Electrical Data

Schematic Diagrams

4TWR4018D



CA	COOLING ANTICIPATOR	LPCO	LOW PRESSURE CUTOUT SW.
CBS	COIL BOTTOM SENSOR	MS	COMPRESSOR MOTOR CONTACTOR
CF	FAN CAPACITOR	ODA	OUTDOOR ANTICIPATOR
CH	WIRE CONNECTOR	OFT	OUTDOOR FAN THERMOSTAT
CPR	COMPRESSOR	ODS	OUTDOOR TEMPERATURE SENSOR
CR	RUN CAPACITOR	ODT	OUTDOOR THERMOSTAT
CS	STARTING CAPACITOR	RHS	RESISTANCE HEAT SWITCH
CSR	CAPACITOR SWITCHING RELAY	SC	SWITCHOVER VALVE SOLENOID
DFC	DEFROST CONTROL	SM	SYSTEM "ON-OFF" SWITCH
F	INDOOR FAN RELAY	TDL	DISCHARGE LINE THERMOSTAT
HA	HEATING ANTICIPATOR	TNS	TRANSFORMER
HPCO	HIGH PRESSURE CUTOUT SW.	TS	HEATING-COOLING THERMOSTAT
IOL	INTERNAL OVERLOAD PROTECTOR	TSH	HEATING THERMOSTAT

COLOR OF WIRE			
BK/BL	BLACK WIRE WITH BLUE MARKER		
COLOR OF MARKER			
BK	BLACK	YL	YELLOW
BL	BLUE	RD	RED
BR	BROWN	GR	GREEN
		WH	WHITE
		PR	PURPLE

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

1. 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.

Electrical Data

Schematic Diagrams

4TWR4024E

LEGEND

ACR	A/C RECTIFIER	—	24 V } FACTORY WIRING
CBS	COIL BOTTOM SENSOR	—	24 V } FIELD WIRING
CF	FAN CAPACITOR	—	24 V } FIELD WIRING
CH	WIRE CONNECTOR	—	24 V } FIELD WIRING
CPR	COMPRESSOR	—	24 V } FIELD WIRING
CR	RUN CAPACITOR	—	24 V } FIELD WIRING
CS	STARTING CAPACITOR	—	24 V } FIELD WIRING
CSR	CAPACITOR SWITCHING RELAY	—	24 V } FIELD WIRING
DFC	DEFROST CONTROL	—	24 V } FIELD WIRING
EEV	ELECTRONIC EXP VALVE	—	24 V } FIELD WIRING
EEVC	ELECTRONIC EXP VALVE CONTROL	—	24 V } FIELD WIRING
F	INDOOR FAN RELAY	—	24 V } FIELD WIRING
HPCO	HIGH PRESSURE CUTOFF SWITCH	—	24 V } FIELD WIRING
IOL	INTERNAL OVERLOAD PROTECTOR	—	24 V } FIELD WIRING
LPDO	LOW PRESSURE CUTOFF SWITCH	—	24 V } FIELD WIRING
MS	COMPRESSOR MOTOR CONTACTOR	—	24 V } FIELD WIRING
ODA	OUTDOOR ANTICIPATOR	—	24 V } FIELD WIRING
OFT	OUTDOOR FAN THERMOSTAT	—	24 V } FIELD WIRING
ODS	OUTDOOR TEMPERATURE SENSOR	—	24 V } FIELD WIRING
ODT	OUTDOOR THERMOSTAT	—	24 V } FIELD WIRING
P-TD	PRESSURE TRANSDUCER	—	24 V } FIELD WIRING
SC	SWITCH OVER VALVE SOLENOID	—	24 V } FIELD WIRING
SM	SYSTEM ON-OFF SWITCH	—	24 V } FIELD WIRING
TDL	DISCHARGE LINE THERMOSTAT	—	24 V } FIELD WIRING
TDR	TIME DELAY RELAY (IS SEC DELAY ON)	—	24 V } FIELD WIRING
TNS	TRANSFORMER	—	24 V } FIELD WIRING
TEMP	TEMPERATURE	—	24 V } FIELD WIRING
Y2C	HIGH CAPACITY CONTROL RELAY	—	24 V } FIELD WIRING

—	GROUND
—	JUNCTION
—	CAPACITOR
—	WIRE NUT OR TERMINAL
—	TRANSFORMER
—	FUSE
—	TERMINAL BLOCK/BOARD
—	RELAY CONTACT (N.O.)
—	RELAY CONTACT (N.C.)
—	THERMISTOR
—	TEMP ACTUATED SWITCH
—	INTERNAL OVERLOAD PROTECTION
—	PRESSURE ACTUATED SWITCH
—	RESISTOR OR HEATING ELEMENT
—	MOTOR WINDING
—	POL. PLUG FEMALE HOUSING (MALE TERMINALS)
—	POL. PLUG MALE HOUSING (FEMALE TERMINALS)

BK/BL — COLOR OF WIRE
 BK/BL — COLOR OF MARKER

BK BLACK RD RED OR ORANGE
 BL BLUE BW WHITE OR GREEN
 BR BROWN YL YELLOW PR PURPLE
 PK PINK

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. ODT-B MUST BE SET LOWER THAN ODT-A

WARNING

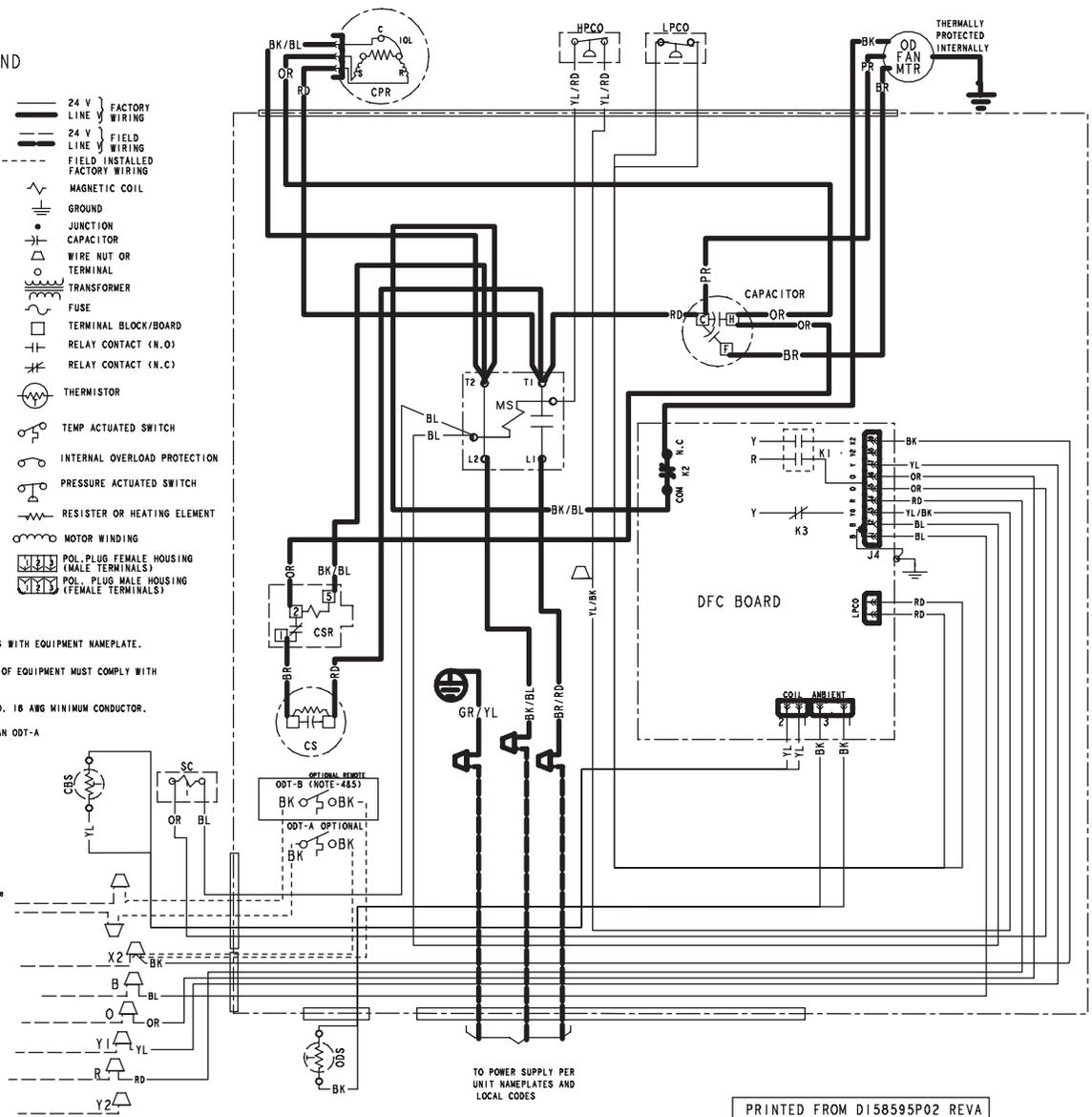
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRICAL POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.
Failure to disconnect power before servicing can cause severe personal injury or death.

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.

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



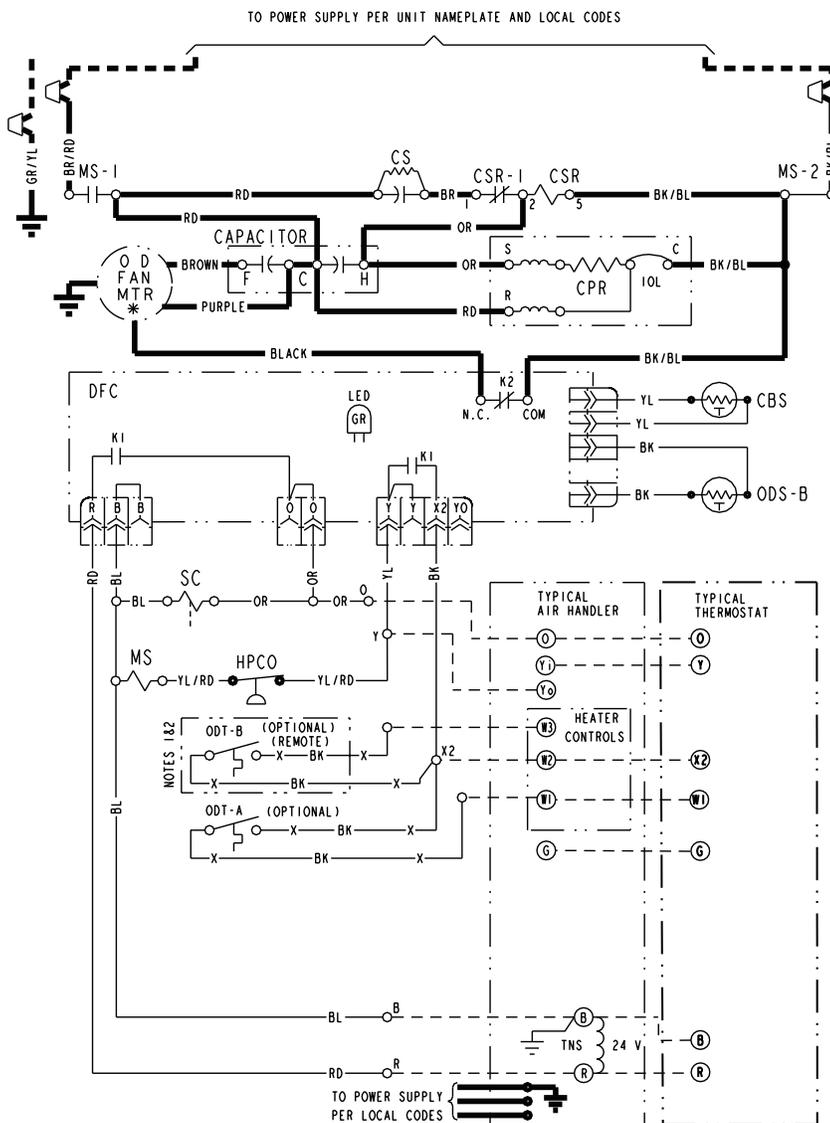
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Electrical Data

Schematic Diagrams

4TWR4030D



CA	COOLING ANTICIPATOR	LPCO	LOW PRESSURE CUTOUT SW.
CBS	COIL BOTTOM SENSOR	MS	COMPRESSOR MOTOR CONTACTOR
CF	FAN CAPACITOR	ODA	OUTDOOR ANTICIPATOR
CN	WIRE CONNECTOR	OFT	OUTDOOR FAN THERMOSTAT
CPR	COMPRESSOR	ODS	OUTDOOR TEMPERATURE SENSOR
CR	RUN CAPACITOR	ODT	OUTDOOR THERMOSTAT
CS	STARTING CAPACITOR	RHS	RESISTANCE HEAT SWITCH
CSR	CAPACITOR SWITCHING RELAY	SC	SWITCHOVER VALVE SOLENOID
DFC	DEFROST CONTROL	SM	SYSTEM "ON-OFF" SWITCH
F	INDOOR FAN RELAY	TDL	DISCHARGE LINE THERMOSTAT
HA	HEATING ANTICIPATOR	TNS	TRANSFORMER
HPCO	HIGH PRESSURE CUTOUT SW.	TS	HEATING-COOLING THERMOSTAT
IOL	INTERNAL OVERLOAD PROTECTOR	TSH	HEATING THERMOSTAT

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

<p>⚠ 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!</p>	<p>⚠ 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!</p>
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NOTES:

1. 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.

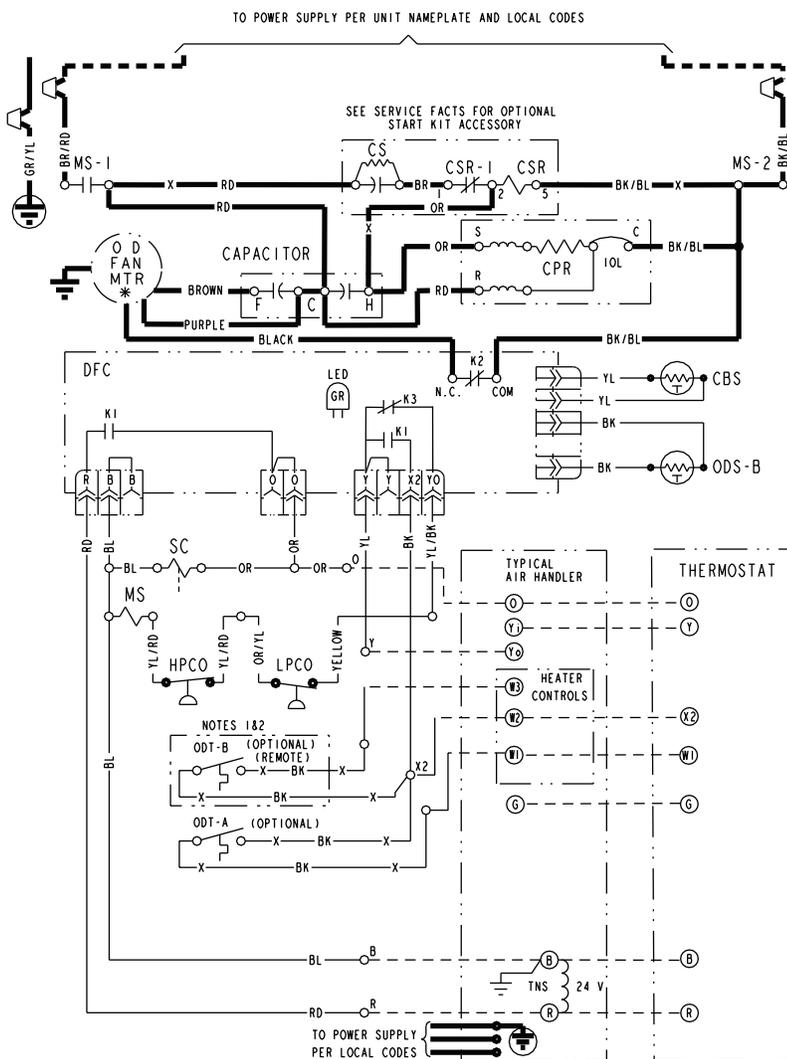
FOR CANADIAN INSTALLATIONS
POUR INSTALLATIONS CANADIENNES

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.

Electrical Data

Schematic Diagrams

4TWR4036D



CA	COOLING ANTICIPATOR	LPCO	LOW PRESSURE CUTOFF SW.
CBS	COIL BOTTOM SENSOR	MS	COMPRESSOR MOTOR CONTACTOR
CF	FAN CAPACITOR	ODA	OUTDOOR ANTICIPATOR
CN	WIRE CONNECTOR	OFT	OUTDOOR FAN THERMOSTAT
CPR	COMPRESSOR	ODS	OUTDOOR TEMPERATURE SENSOR
CR	RUN CAPACITOR	ODT	OUTDOOR THERMOSTAT
CS	STARTING CAPACITOR	RHS	RESISTANCE HEAT SWITCH
CSR	CAPACITOR SWITCHING RELAY	SC	SWITCHOVER VALVE SOLENOID
DFC	DEFROST CONTROL	SM	SYSTEM "ON-OFF" SWITCH
F	INDOOR FAN RELAY	TDL	DISCHARGE LINE THERMOSTAT
HA	HEATING ANTICIPATOR	TNS	TRANSFORMER
HPCO	HIGH PRESSURE CUTOFF SW.	TS	HEATING-COOLING THERMOSTAT
IOL	INTERNAL OVERLOAD PROTECTOR	TSH	HEATING THERMOSTAT

<p>⚠ 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!</p>	<p>⚠ 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!</p>
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←	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

- NOTES:
- 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 W1 & 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.

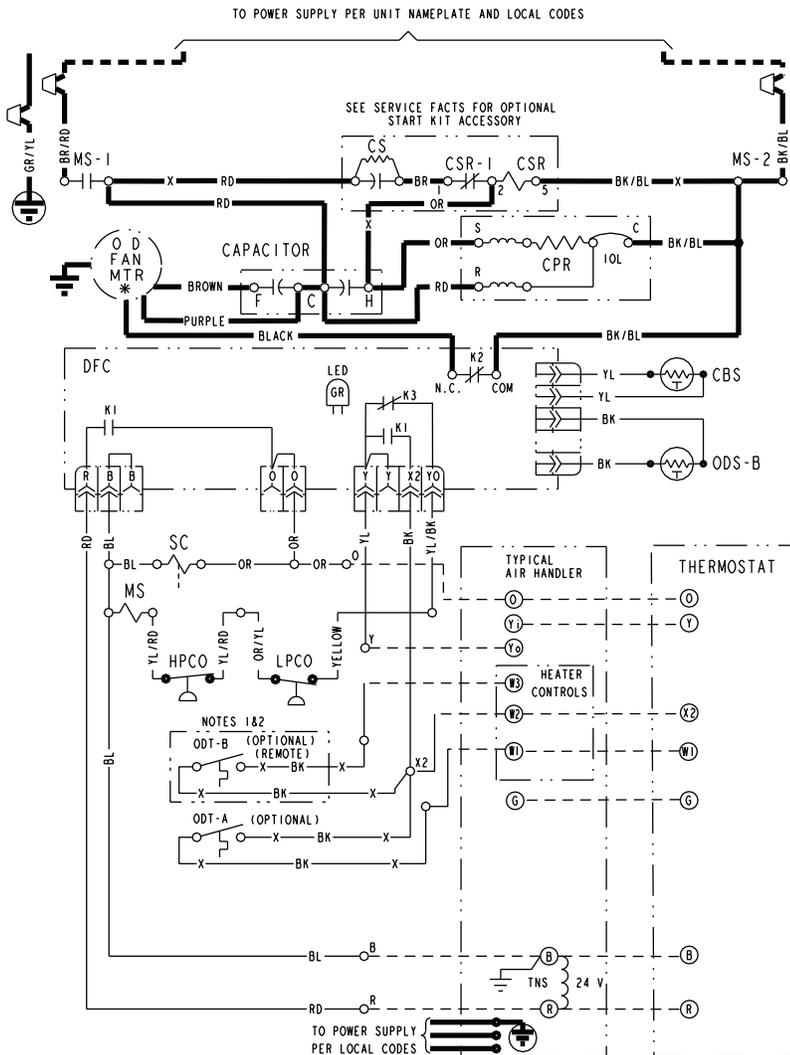


Electrical Data

Schematic Diagrams

(SEE LEGEND)

4TWR4042D



CA	COOLING ANTICIPATOR	LPCO	LOW PRESSURE CUTOFF SW.
CBS	COIL BOTTOM SENSOR	MS	COMPRESSOR MOTOR CONTACTOR
CF	FAN CAPACITOR	ODA	OUTDOOR ANTICIPATOR
CN	WIRE CONNECTOR	OFT	OUTDOOR FAN THERMOSTAT
CPR	COMPRESSOR RUN CAPACITOR	ODS	OUTDOOR TEMPERATURE SENSOR
CR	STARTING CAPACITOR	ODT	OUTDOOR THERMOSTAT
CS	CAPACITOR SWITCHING RELAY	RHS	RESISTANCE HEAT SWITCH
DFC	DEFROST CONTROL	SC	SWITCHOVER VALVE SOLENOID
F	INDOOR FAN RELAY	SM	SYSTEM "ON-OFF" SWITCH
HA	HEATING ANTICIPATOR	TDL	DISCHARGE LINE THERMOSTAT
HPCO	HIGH PRESSURE CUTOFF SW.	TNS	TRANSFORMER
IOL	INTERNAL OVERLOAD PROTECTOR	TS	HEATING-COOLING THERMOSTAT
		TSH	HEATING THERMOSTAT

<p>⚠ 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!</p>	<p>⚠ 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!</p>
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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

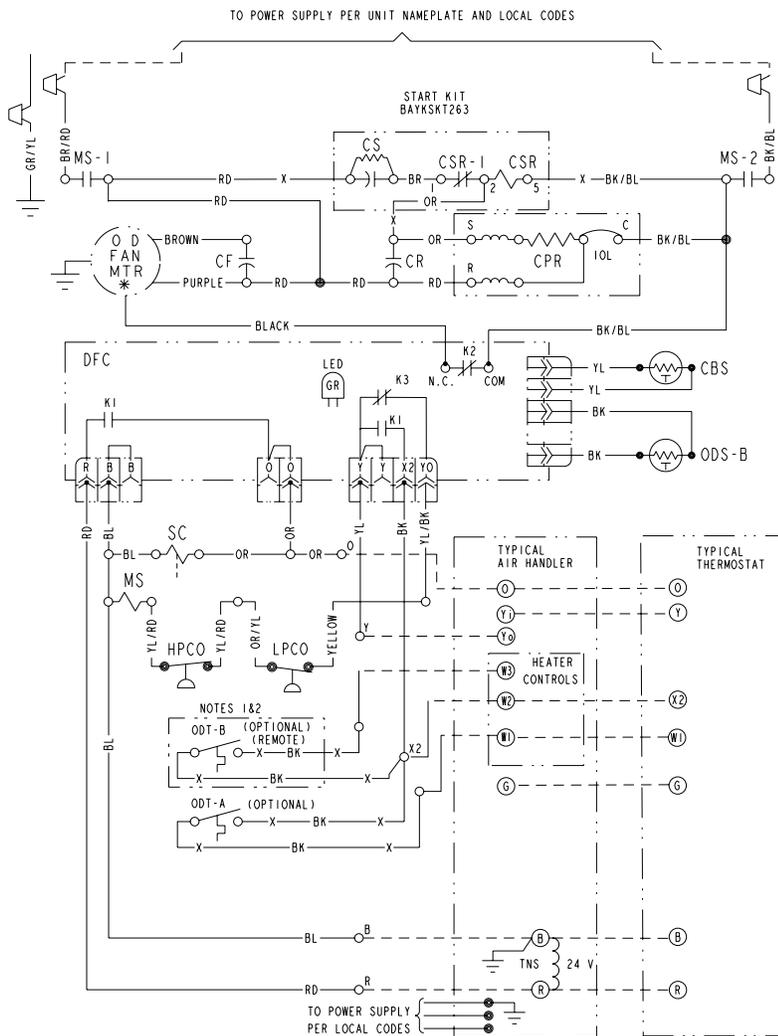
- NOTES:
- IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.
IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
 - IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
 - LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

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.

Electrical Data

Schematic Diagrams

4TWR4048D



CA COOLING ANTICIPATOR	LPCO LOW PRESSURE CUTOUT SW.
CBS COIL BOTTOM SENSOR	MS COMPRESSOR MOTOR CONTACTOR
CF FAN CAPACITOR	ODA OUTDOOR ANTICIPATOR
CN WIRE CONNECTOR	OFT OUTDOOR FAN THERMOSTAT
CPR COMPRESSOR	ODS OUTDOOR TEMPERATURE SENSOR
CR RUN CAPACITOR	ODT OUTDOOR THERMOSTAT
CS STARTING CAPACITOR	RHS RESISTANCE HEAT SOLENOID
CSR CAPACITOR SWITCHING RELAY	SC SWITCHOVER VALVE SOLENOID
DFC DEFROST CONTROL	SM SYSTEM "ON-OFF" SWITCH
F INDOOR FAN RELAY	TDL DISCHARGE LINE THERMOSTAT
HA HEATING ANTICIPATOR	TNS TRANSFORMER
HPCO HIGH PRESSURE CUTOUT SW.	TS HEATING-COOLING THERMOSTAT
IOL INTERNAL OVERLOAD PROTECTOR	TSH HEATING THERMOSTAT

<p>⚠ 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!</p>	<p>⚠ 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!</p>
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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

- NOTES:
- 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 W1 & 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.

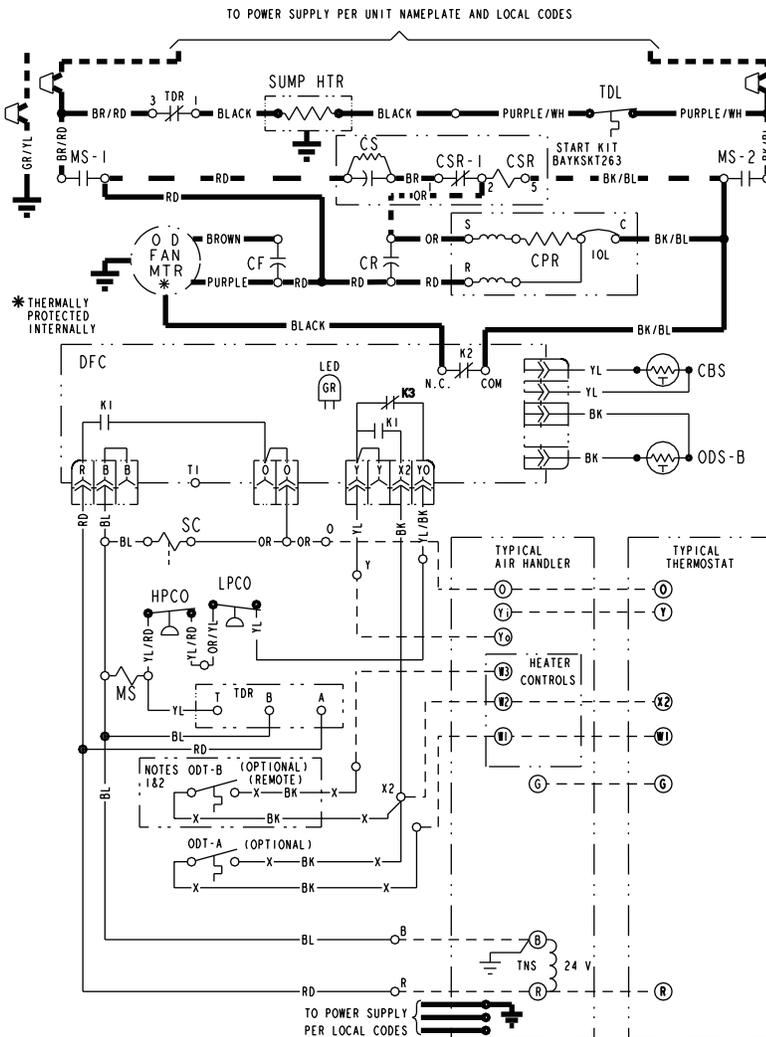


Electrical Data

Schematic Diagrams

(SEE LEGEND)

4TWR4060E



CA	COOLING ANTICIPATOR	LPCO	LOW PRESSURE CUTOFF SW.
CBS	COIL BOTTOM SENSOR	MS	COMPRESSOR MOTOR CONTACTOR
CF	FAN CAPACITOR	ODA	OUTDOOR ANTICIPATOR
CN	WIRE CONNECTOR	ODT	OUTDOOR FAN THERMOSTAT
CPR	COMPRESSOR	ODS	OUTDOOR TEMPERATURE SENSOR
CR	RUN CAPACITOR	ODT	OUTDOOR THERMOSTAT
CS	STARTING CAPACITOR	RHS	RESISTANCE HEAT SWITCH
CSR	CAPACITOR SWITCHING RELAY	SC	SWITCHOVER VALVE SOLENOID
DFC	DEFROST CONTROL	SM	SYSTEM "ON-OFF" SWITCH
F	INDOOR FAN RELAY	TDL	DISCHARGE LINE THERMOSTAT
HA	HEATING ANTICIPATOR	TNS	TRANSFORMER
HPCO	HIGH PRESSURE CUTOFF SW.	TS	HEATING-COOLING THERMOSTAT
IOL	INTERNAL OVERLOAD PROTECTOR	TSH	HEATING THERMOSTAT
		TDR	TIME DELAY RELAY

<p>⚠ 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!</p>	<p>⚠ 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!</p>
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COLOR OF WIRE			
BK/BL	BLACK WIRE WITH BLUE MARKER		
COLOR OF MARKER			
BK	BLACK	OR	ORANGE
BL	BLUE	RD	RED
BR	BROWN	WH	WHITE
		YL	YELLOW
		GR	GREEN
		PR	PURPLE

- NOTES:
- IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.
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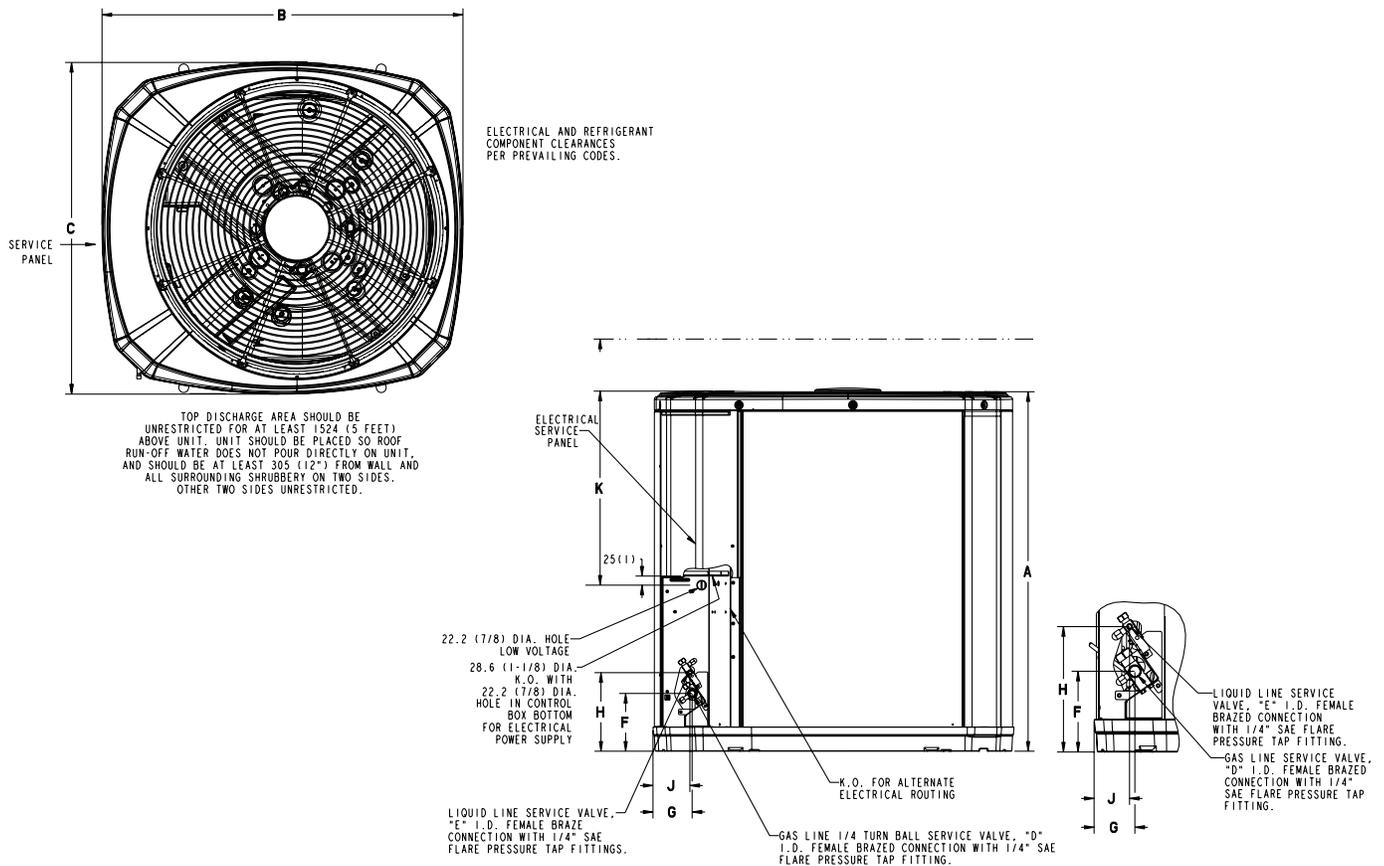
FOR CANADIAN INSTALLATIONS
POUR INSTALLATIONS CANADIENNES

**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.**

Dimensions

4TWR4 Outline Drawing

Note: All dimensions are in MM (Inches).



MODELS	BASE	A	B	C	D	E	F	D	H	J	K
4TWR4018D	3	730 (28-3/4)	829 (32-5/8)	756 (29-3/4)	5/8	3/8	127 (5)	76 (3)	197 (7-3/4)	57 (2-1/4)	508 (20)
4TWR4024E	3	841 (32-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	3/8	127 (5)	76 (3)	197 (7-3/4)	60 (2-3/8)	508 (20)
4TWR4030D	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)
4TWR4036D	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)
4TWR4042D	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)
4TWR4048D	4	943 (37 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)
4TWR4060E	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)

Mechanical Specification Options

General

The 4TWR4 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 fan top cover and louvered panels, prepaint on all other panels. Corrosion and weatherproof CMBP-G30 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 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 changeover). Sub-base to match thermostat and locking thermostat cover.



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08/15

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