



PACKAGE AIR CONDITIONERS

FORM NO. STZ-935

Featuring Earth-Friendly R-410A Refrigerant



TZCAC-3 13 SEER SERIES
NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]



*Unit shown with optional louver panels installed.

Manufactured for
Thermal Zone®
Philadelphia, PA

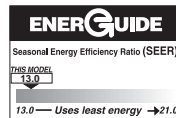
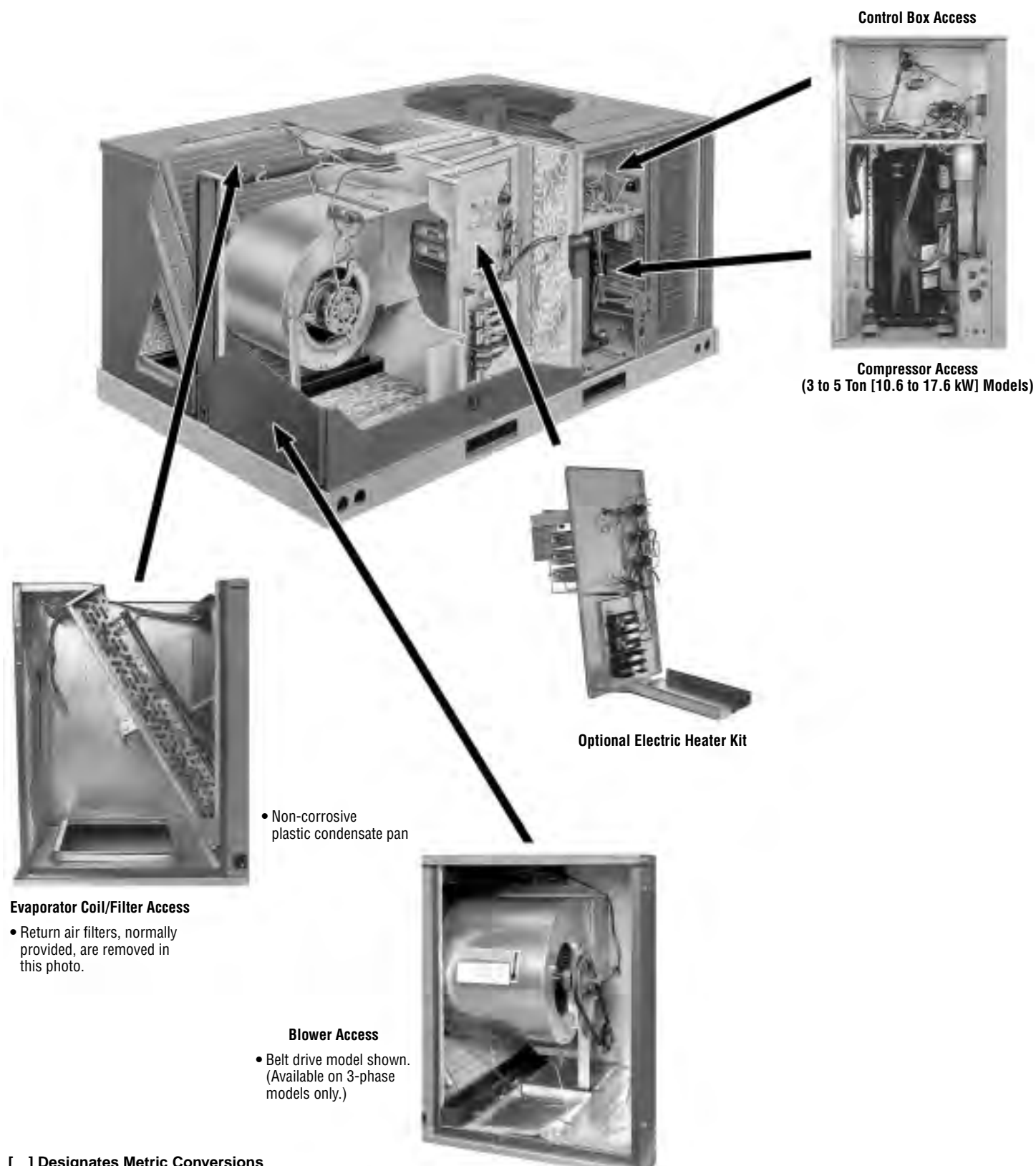


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These quality features are included in the Thermal Zone® Package Outdoor Air Conditioning Unit



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INTRODUCTION

These quality features are included in the Thermal Zone® Package Air Conditioner



TZCAC-3 - 36, 42, 48, 60

STANDARD FEATURES INCLUDE:

- R-410A HFC refrigerant.
- Complete factory charged, wired and run tested.
- Scroll compressors with internal line break overload and high-pressure protection.
- Single stage compressor on all models.
- Convertible airflow.
- TXV refrigerant metering system on each circuit.
- High Pressure and Low Pressure/Loss of charge protection standard on all models.
- Solid Core liquid line filter drier on each circuit.
- Single slab, single pass designed evaporator coil facilitates easy cleaning for maintained high efficiencies.
- Cooling operation up to 125 degree F ambient.
- Easily removable filter, blower, gas heat, and compressor/control access panels permits prompt service.
- Powder Paint Finish meets ASTM B117 steel coated on each side for maximum protection. G90 galvanized.
- One piece top cover and one piece base pan with drawn supply and return opening for superior water management.
- Externally mounted refrigerant gauge ports for easy service diagnostics.
- Factory or field-installed electric heat kits available up to 24 kW.
- Easy to install plug-in; slip in, 100% fully modulating economizer.
- Forkable base rails for easy handling and lifting.
- Single point electrical and gas connections.
- Direct drive or high performance belt drive motor with variable pitch pulleys and quick adjust belt system.
- Permanently lubricated evaporator, condenser and gas heat inducer motors.
- Condenser motors are internally protected, totally enclosed with shaft down design.
- 1 inch filter standard with slide out design.
- Colored and labeled wiring.
- Copper tube/Aluminum Fin coils.
- Molded compressor plug.

TZCAC-3 SELECTION PROCEDURES

1. Determine cooling and heating requirements at design conditions.

Example:

Power supply	208/230 - 3 Phase
Total cooling capacity	42,500 BTUH [12.44 kW]
Sensible cooling capacity	34,000 BTUH [9.96 kW]
Heating capacity	None
Condenser entering air	95°F [35°C]
Evaporator entering air	63°F [17°C] wb/76°F [24°C] db
Indoor air flow	1600 CFM [755 L/s]
External static pressure	1.1 in wg
Required efficiency	13 SEER

2. Select unit to meet cooling requirements.

Since total cooling is within the range of 4 ton [14.07 kW] unit and requires 13 SEER efficiency level, enter cooling performance from the TZCAC-3A048 table, at 95°F [35°C] outdoor temperature, 63°F [17°C] wb entering indoor air, and 1600 CFM [755 L/s]:

Total capacity	45,100 BTUH [13.21 kW]
Power supply	44,100 BTUH [12.91 kW]
Power input	3.6 kW

And also, at 76°F [24°C] db indoor entering air, and using the formula at the bottom of the page:

Sensible capacity38,327 BTUH [11.22 kW]

3. Determine blower speed and power to meet the system requirements.

At the given external static pressure of 1.1 in wg, the belt model must be selected. Enter the belt drive blower performance table at 1600 CFM [755 L/s] and 1.1 in wg ESP:

RPM	1195
Watts	755
Drive	M

4. Calculate indoor blower BTUH heat effect.

BTUH = Watts x 3.413 = 2577

5. Calculate net cooling capacities.

Net total cooling = 45,100 – 2577 = 42,523 BTUH [12.45 kW]
 Net sensible cooling = 36,908 – 2577 = 35,750 BTUH [10.06 kW]

6. Select Model

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MODEL IDENTIFICATION—TZCAC-3 SERIES



<u>TZ</u>	<u>C</u>	<u>A</u>	<u>C</u> — <u>3</u>	<u>36</u>	<u>J</u>	<u>L</u>	<u>D</u>	<u>A</u>
THERMAL ZONE®	COMMERCIAL	AIR CONDITIONING	CONVERTIBLE 3 = 13 SEER	COOLING CAPACITY	ELECTRICAL DESIGNATION	DESIGN SERIES	D = DIRECT DRIVE	REVISION
				36 = 36,000 [10.55 kW]	J = 208-230V —1PH—60Hz	A = R-410A REFRIGERANT		
				42 = 42,000 [12.31 kW]	C = 208-230V —3PH—60Hz			
				48 = 48,000 [14.07 kW]	D = 460V —3PH—60Hz			
				60 = 60,000 [17.58 kW]				

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FACTORY INSTALLED OPTION CODES (3-5 Ton) [10.6-17.6 kW]

Option Code	Hail Guard	Non-Powered Convenience Outlet	Low Ambient/ Freeze Stat
AD	x		
AG		x	
AP			x
BY	x		x
BJ	x	x	
CX	x	x	x
JC		x	x

ECONOMIZER SELECTION (3-5 Ton) [10.6-17.6 kW]

	No Economizer	Single Enthalpy Economizer With Barometric Relief
A	x	
B		x

"x" indicates factory installed option.

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GENERAL DATA—TZCAC-3 SERIES

NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model TZCAC-3 Series	336CLDA	336DLDA	336JLDA	342CLDA
Cooling Performance¹				CONTINUED →
Gross Cooling Capacity Btu [kW]	36,800 [10.78]	36,800 [10.78]	36,800 [10.78]	42,500 [12.45]
EER/SEER ²	11.4/13	11.4/13	11.4/13	11.2/13
Nominal CFM/ARI Rated CFM [L/s]	1200/1200 [566/566]	1200/1200 [566/566]	1200/1200 [566/566]	1400/1450 [661/684]
ARI Net Cooling Capacity Btu [kW]	35,400 [10.37]	35,400 [10.37]	35,400 [10.37]	40,500 [11.87]
Net Sensible Capacity Btu [kW]	26,200 [7.68]	26,200 [7.68]	26,200 [7.68]	30,600 [8.97]
Net Latent Capacity Btu [kW]	9,200 [2.7]	9,200 [2.7]	9,200 [2.7]	9,900 [2.9]
Net System Power kW	3.1	3.1	3.1	3.62
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)³	78	78	78	78
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	16.91 [1.57]	16.91 [1.57]	16.91 [1.57]	16.91 [1.57]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]	1.53 / 22 [9]
Indoor Coil - Fin Type	Corrugated	Corrugated	Corrugated	Corrugated
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	2 / 17 [7]	2 / 17 [7]	2 / 17 [7]	3 / 13 [5]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
No. Motors/HP	1 at 1/3 HP	1 at 1/3 HP	1 at 1/3 HP	1 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Direct/3	Direct/3	Direct/3	Direct/3
No. Motors	1	1	1	1
Motor HP	1/2	1/2	1/2	1/2
Motor RPM	1075	1075	1075	1075
Motor Frame Size	48	48	48	48
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	96 [2722]	96 [2722]	96 [2722]	125 [3544]
Weights				
Net Weight lbs. [kg]	543 [246]	543 [246]	543 [246]	570 [259]
Ship Weight lbs. [kg]	550 [249]	550 [249]	550 [249]	577 [262]

See Page 11 for Notes.

[] Designates Metric Conversions

NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model TZCAC-3 Series	342DLDA	342JLDA	348CLDA	348DLDA
Cooling Performance¹				CONTINUED →
Gross Cooling Capacity Btu [kW]	42,500 [12.45]	50,000 [14.65]	50,000 [14.65]	50,000 [14.65]
EER/SEER ²	11.2/13	11.2/13	11.45/13	11.45/13
Nominal CFM/ARI Rated CFM [L/s]	1400/1450 [661/684]	1400/1450 [661/684]	1600/1600 [755/755]	1600/1600 [755/755]
ARI Net Cooling Capacity Btu [kW]	40,500 [11.87]	40,500 [11.87]	48,000 [14.06]	48,000 [14.06]
Net Sensible Capacity Btu [kW]	30,600 [8.97]	30,600 [8.97]	35,600 [10.43]	35,600 [10.43]
Net Latent Capacity Btu [kW]	9,900 [2.9]	9,900 [2.9]	12,400 [3.63]	12,400 [3.63]
Net System Power kW	3.62	3.62	4.19	4.19
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)³	78	78	78	78
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	16.91 [1.57]	16.91 [1.57]	16.56 [1.54]	16.56 [1.54]
Rows / FPI [FPcm]	1.53 / 22 [9]	1.53 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil - Fin Type	Corrugated	Corrugated	Corrugated	Corrugated
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	3 / 13 [5]	3 / 13 [5]	3 / 15 [6]	3 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	3680 [1737]	3680 [1737]	3680 [1737]	3680 [1737]
No. Motors/HP	1 at 1/3 HP	1 at 1/3 HP	1 at 1/3 HP	1 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Direct/3	Direct/3	Direct/3	Direct/3
No. Motors	1	1	1	1
Motor HP	1/2	1/2	1/2	1/2
Motor RPM	1075	1075	1075	1075
Motor Frame Size	48	48	48	48
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	125 [3544]	125 [3544]	165 [4678]	165 [4678]
Weights				
Net Weight lbs. [kg]	570 [259]	570 [259]	580 [263]	580 [263]
Ship Weight lbs. [kg]	577 [262]	577 [262]	587 [266]	587 [266]

See Page 11 for Notes.

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GENERAL DATA—TZCAC-3 SERIES

NOMINAL SIZES 3-5 TONS [10.6-17.6 kW]

Model TZCAC-3 Series	348JLDA	360CLDA	360DLDA	360JLDA
Cooling Performance¹				CONTINUED →
Gross Cooling Capacity Btu [kW]	50,000 [14.65]	61,000 [17.87]	61,000 [17.87]	61,000 [17.87]
EER/SEER ²	11.45/13	11.1/13	11.1/13	11.1/13
Nominal CFM/ARI Rated CFM [L/s]	1600/1600 [755/755]	2000/1900 [944/897]	2000/1900 [944/897]	2000/1900 [944/897]
ARI Net Cooling Capacity Btu [kW]	48,000 [14.06]	59,000 [17.29]	59,000 [17.29]	59,000 [17.29]
Net Sensible Capacity Btu [kW]	35,600 [10.43]	42,000 [12.31]	42,000 [12.31]	42,000 [12.31]
Net Latent Capacity Btu [kW]	12,400 [3.63]	17,000 [4.98]	17,000 [4.98]	17,000 [4.98]
Net System Power kW	4.19	5.32	5.32	5.32
Compressor				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)³	78	83	83	83
Outdoor Coil - Fin Type	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	16.56 [1.54]	16.56 [1.54]	16.56 [1.54]	16.56 [1.54]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]	2 / 22 [9]
Indoor Coil - Fin Type	Corrugated	Corrugated	Corrugated	Corrugated
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]
Rows / FPI [FPcm]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]	3 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]	1/0.75 [19.05]
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	3680 [1737]	3930 [1855]	3930 [1855]	3930 [1855]
No. Motors/HP	1 at 1/3 HP	1 at 1/3 HP	1 at 1/3 HP	1 at 1/3 HP
Motor RPM	1075	1075	1075	1075
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]	1/10x10 [254x254]
Drive Type/No. Speeds	Direct/3	Direct/3	Belt/Variable	Direct/3
No. Motors	1	1	1	1
Motor HP	1/2	1	3/4	1
Motor RPM	1075	1075	1725	1075
Motor Frame Size	48	48	56	48
Filter - Type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(NO.) Size Recommended in. [mm x mm x mm]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]	(1)1x16x25 [25x406x635]
Refrigerant Charge Oz. [g]	165 [4678]	160 [4536]	160 [4536]	160 [4536]
Weights				
Net Weight lbs. [kg]	580 [263]	590 [268]	590 [268]	590 [268]
Ship Weight lbs. [kg]	587 [266]	597 [271]	597 [271]	597 [271]

See Page 11 for Notes.

[] Designates Metric Conversions

NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. ARI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to $\pm 20\%$ of nominal CFM. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on ARI Standard 210/240 or 360.
2. EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with ARI Standard 270.

SYSTEMS PERFORMANCE—TZCAC-3 SERIES

GROSS SYSTEMS PERFORMANCE DATA—336

		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
		wbE	71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
		CFM [L/s]	1500 [708]	1200 [566]	900 [425]	1500 [708]	1200 [566]	900 [425]	1500 [708]	1200 [566]	900 [425]
		DR ①	.19	.15	.11	.19	.15	.11	.19	.15	.11
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	46.6 [13.66]	44.6 [13.07]	42.5 [12.46]	43.2 [12.66]	41.4 [12.13]	39.5 [11.58]	40.2 [11.78]	38.4 [11.25]	36.7 [10.76]
		Sens BTUH [kW]	28.3 [8.29]	25.3 [7.41]	22.4 [6.56]	33.4 [9.79]	29.9 [8.76]	26.4 [7.74]	38.6 [11.31]	34.6 [10.14]	30.5 [8.94]
		Power	2.1	2.1	2.0	2.2	2.1	2.1	2.2	2.1	2.1
	80 [26.7]	Total BTUH [kW]	45.4 [13.31]	43.5 [12.75]	41.5 [12.16]	42.1 [12.34]	40.3 [11.81]	38.4 [11.25]	39.0 [11.43]	37.3 [10.93]	35.6 [10.43]
		Sens BTUH [kW]	27.7 [8.12]	24.8 [7.27]	21.9 [6.42]	32.8 [9.61]	29.4 [8.62]	25.9 [7.59]	38.0 [11.14]	34.0 [9.96]	30.1 [8.82]
		Power	2.3	2.2	2.2	2.3	2.3	2.2	2.3	2.3	2.2
	85 [29.4]	Total BTUH [kW]	44.3 [12.98]	42.3 [12.40]	40.4 [11.84]	40.9 [11.99]	39.2 [11.49]	37.4 [10.96]	37.9 [11.11]	36.2 [10.61]	34.6 [10.14]
		Sens BTUH [kW]	27.1 [7.94]	24.2 [7.09]	21.4 [6.27]	32.2 [9.44]	28.8 [8.44]	25.4 [7.44]	37.4 [10.96]	33.5 [9.82]	29.6 [8.67]
		Power	2.4	2.4	2.3	2.4	2.4	2.4	2.5	2.4	2.4
	90 [32.2]	Total BTUH [kW]	43.1 [12.63]	41.2 [12.07]	39.3 [11.52]	39.8 [11.66]	38.0 [11.14]	36.3 [10.64]	36.7 [10.76]	35.1 [10.29]	33.5 [9.82]
	Sens BTUH [kW]	26.4 [7.74]	23.7 [6.95]	20.9 [6.13]	31.5 [9.23]	28.2 [8.26]	25.0 [7.33]	36.7 [10.76]	32.9 [9.64]	29.1 [8.53]	
	Power	2.5	2.5	2.4	2.6	2.5	2.5	2.6	2.5	2.5	
95 [35]	Total BTUH [kW]	41.9 [12.28]	40.1 [11.75]	38.3 [11.22]	38.6 [11.31]	36.9 [10.81]	35.2 [10.32]	35.5 [10.40]	33.9 [9.94]	32.4 [9.50]	
	Sens BTUH [kW]	25.8 [7.56]	23.1 [6.77]	20.4 [5.98]	30.9 [9.06]	27.7 [8.12]	24.5 [7.18]	35.5 [10.40]	32.4 [9.50]	28.6 [8.38]	
	Power	2.7	2.6	2.6	2.7	2.7	2.6	2.7	2.7	2.6	
100 [37.8]	Total BTUH [kW]	40.7 [11.93]	38.9 [11.40]	37.1 [10.87]	37.3 [10.93]	35.7 [10.46]	34.1 [9.99]	34.3 [10.05]	32.8 [9.61]	31.3 [9.17]	
	Sens BTUH [kW]	25.2 [7.39]	22.5 [6.59]	19.9 [5.83]	30.3 [8.88]	27.1 [7.94]	23.9 [7.00]	34.3 [10.05]	31.8 [9.32]	28.1 [8.24]	
	Power	2.8	2.8	2.7	2.9	2.8	2.7	2.9	2.8	2.8	
105 [40.6]	Total BTUH [kW]	39.4 [11.55]	37.7 [11.05]	36.0 [10.55]	36.1 [10.58]	34.5 [10.11]	32.9 [9.64]	33.0 [9.67]	31.6 [9.26]	30.1 [8.82]	
	Sens BTUH [kW]	24.5 [7.18]	21.9 [6.42]	19.4 [5.69]	29.6 [8.67]	26.5 [7.77]	23.4 [6.86]	33.0 [9.67]	31.2 [9.14]	27.5 [8.06]	
	Power	3.0	2.9	2.8	3.0	2.9	2.9	3.0	2.9	2.9	
110 [43.3]	Total BTUH [kW]	38.1 [11.17]	36.5 [10.70]	34.8 [10.20]	34.8 [10.20]	33.3 [9.76]	31.8 [9.32]	31.7 [9.29]	30.3 [8.88]	29.0 [8.50]	
	Sens BTUH [kW]	23.7 [6.95]	21.3 [6.24]	18.8 [5.51]	28.8 [8.44]	25.8 [7.56]	22.8 [6.68]	31.7 [9.29]	30.3 [8.88]	26.9 [7.88]	
	Power	3.1	3.0	3.0	3.1	3.1	3.0	3.1	3.1	3.0	
115 [46.1]	Total BTUH [kW]	36.8 [10.79]	35.2 [10.32]	33.6 [9.85]	33.5 [9.82]	32.0 [9.38]	30.6 [8.97]	30.4 [8.91]	29.1 [8.53]	27.7 [8.12]	
	Sens BTUH [kW]	23.0 [6.74]	20.6 [6.04]	18.2 [5.33]	28.1 [8.24]	25.1 [7.36]	22.2 [6.51]	30.4 [8.91]	29.1 [8.53]	26.3 [7.71]	
	Power	3.2	3.2	3.1	3.3	3.2	3.1	3.3	3.2	3.1	

GROSS SYSTEMS PERFORMANCE DATA—342

		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
		wbE	71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
		CFM [L/s]	1810 [854.2]	1450 [684.3]	1090 [514.4]	1810 [854.2]	1450 [684.3]	1090 [514.4]	1810 [854.2]	1450 [684.3]	1090 [514.4]
		DR ①	.20	.16	.10	.20	.16	.10	.20	.16	.10
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	52.9 [15.50]	50.6 [14.83]	48.3 [14.16]	49.8 [14.59]	47.6 [13.95]	45.5 [13.33]	47.4 [13.89]	45.3 [13.28]	43.3 [12.69]
		Sens BTUH [kW]	32.9 [9.64]	29.4 [8.62]	26.0 [7.62]	39.1 [11.46]	35.0 [10.26]	30.9 [9.06]	45.3 [13.28]	40.6 [11.90]	35.9 [10.52]
		Power	2.5	2.5	2.4	2.5	2.5	2.4	2.5	2.5	2.4
	80 [26.7]	Total BTUH [kW]	51.5 [15.09]	49.3 [14.45]	47.0 [13.77]	48.5 [14.21]	46.3 [13.57]	44.2 [12.95]	46.0 [13.48]	44.0 [12.90]	42.0 [12.31]
		Sens BTUH [kW]	32.1 [9.41]	28.7 [8.41]	25.4 [7.44]	38.3 [11.22]	34.3 [10.05]	30.3 [8.88]	44.8 [13.13]	39.9 [11.69]	35.3 [10.35]
		Power	2.7	2.6	2.6	2.7	2.6	2.6	2.7	2.6	2.6
	85 [29.4]	Total BTUH [kW]	50.1 [14.68]	48.0 [14.07]	45.8 [13.42]	47.1 [13.80]	45.0 [13.19]	43.0 [12.60]	44.7 [13.10]	42.7 [12.51]	40.8 [11.96]
		Sens BTUH [kW]	31.3 [9.17]	28.1 [8.24]	24.8 [7.27]	37.6 [11.02]	33.6 [9.85]	29.7 [8.70]	44.0 [12.90]	39.3 [11.52]	34.7 [10.17]
		Power	2.8	2.8	2.7	2.8	2.8	2.7	2.8	2.8	2.7
	90 [32.2]	Total BTUH [kW]	48.7 [14.27]	46.6 [13.66]	44.5 [13.04]	45.7 [13.39]	43.7 [12.81]	41.7 [12.22]	43.2 [12.66]	41.4 [12.13]	39.5 [11.58]
	Sens BTUH [kW]	30.7 [9.00]	27.4 [8.03]	24.2 [7.09]	36.9 [10.81]	33.0 [9.67]	29.2 [8.56]	43.0 [12.60]	38.7 [11.34]	34.2 [10.02]	
	Power	3.0	2.9	2.9	3.0	2.9	2.9	3.0	2.9	2.9	
95 [35]	Total BTUH [kW]	47.3 [13.86]	45.2 [13.25]	43.2 [12.66]	44.2 [12.95]	42.3 [12.40]	40.4 [11.84]	41.8 [12.25]	40.0 [11.72]	38.2 [11.20]	
	Sens BTUH [kW]	30.0 [8.79]	26.8 [7.85]	23.7 [6.95]	36.2 [10.61]	32.4 [9.50]	28.6 [8.38]	41.8 [12.25]	38.0 [11.14]	33.6 [9.85]	
	Power	3.2	3.1	3.0	3.2	3.1	3.0	3.2	3.1	3.0	
100 [37.8]	Total BTUH [kW]	45.8 [13.42]	43.8 [12.84]	41.8 [12.25]	42.7 [12.51]	40.9 [11.99]	39.0 [11.43]	40.3 [11.81]	38.6 [11.31]	36.8 [10.79]	
	Sens BTUH [kW]	29.2 [8.56]	26.2 [7.68]	23.1 [6.77]	35.4 [10.37]	31.7 [9.29]	28.0 [8.21]	40.3 [11.81]	37.4 [10.96]	33.0 [9.67]	
	Power	3.3	3.3	3.2	3.3	3.2	3.2	3.3	3.2	3.2	
105 [40.6]	Total BTUH [kW]	44.3 [12.98]	42.3 [12.40]	40.4 [11.84]	41.2 [12.07]	39.4 [11.55]	37.6 [11.02]	38.8 [11.37]	37.1 [10.87]	35.4 [10.37]	
	Sens BTUH [kW]	28.5 [8.35]	25.5 [7.47]	22.5 [6.59]	34.7 [10.17]	31.0 [9.09]	27.4 [8.03]	38.8 [11.37]	36.7 [10.76]	32.4 [9.50]	
	Power	3.5	3.4	3.3	3.5	3.4	3.3	3.5	3.4	3.3	
110 [43.3]	Total BTUH [kW]	42.7 [12.51]	40.8 [11.96]	39.0 [11.43]	39.6 [11.61]	37.9 [11.11]	36.2 [10.61]	37.2 [10.90]	35.6 [10.43]	34.0 [9.96]	
	Sens BTUH [kW]	27.6 [8.09]	24.7 [7.24]	21.8 [6.39]	33.8 [9.91]	30.3 [8.88]	26.7 [7.83]	37.2 [10.90]	35.6 [10.43]	31.7 [9.29]	
	Power	3.6	3.6	3.5	3.6	3.6	3.5	3.6	3.6	3.5	
115 [46.1]	Total BTUH [kW]	41.1 [12.05]	39.3 [11.52]	37.5 [10.99]	38.0 [11.14]	36.3 [10.64]	34.7 [10.17]	35.6 [10.43]	34.0 [9.96]	32.5 [9.52]	
	Sens BTUH [kW]	26.6 [7.80]	23.9 [7.00]	21.1 [6.18]	32.9 [9.64]	29.4 [8.62]	26.0 [7.62]	35.6 [10.43]	34.0 [9.96]	31.0 [9.09]	
	Power	3.8	3.7	3.6	3.8	3.7	3.6	3.8	3.7	3.6	

DR —Depression ratio
dbE —Entering air dry bulb
wbE —Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power —KW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

[] Designates Metric Conversions

SYSTEMS PERFORMANCE—TZCAC-3 SERIES

GROSS SYSTEMS PERFORMANCE DATA—348

		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
		wbE	71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
		CFM [L/s]	2000 [943.8]	1600 [755.1]	1200 [566.3]	2000 [943.8]	1600 [755.1]	1200 [566.3]	2000 [943.8]	1600 [755.1]	1200 [566.3]
		DR ①	.18	.14	.09	.18	.14	.09	.18	.14	.09
OUTDOOR DRY BULB TEMPERATURE	75 [23.9]	Total BTUH [kW]	63.8 [18.70]	61.1 [17.91]	58.3 [17.09]	59.4 [17.41]	56.9 [16.68]	54.3 [15.91]	54.4 [15.94]	52.0 [15.24]	49.6 [14.54]
		Sens BTUH [kW]	38.9 [11.40]	34.9 [10.23]	30.8 [9.03]	45.9 [13.45]	41.1 [12.05]	36.3 [10.64]	53.0 [15.53]	47.5 [13.92]	42.0 [12.31]
		Power	2.9	2.8	2.8	2.9	2.9	2.8	2.9	2.9	2.8
	80 [26.7]	Total BTUH [kW]	62.0 [18.17]	59.3 [17.38]	56.6 [16.59]	57.6 [16.88]	55.1 [16.15]	52.6 [15.42]	52.5 [15.39]	50.3 [14.74]	48.0 [14.07]
		Sens BTUH [kW]	38.0 [11.14]	34.0 [9.96]	30.0 [8.79]	44.9 [13.16]	40.2 [11.78]	35.5 [10.40]	52.1 [15.27]	46.6 [13.66]	41.2 [12.07]
		Power	3.1	3.0	3.0	3.1	3.0	3.0	3.1	3.1	3.0
	85 [29.4]	Total BTUH [kW]	60.2 [17.64]	57.6 [16.88]	55.0 [16.12]	55.8 [16.35]	53.4 [15.65]	50.9 [14.92]	50.7 [14.86]	48.5 [14.21]	46.3 [13.57]
		Sens BTUH [kW]	37.0 [10.84]	33.1 [9.70]	29.2 [8.56]	43.9 [12.87]	39.3 [11.52]	34.7 [10.17]	50.7 [14.86]	45.7 [13.39]	40.4 [11.84]
		Power	3.3	3.2	3.1	3.3	3.2	3.2	3.3	3.3	3.2
	90 [32.2]	Total BTUH [kW]	58.4 [17.12]	55.9 [16.38]	53.3 [15.62]	54.0 [15.83]	51.7 [15.15]	49.3 [14.45]	48.9 [14.33]	46.8 [13.72]	44.7 [13.10]
Sens BTUH [kW]		36.0 [10.55]	32.2 [9.44]	28.4 [8.32]	42.9 [12.57]	38.4 [11.25]	34.0 [9.96]	48.9 [14.33]	44.8 [13.13]	39.6 [11.61]	
Power		3.5	3.4	3.3	3.5	3.4	3.4	3.5	3.4	3.3	
95 [35]	Total BTUH [kW]	56.6 [16.59]	54.2 [15.88]	51.7 [15.15]	52.2 [15.30]	50.0 [14.65]	47.7 [13.98]	47.2 [13.83]	45.1 [13.22]	43.1 [12.63]	
	Sens BTUH [kW]	35.0 [10.26]	31.3 [9.17]	27.7 [8.12]	42.0 [12.31]	37.6 [11.02]	33.2 [9.73]	47.2 [13.83]	44.1 [12.92]	38.8 [11.37]	
	Power	3.7	3.6	3.5	3.7	3.6	3.5	3.6	3.6	3.5	
100 [37.8]	Total BTUH [kW]	54.9 [16.09]	52.6 [15.42]	50.2 [14.71]	50.5 [14.80]	48.4 [14.18]	46.2 [13.54]	45.5 [13.33]	43.5 [12.75]	41.5 [12.16]	
	Sens BTUH [kW]	34.1 [9.99]	30.5 [8.94]	26.9 [7.88]	41.0 [12.02]	36.7 [10.76]	32.5 [9.52]	45.5 [13.33]	43.1 [12.63]	38.1 [11.17]	
	Power	3.9	3.8	3.7	3.9	3.8	3.7	3.8	3.8	3.7	
105 [40.6]	Total BTUH [kW]	53.3 [15.62]	51.0 [14.95]	48.7 [14.27]	48.9 [14.33]	46.8 [13.72]	44.7 [13.10]	43.9 [12.87]	42.0 [12.31]	40.1 [11.75]	
	Sens BTUH [kW]	33.2 [9.73]	29.7 [8.70]	26.3 [7.71]	40.2 [11.78]	36.0 [10.55]	31.8 [9.32]	43.9 [12.87]	42.0 [12.31]	37.4 [10.96]	
	Power	4.0	4.0	3.9	4.1	4.0	3.9	4.0	4.0	3.9	
110 [43.3]	Total BTUH [kW]	51.9 [15.21]	49.6 [14.54]	47.4 [13.89]	47.5 [13.92]	45.4 [13.31]	43.3 [12.69]	42.4 [12.43]	40.5 [11.87]	38.7 [11.34]	
	Sens BTUH [kW]	32.4 [9.50]	29.1 [8.53]	25.7 [7.53]	39.4 [11.55]	35.3 [10.35]	31.2 [9.14]	42.4 [12.43]	40.5 [11.87]	36.8 [10.79]	
	Power	4.2	4.2	4.1	4.3	4.2	4.1	4.2	4.2	4.1	
115 [46.1]	Total BTUH [kW]	50.5 [14.80]	48.3 [14.16]	46.1 [13.51]	46.1 [13.51]	44.1 [12.92]	42.1 [12.34]	41.0 [12.02]	39.3 [11.52]	37.5 [10.99]	
	Sens BTUH [kW]	31.8 [9.32]	28.5 [8.35]	25.1 [7.36]	38.8 [11.37]	34.7 [10.17]	30.7 [9.00]	41.0 [12.02]	39.3 [11.52]	36.3 [10.64]	
	Power	4.4	4.3	4.3	4.5	4.4	4.3	4.4	4.4	4.2	

GROSS SYSTEMS PERFORMANCE DATA—360

		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
		wbE	71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]		
		CFM [L/s]	2380 [1123.2]	1900 [896.7]	1420 [670.1]	2380 [1123.2]	1900 [896.7]	1420 [670.1]	2380 [1123.2]	1900 [896.7]	1420 [670.1]
		DR ①	.22	.18	.15	.22	.18	.15	.22	.18	.15
OUTDOOR DRY BULB TEMPERATURE	75 [23.9]	Total BTUH [kW]	78.2 [22.92]	74.8 [21.92]	71.4 [20.93]	72.4 [21.22]	69.2 [20.28]	66.1 [19.37]	70.5 [20.66]	67.4 [19.75]	64.3 [18.84]
		Sens BTUH [kW]	46.4 [13.60]	41.5 [12.16]	36.7 [10.76]	53.7 [15.74]	48.1 [14.10]	42.5 [12.46]	61.8 [18.11]	55.3 [16.21]	48.9 [14.33]
		Power	3.9	3.8	3.7	3.9	3.8	3.7	3.8	3.8	3.7
	80 [26.7]	Total BTUH [kW]	76.2 [22.33]	72.9 [21.36]	69.6 [20.40]	70.4 [20.63]	67.3 [19.72]	64.2 [18.82]	68.4 [20.05]	65.4 [19.17]	62.5 [18.32]
		Sens BTUH [kW]	45.5 [13.33]	40.7 [11.93]	36.0 [10.55]	52.8 [15.47]	47.2 [13.83]	41.7 [12.22]	60.9 [17.85]	54.5 [15.97]	48.1 [14.10]
		Power	4.1	4.0	3.9	4.1	4.0	3.9	4.0	4.0	3.8
	85 [29.4]	Total BTUH [kW]	74.1 [21.72]	70.8 [20.75]	67.6 [19.81]	68.2 [19.99]	65.3 [19.14]	62.3 [18.26]	66.3 [19.43]	63.4 [18.58]	60.5 [17.73]
		Sens BTUH [kW]	44.4 [13.01]	39.7 [11.63]	35.1 [10.29]	51.6 [15.12]	46.2 [13.54]	40.8 [11.96]	59.7 [17.50]	53.5 [15.68]	47.3 [13.86]
		Power	4.3	4.3	4.2	4.4	4.3	4.2	4.2	4.2	4.1
	90 [32.2]	Total BTUH [kW]	71.9 [21.07]	68.7 [20.13]	65.6 [19.23]	66.0 [19.34]	63.1 [18.49]	60.3 [17.67]	64.1 [18.79]	61.3 [17.97]	58.5 [17.14]
Sens BTUH [kW]		43.1 [12.63]	38.6 [11.31]	34.1 [9.99]	50.4 [14.77]	45.1 [13.22]	39.9 [11.69]	58.5 [17.14]	52.4 [15.36]	46.3 [13.57]	
Power		4.6	4.5	4.4	4.6	4.5	4.4	4.5	4.4	4.3	
95 [35]	Total BTUH [kW]	69.6 [20.40]	66.6 [19.52]	63.6 [18.64]	63.8 [18.70]	61.0 [17.88]	58.2 [17.06]	61.8 [18.11]	59.1 [17.32]	56.4 [16.53]	
	Sens BTUH [kW]	41.8 [12.25]	37.5 [10.99]	33.1 [9.70]	49.1 [14.39]	44.0 [12.90]	38.9 [11.40]	57.2 [16.76]	51.2 [15.01]	45.3 [13.28]	
	Power	4.8	4.7	4.6	4.8	4.7	4.6	4.7	4.7	4.5	
100 [37.8]	Total BTUH [kW]	67.4 [19.75]	64.4 [18.87]	61.5 [18.02]	61.5 [18.02]	58.9 [17.26]	56.2 [16.47]	59.6 [17.47]	57.0 [16.71]	54.4 [15.94]	
	Sens BTUH [kW]	40.6 [11.90]	36.3 [10.64]	32.1 [9.41]	47.8 [14.01]	42.8 [12.54]	37.8 [11.08]	55.9 [16.38]	50.1 [14.68]	44.3 [12.98]	
	Power	5.1	5.0	4.9	5.1	5.0	4.9	5.0	4.9	4.8	
105 [40.6]	Total BTUH [kW]	65.2 [19.11]	62.4 [18.29]	59.5 [17.44]	59.3 [17.38]	56.8 [16.65]	54.2 [15.88]	57.4 [16.82]	54.9 [16.09]	52.4 [15.36]	
	Sens BTUH [kW]	39.3 [11.52]	35.2 [10.32]	31.1 [9.11]	46.6 [13.66]	41.8 [12.25]	36.9 [10.81]	54.7 [16.03]	49.0 [14.36]	43.3 [12.69]	
	Power	5.3	5.2	5.1	5.3	5.2	5.1	5.2	5.1	5.0	
110 [43.3]	Total BTUH [kW]	63.1 [18.49]	60.4 [17.70]	57.6 [16.88]	57.3 [16.79]	54.8 [16.06]	52.3 [15.33]	55.3 [16.21]	52.9 [15.50]	50.5 [14.80]	
	Sens BTUH [kW]	38.3 [11.22]	34.3 [10.05]	30.3 [8.88]	45.5 [13.33]	40.8 [11.96]	36.0 [10.55]	53.6 [15.71]	48.0 [14.07]	42.4 [12.43]	
	Power	5.6	5.4	5.3	5.6	5.5	5.3	5.5	5.3	5.2	
115 [46.1]	Total BTUH [kW]	61.1 [17.91]	58.5 [17.14]	55.8 [16.35]	55.3 [16.21]	52.9 [15.50]	50.5 [14.80]	53.3 [15.62]	51.0 [14.95]	48.7 [14.27]	
	Sens BTUH [kW]	37.4 [10.96]	33.5 [9.82]	29.6 [8.67]	44.6 [13.07]	40.0 [11.72]	35.3 [10.35]	52.7 [15.44]	47.2 [13.83]	41.7 [12.22]	
	Power	5.8	5.7	5.6	5.8	5.7	5.6	5.7	5.7	5.5	

DR —Depression ratio
dbE—Entering air dry bulb
wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power—KW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE—TZCAC-3 SERIES

DIRECT-DRIVE 208 AIRFLOW PERFORMANCE

Unit Model	Motor Speed From Factory		Heating Input BTU/hr [kW]	Manufacturer Recommended Air-Flow Range (Min/Max) CFM	Blower Size/ Motor HP [w] # of Speeds	Motor Speed	CFM [L/s] Air Delivery/RPM/Watts—208 Volts									
	Cool	Heat					External Static Pressure—Inches W.C. [kPa]									
							0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]		
336	Low	Low	[06] [10] [12] [15] [20]	1050/1350	10x10 1/2 HP [373] 3 Speed Motor	Low	CFM	1210 [571]	1193 [563]	1175 [555]	1155 [545]	1125 [531]	1075 [507]	1015 [479]	925 [437]	
							Watts	450	400	395	385	380	375	370	360	
							CFM	1515 [715]	1500 [708]	1475 [696]	1450 [684]	1405 [663]	1350 [637]	1275 [602]	1180 [557]	
	Med	Low	[06] [10] [12] [15] [20]	1225/1575	10x10 1/2 HP [373] 3 Speed Motor	Med	CFM	1515 [715]	1500 [708]	1475 [696]	1450 [684]	1405 [663]	1350 [637]	1275 [602]	1180 [557]	
							Watts	525	515	510	505	490	475	460	445	
							CFM	1680 [793]	1650 [779]	1625 [767]	1580 [746]	1530 [722]	1460 [689]	1390 [656]	1280 [604]	
High	Low	[06] [10] [12] [15] [20]	1400/1800	10x10 1/2 HP [373] 3 Speed Motor	High	CFM	1680 [793]	1650 [779]	1625 [767]	1580 [746]	1530 [722]	1460 [689]	1390 [656]	1280 [604]		
						Watts	650	640	630	610	580	560	545	515		
						CFM	1210 [571]	1193 [563]	1175 [555]	1155 [545]	1125 [531]	1075 [507]	1015 [479]	925 [437]		
342	Med	Med	[06] [10] [12] [15] [20]	1750/2250	10x10 1 HP [745] 3 Speed Motor (X-13)	Med	CFM	1210 [571]	1193 [563]	1175 [555]	1155 [545]	1125 [531]	1075 [507]	1015 [479]	925 [437]	
							Watts	450	400	395	385	380	375	370	360	
							CFM	1515 [715]	1500 [708]	1475 [696]	1450 [684]	1405 [663]	1350 [637]	1275 [602]	1180 [557]	
	Med	Med	[06] [10] [12] [15] [20]	1750/2250	10x10 1 HP [745] 3 Speed Motor (X-13)	High	CFM	1680 [793]	1650 [779]	1625 [767]	1580 [746]	1530 [722]	1460 [689]	1390 [656]	1280 [604]	
							Watts	650	640	630	610	580	560	545	515	
							CFM	1210 [571]	1193 [563]	1175 [555]	1155 [545]	1125 [531]	1075 [507]	1015 [479]	925 [437]	
348	Med	Med	[06] [10] [12] [15] [20]	1750/2250	10x10 1 HP [745] 3 Speed Motor (X-13)	Med	CFM	1515 [715]	1500 [708]	1475 [696]	1450 [684]	1405 [663]	1350 [637]	1275 [602]	1180 [557]	
							Watts	525	515	510	505	490	475	460	445	
							CFM	1680 [793]	1650 [779]	1625 [767]	1580 [746]	1530 [722]	1460 [689]	1390 [656]	1280 [604]	
	Med	Med	[06] [10] [12] [15] [20]	1750/2250	10x10 1 HP [745] 3 Speed Motor (X-13)	High	CFM	1210 [571]	1193 [563]	1175 [555]	1155 [545]	1125 [531]	1075 [507]	1015 [479]	925 [437]	
							Watts	450	400	395	385	380	375	370	360	
							CFM	1515 [715]	1500 [708]	1475 [696]	1450 [684]	1405 [663]	1350 [637]	1275 [602]	1180 [557]	
High	Med	[06] [10] [12] [15] [20]	1750/2250	10x10 1 HP [745] 3 Speed Motor (X-13)	High	CFM	1680 [793]	1650 [779]	1625 [767]	1580 [746]	1530 [722]	1460 [689]	1390 [656]	1280 [604]		
						Watts	650	640	630	610	580	560	545	515		
						CFM	1210 [571]	1193 [563]	1175 [555]	1155 [545]	1125 [531]	1075 [507]	1015 [479]	925 [437]		
360	Med	Med	[06] [10] [12] [15] [20]	1750/2250	10x10 1 HP [745] 3 Speed Motor (X-13)	Med	CFM	1575 [743]	1536 [725]	1496 [706]	1457 [688]	1417 [669]	1377 [650]	1338 [631]	1298 [613]	
							Watts	297	314	330	347	364	381	397	414	
							CFM	1985 [937]	1954 [922]	1919 [906]	1876 [885]	1824 [861]	1759 [830]	1679 [792]	1581 [746]	
	High	Med	[06] [10] [12] [15] [20]	1750/2250	10x10 1 HP [745] 3 Speed Motor (X-13)	High	CFM	2431 [1147]	2372 [1119]	2306 [1088]	2228 [1051]	2138 [1009]	2032 [959]	1907 [900]	1762 [832]	
							Watts	970	981	964	926	872	806	736	665	
							CFM	1575 [743]	1536 [725]	1496 [706]	1457 [688]	1417 [669]	1377 [650]	1338 [631]	1298 [613]	

[] Designates Metric Conversions

DIRECT-DRIVE 230 AIRFLOW PERFORMANCE

Unit Model	Motor Speed From Factory		Heating Input BTU/hr [KW]	Manufacturer Recommended Air-Flow Range (Min/Max) CFM	Blower Size/ Motor HP [w] # of Speeds	Motor Speed	CFM [L/s] Air Delivery/RPM/Watts—230 Volts									
	Cool	Heat					External Static Pressure—Inches W.C. [kPa]									
							0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]		
336			[06] [10] [12] [15] [20]	1050/1350	10x10 1/2 HP [373] 3 Speed Motor	Low	CFM	1400 [661]	1375 [649]	1360 [642]	1335 [630]	1305 [616]	1255 [592]	1210 [571]	1100 [519]	
		Watts				470	460	455	450	440	435	425	410			
	Low	CFM				1685 [795]	1620 [765]	1580 [746]	1550 [732]	1500 [708]	1430 [675]	1350 [637]	1230 [580]			
		Watts				635	600	580	570	550	535	505	475			
342			[06] [10] [12] [15] [20]	1225/1575	10x10 1/2 HP [373] 3 Speed Motor	Low	CFM	1400 [661]	1375 [649]	1360 [642]	1335 [630]	1305 [616]	1255 [592]	1210 [571]	1100 [519]	
		Watts				470	460	455	450	440	435	425	410			
	Med	CFM				1685 [795]	1620 [765]	1580 [746]	1550 [732]	1500 [708]	1430 [675]	1350 [637]	1230 [580]			
		Watts				635	600	580	570	550	535	505	475			
348			[06] [10] [12] [15] [20]	1400/1800	10x10 1/2 HP [373] 3 Speed Motor	Low	CFM	1400 [661]	1375 [649]	1360 [642]	1335 [630]	1305 [616]	1255 [592]	1210 [571]	1100 [519]	
		Watts				470	460	455	450	440	435	425	410			
	Med	CFM				1685 [795]	1620 [765]	1580 [746]	1550 [732]	1500 [708]	1430 [675]	1350 [637]	1230 [580]			
		Watts				635	600	580	570	550	535	505	475			
360			[06] [10] [12] [15] [20]	1750/2250	10x10 1 HP [745] 3 Speed Motor (X-13)	High	CFM	1870 [883]	1830 [864]	1790 [845]	1730 [816]	1660 [783]	1580 [746]	1500 [708]	1375 [649]	
		Watts				780	760	740	700	660	635	600	555			
	Med	CFM				1400 [661]	1375 [649]	1360 [642]	1335 [630]	1305 [616]	1255 [592]	1210 [571]	1100 [519]			
		Watts				470	460	455	450	440	435	425	410			
360			[06] [10] [12] [15] [20]	1750/2250	10x10 1 HP [745] 3 Speed Motor (X-13)	Low	CFM	1575 [743]	1536 [725]	1496 [706]	1457 [688]	1417 [669]	1377 [650]	1338 [631]	1298 [613]	
		Watts				297	314	330	347	364	381	397	414			
	Med	CFM				1985 [937]	1954 [922]	1919 [906]	1876 [885]	1824 [861]	1759 [830]	1679 [792]	1581 [746]			
		Watts				535	553	574	593	606	609	599	572			
360			[06] [10] [12] [15] [20]	1750/2250	10x10 1 HP [745] 3 Speed Motor (X-13)	High	CFM	2431 [1147]	2372 [1119]	2306 [1088]	2228 [1051]	2138 [1009]	2032 [959]	1907 [900]	1762 [832]	
		Watts				970	981	964	926	872	806	736	665			

[] Designates Metric Conversions

AIRFLOW PERFORMANCE—TZCAC-3 SERIES

DIRECT-DRIVE 460 AIRFLOW PERFORMANCE

Unit Model	Motor Speed From Factory		Heating Input BTU/hr [kW]	Manufacturer Recommended Air-Flow Range (Min/Max) CFM	Blower Size/ Motor HP [w] # of Speeds	Motor Speed	CFM [L/s] Air Delivery/RPM/Watts—460 Volts									
	Cool	Heat					External Static Pressure—Inches W.C. [kPa]									
							0.1 [1.02]	0.2 [1.05]	0.3 [1.07]	0.4 [1.10]	0.5 [1.12]	0.6 [1.15]	0.7 [1.17]	0.8 [1.20]		
336	Low	Low	[06] [10] [12] [15] [20]	1050/1350	10x10 1/2 HP [373] 3 Speed Motor	Low	CFM	1400 [661]	1375 [649]	1360 [642]	1335 [630]	1305 [616]	1255 [592]	1210 [571]	1100 [519]	
							Watts	470	460	455	450	440	435	425	410	
							CFM	1685 [795]	1620 [765]	1580 [746]	1550 [732]	1500 [708]	1430 [675]	1350 [637]	1230 [580]	
	Med	Low	High	1050/1350	10x10 1/2 HP [373] 3 Speed Motor	Med	CFM	1870 [883]	1830 [864]	1790 [845]	1730 [816]	1660 [783]	1580 [746]	1500 [708]	1375 [649]	
							Watts	780	760	740	700	660	635	600	555	
							CFM	1400 [661]	1375 [649]	1360 [642]	1335 [630]	1305 [616]	1255 [592]	1210 [571]	1100 [519]	
342	Med	Med	[06] [10] [12] [15] [20]	1225/1575	10x10 1/2 HP [373] 3 Speed Motor	Med	CFM	1685 [795]	1620 [765]	1580 [746]	1550 [732]	1500 [708]	1430 [675]	1350 [637]	1230 [580]	
							Watts	635	600	580	570	550	535	505	475	
							CFM	1870 [883]	1830 [864]	1790 [845]	1730 [816]	1660 [783]	1580 [746]	1500 [708]	1375 [649]	
	High	Med	High	1225/1575	10x10 1/2 HP [373] 3 Speed Motor	High	CFM	780	760	740	700	660	635	600	555	
							Watts	470	460	455	450	440	435	425	410	
							CFM	1400 [661]	1375 [649]	1360 [642]	1335 [630]	1305 [616]	1255 [592]	1210 [571]	1100 [519]	
360	Med	Med	[06] [10] [12] [15] [20]	1400/1800	10x10 1/2 HP [373] 3 Speed Motor	Med	CFM	1685 [795]	1620 [765]	1580 [746]	1550 [732]	1500 [708]	1430 [675]	1350 [637]	1230 [580]	
							Watts	635	600	580	570	550	535	505	475	
							CFM	1870 [883]	1830 [864]	1790 [845]	1730 [816]	1660 [783]	1580 [746]	1500 [708]	1375 [649]	
	High	Med	High	1400/1800	10x10 1/2 HP [373] 3 Speed Motor	High	CFM	780	760	740	700	660	635	600	555	
							Watts	470	460	455	450	440	435	425	410	
							CFM	1400 [661]	1375 [649]	1360 [642]	1335 [630]	1305 [616]	1255 [592]	1210 [571]	1100 [519]	

[] Designates Metric Conversions

ELECTRICAL DATA—TZCAC-3 SERIES

ELECTRICAL DATA – TZCAC-3 SERIES													
		336CLDA	336DLDA	336JLDA	342CLDA	342DLDA	342JLDA	348CLDA	348DLDA	348JLDA	360CLDA	360DLDA	360JLDA
Unit Information	Unit Operating Voltage Range	187-253	414-506	187-253	187-253	414-506	187-253	187-253	414-506	187-253	187-253	414-506	187-253
	Minimum Circuit Ampacity	19/19	11	27/27	23/23	11	28/28	23/23	11	33/33	30/30	13	43/43
	Minimum Overcurrent Protection Device Size	25/25	15	35/35	30/30	15	35/35	30/30	15	40/40	35/35	15	50/50
	Maximum Overcurrent Protection Device Size	25/25	15	40/40	35/35	15	45/45	35/35	15	50/50	40/40	20	60/60
Compressor Motor	No.	1	1	1	1	1	1	1	1	1	1	1	1
	Volts	208/230	460	208/230	208/230	460	208/230	208/230	460	208/230	208/230	460	208/230
	Phase	3	3	1	3	3	1	3	3	1	3	3	1
	HP	3	3	3	3 1/2	3 1/2	3 1/2	4	4	4	5	5	5
	RPM	3450	3450	3450	3450	3450	3450	3450	3450	3450	3450	3450	3450
	Amps (RLA)	10.4/10.4	5.8	16.7/16.7	13.5/13.5	6	17.9/17.9	13.7/13.7	6.2	21.8/21.8	15.6/15.6	7.8	26.3/26.3
	Amps (LRA)	88/88	38	79/79	88/88	44	112/112	83.1/83.1	41	117/117	110/110	52	134/134
Condenser Motor	No.	1	1	1	1	1	1	1	1	1	1	1	1
	Volts	208/230	460	208/230	208/230	460	208/230	208/230	460	208/230	208/230	460	208/230
	Phase	1	1	1	1	1	1	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA)	1.5	1	1.5	1.5	1	1.5	1.5	1	1.5	2.2	1	2.2
	Amps (LRA)	3	1.9	3	3	1.9	3	3	1.9	3	4.9	1.9	4.9
Evaporator Fan	No.	1	1	1	1	1	1	1	1	1	1	1	1
	Volts	208/230	460	208/230	208/230	460	208/230	208/230	460	208/230	208/230	460	208/230
	Phase	1	1	1	1	1	1	1	1	1	1	3	1
	HP	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1	3/4	1
	Amps (FLA)	4	2	4	4	2	4	4	2	4	7.6	1.6	7.6
	Amps (LRA)	6.7	3.6	6.7	6.7	3.6	6.7	6.7	3.6	6.7	0	8.4	0

1. Horsepower Per Compressor.

2. Amp Draw Per Motor. Multiply Value By Number of Motors to Determine Total Amps.

UNITS WITH HEATER KITS—TZCAC-3 SERIES

208-240 VOLT, THREE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION												
Separate Power Supply For Both Unit and Heater Kit												
Model No. TZCAC-3	RXJJ-Heater Kit Nominal kW	Rated Heater kW @ 208/240 V	Heater KBTU/Hr @ 208/240 V	Heater Amp. @ 208/240 V	Unit Min. Ckt. Ampacity @ 208/240 V	Over Current Protective Device Size		Heater Kit Min. Ckt. Ampacity 208/240 V	Heater Kit Max. Fuse Size 208/240 V	Air Cond. Min. Ckt. Ampacity 208/240 V	Air Cond. Over Current Protective Device Size	
						Min./Max. @ 208 V	Min./Max. @ 240 V				Min./Max. @ 208 V	Min./Max. @ 240 V
336CLDA	No Heat	—	—	—	19/19	25/25	25/25	—	—	19/19	25/25	25/25
	A06C+	4.2/5.6	14.33/19.10	11.7/13.5	20/22	25/25	25/25	15/17	15/20	—	—	—
	A10C+	7.2/9.6	24.56/32.75	20.0/23.1	30/34	30/30	35/35	25/29	25/30	—	—	—
	*A11C+	7.2/9.6	24.56/32.75	20.0/23.1	30/34	30/30	35/35	25/29	25/30	—	—	—
	A12C+	8.4/11.2	28.66/38.21	23.4/27.0	35/39	35/35	40/40	30/34	30/35	—	—	—
	A15C+	10.8/14.4	36.84/49.13	30.1/34.7	43/49	45/45	50/50	38/44	40/45	—	—	—
342CLDA	A20C+	14.4/19.2	49.13/65.50	40.1/46.2	56/63	60/60	70/70	51/58	60/60	—	—	—
	*A21C+	14.4/19.2	49.13/65.50	40.1/46.2	56/63	60/60	70/70	51/58	60/60	—	—	—
	No Heat	—	—	—	23/23	30/35	30/35	—	—	23/23	30/35	30/35
	A06C+	4.2/5.6	14.33/19.10	11.7/13.5	23/23	30/35	30/35	15/17	15/20	—	—	—
	A10C+	7.2/9.6	24.56/32.75	20.0/23.1	30/34	30/35	35/35	25/29	25/30	—	—	—
	*A11C+	7.2/9.6	24.56/32.75	20.0/23.1	30/34	30/35	35/35	25/29	25/30	—	—	—
348CLDA	A12C+	8.4/11.2	28.66/38.21	23.4/27.0	35/39	35/35	40/40	30/34	30/35	—	—	—
	A15C+	10.8/14.4	36.84/49.13	30.1/34.7	43/49	45/45	50/50	38/44	40/45	—	—	—
	A20C+	14.4/19.2	49.13/65.50	40.1/46.2	56/63	60/60	70/70	51/58	60/60	—	—	—
	*A21C+	14.4/19.2	49.13/65.50	40.1/46.2	56/63	60/60	70/70	51/58	60/60	—	—	—
	No Heat	—	—	—	23/23	30/35	30/35	—	—	23/23	30/35	30/35
	A06C+	4.2/5.6	14.33/19.10	11.7/13.5	23/23	30/35	30/35	15/17	15/20	—	—	—
360CLDA	A10C+	7.2/9.6	24.56/32.75	20.0/23.1	30/34	30/35	35/35	25/29	25/30	—	—	—
	*A11C+	7.2/9.6	24.56/32.75	20.0/23.1	30/34	30/35	35/35	25/29	25/30	—	—	—
	A12C+	8.4/11.2	28.66/38.21	23.4/27.0	39/44	40/40	45/45	30/34	30/35	—	—	—
	A15C+	10.8/14.4	36.84/49.13	30.1/34.7	48/53	50/50	60/60	38/44	40/45	—	—	—
	A20C+	14.4/19.2	49.13/65.50	40.1/46.2	60/68	60/60	70/70	51/58	60/60	—	—	—
	*A21C+	14.4/19.2	49.13/65.50	40.1/46.2	60/68	60/60	70/70	51/58	60/60	—	—	—

*= For Canadian use only. Uses "pr" fuses for inductive circuit.

+ = Field installed only.

460 VOLT, THREE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION												
Model No. TZCAC-3	RXJJ-Heater Kit Nominal kW	Rated Heater kW @ 460 V	Heater KBTU/Hr @ 460 V	Heater Amp. @ 460 V	Unit Min. Ckt. Ampacity @ 460 V	Over Current Protective Device Size @ 460 V		Separate Power Supply For Both Unit and Heater Kit				
						Min./Max. @ 460 V	Min./Max. @ 460 V	Heater Kit Min. Ckt. Ampacity 460 V	Heater Kit Max. Fuse Size 460 V	Air Cond. Min. Ckt. Ampacity @ 460 V	Air Cond. Over Current Protective Device Size @ 460 V	
											Min./Max. @ 460 V	Min./Max. @ 460 V
336DL	No Heat	—	—	—	11	15/15	—	—	—	—	15/15	—
	A06D+	5.6	19.10	6.7	11	15/15	—	—	9	15	—	—
	A10D+	9.6	32.75	11.6	17	20/20	—	—	15	15	—	—
	*A11D+	9.6	32.75	11.6	17	20/20	—	—	15	15	—	—
	A12D+	11.2	38.21	13.5	20	20/20	—	—	17	20	—	—
	A15D+	14.4	49.13	17.3	25	25/25	—	—	22	25	—	—
	*A21D+	19.2	65.50	23.1	32	35/35	—	—	29	30	—	—
342DL	No Heat	—	—	—	11	15/15	—	—	—	—	15/15	—
	A06D+	5.6	19.10	6.7	11	15/15	—	—	9	15	—	—
	A10D+	9.6	32.75	11.6	17	20/20	—	—	15	15	—	—
	*A11D+	9.6	32.75	11.6	17	20/20	—	—	15	15	—	—
	A12D+	11.2	38.21	13.5	20	20/20	—	—	17	20	—	—
	A15D+	14.4	49.13	17.3	25	25/25	—	—	22	25	—	—
	*A21D+	19.2	65.50	23.1	32	35/35	—	—	29	30	—	—
348DL	No Heat	—	—	—	11	15/15	—	—	—	—	15/15	—
	A06D+	5.6	19.10	6.7	11	15/15	—	—	9	15	—	—
	A10D+	9.6	32.75	11.6	17	20/20	—	—	15	15	—	—
	*A11D+	9.6	32.75	11.6	17	20/20	—	—	15	15	—	—
	A12D+	11.2	38.21	13.5	20	20/20	—	—	17	20	—	—
	A15D+	14.4	49.13	17.3	25	25/25	—	—	22	25	—	—
	*A21D+	19.2	65.50	23.1	32	35/35	—	—	29	30	—	—

*= For Canadian use only. Uses "IP" fuses for inductive circuit.
+ = Field installed only.

UNITS WITH HEATER KITS—TZCAC-3 SERIES

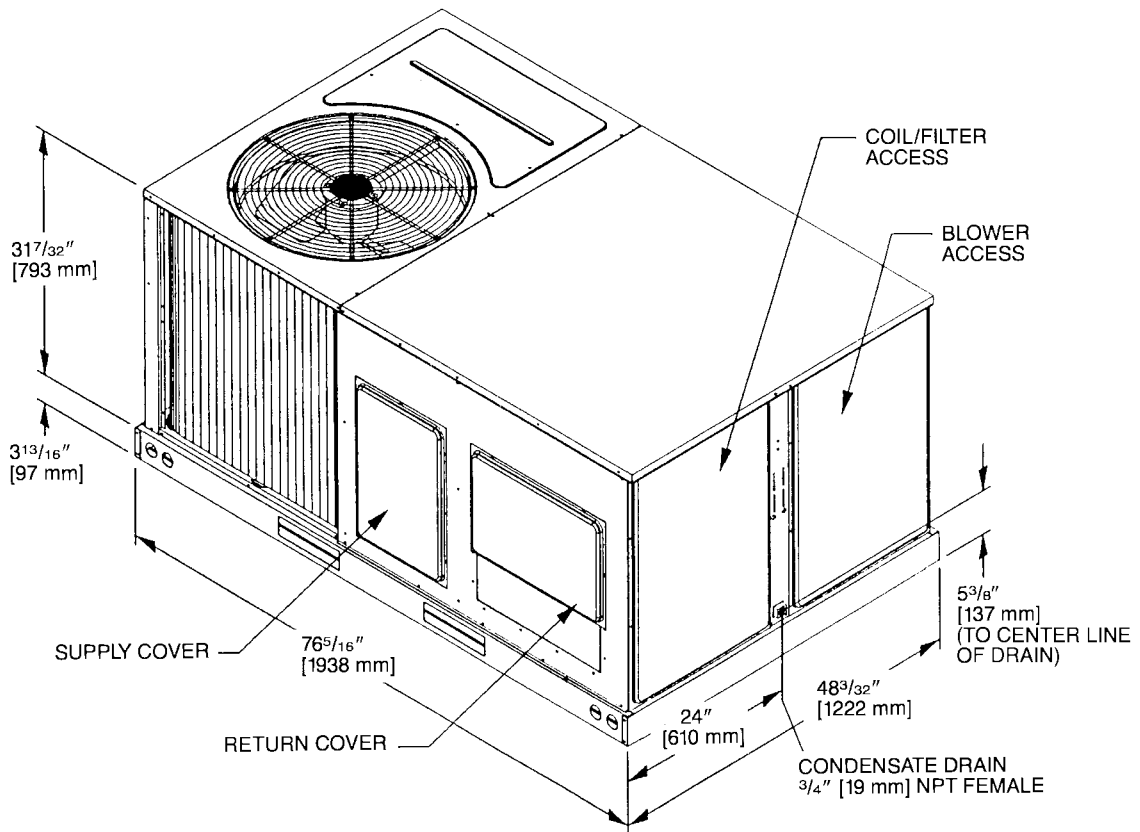
208-240 VOLT, SINGLE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION												
Separate Power Supply For Both Unit and Heater Kit												
Model No. TZCAC-3	RXJ- Heater Kit Nominal kW	Rated Heater kW @ 208/240 V	Heater KBTU/Hr @ 208/240 V	Heater Amp. @ 208/240 V	Unit Min. Ckt. Ampacity @ 208/240 V	Over Current Protective Device Size @ 240 V		Heater Kit Min. Ckt. Ampacity 208/240 V	Heater Kit Max. Fuse Size 208/240 V	Air Cond. Min. Ckt. Ampacity @ 208/240 V	Air Cond. Over Current Protective Device Size @ 240 V	
						Min./Max. @ 208 V	Min./Max. @ 240 V				Min./Max. @ 208 V	Min./Max. @ 240 V
336JLDA	No Heat	—	—	—	27/27	35/40	35/40	—	—	27/27	35/40	35/40
	A06J+	4.2/5.6	14.33/19.10	20.2/23.3	31/35	35/40	35/40	26/30	30/30	—	—	—
	A10J+	7.2/9.6	24.56/32.75	34.7/40.0	49/55	50/50	60/60	44/50	45/50	—	—	—
	*A11J+	7.2/9.6	24.56/32.75	34.7/40.0	49/55	50/50	60/60	44/50	45/50	—	—	—
	A12J+	8.4/11.2	28.66/38.21	40.4/46.7	56/64	60/60	70/70	51/59	60/60	—	—	—
	A15J+	10.8/14.4	36.84/49.13	52.0/60.0	70/80	80/80	110/110	65/75	70/80	—	—	—
342JLDA	A20J+	14.4/19.2	49.13/65.50	69.3/80.0	92/105	100/100	110/110	87/100	90/100	—	—	—
	*A21J+	14.4/19.2	49.13/65.50	69.3/80.0	92/105	100/100	110/110	87/100	90/100	—	—	—
	No Heat	—	—	—	28/28	35/45	35/45	—	—	28/28	35/45	35/45
	A06J+	4.2/5.6	14.33/19.10	20.2/23.3	31/35	35/45	35/45	26/30	30/30	—	—	—
	A10J	7.2/9.6	24.56/32.75	34.7/40.0	49/55	50/50	60/60	44/50	45/50	—	—	—
	*A11J+	7.2/9.6	24.56/32.75	34.7/40.0	49/55	50/50	60/60	44/50	45/50	—	—	—
348JLDA	A12J+	8.4/11.2	28.66/38.21	40.4/46.7	56/64	60/60	70/70	51/59	60/60	—	—	—
	A15J	10.8/14.4	36.84/49.13	52.0/60.0	70/80	80/80	110/110	65/75	70/80	—	—	—
	A20J+	14.4/19.2	49.13/65.50	69.3/80.0	92/105	100/100	110/110	87/100	90/100	—	—	—
	*A21J+	14.4/19.2	49.13/65.50	69.3/80.0	92/105	100/100	110/110	87/100	90/100	—	—	—
	No Heat	—	—	—	33/33	40/50	40/50	—	—	33/33	40/50	40/50
	A06J+	4.2/5.6	14.33/19.10	20.2/23.3	33/35	40/50	40/50	26/30	30/30	—	—	—
360JLDA	A10J+	7.2/9.6	24.56/32.75	34.7/40.0	49/55	50/50	60/60	44/50	45/50	—	—	—
	*A11J+	7.2/9.6	24.56/32.75	34.7/40.0	49/55	50/50	60/60	44/50	45/50	—	—	—
	A12J+	8.4/11.2	28.66/38.21	40.4/46.7	60/68	60/60	70/70	51/59	60/60	—	—	—
	A15J	10.8/14.4	36.84/49.13	52.0/60.0	75/85	80/80	90/90	65/75	70/80	—	—	—
	A20J	14.4/19.2	49.13/65.50	69.3/80.0	97/110	100/100	110/110	87/100	90/100	—	—	—
	*A21J+	14.4/19.2	49.13/65.50	69.3/80.0	97/110	100/100	110/110	87/100	90/100	—	—	—

*= For Canadian use only. Uses "P" fuses for inductive circuit.
 + = Field installed only.

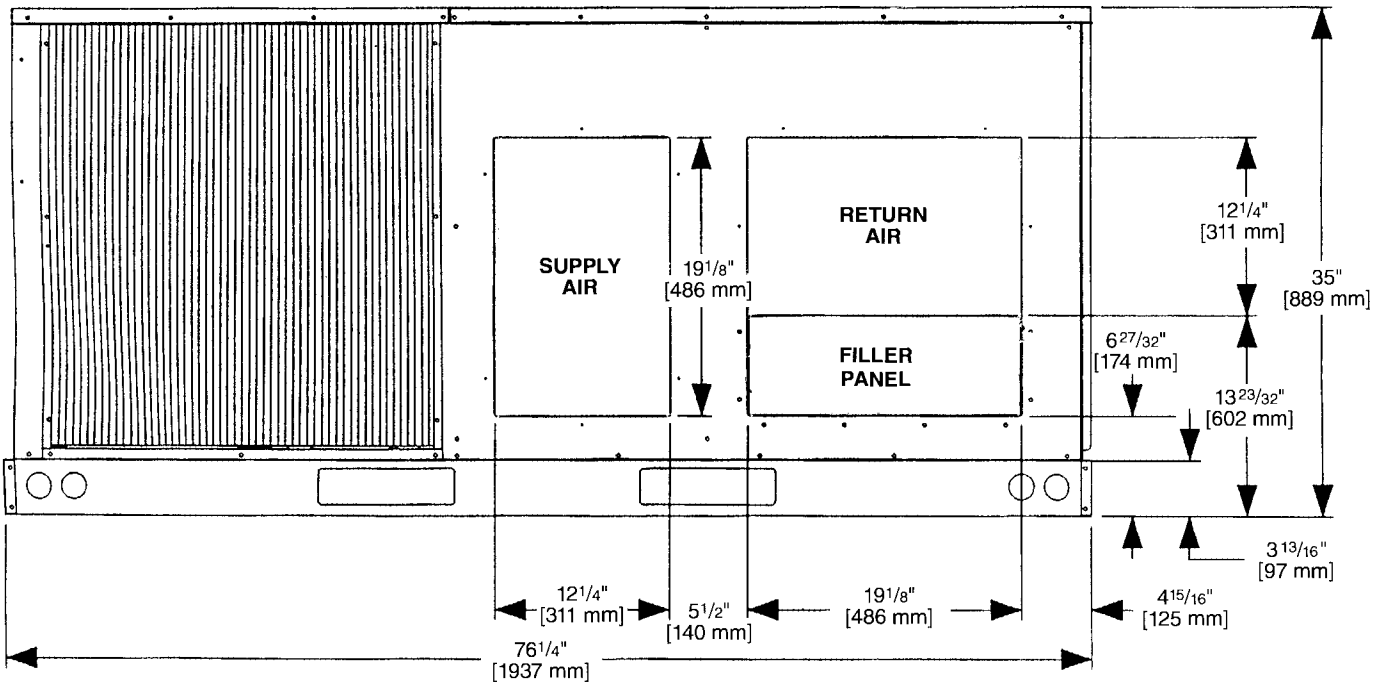
UNIT DIMENSIONS—TZCAC-3 SERIES

UNIT DIMENSIONS PACKAGE AIR CONDITIONERS

3 TO 5 TON [10.6 TO 17.6 kW] MODELS



SUPPLY AND RETURN DIMENSIONS

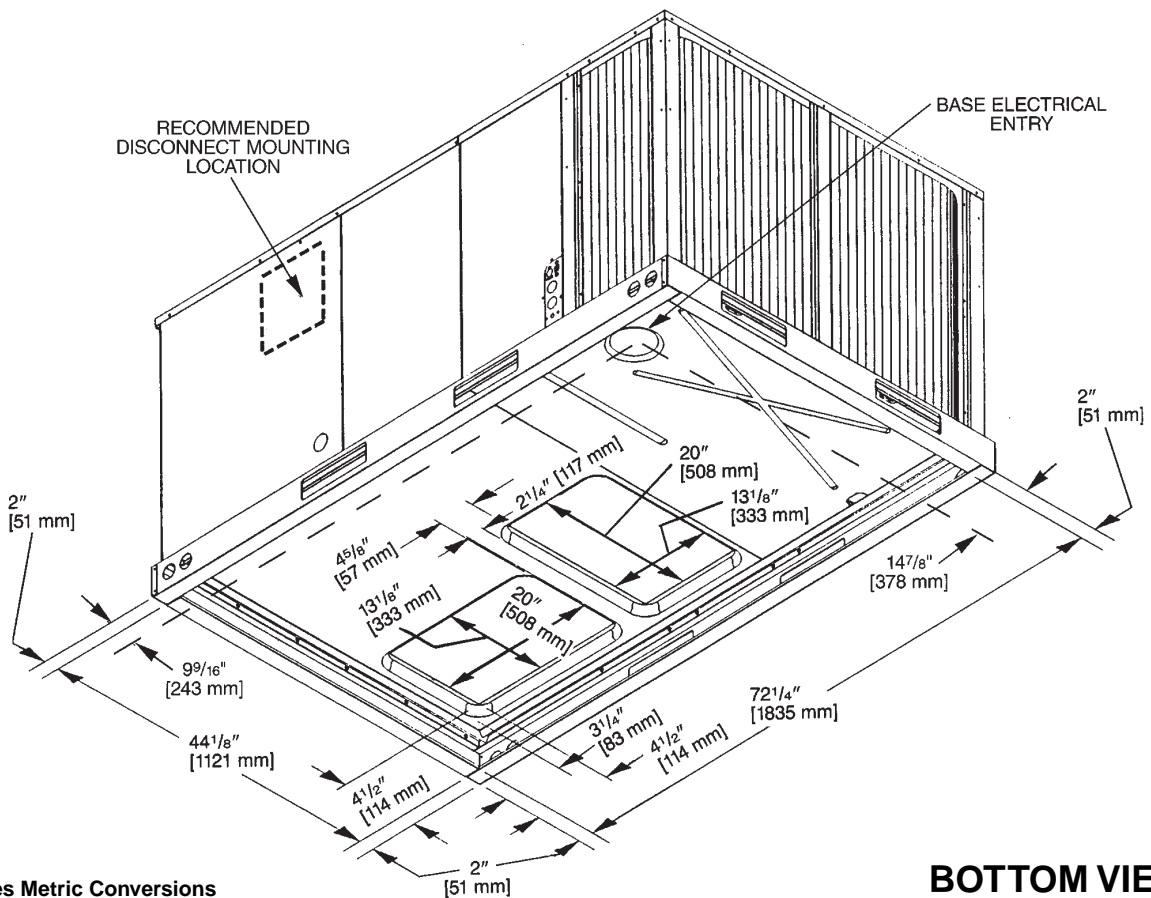
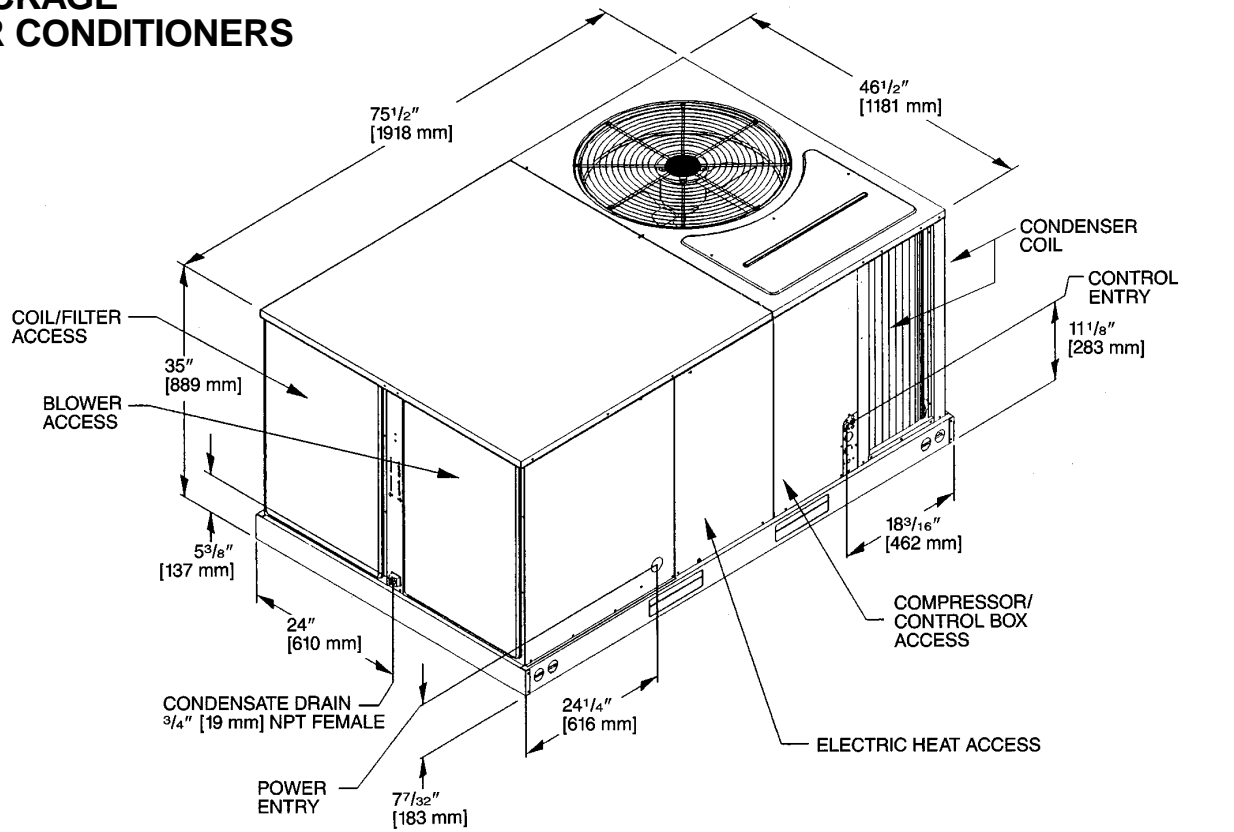


[] Designates Metric Conversions

UNIT DIMENSIONS—TZCAC-3 SERIES

UNIT DIMENSIONS PACKAGE AIR CONDITIONERS

3 TO 5 TON [10.6 TO 17.6 kW] MODELS



BOTTOM VIEW

[] Designates Metric Conversions

UNIT DIMENSIONS—TZCAC-3 SERIES

WEIGHTS

Accessory	3-5 Ton [10.6-17.6 kW]	
	Shipping	Operating
	lbs [kg]	lbs [kg]
Economizer with Single Enthalpy	70 [32]	60 [27]
Power Exhaust	70 [32]	67 [30]
Fresh Air Damper (Manual)	11 [5]	9 [4]
Fresh Air Damper (Motorized)	13 [6]	11 [5]
Roof Curb 14"	92 [42]	88 [40]
Roof Curb 24"	108 [49]	104 [47]
Concentric Diffuser 18" Flush	37 [17]	26 [12]
Concentric Diffuser 20" Flush	54 [24]	42 [19]
Side Discharge Concentric Diffuser RXRN-FA60	35 [16]	20 [9]
Side Discharge Concentric Diffuser RXRN-FA65	55 [25]	40 [18]

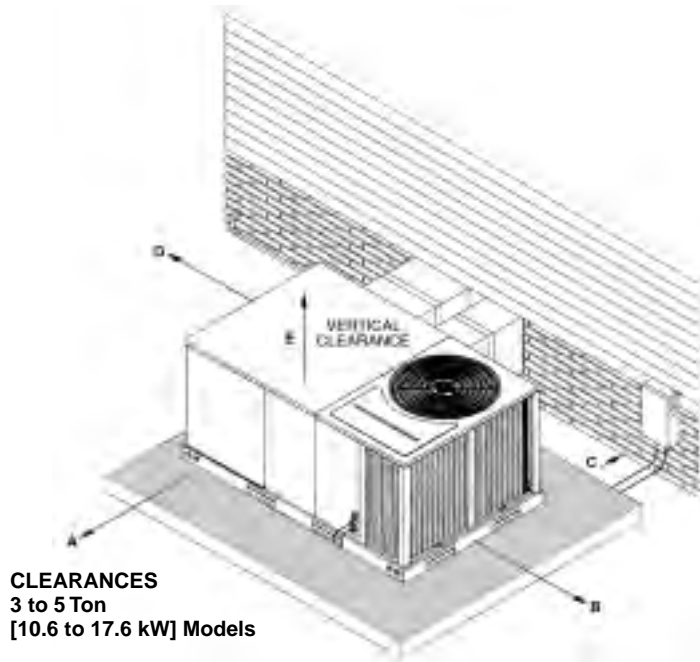
CLEARANCES

(3 to 5 Ton [10.6 to 17.6 kW] Models)

The following minimum clearances are recommended for proper unit performance and serviceability.

Recommended Clearance in. [mm]	Location
48 [1219]	A - Front
18 [457]	B - Condenser Coil
*12 [305]	C - Duct Side
36 [914]	D - Evaporator End
60 [1524]	E - Above
*57" [1448 mm]	With Economizer

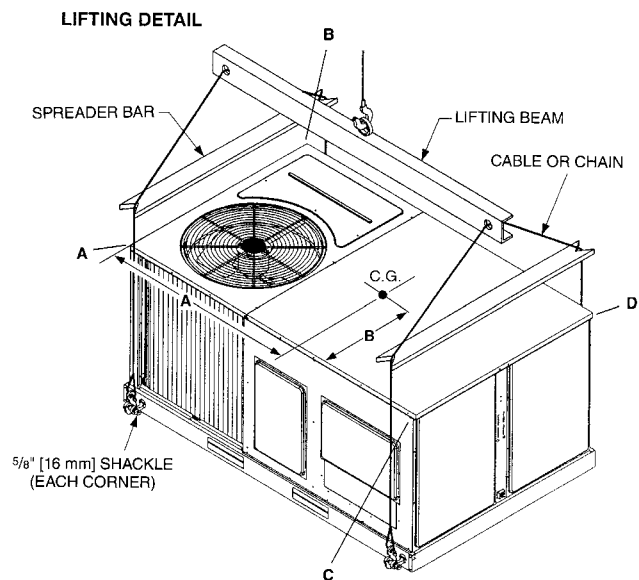
NOTE: Supply duct may be installed with "0" inch clearance to combustible materials, provided 1" [25.4 mm] minimum. Fiberglass insulation is applied either inside or on the outside of the duct.



CENTER OF GRAVITY (C.G.)

Capacity Tons [kW]	A in. [mm]	B in. [mm]
3-5 [10.6-17.6]	38 1/4 [972]	25 3/4 [654]

Capacity Tons [kW]	Corner Weights by Percentage			
	A	B	C	D
3-5 [10.6-17.6]	22%	27%	23%	28%



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ACCESSORIES

ACCESSORY EQUIPMENT

Accessory Description	Model Application 3 to 5 Ton [10.6 to 17.6 kW]	Accessory Model No. 3 to 5 Ton [10.6 to 17.6 kW]	Factory Installed 3 to 5 Ton [10.6 to 17.6 kW]
Electric Heater Kits	TZCAC-3	RXJJ-A06 (J,C,D) RXJJ-A10 (J,C,D) RXJJ-A11 (J,C,D) RXJJ-A12 (J,C,D) RXJJ-A15 (J,C,D) RXJJ-A20 (J,C,D) RXJJ-A21 (J,C,D) RXJJ-A24 (J,C,D)	See Heater Kit Electric Table
Roofcurb 14"	TZCAC-3	RXKG-CAD14	No
Roofcurb 24"	TZCAC-3	RXKG-CAD24	No
Roofcurb Adapters	TZCAC-3	RXRX-BBCDB21 RXRX-BBCDB22 RXRX-BBCDB23	No
Economizer with Single Enthalpy ①	TZCAC-3	TXRD-MECM3	Yes
Dual Enthalpy Kit	TZCAC-3	RXRX-AV02	No
CO ₂ Sensor	TZCAC-3	RXRX-AR02	No
Power Exhaust	TZCAC-3	TXRX-BGF04 (C, D & Y)	No
Fresh Air Damper Manual	TZCAC-3	TXRF-FBA1	No
Fresh Air Damper Motorized	TZCAC-3	TXRF-FBB1	No
Rectangular to Round 18" Duct Adapters for Concentric Diffuser	TZCAC-3	RXMC-CB03	No
Rectangular to Round 20" Duct Adapters for Concentric Diffuser	TZCAC-3	RXMC-CB04	No
Concentric Diffuser 18" Step	TZCAC-3	RXRN-FA60, RXRN-FA65	No
Concentric Diffuser 18" Flush	TZCAC-3	RXRN-FA70, RXRN-FA75	No
Rectangular to Round 16" Side	TZCAC-3	RXMC-BB01	No
Louver Kit (3 Sides)	All TZCAC-3 Models	RXRX-AAD01B	Yes
Time Delay	TZCAC-3	RXMD-B01	Yes
Low Ambient Control to 0°F [-18°C]	TZCAC-3	RXRZ-B01	Yes

*Voltage

J = 208-230 VAC-1PH-60HZ D = 460 VAC-3PH-60HZ
C = 208-230 VAC-3PH-60HZ

NOTES: ① Economizer is designed for downflow or horizontal applications.

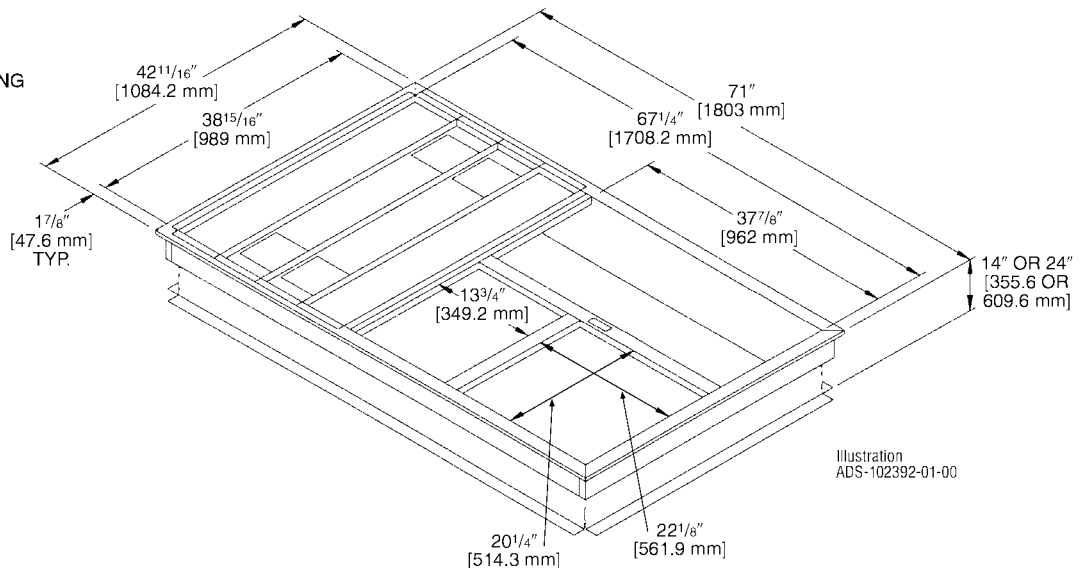
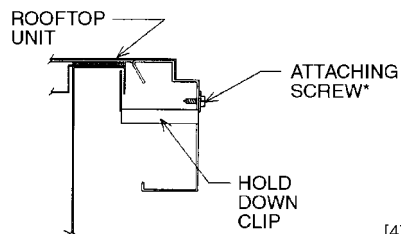
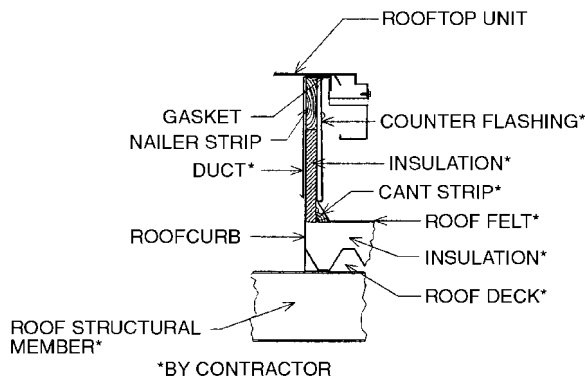
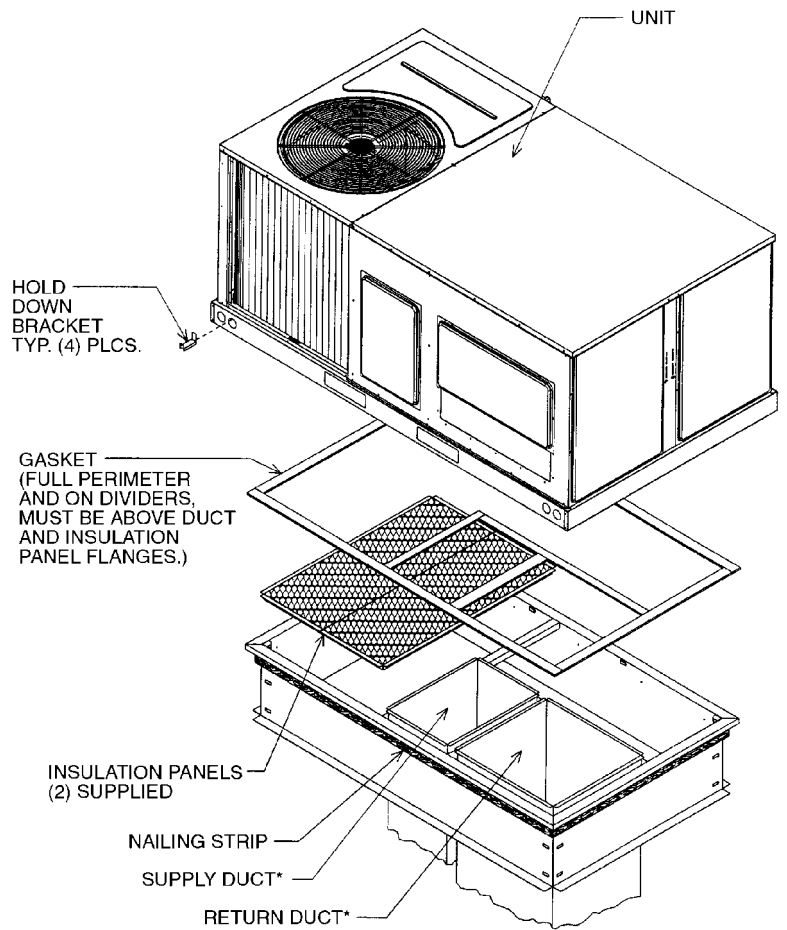
[] Designates Metric Conversions

ROOFCURBS (Full Perimeter)

- Thermal Zone's new roofcurb design can be utilized on 3 through 5 ton [10.6-17.6 kW] models.
- Two available heights (14" [356 mm] and 24" [610 mm]) for ALL models.
- Quick assembly corners for simple and fast assembly.
- Opening provided in bottom pan to match the "Thru the Curb" electrical connection opening provided on the unit base pan.
- 2" [51 mm] x 4" [102 mm] Nailer provided.
- Insulating panels provided.
- Sealing gasket (28" [711 mm]) provided with Roofcurb.
- Packaged for easy field assembly.

Roofcurb Model	Height of Curb
RXKG-CAD14	14" [356 mm]
RXKG-CAD24	24" [610 mm]

TYPICAL INSTALLATION



[] Designates Metric Conversions

Illustration
ADS-102392-01-00

ACCESSORIES

ROOFCURB ADAPTERS

Old Models

MEDIUM CABINET (3 TON [11 kW])

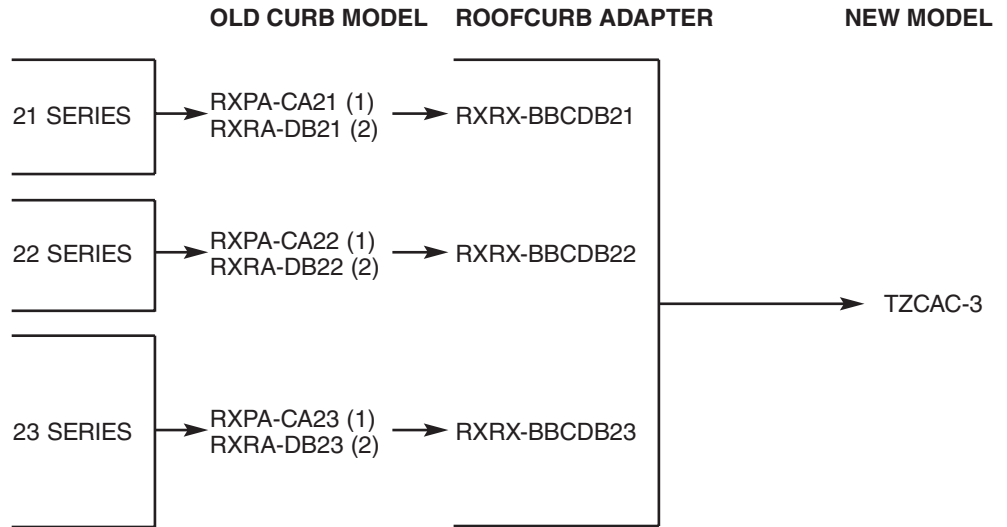
(-)SNC, (-)SND, (-)SNE
 (-)RGE, (-)RGF, (-)RGG
 (-)PNC, (-)PND

LARGE CABINET

(3-3.5 TON [11-12 kW])
 (-)RGE, (-)RGF, (-)RGG,
 (-)RGH (3 TON [11 kW])

EXTRA LARGE CABINET

(3.5-5 TON [12-18 kW])
 (-)SNC, (-)SND, (-)SNE
 (-)RGE, (-)RGF,
 (-)RGG (4-5 TON [14-18 kW])
 (-)PNC, (-)PND, (-)RGH
 (3.5, 4 TON [12-14 kW])

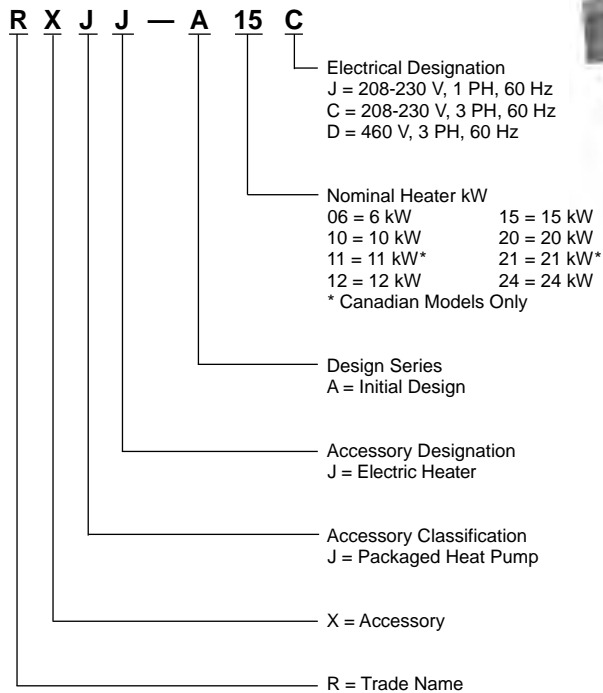


Field Installed Resistance Heater Kits

Electric Heater Kits are designed for field installation using either single-point power wiring or dual circuit wiring. Low voltage plugs are provided to allow for quick connection to the unit. Removing a block-off panel on the unit allows the heater elements to be inserted into the supply air down stream from the indoor coil and supply air blower.

[] Designates Metric Conversions

Model Number Identifier:



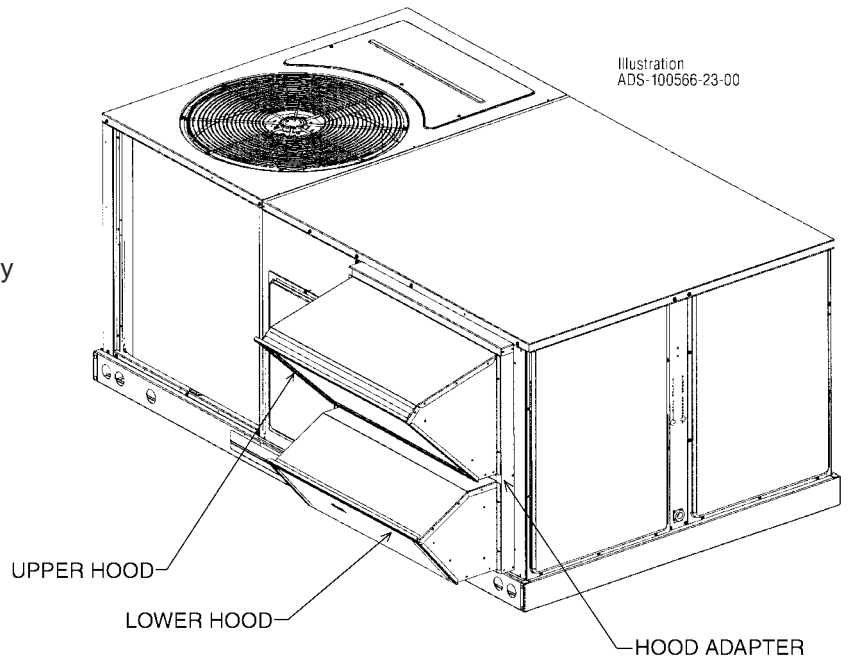
ECONOMIZERS

TXRD-MECM3—TZCAC-3 3-5 Ton [10.6-17.6 kW] Models

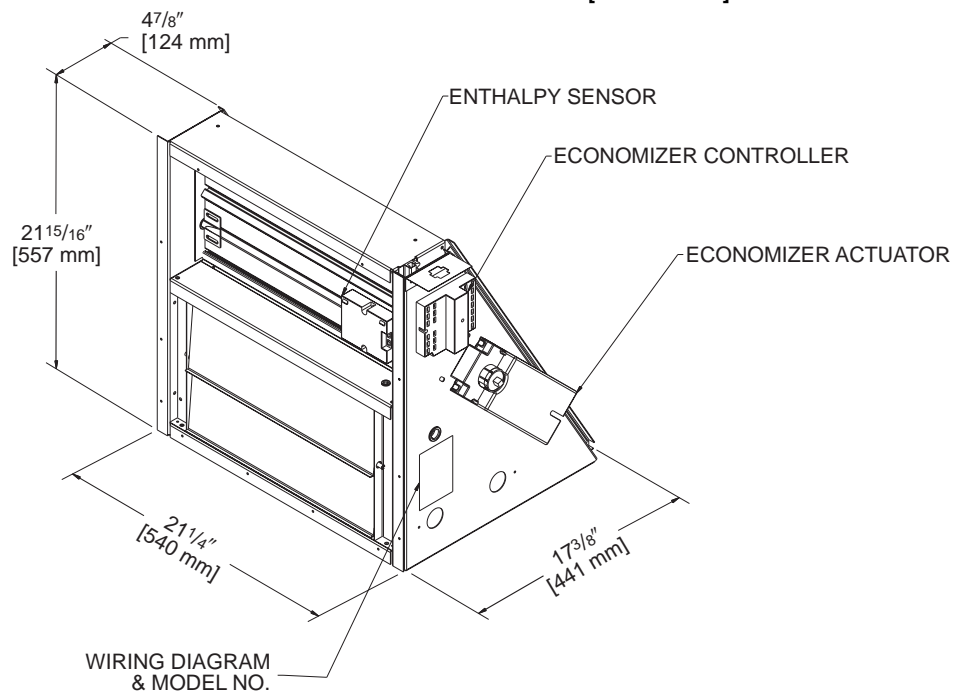
**RXXR-AV02—Dual Enthalpy Kit
3-5 Ton [10.6-17.6 kW] Models**

RXXR-AR02—3-5 Ton [10.6-17.6 kW] Models Optional CO₂ Sensor

- Features **Honeywell** Controls
- Available factory installed or field accessory
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Horizontal or Downflow Applications
- Slip-In Design for Easy Installations
- Plug-In Polarized 9-pin Electrical Connections
- Pre-configured—No Field Adjustments Necessary
- Standard Barometric Relief Damper Provided
- Single Enthalpy with Dual Enthalpy Upgrade Kit
- CO₂ Input Sensor Available (Field Installed)
- Economizer slips in complete for Downflow or Horizontal Duct application
- Field Assembled Hood Ships with Economizer
- Optional Remote Minimum Position (Honeywell #S963B1128) is Available from ProStock
- Field Installed Power Exhaust Available



3-5 Ton [10.6-17.6 kW] Models



[] Designates Metric Conversions

ACCESSORIES

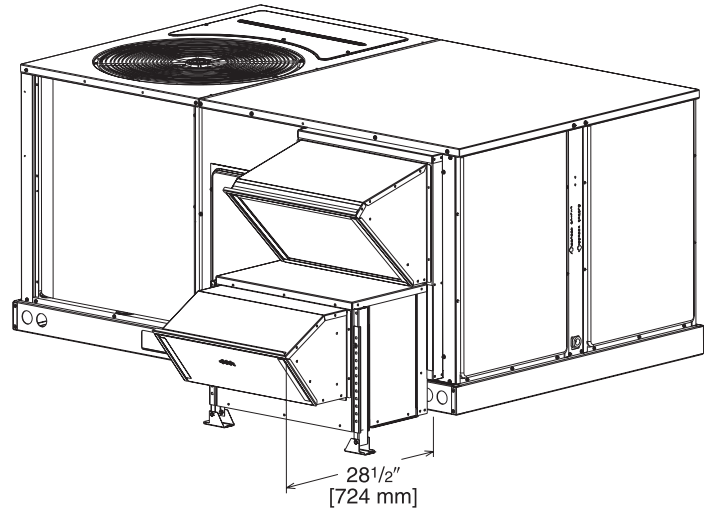
INTEGRAL POWER EXHAUST FOR ECONOMIZER (FIELD INSTALLED ONLY)

TXRX-BGF04C – TZCAC-3 3-5 Ton [10.6-17.6 kW] Models
208-230V, 1 PH and 3 PH, 60 Hz

TXRX-BGF04D – TZCAC-3 3-5 Ton [10.6-17.6 kW] Models
460V, 3 PH, 60 Hz

TXRX-BGF04Y – TZCAC-3 3-5 Ton [10.6-17.6 kW] Models
575V, 3 PH, 60 Hz

- For **Honeywell** Economizer
- Downflow or horizontal applications
- Requires separate 208-230 Volt – 1 PH power supply with disconnect or requires separate 460V – 3 PH power supply with disconnect
- Adjustable switch on economizer, factory preset to energize power exhaust at 95% outside air position
- Polarized plug connects power exhaust relay to economizer



POWER EXHAUST KIT FOR TXRD-MECM(-) ECONOMIZERS

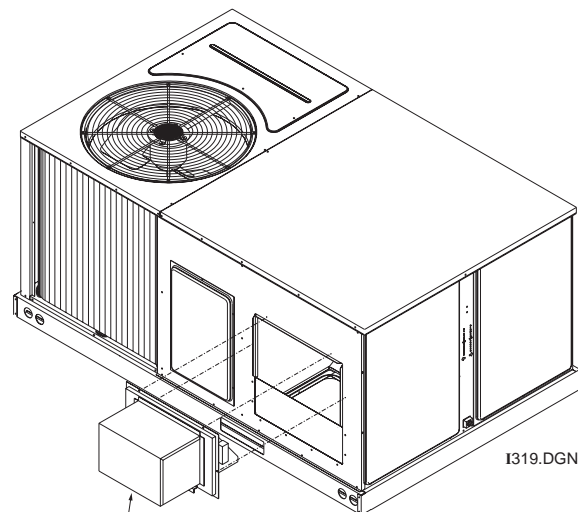
Model No.	No. of Fans	Volts	Phase	Watts (ea.)	High Speed		FLA (ea.)	LRA (ea.)
					CFM ①	RPM		
TXRX-BGF04C	1	208/230	1	1000	2500	1725	4.4	23.7
TXRX-BGF04D	1	460	1	800	2370	1620	1.8	4.1
TXRX-BGF04Y	1	575	1	800	2370	1620	1.5	3.3

FRESH AIR DAMPER

TZCAC-3 3-5 Ton [10.6-17.6 kW] Models

RXRF-FBA1 (Manual)

RXRF-FBB1 (Motorized)



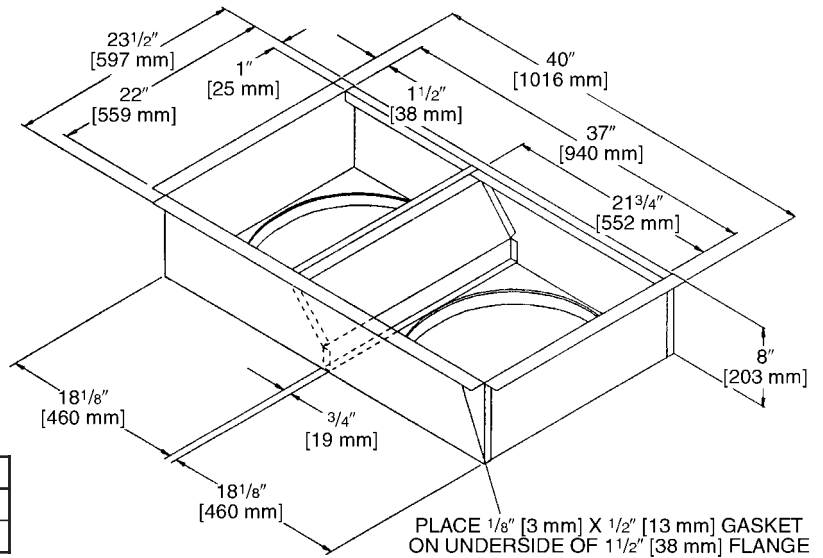
I319.DGN

[] Designates Metric Conversions

FRESH AIR DAMPER

DUCT ADAPTERS (TZCAC-3 3 TO 5 TON [10.6 TO 17.6 kW] MODELS) Rectangular to Round Transitions (Downflow)

Two sizes available
(18" [457 mm] and
20" [508 mm] round)
fit all units. Drops
into and secures to
RXKG- Series Roofcurbs.
**For use with
Concentric Diffusers.**



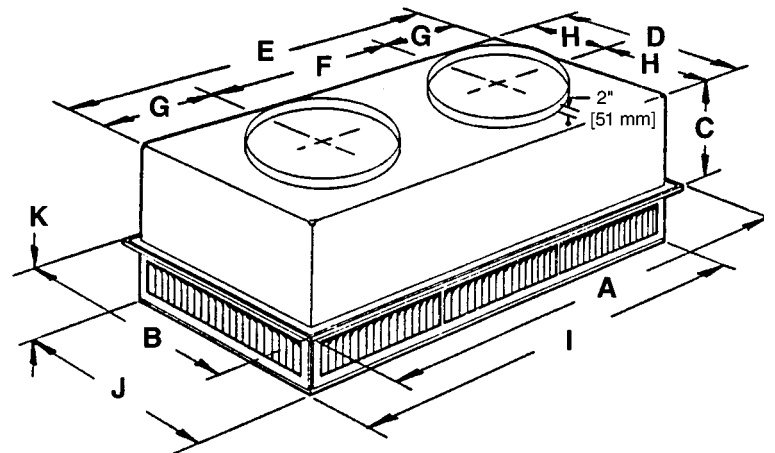
Accessory Model No.	Model Application Tons [kW]	Size in. [mm]
RXMC-CB03	3-5 [10.6-17.6]	18 [457] Round
RXMC-CB04	3-5 [10.6-17.6]	20 [508] Round

[] Designates Metric Conversions

SIDE DISCHARGE CONCENTRIC DIFFUSER

RXRN-FA60 (3 to 5 Ton [10.6 to 17.6 kW] Models)
RXRN-FA65 (3 to 7.5 Ton [10.6 to 26.4 kW] Models)

For Use With Duct Adapter (RXMC)



DIMENSIONAL DATA

Model No.	A	B	C	D	E	F	G	H	I	J	K	Duct Size
RXRN-FA60	47 5/8" [1210 mm]	23 5/8" [600 mm]	11 3/8" [289 mm]	21 1/2" [546 mm]	45 1/2" [1156 mm]	22 1/2" [572 mm]	11 1/2" [292 mm]	10 3/4" [273 mm]	45 1/2" [1156 mm]	21 1/2" [546 mm]	7 1/8" [181 mm]	18RD
RXRN-FA65	47 5/8" [1210 mm]	29 5/8" [752 mm]	14 3/8" [365 mm]	27 1/2" [699 mm]	45 1/2" [1156 mm]	22 1/2" [572 mm]	11 1/2" [292 mm]	13 3/4" [349 mm]	45 1/2" [1156 mm]	27 1/2" [699 mm]	8 1/8" [206 mm]	20RD

ENGINEERING DATA

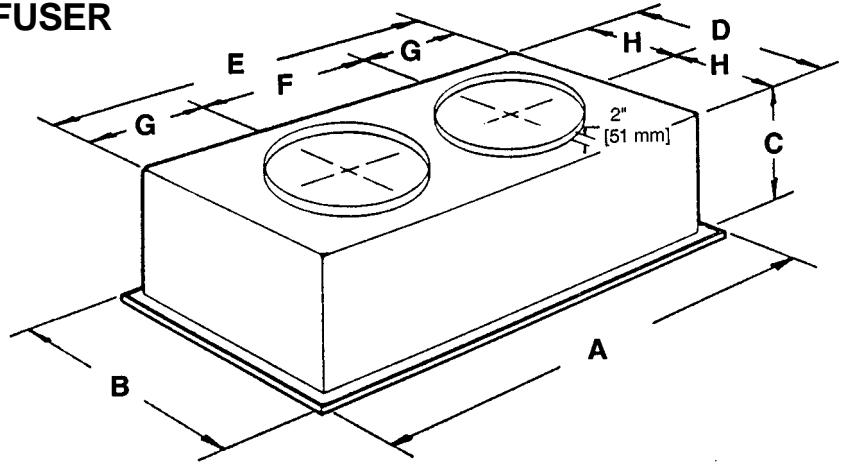
Model No.	CFM [L/s]	Static Pressure	Throw Feet	Neck Vel.	Jet Vel.	Noise Level
RXRN-FA60	1000 [472]	.14	10-17	351	351	20
	1200 [566]	.17	11-18	421	421	20
	1400 [661]	.20	12-19	491	491	20
	1600 [755]	.24	12-20	561	561	20
	1800 [850]	.30	13-21	632	632	20
	2000 [944]	.36	14-23	702	702	20
	2200 [1038]	.40	16-25	772	772	20
RXRN-FA65	2600 [1227]	.17	24-29	669	669	20
	2800 [1321]	.20	25-30	720	720	25
	3000 [1416]	.25	27-33	772	772	25
	3200 [1510]	.31	28-35	623	623	25
	3400 [1605]	.37	30-37	874	874	30

ACCESSORIES

FLUSH MOUNT CONCENTRIC DIFFUSER

RXRN-FA70 (3 to 5 Ton [10.6 to 17.6 kW] Models)

For Use With Duct Adapter (RXMC)



DIMENSIONAL DATA

Model No.	A	B	C	D	E	F	G	H	Duct Size
RXRN-FA70	47 ⁵ / ₈ " [1210 mm]	23 ⁵ / ₈ " [600 mm]	13 ¹ / ₂ " [343 mm]	21" [533 mm]	45" [1143 mm]	22 ¹ / ₂ " [572 mm]	11 ¹ / ₄ " [286 mm]	10 ¹ / ₂ " [267 mm]	18RD
RXRN-FA75	47 ⁵ / ₈ " [1210 mm]	29 ⁵ / ₈ " [752 mm]	16 ⁵ / ₈ " [442 mm]	27" [666 mm]	45" [1143 mm]	22 ¹ / ₂ " [572 mm]	11 ¹ / ₄ " [286 mm]	13 ¹ / ₂ " [343 mm]	20RD

ENGINEERING DATA

Model No.	CFM [L/s]	Static Pressure	Throw Feet	Neck Vel.	Jet Vel.	Noise Level
RXRN-FA70	1000 [472]	.14	15-20	391	694	20
	1200 [566]	.17	16-22	469	833	25
	1400 [661]	.20	17-24	547	972	30
	1600 [755]	.24	18-25	625	1111	30
	1800 [850]	.30	20-28	703	1250	35
	2000 [944]	.36	21-29	781	1389	40
	2200 [1038]	.40	22-30	859	1528	40
RXRN-FA75	2600 [1227]	.17	19-24	663	1294	30
	2800 [1321]	.20	20-28	714	1393	35
	3000 [1416]	.25	21-29	765	1492	35
	3200 [1510]	.31	22-29	616	1592	40
	3400 [1605]	.37	22-30	667	1692	40

[] Designates Metric Conversions

SAMPLE SPECIFICATIONS

Unit shall be completely factory assembled and performance tested to provide the required cooling and heating functions suitable for outdoor installations. Unit shall be UL/cUL listed and rated in accordance to ARI Standard 210.

Cabinet

Unit casing, base pan and framework shall be manufactured of galvanized sheet metal primed and finished with powder paint capable of withstanding a 1000-hour salt spray test per ASTM B 117. Unit interior cabinet surfaces shall be insulated with a minimum 1/2-inch thick foil faced insulation. Access panels shall be easily removable providing access to the blower, filter, heating compartment, and compressor/control box. Unit base rails shall be provided with fork insertion slots and rigging holes. Condensate drain pan shall be of sloped design to conform to ASHRAE 62. Unit shall be supplied ready for vertical airflow and be easily convertible to horizontal airflow at or before installation.

Compressor(s)

Unit shall be provided with fully hermetic scroll compressor(s) with internally protected safety controls.

Coils

The evaporator and condenser coils shall be fabricated of copper tubes with mechanically bonded aluminum plate fins. They shall be pressure tested prior to assembly into the unit, and electronically leak tested after assembly.

Condenser Fan

A single direct drive propeller fan shall discharge air vertically upward. The fan motor shall be permanently lubricated and have built-in overload protection.

Evaporator Blower

A single, double inlet, centrifugal wheel shall rotate in permanently lubricated ball bearings. The wheel shall be made from steel with corrosion resistant finish and shall be statically and dynamically balanced.

ACCESSORIES

ROOF CURB

Curb shall be full perimeter type, complying with the standards of the National Roofing Contractors Association. Design shall provide for drop-in of supply and return ducts prior to setting unit, and include an insulating panel for the rest of the curb area.

Economizer

Economizer shall be completely assembled for field installation. Unit shall include all controls and dampers including the barometric relief damper.

Manual Fresh Air Damper

Damper shall consist of damper and rainhood which is manually preset to admit up to 35% of outside air for field installation.

Motorized Fresh Air Damper

Damper shall consist of motor, damper, and rainhood which can admit up to 35% of outside air for field installation.

Electric Heat Kits

Electric heat kits shall be available in a wide range of capacity with branch circuit fusing allowing single point wiring. Kits shall be UL/cUL approved. Each kit shall be offered as a field or factory installed option.

Pressure Controls

High and low pressure controls shall be included for field or factory installation.

Low Ambient Control

Low ambient control shall be provided to cycle the condenser fan in response to condensing pressure and allow operation to 0 degrees F. The option shall be field or factory installed.

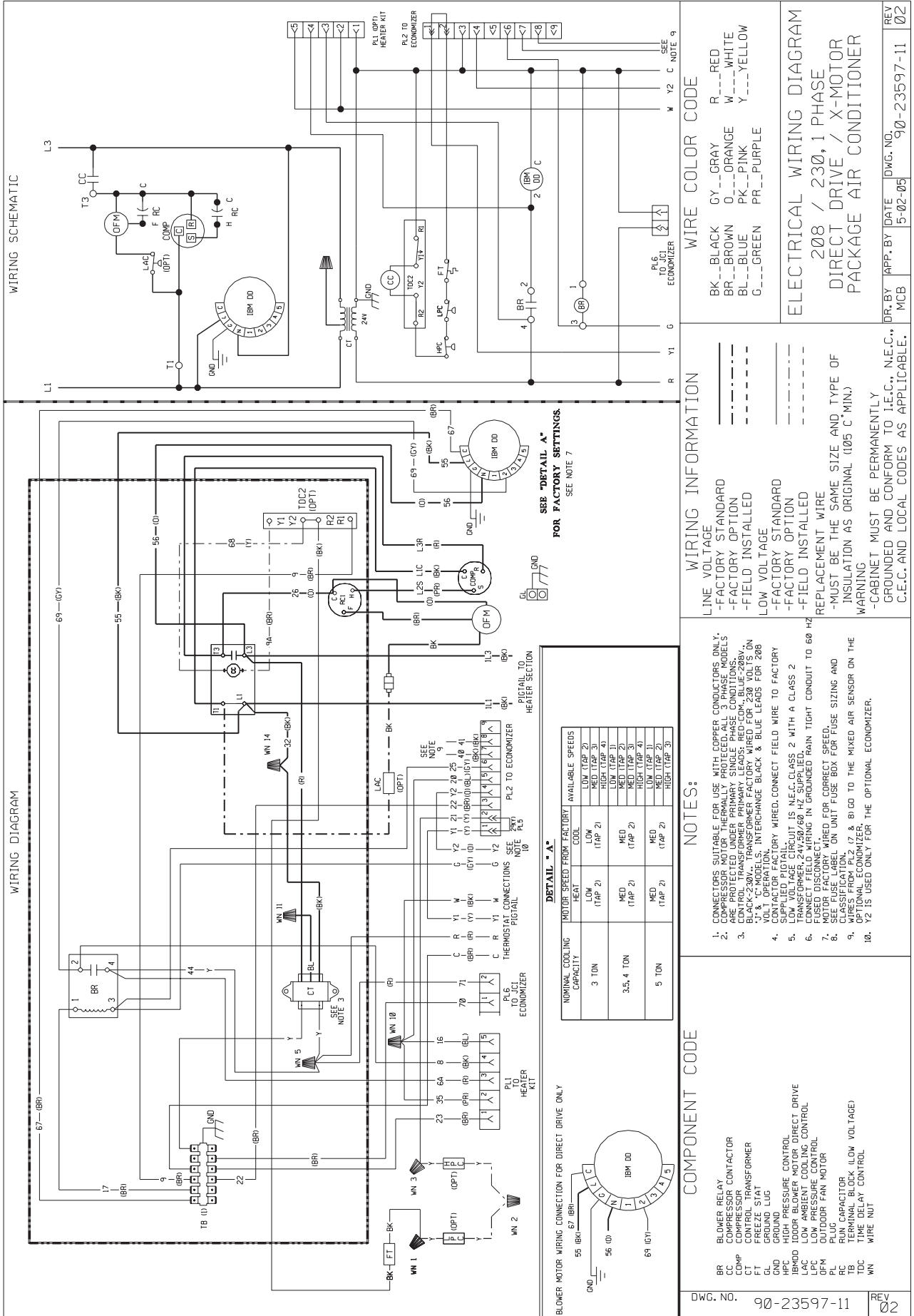
Time Delay Control

Time delay control shall be provided to prevent the compressor from restarting 5 minutes after shutdown. The control shall be field or factory installed.

Louver Panel Kits

Field or factory installed louver kits shall be provided for condenser coil protection against hail or flying debris.

WIRING SCHEMATICS—TZCAC-3 SERIES



WIRE COLOR CODE

BK	BLACK	GY	GRAY	R	RED
BR	BROWN	O	ORANGE	W	WHITE
BL	BLUE	PK	PINK	Y	YELLOW
G	GREEN	PR	PURPLE		

ELECTRICAL WIRING DIAGRAM
208 / 230V, 1 PHASE
DIRECT DRIVE / X-MOTOR
PACKAGE AIR CONDITIONER

WIRING INFORMATION

LINE VOLTAGE
-FACTORY STANDARD
-FACTORY OPTION
-FIELD INSTALLED

LOW VOLTAGE
-FACTORY STANDARD
-FIELD INSTALLED
REPLACEMENT WIRE
-INSULATION AS ORIGINAL (105 C-MIN)
WARNING
-CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C. AND LOCAL CODES AS APPLICABLE.

NOTES

- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
- ALL ELECTRICAL CONNECTIONS MUST BE MADE TO THE WIRING PANELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
- CONTROL TRANSFORMER PRIMARY LEADS: RED-COM., BLUE-208V., BLACK-230V. INTERCHANGE BLACK & BLUE LEADS FOR 208 VOLTS ON VOL. OPERATION.
- CONTACTOR FACTORY WIRED; CONNECT FIELD WIRE TO FACTORY SUPPLIED CIRCUIT. IS N.E.C. CLASS 2 WITH A CLASS 2 SUPPLY VOLTAGE.
- TRANSFORMER, 24V, 50/60 HZ SUPPLIED.
- CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO 60 HZ.
- USE THE FACTORY WIRING FOR CORRECT SPEED.
- SEE FUSE LABEL ON UNIT FUSE BOX FOR FUSE SIZING AND CLASSIFICATION.
- SEE FUSE LABEL ON UNIT FUSE BOX FOR THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
- Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

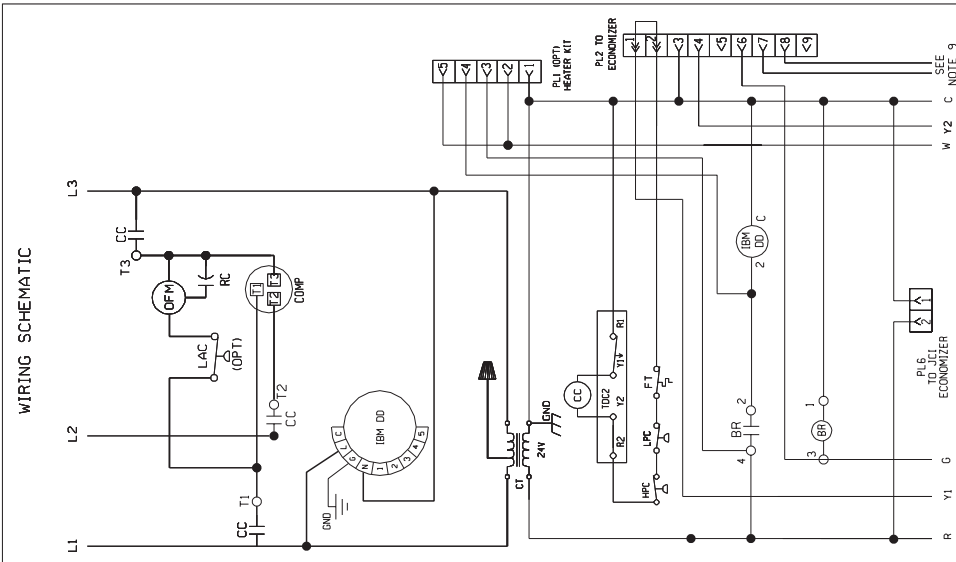
COMPONENT CODE

BR	BLOWER RELAY
CC	COMPRESSOR CONTACTOR
CCMP	COMPRESSOR TRANSFORMER
CT	FREEZE STAT
GL	GROUND
GN	GROUND
HPC	HIGH PRESSURE CONTROL
IBMOD	INDOOR BLOWER MOTOR DIRECT DRIVE
LPC	LOW PRESSURE CONTROL
OPM	OUTDOOR FAN MOTOR
PL	PLUG
RC	RUN CAPACITOR
TDG	TERMINAL BLOCK (LOW VOLTAGE)
WN	WIRE NUT

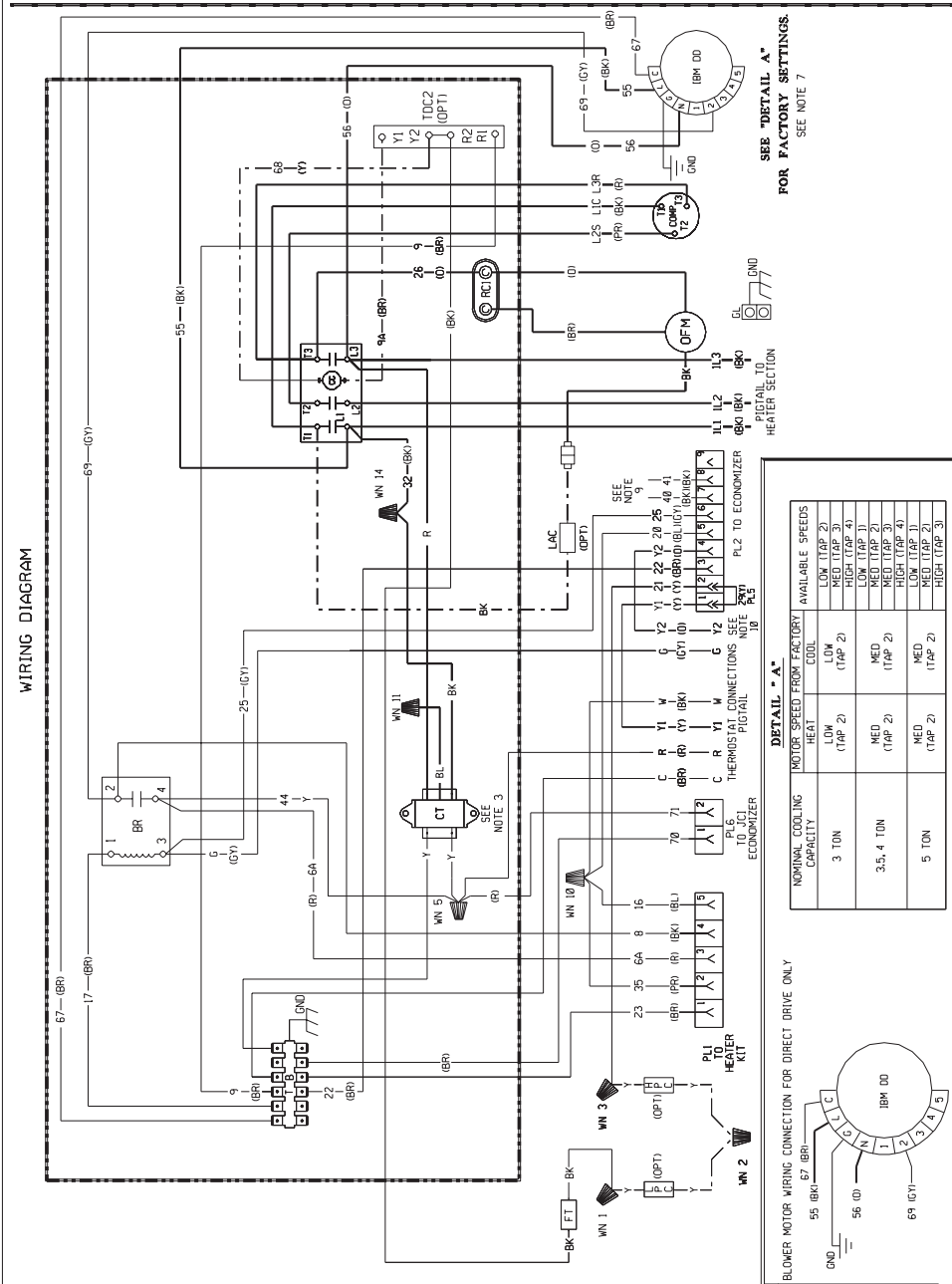
BLOWER MOTOR WIRING CONNECTION FOR DIRECT DRIVE ONLY

WIRING CONNECTION FOR DIRECT DRIVE ONLY

WIRING CONNECTION FOR DIRECT DRIVE ONLY



LINE VOLTAGE	WIRING INFORMATION
-FACTORY STANDARD	
-FACTORY OPTION	
-FIELD INSTALLED	
LOW VOLTAGE	
-FACTORY STANDARD	
-FACTORY OPTION	
-FIELD INSTALLED	
REPLACEMENT WIRE	
-MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105°C MIN.)	
-CABINET MUST BE PERFORMANTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C. AND LOCAL CODES AS APPLICABLE.	



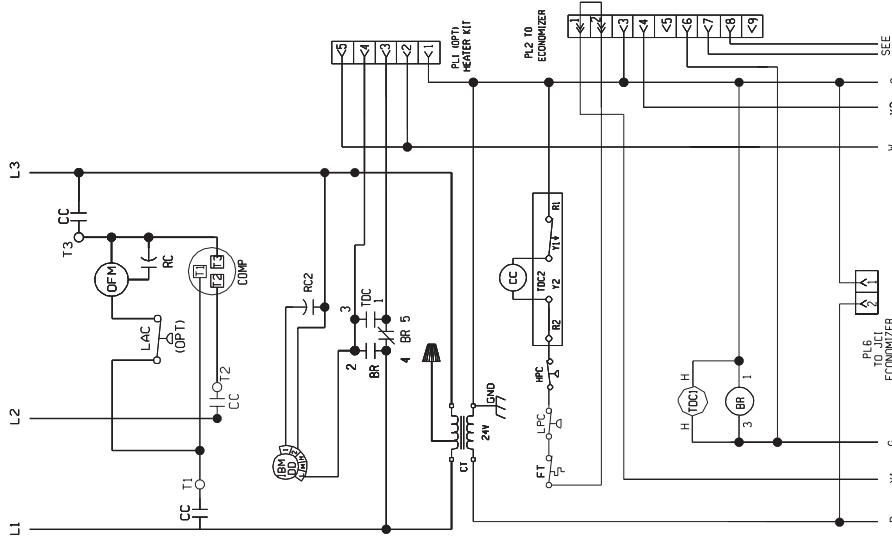
COMPONENT CODE

BR	BLOWER RELAY	PL 2	HEATER KIT
BC	COMPRESSOR CONTACTOR	PL 6	ECONOMIZER
CC	CONTROL TRANSFORMER		
CT	FREZE STAT		
CL	GROUND LUG		
FL	HIGH PRESSURE CONTROL		
IBMD	INDOOR BLOWER MOTOR DIRECT DRIVE		
LAC	LOW AMBIENT COOLING CONTROL		
LPC	LOW PRESSURE CONTROL		
OPM	OUTDOOR FAN MOTOR		
PL	PLUG		
RC	RUN CAPACITOR		
TD	TERMINAL BLOCK (LOW VOLTAGE)		
WN	TIME DELAY CONTROL WIRE NUT		

DWG. NO.	90-23597-12	REV	02
DR-BY	APP-BY	DATE	DWG. NO.
MCB		5-2-05	90-23597-12
			REV 02

WIRING SCHEMATICS—TZCAC-3 SERIES

WIRING SCHEMATIC



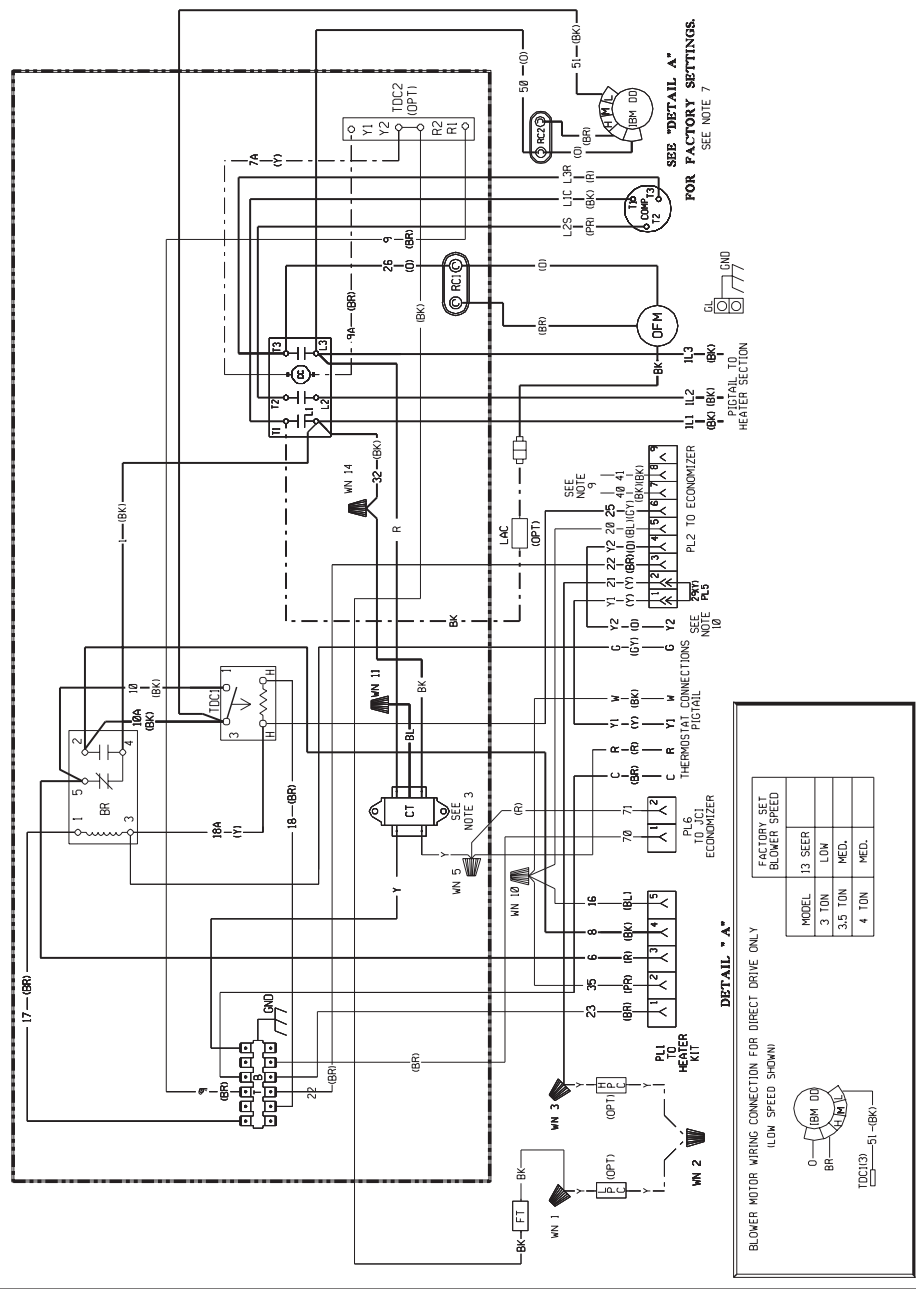
WIRE COLOR CODE

BK	BLACK	GY	GRAY	R	RED
BR	BROWN	O	ORANGE	W	WHITE
BL	BLUE	PK	PINK	Y	YELLOW
G	GREEN	PR	PURPLE		

ELECTRICAL WIRING DIAGRAM
208 / 230, 3 PHASE
DIRECT DRIVE
PACKAGE AIR CONDITIONER

DR. BY	APP. BY	DATE	DWG. NO.	REV
MCB		5-19-05	90-23597-13	01

WIRING DIAGRAM



BLOWER MOTOR WIRING CONNECTION FOR DIRECT DRIVE ONLY (LOW SPEED SHOWN)

MODEL	FACTORY SET BLOWER SPEED
3 TON	LOW
3.5 TON	MED.
4 TON	MED.

WIRING INFORMATION

- LINE VOLTAGE
- FACTORY STANDARD
- FACTORY OPTION
- FIELD INSTALLED
- LOW VOLTAGE
- FACTORY STANDARD
- FACTORY OPTION
- FIELD INSTALLED
- REPLACEMENT WIRE
- MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105 C° MIN.)
- CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C. AND LOCAL CODES AS APPLICABLE.

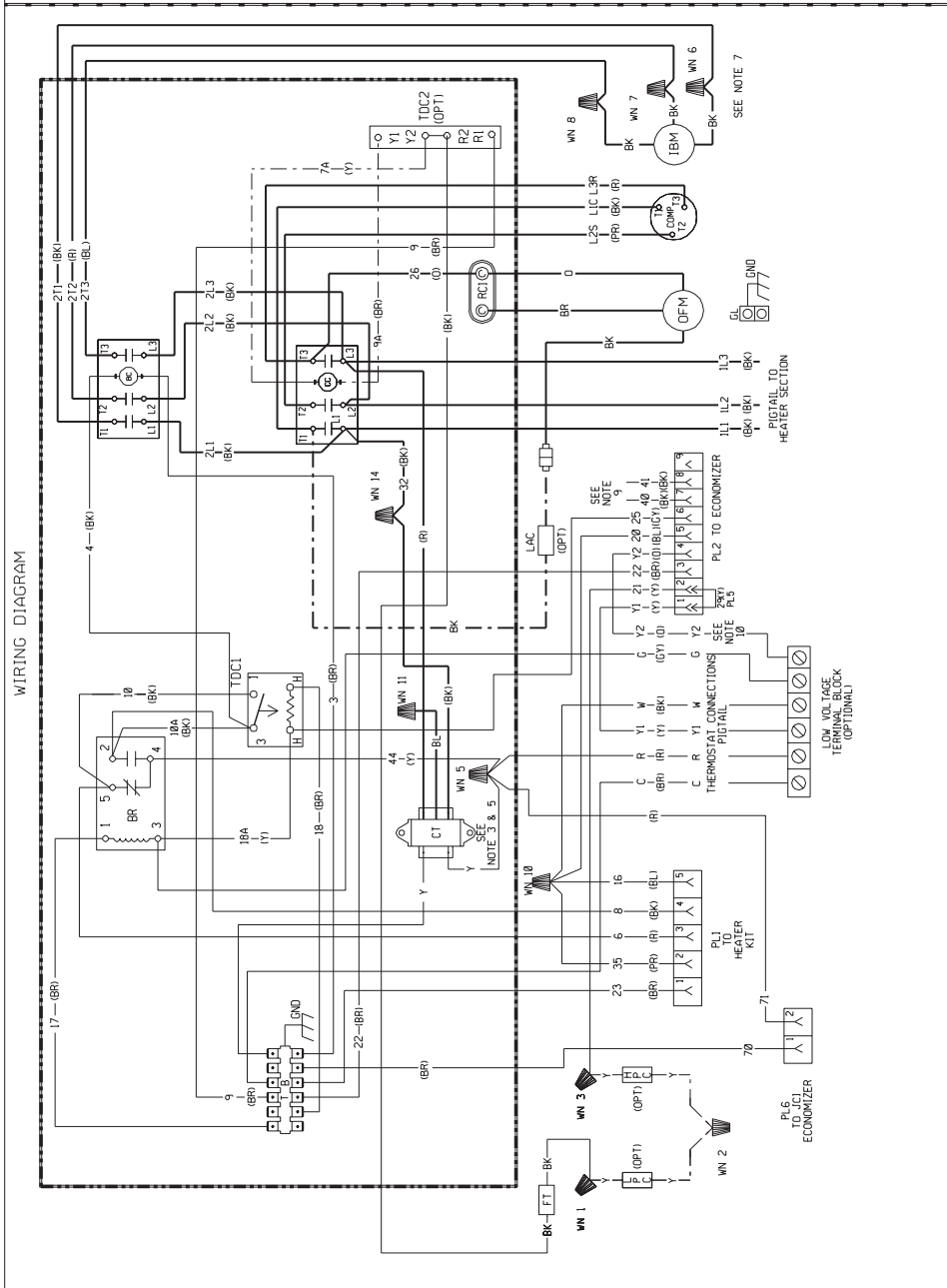
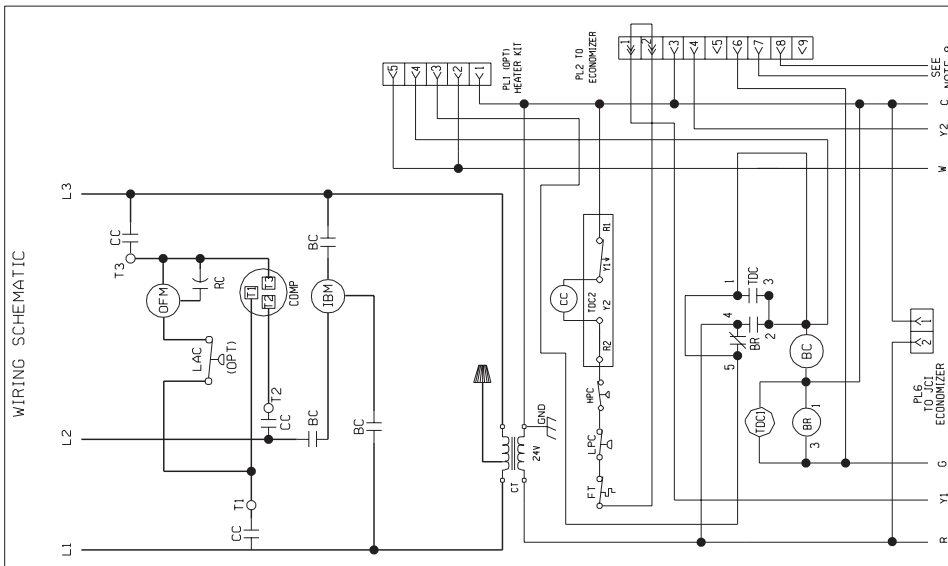
NOTES:

- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY. COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
- TRANSFORMER 24V/50/60 HZ SUPPLIED.
- BLACK-230V, WHITE-208V, RED-208V, BLUE-208V, GREEN-208V, YELLOW-208V, PURPLE-208V, PINK-208V, ORANGE-208V, GRAY-208V, BROWN-208V, BLACK-208V. INTERCHANGE BLACK & BLUE LEADS FOR 208 VOLT OPERATION.
- SUPPLIED PICTorial WIRE TO FACTORY
- LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER 24V/50/60 HZ SUPPLIED.
- FUSED DISCONNECT IN GROUNDING MAIN TIGHT CONDUIT TO 60 HZ
- MOTOR FACTORY WIRE FOR CORRECT SPEED.
- SEE FUSE LABEL ON UNIT FUSE BOX FOR FUSE SIZING AND WIRE SIZE.
- WIRE FROM PL 2 (7 & 8) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
- Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

COMPONENT CODE

- BR BLOWER RELAY
- CDMP COMPRESSOR CONTACTOR
- CT CONTROL TRANSFORMER
- FT FREEZE STAT
- GND GROUND
- INDPDR INDOOR DRAFT MOTOR DIRECT DRIVE
- LAC LOW AMBIENT COOLING CONTROL
- LPC LOW PRESSURE CONTROL
- OFM OUTDOOR FAN MOTOR
- PL PLUG CABINATOR
- TS TERMINAL BLOCK (LOW VOLTAGE)
- TD TIME DELAY CONTROL
- WN WIRE NUT

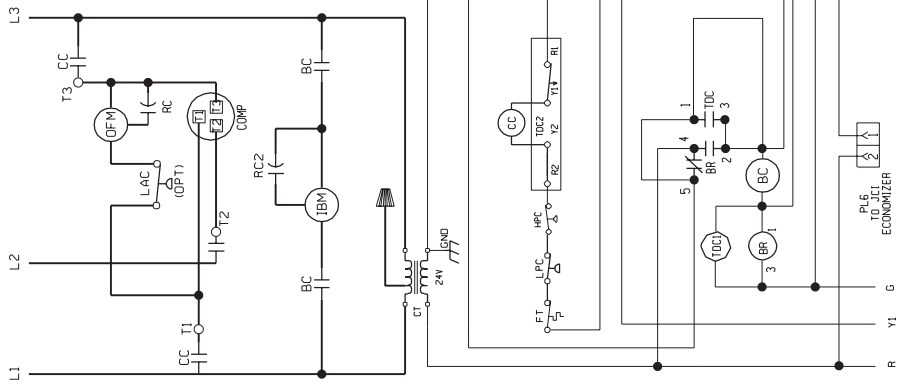
DWG. NO.	REV
90-23597-13	01



<p>WIRING INFORMATION</p> <p>LINE VOLTAGE -FACTORY STANDARD -FACTORY OPTION -FIELD INSTALLED</p> <p>LOW VOLTAGE -FACTORY STANDARD -FACTORY OPTION -FIELD INSTALLED</p> <p>REPLACEMENT WIRE -MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105°C MIN.)</p> <p>WARNING -CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C. AND LOCAL CODES AS APPLICABLE.</p>	<p>NOTES:</p> <ol style="list-style-type: none"> CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY. ALL ELECTRICAL CONNECTIONS MUST BE PROTECTED UNDER LABELS. CONTROL PANEL UNDER PRIMARY SINGLE PHASE CONDITIONS: 208V, 230V, 460V, 575V, 590V, 600V, 690V, 720V, 760V, 800V, 825V, 850V, 900V, 950V, 1000V, 1050V, 1100V, 1150V, 1200V, 1250V, 1300V, 1350V, 1400V, 1450V, 1500V, 1550V, 1600V, 1650V, 1700V, 1750V, 1800V, 1850V, 1900V, 1950V, 2000V, 2050V, 2100V, 2150V, 2200V, 2250V, 2300V, 2350V, 2400V, 2450V, 2500V, 2550V, 2600V, 2650V, 2700V, 2750V, 2800V, 2850V, 2900V, 2950V, 3000V, 3050V, 3100V, 3150V, 3200V, 3250V, 3300V, 3350V, 3400V, 3450V, 3500V, 3550V, 3600V, 3650V, 3700V, 3750V, 3800V, 3850V, 3900V, 3950V, 4000V, 4050V, 4100V, 4150V, 4200V, 4250V, 4300V, 4350V, 4400V, 4450V, 4500V, 4550V, 4600V, 4650V, 4700V, 4750V, 4800V, 4850V, 4900V, 4950V, 5000V, 5050V, 5100V, 5150V, 5200V, 5250V, 5300V, 5350V, 5400V, 5450V, 5500V, 5550V, 5600V, 5650V, 5700V, 5750V, 5800V, 5850V, 5900V, 5950V, 6000V, 6050V, 6100V, 6150V, 6200V, 6250V, 6300V, 6350V, 6400V, 6450V, 6500V, 6550V, 6600V, 6650V, 6700V, 6750V, 6800V, 6850V, 6900V, 6950V, 7000V, 7050V, 7100V, 7150V, 7200V, 7250V, 7300V, 7350V, 7400V, 7450V, 7500V, 7550V, 7600V, 7650V, 7700V, 7750V, 7800V, 7850V, 7900V, 7950V, 8000V, 8050V, 8100V, 8150V, 8200V, 8250V, 8300V, 8350V, 8400V, 8450V, 8500V, 8550V, 8600V, 8650V, 8700V, 8750V, 8800V, 8850V, 8900V, 8950V, 9000V, 9050V, 9100V, 9150V, 9200V, 9250V, 9300V, 9350V, 9400V, 9450V, 9500V, 9550V, 9600V, 9650V, 9700V, 9750V, 9800V, 9850V, 9900V, 9950V, 10000V. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 FUSE DISCONNECTING IN PROTECTED RAIN TIGHT CONDUIT TO 60 HZ. CONNECTOR TO FACTORY WIRE, CONNECT FIELD WIRE TO FACTORY WIRE. TRANSFORMER, 24V, 50/60 HZ SUPPLIED. SEE FUSE LABEL ON UNIT FUSE BOX FOR FUSE SIZING AND WIRE GAUGE. SEE FUSE LABEL ON UNIT FUSE BOX FOR FUSE SIZING AND WIRE GAUGE. OPTIONAL ECONOMIZER. Y1, Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER. 	<p>COMPONENT CODE</p> <p>BL BLOWER MOTOR BR BLOWER RELAY CC COMPRESSOR CONTACTOR CT COMPRESSOR LAC LACTRANSFORMER LUG GROUND LUG GND GROUND HPC HIGH PRESSURE CONTROL IBMD INDOOR BLOWER MOTOR BELT DRIVE LFC LOW PRESSURE COOLING CONTROL LUG GROUND LUG PL PLUG PLUG OUTDOOR FAN MOTOR RC RUN CAPACITOR TB TERMINAL BLOCK (LOW VOLTAGE) WIRE WIRE WN WIRE</p>	<p>WIRE COLOR CODE</p> <p>BK BLACK BR BROWN BL BLUE G GREEN GR GRAY O ORANGE PK PINK PR PURPLE R RED W WHITE Y YELLOW</p> <p>ELECTRICAL WIRING DIAGRAM 208/230/460/575V, 3 PHASE 60 HZ. BELT DRIVE PACKAGE AIR CONDITIONER</p>
DWG. NO. 90-23597-14	REV 01	DATE 5-19-05	DR. BY MCB DWG. NO. 90-23597-14 REV 01

WIRING SCHEMATICS—TZCAC-3 SERIES

WIRING SCHEMATIC



WIRING INFORMATION

WIRE COLOR CODE

LINE VOLTAGE

WIRING INFORMATION

WIRING INFORMATION

BK	BLACK	GY	GRAY	R	RED
BR	BROWN	O	ORANGE	W	WHITE
BL	BLUE	PK	PINK	Y	YELLOW
G	GREEN	PR	PURPLE		

ELECTRICAL WIRING DIAGRAM
 460V, 3 PHASE 60 HZ.
 DIRECT DRIVE
 PACKAGE AIR CONDITIONER

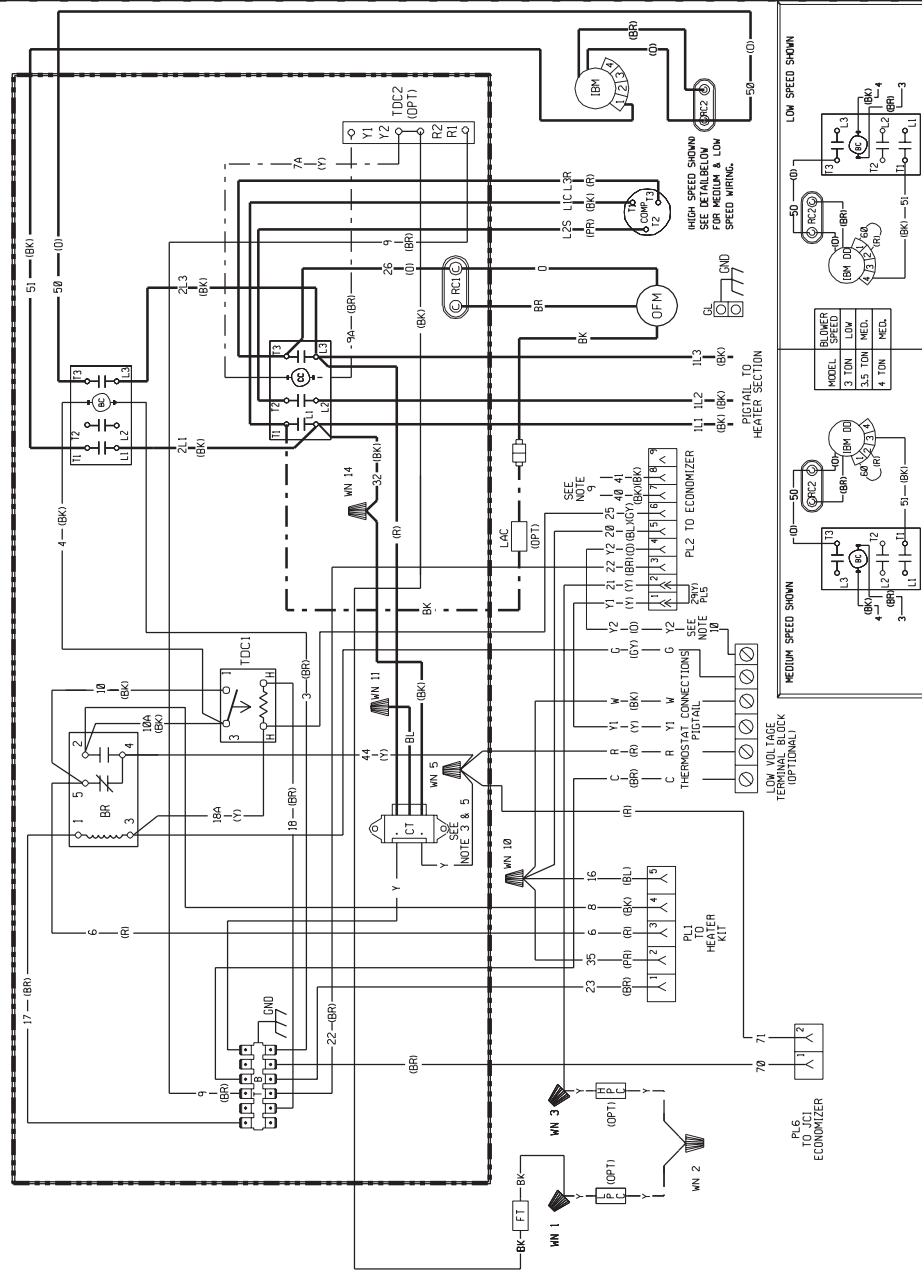
CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
 COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS
 CONTROL TRANSFORMER PRIMARY LEADS:
 60 HZ.
 RED-COMMON BLUE-208V RED-480V BLACK-BLUE-575V TRANSFORMER
 FACTORY WIRE FOR 230 VOLTS ON 'J' & 'C' MODELS. INTERCHANGE
 BLACK & BLUE LEADS FOR 208 VOLT OPERATION. 480 & 575 VOLT
 MODELS FACTORY WIRE FOR CORRECT VOLTAGE.
 ORANGE-COMMON BLUE-380V BLACK-415V.
 SUPPLIED PIPING KIT IS N.E.C. CLASS 2 WITH A CLASS 2
 TRANSFORMER. 24V/50/60 HZ SUPPLIED.
 CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO 60 HZ
 WIRE DISCONNECT FOR CORRECT SPEED.
 SEE FUSE LABEL ON UNIT FOR FUSE SIZING AND
 CLASSIFICATION.
 P.L.1 & P.L.2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

REPLACE THE SAME SIZE AND TYPE OF
 INSULATION AS ORIGINAL (105 C MIN.)
 -FIELD INSTALLED
 -FACTORY OPTION
 -FIELD INSTALLED
 -FACTORY STANDARD
 -FACTORY OPTION
 -FIELD INSTALLED

REPLACE WIRE
 -MUST BE THE SAME SIZE AND TYPE OF
 INSULATION AS ORIGINAL (105 C MIN.)
 WARNING
 -CABINET MUST BE PERMANENTLY
 GROUNDED AND CONFORM TO I.E.C., N.E.C.,
 C.E.C. AND LOCAL CODES AS APPLICABLE.

REV	02
DATE	5-19-05
APP. BY	MCB
DR. BY	
DWG. NO.	90-23597-15

WIRING DIAGRAM



COMPONENT CODE

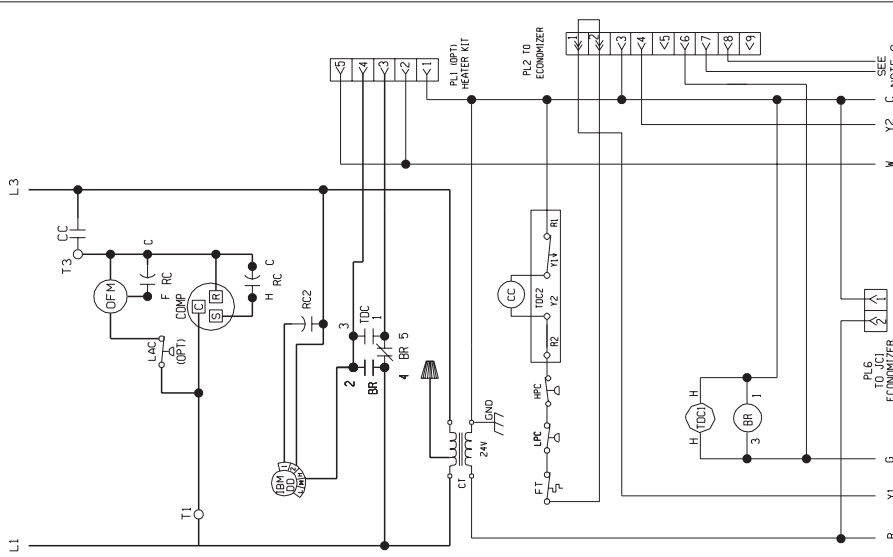
WIRING INFORMATION

BC	BLOWER MOTOR
CC	COMPRESSOR
COM	CONTROL TRANSFORMER
CT	CONTROL TRANSFORMER
FT	FREEZE STAT
GLD	GROUND LUG
HPC	HIGH PRESSURE CONTROL
IBMD	INDOOR BLOWER MOTOR BELT DRIVE
LAC	LOW AMBIENT COOLING CONTROL
LPC	LOW PRESSURE CONTROL
P	PLUS
PFM	INDOOR FAN MOTOR
RC	RUN CAPACITOR
TB	TERMINAL BLOCK (LOW VOLTAGE)
TDC	TIME DELAY CONTROL
WN	WIRE NUT

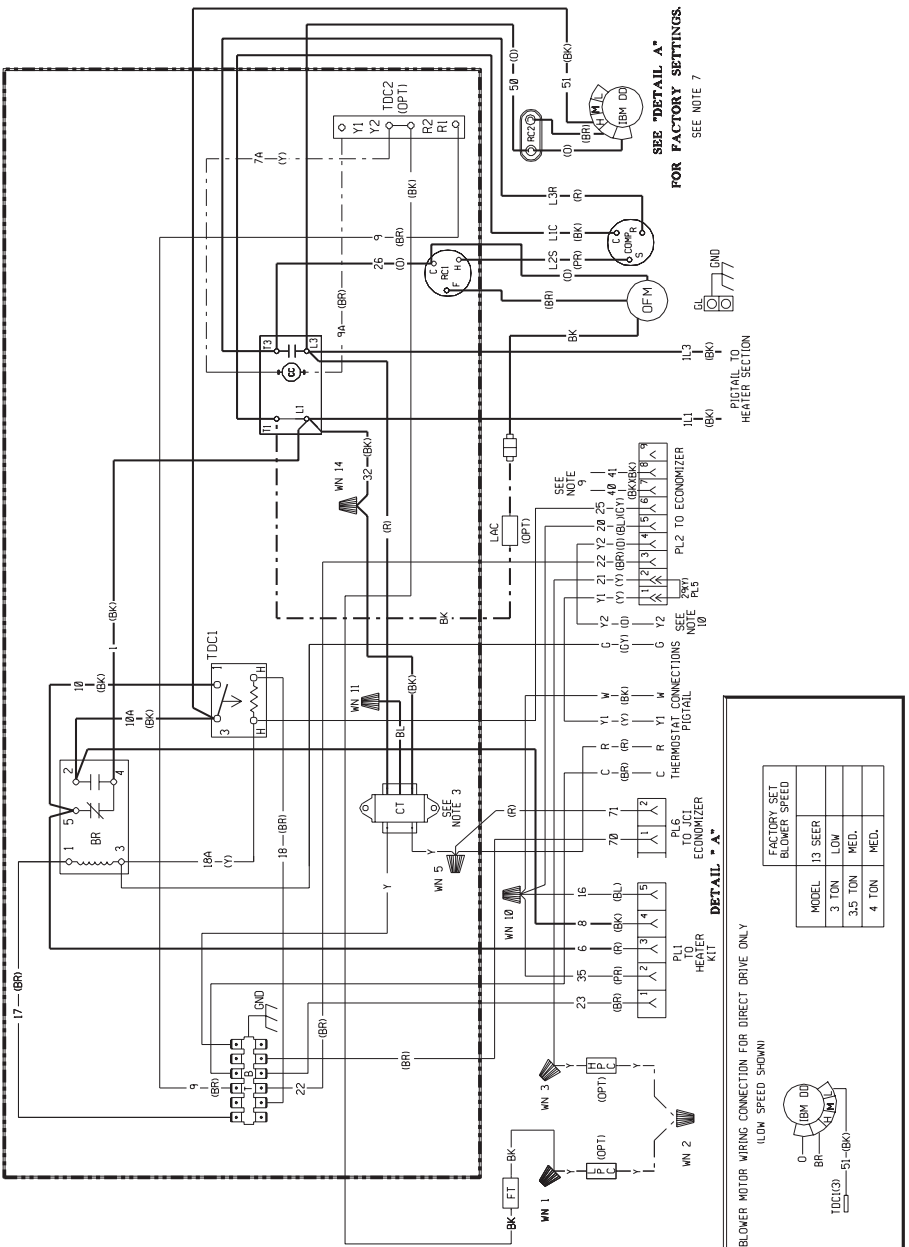
DWG. NO.	90-23597-15
REV	02

WIRING SCHEMATICS—TZCAC-3 SERIES

WIRING SCHEMATIC



WIRING DIAGRAM



WIRE COLOR CODE

BK	BLACK	GY	GRAY	R	RED
BR	BROWN	O	ORANGE	W	WHITE
BL	BLUE	PK	PINK	Y	YELLOW
G	GREEN	PR	PURPLE		

ELECTRICAL WIRING DIAGRAM
208 / 230V, 1 PHASE
DIRECT DRIVE
PACKAGE AIR CONDITIONER

WIRING INFORMATION

LINE VOLTAGE
 -FACTORY STANDARD
 -FACTORY OPTION
 -FIELD INSTALLED
 LOW VOLTAGE
 -FACTORY STANDARD
 -FACTORY OPTION
 -FIELD INSTALLED
 REPLACEMENT WIRE
 -MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105 C MIN.)
 -CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C. AND LOCAL CODES AS APPLICABLE.

NOTES:

- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
- COMPRESSOR MOTOR THERMALLY PROTECTED, ALL 3 PHASE MODELS MUST BE USED.
- TRANSFORMER PRIMARY WIRE FOR 230V, 208V, 200V, 220V, 240V, 250V, 260V, 270V, 280V, 290V, 300V, 310V, 320V, 330V, 340V, 350V, 360V, 370V, 380V, 390V, 400V, 410V, 420V, 430V, 440V, 450V, 460V, 470V, 480V, 490V, 500V, 510V, 520V, 530V, 540V, 550V, 560V, 570V, 580V, 590V, 600V.
- CONTRACTOR FACTORY WIRE, CONNECT FIELD WIRE TO FACTORY SUPPLIED PITTAIL.
- LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 FUSED DISCONNECT.
- CONNECT FIELD WIRING IN GROUNDED TRAIL TIGHT CONDUIT TO 60 Hz.
- MOTOR FACTORY WIRE FOR CORRECT SPEED.
- CLASSIFICATION ON UNIT FUSE BOX FOR FUSE SIZING AND WIRE FROM PL2 17 & 81 GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
- Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

COMPONENT CODE

BLOWER MOTOR WIRING CONNECTION FOR DIRECT DRIVE ONLY (LOW SPEED SHOWN)

BR	BLOWER RELAY
CC	COMPRESSOR CONTACTOR
COMP	COMPRESSOR
CT	CONTROL TRANSFORMER
FT	FREESTAT
GLD	GROUND LUG
HPC	HIGH PRESSURE CONTROL
IBMB0	INDOOR BLOWER MOTOR BELT DRIVE
IMDD	INDUCED DRAFT MOTOR DIRECT DRIVE
LAC	LOW AMBIENT COOLING CONTROL
DEFM	DEFROST MOTOR CONTROL
PL	INDOOR PART MOTOR
PLC	PLUS
RC	RUN CAPACITOR
TB	TERMINAL BLOCK (LOW VOLTAGE)
TDC	TIME DELAY CONTROL
WN	WIRE NUT

DWG. NO. 90-23597-16
REV 01

DR. BY DATE DWG. NO. 90-23597-16
MCB 5-23-05

BEFORE PURCHASING THIS APPLIANCE, READ IMPORTANT ENERGY COST AND EFFICIENCY INFORMATION AVAILABLE FROM YOUR RETAILER.

GENERAL TERMS OF LIMITED WARRANTY

Thermal Zone® will furnish a replacement for any part of this product which fails in normal use and service within the applicable periods stated, in accordance with the terms of the limited warranty.

***For Complete Details of the Limited Warranty, Including Applicable Terms and Conditions, See Your Local Installer or Contact the Manufacturer for a Copy.**

Conditional Parts* (Residential Applications)	
Registration Required.....	Ten (10) Years
Compressor	
14 SEER, 1-Phase,	
Residential Applications.....	Ten (10) Years
13 SEER Models.....	Five (5) Years
14 SEER Models, 1 Phase/3-Phase,	
Commercial Applications.....	Five (5) Years
Any Other Part	
3-Phase Models (Commercial Applications)...	One (1) Year

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

"In keeping with its policy of continuous progress and product improvement, the right is reserved to make changes without notice."