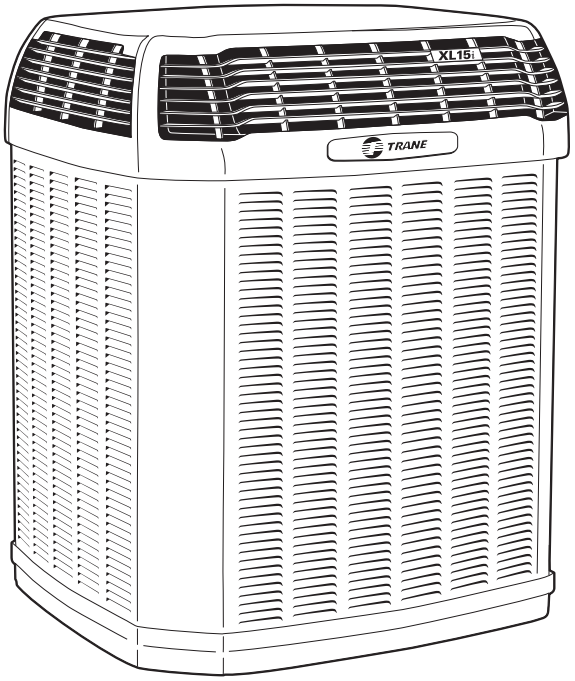
TRANE®

Split System Heat Pump Product Data

XL 15i
4TWX5

1½ – 5 Tons



PUB. NO. 22-1800-13

Features and Benefits

- **Climatuff®** compressor
- Efficiency up to 16.00 SEER and 9.0 HSPF
- All aluminum **Spine Fin™** coil
- **WeatherGuard™ II** top shields unit
- **WeatherGuard™** fasteners
- **Quick-Sess™** cabinet, service access and refrigerant connections with full coil protection
- **DuraTuff™** base, fast complete drain, weather proof
- **Comfort-R™** mode approved
- Glossy corrosion resistant finish
- Internal compressor high/low pressure and temperature protection
- Compressor sump heat
- Liquid line filter-drier
- Tarpaulin gray cabinet with anthracite gray badge and cap
- Low pressure switch
- Demand Defrost Control with diagnostics
- High pressure switch
- 018, 024, 030, 060 & 061 ship with start kit
- R-410A refrigerant
- S.E.E.T. design testing
- 100% line run test
- Low ambient cooling to 55°F as shipped
- Low ambient cooling to 30°F with AY28X084

- **Extended warranties available**

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General Data

Product Specifications

Model No. ①	4TWX5018B1	4TWX5024B1	4TWX5030B1	4TWX5036B1
Electrical Data V/Ph/Hz ②	208/230/1/60	200/230/1/60	208/230/1/60	208/230/1/60
Min Cir Ampacity	9	11	15	18
Max Fuse Size (Amps)	15	15	25	30
Compressor	CLIMATUFF®	CLIMATUFF®	CLIMATUFF®	CLIMATUFF®
RL Amps - LR Amps	6.4 - 38.6	8.3 - 58	11.3 - 68.2	13.2-63
Outdoor Fan FL Amps	0.70	0.74	.92	1.0
Fan HP	1/8	1/8	1/5	1/5
Fan Dia (inches)	23	23	27.5	27.5
Coil	Spine Fin™	Spine Fin™	Spine Fin™	Spine Fin™
Refrigerant R-410A	5/14-LB/OZ	7/02-LB/OZ	8/02-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)	39.1 x 30 x 33	43.6 x 30.1 x 33	45.4 x 35.1 x 38.7	44.9 x 35 x 37.9
Weight - Shipping	225	242	283	293
Weight - Net	190	208	239	247
Start Components	YES	YES	YES	YES
Sound Enclosure	YES	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
Snow Leg - Base & Cap 4" High	BAYLEGS002	BAYLEGS002	BAYLEGS002	BAYLEGS002
Snow Leg - 4" Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003
Hard Start Kit Scroll				
Extreme Condition Mounting Kit	BAYECMT004	BAYECMT004	BAYECMT004	BAYECMT004
Refrigerant Lineset ⑤	TAYREFLN950	TAYREFLN950	TAYREFLN7*	TAYREFLN7*

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 and lifts refer to refrigerant piping software Pub# 32-3312-0†. (†denotes latest revision)
④ For accessory description and usage, see page 5.
⑤ * = 15, 20, 25, 30, 40 and 50 foot lineset available.

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

MODEL	SOUND POWER LEVEL [dB(A)]	A-WEIGHTED FULL OCTAVE SOUND POWER LEVEL dB - [dB(A)] High Stage							
		63	125	250	500	1000	2000	4000	8000
4TWX5018B	72	49.9	55.8	62.8	66.1	65.8	64.7	58.5	53.5
4TWX5024B	72	47.4	54.1	60.2	62.9	67.4	63.6	57.6	49.9
4TWX5030B	72	49.8	57.1	61	65.8	66.3	63.8	60.3	53.5
4TWX5036B	72	47.5	55.4	58.8	65	65.5	61.9	58.6	47.8
4TWX5042A	71	55.1	51.7	59.7	64.9	66.8	62.9	60.4	45.9
4TWX5048A	73	55.2	53.8	60.8	65.4	68.9	66.6	58.8	47.7
4TWX5049E	72	43.7	51.2	54.5	61	61.5	57.1	51.3	40.7
4TWX5060A	74	52.4	54.9	62.1	66.5	71.4	67.2	60.9	49.6
4TWX5061E	74	33.1	56.2	60.1	64.4	66	59.5	54.2	43.5

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

General Data

Product Specifications

Model No. ①	4TWX5042A1	4TWX5048A1	4TWX5049E1	4TWX5060A1	4TWX5061E1
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	26	30	28	36	36
Max Fuse Size (Amps)	45	50	50	60	60
Compressor	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL
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	2.8	1.0	2.8	2.8
Fan HP	1/5	1/3	1/5	1/3	1/3
Fan Dia (inches)	26.6	26.6	27.6	26.6	27.6
Coil	Spine Fin™	Spine Fin™	Spine Fin™	Spine Fin™	Spine Fin™
Refrigerant R-410A	12/01-LB/OZ	12/01-LB/OZ	13/10-LB/OZ	12/01-LB/OZ	13/12-LB/OZ
Line Size - (in.) O.D. Gas ③	3/4	7/8	7/8	7/8	7/8
Line Size - (in.) O.D. Liquid ③	3/8	3/8	3/8	3/8	3/8
Dimensions H x W x D (Crated)	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	57.4 x 35.1 x 38.7
Weight - Shipping	346	364	364	365	365
Weight - Net	298	314	314	315	315
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
Snow Leg - Base & Cap 4" High	BAYLEGS002	BAYLEGS002	BAYLEGS002	BAYLEGS002	BAYLEGS002
Snow Leg - 4" Extension	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003	BAYLEGS003
Hard Start Kit Scroll	BAYKSKT260	BAYKSKT260	BAYKSKT260		
Extreme Condition Mounting Kit	BAYECMT004	BAYECMT004	BAYECMT004	BAYECMT004	BAYECMT004
Refrigerant Lineset ⑤	TAYREFLN7*	TAYREFLN3*	TAYREFLN3*	TAYREFLN3*	TAYREFLN3*

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.
(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

Outdoor Units

4 T W X 5 0 3 6 B 1 0 0 0 A A

Refrigerant Type
2 = R-22
4 = R-410A

TRANE

Product Type
W = Split Heat Pump
T = Split Cooling

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

Family SEER
0 = 10 3 = 13 6 = 16
1 = 11 4 = 14 8 = 18
2 = 12 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

T U Y 0 8 0 R 9 V 3 W 0

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

Type
C = Condensing
D = Induced Draft
E = Electronic Ignition
X = Direct Vent Condensing
Y = Direct Vent Condensing Variable Speed

Heating Input MBTUH
080 = 80,000 BTUH

Major Design Change
C = Single Stage R = Two Stage
All other = Standard System

Power Supply and Fuel
115 Volt Natural Gas

Airflow Capacity for Cooling
Example: 36 = 3 Tons
400 CFM/Ton
400 x 3 Tons = 1200 CFM
V3 = 1 1/2 – 3 Tons, Variable Speed Motor (ICM)
V4 = 2 – 4 Tons, Variable Speed Motor (ICM)
V5 = 3 – 5 Tons, Variable Speed Motor (ICM)

Minor Design Change

Service Digit – Not Orderable

Air Handlers – Residential

4 T E E 3 F 3 6 A 1 0 0 0 A A

Refrigerant Type
4 = R-410A
2 = R-22

Application
TE = Fully Convertible
TG = Semi Convertible
TF = Front Return
TV = Vertical

Product Family
E = Leadership – Variable Speed
P = Leadership
C = Replacement/Retail
B = Basic

Flow Control
3 = Nonbleed TXV
4 = FCCV*

Feature Identifier
0 = Standard Unit
F = Air-Tite™

Nominal Capacity in 000s of BTUs

Major Design Modifications

Power Supply
1 = Single Phase

Electrical Connection
0 = Pig Tails
B = Circuit Breaker
D = Pull Disconnect

Future Option – Factory Installed Heater Nominal KW Value

Minor Design Modifications

Unit Parts Identifier

NOTE: There will be a phase-in of new model numbers for new air handlers over next 2 years.
*Shipped with R-22 FCCV

Furnace Coils

T X C 0 2 4 C 4 H P C 0

Refrigerant Type
T = R-22
R = R-410A
C = Cooling only

Furnace Coils
XA = Uncased "A" Coil Upflow/Downflow
XC = Cased Coil Upflow/Downflow/Horizontal
XH = Cased Horizontal Only
CB = Cased/Brazed Upflow – Cooling Only
UB = Uncased/Brazed Upflow – Cooling Only

Coupling
0 = Braze

Nominal Capacity
Nominal Capacity in 000s of BTUs

Product Family
C = Universal
S = High Efficiency – Nonbleed TXV
E = High Efficiency – Bleed TXV
A = Upflow Only
D = Reverse Airflow

Refrigerant Control
2 = Cap Tube
3 = Nonbleed TXV
4 = ***Accutron™*** Flow Control/Check Valve (FCCV)
5 = Bleed TXV

HP = Heat Pump
00 = Cooling only (7 1/2 to 10 ton)

Minor Design Change

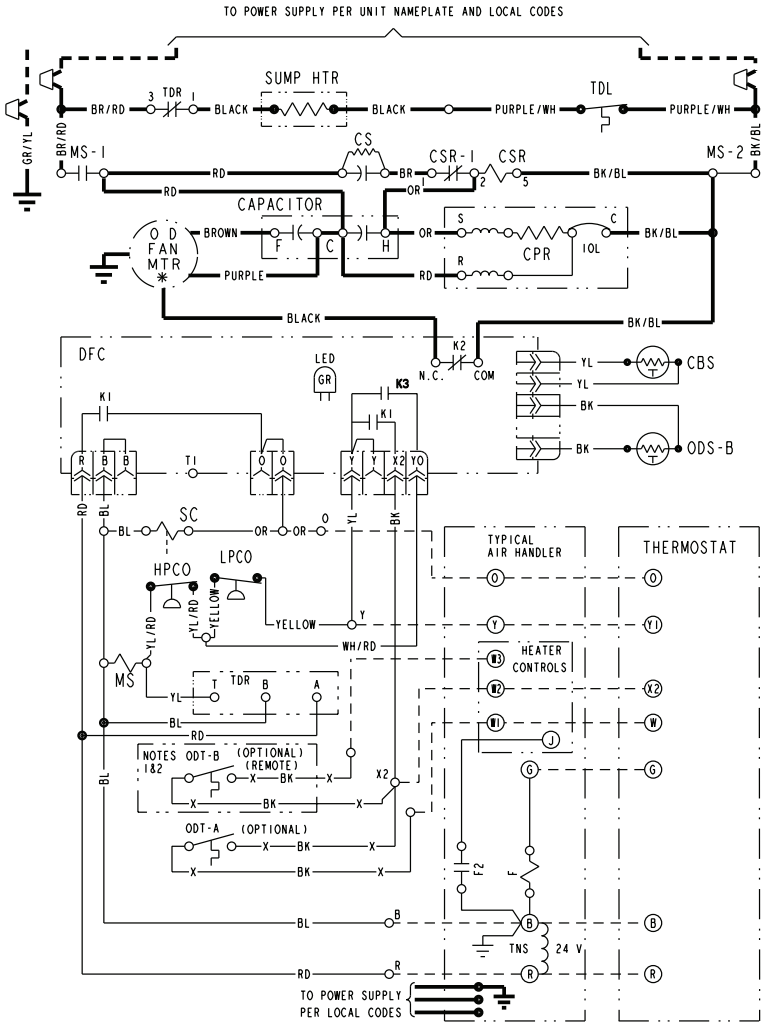
Service Digit – Not Orderable

Electrical Data

Schematic Diagrams

(SEE LEGEND)

4TWX5018, 036B



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	SW 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
	TDR TIME DELAY RELAY

⚠ WARNING	⚠ CAUTION
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
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:

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.

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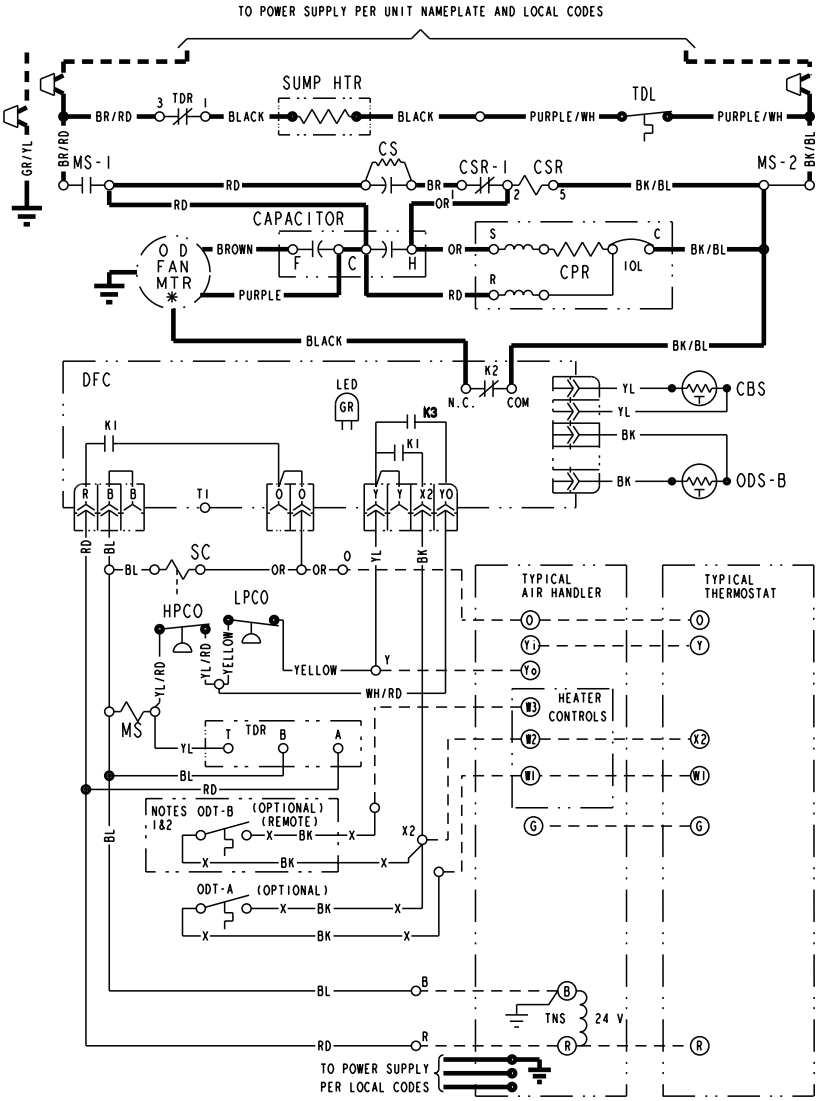
Electrical Data

Schematic Diagrams

(SEE LEGEND)

4TWX5024, 030B



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
		TDR	TIME DELAY RELAY

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FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!	FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!

BK/BL — BLACK WIRE WITH BLUE MARKER
(BK/BL: BK = COLOR OF WIRE, BL = COLOR OF MARKER)

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

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.

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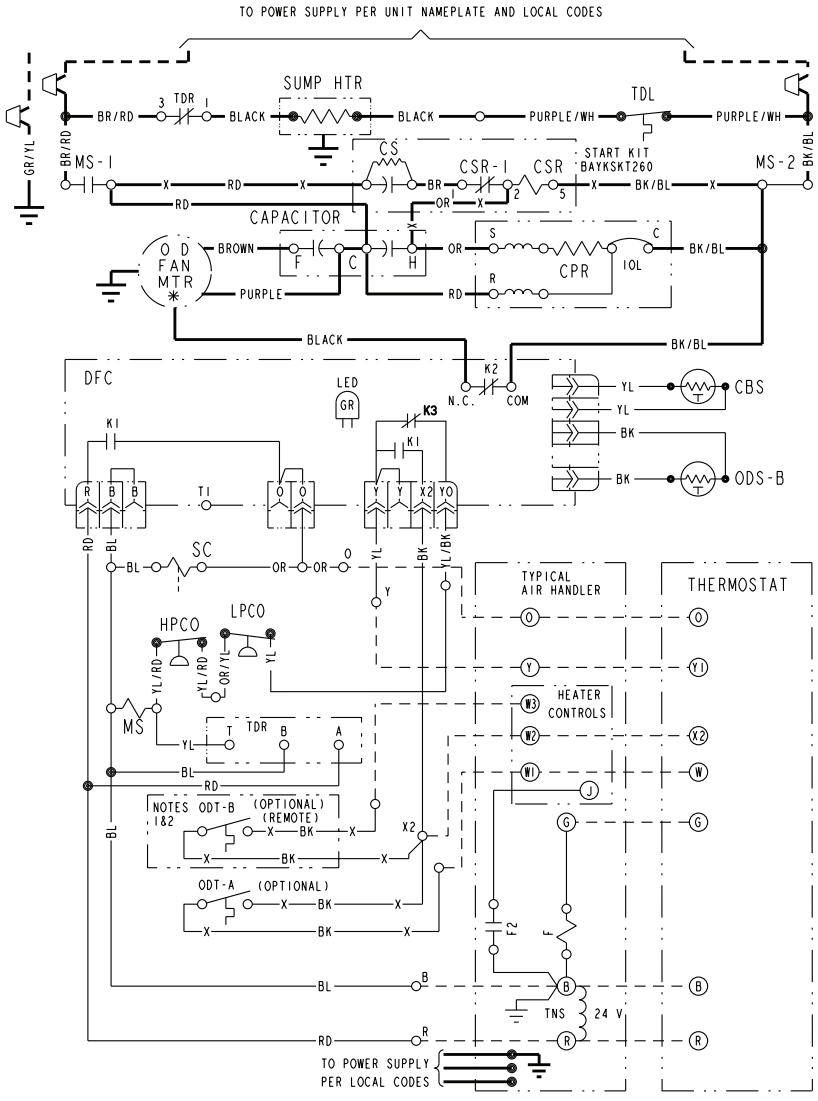
Electrical Data

Schematic Diagrams

(SEE LEGEND)

4TWX5042A



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
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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
		TDR	TIME DELAY RELAY

⚠ WARNING	⚠ CAUTION
HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING. FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!	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
BL	BLUE	RD	RED	GR	GREEN
BR	BROWN	WH	WHITE	PR	PURPLE

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.

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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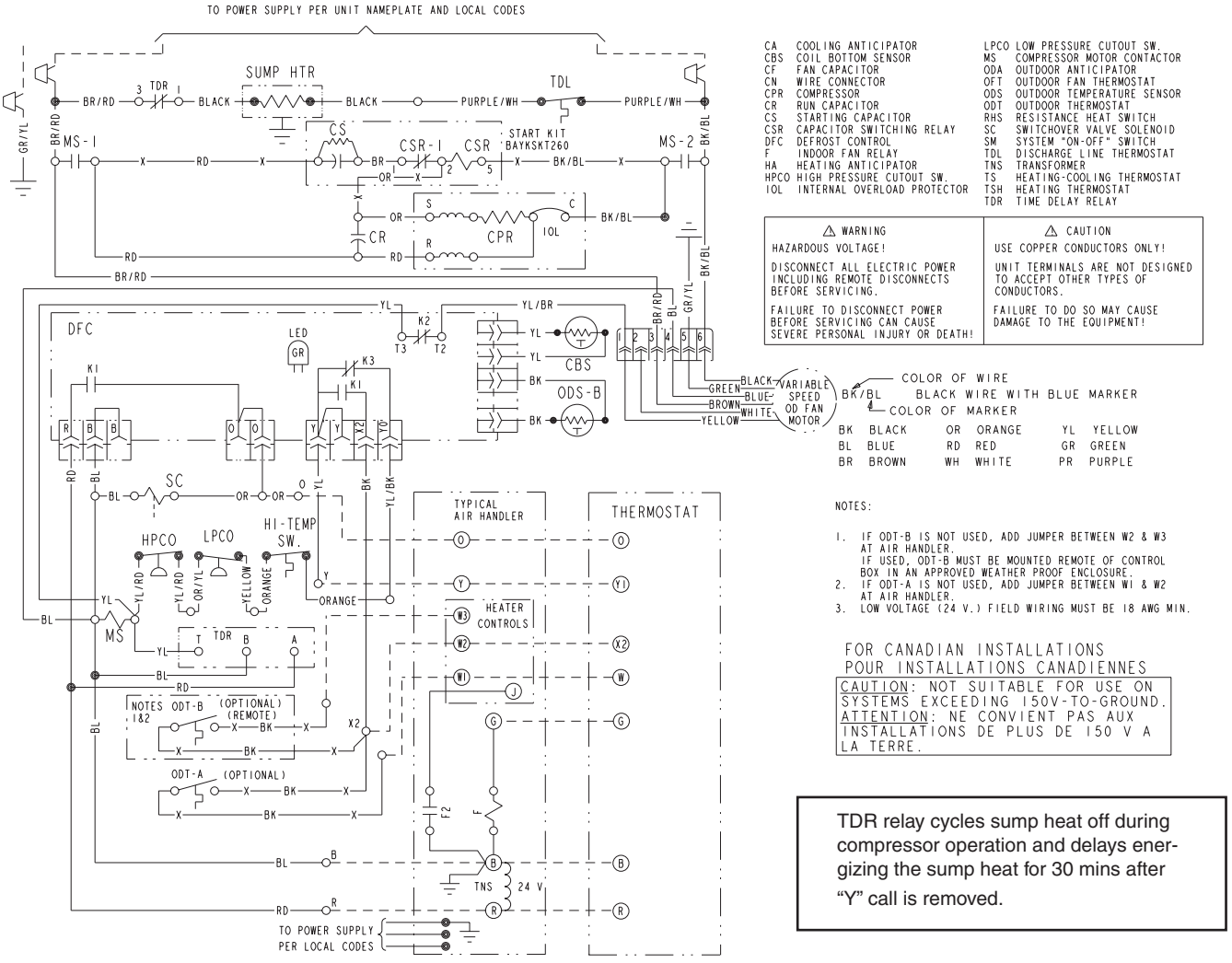
Electrical Data

Schematic Diagrams

(SEE LEGEND)

4TWX5048A



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CBS	COIL BOTTOM SENSOR	MS	COMPRESSOR MOTOR CONTACTOR
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COLOR OF MARKER

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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.

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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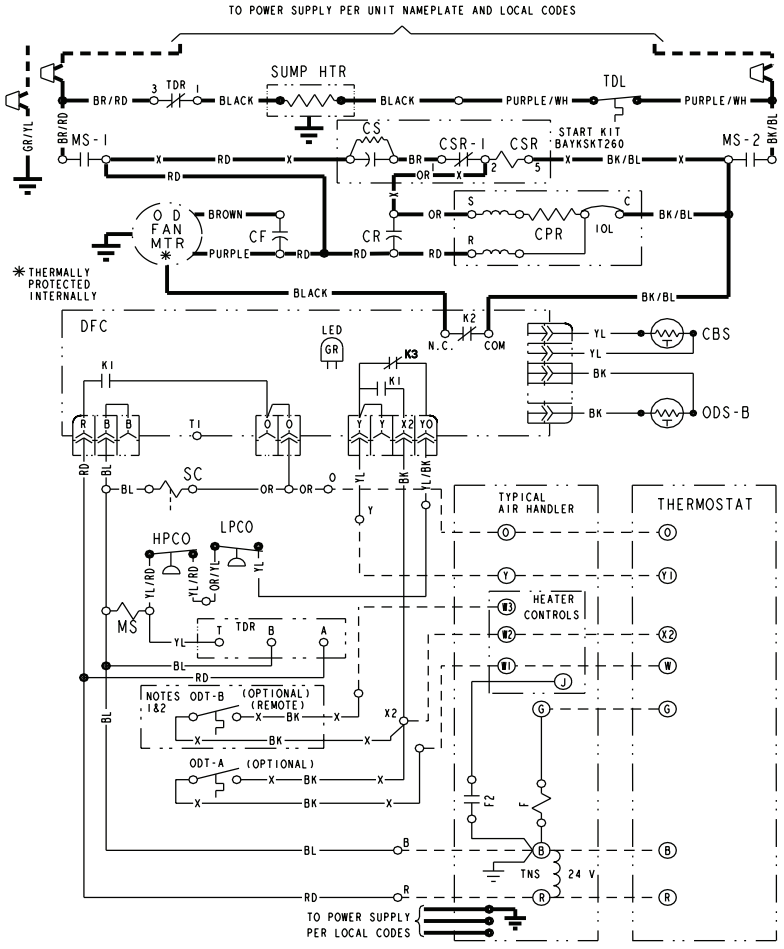
Electrical Data

Schematic Diagrams

(SEE LEGEND)

4TWX5049E



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
		TDR	TIME DELAY RELAY

⚠ WARNING	⚠ CAUTION
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
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:

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.

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

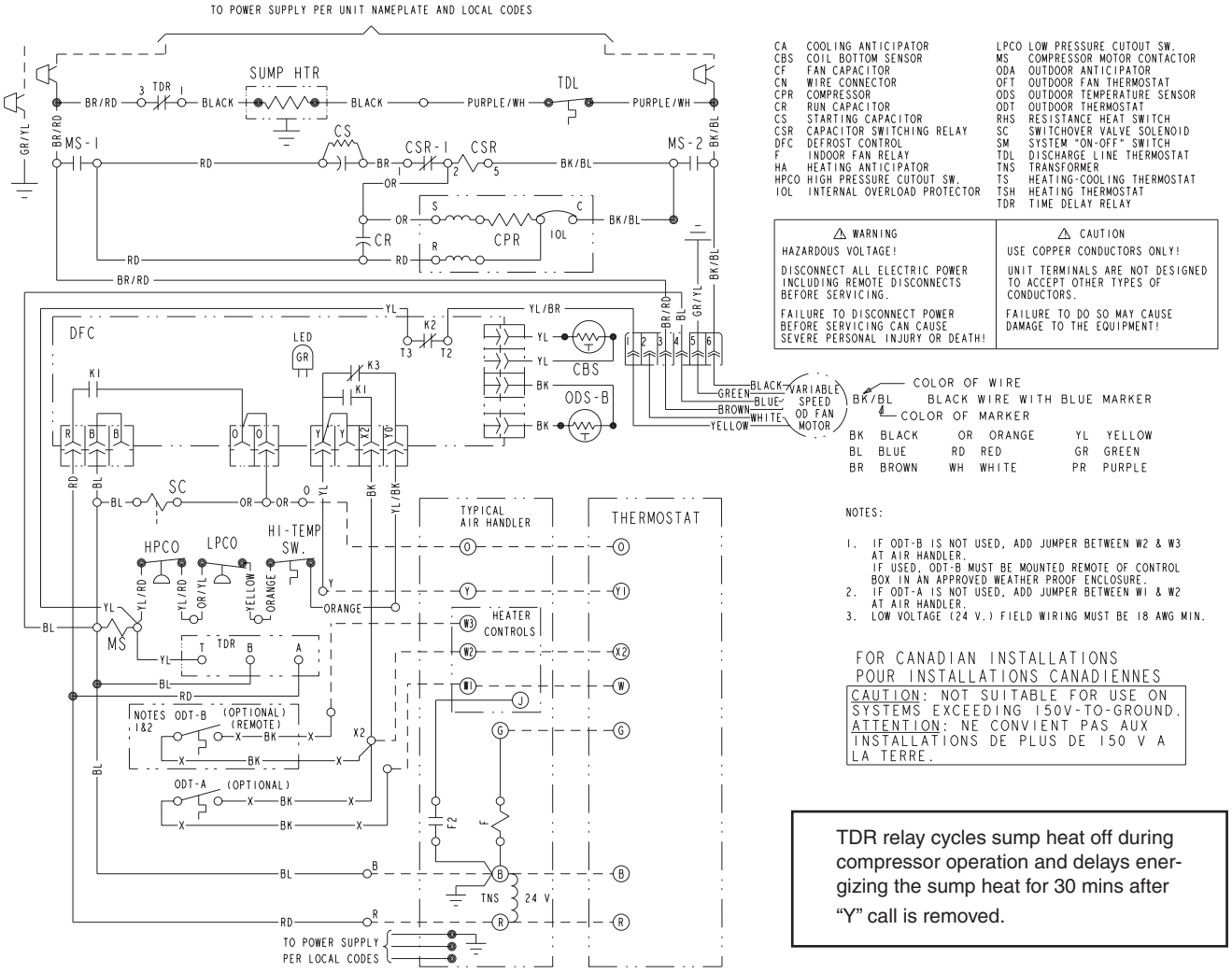
PRINTED FROM D156976P01 REV. 00

Electrical Data

Schematic Diagrams

(SEE LEGEND)

4TWX5060A



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
		TDR	TIME DELAY RELAY

⚠ WARNING	⚠ CAUTION
HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING. FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!	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
BL	BLUE	RD	RED	GR	GREEN
BR	BROWN	WH	WHITE	PR	PURPLE

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.

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

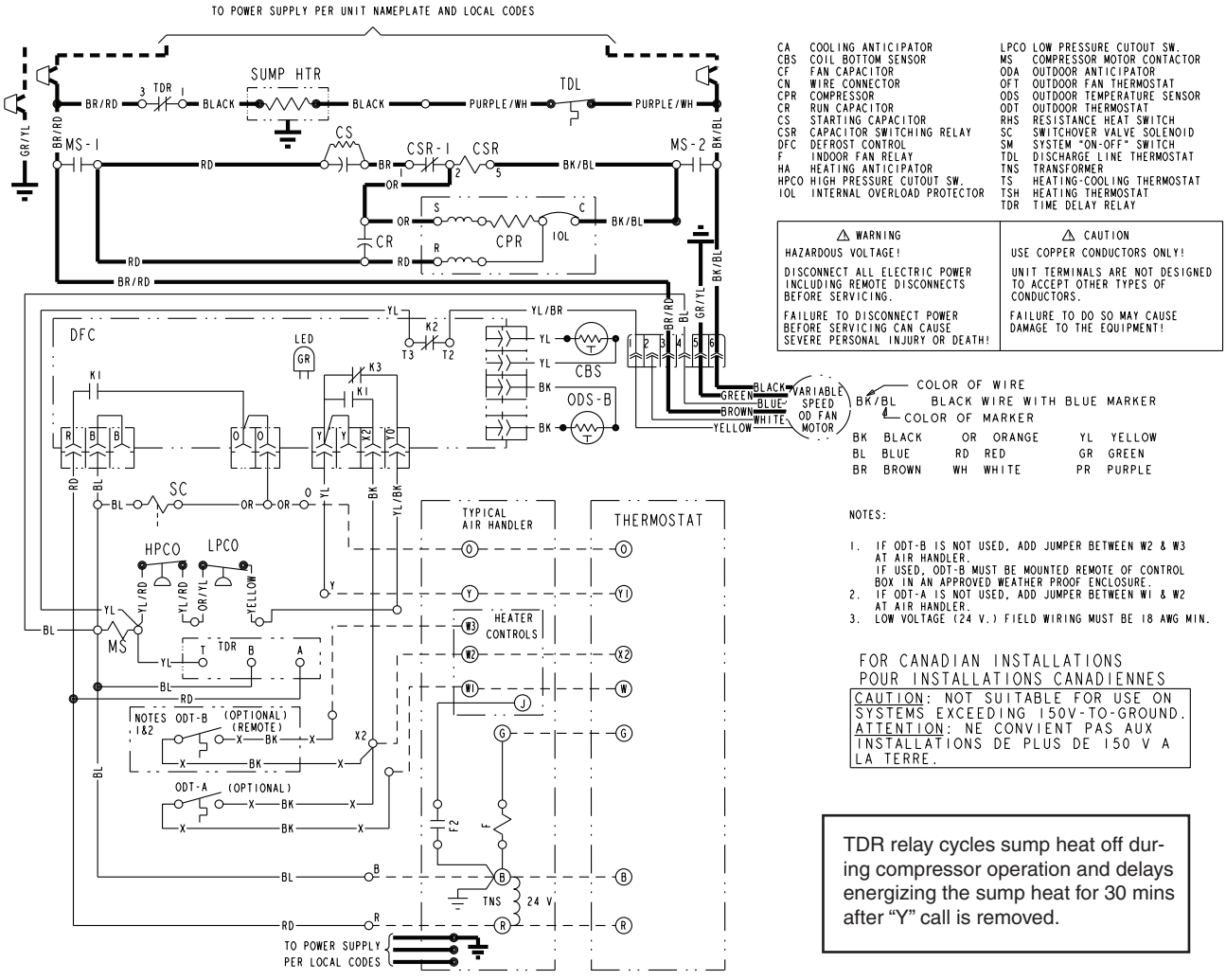
PRINTED FROM D154974P01

Electrical Data

Schematic Diagrams

(SEE LEGEND)

4TWX5061E



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
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DFC	DEFROST CONTROL	SM	SYSTEM "ON-OFF" SWITCH
F	INDOOR FAN RELAY	TDL	DISCHARGE LINE THERMOSTAT
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		TDR	TIME DELAY RELAY

⚠ WARNING	⚠ CAUTION
HAZARDOUS VOLTAGE! DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING. FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!	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
BL	BLUE	RD	RED	GR	GREEN
BR	BROWN	WH	WHITE	PR	PURPLE

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.

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 D154974P02 REV. 00

Dimensions

4TWX5 Outline Drawing

NOTE: ALL DIMENSIONS ARE IN MM (INCHES)

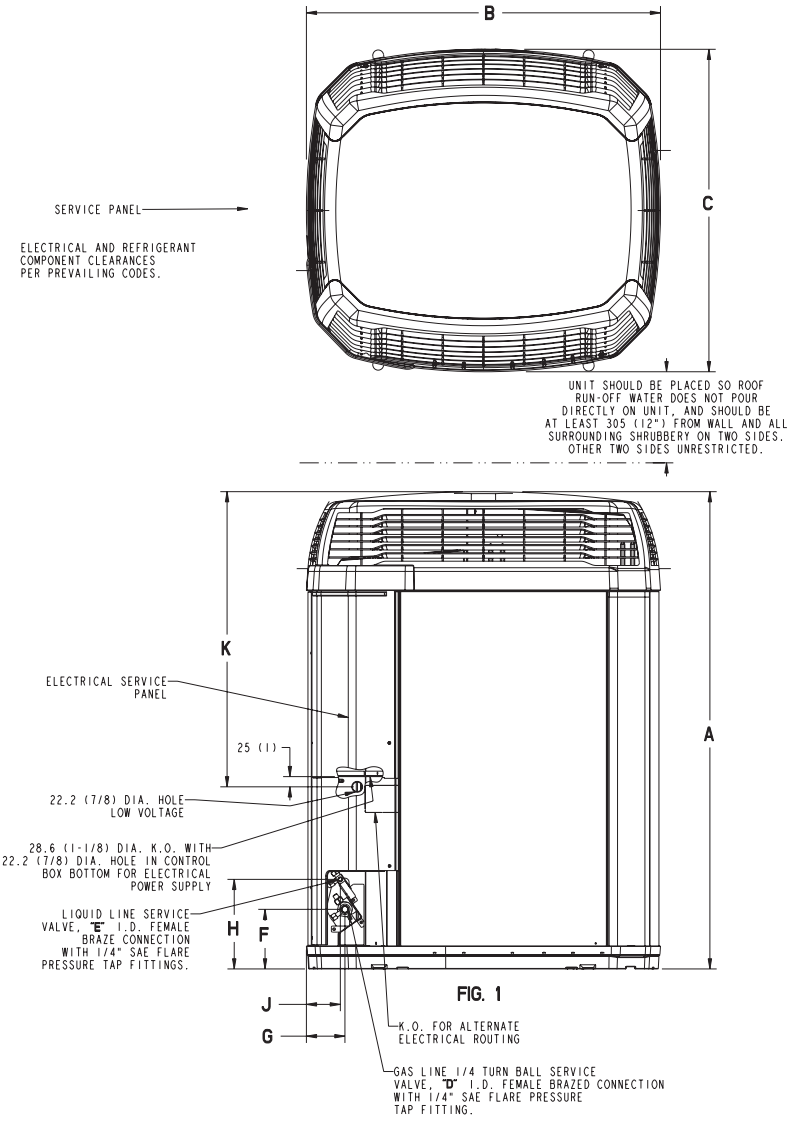

FIG. 1

MODELS	BASE	FIG.	A	B	C	D	E	F	G	H	J	K
4TWX5018B	3	1	933 (36-3/4)	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)
4TWX5024B	3	1	1016 (40)	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)	692 (27-1/4)
4TWX5030B	4	1	1064 (41-7/8)	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)
4TWX5036B	4	1	1064 (41-7/8)	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)
4TWX5042A	4	1	1267 (49-7/8)	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)
4TWX5048A	4	1	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)
4TWX5049E	4	1	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)
4TWX5060A	4	1	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)
4TWX5061E	4	1	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)

From Dwg. 21D152635

Mechanical Specification Options

General
The 4TWX5 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, 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® 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 30°F.

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

Evaporator Defrost Control — See Low Ambient Cooling.

02/12

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