Ducted Split Systems
R410a - 60 Hz
1.5 to 5 Tons

Convertible Air Handlers
1.5 - 5 Tons

TEM3A0B18S21SBA
TEM3A0B24S21SBA
TEM3A0B30S31SBA
TEM3A0B36S31SBA
TEM3A0C42S41SBA
TEM3A0C48S41SBA
TEM3A0C60S51SBB

Condensing Unit
XR16 4TTR6 : 1.5 - 5 Tons

4TTR6018B1000AA	4TTR6018B1SV0AA
4TTR6024B1000AA	4TTR6024B1SV0AA
4TTR6030B1000AA	4TTR6030B1SV0AA
4TTR6036B1000AA	4TTR6036B1SV0AA
4TTR6042B1000AA	4TTR6042B1SV0AA
4TTR6048B1000AA	4TTR6048B1SV0AA
4TTR6060B1000AA	4TTR6060B1SV0AA

SS-PRC040A-EN

Contents

Features and Benefits

Outdoor unit 4TTR6

- CLIMATUFF® compressor
- Efficiency up to 17.0 SEER
- 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, 024 & 030 ship with start kit
- Liquid line filter/drier
- Tarpaulin grey cabinet with anthracite grey badge and cap
- High pressure switch
- Service valve cover
- R-410A refrigerant
- S.E.E.T. design testing
- 100% line run test
- Low ambient cooling to 30°F with AY28X079
- Low ambient cooling to 55°F as shipped

Indoor convertible air handler TEM3

- Painted metal cabinet with captured foil face insulation
- 2% or less air leakage
- R-4.2 Insulating Value
- Multi-Position UP/Down Flow, Horizontal Left /Right
- ALL Aluminum Coil with Enhanced Patented Coil Fin
- Electric Heaters with polarized plug connections (sold as accessory)
- R-410A Thermal Expansion Valve
- ECM Motor (5 Ton Models Only)
- Low Voltage Pigtail Connections
- Draw Through Design
- Horizontal Drain pan
- Single Color
- Fused 24V Power

Important: Condensate management kit is required for all 5 ton air handler models installed in downflow applications.

Optional Equipments

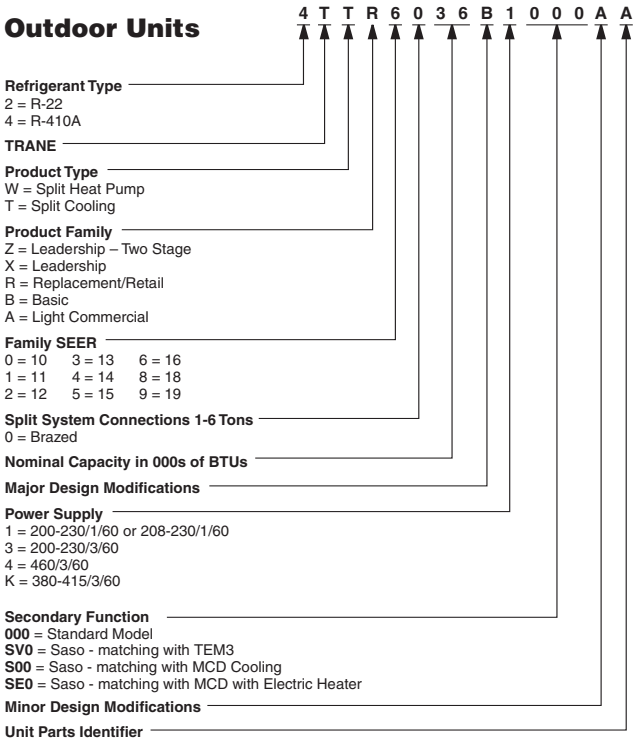
Optional Equipment

Accessory Number	Description	Fits Cabinet Size
BAYHTR1504BRK	Electric Heater, 4KW, Breaker, 24V Control, 1 Ph	18.5″ and 23.5″
BAYHTR1504PDC	Electric Heater, 4KW, Pull Disconnect, 24V Control, 1 Ph	18.5″ and 23.5″
BAYHTR1504LUG	Electric Heater, 4KW, Lug, 24V Control, 1 Ph	18.5″ and 23.5″
BAYHTR1505BRK	Electric Heater, 5KW, Breaker, 24V Control, 1 Ph	18.5″ and 23.5″
BAYHTR1505PDC	Electric Heater, 5KW, Pull Disconnect, 24V Control, 1 Ph	18.5″ and 23.5″
BAYHTR1505LUG	Electric Heater, 5KW, Lug, 24V Control, 1 Ph	18.5″ and 23.5″
BAYHTR1508BRK	Electric Heater, 4KW, Breaker, 24V Control, 1 Ph	18.5″ and 23.5″
BAYHTR1508PDC	Electric Heater, 8KW, Pull Disconnect, 24V Control, 1 Ph	18.5″ and 23.5″
BAYHTR1508LUG	Electric Heater, 8KW, Lug, 24V Control, 1 Ph	18.5″ and 23.5″
BAYHTR1510BRK	Electric Heater, 10KW, Breaker, 24V Control, 1 Ph	18.5″ and 23.5″
BAYHTR1510PDC	Electric Heater, 10KW, Pull Disconnect, 24V Control, 1 Ph	18.5″ and 23.5″
BAYHTR3510LUG	Electric Heater, 10KW, Lug, 24V Control, 3 Ph	18.5″ and 23.5″
BAYHTR3515LUG	Electric Heater, 10KW, Lug, 24V Control, 3 Ph	18.5″ and 23.5″
BAYHTR1515BRK	Electric Heater, 15KW, Breaker, 24V Control, 1 Ph	18.5″ and 23.5″
BAYHTR3515LUG	Electric Heater, 15KW, Lug, 24V Control, 3 Ph	18.5″ and 23.5″
BAYHTR1519BRK	Electric Heater, 20KW, Breaker, 24V Control, 1 Ph	18.5″ and 23.5″
BAYHTR1520BRK	Electric Heater, 20KW, Breaker, 24V Control, 1 Ph	18.5″
BAYTEMSPFG1A	Supply Duct Flange Kit	23.5″
BAYSPEKT201A	Single Point Power Entry Kit	18.5″ and 23.5″
BAYTEMDFKT1A [a]	Downflow Condensate Management Kit	23.5″ (5 Ton only)
TAYBASE185	Air Handler Downflow Sub-Bases	18.5″
TAYBASE235 (TAYBASE 100)	Air Handler Downflow Sub-Bases	23.5″

[a] Required with all 5–ton air handler models in downflow orientation.

Nomenclature

Outdoor Units



Air Handler - Residential

General Data 4TTR6

Product Specifications

Model No. ①	**4TTR6018B1000AA**	**4TTR6024B1000AA**	**4TTR6030B1000AA**	**4TTR6036B1000AA**
Model No. ①	**4TTR6018B1SV0AA**	**4TTR6024B1SV0AA**	**4TTR6030B1SV0AA**	**4TTR6036B1SV0AA**
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	9	12	19
Max Fuse Size (Amps)	15	15	20	30
Compressors	CLIMATUFF®	CLIMATUFF®	CLIMATUFF®	CLIMATUFF® - SCROLL
No. Used - No. Stages	1-1	1-1	1-1	1-1
RL AMPS - LR AMPS	6.4 - 38.6	6.8 - 38.6	9.1 - 57.8	14.1 - 77
Outdoor Fan FL Amps	0.74	0.74	0.93	0.93
Fan HP	1/8	1/8	1/5	1/5
Fan Dia (inches)	23	23	27.6	27.6
Coil	Spine Fin™	Spine Fin™	Spine Fin™	Spine Fin™
Refrigerant R-410A	5/2-LB/OZ	6/3-LB/OZ	7/0-LB/OZ	7/4-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	34 x 30.1 x 33	38.4 x 35.1 x 38.7	42.4 x 35.1 x 38.7
Weight - Shipping	200	201	234	228
Weight - Net	173	174	201	193
Start Components	YES	YES	YES	NO
Sound Enclosure	YES	YES	YES	YES
Compressor Sump Heat	NO	NO	NO	NO
Optional Accessories: ④				
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A	TAYASCT501A
Evaporator Defrost Control A/C	AY28X079	AY28X079	AY28X079	AY28X079
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101	BAYISLT101
Crank Case Heater Kit	BAYCCHT300A	BAYCCHT300A	BAYCCHT300A	BAYCCHT302A
Hard Start Kit Scroll				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
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001	BAYSEAC001
Refrigerant Lineset ⑤	TAYREFLN950	TAYREFLN7*	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 - 80'. 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.

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**
4TTR6018B1	75	51	61	65	74	74	72	61	51
4TTR6024B1	75	49	62	66	74	74	69	62	54
4TTR6030B1	75	54	69	72	78	76	72	64	54
4TTR6036B1	75	49	68	73	76	74	70	62	51
4TTR6042B1	75	49	69	74	77	75	70	62	51
4TTR6048B1	75	49	69	74	77	75	70	62	51
4TTR6060B1	75	49	69	74	77	75	70	62	51

Note: Rated in accordance with AHRI Standard 270-2008

General Data 4TTR6

Product Specifications

Model No. ①	**4TTR6042B1000AA**	**4TTR6048B1000AA**	**4TTR6060B1000AA**
Model No. ①	**4TTR6042B1SV0AA**	**4TTR6048B1SV0AA**	**4TTR6060B1SV0AA**
Electrical Data V/Ph/Hz ②	208/230/1/60	208/230/1/60	208/230/1/60
Min Cir Ampacity	23	26	34
Max Fuse Size (Amps)	40	45	60
Compressors	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL	CLIMATUFF® - SCROLL
No. Used - No. Stages	1-1	1-1	1-1
RL AMPS - LR AMPS	17.9 - 112	19.9 - 109	26.4 - 134
Outdoor Fan FL Amps	0.93	0.93	0.93
Fan HP	1/5	1/5	1/5
Fan Dia (inches)	27.6	27.6	27.6
Coil	Spine Fin™	Spine Fin™	Spine Fin™
Refrigerant R-410A	8/4-LB/OZ	8/5-LB/OZ	8/8-LB/OZ
Line Size - (in.) O.D. Gas ③	7/8	7/8	7/8
Line Size - (in.) O.D. Liquid ③	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
Weight - Shipping	272	282	285
Weight - Net	235	245	248
Start Components	NO	NO	NO
Sound Enclosure	YES	YES	YES
Compressor Sump Heat	NO	NO	NO
Optional Accessories: ④			
Anti-short Cycle Timer	TAYASCT501A	TAYASCT501A	TAYASCT501A
Evaporator Defrost Control A/C	AY28X079	AY28X079	AY28X079
Rubber Isolator Kit	BAYISLT101	BAYISLT101	BAYISLT101
Crank Case Heater Kit	BAYCCHT301A	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
Seacoast Kit	BAYSEAC001	BAYSEAC001	BAYSEAC001
Refrigerant Lineset ⑤	TAYREFLN3*	TAYREFLN3*	TAYREFLN3*

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 061 units, Max. linear length 60 ft.; Max. lift - Suction 25 ft.; Max lift - Liquid 25 ft. 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.

General Data 4TTR6

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 freezB-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.

SASO Certification

The Saudi Standards, Metrology and Quality Org.(SASO) has certified Trane Ingersoll Rand Climate Solutions to use the energy efficiency label according to SASO 2663/2012 (Phase 2) for the following products:

		The Product	Model's number	Mark's name	Number of Stars	License number	EER	KWH Per Year
		Air Conditioner	TEM3A0B18S21SBA 4TTR6018B1SV0AA	TRANE	6	AC101402880	12.16	3,834
		Air Conditioner	TEM3A0B24S21SBA 4TTR6024B1SV0AA	TRANE	6	AC101402882	12.5	4,455
		Air Conditioner	TEM3A0B30S31SBA 4TTR6030B1SV0AA	TRANE	6	AC101402884	12.095	6,318
		Air Conditioner	TEM3A0B36S21SBA 4TTR6036B1SV0AA	TRANE	6	AC101402886	11.755	7,344
		Air Conditioner	TEM3A0C42S41SBA 4TTR6042B1SV0AA	TRANE	6	AC101402889	11.581	8,991
		Air Conditioner	TEM3A0C48S41SBA 4TTR6048B1SV0AA	TRANE	6	AC101402891	12.192	9,801
		Air Conditioner	TEM3A0C60S51SBB 4TTR6060B1SV0AA	TRANE	6	AC101402893	11.594	13,095

General Data TEM3

Product Specifications

MODEL	TEM3A0B18S21SBA	TEM3A0B24S21SBA	TEM3A0B30S31SBA	TEM3A0B36S31SBA
RATED VOLTS/PH/HZ	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
RATINGS **(a)**	See O.D. Specifications	See O.D. Specifications	See O.D. Specifications	See O.D. Specifications
INDOOR **COIL** — Type	Plate Fin	Plate Fin	Plate Fin	Plate Fin
Rows — F.P.I.	3 - 14	3 - 14	3 - 14	3 - 14
Face Area (sq. ft.)	4.37	4.37	4.37	4.37
Tube Size (in.)	3/8	3/8	3/8	3/8
Refrigerant Control	TXV	TXV	TXV	TXV
Drain Conn. Size (in.) (b)	3/4 NPT	3/4 NPT	3/4 NPT	3/4 NPT
DUCT CONNECTIONS	See Outline Drawing	See Outline Drawing	See Outline Drawing	See Outline Drawing
INDOOR FAN — Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Diameter- Width (In.)	9 X 7	9 X 7	10 X 8	10 X 8
No. Used	1	1	1	1
Drive - No. Speeds	Direct - 3	Direct - 3	Direct - 3	Direct - 3
CFM vs. in. w.g.	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table	Fan Performance Table
No. Motors — H.P.	1 - 1/4	1 - 1/4	1 - 1/2	1 - 1/2
Motor Speed R.P.M.	1075	1075	1075	1075
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
F.L. Amps	1.3	1.3	2.5	2.5
FILTER				
Filter Furnished? (c)	No	No	No	No
REFRIGERANT	**R-410A**	**R-410A**	**R-410A**	**R-410A**
Ref. Line Connections	Brazed	Brazed	Brazed	Brazed
Coupling or Conn. Size — in. Gas	3/4	3/4	3/4	3/4
Coupling or Conn. Size — in. Liq.	3/8	3/8	3/8	3/8
DIMENSIONS	H x W x D	H x W x D	H x W x D	H x W x D
Crated (In.)	46 x 21 x 24	46 x 21 x 24	46 x 21 x 24	46 x 21 x 24
Uncrated	45-1/8 x 18-1/2 x 21-1/8	45-1/8 x 18-1/2 x 21-1/8	45-1/8 x 18-1/2 x 21-1/8	45-31/8 x 18-1/2 x 21-1/8
WEIGHT				
Shipping (Lbs.) / Net (Lbs.)	116/110	116/110	116/110	116/110

(a) These Air Handlers are A.H.R.I certified with various Split System Air Conditioners and Heat Pumps (AHRI STANDARD210/240). Refer to the Split System Outdoor Unit Product Data Guides for performance data.
(b) 3/4" Male Plastic Pipe (Ref: ASTM1785–76)
(c) Remote filter required.

General Data TEM3

Product Specifications

MODEL	TEM3A0C42S41SBA	TEM3A0C48S41SBA	TEM3A0C60S51SBB
RATED VOLTS/PH/HZ	208-230/1/60	208-230/1/60	208-230/1/60
RATINGS (a)	See O.D. Specifications	See O.D. Specifications	See O.D. Specifications
INDOOR COIL — Type	Plate Fin	Plate Fin	Plate Fin
Rows — F.P.I.	3 - 14	3 - 14	4 - 14
Face Area (sq. ft.)	5.50	5.50	5.91
Tube Size (in.)	3/8	3/8	3/8
Refrigerant Control	TXV	TXV	TXV
Drain Conn. Size (in.) (b)	3/4 NPT	3/4 NPT	3/4 NPT
DUCT CONNECTIONS	See Outline Drawing	See Outline Drawing	See Outline Drawing
INDOOR FAN — Type	Centrifugal	Centrifugal	Centrifugal
Diameter- Width (In.)	10 X 10	10 X 10	11 X 10
No. Used	1	1	1
Drive - No. Speeds	Direct - 3	Direct - 3	Direct - 3 (c)
CFMvs. in. w.g.	See Fan Performance Table	See Fan Performance Table	See Fan Performance Table
No. Motors — H.P.	1 - 1/2	1 - 1/2	1 - 3/4
Motor Speed R.P.M.	1075	1075	1050
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60
F.L. Amps	2.6	2.6	6.3
FILTER			
Filter Furnished? (d)	No	No	No
REFRIGERANT	**R-410A**	**R**-410A	**R-410A**
Ref. Line Connections	Brazed	Brazed	Brazed
Coupling or Conn. Size — in. Gas	7/8	7/8	7/8
Coupling or Conn. Size — in. Liq.	3/8	3/8	3/8
DIMENSIONS	H x W x D	H x W x D	H x W x D
Crated (In.)	52–1/2 x 26 x 24	52–1/2 x 26 x 24	52–1/2 x 26 x 24
Uncrated	51-3/8 x 23-1/2 x 21-1/8	51-3/8 x 23-1/2 x 21-1/8	51-3/8 x 23-1/2 x 21-1/8
WEIGHT			
Shipping (Lbs.) / Net (Lbs.)	145/138	145/138	145/138

(a) These Air Handlers are A.H.R.I certified with various Split System Air Conditioners and Heat Pumps (AHRI STANDARD210/240). Refer to the Split System Outdoor Unit Product Data Guides for performance data.
(b) 3/4" Male Plastic Pipe (Ref: ASTM1785–76)
(c) ECMmotor
(d) Remote filter required.

Heater Pressure Drop Table
TEM3 Air Handler Models

Airflow CFM	Number of Racks					Heater Racks	
	1	2	3	4		Heater Model	No. of Racks
	Air Pressure Drop — Inches W.G.					BAYHTR1504	1
1800	0.02	0.04	0.06	0.14		BAYHTR1505	1
1700	0.02	0.04	0.06	0.14		BAYHTR1508	2
1600	0.02	0.04	0.06	0.13		BAYHTR1510	2
1500	0.02	0.04	0.06	0.12		BAYHTR3510	3
1400	0.02	0.04	0.06	0.12		BAYHTR1515	3
1300	0.02	0.04	0.05	0.11		BAYHTR3515	3
1200	0.01	0.04	0.05	0.10		BAYHTR1519	4
1100	0.01	0.03	0.05	0.09		BAYHTR1520	4
1000	0.01	0.03	0.04	0.09		BAYHTR1521	4
900	0.01	0.03	0.04	0.08			
800	0.01	0.03					
700	0.01	0.02					
600	0.01	0.02					

Minimum Airflow CFM

TEM3A0B18S21SBA, TEM3A0B24S21SBA		
Heater	**Minimum Heat Speed Tap**	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504PDC, BAYHTR1504LUG, BAYHTR1505BRK, BAYHTR1505PDC, BAYHTR1505LUG	Low	Low
BAYHTR1508BRK, BAYHTR1508PDC, BAYHTR1508LUG, BAYHTR1510BRK, BAYHTR1510PDC, BAYHTR1510LUG, BAYHTR3510LUG	Low	Low

TEM3A0B30S31SBA, TEM3A0B36S31SBA		
Heater	**Minimum Heat Speed Tap**	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504PDC, BAYHTR1504LUG, BAYHTR1505BRK, BAYHTR1505PDC, BAYHTR1505LUG	Low	Low
BAYHTR1508BRK, BAYHTR1508PDC, BAYHTR1508LUG, BAYHTR1510BRK, BAYHTR1510PDC, BAYHTR1510LUG, BAYHTR3510LUG	Low	Low
BAYHTR1515BRK, BAYHTR3515LUG, BAYHTR1519BRK	Low	Low

TEM3A0C42S41SBA, TEM3A0C48S41SBA		
Heater	**Minimum Heat Speed Tap**	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504PDC, BAYHTR1504LUG, BAYHTR1505BRK, BAYHTR1505PDC, BAYHTR1505LUG	Low	Low
BAYHTR1508BRK, BAYHTR1508PDC, BAYHTR1508LUG, BAYHTR1510BRK, BAYHTR1510PDC, BAYHTR1510LUG, BAYHTR3510LUG	Low	Low
BAYHTR1515BRK, BAYHTR3515LUG, BAYHTR1520BRK	Low	Low

TEM3A0C60S51SBB		
Heater	**Minimum Heat Speed Tap**	
	With Heat Pump	Without Heat Pump
BAYHTR1504BRK, BAYHTR1504PDC, BAYHTR1504LUG, BAYHTR1505BRK, BAYHTR1505PDC, BAYHTR1505LUG	Low	Low
BAYHTR1508BRK, BAYHTR1508PDC, BAYHTR1508LUG, BAYHTR1510BRK, BAYHTR1510PDC, BAYHTR1510LUG, BAYHTR3510LUG	Low	Low
BAYHTR1515BRK, BAYHTR3515LUG, BAYHTR1520BRK	Low	Low
Low = Taps 1–3		

Performance Data Cooling

High Speed---U.S. (English)

Capacities are net in Btuh/1000 - indoor fan heat deducted

Outdoor Model	4TTR6024B1
Indoor Model	TEM3A0B24S21+TDR
ARIREF	5918146
Airflow	800

Values At ARI Rating Conditions		**Correction Factors - Other Airflows**		
Total Net Capacity	21000 Btu/h	**Airflow**	650	950
Airflow	650 CFM	**Total Capacity**	0.97	1.03
Compressor Power	1360 watts	**Sensible Capacity**	0.90	1.11
Indoor Fan Power	192 watts	**Compressor Kw**	0.99	1.01
Outdoor Fan Power	128 watts			
SEER	15.00			
EER	13.00			

Rated with 25 Feet 3/4 suction 3/8 liquid lines

O.D.D.B.	I.D.W.B.	TOTAL CAPACITY	SENSIBLE CAPACITY				SYSTEM
			72	75	78	80	Kw
85	59	20.90	18.40	20.45	20.90	20.90	1.45
85	63	21.90	14.90	17.30	19.70	21.30	1.46
85	67	23.40	11.40	13.90	16.30	17.90	1.47
95	59	19.50	17.80	19.45	19.50	19.50	1.61
95	63	20.50	14.30	16.70	19.10	20.50	1.62
95	67	21.90	10.90	13.30	15.70	17.30	1.63
105	63	19.00	13.70	16.10	18.50	19.00	1.78
105	67	20.30	10.30	12.70	15.10	16.70	1.80
105	71	22.10	7.00	9.45	11.90	13.50	1.81
115	63	17.60	13.10	15.60	17.60	17.60	1.94
115	67	18.80	9.80	12.20	14.60	16.20	1.96
115	71	20.40	6.50	8.90	11.30	12.90	1.98
*** 95	67	21.90	IDDB=	80.00	17.30		1.63

***** Performance at selected design conditions**

*** Dry coil condition (Total Capacity = Sensible Capacity)**

Total capacity, compressor Kw and app. dew point valid only for wetcoil

All temperatures in Degree F

Performance Data Cooling

High Speed---U.S. (English)

Capacities are net in Btuh/1000 - indoor fan heat deducted

Outdoor Model	4TTR6024B1
Indoor Model	TEM3A0B24S21+TDR
ARIREF	5918146
Airflow	800

Values At ARI Rating Conditions		**Correction Factors - Other Airflows**		
Total Net Capacity	21000 Btu/h	**Airflow**	650	950
Airflow	650 CFM	**Total Capacity**	0.97	1.03
Compressor Power	1360 watts	**Sensible Capacity**	0.90	1.11
Indoor Fan Power	192 watts	**Compressor Kw**	0.99	1.01
Outdoor Fan Power	128 watts			
SEER	15.00			
EER	13.00			

Rated with 25 Feet 3/4 suction 3/8 liquid lines

O.D.D.B.	I.D.W.B.	TOTAL CAPACITY	SENSIBLE CAPACITY				SYSTEM
			72	75	78	80	Kw
85	59	20.90	18.40	20.45	20.90	20.90	1.45
85	63	21.90	14.90	17.30	19.70	21.30	1.46
85	67	23.40	11.40	13.90	16.30	17.90	1.47
95	59	19.50	17.80	19.45	19.50	19.50	1.61
95	63	20.50	14.30	16.70	19.10	20.50	1.62
95	67	21.90	10.90	13.30	15.70	17.30	1.63
105	63	19.00	13.70	16.10	18.50	19.00	1.78
105	67	20.30	10.30	12.70	15.10	16.70	1.80
105	71	22.10	7.00	9.45	11.90	13.50	1.81
115	63	17.60	13.10	15.60	17.60	17.60	1.94
115	67	18.80	9.80	12.20	14.60	16.20	1.96
115	71	20.40	6.50	8.90	11.30	12.90	1.98
*** 95	67	21.90	IDDB=	80.00	17.30		1.63

***** Performance at selected design conditions**

*** Dry coil condition (Total Capacity = Sensible Capacity)**

Total capacity, compressor Kw and app. dew point valid only for wetcoil

All temperatures in Degree F

Performance Data Cooling

High Speed---U.S. (English)

Capacities are net in Btuh/1000 - indoor fan heat deducted

Outdoor Model	4TTR6030B1
Indoor Model	TEM3A0B30S31+TDR
ARIREF	5918147
Airflow	1000

Values At ARI Rating Conditions		**Correction Factors - Other Airflows**		
Total Net Capacity	28400 Btu/h	**Airflow**	**875**	**1125**
Airflow	900 CFM	**Total Capacity**	0.98	1.02
Compressor Power	1854 watts	**Sensible Capacity**	0.93	1.07
Indoor Fan Power	291 watts	**Compressor Kw**	0.99	1.01
Outdoor Fan Power	222 watts			
SEER	14.50			
EER	12.39			

Rated with 25 Feet 3/4 suction 3/8 liquid lines

O.D.D.B.	I.D.W.B.	TOTAL CAPACITY	SENSIBLE CAPACITY				SYSTEM
			72	75	78	80	Kw
85	59	27.50	23.40	26.40	27.50	27.50	2.05
85	63	28.80	19.00	22.00	25.00	26.90	2.07
85	67	30.80	14.70	17.70	20.70	22.70	2.09
95	59	25.90	22.70	25.30	25.90	25.90	2.30
95	63	27.10	18.30	21.30	24.30	26.30	2.32
95	67	29.00	14.10	17.10	20.00	22.00	2.34
105	63	25.40	17.60	20.60	23.60	25.40	2.57
105	67	27.10	13.40	16.35	19.30	21.30	2.59
105	71	29.40	9.30	12.30	15.30	17.20	2.61
115	63	23.70	16.90	19.90	22.90	23.70	2.81
115	67	25.30	12.70	15.70	18.70	20.70	2.84
115	71	27.40	8.60	11.60	14.60	16.60	2.87
*** 95	67	29.00	IDDB=	80.00	22.00		2.34

***** Performance at selected design conditions**

*** Dry coil condition (Total Capacity = Sensible Capacity)**

Total capacity, compressor Kw and app. dew point valid only for wetcoil

All temperatures in Degree F

Performance Data Cooling

High Speed---U.S. (English)

Capacities are net in Btuh/1000 - indoor fan heat deducted

Outdoor Model	4TTR6036B1
Indoor Model	TEM3A0B36S31+TDR
ARIREF	5918149
Airflow	1200

Values At ARI Rating Conditions	
Total Net Capacity	33200 Btu/h
Airflow	950 CFM
Compressor Power	2238 watts
Indoor Fan Power	306 watts
Outdoor Fan Power	223 watts
SEER	14.50
EER	12.21

Correction Factors - Other Airflows		
Airflow	**950**	**1450**
Total Capacity	0.97	1.03
Sensible Capacity	0.88	1.12
Compressor Kw	0.99	1.01

Rated with 25 Feet 3/4 suction 3/8 liquid lines

O.D.D.B.	I.D.W.B.	TOTAL CAPACITY	SENSIBLE CAPACITY				SYSTEM
			72	75	78	80	Kw
85	59	32.60	27.50	30.95	32.60	32.60	2.32
85	63	34.10	22.30	25.80	29.30	31.60	2.34
85	67	36.50	17.40	20.85	24.40	26.70	2.36
95	59	31.00	26.80	30.05	31.00	31.00	2.63
95	63	32.50	21.70	25.15	28.60	30.90	2.66
95	67	34.80	16.80	20.25	23.70	26.00	2.68
105	63	31.00	21.10	24.55	28.00	30.30	2.97
105	67	33.10	16.10	19.65	23.10	25.40	3.00
105	71	35.90	11.40	14.85	18.30	20.70	3.03
115	63	29.40	20.40	23.90	27.40	29.40	3.29
115	67	31.40	15.50	19.00	22.50	24.80	3.32
115	71	34.10	10.80	14.25	17.70	20.10	3.35
*** 95	67	34.80	IDDB=	80.00	26.00		2.68

***** Performance at selected design conditions**

*** Dry coil condition (Total Capacity = Sensible Capacity)**

Total capacity, compressor Kw and app. dew point valid only for wetcoil

All temperatures in Degree F

Performance Data Cooling

High Speed---U.S. (English)

Capacities are net in Btuh /1000 - indoor fan heat deducted

Outdoor Model	4TTR6042B1
Indoor Model	TEM3A0C42S41+TDR
ARIREF	5918150
Airflow	1400

Values At ARI Rating Conditions	
Total Net Capacity	40500 Btu/h
Airflow	1250 CFM
Compressor Power	2766 watts
Indoor Fan Power	398 watts
Outdoor Fan Power	211 watts
SEER	14.50
EER	12.16

Correction Factors - Other Airflows		
Airflow	**1225**	**1575**
Total Capacity	0.98	1.02
Sensible Capacity	0.93	1.07
Compressor Kw	0.99	1.01

Rated with 25 Feet 7/8 suction 3/8 liquid lines

O.D.D.B.	I.D.W.B.	TOTAL CAPACITY	SENSIBLE CAPACITY				SYSTEM
			72	75	78	80	Kw
85	59	38.70	32.30	36.40	38.70	38.70	2.88
85	63	40.50	26.30	30.35	34.40	37.10	2.91
85	67	43.30	20.50	24.55	28.60	31.30	2.94
95	59	36.90	31.50	35.55	36.90	36.90	3.27
95	63	38.70	25.50	29.55	33.60	36.40	3.30
95	67	41.40	19.80	23.85	27.90	30.60	3.33
105	63	36.90	24.80	28.85	32.90	35.60	3.68
105	67	39.50	19.10	23.15	27.20	29.90	3.72
105	71	42.80	13.50	17.55	21.60	24.30	3.75
115	63	35.10	24.10	28.15	32.20	34.90	4.07
115	67	37.50	18.30	22.45	26.50	29.20	4.11
115	71	40.70	12.80	16.85	20.90	23.60	4.15
*** 95	67	41.40	IDDB=	80.00	30.60		3.33

***** Performance at selected design conditions**

*** Dry coil condition (Total Capacity = Sensible Capacity)**

Total capacity, compressor Kw and app. dew point valid only for wetcoil

All temperatures in Degree F

Performance Data Cooling

High Speed---U.S. (English)

Capacities are net in Btuh/1000 - indoor fan heat deducted

Outdoor Model	4TTR6048B1
Indoor Model	TEM3A0C48S41+TDR
ARIREF	5918152
Airflow	1400

Values At ARI Rating Conditions	
Total Net Capacity	44000 Btu/h
Airflow	1300 CFM
Compressor Power	3045 watts
Indoor Fan Power	413 watts
Outdoor Fan Power	209 watts
SEER	14.25
EER	12.29

Correction Factors - Other Airflows		
Airflow	**1225**	**1575**
Total Capacity	0.98	1.02
Sensible Capacity	0.93	1.07
Compressor Kw	0.99	1.01

Rated with 25 Feet 7/8 suction 3/8 liquid lines

O.D.D.B.	I.D.W.B.	TOTAL CAPACITY	SENSIBLE CAPACITY				SYSTEM
			72	75	78	80	Kw
85	59	41.50	33.40	37.35	41.40	41.40	3.18
85	63	43.60	27.40	31.35	35.40	38.10	3.21
85	67	46.50	21.60	25.60	29.60	32.30	3.24
95	59	39.80	32.60	36.60	39.80	39.80	3.57
95	63	41.80	26.60	30.65	34.60	37.30	3.60
95	67	44.60	20.90	24.85	28.90	31.60	3.63
105	63	40.00	25.90	29.85	33.90	36.60	3.99
105	67	42.70	20.20	24.15	28.20	30.90	4.03
105	71	46.30	14.60	18.65	22.70	25.30	4.07
115	63	38.20	25.10	29.15	33.20	35.80	4.38
115	67	40.80	19.40	23.45	27.50	30.10	4.42
115	71	44.20	13.90	17.95	21.90	24.60	4.47
*** 95	67	44.60	IDDB=	80.00	31.60		3.63

***** Performance at selected design conditions**

*** Dry coil condition (Total Capacity = Sensible Capacity)**

Total capacity, compressor Kw and app. dew point valid only for wetcoil

All temperatures in Degree F

Performance Data Cooling

High Speed---U.S. (English)

Capacities are net in Btuh/1000 - indoor fan heat deducted

Outdoor Model	4TTR6060B1
Indoor Model	TEM3A0C60S51+TDR
ARIREF	5918154
Airflow	2000

Values At ARI Rating Conditions	
Total Net Capacity	56500 Btu/h
Airflow	1810 CFM
Compressor Power	4321 watts
Indoor Fan Power	387 watts
Outdoor Fan Power	205 watts
SEER	14.25
EER	11.88

Correction Factors - Other Airflows		
Airflow	**1750**	**2250**
Total Capacity	0.98	1.02
Sensible Capacity	0.93	1.07
Compressor Kw	0.99	1.01

Rated with 25 Feet 7/8 suction 3/8 liquid lines

O.D.D.B.	I.D.W.B.	TOTAL CAPACITY	SENSIBLE CAPACITY				SYSTEM
			72	75	78	80	Kw
85	59	53.80	45.30	50.95	53.80	53.80	4.14
85	63	56.40	36.90	42.55	48.20	52.00	4.18
85	67	60.30	28.90	34.50	40.20	44.00	4.22
95	59	51.40	44.20	49.70	51.40	51.40	4.75
95	63	53.90	35.90	41.50	47.20	51.00	4.80
95	67	57.60	27.90	33.50	39.20	43.00	4.85
105	63	51.40	34.90	40.50	46.20	50.00	5.42
105	67	54.90	26.90	32.50	38.20	42.00	5.48
105	71	59.50	19.10	24.80	30.40	34.20	5.53
115	63	48.80	33.80	39.50	45.10	48.80	6.04
115	67	52.20	25.90	31.55	37.20	41.00	6.11
115	71	56.60	18.10	23.80	29.50	33.20	6.17
*** 95	67	57.60	IDDB=	80.00	43.00		4.85

***** Performance at selected design conditions**

*** Dry coil condition (Total Capacity = Sensible Capacity)**

Total capacity, compressor Kw and app. dew point valid only for wetcoil

All temperatures in Degree F

Performance & Electrical Data TEM3

Table 1. Air Flow Performance

TEM3A0B18S21SBA, TEM3A0B24S21SBA[a]						
EXTERNAL STATIC (in w.g)	AIRFLOW					
	Speed Taps — 230 VOLTS			Speed Taps — 208 VOLTS		
	High	**Med**	**Low †**	**High**	**Med**	**Low †**
0.1	984	903	719	946	827	612
0.2	948	868	694	910	796	589
0.3	906	828	665	868	760	567
0.4	858	781	630	820	717	543
0.5	802	726	588	764	666	513
0.6	735	660	537	697	605	
0.7	651	581		614	532	

1. Values are with wet coil, no filter, and no heaters
2. CFM Correction for dry coil = Add 3%
3. † = Factory setting

[a] For the TEM3A0B24S21SA, the recommended speed tap is medium at 0.4" external static pressure.

Table 2. Electrical Data

TEM3A0B18S21SBA, TEM3A0B24S21SBA											
Heater Model No.	No. of Circuits/ Phases	240 Volt					208 Volt				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Maximum Overload Protection	Maximum Overload Protection
		kW	BTUH				kW	BTUH			
No Heater				1.3 *	2	15			1.3 *	2	15
BAYHTR1504BRK BAYHTR1504PDC BAYHTR1504LUG	1/1	3.84	13100	16.0	22	25	2.88	9800	13.8	19	20
BAYHTR1505BRK BAYHTR1505PDC BAYHTR1505LUG	1/1	4.80	16400	20.0	27	30	3.60	12300	17.3	23	25
BAYHTR1508BRK BAYHTR1508PDC BAYHTR1508LUG	1/1	7.68	26200	32.0	42	45	5.76	19700	27.7	36	40
BAYHTR1510BRK BAYHTR1510PDC BAYHTR1510LUG	1/1	9.60	32800	40.0	52	60	7.20	24600	34.6	45	45
BAYHTR3510LUG	1/3	9.60	32800	23.1	30	30	7.20	24600	20.0	26	30

* = Motor Amps

Performance & Electrical Data TEM3

Table 3. Air Flow Performance

TEM3A0B30S31SBA [a], TEM3A0B36S31SBA [a] [b]						
EXTERNAL STATIC (in w.g)	AIRFLOW					
	Speed Taps — 230 VOLTS			Speed Taps — 208 VOLTS		
	High	**Med**	**Low †**	**High**	**Med**	**Low †**
0.1	1461	1336	979	1406	1173	834
0.2	1404	1291	971	1352	1152	819
0.3	1344	1242	962	1295	1121	810
0.4	1281	1188	944	1234	1081	804
0.5	1214	1130	916	1169	1035	791
0.6	1142	1066	876	1100	981	768
0.7	1066	997		1026	920	732

1. Values are with wet coil, no filter, and no heaters
2. CFM Correction for dry coil = Add 3%
3. † = Factory setting

[a] For TEM3A0B30S31SA and TEM3A0B36S31SA in downlfow applications, airflow must not exceed 1200 cfm due to condensate blow off.
[b] For TEM3A0B36S31SA, the recommended speed tap is medium at 0.4" external static pressure.

Table 4. Electrical Data

TEM3A0B30S31SBA, TEM3A0B36S31SBA											
Heater Model No.	No. of Circuits/ Phases	240 Volt					208 Volt				
		Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection	Capacity		Heater Amps per Circuit	Minimum Circuit Ampacity	Maximum Overload Protection
		kW	BTUH				kW	BTUH			
No Heater				2.5 *	3	15			2.5 *	3	15
BAYHTR1504BRK BAYHTR1504PDC BAYHTR1504LUG	1/1	3.84	13100	16.0	23	25	2.88	9800	13.8	20	20
BAYHTR1505BRK BAYHTR1505PDC BAYHTR1505LUG	1/1	4.8	16400	20.0	28	30	3.6	12300	17.3	25	25
BAYHTR1508BRK BAYHTR1508PDC BAYHTR1508LUG	1/1	7.68	26200	32.0	43	45	5.76	19700	27.7	38	40
BAYHTR1510BRK BAYHTR1510PDC BAYHTR1510LUG	1/1	9.6	32800	40.0	53	60	7.2	24600	34.6	46	50
BAYHTR1515BRK-Circuit 1 [a]	2/1	9.6	32800	40.0	53	60	7.2	24600	34.6	46	50
BAYHTR1515BRK-Circuit 2		4.8	16400	20.0	25	25	3.6	12300	17.3	22	25
BAYHTR1519BRK-Circuit 1 [a]	2/1	9.6	32800	40.0	53	60	7.2	24600	34.6	46	50
BAYHTR1519BRK-Circuit 2		9.6	32800	40.0	50	50	7.2	24600	34.6	43	45
BAYHTR3510LUG	1/3	9.6	32800	23.1	32	35	7.2	24600	20.0	28	30
BAYHTR3515LUG	1/3	14.4	49200	34.6	46	50	10.8	36900	30.0	40	40
BAYHTR1515BRK with single circuit power source kit BAYSPEKT201A	1/1	14.4	49200	60.0	83	90	10.8	36900	51.9	73	80
BAYHTR1519BRK with single circuit power source kit BAYSPEKT201A	1/1	19.2	65500	80.0	108	110	14.4	49200	69.2	94	100
* = Motor Amps											

[a] MCA and MOP for circuit 1 contains the motor amps

TEM3 Air Handler & Heater Matrix Allowable Combination

TEM3 MINIMUM HEATER AIRFLOW CFM — HEATER MATRIX					
Model No.	BAYHTR1504BRK * BAYHTR1504PDC * BAYHTR1504LUG* BAYHTR1505BRK * BAYHTR1505PDC * BAYHTR1505LUG *	BAYHTR1508BRK * BAYHTR1508PDC * BAYHTR1508LUG * BAYHTR1510BRK * BAYHTR1510PDC * BAYHTR1510LUG * BAYHTR3510LUG *	BAYHTR1515BRK * BAYHTR3515LUG *	BAYHTR1519BRK *	BAYHTR1520BRK *
TEM3A0B18S21S *	L / L	L / L	— —	— —	— —
TEM3A0B24S21S *	L / L	L / L	— —	— —	— —
TEM3A0B30S31S *	L / L	L / L	L / L	L / L	— —
TEM3A0B36S31S *	L / L	L / L	L / L	L / L	— —
TEM3A0C42S41S *	L / L	L / L	L / L	— —	L / L
TEM3A0C48S41S *	L / L	L / L	L / L	— —	L / L
TEM3A0C60S51S *[a]	L / L	L / L	L / L	— —	L / L

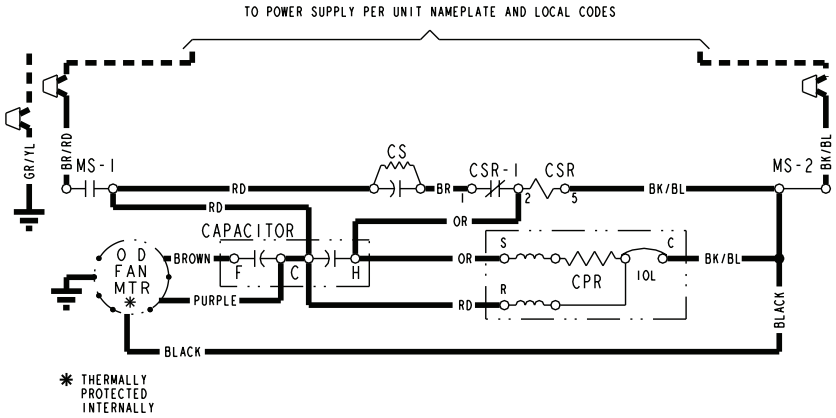
1. Cooling / HP Airflow
2. * = Followed by two digits

[a] Taps 1–3 = Low, Tap 4 = Med, Tap 5 = High

Electrical Data 4TTR6

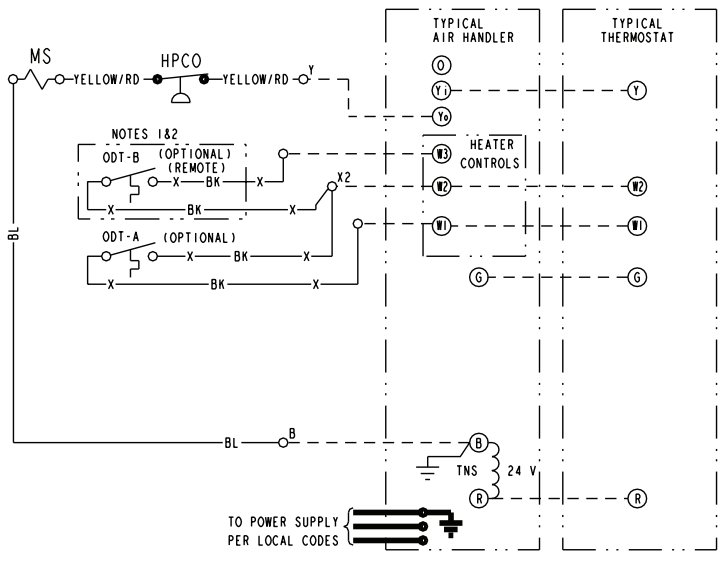
Schematic Diagrams

4TTR6018B, 4TTR6024B, 4TTR6030B



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

⚠ 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

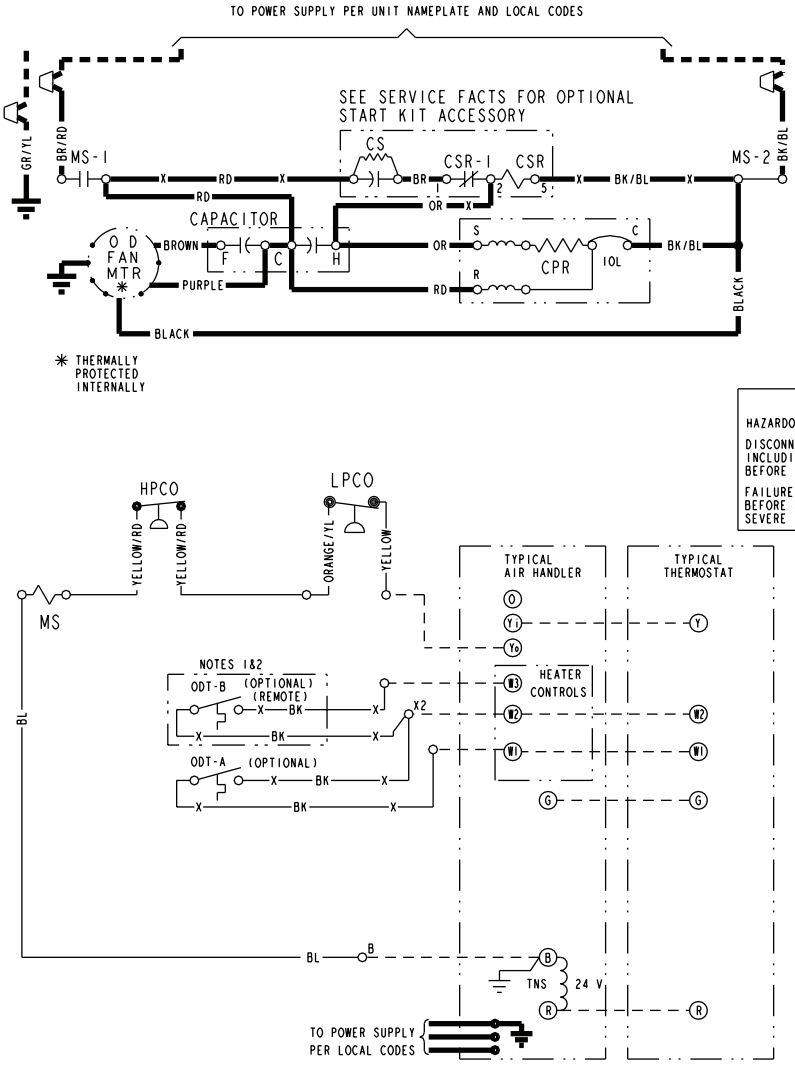
CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V-TO-GROUND.
ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE.

Printed from D157123P01 Rev 00

Electrical Data 4TTR6

Schematic Diagrams

4TTR6036B



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

✳ THERMALLY PROTECTED INTERNALLY

⚠ 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

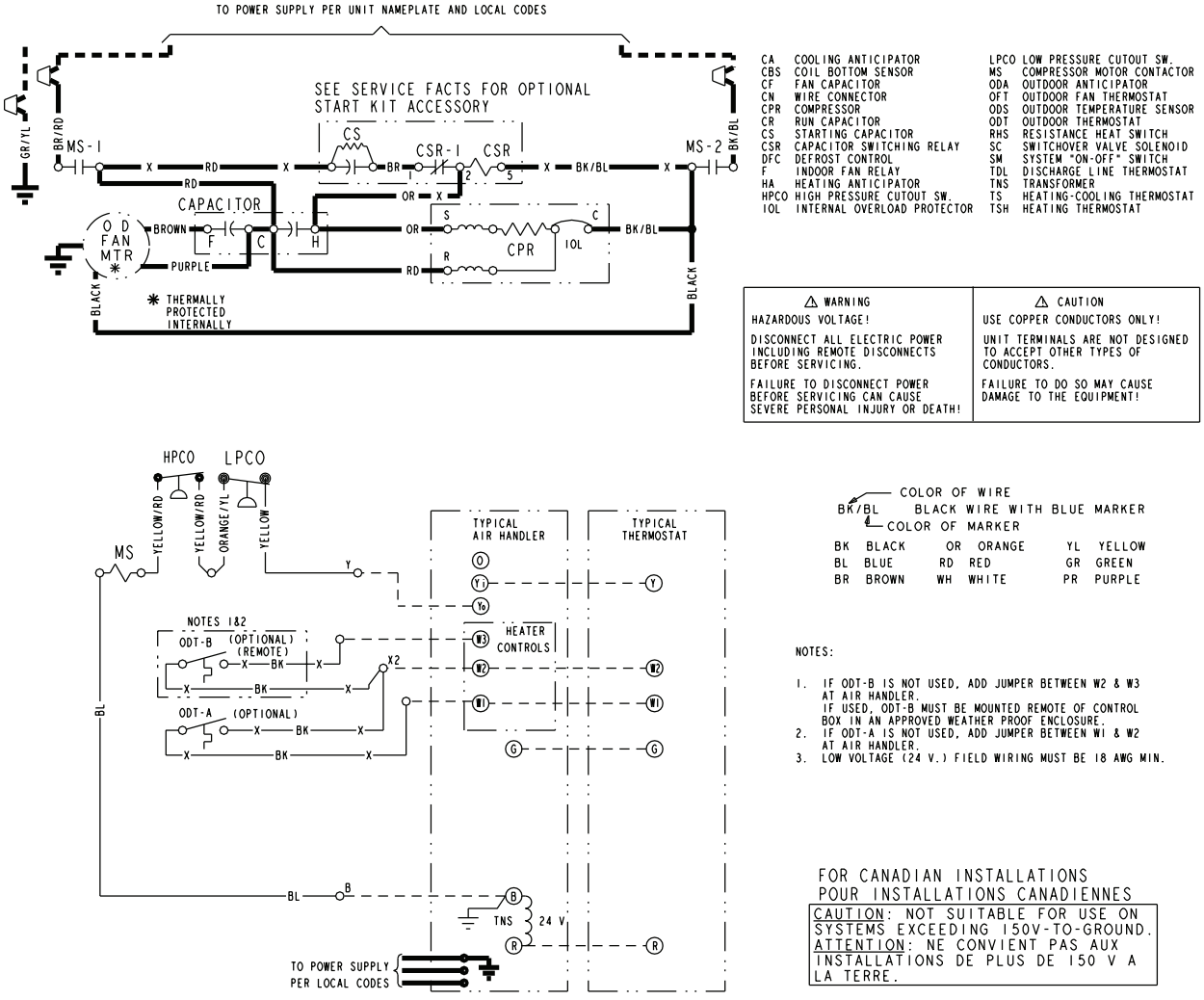
CAUTION: NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V-TO-GROUND.
ATTENTION: NE CONVIENT PAS AUX INSTALLATIONS DE PLUS DE 150 V A LA TERRE.

Printed from D157124P02

Electrical Data 4TTR6

Schematic Diagrams

4TTR6048B



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

⚠ 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.

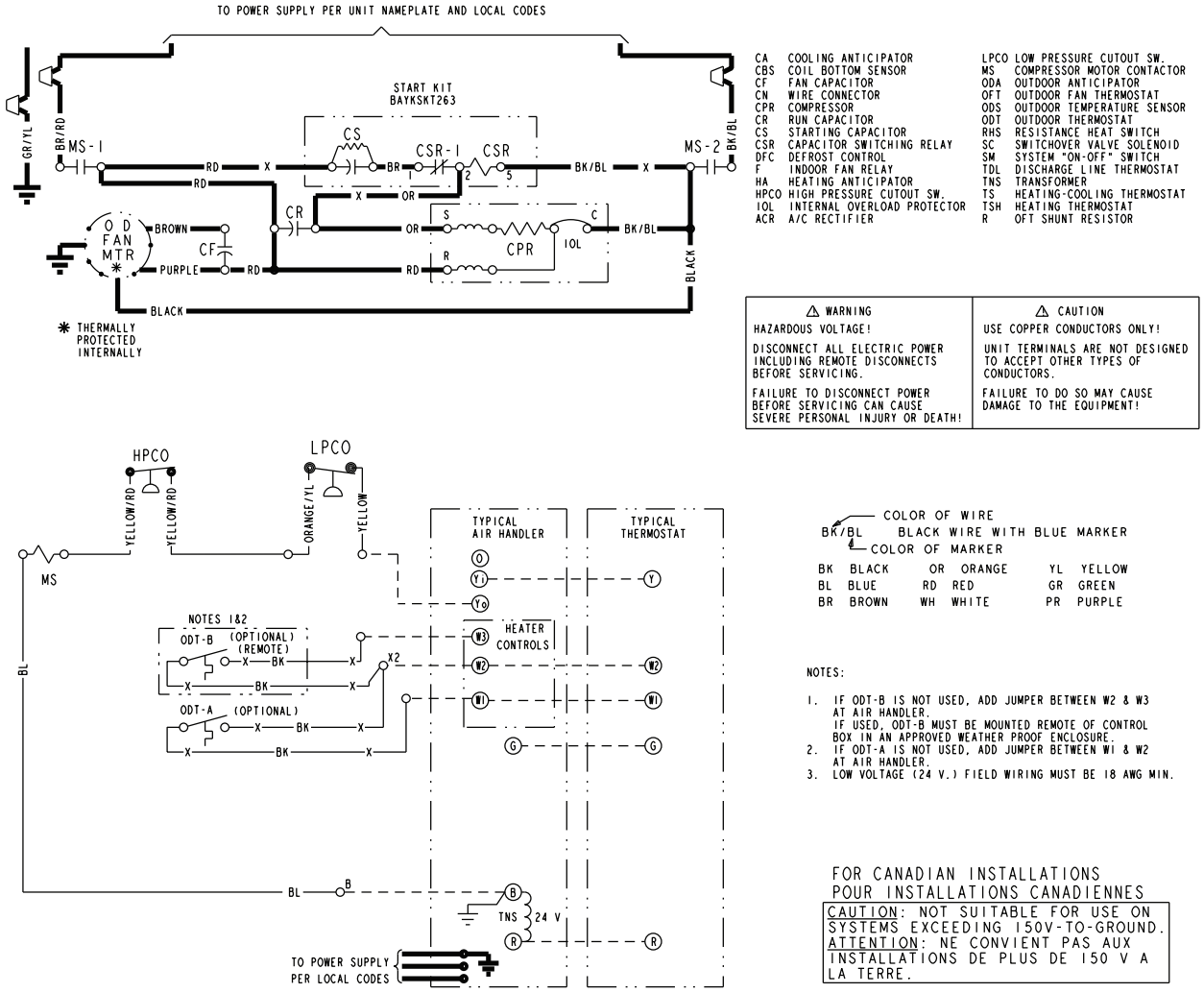
FOR CANADIAN INSTALLATIONS
POUR INSTALLATIONS CANADIENNES

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.

Printed from D157125P02

Electrical Data 4TTR6

4TTR6060B



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
ACR	A/C RECTIFIER	R	OFT SHUNT RESISTOR

⚠ 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.

Printed from D157177P01 Rev 00

Electrical Data TEM3

Figure 1. TEM3A0B18 — C48

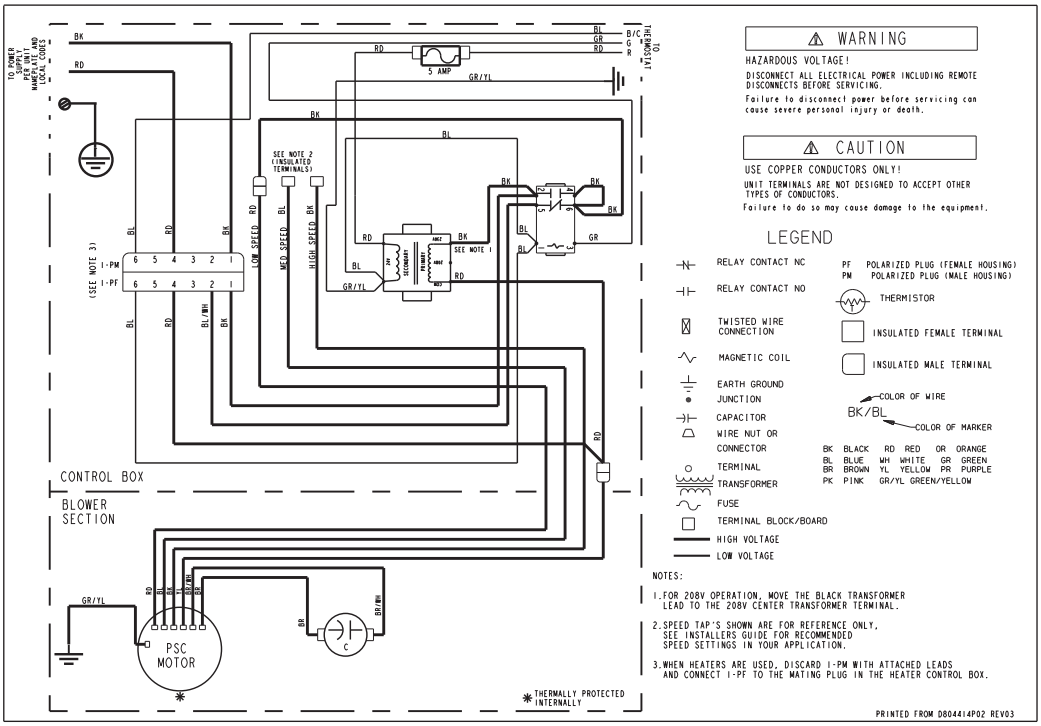
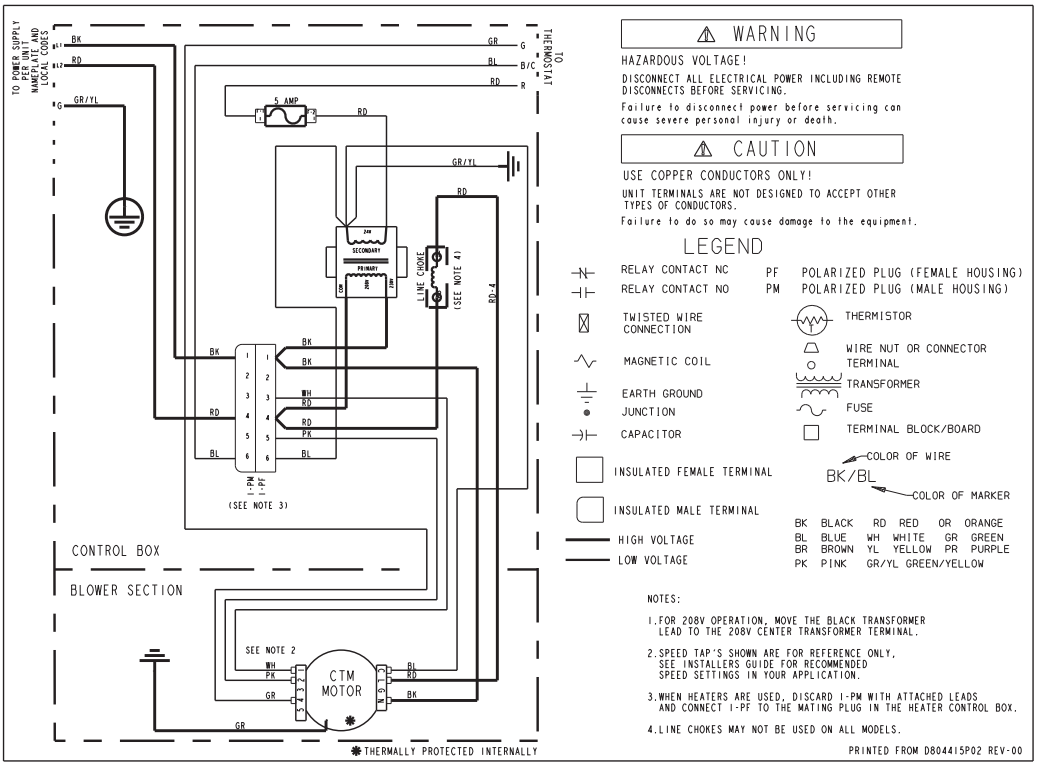
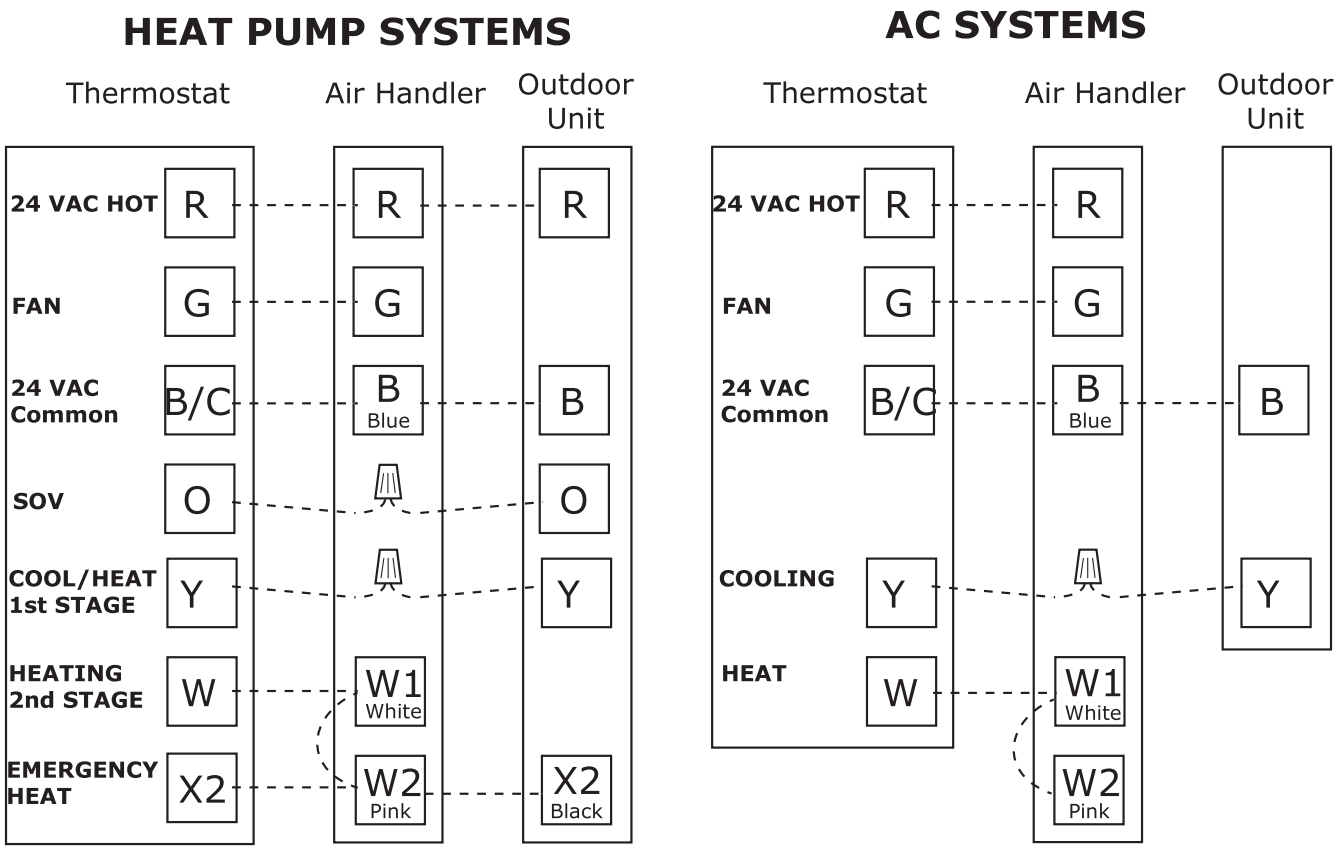


Figure 2. TEM3A0C60



Field Wiring TEM3

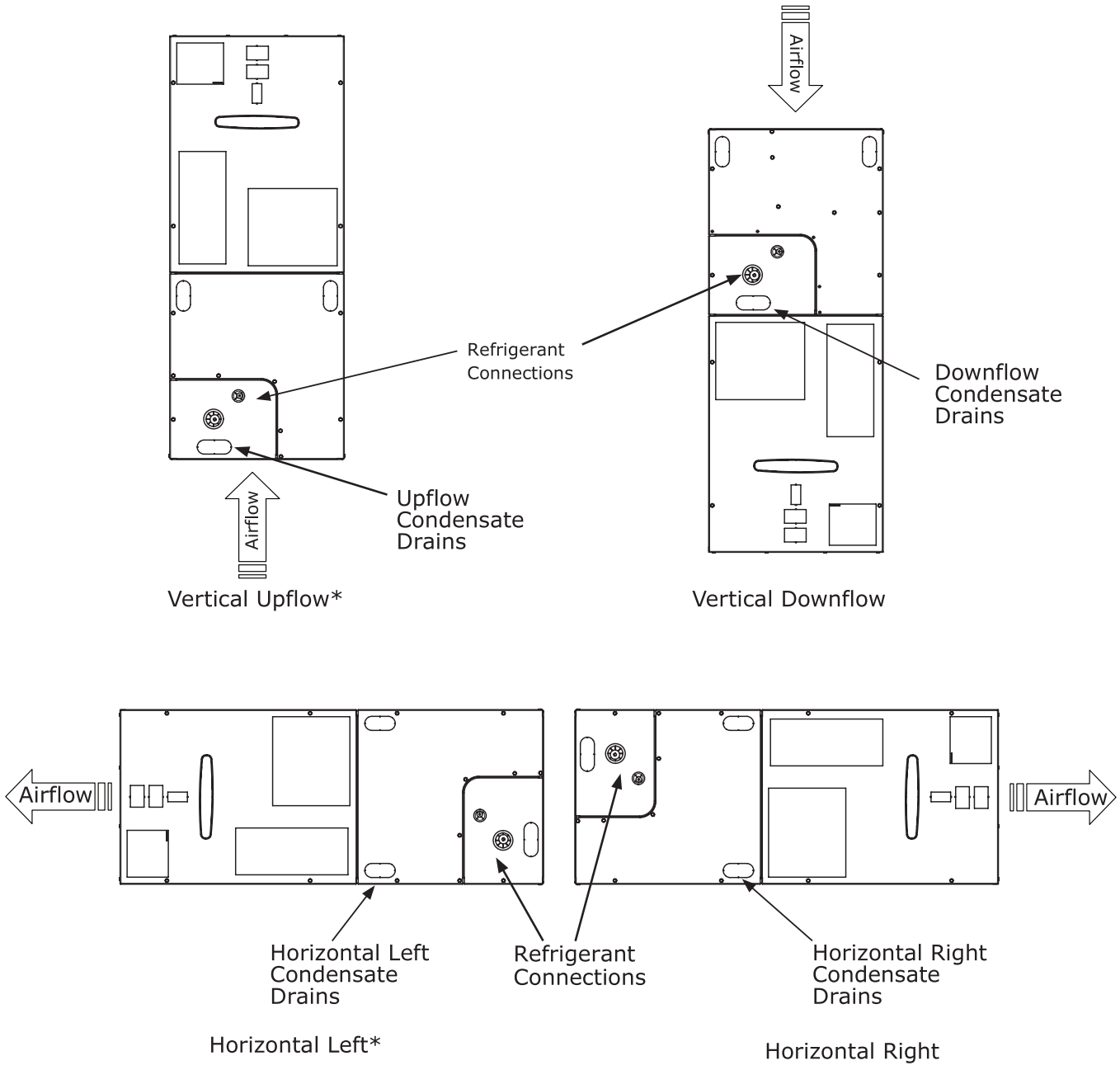
Figure 3. Field Wiring Diagrams



In AC systems for multiple stages of electric heat, jumper W1 and W2 together if comfort control has only one stage of heat.

TEM3 Convertibility

Figure 4. Multi-Position Air Handler
*** = No Internal Modifications Required.**



Dimensions 4TTR6

4TTR6 Outline Drawing

Note: All dimensions are in MM (Inches).

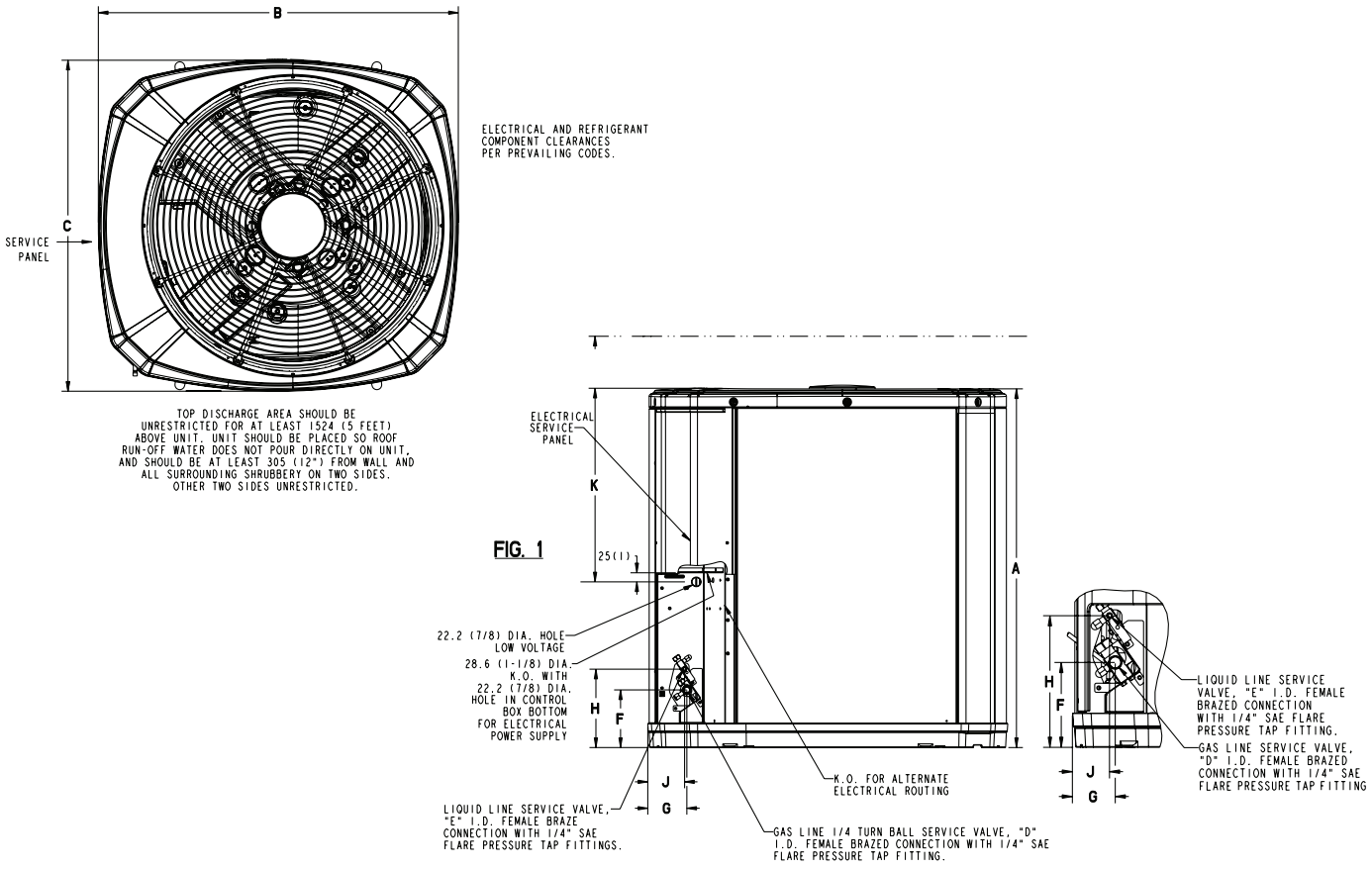
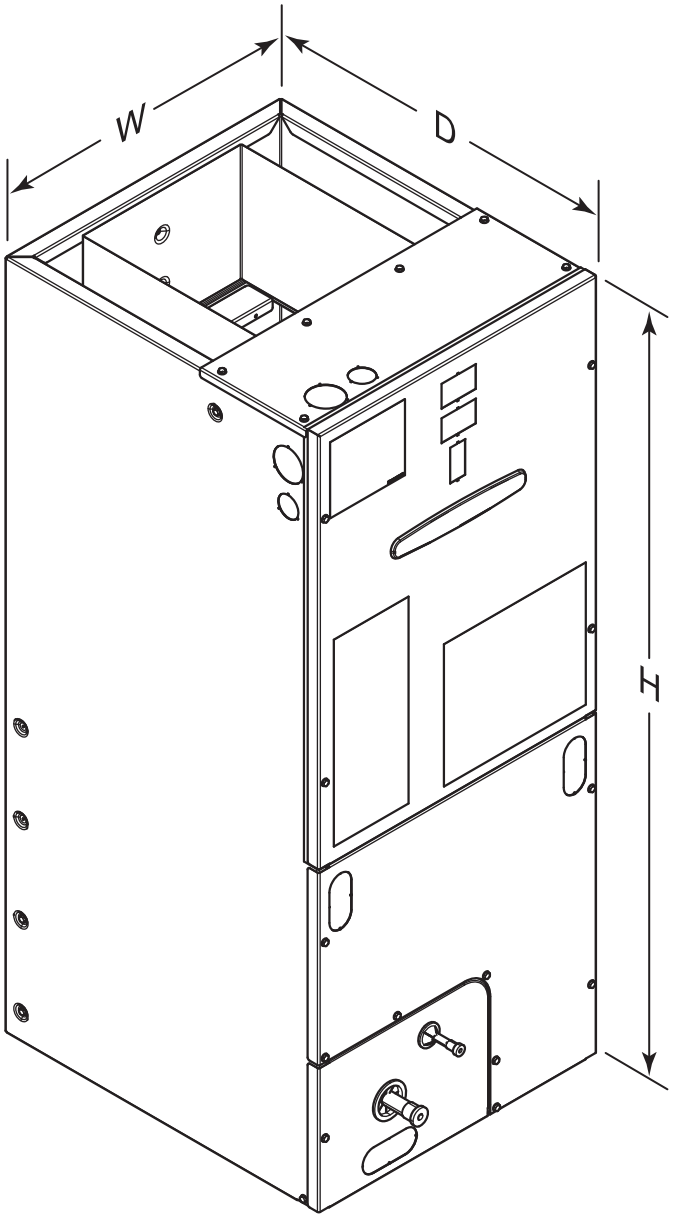


FIG. 1

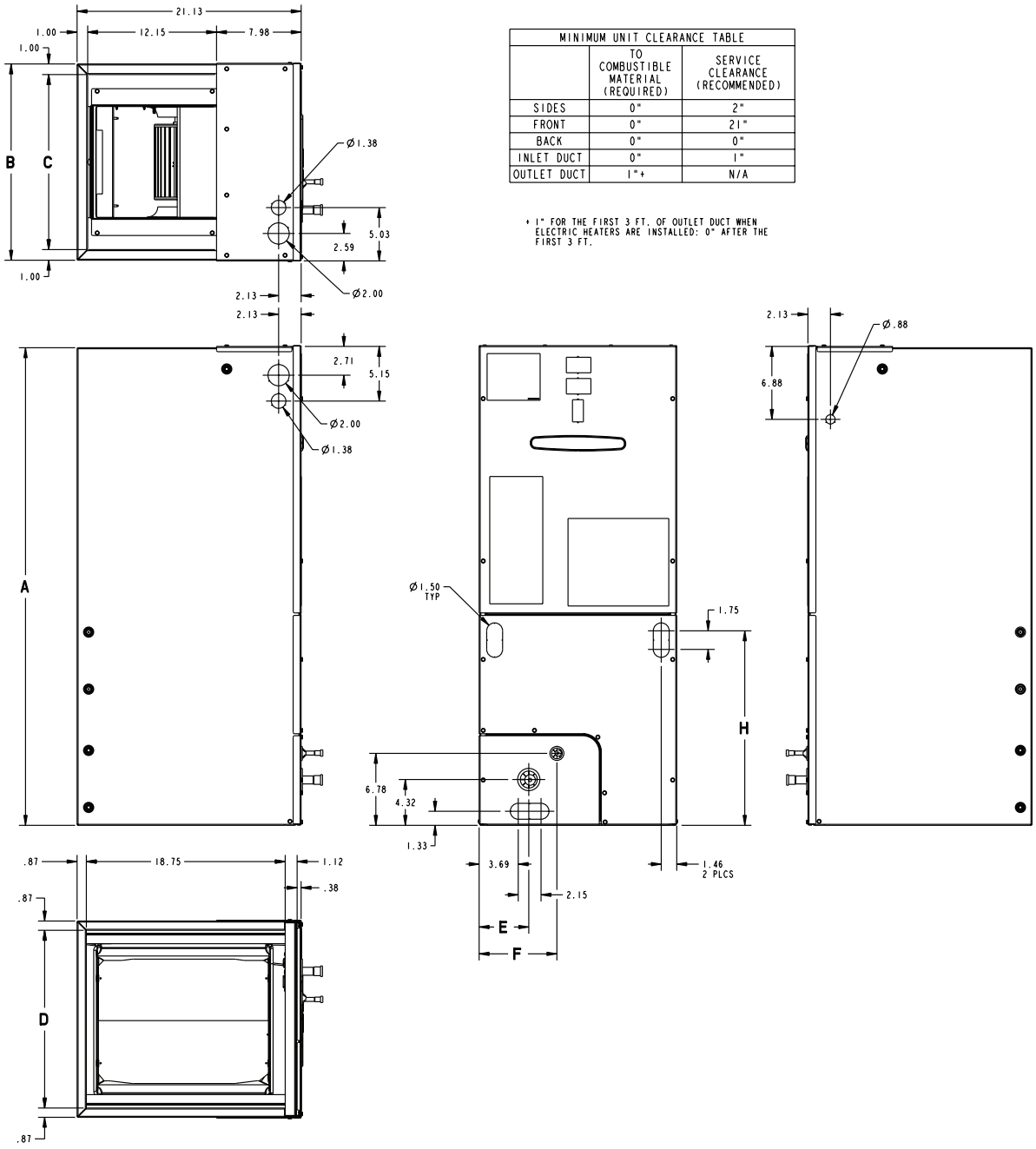
MODELS	BASE	A	B	C	D	E	F	G	H	J	K
4TTR6018B	3	730 (28-3/4)	829 (32-5/8)	756 (29-3/4)	5/8	3/8	127 (5)	76 (3)	197 (7-3/4)	57 (2-1/4)	508 (20)
4TTR6024B	3	730 (28-3/4)	829 (32-5/8)	756 (29-3/4)	3/4	3/8	127 (5)	76 (3)	197 (7-3/4)	57 (2-1/4)	508 (20)
4TTR6030B	4	841 (33-1/8)	946 (37-1/4)	870 (34-1/4)	3/4	3/8	152 (6)	98 (3-7/8)	219 (8-5/8)	86 (3-3/8)	508 (20)
4TTR6036B	4	943 (37-1/8)	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)
4TTR6042B	4	1045 (41 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)
4TTR6048B	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)
4TTR6060B	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)

Dimensional Data
TEM3 Air Handler



Model No.	H	W	D
TEM3A0B18S21BA	45.02	18.50	21.13
TEM3A0B18S21BA	45.02	18.50	21.13
TEM3A0B30S31BA	45.02	18.50	21.13
TEM3A0B36S31BA	45.02	18.50	21.13
TEM3A0C42S41BA	51.27	23.50	21.13
TEM3A0C48S41BA	51.27	23.50	21.13
TEM3A0C60S51BB	51.27	23.50	21.13

Outline Drawing TEM3



MINIMUM UNIT CLEARANCE TABLE		
	TO COMBUSTIBLE MATERIAL (REQUIRED)	SERVICE CLEARANCE (RECOMMENDED)
SIDES	0"	2"
FRONT	0"	21"
BACK	0"	0"
INLET DUCT	0"	1"
OUTLET DUCT	1"+	N/A

+ 1" FOR THE FIRST 3 FT. OF OUTLET DUCT WHEN ELECTRIC HEATERS ARE INSTALLED: 0" AFTER THE FIRST 3 FT.

PRODUCT DIMENSIONS									
Air Handler Model	A	B	C	D	E	F	H	Flow Control	Gas Line Braze
TEM3A0B18, 24, 30, 36	45.02	18.50	16.50	16.75	4.68	7.33	18.34	TXV	3/4
TEM3A0C42, 48, 60	51.27	23.50	21.50	21.75	7.01	9.66	24.59	TXV	7/8
All dimensions are in inches									

Mechanical Specification Options

General
The 4TTR6 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 125°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 30° F.

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

TRANE

Trane optimizes the performance of homes and buildings around the world. A business of Ingersoll Rand, the leader in creating and sustaining safe, comfortable and energy efficient environments, Trane offers a broad portfolio of advanced controls and HVAC systems, comprehensive building services, and parts. For more information, visit www.Trane.com.

SS-PRC040A-EN Dec 2014

Ingersoll Rand