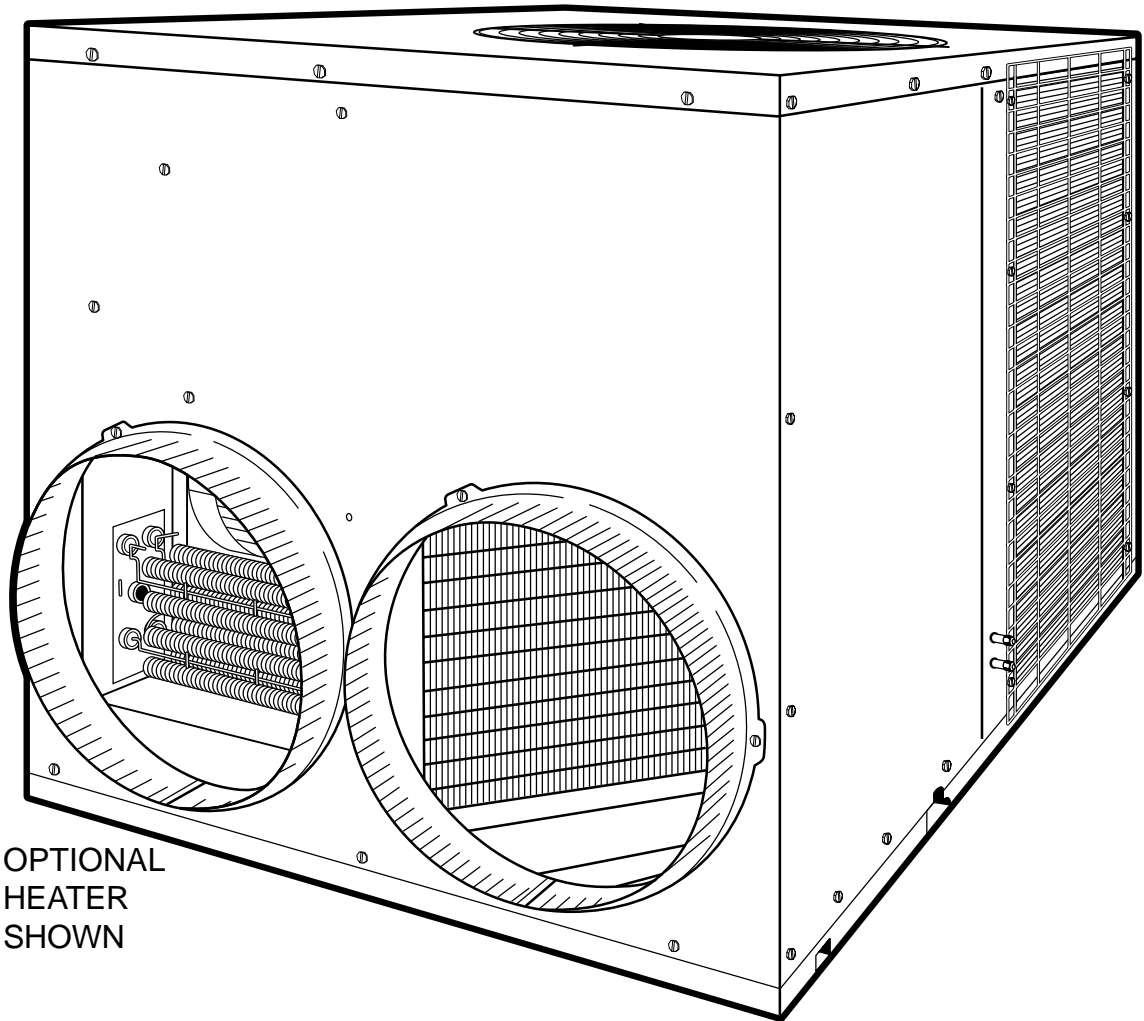




13 SEER
PACKAGED COOLING
HORIZONTAL MODELS



OPTIONAL
HEATER
SHOWN

MODELS TCK024,030,036,042B1
2, 2½, 3, 3½ TON

Features and Benefits

It's Hard To Stop A Trane.®

Horizontal Packaged Cooling Units

Whether your requirement is residential or light commercial, our new line of packaged air conditioners gives you the excellent performance and reliability that you expect from Trane. Our new cooling with electric heat packaged units offer you "the best value" with the most efficient and versatile models in the industry.

The efficiencies of our new units meet or exceed virtually all local standards and are among the most competitive in the industry. We have also made installation easier and less costly by standardizing the cabinets and accessories.

Introducing the new TRANE® horizontal packaged cooling unit, the simplest, most efficient, and reliable unit we've ever made.

Better Installability

These packaged cooling units have a horizontal configuration which provides an efficient airflow delivery. This dedicated design eliminates the need for any unit conversion, saving field labor that has a great bearing on installation cost.

The new models have a standardized cabinet that allows common use of accessories for simplified installation and alleviates the burden of whether the right accessories are being applied.

Better Serviceability

Accessibility, already a standard feature in Trane packaged cooling units, has been greatly enhanced. With a standardized cabinet, all components were designed to be in the same location, regardless of unit size. Our timesaving rotolock compressor fittings provide easy removal if service on the compressor is required.

A redesigned and simplified control panel that features colored and numbered wire is standard on all products. This aids in reducing troubleshooting time when wire tracing

is required. And easy access to all major components can be accomplished by removing quick service access panels.

Better Performance

Our packaged cooling units offer cooling efficiencies that are unmatched in the industry and provide you with a product far superior in performance than the competition.

Unmatched Quality and Reliability

All major components on these products, including the compressor, have been designed and manufactured for maximum service. Every Climatuff® compressor is designed and manufactured to exacting specifications. Each design is life tested in extreme environments to ensure reliable and long lasting operation in normal applications. Each compressor has internal motor protection for added reliability.

Features and Benefits

The TCK024-042A packaged cooling feature:

- Climatuff® compressor, designed and manufactured to provide reliable, economical operation
 - Internal pressure relief and internal overload protection
 - Two-speed indoor fan motor
 - External pressure taps for refrigerant check
 - Thermal expansion valve refrigerant control
 - Demand defrost control system
 - Reliable, solenoid-operated reversing valve
 - Copper tube, aluminum plate fin coils
 - Polarized plug for easy field connection of low voltage to supplementary heater
 - Low ambient cooling to 45° F. as manufactured; to 0° F. with accessory
 - Duct flanges
 - UL and ARI certified
 - Outdoor coil guards
- Accessories**
- Supplemental Electric Heaters
 - Thermostats
 - Low ambient cooling to 0° F.

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**DATA SUBJECT
TO CHANGE
WITHOUT NOTICE**

PRODUCT DATA

American Standard Inc., Tyler, TX 75711-9010

Optional Equipment

OPTIONAL EQUIPMENT FOR PACKAGE UNITS. (Check mark [✓] indicates accessories included.)

Indoor Thermostats

Prog. 7Day, 3 Htg/2 Clg, Auto/Manual	ASYSTAT500C []
Electronic, 3 Htg/2 Clg, (Non Programmable)	ASYSTAT575 []
Outdoor Temperature Sensor (use with ASYSTAT500C,575)	TAYSENS200A []
Prog. 5/2 Day, 2 Htg/1 Clg	ASYSTAT540 []
Electronic, 2 Htg/1 Clg (Non Programmable)	ASYSTAT570 []
Deluxe Auto Changeover, 2 Htg/1 Clg	ASYSTAT650 []
Manual 2 Htg/1 Clg	ASYSTAT655A []
Auto/Manual, 3 Htg/2 Clg(w econ)	ASYSTAT653A []
Outdoor Thermostat	BAYSTAT033A []
Locking Thermostat Cover (Non-Programmable Thermostats)	BAY28X190 []
Humidistat	BAYSTAT253 []
Evaporator Defrost Control (Low Ambient Cooling) Kit	BAYLOAM011A []
Anti-short Cycle Timer ^①	BAYASCT001 []
Outdoor Thermostat Kit	BAYSTAT033A []

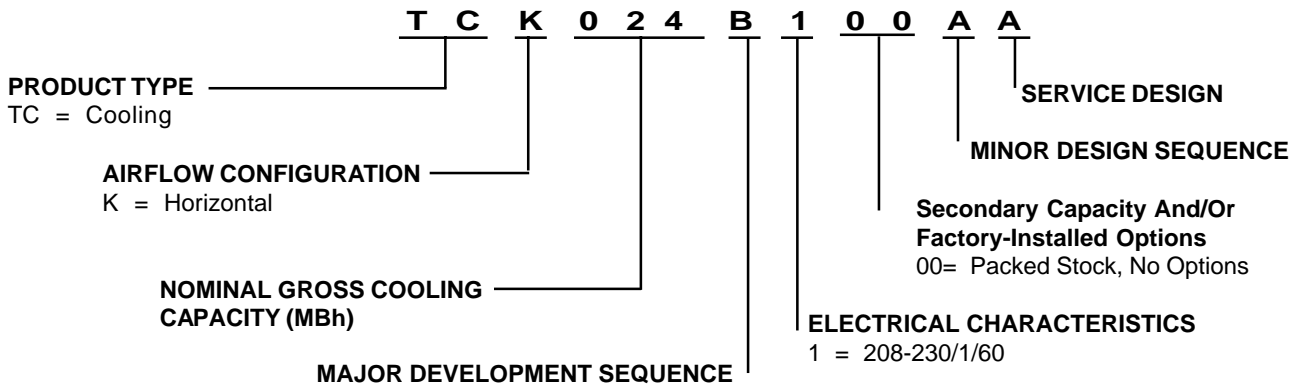
Supplementary Heaters (Single Phase)

3.74/4.98 KW Heater TCK024-036B1 (208/240v)	BAYHTRK105A []
7.48/9.96 KW Heater TCK024-042B1 (208/240v)	BAYHTRK110A []
11.22/14.94 KW Heater TCK036-042B1 (208/240V)	BAYHTRK116A []

NOTES:

- ① Do not use with programmable thermostats.
- ② This model has a fuse box factory provided.

Model Number Description



General Data

MODEL	TCK024B100A	TCK030B100A	TCK036B100A	TCK042B100A
RATED Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
RATINGS (COOLING) ①	26000	30600	36000	41000
Indoor Airflow (CFM)	800	1000	1200	1400
Power Input (KW)	2.26	2.46	3.04	3.52
EER/SEER (BTU/Watt-Hr) ⑥	11.50 / 13.00	12.60 / 13.00	11.80 / 13.00	11.45 / 13.00
Noise Rating No. ②	75	75	75	77
POWER CONN.—V/Ph/Hz				
Min. Brch. Cir. Ampacity ③	14	20	23	28
Fuse Size—Max. (amps)	20	30	35	40
Fuse Size—Recmd. (Amps)	20	30	35	40
COMPRESSOR				
No. Used—No. Speeds	1 - 1	1 - 1	1 - 1	1 - 1
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
R.L. Amps—L.R. Amps	8.9 - 62	12.2 - 67.0	14.7 - 83	16.5 - 95
OUTDOOR COIL—TYPE	PLATE FIN	PLATE FIN	PLATE FIN	PLATE FIN
Rows/F.P.I.	2 / 22	2 / 22	2 / 22	2 / 22
Face Area (sq.ft.)	12.20	11.20	12.30	12.30
Tube Size (in.)	.375	.375	.375	.375
INDOOR COIL—TYPE	PLATE FIN	PLATE FIN	PLATE FIN	PLATE FIN
Rows/F.P.I.	4 / 16	4 / 16	4 / 16	4/16
Face Area (sq.ft.)	3.90	3.90	3.90	3.90
Tube Size (in.)	.375	.375	.375	.375
Refrigerant Control	TXV-NB	TXV-NB	TXV-NB	TXV-NB
Drain Conn. Size (in.)	3/4 FEMALE PVC	3/4 FEMALE PVC	3/4 FEMALE PVC	3/4 FEMALE PVC
Duct Connections	SEE OUTLINE DRAWING	SEE OUTLINE DRAWING	SEE OUTLINE DRAWING	SEE OUTLINE DRAWING
OUTDOOR FAN—TYPE	PROPELLER	PROPELLER	PROPELLER	PROPELLER
No. Used/Dia. (in.)	1 / 20	1 / 20	1 / 20	1 / 20
Type Drive/No. Speeds	DIRECT / 1	DIRECT / 1	DIRECT / 1	DIRECT / 1
CFM @ 0.0 in. w.g. ④	2500	2500	2600	2600
No. Motors—HP	1 - 1/5	1 - 1/5	1 - 1/5	1 - 1/5
Motor Speed R.P.M.	850	850	850	850
Volts/Ph/Hz	230/1/60	230/1/60	230/1/60	230/1/60
F.L. Amps—L.R. Amps	1.0 - 2.2	1.0 - 2.2	1.0 - 2.2	1.0 - 2.2
INDOOR FAN—TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
Dia x Width (in.)	9 X 9	10 X 9	10 X 9	10 X 9
No. Used	1	1	1	1
Drive / Speeds (No.)	DIRECT / 2	DIRECT / 2	DIRECT / 2	DIRECT / 2
CFM vs. in. w.g. ⑤	See Fan Perf. Table	See Fan Perf. Table	See Fan Perf. Table	See Fan Perf. Table
No. Motors—HP	1 - .25	1 - .50	1 - .50	1 - .75
Motor Speed R.P.M.	1095	1050	1050	1050
Volts/Ph/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
F.L. Amps	1.8 - 3.7	4.1	4.1	6.0
FILTER/FURNISHED?	NO	NO	NO	NO
Type Recommended	THROWAWAY	THROWAWAY	THROWAWAY	THROWAWAY
Min. Face Area ⑦				
Low Vel. (sq. ft.)	2.68	3.33	4.00	4.67
REFRIGERANT				
Charge (lbs of r-22)	6 lbs., 8 oz.	6 lbs., 13 oz.	7 lbs., 0 oz.	7 lbs., 6 oz.
DIMENSIONS	H X W X D	H X W X D	H X W X D	H X W X D
Crated (in.)	36 X 33.75 X 48	36 X 33.75 X 48	36 X 33.75 X 48	36 X 33.75 X 48
Uncrated	SEE OUTLINE DRAWING	SEE OUTLINE DRAWING	SEE OUTLINE DRAWING	SEE OUTLINE DRAWING
WEIGHT				
Shipping (lbs.)	334	338	344	355
Net (lbs.)	287	291	297	308

① Rated in accordance with A.R.I. Standard 210/240.

② Calculated in accordance with A.R.I. Standard 270.

③ Calculated in accordance with currently prevailing Nat'l. Electric Code.

④ Rated in accordance with D.O.E. test procedure. HSPF is at the minimum design requirement of Region IV.

⑤ Filters must be installed in return air system. Square footages listed above are based on 300 F.P.M. face velocity. If permanent filters are used size per manufacturer's recommendations with clean resistance of 0.05" W.C.

⑥ Standard Air — Dry Coil — Outdoor.

⑦ Standard Air — Wet Coil — Indoor.

PRODUCT DATA

American Standard Inc., Tyler, TX 75711-9010

Performance Data Cooling

TCK024B AT 800 CFM (CAPACITIES ARE NET IN BTUH/1000-INDOOR FAN HEAT DEDUCTED)

O.D. D.B.	I.D. W.B.	TOTAL CAP.	SENS. CAP. AT ENTERING D.B. TEMP.				COMPR. KW
			72	75	78	80	
85	59	23.8	18.8	21.1	23.5	24.3*	1.54
	63	25.6	15.8	18.1	20.4	22.0	1.57
	67	27.5	12.4	14.8	17.1	18.6	1.59
95	59	22.6	18.3	20.6	22.8*	23.3*	1.72
	63	24.3	15.2	17.6	19.9	21.4	1.73
	67	26.0	11.9	14.2	16.5	18.1	1.75
105	63	22.8	14.7	17.0	19.3	20.9	1.91
	67	24.4	11.3	13.6	16.0	17.5	1.91
	71	26.1	7.9	10.2	12.5	14.1	1.92
115	63	21.4	14.1	16.4	18.8	20.3	2.10
	67	22.9	10.7	13.1	15.4	16.9	2.08
	71	24.4	7.3	9.6	11.9	13.5	2.06

CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)			
	AIRFLOW	TOTAL CAPACITY	SENSIBLE CAPACITY
LOW	700	X0.98	X0.94
HIGH	800	X1.00	X1.00

VALUES AT ARI RATING CONDITIONS
TOTAL NET CAPACITY = 26000 BTUH
 AIRFLOW = 800 CFM
 APP. DEW PT. = 54.5 DEG. F
 COMPRESSOR POWER = 1750 WATTS
 I.D. FAN POWER = 290 WATTS
 O.D. FAN POWER = 240 WATTS
 S.E.E.R. = 13.00 BTUH/WATT
 E.E.R. = 11.55 BTUH/WATT
*** DRY COIL CONDITION (TOTAL CAPACITY = SENSIBLE CAPACITY)**
TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE VALID ONLY FOR WET COIL
 ALL TEMPERATURES IN DEGREES F.

TCK030B AT 1000 CFM (CAPACITIES ARE NET IN BTUH/1000-INDOOR FAN HEAT DEDUCTED)

O.D. D.B.	I.D. W.B.	TOT CAP.	SENS CAP AT ENTERING D.B. TEMP				COMPR. KW
			72	75	78	80	
85	59	27.9	22.8	25.7	28.2*	28.8*	1.74
	63	29.9	19.0	21.9	24.7	26.6	1.75
	67	32.0	14.9	17.7	20.6	22.5	1.76
95	59	26.7	22.3	25.2	27.2*	27.8*	1.97
	63	28.6	18.5	21.4	24.2	26.1	1.98
	67	30.6	14.4	17.2	20.1	22.0	1.99
105	63	27.2	17.9	20.8	23.7	25.6	2.28
	67	29.1	13.8	16.7	19.5	21.4	2.28
	71	31.0	9.6	12.4	15.3	17.2	2.28
115	63	25.7	17.4	20.2	23.1	25.0	2.58
	67	27.5	13.2	16.1	18.9	20.8	2.57
	71	29.4	9.0	11.9	14.7	16.6	2.56

CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)			
	AIRFLOW	TOTAL CAP	SENS. CAP
LOW	875	X0.98	X0.94
HIGH	1000	X1.00	X1.00

VALUES AT ARI RATING CONDITIONS
TOTAL NET CAPACITY = 30600 BTUH
 AIRFLOW = 1000 CFM
 APP. DEW PT. = 55.3 DEG. F
 COMPRESSOR POWER = 1990 WATTS
 I.D. FAN POWER = 240 WATTS
 O.D. FAN POWER = 240 WATTS
 S.E.E.R. = 13.00 BTUH/WATT
 E.E.R. = 12.62 BTUH/WATT
*** DRY COIL CONDITION (TOTAL CAPACITY = SENSIBLE CAPACITY)**
TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE VALID ONLY FOR WET COIL
 ALL TEMPERATURES IN DEGREES F.

TCK036B AT 1200 CFM (CAPACITIES ARE NET IN BTUH/1000-INDOOR FAN HEAT DEDUCTED)

O.D. D.B.	I.D. W.B.	TOT CAP.	SENS CAP AT ENTERING D.B. TEMP				COMPR. KW
			72	75	78	80	
85	59	32.8	26.9	30.3	33.2*	33.9*	2.13
	63	35.2	22.4	25.8	29.2	31.4	2.16
	67	37.6	17.5	20.9	24.2	26.5	2.18
95	59	31.5	26.3	29.7	32.1*	32.8*	2.40
	63	33.7	21.8	25.2	28.6	30.8	2.42
	67	36.0	16.9	20.3	23.7	25.9	2.45
105	63	32.1	21.2	24.6	27.9	30.2	2.74
	67	34.2	16.2	19.6	23.0	25.2	2.77
	71	36.5	11.2	14.6	18.0	20.2	2.81
115	63	30.4	20.5	23.9	27.3	29.5	3.05
	67	32.5	15.6	19.0	22.3	24.6	3.09
	71	34.6	10.6	13.9	17.3	19.6	3.14

CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)			
	AIRFLOW	TOTAL CAP	SENS. CAP
LOW	1050	X0.98	X0.94
HIGH	1200	X1.00	X1.00

VALUES AT ARI RATING CONDITIONS
TOTAL NET CAPACITY = 36000 BTUH
 AIRFLOW = 1200 CFM
 APP. DEW PT. = 55.4 DEG. F
 COMPRESSOR POWER = 2450 WATTS
 I.D. FAN POWER = 340 WATTS
 O.D. FAN POWER = 250 WATTS
 S.E.E.R. = 13.00 BTUH/WATT
 E.E.R. = 11.89 BTUH/WATT
*** DRY COIL CONDITION (TOTAL CAPACITY = SENSIBLE CAPACITY)**
TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE VALID ONLY FOR WET COIL
 ALL TEMPERATURES IN DEGREES F.

TCK042B AT 1400 CFM (CAPACITIES ARE NET IN BTUH/1000-INDOOR FAN HEAT DEDUCTED)

O.D. D.B.	I.D. W.B.	TOT CAP.	SENS CAP AT ENTERING D.B. TEMP				COMPR. KW
			72	75	78	80	
85	59	37.4	30.6	34.5	37.8*	38.7*	2.47
	63	40.1	25.5	29.3	33.2	35.8	2.50
	67	42.8	19.8	23.7	27.5	30.1	2.53
95	59	35.9	30.0	33.8	36.5*	37.4*	2.78
	63	38.4	24.8	28.7	32.5	35.1	2.81
	67	41.0	19.1	23.0	26.9	29.4	2.85
105	63	36.5	24.0	27.9	31.8	34.4	3.18
	67	38.9	18.3	22.2	26.1	28.7	3.22
	71	41.5	12.6	16.4	20.3	22.9	3.27
115	63	34.6	23.3	27.2	31.0	33.6	3.54
	67	36.9	17.6	21.5	25.3	27.9	3.60
	71	39.2	11.8	15.7	19.6	22.1	3.66

CORRECTION FACTORS - OTHER AIRFLOWS (MULTIPLY OR ADD AS INDICATED)			
	AIRFLOW	TOTAL CAP	SENS. CAP
LOW	1225	X0.99	X0.94
HIGH	1400	X1.00	X1.00

VALUES AT ARI RATING CONDITIONS
TOTAL NET CAPACITY = 41000 BTUH
 AIRFLOW = 1400 CFM
 APP. DEW PT. = 55.4 DEG. F
 COMPRESSOR POWER = 2850 WATTS
 I.D. FAN POWER = 450 WATTS
 O.D. FAN POWER = 250 WATTS
 S.E.E.R. = 13.00 BTUH/WATT
 E.E.R. = 11.66 BTUH/WATT
*** DRY COIL CONDITION (TOTAL CAPACITY = SENSIBLE CAPACITY)**
TOTAL CAPACITY, COMP. KW AND APP. DEW PT. ARE VALID ONLY FOR WET COIL
 ALL TEMPERATURES IN DEGREES F.

Fan Performance Data

INDOOR BLOWER

TCK024B

MOTOR SPEED		EXTERNAL STATIC PRESSURE (IN. WG)			
		0.2	0.3	0.4	0.5
② LOW	WATTS	294	276	249	225
	CFM	826	797	724	625
HIGH	WATTS	430	404	325	344
	CFM	1131	1081	1006	916

① - WET COIL, NO FILTERS

② - FACTORY SETTING

INDOOR BLOWER

TCK, WCK030B

MOTOR SPEED		EXTERNAL STATIC PRESSURE (IN. WG)			
		0.2	0.3	0.4	0.5
② LOW	WATTS	178	190	197	209
	CFM	1015	994	930	893
HIGH	WATTS	224	226	239	249
	CFM	1100	1075	1038	991

① - WET COIL, NO FILTERS

② - FACTORY SETTING

INDOOR BLOWER

TCK, WCK036B

MOTOR SPEED		EXTERNAL STATIC PRESSURE (IN. WG)			
		0.2	0.3	0.4	0.5
② LOW	WATTS	295	308	323	335
	CFM	1242	1193	1153	1108
HIGH	WATTS	335	355	370	385
	CFM	1314	1274	1229	1183

① - WET COIL, NO FILTERS

② - FACTORY SETTING

INDOOR BLOWER

TCK, WCK042B

MOTOR SPEED		EXTERNAL STATIC PRESSURE (IN. WG)				
		0.2	0.3	0.4	0.5	0.6
② LOW	WATTS	412	433	450	456	473
	CFM	1451	1415	1385	1352	1330
HIGH	WATTS	559	589	614	578	-- --
	CFM	1655	1615	1578	1505	-- --

① - WET COIL, NO FILTERS

② - FACTORY SETTING

PRODUCT DATA

American Standard Inc., Tyler, TX 75711-9010

Electric Heater Data

TABLE 1				USING SINGLE SUPPLY CIRCUIT			HEATER ONLY SUPPLY CIRCUIT		
				TCK COOLING / HTG					
UNIT MODEL	ELECTRIC HEATER MODEL	RATED VOLTAGE	HEATER KW 208/240	MCA (2)	MAX FUSE OR HACR CKT BKR SIZE	CANADA ONLY MAXIMUM CKT BKR SIZE (5)	MCA (8)	MAX FUSE OR HACR CKT BKR SIZE	CANADA ONLY MAXIMUM CKT BKR SIZE (5)
TCK024B (6)	BAYHTRK105A	208 / 240	3.74 / 4.98	25 / 29	25 / 30	30 / 30	23 / 26	25 / 30	30 / 30
	BAYHTRK110A	208 / 240	7.48 / 9.96	47 / 55	50 / 60	50 / 60	45 / 52	45 / 60	50 / 60
	BAYHTRK111A	208 / 240	7.48 / 9.96	NOT USED WITH TCK024B			45 / 52	45 / 60	50 / 60
TCK030B	BAYHTRK105A	208 / 240	3.74 / 4.98	28 / 31	30 / 35	30 / 40	23 / 26	25 / 30	30 / 30
	BAYHTRK110A	208 / 240	7.48 / 9.96	50 / 57	50 / 60	50 / 60	45 / 52	45 / 60	50 / 60
TCK036B	BAYHTRK105A	208 / 240	3.74 / 4.98	28 / 31	30 / 35	30 / 40	23 / 26	25 / 30	30 / 30
	BAYHTRK110A	208 / 240	7.48 / 9.96	50 / 57	50 / 60	50 / 60	45 / 52	45 / 60	50 / 60
	BAYHTRK116A	208 / 240	11.22 / 14.94	73 / 83	80 / 90	100 / 100	68 / 78	70 / 80	70 / 100
TCK042B	BAYHTRK105A	208 / 240	3.74 / 4.98	30 / 34	30 / 35	30 / 40	23 / 26	25 / 30	30 / 30
	BAYHTRK110A	208 / 240	7.48 / 9.96	53 / 59	60 / 60	60 / 60	45 / 52	45 / 60	50 / 60
	BAYHTRK116A	208 / 240	11.22 / 14.94	75 / 85	80 / 90	100 / 100	68 / 78	70 / 80	70 / 100

NOTES:

- 1. Any power supply and circuits must be wired and protected in accordance with local electrical codes.
- 2. The MCA values listed are for electric heater and cooling unit.
- 3. Field wire must be rated at least 75°C.
- 4. The HACR circuit breaker is for U.S.A. installations only.

- 5. For Canada installation reference only
- 6. BAYHTRK111A only approved for WCK024A1/WCK024B1
- 7. BAYHTRK106A only approved for TCK048A1
- 8. The MCA values listed are for electric heater only.
- 9. The MCA values listed are for electric heater and heat pump.

Field Installed Control Options

Thermostats

Two stages heating/cooling or one stage heating/cooling thermostats are available in either manual or automatic changeover.

Programmable Electronic Night Setback Thermostat

Heating setback and cooling setup with 7-day, 5-1-1 programming capability. Available in two heating/cooling or one heating/cooling versions with automatic changeover.

Supplemental Electric Heater

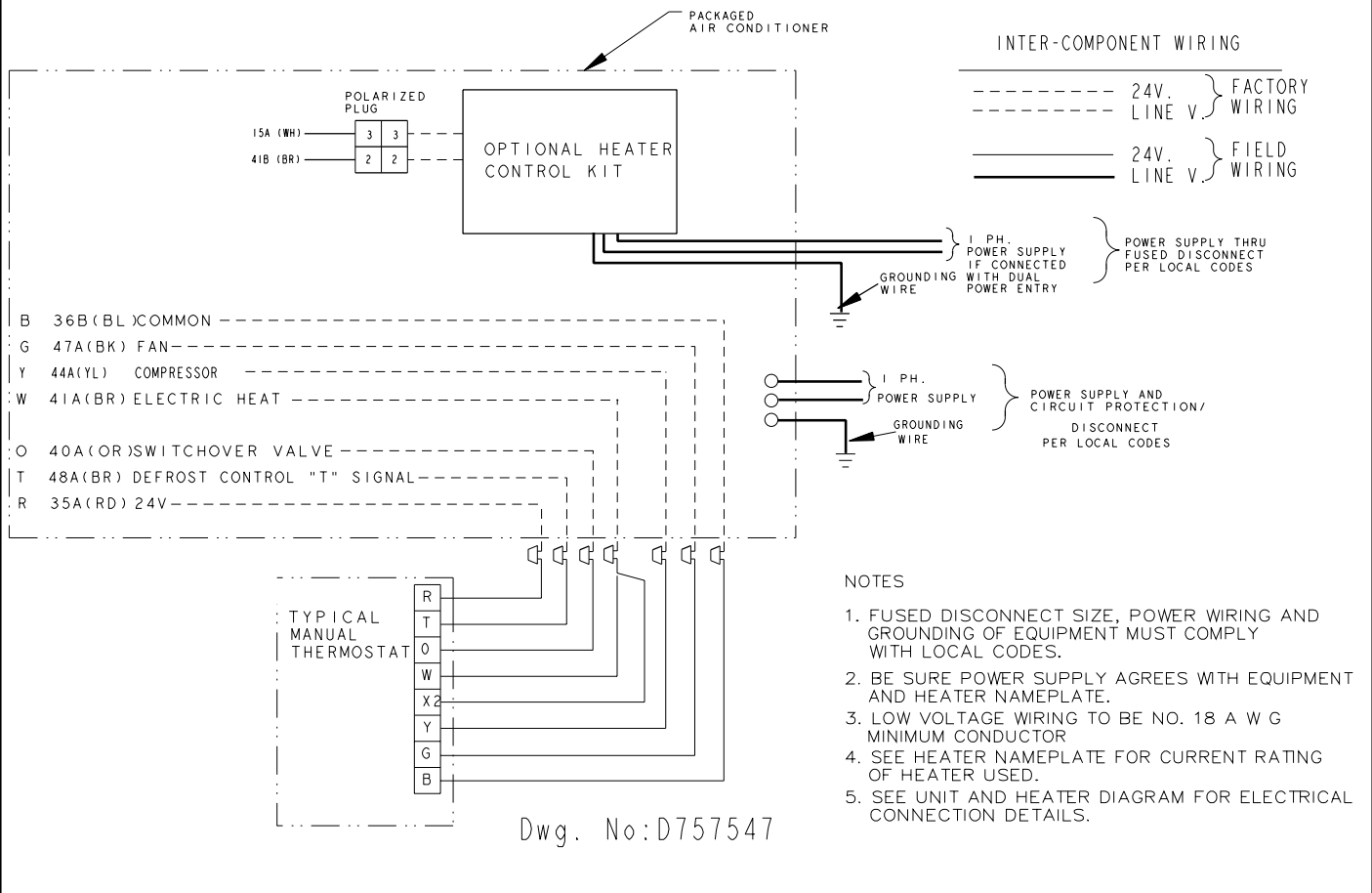
Heater module mounts in unit discharge air passage. Each heater assembly includes automatically resetting heat limit switches for thermal protection. A polarized plug provides connection to unit low voltage control wiring.

Low Ambient Control Kit

Provides low ambient cooling operation to 0° F.

Hook Up Diagram

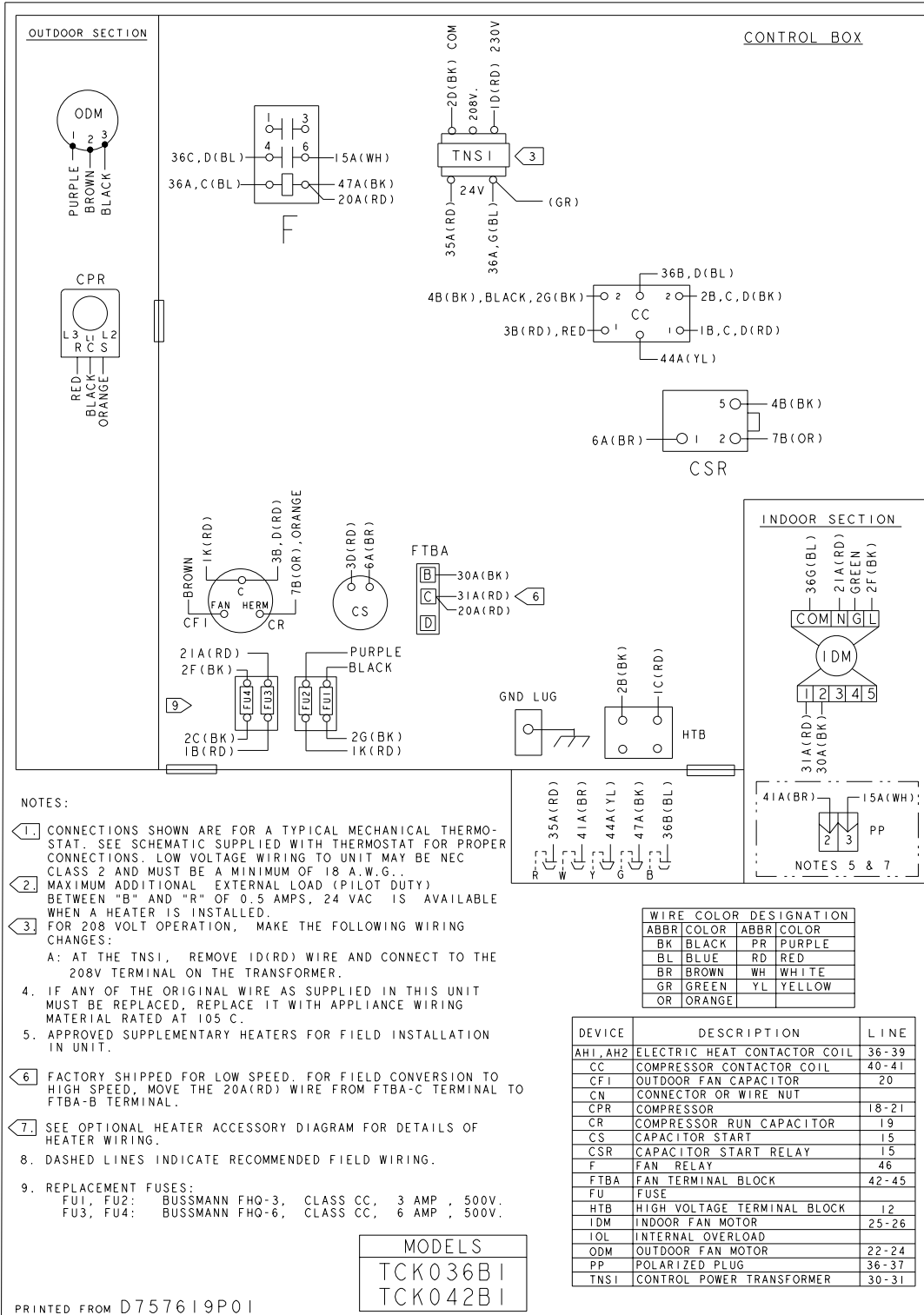
TCK024, 030, 036, 042B Units (With Supplementary Heaters)



PRODUCT DATA

American Standard Inc., Tyler, TX 75711-9010

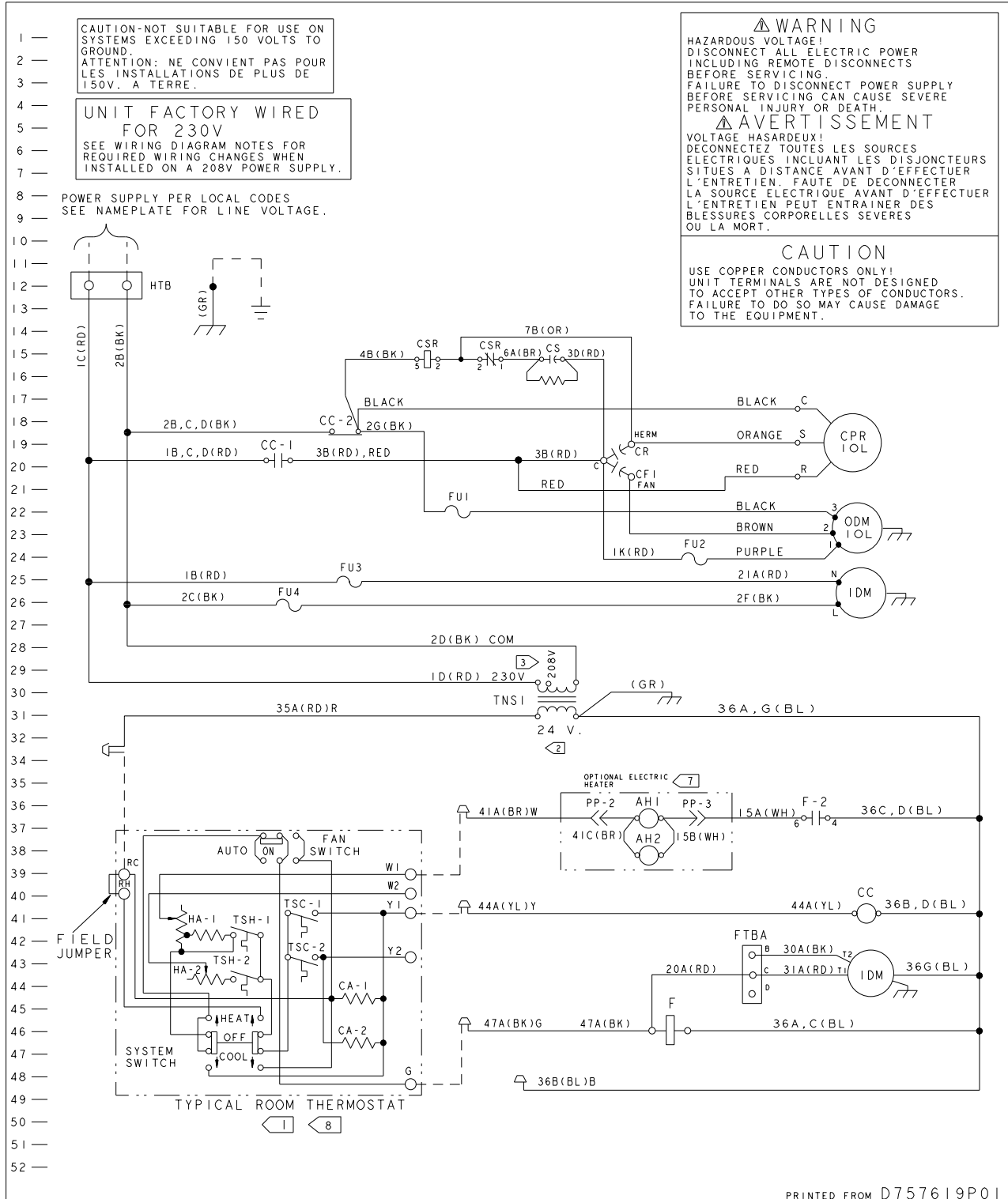
Typical Wiring



**Typical Wiring Diagram
For Specific Wiring
see individual Service Facts**

(continued on next page)

Typical Wiring



Typical Wiring Diagram For Specific Wiring see individual Service Facts

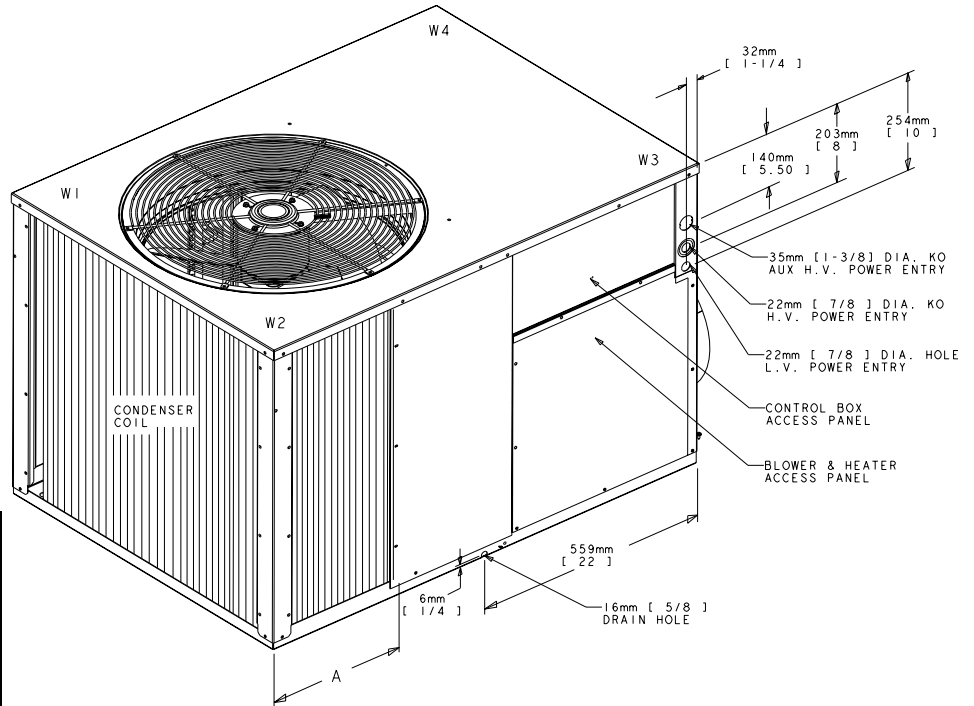
PRODUCT DATA

American Standard Inc., Tyler, TX 75711-9010

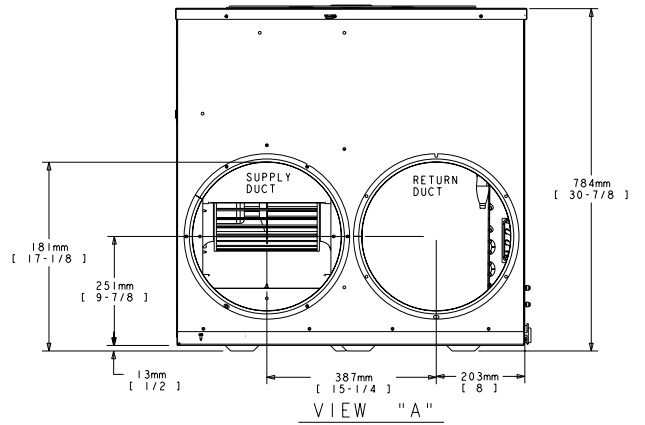
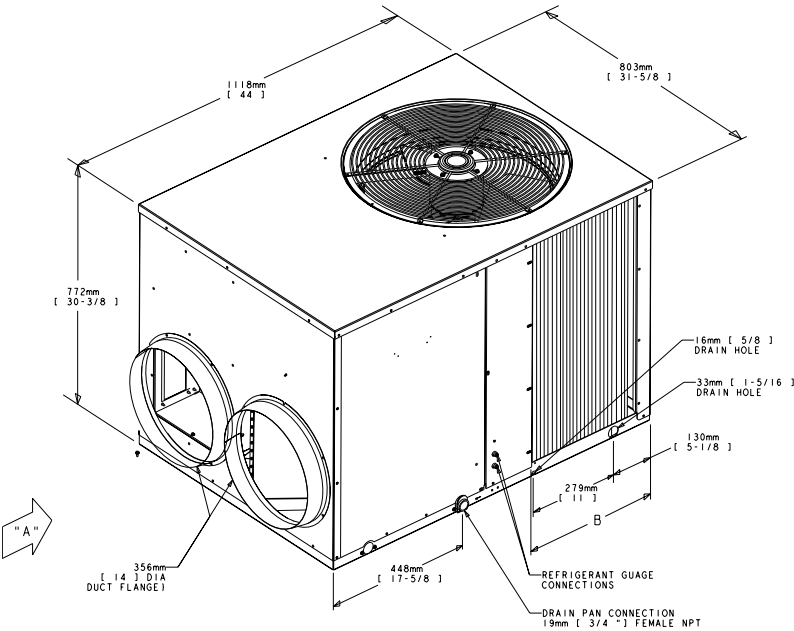
Dimensional Data

TCK024-042B OUTLINE DRAWING

NOTE: ALL DIMENSIONS ARE IN MM (INCHES)



INSTALLATION/SERVICE CLEARANCE	
BACK	48.0"
LEFT SIDE	24.0"
RIGHT SIDE	36.0"
TOP	36.0"



MODEL	APPROX. CORNER WEIGHT - KG/LBS				TOTAL WEIGHT KG/LBS	COIL DIMENSION	
	W1	W2	W3	W4		A	B
TCK042BI	34.90 (77)	37.20 (82)	34.90 (77)	32.70 (72)	139.70 (308)	441 (17-3/8)	413 (16-1/8)
TCK036BI	33.60 (74)	36.70 (81)	33.60 (74)	30.80 (68)	134.70 (297)	441 (17-3/8)	413 (16-1/8)
TCK030BI	30.80 (68)	38.60 (85)	34.90 (77)	28.10 (62)	131.90 (291)	302 (11-7/8)	413 (16-1/8)
TCK024BI	34.0 (75)	34.0 (75)	31.30 (69)	31.30 (69)	130.2 (287)	302 (11-7/8)	413 (16-1/8)



Mechanical Specifications

General

All units are factory assembled, piped, internally wired and fully charged with R-22. Units are UL listed and carry a UL label. All units are factory run-tested to check cooling and heating operation, defrost operation, fan and blower rotation and control sequence. Units are designed to operate at ambient temperatures between 115° F. and 45° F. in cooling mode (as shipped) and between 75° F. and -20° F. in heating mode. Cooling and heating performances are rated in accordance with ARI standards. Units are designed for either ground level or rooftop installation.

Unit Casing

All components are mounted in a weather-resistant steel cabinet with a baked-on enamel finish. Access panels are provided for unit controls, indoor coil and supply air fan. The indoor air section is completely insulated with fireproof, permanent, foil faced odorless glass fiber material and waterproof closed-cell foam base insulation. Knockouts are provided for utility and control connections. Drain connections are provided to accommodate indoor coil water runoff. Coil guards are provided for the protection of the outdoor coil.

Compressor

Hermetically sealed, high efficiency Climatuff® compressor designed for heat pump duty. Internal line break over current and over temperature protection, high and low pressure protection.

Refrigerant Circuit

All units have thermostatic expansion valve refrigerant control for heating operation and either thermostatic expansion valve refrigerant control for cooling operation. Service pressure tap ports, check valves, solenoid-operated reversing valve, and refrigerant line filter driers are standard.

Indoor and Outdoor Coil

Indoor and outdoor coils are constructed of aluminum plate fins mechanically bonded to seamless copper tubing.

Outdoor Fan

One, direct-drive, statically and dynamically balanced propeller fan is used in top discharge configuration. Permanently lubricated weatherproof motors have built-in thermal overload protection.

Indoor Fan

Forward-curved, centrifugal-type fan with multi-speed, direct-drive motor. Motor

shall be permanently lubricated and has built-in overload protection.

Demand Defrost Control

The electronic demand defrost control measures outdoor ambient and outdoor coil conditions and eliminates unnecessary defrost cycles.

Accessories

Supplemental Electric Heater —

Heater module shall mount in unit discharge air passage. Each heater assembly includes automatically resetting heat limit switches for thermal protection. A polarized plug provides connection to unit low voltage control wiring.

Indoor Thermostat — Two-stage heating, one-stage cooling thermostat is available in either manual or automatic changeover. Thermostat provides automatic or continuous fan operation and includes outdoor thermistor, emergency heat switch with indicator light, and auxiliary heat indicator light.

Low Ambient Control Kit — Provides low ambient cooling operation to 0° F.

