



PACKAGE HEAT PUMPS

FORM NO. PTZ-767

Featuring Earth-Friendly R-410A Refrigerant



TZHC-3JL HIGH EFFICIENCY 13-SEER SERIES**
NOMINAL SIZES 2-4 TONS [7.03-14.07 kW]

TZHC-4JL HIGH EFFICIENCY 14-SEER SERIES**
NOMINAL SIZES 2-4 TONS [7.03-14.07 kW]



Manufactured for
Thermal Zone®
Philadelphia, PA



(14 SEER ONLY)



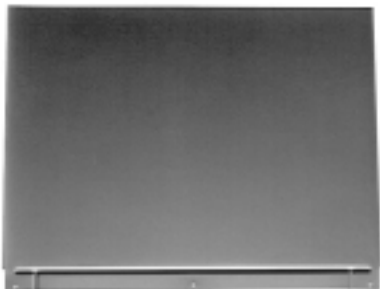
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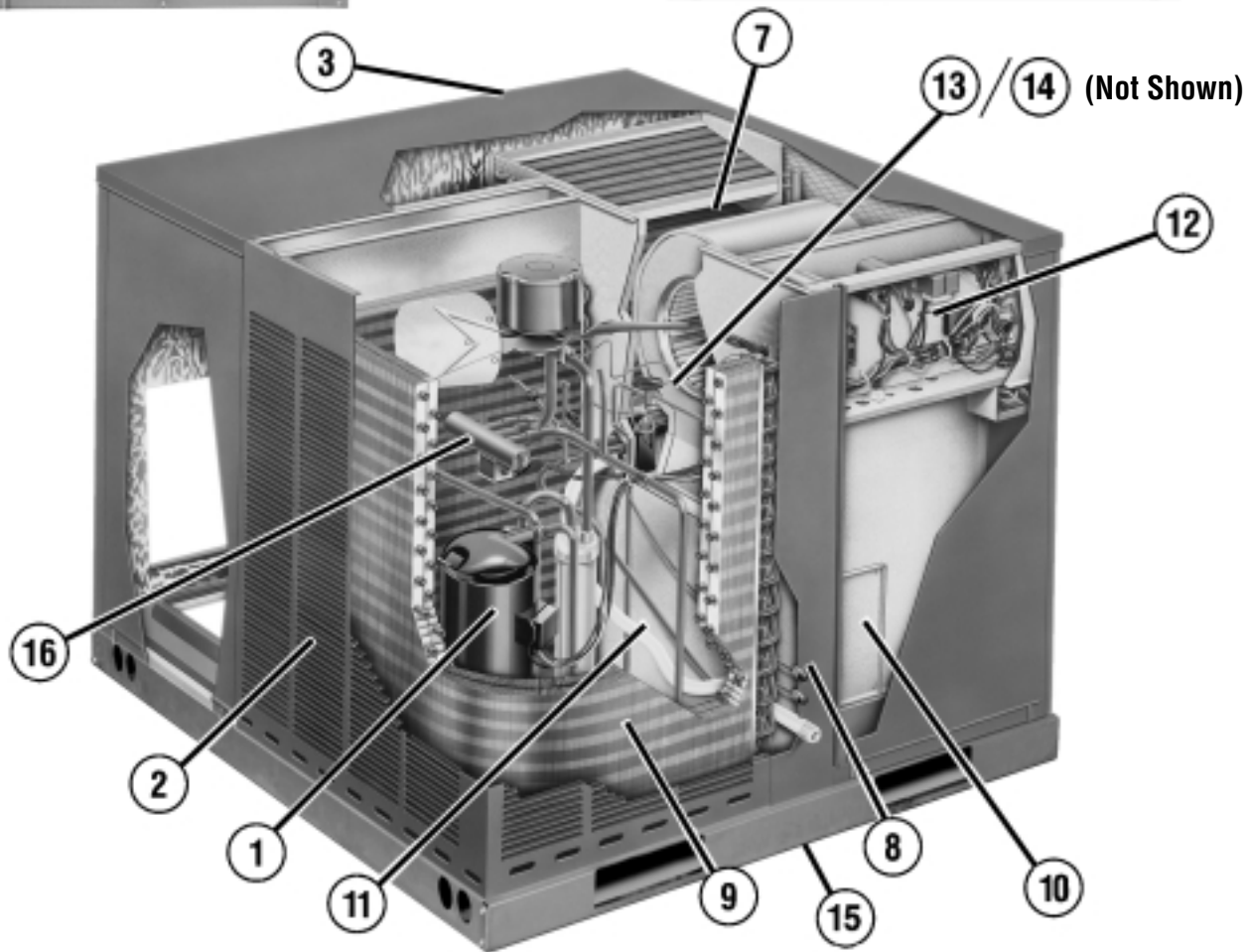
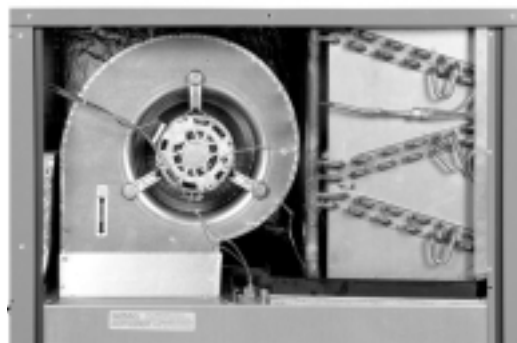
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UNIT FEATURES & BENEFITS—TZHC-3/TZHC-4 SERIES

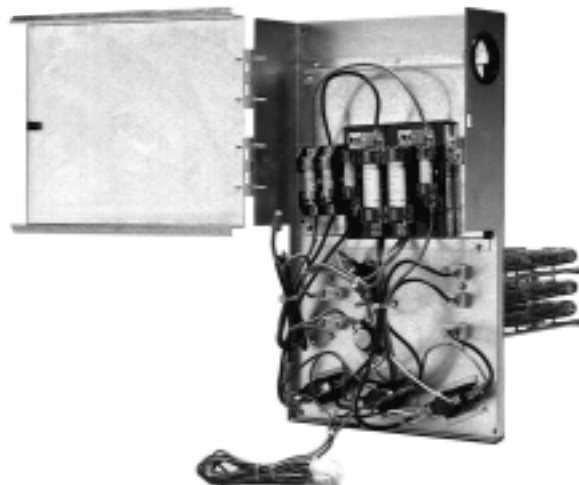
These quality features are included in the Thermal Zone® Outdoor Package Heat Pumps



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4



UNIT FEATURES & BENEFITS—TZHC-3/TZHC-4 SERIES



Features Below Correspond to Photos on Page 3

1. All models feature Scroll® compressors for maximum efficiency and quiet operation. This unit contains a special scroll compressor that is designed specifically to operate with R-410A Refrigerants and polyolester (POE) oils. The compressor is hermetically sealed and incorporates internal high temperature motor overload protection and durable insulation on the motor windings. It is externally mounted on rubber grommets to reduce vibration and noise.
2. Louvered condenser compartment for protecting the coil against yard hazards and/or weather extremes.
3. One-piece top with a deep flange to help keep water out of the unit.
4. Supply and return air openings feature a one-inch tall flange to prevent water migration into the ductwork.
5. Access panels have “weep holes” and channels to further help manage water run-off.
6. Down discharge conversion available on all models.
7. Easily accessible blower section complete with slide-out blower.
8. Refrigerant connections are conveniently located for easy service diagnostics.
9. Condenser and evaporator coils feature enhanced fins for better heat transfer and rifled copper tubing for greater efficiency.
10. Supplemental electric heat strips up to 15 kW are available (field installed) for periods of extreme cold temperatures. Single point wiring makes installation even easier.
11. All units feature an internal trap on the condensate line eliminating the need for installing an on-site external trap.
12. Easily accessible control box. Package heat pump utilizes demand defrost control which monitors the outdoor ambient temperature, outdoor coil temperature, and compressor run-time to determine when a defrost cycle is required.
13. Thermal Expansion Valve standard on all models for superior superheat control, reliability, and energy efficiency at all operating conditions.
14. Filter Drier Standard on all models (not shown).
15. Rugged Baseraill for improved installation and handling.
16. Reversing valve directs flow of refrigerant and reverses the refrigerant flow when heating is required.

MODEL IDENTIFICATION—TZHC-3/TZHC-4 SERIES



<u>TZ</u>	<u>H</u>	<u>C</u>	<u>—</u>	<u>3</u>	<u>24</u>	<u>J</u>	<u>L</u>
THERMAL ZONE®	HEAT PUMP	CONVERTIBLE		3 = 13 SEER 4 = 14 SEER	COOLING CAPACITY	ELECTRICAL DESIGNATION	DESIGN SERIES
					24 = 24,000 [7.03 kW] 30 = 30,000 [8.79 kW] 36 = 36,000 [10.55 kW] 42 = 42,000 [12.31 kW] 48 = 48,000 [14.07 kW] 60 = 60,000 [17.58 kW]	J = 208-230V —1PH—60Hz C = 208-230V —3PH—60Hz	L = R-410A

[] Designates Metric Conversions

OPTIONS—TZHC-3/TZHC-4 SERIES

Instructions for Factory Installed Option(s) Selection

Note: Two characters following the model number will be utilized to designate a factory-installed option or combination of options. If no factory option(s) is required, nothing follows the model number.

Step 1. After a basic rooftop model is selected, choose a *two-character* option code from the FACTORY INSTALLED OPTION SELECTION TABLE.

FACTORY INSTALLED OPTION CODES

Option Code	Side Flow
AA	No Option
AKA	x

Note: Factory installed economizer is not available on these models.

NOMINAL SIZES 2-4 TONS [7.03-14.07 kW]

Model TZHC- Series	324JL	330JL	336JL
Cooling Performance¹			CONTINUED →
Gross Cooling Capacity Btu [kW]	24,400 [7.15]	29,000 [8.5]	36,200 [10.61]
EER/SEER ²	11/13	11/13	11/13
Nominal CFM/ARI Rated CFM [L/s]	800/800 [378/378]	1000/1000 [472/472]	1200/1250 [566/590]
ARI Net Cooling Capacity Btu [kW]	23,600 [6.91]	27,800 [8.15]	35,000 [10.26]
Net Sensible Capacity Btu [kW]	17,600 [5.16]	20,800 [6.09]	26,000 [7.62]
Net Latent Capacity Btu [kW]	6,000 [1.76]	7,000 [2.05]	9,000 [2.64]
Net System Power kW	2.15	2.53	3.18
Heating Performance (Heat Pumps)⁴			
Heating Input Btu [kW] Rating	23,600 [6.91]	28,200 [8.26]	34,000 [9.96]
System Power KW/COP	2.02/3.4	2.45/3.4	2.86/3.5
Low Temp. Btuh [kW] Rating	13,000 [3.81]	16,000 [4.69]	19,500 [5.71]
System Power KW/COP	1.9/2	2.26/2.1	2.61/2.2
HSPF (Btu/Watts-hr)	7.7	7.7	7.7
Compressor			
No./Type	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)³	76	76	76
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	14.51 [1.35]	16.32 [1.52]	11.2 [1.04]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	2 / 22 [9]
Refrigerant Control	TX Valves	TX Valves	TX Valves
Indoor Coil—Fin Type	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	5.54 [0.51]	7.39 [0.69]	7.39 [0.69]
Rows / FPI [FPcm]	2 / 15 [6]	2 / 15 [6]	2 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/22 [558.8]	1/22 [558.8]	1/22 [558.8]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1
CFM [L/s]	2700 [1274]	2700 [1274]	2700 [1274]
No. Motors/HP	1 at 1/5 HP	1 at 1/5 HP	1 at 1/5 HP
Motor RPM	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/9x7 [228.6x177.8]	1/10x9 [254x228.6]	1/10x9 [254x228.6]
Drive Type/No. Speeds	Direct/2	Direct/3	Direct/1
No. Motors	1	1	1
Motor HP	1/4	1/2	1/3
Motor RPM	1075	1075	1075
Motor Frame Size	48	48	48
Filter—Type	Field Supplied	Field Supplied	Field Supplied
Furnished	No	No	No
(No.) Size Recommended in. [mm]	(1)1x20x20 [25x508x508]	(1)1x24x24 [25x610x610]	(1)1x24x24 [25x610x610]
Refrigerant Charge Oz. [g]	98 [2778]	108 [3062]	146 [4139]
Weights			
Net Weight lbs. [kg]	391 [177]	444 [201]	468 [212]
Ship Weight lbs. [kg]	401 [182]	455 [206]	479 [217]

See Page 11 for Notes.

[] Designates Metric Conversions

GENERAL DATA—TZHC-3 SERIES

NOMINAL SIZES 2-4 TONS [7.03-14.07 kW]

Model TZHC- Series	324JL	348JL
Cooling Performance¹		
Gross Cooling Capacity Btu [kW]	43,500 [12.75]	49,000 [14.36]
EER/SEER ²	11/13	11/13
Nominal CFM/ARI Rated CFM [L/s]	1400/1400 [661/661]	1600/1600 [755/755]
ARI Net Cooling Capacity Btu [kW]	42,500 [12.45]	47,500 [13.92]
Net Sensible Capacity Btu [kW]	31,500 [9.23]	36,000 [10.55]
Net Latent Capacity Btu [kW]	11,000 [3.22]	11,500 [3.37]
Net System Power kW	3.86	4.31
Heating Performance (Heat Pumps)⁴		
Heating Input Btu [kW] Rating	41,500 [12.16]	46,000 [13.48]
System Power KW/COP	3.65/3.4	3.89/3.4
Low Temp. Btuh [kW] Rating	24,200 [7.09]	26,600 [7.79]
System Power KW/COP	3.43/2.08	3.57/2.2
HSPF (Btu/Watts-hr)	7.7	7.7
Compressor		
No./Type	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)³		
	76	78
Outdoor Coil—Fin Type		
Tube Type	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	16.32 [1.52]	16.32 [1.52]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]
Refrigerant Control	TX Valves	TX Valves
Indoor Coil—Fin Type		
Tube Type	Louvered	Louvered
Tube Type	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	7.39 [0.69]	7.39 [0.69]
Rows / FPI [FPcm]	2 / 15 [6]	2 / 15 [6]
Refrigerant Control	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type		
	Propeller	Propeller
No. Used/Diameter in. [mm]	1/22 [558.8]	1/22 [558.8]
Drive Type/No. Speeds	Direct/1	Direct/1
CFM [L/s]	3300 [1557]	3000 [1416]
No. Motors/HP	1 at 1/3 HP	1 at 1/3 HP
Motor RPM	1075	1075
Indoor Fan—Type		
	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/10x9 [254x228.6]	1/10x9 [254x228.6]
Drive Type/No. Speeds	Direct/2	Direct/2
No. Motors	1	1
Motor HP	3/4	3/4
Motor RPM	1075	1075
Motor Frame Size	48	48
Filter—Type		
	Field Supplied	Field Supplied
Furnished	No	No
(No.) Size Recommended in. [mm]	(1)1x24x24 [25x610x610]	(1)1x24x24 [25x610x610]
Refrigerant Charge Oz. [g]		
	176 [4990]	183 [5188]
Weights		
Net Weight lbs. [kg]	505 [229]	510 [231]
Ship Weight lbs. [kg]	516 [234]	521 [236]

See Page 11 for Notes.

[] Designates Metric Conversions

NOMINAL SIZES 2-4 TONS [7.03-14.07 kW]

Model TZHC- Series	424JL	430JL	436JL
Cooling Performance¹			CONTINUED →
Gross Cooling Capacity Btu [kW]	25,000 [7.32]	29,800 [8.73]	36,800 [10.78]
EER/SEER ²	11.8/14	12/14	12/14
Nominal CFM/ARI Rated CFM [L/s]	800/850 [378/401]	1000/1050 [472/495]	1200/1250 [566/590]
ARI Net Cooling Capacity Btu [kW]	24,400 [7.15]	29,200 [8.56]	36,000 [10.55]
Net Sensible Capacity Btu [kW]	18,900 [5.54]	23,000 [6.74]	27,000 [7.91]
Net Latent Capacity Btu [kW]	5,500 [1.61]	6,200 [1.82]	9,000 [2.64]
Net System Power kW	2.06	2.43	3
Heating Performance (Heat Pumps)⁴			
Heating Input Btu [kW] Rating	23,800 [6.97]	27,800 [8.15]	33,200 [9.73]
System Power KW/COP	1.94/3.5	2.27/3.6	2.73/3.6
Low Temp. Btuh [kW] Rating	13,800 [4.04]	15,500 [4.54]	18,000 [5.27]
System Power KW/COP	1.78/2.2	2.07/2.2	2.5/2.2
HSPF (Btu/Watts-hr)	8	8	8
Compressor			
No./Type	1/Scroll	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)³	76	76	76
Outdoor Coil—Fin Type	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	14.51 [1.35]	16.32 [1.52]	11.2 [1.04]
Rows / FPI [FPcm]	1 / 22 [9]	1 / 22 [9]	2 / 22 [9]
Refrigerant Control	TX Valves	TX Valves	TX Valves
Indoor Coil—Fin Type	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	5.54 [0.51]	7.39 [0.69]	7.39 [0.69]
Rows / FPI [FPcm]	2 / 15 [6]	2 / 15 [6]	2 / 15 [6]
Refrigerant Control	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/22 [558.8]	1/22 [558.8]	1/22 [558.8]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1
CFM [L/s]	2700 [1274]	2700 [1274]	2700 [1274]
No. Motors/HP	1 at 1/5 HP	1 at 1/5 HP	1 at 1/5 HP
Motor RPM	1075	1075	1075
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/9x7 [228.6x177.8]	1/10x9 [254x228.6]	1/10x9 [254x228.6]
Drive Type/No. Speeds	Direct/2	Direct/3	Direct/3
No. Motors	1	1	1
Motor HP	1/3	1/2	1/2
Motor RPM	1050	1050	1050
Motor Frame Size	48	48	48
Filter—Type	Field Supplied	Field Supplied	Field Supplied
Furnished	No	No	No
(No.) Size Recommended in. [mm]	(1)1x20x20 [25x508x508]	(1)1x24x24 [25x610x610]	(1)1x24x24 [25x610x610]
Refrigerant Charge Oz. [g]	98 [2778]	108 [3062]	146 [4139]
Weights			
Net Weight lbs. [kg]	391 [177]	444 [201]	468 [212]
Ship Weight lbs. [kg]	401 [182]	455 [206]	479 [217]

See Page 11 for Notes.

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GENERAL DATA—TZHC-4 SERIES

NOMINAL SIZES 2-4 TONS [7.03-14.07 kW]

Model TZHC- Series	442JL	448JL
Cooling Performance¹		
Gross Cooling Capacity Btu [kW]	43,500 [12.75]	49,000 [14.36]
EER/SEER ²	11.3/14	11.5/14
Nominal CFM/ARI Rated CFM [L/s]	1400/1400 [661/661]	1600/1600 [755/755]
ARI Net Cooling Capacity Btu [kW]	42,500 [12.45]	47,500 [13.92]
Net Sensible Capacity Btu [kW]	31,500 [9.23]	36,000 [10.55]
Net Latent Capacity Btu [kW]	11,000 [3.22]	11,500 [3.37]
Net System Power kW	3.85	4.26
Heating Performance (Heat Pumps)⁴		
Heating Input Btu [kW] Rating	41,500 [12.16]	46,000 [13.48]
System Power KW/COP	3.65/3.4	3.89/3.45
Low Temp. Btuh [kW] Rating	24,200 [7.09]	26,600 [7.79]
System Power KW/COP	3.43/2.08	3.57/2.2
HSPF (Btu/Watts-hr)	8	8
Compressor		
No./Type	1/Scroll	1/Scroll
Outdoor Sound Rating (dB)³		
	76	78
Outdoor Coil—Fin Type		
Tube Type	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	16.32 [1.52]	16.32 [1.52]
Rows / FPI [FPcm]	2 / 22 [9]	2 / 22 [9]
Refrigerant Control	TX Valves	TX Valves
Indoor Coil—Fin Type		
Tube Type	Louvered	Louvered
Tube Type	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	7.39 [0.69]	7.39 [0.69]
Rows / FPI [FPcm]	2 / 15 [6]	2 / 15 [6]
Refrigerant Control	TX Valves	TX Valves
Drain Connection No./Size in. [mm]	1/1 [25.4]	1/1 [25.4]
Outdoor Fan—Type		
	Propeller	Propeller
No. Used/Diameter in. [mm]	1/22 [558.8]	1/22 [558.8]
Drive Type/No. Speeds	Direct/1	Direct/1
CFM [L/s]	3300 [1557]	3000 [1416]
No. Motors/HP	1 at 1/3 HP	1 at 1/3 HP
Motor RPM	1075	1075
Indoor Fan—Type		
	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/10x9 [254x228.6]	1/10x9 [254x228.6]
Drive Type/No. Speeds	Direct/2	Direct/2
No. Motors	1	1
Motor HP	3/4	3/4
Motor RPM	1075	1075
Motor Frame Size	48	48
Filter—Type		
	Field Supplied	Field Supplied
Furnished	No	No
(No.) Size Recommended in. [mm]	(1)1x24x24 [25x610x610]	(1)1x24x24 [25x610x610]
Refrigerant Charge Oz. [g]		
	176 [4990]	183 [5188]
Weights		
Net Weight lbs. [kg]	505 [229]	510 [231]
Ship Weight lbs. [kg]	516 [234]	521 [236]

See Page 11 for Notes.

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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 in CFM range shown in airflow tables. 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.
4. Heating Performance is rated at 47° F ambient, 70° F entering dry bulb for High Temp rating and 17° F ambient, 70° F entering dry bulb for Low Temp rating. Performance ratings do include the effect of fan motor heat.

SYSTEMS PERFORMANCE—TZHC-3 SERIES

COOLING PERFORMANCE DATA—TZHC-324

		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
		880 [415]	800 [378]	720 [340]	880 [415]	800 [378]	720 [340]	880 [415]	800 [378]	720 [340]	
wbE		.17			.15			.13			
CFM [L/s]		.17			.15			.13			
DR ①		.17			.15			.13			
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	29.4 [8.62]	28.9 [8.47]	28.3 [8.29]	28.1 [8.24]	27.6 [8.09]	27.1 [7.94]	27.1 [7.94]	26.6 [7.80]	26.1 [7.65]
		Sens BTUH [kW]	18.2 [5.33]	17.4 [5.10]	16.6 [4.86]	21.0 [6.15]	20.1 [5.89]	19.1 [5.60]	22.3 [6.54]	21.3 [6.24]	20.3 [5.95]
		Power	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	80 [26.7]	Total BTUH [kW]	29.2 [8.56]	28.6 [8.38]	28.1 [8.24]	27.8 [8.15]	27.3 [8.00]	26.8 [7.85]	26.8 [7.85]	26.4 [7.74]	25.9 [7.59]
		Sens BTUH [kW]	18.0 [5.28]	17.2 [5.04]	16.4 [4.81]	20.8 [6.10]	19.8 [5.80]	18.9 [5.54]	22.1 [6.48]	21.1 [6.18]	20.1 [5.89]
		Power	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	85 [29.4]	Total BTUH [kW]	28.5 [8.35]	28.0 [8.21]	27.5 [8.06]	27.2 [7.97]	26.7 [7.83]	26.2 [7.68]	26.2 [7.68]	25.7 [7.53]	25.2 [7.39]
		Sens BTUH [kW]	17.6 [5.16]	16.8 [4.92]	16.0 [4.69]	20.4 [5.98]	19.5 [5.71]	18.6 [5.45]	21.7 [6.36]	20.7 [6.07]	19.7 [5.77]
		Power	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	90 [32.2]	Total BTUH [kW]	27.5 [8.06]	27.0 [7.91]	26.5 [7.77]	26.1 [7.65]	25.7 [7.53]	25.2 [7.39]	25.2 [7.39]	24.7 [7.24]	24.3 [7.12]
	Sens BTUH [kW]	17.1 [5.01]	16.3 [4.78]	15.6 [4.57]	19.9 [5.83]	19.0 [5.57]	18.1 [5.30]	21.2 [6.21]	20.2 [5.92]	19.3 [5.66]	
	Power	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
95 [35]	Total BTUH [kW]	26.2 [7.68]	25.8 [7.56]	25.3 [7.41]	24.9 [7.30]	24.5 [7.18]	24.0 [7.03]	23.9 [7.00]	23.5 [6.89]	23.1 [6.77]	
	Sens BTUH [kW]	16.5 [4.84]	15.8 [4.63]	15.0 [4.40]	19.3 [5.66]	18.5 [5.42]	17.6 [5.16]	20.6 [6.04]	19.7 [5.77]	18.8 [5.51]	
	Power	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	
100 [37.8]	Total BTUH [kW]	24.9 [7.30]	24.4 [7.15]	24.0 [7.03]	23.5 [6.89]	23.1 [6.77]	22.7 [6.65]	22.5 [6.59]	22.1 [6.48]	21.7 [6.36]	
	Sens BTUH [kW]	15.9 [4.66]	15.2 [4.45]	14.5 [4.25]	18.7 [5.48]	17.9 [5.25]	17.0 [4.98]	20.0 [5.86]	19.1 [5.60]	18.2 [5.33]	
	Power	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
105 [40.6]	Total BTUH [kW]	23.5 [6.89]	23.1 [6.77]	22.7 [6.65]	22.2 [6.51]	21.8 [6.39]	21.4 [6.27]	21.2 [6.21]	20.8 [6.10]	20.4 [5.98]	
	Sens BTUH [kW]	15.2 [4.45]	14.5 [4.25]	13.9 [4.07]	18.0 [5.28]	17.2 [5.04]	16.4 [4.81]	19.3 [5.66]	18.5 [5.42]	17.6 [5.16]	
	Power	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
110 [43.3]	Total BTUH [kW]	22.2 [6.51]	21.8 [6.39]	21.4 [6.27]	20.9 [6.13]	20.5 [6.01]	20.1 [5.89]	19.9 [5.83]	19.5 [5.71]	19.2 [5.63]	
	Sens BTUH [kW]	14.6 [4.28]	14.0 [4.10]	13.3 [3.90]	17.4 [5.10]	16.7 [4.89]	15.9 [4.66]	18.7 [5.48]	17.9 [5.25]	17.0 [4.98]	
	Power	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
115 [46.1]	Total BTUH [kW]	21.1 [6.18]	20.7 [6.07]	20.3 [5.95]	19.8 [5.80]	19.4 [5.69]	19.0 [5.57]	18.8 [5.51]	18.4 [5.39]	18.1 [5.30]	
	Sens BTUH [kW]	14.0 [4.10]	13.4 [3.93]	12.8 [3.75]	16.9 [4.95]	16.1 [4.72]	15.4 [4.51]	18.1 [5.30]	17.3 [5.07]	16.5 [4.84]	
	Power	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	

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 $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

HEATING PERFORMANCE DATA—TZHC-324

		60°F [15.5°C]			70°F [21.1°C]			80°F [26.7°C]			
		880 [415]	800 [378]	720 [340]	880 [415]	800 [378]	720 [340]	880 [415]	800 [378]	720 [340]	
IDB		.17			.15			.13			
CFM [L/s]		.17			.15			.13			
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total BTUH [kW]	8.3 [2.43]	8.3 [2.43]	8.2 [2.40]	7.4 [2.17]	7.4 [2.17]	7.3 [2.14]	6.0 [1.76]	6.0 [1.76]	5.9 [1.73]
		Power	1.4	1.4	1.4	1.6	1.6	1.6	1.8	1.8	1.9
	5 [-15]	Total BTUH [kW]	10.0 [2.93]	9.9 [2.90]	9.8 [2.87]	9.1 [2.67]	9.0 [2.64]	9.0 [2.64]	7.6 [2.23]	7.6 [2.23]	7.5 [2.20]
		Power	1.4	1.4	1.4	1.6	1.6	1.6	1.8	1.8	1.9
	10 [-12.2]	Total BTUH [kW]	11.6 [3.40]	11.5 [3.37]	11.4 [3.34]	10.7 [3.14]	10.6 [3.11]	10.6 [3.11]	9.3 [2.73]	9.2 [2.70]	9.1 [2.67]
		Power	1.4	1.4	1.5	1.6	1.6	1.6	1.8	1.9	1.9
	15 [-9.4]	Total BTUH [kW]	13.2 [3.87]	13.1 [3.84]	13.0 [3.81]	12.3 [3.60]	12.3 [3.60]	12.2 [3.58]	10.9 [3.19]	10.8 [3.17]	10.8 [3.17]
		Power	1.4	1.5	1.5	1.6	1.6	1.7	1.9	1.9	1.9
	20 [-6.7]	Total BTUH [kW]	14.9 [4.37]	14.8 [4.34]	14.7 [4.31]	14.0 [4.10]	13.9 [4.07]	13.8 [4.04]	12.5 [3.66]	12.5 [3.66]	12.4 [3.63]
		Power	1.5	1.5	1.5	1.6	1.7	1.7	1.9	1.9	1.9
25 [-3.9]	Total BTUH [kW]	16.5 [4.84]	16.4 [4.81]	16.3 [4.78]	15.6 [4.57]	15.5 [4.54]	15.4 [4.51]	14.2 [4.16]	14.1 [4.13]	14.0 [4.10]	
	Power	1.5	1.5	1.5	1.7	1.7	1.7	1.9	1.9	2.0	
30 [-1.1]	Total BTUH [kW]	18.1 [5.30]	18.0 [5.28]	17.9 [5.25]	17.2 [5.04]	17.1 [5.01]	17.0 [4.98]	15.8 [4.63]	15.7 [4.60]	15.6 [4.57]	
	Power	1.5	1.5	1.5	1.7	1.7	1.7	1.9	2.0	2.0	
35 [1.7]	Total BTUH [kW]	19.8 [5.80]	19.6 [5.74]	19.5 [5.71]	18.9 [5.54]	18.7 [5.48]	18.6 [5.45]	17.4 [5.10]	17.3 [5.07]	17.2 [5.04]	
	Power	1.5	1.5	1.6	1.7	1.7	1.7	1.9	2.0	2.0	
40 [4.4]	Total BTUH [kW]	21.4 [6.27]	21.3 [6.24]	21.1 [6.18]	20.5 [6.01]	20.4 [5.98]	20.2 [5.92]	19.1 [5.60]	18.9 [5.54]	18.8 [5.51]	
	Power	1.5	1.6	1.6	1.7	1.7	1.8	2.0	2.0	2.0	
45 [7.2]	Total BTUH [kW]	23.0 [6.74]	22.9 [6.71]	22.7 [6.65]	22.1 [6.48]	22.0 [6.45]	21.8 [6.39]	20.7 [6.07]	20.6 [6.04]	20.4 [5.98]	
	Power	1.6	1.6	1.6	1.7	1.8	1.8	2.0	2.0	2.0	
50 [10]	Total BTUH [kW]	24.7 [7.24]	24.5 [7.18]	24.3 [7.12]	23.8 [6.98]	23.6 [6.92]	23.4 [6.86]	22.3 [6.54]	22.2 [6.51]	22.0 [6.45]	
	Power	1.6	1.6	1.6	1.8	1.8	1.8	2.0	2.0	2.1	

IDB—Indoor air dry bulb

[] Designates Metric Conversions

SYSTEMS PERFORMANCE—TZHC-3 SERIES

COOLING PERFORMANCE DATA—TZHC-330

		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
		CFM [L/s]	1100 [519]	1000 [472]	900 [425]	1100 [519]	1000 [472]	900 [425]	1100 [519]	1000 [472]	900 [425]
		DR ①	.02	.18	.16	.02	.18	.16	.02	.18	.16
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	36.1 [10.58]	35.4 [10.37]	34.8 [10.20]	34.1 [9.99]	33.4 [9.79]	32.8 [9.61]	32.7 [9.58]	32.1 [9.41]	31.5 [9.23]
		Sens BTUH [kW]	22.0 [6.45]	21.0 [6.15]	20.0 [5.86]	25.3 [7.41]	24.2 [7.09]	23.0 [6.74]	26.7 [7.83]	25.5 [7.47]	24.3 [7.12]
		Power	1.9	1.9	1.8	1.8	1.8	1.8	1.9	1.9	1.8
	80 [26.7]	Total BTUH [kW]	34.9 [10.23]	34.3 [10.05]	33.6 [9.85]	32.9 [9.64]	32.3 [9.47]	31.7 [9.29]	31.5 [9.23]	31.0 [9.09]	30.4 [8.91]
		Sens BTUH [kW]	21.4 [6.27]	20.4 [5.98]	19.5 [5.71]	24.7 [7.24]	23.6 [6.92]	22.5 [6.59]	26.1 [7.65]	25.0 [7.33]	23.8 [6.98]
		Power	2.0	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9
	85 [29.4]	Total BTUH [kW]	33.8 [9.91]	33.2 [9.73]	32.6 [9.55]	31.8 [9.32]	31.2 [9.14]	30.6 [8.97]	30.4 [8.91]	29.8 [8.73]	29.3 [8.59]
		Sens BTUH [kW]	20.8 [6.10]	19.9 [5.83]	19.0 [5.57]	24.1 [7.06]	23.0 [6.74]	22.0 [6.45]	25.5 [7.47]	24.4 [7.15]	23.3 [6.83]
		Power	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.0	2.0
	90 [32.2]	Total BTUH [kW]	32.6 [9.55]	32.0 [9.38]	31.5 [9.23]	30.6 [8.97]	30.1 [8.82]	29.5 [8.65]	29.3 [8.59]	28.7 [8.41]	28.2 [8.26]
Sens BTUH [kW]		20.2 [5.92]	19.3 [5.66]	18.4 [5.39]	23.5 [6.89]	22.5 [6.59]	21.4 [6.27]	25.0 [7.33]	23.9 [7.00]	22.7 [6.65]	
Power		2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.1	2.1	
95 [35]	Total BTUH [kW]	31.5 [9.23]	30.9 [9.06]	30.4 [8.91]	29.5 [8.65]	29.0 [8.50]	28.4 [8.32]	28.1 [8.24]	27.6 [8.09]	27.1 [7.94]	
	Sens BTUH [kW]	19.7 [5.77]	18.8 [5.51]	17.9 [5.25]	23.0 [6.74]	22.0 [6.45]	20.9 [6.13]	24.4 [7.15]	23.3 [6.83]	22.2 [6.51]	
	Power	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
100 [37.8]	Total BTUH [kW]	30.3 [8.88]	29.8 [8.73]	29.3 [8.59]	28.3 [8.29]	27.8 [8.15]	27.3 [8.00]	27.0 [7.91]	26.5 [7.77]	26.0 [7.62]	
	Sens BTUH [kW]	19.2 [5.63]	18.3 [5.36]	17.4 [5.10]	22.4 [6.56]	21.4 [6.27]	20.4 [5.98]	23.9 [7.00]	22.8 [6.68]	21.7 [6.36]	
	Power	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
105 [40.6]	Total BTUH [kW]	29.2 [8.56]	28.6 [8.38]	28.1 [8.24]	27.2 [7.97]	26.7 [7.83]	26.2 [7.68]	25.8 [7.56]	25.3 [7.41]	24.9 [7.30]	
	Sens BTUH [kW]	18.6 [5.45]	17.8 [5.22]	16.9 [4.95]	21.9 [6.42]	20.9 [6.13]	19.9 [5.83]	23.3 [6.83]	22.3 [6.54]	21.3 [6.24]	
	Power	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	
110 [43.3]	Total BTUH [kW]	27.9 [8.18]	27.4 [8.03]	26.9 [7.88]	25.9 [7.59]	25.5 [7.47]	25.0 [7.33]	24.6 [7.21]	24.1 [7.06]	23.7 [6.95]	
	Sens BTUH [kW]	18.1 [5.30]	17.3 [5.07]	16.5 [4.84]	21.4 [6.27]	20.4 [5.98]	19.5 [5.71]	22.8 [6.68]	21.8 [6.39]	20.8 [6.10]	
	Power	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
115 [46.1]	Total BTUH [kW]	26.6 [7.80]	26.1 [7.65]	25.7 [7.53]	24.6 [7.21]	24.2 [7.09]	23.7 [6.95]	23.3 [6.83]	22.8 [6.68]	22.4 [6.56]	
	Sens BTUH [kW]	17.5 [5.13]	16.7 [4.89]	15.9 [4.66]	20.8 [6.10]	19.9 [5.83]	19.0 [5.57]	22.2 [6.51]	21.2 [6.21]	20.3 [5.95]	
	Power	2.6	2.6	2.6	2.6	2.6	2.5	2.6	2.6	2.6	

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 $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

HEATING PERFORMANCE DATA—TZHC-330

		IDB	60°F [15.5°C]			70°F [21.1°C]			80°F [26.7°C]		
		CFM [L/s]	1100 [519]	1000 [472]	900 [425]	1100 [519]	1000 [472]	900 [425]	1100 [519]	1000 [472]	900 [425]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total BTUH [kW]	9.3 [2.73]	9.3 [2.73]	9.2 [2.70]	7.8 [2.29]	7.7 [2.26]	7.7 [2.26]	6.4 [1.88]	6.3 [1.85]	6.3 [1.85]
		Power	1.6	1.6	1.6	1.8	1.8	1.8	2.0	2.0	2.1
	5 [-15]	Total BTUH [kW]	11.3 [3.31]	11.2 [3.28]	11.1 [3.25]	9.7 [2.84]	9.6 [2.81]	9.6 [2.81]	8.3 [2.43]	8.2 [2.40]	8.2 [2.40]
		Power	1.6	1.6	1.6	1.8	1.8	1.9	2.0	2.1	2.1
	10 [-12.2]	Total BTUH [kW]	13.2 [3.87]	13.1 [3.84]	13.0 [3.81]	11.6 [3.40]	11.5 [3.37]	11.5 [3.37]	10.2 [2.99]	10.1 [2.96]	10.1 [2.96]
		Power	1.6	1.7	1.7	1.9	1.9	1.9	2.1	2.1	2.1
	15 [-9.4]	Total BTUH [kW]	15.1 [4.43]	15.0 [4.40]	14.9 [4.37]	13.5 [3.96]	13.5 [3.96]	13.4 [3.93]	12.1 [3.55]	12.0 [3.52]	12.0 [3.52]
		Power	1.7	1.7	1.7	1.9	1.9	1.9	2.1	2.1	2.2
	20 [-6.7]	Total BTUH [kW]	17.0 [4.98]	16.9 [4.95]	16.8 [4.92]	15.5 [4.54]	15.4 [4.51]	15.3 [4.48]	14.0 [4.10]	13.9 [4.07]	13.8 [4.04]
		Power	1.7	1.7	1.7	1.9	1.9	2.0	2.1	2.2	2.2
25 [-3.9]	Total BTUH [kW]	18.9 [5.54]	18.8 [5.51]	18.7 [5.48]	17.4 [5.10]	17.3 [5.07]	17.1 [5.01]	16.0 [4.69]	15.9 [4.66]	15.7 [4.60]	
	Power	1.7	1.8	1.8	1.9	2.0	2.0	2.2	2.2	2.2	
30 [-1.1]	Total BTUH [kW]	20.9 [6.13]	20.7 [6.07]	20.6 [6.04]	19.3 [5.66]	19.2 [5.63]	19.0 [5.57]	17.9 [5.25]	17.8 [5.22]	17.6 [5.16]	
	Power	1.8	1.8	1.8	2.0	2.0	2.0	2.2	2.2	2.3	
35 [1.7]	Total BTUH [kW]	22.8 [6.68]	22.6 [6.62]	22.5 [6.59]	21.2 [6.21]	21.1 [6.18]	20.9 [6.13]	19.8 [5.80]	19.7 [5.77]	19.5 [5.71]	
	Power	1.8	1.8	1.8	2.0	2.0	2.1	2.2	2.3	2.3	
40 [4.4]	Total BTUH [kW]	24.7 [7.24]	24.5 [7.18]	24.4 [7.15]	23.2 [6.80]	23.0 [6.74]	22.8 [6.68]	21.7 [6.36]	21.6 [6.33]	21.4 [6.27]	
	Power	1.8	1.8	1.9	2.0	2.1	2.1	2.3	2.3	2.3	
45 [7.2]	Total BTUH [kW]	26.6 [7.80]	26.4 [7.74]	26.3 [7.71]	25.1 [7.36]	24.9 [7.30]	24.7 [7.24]	23.7 [6.95]	23.5 [6.89]	23.3 [6.83]	
	Power	1.9	1.9	1.9	2.1	2.1	2.1	2.3	2.3	2.3	
50 [10]	Total BTUH [kW]	28.6 [8.38]	28.4 [8.32]	28.2 [8.26]	27.0 [7.91]	26.8 [7.85]	26.6 [7.80]	25.6 [7.50]	25.4 [7.44]	25.2 [7.39]	
	Power	1.9	1.9	1.9	2.1	2.1	2.1	2.3	2.4	2.4	

IDB—Indoor air dry bulb

[] Designates Metric Conversions

SYSTEMS PERFORMANCE—TZHC-3 SERIES

COOLING PERFORMANCE DATA—TZHC-336

		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
wbE		1380 [651]	1250 [590]	1120 [528]	1380 [651]	1250 [590]	1120 [528]	1380 [651]	1250 [590]	1120 [528]	
CFM [L/s]											
DR ①		.21	.19	.17	.21	.19	.17	.21	.19	.17	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	44.5 [13.04] 27.2 [7.97] 2.3	43.7 [12.81] 26.0 [7.62] 2.3	42.9 [12.57] 24.8 [7.27] 2.2	42.5 [12.46] 31.3 [9.17] 2.3	41.7 [12.22] 29.9 [8.76] 2.2	40.9 [11.99] 28.5 [8.35] 2.2	41.3 [12.10] 33.7 [9.88] 2.2	40.6 [11.90] 32.2 [9.44] 2.2	39.8 [11.66] 30.7 [9.00] 2.2
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	43.4 [12.72] 26.6 [7.80] 2.4	42.6 [12.48] 25.4 [7.44] 2.4	41.8 [12.25] 24.2 [7.09] 2.4	41.3 [12.10] 30.7 [9.00] 2.4	40.6 [11.90] 29.3 [8.59] 2.4	39.9 [11.69] 27.9 [8.18] 2.4	40.2 [11.78] 33.0 [9.67] 2.4	39.5 [11.58] 31.6 [9.26] 2.4	38.8 [11.37] 30.1 [8.82] 2.3
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	42.1 [12.34] 26.0 [7.62] 2.6	41.3 [12.10] 24.8 [7.27] 2.5	40.6 [11.90] 23.6 [6.92] 2.5	40.0 [11.72] 30.0 [8.79] 2.5	39.3 [11.52] 28.7 [8.41] 2.5	38.6 [11.31] 27.3 [8.00] 2.5	38.9 [11.40] 32.4 [9.50] 2.5	38.2 [11.20] 30.9 [9.06] 2.5	37.5 [10.99] 29.5 [8.65] 2.5
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	40.6 [11.90] 25.3 [7.41] 2.7	39.9 [11.69] 24.1 [7.06] 2.7	39.1 [11.46] 23.0 [6.74] 2.7	38.5 [11.28] 29.3 [8.59] 2.7	37.9 [11.11] 28.0 [8.21] 2.7	37.2 [10.90] 26.7 [7.83] 2.6	37.4 [10.96] 31.7 [9.29] 2.7	36.7 [10.76] 30.3 [8.88] 2.6	36.1 [10.58] 28.8 [8.44] 2.6
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	39.0 [11.43] 24.5 [7.18] 2.9	38.3 [11.22] 23.4 [6.86] 2.8	37.6 [11.02] 22.3 [6.54] 2.8	36.9 [10.81] 28.6 [8.38] 2.8	36.3 [10.64] 27.3 [8.00] 2.8	35.6 [10.43] 26.0 [7.62] 2.8	35.8 [10.49] 30.9 [9.06] 2.8	35.2 [10.32] 29.6 [8.67] 2.8	34.5 [10.11] 28.2 [8.26] 2.8
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	37.3 [10.93] 23.7 [6.95] 3.0	36.7 [10.76] 22.7 [6.65] 3.0	36.0 [10.55] 21.6 [6.33] 2.9	35.3 [10.35] 27.8 [8.15] 3.0	34.6 [10.14] 26.5 [7.77] 2.9	34.0 [9.96] 25.3 [7.41] 2.9	34.1 [9.99] 30.2 [8.85] 3.0	33.5 [9.82] 28.8 [8.44] 2.9	32.9 [9.64] 27.5 [8.06] 2.9
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	35.6 [10.43] 22.9 [6.71] 3.1	35.0 [10.26] 21.9 [6.42] 3.1	34.4 [10.08] 20.9 [6.13] 3.1	33.6 [9.85] 27.0 [7.91] 3.1	33.0 [9.67] 25.8 [7.56] 3.1	32.4 [9.50] 24.6 [7.21] 3.1	32.4 [9.50] 29.4 [8.62] 3.1	31.9 [9.35] 28.1 [8.24] 3.1	31.3 [9.17] 26.7 [7.83] 3.0
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	34.0 [9.96] 22.1 [6.48] 3.3	33.4 [9.79] 21.1 [6.18] 3.3	32.7 [9.58] 20.1 [5.89] 3.2	31.9 [9.35] 26.2 [7.68] 3.3	31.3 [9.17] 25.0 [7.33] 3.2	30.8 [9.03] 23.8 [6.98] 3.2	30.8 [9.03] 28.5 [8.35] 3.2	30.2 [8.85] 27.3 [8.00] 3.2	29.7 [8.70] 26.0 [7.62] 3.2
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	32.4 [9.50] 21.3 [6.24] 3.4	31.8 [9.32] 20.3 [5.95] 3.4	31.2 [9.14] 19.4 [5.69] 3.4	30.3 [8.88] 25.3 [7.41] 3.4	29.8 [8.73] 24.2 [7.09] 3.4	29.2 [8.56] 23.1 [6.77] 3.3	29.2 [8.56] 27.7 [8.12] 3.4	28.6 [8.38] 26.5 [7.77] 3.4	28.1 [8.24] 25.2 [7.39] 3.3

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 $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

HEATING PERFORMANCE DATA—TZHC-336

		60°F [15.5°C]			70°F [21.1°C]			80°F [26.7°C]			
IDB		1380 [651]	1250 [590]	1120 [528]	1380 [651]	1250 [590]	1120 [528]	1380 [651]	1250 [590]	1120 [528]	
CFM [L/s]											
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total BTUH [kW] Power	11.9 [3.49] 1.8	11.9 [3.49] 1.8	11.8 [3.46] 1.9	9.9 [2.90] 2.1	9.8 [2.87] 2.1	9.8 [2.87] 2.1	8.5 [2.49] 2.4	8.5 [2.49] 2.4	8.4 [2.46] 2.4
	5 [-15]	Total BTUH [kW] Power	14.4 [4.22] 1.9	14.3 [4.19] 1.9	14.2 [4.16] 1.9	12.4 [3.63] 2.1	12.3 [3.60] 2.1	12.2 [3.58] 2.2	11.0 [3.22] 2.4	10.9 [3.19] 2.4	10.8 [3.17] 2.5
	10 [-12.2]	Total BTUH [kW] Power	16.8 [4.92] 1.9	16.7 [4.89] 1.9	16.6 [4.86] 1.9	14.8 [4.34] 2.2	14.7 [4.31] 2.2	14.6 [4.28] 2.2	13.4 [3.93] 2.4	13.3 [3.90] 2.5	13.2 [3.87] 2.5
	15 [-9.4]	Total BTUH [kW] Power	19.3 [5.66] 1.9	19.2 [5.63] 2.0	19.0 [5.57] 2.0	17.3 [5.07] 2.2	17.1 [5.01] 2.2	17.0 [4.98] 2.2	15.9 [4.66] 2.5	15.8 [4.63] 2.5	15.7 [4.60] 2.5
	20 [-6.7]	Total BTUH [kW] Power	21.7 [6.36] 2.0	21.6 [6.33] 2.0	21.4 [6.27] 2.0	19.7 [5.77] 2.2	19.6 [5.74] 2.3	19.4 [5.69] 2.3	18.3 [5.36] 2.5	18.2 [5.33] 2.6	18.1 [5.30] 2.6
	25 [-3.9]	Total BTUH [kW] Power	24.2 [7.09] 2.0	24.0 [7.03] 2.0	23.9 [7.00] 2.1	22.2 [6.51] 2.3	22.0 [6.45] 2.3	21.8 [6.39] 2.3	20.8 [6.10] 2.6	20.6 [6.04] 2.6	20.5 [6.01] 2.6
	30 [-1.1]	Total BTUH [kW] Power	26.7 [7.83] 2.1	26.5 [7.77] 2.1	26.3 [7.71] 2.1	24.6 [7.21] 2.3	24.4 [7.15] 2.3	24.3 [7.12] 2.4	23.2 [6.80] 2.6	23.1 [6.77] 2.6	22.9 [6.71] 2.7
	35 [1.7]	Total BTUH [kW] Power	29.1 [8.53] 2.1	28.9 [8.47] 2.1	28.7 [8.41] 2.2	27.1 [7.94] 2.4	26.9 [7.88] 2.4	26.7 [7.83] 2.4	25.7 [7.53] 2.6	25.5 [7.47] 2.7	25.3 [7.41] 2.7
	40 [4.4]	Total BTUH [kW] Power	31.6 [9.26] 2.1	31.3 [9.17] 2.2	31.1 [9.11] 2.2	29.5 [8.65] 2.4	29.3 [8.59] 2.4	29.1 [8.53] 2.5	28.1 [8.24] 2.7	27.9 [8.18] 2.7	27.7 [8.12] 2.8
	45 [7.2]	Total BTUH [kW] Power	34.0 [9.96] 2.2	33.8 [9.91] 2.2	33.5 [9.82] 2.2	32.0 [9.38] 2.4	31.7 [9.29] 2.5	31.5 [9.23] 2.5	30.6 [8.97] 2.7	30.4 [8.91] 2.8	30.2 [8.85] 2.8
50 [10]	Total BTUH [kW] Power	36.5 [10.70] 2.2	36.2 [10.61] 2.2	35.9 [10.52] 2.3	34.4 [10.08] 2.5	34.2 [10.02] 2.5	33.9 [9.94] 2.5	33.0 [9.67] 2.8	32.8 [9.61] 2.8	32.6 [9.55] 2.8	

IDB—Indoor air dry bulb

[] Designates Metric Conversions

SYSTEMS PERFORMANCE—TZHC-3 SERIES

COOLING PERFORMANCE DATA—TZHC-342

		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
wbE		1540 [727]	1400 [661]	1260 [595]	1540 [727]	1400 [661]	1260 [595]	1540 [727]	1400 [661]	1260 [595]	
CFM [L/s]		1540 [727]	1400 [661]	1260 [595]	1540 [727]	1400 [661]	1260 [595]	1540 [727]	1400 [661]	1260 [595]	
DR ①		.17	.15	.14	.17	.15	.14	.17	.15	.14	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	53.9 [15.80] 32.2 [9.44] 2.9	52.9 [15.50] 30.7 [9.00] 2.9	51.9 [15.21] 29.3 [8.59] 2.9	50.9 [14.92] 37.1 [10.87] 2.9	50.0 [14.65] 35.5 [10.40] 2.9	49.1 [14.39] 33.8 [9.91] 2.9	48.1 [14.10] 39.3 [11.52] 2.9	47.3 [13.86] 37.5 [10.99] 2.9	46.4 [13.60] 35.8 [10.49] 2.9
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	52.0 [15.24] 31.3 [9.17] 3.1	51.0 [14.95] 29.9 [8.76] 3.1	50.1 [14.68] 28.5 [8.35] 3.1	49.0 [14.36] 36.3 [10.64] 3.1	48.1 [14.10] 34.7 [10.17] 3.1	47.2 [13.83] 33.0 [9.67] 3.1	46.2 [13.54] 38.4 [11.25] 3.1	45.4 [13.31] 36.7 [10.76] 3.1	44.6 [13.07] 35.0 [10.26] 3.0
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	50.3 [14.74] 30.5 [8.94] 3.3	49.4 [14.48] 29.2 [8.56] 3.3	48.5 [14.21] 27.8 [8.15] 3.2	47.3 [13.86] 35.5 [10.40] 3.3	46.5 [13.63] 33.9 [9.94] 3.2	45.6 [13.36] 32.3 [9.47] 3.2	44.6 [13.07] 37.6 [11.02] 3.3	43.8 [12.84] 35.9 [10.52] 3.2	43.0 [12.60] 34.3 [10.05] 3.2
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	48.7 [14.27] 29.8 [8.73] 3.4	47.9 [14.04] 28.4 [8.32] 3.4	47.0 [13.77] 27.1 [7.94] 3.4	45.8 [13.42] 34.7 [10.17] 3.4	44.9 [13.16] 33.2 [9.73] 3.4	44.1 [12.92] 31.6 [9.26] 3.4	43.0 [12.60] 36.8 [10.79] 3.4	42.2 [12.37] 35.2 [10.32] 3.4	41.5 [12.16] 33.6 [9.85] 3.4
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	47.2 [13.83] 29.0 [8.50] 3.6	46.4 [13.60] 27.7 [8.12] 3.6	45.5 [13.33] 26.4 [7.74] 3.6	44.2 [12.95] 34.0 [9.96] 3.6	43.4 [12.72] 32.4 [9.50] 3.6	42.7 [12.51] 30.9 [9.06] 3.6	41.5 [12.16] 36.1 [10.58] 3.6	40.7 [11.93] 34.5 [10.11] 3.6	40.0 [11.72] 32.9 [9.64] 3.5
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	45.6 [13.36] 28.2 [8.26] 3.8	44.8 [13.13] 26.9 [7.88] 3.8	44.0 [12.90] 25.7 [7.53] 3.7	42.6 [12.48] 33.2 [9.73] 3.8	41.9 [12.28] 31.7 [9.29] 3.7	41.1 [12.05] 30.2 [8.85] 3.7	39.9 [11.69] 35.3 [10.35] 3.8	39.2 [11.49] 33.7 [9.88] 3.7	38.5 [11.28] 32.1 [9.41] 3.7
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	43.8 [12.84] 27.4 [8.03] 4.0	43.0 [12.60] 26.1 [7.65] 3.9	42.3 [12.40] 24.9 [7.30] 3.9	40.8 [11.96] 32.3 [9.47] 3.9	40.1 [11.75] 30.9 [9.06] 3.9	39.4 [11.55] 29.4 [8.62] 3.9	38.1 [11.17] 34.4 [10.08] 3.9	37.4 [10.96] 32.9 [9.64] 3.9	36.7 [10.76] 31.4 [9.20] 3.9
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	41.7 [12.22] 26.4 [7.74] 4.1	41.0 [12.02] 25.2 [7.39] 4.1	40.2 [11.78] 24.1 [7.06] 4.1	38.8 [11.37] 31.4 [9.20] 4.1	38.1 [11.17] 30.0 [8.79] 4.1	37.4 [10.96] 28.6 [8.38] 4.0	36.0 [10.55] 33.5 [9.82] 4.1	35.4 [10.37] 32.0 [9.38] 4.1	34.7 [10.17] 30.5 [8.94] 4.0
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	39.3 [11.52] 25.4 [7.44] 4.3	38.6 [11.31] 24.2 [7.09] 4.3	37.9 [11.11] 23.1 [6.77] 4.2	36.3 [10.64] 30.3 [8.88] 4.3	35.6 [10.43] 29.0 [8.50] 4.2	35.0 [10.26] 27.6 [8.09] 4.2	33.5 [9.82] 32.4 [9.50] 4.3	32.9 [9.64] 31.0 [9.09] 4.2	32.3 [9.47] 29.5 [8.65] 4.2

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 $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

HEATING PERFORMANCE DATA—TZHC-342

		IDB									
		60°F [15.5°C]			70°F [21.1°C]			80°F [26.7°C]			
CFM [L/s]		1540 [727]	1400 [661]	1260 [595]	1540 [727]	1400 [661]	1260 [595]	1540 [727]	1400 [661]	1260 [595]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total BTUH [kW] Power	13.9 [4.07] 2.6	13.8 [4.04] 2.6	13.7 [4.02] 2.6	12.9 [3.78] 3.0	12.8 [3.75] 3.0	12.8 [3.75] 3.1	11.2 [3.28] 3.3	11.1 [3.25] 3.4	11.1 [3.25] 3.4
	5 [-15]	Total BTUH [kW] Power	16.9 [4.95] 2.6	16.8 [4.92] 2.6	16.7 [4.89] 2.7	16.0 [4.69] 3.0	15.8 [4.63] 3.1	15.7 [4.60] 3.1	14.2 [4.16] 3.4	14.1 [4.13] 3.4	14.0 [4.10] 3.5
	10 [-12.2]	Total BTUH [kW] Power	20.0 [5.86] 2.6	19.8 [5.80] 2.7	19.7 [5.77] 2.7	19.0 [5.57] 3.1	18.8 [5.51] 3.1	18.7 [5.48] 3.1	17.3 [5.07] 3.4	17.1 [5.01] 3.5	17.0 [4.98] 3.5
	15 [-9.4]	Total BTUH [kW] Power	23.0 [6.74] 2.7	22.8 [6.68] 2.7	22.6 [6.62] 2.7	22.0 [6.45] 3.1	21.8 [6.39] 3.1	21.7 [6.36] 3.2	20.3 [5.95] 3.5	20.1 [5.89] 3.5	20.0 [5.86] 3.5
	20 [-6.7]	Total BTUH [kW] Power	26.0 [7.62] 2.7	25.8 [7.56] 2.7	25.6 [7.50] 2.8	25.0 [7.33] 3.1	24.8 [7.27] 3.2	24.7 [7.24] 3.2	23.3 [6.83] 3.5	23.1 [6.77] 3.5	23.0 [6.74] 3.6
	25 [-3.9]	Total BTUH [kW] Power	29.0 [8.50] 2.8	28.8 [8.44] 2.8	28.6 [8.38] 2.8	28.0 [8.21] 3.2	27.8 [8.15] 3.2	27.6 [8.09] 3.3	26.3 [7.71] 3.5	26.1 [7.65] 3.6	25.9 [7.59] 3.6
	30 [-1.1]	Total BTUH [kW] Power	32.0 [9.38] 2.8	31.8 [9.32] 2.8	31.6 [9.26] 2.9	31.1 [9.11] 3.2	30.8 [9.03] 3.2	30.6 [8.97] 3.3	29.3 [8.59] 3.6	29.1 [8.53] 3.6	28.9 [8.47] 3.7
	35 [1.7]	Total BTUH [kW] Power	35.1 [10.29] 2.8	34.8 [10.20] 2.9	34.6 [10.14] 2.9	34.1 [9.99] 3.2	33.8 [9.91] 3.3	33.6 [9.85] 3.3	32.4 [9.50] 3.6	32.1 [9.41] 3.6	31.9 [9.35] 3.7
	40 [4.4]	Total BTUH [kW] Power	38.1 [11.17] 2.9	37.8 [11.08] 2.9	37.5 [10.99] 2.9	37.1 [10.87] 3.3	36.8 [10.79] 3.3	36.6 [10.73] 3.4	35.4 [10.37] 3.6	35.1 [10.29] 3.7	34.9 [10.23] 3.7
	45 [7.2]	Total BTUH [kW] Power	41.1 [12.05] 2.9	40.8 [11.96] 2.9	40.5 [11.87] 3.0	40.1 [11.75] 3.3	39.8 [11.66] 3.4	39.6 [11.61] 3.4	38.4 [11.25] 3.7	38.1 [11.17] 3.7	37.9 [11.11] 3.8
50 [10]	Total BTUH [kW] Power	44.1 [12.92] 2.9	43.8 [12.84] 3.0	43.5 [12.75] 3.0	43.1 [12.63] 3.4	42.8 [12.54] 3.4	42.5 [12.46] 3.4	41.4 [12.13] 3.7	41.1 [12.05] 3.8	40.8 [11.96] 3.8	

IDB—Indoor air dry bulb

[] Designates Metric Conversions

SYSTEMS PERFORMANCE—TZHC-3 SERIES

COOLING PERFORMANCE DATA—TZHC-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]		1760 [831]	1600 [755]	1440 [680]	1760 [831]	1600 [755]	1440 [680]	1760 [831]	1600 [755]	1440 [680]	
DR ①		.15	.13	.11	.15	.13	.11	.15	.13	.11	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	60.4 [17.70] 37.4 [10.96] 3.2	59.3 [17.38] 35.7 [10.46] 3.2	58.3 [17.09] 34.1 [9.99] 3.2	57.1 [16.73] 42.7 [12.51] 3.2	56.1 [16.44] 40.8 [11.96] 3.2	55.0 [16.12] 38.9 [11.40] 3.1	54.5 [15.97] 45.0 [13.19] 3.2	53.5 [15.68] 43.0 [12.60] 3.1	52.5 [15.39] 41.0 [12.02] 3.1
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	58.8 [17.23] 36.6 [10.73] 3.4	57.8 [16.94] 35.0 [10.26] 3.4	56.7 [16.62] 33.3 [9.76] 3.3	55.5 [16.27] 41.9 [12.28] 3.4	54.5 [15.97] 40.0 [11.72] 3.4	53.5 [15.68] 38.2 [11.20] 3.3	52.9 [15.50] 44.2 [12.95] 3.4	51.9 [15.21] 42.2 [12.37] 3.3	51.0 [14.95] 40.3 [11.81] 3.3
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	57.0 [16.71] 35.7 [10.46] 3.6	56.0 [16.41] 34.1 [9.99] 3.6	55.0 [16.12] 32.5 [9.52] 3.5	53.7 [15.74] 41.0 [12.02] 3.6	52.7 [15.44] 39.2 [11.49] 3.5	51.8 [15.18] 37.3 [10.93] 3.5	51.1 [14.98] 43.3 [12.69] 3.5	50.2 [14.71] 41.4 [12.13] 3.5	49.3 [14.45] 39.4 [11.55] 3.5
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	55.1 [16.15] 34.8 [10.20] 3.8	54.1 [15.86] 33.2 [9.73] 3.7	53.1 [15.56] 31.7 [9.29] 3.7	51.7 [15.15] 40.1 [11.75] 3.8	50.8 [14.89] 38.3 [11.22] 3.7	49.9 [14.62] 36.5 [10.70] 3.7	49.1 [14.39] 42.4 [12.43] 3.7	48.3 [14.16] 40.5 [11.87] 3.7	47.4 [13.89] 38.6 [11.31] 3.7
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	53.1 [15.56] 33.8 [9.91] 4.0	52.1 [15.27] 32.3 [9.47] 3.9	51.2 [15.01] 30.8 [9.03] 3.9	49.8 [14.59] 39.1 [11.46] 3.9	48.9 [14.33] 37.4 [10.96] 3.9	48.0 [14.07] 35.6 [10.43] 3.9	47.2 [13.83] 41.4 [12.13] 3.9	46.3 [13.57] 39.6 [11.61] 3.9	45.5 [13.33] 37.7 [11.05] 3.9
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	51.1 [14.98] 32.9 [9.64] 4.2	50.2 [14.71] 31.4 [9.20] 4.1	49.3 [14.45] 29.9 [8.76] 4.1	47.8 [14.01] 38.2 [11.20] 4.1	46.9 [13.75] 36.5 [10.70] 4.1	46.1 [13.51] 34.8 [10.20] 4.1	45.2 [13.25] 40.5 [11.87] 4.1	44.4 [13.01] 38.7 [11.34] 4.1	43.6 [12.78] 36.9 [10.81] 4.0
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	49.3 [14.45] 32.0 [9.38] 4.3	48.4 [14.18] 30.6 [8.97] 4.3	47.5 [13.92] 29.2 [8.56] 4.3	46.0 [13.48] 37.3 [10.93] 4.3	45.1 [13.22] 35.7 [10.46] 4.3	44.3 [12.98] 34.0 [9.96] 4.2	43.4 [12.72] 39.6 [11.61] 4.3	42.6 [12.48] 37.9 [11.11] 4.3	41.8 [12.25] 36.1 [10.58] 4.2
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	47.6 [13.95] 31.3 [9.17] 4.5	46.8 [13.72] 29.9 [8.76] 4.5	45.9 [13.45] 28.5 [8.35] 4.5	44.3 [12.98] 36.6 [10.73] 4.5	43.5 [12.75] 34.9 [10.23] 4.5	42.7 [12.51] 33.3 [9.76] 4.4	41.7 [12.22] 38.9 [11.40] 4.5	41.0 [12.02] 37.1 [10.87] 4.4	40.2 [11.78] 35.4 [10.37] 4.4
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	46.3 [13.57] 30.7 [9.00] 4.7	45.5 [13.33] 29.3 [8.59] 4.7	44.6 [13.07] 27.9 [8.18] 4.6	43.0 [12.60] 36.0 [10.55] 4.7	42.2 [12.37] 34.4 [10.08] 4.7	41.4 [12.13] 32.8 [9.61] 4.6	40.4 [11.84] 38.3 [11.22] 4.7	39.6 [11.61] 36.6 [10.73] 4.6	38.9 [11.40] 34.8 [10.20] 4.6

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 $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

HEATING PERFORMANCE DATA—TZHC-348

		60°F [15.5°C]			70°F [21.1°C]			80°F [26.7°C]			
IDB		1760 [831]	1600 [755]	1440 [680]	1760 [831]	1600 [755]	1440 [680]	1760 [831]	1600 [755]	1440 [680]	
CFM [L/s]											
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total BTUH [kW] Power	16.9 [4.95] 2.6	16.8 [4.92] 2.6	16.7 [4.89] 2.6	15.4 [4.51] 3.0	15.3 [4.48] 3.0	15.2 [4.45] 3.0	14.4 [4.22] 3.4	14.3 [4.19] 3.5	14.2 [4.16] 3.5
	5 [-15]	Total BTUH [kW] Power	20.1 [5.89] 2.6	19.9 [5.83] 2.6	19.8 [5.80] 2.7	18.6 [5.45] 3.0	18.5 [5.42] 3.0	18.3 [5.36] 3.1	17.6 [5.16] 3.5	17.5 [5.13] 3.5	17.3 [5.07] 3.5
	10 [-12.2]	Total BTUH [kW] Power	23.2 [6.80] 2.7	23.1 [6.77] 2.7	22.9 [6.71] 2.7	21.8 [6.39] 3.1	21.6 [6.33] 3.1	21.5 [6.30] 3.1	20.7 [6.07] 3.5	20.6 [6.04] 3.6	20.4 [5.98] 3.6
	15 [-9.4]	Total BTUH [kW] Power	26.4 [7.74] 2.7	26.2 [7.68] 2.8	26.0 [7.62] 2.8	24.9 [7.30] 3.1	24.7 [7.24] 3.2	24.6 [7.21] 3.2	23.9 [7.00] 3.6	23.7 [6.95] 3.6	23.6 [6.92] 3.7
	20 [-6.7]	Total BTUH [kW] Power	29.5 [8.65] 2.8	29.3 [8.59] 2.8	29.1 [8.53] 2.8	28.1 [8.24] 3.2	27.9 [8.18] 3.2	27.7 [8.12] 3.2	27.1 [7.94] 3.6	26.9 [7.88] 3.7	26.7 [7.83] 3.7
	25 [-3.9]	Total BTUH [kW] Power	32.7 [9.58] 2.8	32.5 [9.52] 2.9	32.2 [9.44] 2.9	31.2 [9.14] 3.2	31.0 [9.09] 3.3	30.8 [9.03] 3.3	30.2 [8.85] 3.7	30.0 [8.79] 3.7	29.8 [8.73] 3.8
	30 [-1.1]	Total BTUH [kW] Power	35.9 [10.52] 2.9	35.6 [10.43] 2.9	35.4 [10.37] 2.9	34.4 [10.08] 3.3	34.1 [9.99] 3.3	33.9 [9.94] 3.4	33.4 [9.79] 3.7	33.1 [9.70] 3.8	32.9 [9.64] 3.8
	35 [1.7]	Total BTUH [kW] Power	39.0 [11.43] 2.9	38.7 [11.34] 3.0	38.5 [11.28] 3.0	37.5 [10.99] 3.3	37.3 [10.93] 3.4	37.0 [10.84] 3.4	36.5 [10.70] 3.8	36.3 [10.64] 3.8	36.0 [10.55] 3.9
	40 [4.4]	Total BTUH [kW] Power	42.2 [12.37] 3.0	41.9 [12.28] 3.0	41.6 [12.19] 3.1	40.7 [11.93] 3.4	40.4 [11.84] 3.4	40.1 [11.75] 3.5	39.7 [11.63] 3.8	39.4 [11.55] 3.9	39.1 [11.46] 3.9
	45 [7.2]	Total BTUH [kW] Power	45.3 [13.28] 3.0	45.0 [13.19] 3.1	44.7 [13.10] 3.1	43.9 [12.87] 3.4	43.6 [12.78] 3.5	43.2 [12.66] 3.5	42.8 [12.54] 3.9	42.5 [12.46] 3.9	42.2 [12.37] 4.0
50 [10]	Total BTUH [kW] Power	48.5 [14.21] 3.1	48.1 [14.10] 3.1	47.8 [14.01] 3.2	47.0 [13.77] 3.5	46.7 [13.69] 3.5	46.4 [13.60] 3.6	46.0 [13.48] 3.9	45.7 [13.39] 4.0	45.3 [13.28] 4.0	

IDB—Indoor air dry bulb

[] Designates Metric Conversions

SYSTEMS PERFORMANCE—TZHC-4 SERIES

COOLING PERFORMANCE DATA—TZHC-424

		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]	940 [444]	850 [401]	760 [359]	940 [444]	850 [401]	760 [359]	940 [444]	850 [401]
		DR ①	.15	.13	.11	.15	.13	.11	.15	.13	.11
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	29.9 [8.76]	29.4 [8.62]	28.8 [8.44]	28.6 [8.38]	28.0 [8.21]	27.5 [8.06]	27.6 [8.09]	27.1 [7.94]	26.6 [7.80]
		Sens BTUH [kW]	19.2 [5.63]	18.4 [5.39]	17.5 [5.13]	22.0 [6.45]	21.0 [6.15]	20.1 [5.89]	23.3 [6.83]	22.3 [6.54]	21.2 [6.21]
		Power	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	80 [26.7]	Total BTUH [kW]	29.7 [8.70]	29.1 [8.53]	28.6 [8.38]	28.3 [8.29]	27.8 [8.15]	27.3 [8.00]	27.3 [8.00]	26.8 [7.85]	26.4 [7.74]
		Sens BTUH [kW]	19.0 [5.57]	18.1 [5.30]	17.3 [5.07]	21.8 [6.39]	20.8 [6.10]	19.9 [5.83]	23.1 [6.77]	22.1 [6.48]	21.0 [6.15]
		Power	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	85 [29.4]	Total BTUH [kW]	29.0 [8.50]	28.5 [8.35]	27.9 [8.18]	27.6 [8.09]	27.2 [7.97]	26.7 [7.83]	26.7 [7.83]	26.2 [7.68]	25.7 [7.53]
		Sens BTUH [kW]	18.6 [5.45]	17.8 [5.22]	16.9 [4.95]	21.4 [6.27]	20.5 [6.01]	19.5 [5.71]	22.7 [6.65]	21.7 [6.36]	20.7 [6.07]
		Power	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	90 [32.2]	Total BTUH [kW]	28.0 [8.21]	27.5 [8.06]	27.0 [7.91]	26.6 [7.80]	26.2 [7.68]	25.7 [7.53]	25.6 [7.50]	25.2 [7.39]	24.7 [7.24]
Sens BTUH [kW]		18.1 [5.30]	17.3 [5.07]	16.5 [4.84]	20.9 [6.13]	20.0 [5.86]	19.1 [5.60]	22.2 [6.51]	21.2 [6.21]	20.2 [5.92]	
Power		1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
95 [35]	Total BTUH [kW]	26.7 [7.83]	26.3 [7.71]	25.8 [7.56]	25.4 [7.44]	24.9 [7.30]	24.5 [7.18]	24.4 [7.15]	24.0 [7.03]	23.5 [6.89]	
	Sens BTUH [kW]	17.5 [5.13]	16.7 [4.89]	16.0 [4.69]	20.4 [5.98]	19.4 [5.69]	18.5 [5.42]	21.6 [6.33]	20.7 [6.07]	19.7 [5.77]	
	Power	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	
100 [37.8]	Total BTUH [kW]	25.4 [7.44]	24.9 [7.30]	24.5 [7.18]	24.0 [7.03]	23.6 [6.92]	23.2 [6.80]	23.0 [6.74]	22.6 [6.62]	22.2 [6.51]	
	Sens BTUH [kW]	16.9 [4.95]	16.1 [4.72]	15.4 [4.51]	19.7 [5.77]	18.8 [5.51]	18.0 [5.28]	21.0 [6.15]	20.1 [5.89]	19.1 [5.60]	
	Power	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
105 [40.6]	Total BTUH [kW]	24.0 [7.03]	23.6 [6.92]	23.1 [6.77]	22.6 [6.62]	22.2 [6.51]	21.8 [6.39]	21.7 [6.36]	21.3 [6.24]	20.9 [6.13]	
	Sens BTUH [kW]	16.3 [4.78]	15.5 [4.54]	14.8 [4.34]	19.1 [5.60]	18.2 [5.33]	17.4 [5.10]	20.4 [5.98]	19.5 [5.71]	18.5 [5.42]	
	Power	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	
110 [43.3]	Total BTUH [kW]	22.7 [6.65]	22.3 [6.54]	21.9 [6.42]	21.4 [6.27]	21.0 [6.15]	20.6 [6.04]	20.4 [5.98]	20.0 [5.86]	19.6 [5.74]	
	Sens BTUH [kW]	15.6 [4.57]	14.9 [4.37]	14.2 [4.16]	18.5 [5.42]	17.6 [5.16]	16.8 [4.92]	19.7 [5.77]	18.9 [5.54]	18.0 [5.28]	
	Power	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	
115 [46.1]	Total BTUH [kW]	21.6 [6.33]	21.2 [6.21]	20.8 [6.10]	20.2 [5.92]	19.9 [5.83]	19.5 [5.71]	19.3 [5.66]	18.9 [5.54]	18.6 [5.45]	
	Sens BTUH [kW]	15.1 [4.43]	14.4 [4.22]	13.7 [4.02]	17.9 [5.25]	17.1 [5.01]	16.3 [4.78]	19.2 [5.63]	18.3 [5.36]	17.5 [5.13]	
	Power	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	

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 $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

HEATING PERFORMANCE DATA—TZHC-424

		IDB	60°F [15.5°C]			70°F [21.1°C]			80°F [26.7°C]		
			CFM [L/s]	940 [444]	850 [401]	760 [359]	940 [444]	850 [401]	760 [359]	940 [444]	850 [401]
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total BTUH [kW]	8.9 [2.61]	8.8 [2.58]	8.7 [2.55]	8.0 [2.34]	7.9 [2.32]	7.9 [2.32]	6.5 [1.90]	6.5 [1.90]	6.5 [1.90]
		Power	1.4	1.4	1.4	1.6	1.6	1.6	1.8	1.8	1.9
	5 [-15]	Total BTUH [kW]	10.5 [3.08]	10.4 [3.05]	10.4 [3.05]	9.6 [2.81]	9.6 [2.81]	9.5 [2.78]	8.2 [2.40]	8.1 [2.37]	8.1 [2.37]
		Power	1.4	1.4	1.5	1.6	1.6	1.6	1.8	1.9	1.9
	10 [-12.2]	Total BTUH [kW]	12.1 [3.55]	12.1 [3.55]	12.0 [3.52]	11.3 [3.31]	11.2 [3.28]	11.1 [3.25]	9.8 [2.87]	9.8 [2.87]	9.7 [2.84]
		Power	1.4	1.5	1.5	1.6	1.6	1.7	1.9	1.9	1.9
	15 [-9.4]	Total BTUH [kW]	13.8 [4.04]	13.7 [4.02]	13.6 [3.99]	12.9 [3.78]	12.8 [3.75]	12.7 [3.72]	11.5 [3.37]	11.4 [3.34]	11.3 [3.31]
		Power	1.5	1.5	1.5	1.6	1.7	1.7	1.9	1.9	1.9
	20 [-6.7]	Total BTUH [kW]	15.4 [4.51]	15.3 [4.48]	15.2 [4.45]	14.5 [4.25]	14.4 [4.22]	14.3 [4.19]	13.1 [3.84]	13.0 [3.81]	12.9 [3.78]
		Power	1.5	1.5	1.5	1.7	1.7	1.7	1.9	1.9	1.9
25 [-3.9]	Total BTUH [kW]	17.1 [5.01]	16.9 [4.95]	16.8 [4.92]	16.2 [4.75]	16.1 [4.72]	15.9 [4.66]	14.7 [4.31]	14.6 [4.28]	14.5 [4.25]	
	Power	1.5	1.5	1.5	1.7	1.7	1.7	1.9	1.9	2.0	
30 [-1.1]	Total BTUH [kW]	18.7 [5.48]	18.6 [5.45]	18.4 [5.39]	17.8 [5.22]	17.7 [5.19]	17.6 [5.16]	16.4 [4.81]	16.3 [4.78]	16.1 [4.72]	
	Power	1.5	1.5	1.6	1.7	1.7	1.7	1.9	2.0	2.0	
35 [1.7]	Total BTUH [kW]	20.3 [5.95]	20.2 [5.92]	20.0 [5.86]	19.4 [5.69]	19.3 [5.66]	19.2 [5.63]	18.0 [5.28]	17.9 [5.25]	17.8 [5.22]	
	Power	1.5	1.6	1.6	1.7	1.7	1.8	2.0	2.0	2.0	
40 [4.4]	Total BTUH [kW]	22.0 [6.45]	21.8 [6.39]	21.7 [6.36]	21.1 [6.18]	20.9 [6.13]	20.8 [6.10]	19.6 [5.74]	19.5 [5.71]	19.4 [5.69]	
	Power	1.6	1.6	1.6	1.7	1.8	1.8	2.0	2.0	2.0	
45 [7.2]	Total BTUH [kW]	23.6 [6.92]	23.4 [6.86]	23.3 [6.83]	22.7 [6.65]	22.6 [6.62]	22.4 [6.56]	21.3 [6.24]	21.1 [6.18]	21.0 [6.15]	
	Power	1.6	1.6	1.6	1.8	1.8	1.8	2.0	2.0	2.1	
50 [10]	Total BTUH [kW]	25.2 [7.39]	25.1 [7.36]	24.9 [7.30]	24.4 [7.15]	24.2 [7.09]	24.0 [7.03]	22.9 [6.71]	22.8 [6.68]	22.6 [6.62]	
	Power	1.6	1.6	1.6	1.8	1.8	1.8	2.0	2.0	2.1	

IDB—Indoor air dry bulb

[] Designates Metric Conversions

SYSTEMS PERFORMANCE—TZHC-4 SERIES

COOLING PERFORMANCE DATA—TZHC-430

		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
		1160 [547]	1050 [496]	940 [444]	1160 [547]	1050 [496]	940 [444]	1160 [547]	1050 [496]	940 [444]	
		CFM [L/s]									
		DR ①	.15	.13	.11	.15	.13	.11	.15	.13	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	36.9 [10.81] 23.7 [6.95] 1.9	36.2 [10.61] 22.6 [6.62] 1.9	35.5 [10.40] 21.5 [6.30] 1.9	34.9 [10.23] 26.9 [7.88] 1.9	34.2 [10.02] 25.7 [7.53] 1.9	33.6 [9.85] 24.5 [7.18] 1.9	33.5 [9.82] 28.4 [8.32] 1.9	32.9 [9.64] 27.1 [7.94] 1.9	32.3 [9.47] 25.8 [7.56] 1.9
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	35.7 [10.46] 23.1 [6.77] 2.0	35.1 [10.29] 22.0 [6.45] 2.0	34.4 [10.08] 21.0 [6.15] 2.0	33.7 [9.88] 26.3 [7.71] 2.0	33.1 [9.70] 25.2 [7.39] 2.0	32.5 [9.52] 24.0 [7.03] 2.0	32.3 [9.47] 27.8 [8.15] 2.0	31.8 [9.32] 26.5 [7.77] 2.0	31.2 [9.14] 25.3 [7.41] 2.0
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	34.6 [10.14] 22.5 [6.59] 2.1	33.9 [9.94] 21.5 [6.30] 2.1	33.3 [9.76] 20.5 [6.01] 2.1	32.6 [9.55] 25.8 [7.56] 2.1	32.0 [9.38] 24.6 [7.21] 2.1	31.4 [9.20] 23.5 [6.89] 2.1	31.2 [9.14] 27.2 [7.97] 2.1	30.6 [8.97] 26.0 [7.62] 2.1	30.1 [8.82] 24.8 [7.27] 2.1
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	33.4 [9.79] 21.9 [6.42] 2.2	32.8 [9.61] 20.9 [6.13] 2.2	32.2 [9.44] 20.0 [5.86] 2.2	31.4 [9.20] 25.2 [7.39] 2.2	30.9 [9.06] 24.1 [7.06] 2.2	30.3 [8.88] 23.0 [6.74] 2.2	30.1 [8.82] 26.6 [7.80] 2.2	29.5 [8.65] 25.4 [7.44] 2.2	29.0 [8.50] 24.3 [7.12] 2.2
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	32.3 [9.47] 21.4 [6.27] 2.3	31.7 [9.29] 20.4 [5.98] 2.3	31.1 [9.11] 19.5 [5.71] 2.3	30.3 [8.88] 24.7 [7.24] 2.3	29.8 [8.73] 23.6 [6.92] 2.3	29.2 [8.56] 22.5 [6.59] 2.3	28.9 [8.47] 26.1 [7.65] 2.3	28.4 [8.32] 24.9 [7.30] 2.3	27.9 [8.18] 23.8 [6.98] 2.3
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	31.1 [9.11] 20.8 [6.10] 2.4	30.6 [8.97] 19.9 [5.83] 2.4	30.0 [8.79] 19.0 [5.57] 2.4	29.1 [8.53] 24.1 [7.06] 2.4	28.6 [8.38] 23.0 [6.74] 2.4	28.1 [8.24] 22.0 [6.45] 2.3	27.8 [8.15] 25.5 [7.47] 2.4	27.3 [8.00] 24.4 [7.15] 2.4	26.8 [7.85] 23.3 [6.83] 2.4
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	30.0 [8.79] 20.3 [5.95] 2.5	29.4 [8.62] 19.4 [5.69] 2.5	28.9 [8.47] 18.5 [5.42] 2.5	28.0 [8.21] 23.6 [6.92] 2.5	27.5 [8.06] 22.5 [6.59] 2.5	27.0 [7.91] 21.5 [6.30] 2.4	26.6 [7.80] 25.0 [7.33] 2.5	26.1 [7.65] 23.9 [7.00] 2.5	25.6 [7.50] 22.8 [6.68] 2.5
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	28.7 [8.41] 19.7 [5.77] 2.6	28.2 [8.26] 18.8 [5.51] 2.6	27.7 [8.12] 18.0 [5.28] 2.6	26.7 [7.83] 23.0 [6.74] 2.6	26.2 [7.68] 22.0 [6.45] 2.6	25.8 [7.56] 21.0 [6.15] 2.5	25.4 [7.44] 24.4 [7.15] 2.6	24.9 [7.30] 23.4 [6.86] 2.6	24.5 [7.18] 22.3 [6.54] 2.6
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	27.4 [8.03] 19.2 [5.63] 2.7	26.9 [7.88] 18.3 [5.36] 2.7	26.4 [7.74] 17.5 [5.13] 2.7	25.4 [7.44] 22.5 [6.59] 2.7	25.0 [7.33] 21.5 [6.30] 2.6	24.5 [7.18] 20.5 [6.01] 2.6	24.1 [7.06] 23.9 [7.00] 2.7	23.6 [6.92] 22.8 [6.68] 2.7	23.2 [6.80] 21.8 [6.39] 2.7

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 $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

HEATING PERFORMANCE DATA—TZHC-430

		IDB									
		60°F [15.5°C]			70°F [21.1°C]			80°F [26.7°C]			
		1160 [547]	1050 [496]	940 [444]	1160 [547]	1050 [496]	940 [444]	1160 [547]	1050 [496]	940 [444]	
		CFM [L/s]									
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total BTUH [kW] Power	9.5 [2.78] 1.6	9.5 [2.78] 1.6	9.4 [2.75] 1.6	8.0 [2.34] 1.8	7.9 [2.32] 1.8	7.9 [2.32] 1.8	6.6 [1.93] 2.0	6.5 [1.90] 2.0	6.5 [1.90] 2.1
	5 [-15]	Total BTUH [kW] Power	11.5 [3.37] 1.6	11.4 [3.34] 1.6	11.3 [3.31] 1.6	19.9 [2.90] 1.8	19.8 [2.87] 1.8	19.8 [2.87] 1.9	18.5 [2.49] 2.0	18.4 [2.46] 2.1	18.4 [2.46] 2.1
	10 [-12.2]	Total BTUH [kW] Power	13.4 [3.93] 1.6	13.3 [3.90] 1.7	13.2 [3.87] 1.7	11.8 [3.46] 1.9	11.8 [3.46] 1.9	11.7 [3.43] 1.9	10.4 [3.05] 2.1	10.3 [3.02] 2.1	10.3 [3.02] 2.1
	15 [-9.4]	Total BTUH [kW] Power	15.3 [4.48] 1.7	15.2 [4.45] 1.7	15.1 [4.43] 1.7	13.8 [4.04] 1.9	13.7 [4.02] 1.9	13.6 [3.99] 1.9	12.3 [3.60] 2.1	12.3 [3.60] 2.1	12.2 [3.58] 2.2
	20 [-6.7]	Total BTUH [kW] Power	17.2 [5.04] 1.7	17.1 [5.01] 1.7	17.0 [4.98] 1.7	15.7 [4.60] 1.9	15.6 [4.57] 1.9	15.5 [4.54] 2.0	14.3 [4.19] 2.1	14.2 [4.16] 2.2	14.1 [4.13] 2.2
	25 [-3.9]	Total BTUH [kW] Power	19.2 [5.63] 1.7	19.0 [5.57] 1.8	18.9 [5.54] 1.8	17.6 [5.16] 1.9	17.5 [5.13] 2.0	17.4 [5.10] 2.0	16.2 [4.75] 2.2	16.1 [4.72] 2.2	16.0 [4.69] 2.2
	30 [-1.1]	Total BTUH [kW] Power	21.1 [6.18] 1.8	20.9 [6.13] 1.8	20.8 [6.10] 1.8	19.5 [5.71] 2.0	19.4 [5.69] 2.0	19.3 [5.66] 2.0	18.1 [5.30] 2.2	18.0 [5.28] 2.2	17.9 [5.25] 2.3
	35 [1.7]	Total BTUH [kW] Power	23.0 [6.74] 1.8	22.8 [6.68] 1.8	22.7 [6.65] 1.8	21.5 [6.30] 2.0	21.3 [6.24] 2.0	21.2 [6.21] 2.1	20.0 [5.86] 2.2	19.9 [5.83] 2.3	19.7 [5.77] 2.3
	40 [4.4]	Total BTUH [kW] Power	24.9 [7.30] 1.8	24.8 [7.27] 1.8	24.6 [7.21] 1.9	23.4 [6.86] 2.0	23.2 [6.80] 2.1	23.0 [6.74] 2.1	22.0 [6.45] 2.3	21.8 [6.39] 2.3	21.6 [6.33] 2.3
	45 [7.2]	Total BTUH [kW] Power	26.9 [7.88] 1.9	26.7 [7.83] 1.9	26.5 [7.77] 1.9	25.3 [7.41] 2.1	25.1 [7.36] 2.1	24.9 [7.30] 2.1	23.9 [7.00] 2.3	23.7 [6.95] 2.3	23.5 [6.89] 2.4
50 [10]	Total BTUH [kW] Power	28.8 [8.44] 1.9	28.6 [8.38] 1.9	28.4 [8.32] 1.9	27.2 [7.97] 2.1	27.0 [7.91] 2.1	26.8 [7.85] 2.2	25.8 [7.56] 2.3	25.6 [7.50] 2.4	25.4 [7.44] 2.4	

IDB—Indoor air dry bulb

[] Designates Metric Conversions

SYSTEMS PERFORMANCE—TZHC-4 SERIES

COOLING PERFORMANCE DATA—TZHC-436

		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
wbE		1380 [651]	1250 [590]	1120 [528]	1380 [651]	1250 [590]	1120 [528]	1380 [651]	1250 [590]	1120 [528]	
CFM [L/s]											
DR ①		.21	.19	.17	.21	.19	.17	.21	.19	.17	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	45.0 [13.19]	44.2 [12.95]	43.4 [12.72]	42.9 [12.57]	42.2 [12.37]	41.4 [12.13]	41.8 [12.25]	41.0 [12.02]	40.3 [11.81]
		Sens BTUH [kW]	27.7 [8.12]	26.5 [7.77]	25.3 [7.41]	31.8 [9.32]	30.4 [8.91]	28.9 [8.47]	34.2 [10.02]	32.6 [9.55]	31.1 [9.11]
		Power	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
	80 [26.7]	Total BTUH [kW]	43.9 [12.87]	43.1 [12.63]	42.3 [12.40]	41.8 [12.25]	41.1 [12.05]	40.3 [11.81]	40.7 [11.93]	39.9 [11.69]	39.2 [11.49]
		Sens BTUH [kW]	27.1 [7.94]	25.9 [7.59]	24.7 [7.24]	31.2 [9.14]	29.8 [8.73]	28.4 [8.32]	33.5 [9.82]	32.0 [9.38]	30.5 [8.94]
		Power	2.4	2.4	2.4	2.4	2.4	2.3	2.4	2.3	2.3
	85 [29.4]	Total BTUH [kW]	42.6 [12.48]	41.8 [12.25]	41.0 [12.02]	40.5 [11.87]	39.8 [11.66]	39.1 [11.46]	39.4 [11.55]	38.7 [11.34]	37.9 [11.11]
		Sens BTUH [kW]	26.5 [7.77]	25.3 [7.41]	24.1 [7.06]	30.5 [8.94]	29.1 [8.53]	27.8 [8.15]	32.9 [9.64]	31.4 [9.20]	29.9 [8.76]
		Power	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	90 [32.2]	Total BTUH [kW]	41.1 [12.05]	40.3 [11.81]	39.6 [11.61]	39.0 [11.43]	38.3 [11.22]	37.6 [11.02]	37.9 [11.11]	37.2 [10.90]	36.5 [10.70]
Sens BTUH [kW]		25.7 [7.53]	24.6 [7.21]	23.5 [6.89]	29.8 [8.73]	28.5 [8.35]	27.1 [7.94]	32.2 [9.44]	30.7 [9.00]	29.3 [8.59]	
Power		2.7	2.7	2.6	2.7	2.6	2.6	2.6	2.6	2.6	
95 [35]	Total BTUH [kW]	39.5 [11.58]	38.8 [11.37]	38.1 [11.17]	37.4 [10.96]	36.8 [10.79]	36.1 [10.58]	36.3 [10.64]	35.6 [10.43]	35.0 [10.26]	
	Sens BTUH [kW]	25.0 [7.33]	23.9 [7.00]	22.8 [6.68]	29.1 [8.53]	27.8 [8.15]	26.5 [7.77]	31.4 [9.20]	30.0 [8.79]	28.6 [8.38]	
	Power	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.7	
100 [37.8]	Total BTUH [kW]	37.8 [11.08]	37.1 [10.87]	36.5 [10.70]	35.8 [10.49]	35.1 [10.29]	34.5 [10.11]	34.6 [10.14]	34.0 [9.96]	33.4 [9.79]	
	Sens BTUH [kW]	24.2 [7.09]	23.2 [6.80]	22.1 [6.48]	28.3 [8.29]	27.0 [7.91]	25.8 [7.56]	30.7 [9.00]	29.3 [8.59]	27.9 [8.18]	
	Power	3.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	
105 [40.6]	Total BTUH [kW]	36.1 [10.58]	35.5 [10.40]	34.8 [10.20]	34.1 [9.99]	33.5 [9.82]	32.8 [9.61]	32.9 [9.64]	32.3 [9.47]	31.7 [9.29]	
	Sens BTUH [kW]	23.4 [6.86]	22.4 [6.56]	21.3 [6.24]	27.5 [8.06]	26.3 [7.71]	25.0 [7.33]	29.9 [8.76]	28.5 [8.35]	27.2 [7.97]	
	Power	3.1	3.1	3.1	3.1	3.1	3.0	3.1	3.0	3.0	
110 [43.3]	Total BTUH [kW]	34.4 [10.08]	33.8 [9.91]	33.2 [9.73]	32.4 [9.50]	31.8 [9.32]	31.2 [9.14]	31.2 [9.14]	30.7 [9.00]	30.1 [8.82]	
	Sens BTUH [kW]	22.6 [6.62]	21.6 [6.33]	20.6 [6.04]	26.7 [7.83]	25.5 [7.47]	24.3 [7.12]	29.0 [8.50]	27.7 [8.12]	26.4 [7.74]	
	Power	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	
115 [46.1]	Total BTUH [kW]	32.8 [9.61]	32.2 [9.44]	31.7 [9.29]	30.8 [9.03]	30.2 [8.85]	29.7 [8.70]	29.6 [8.67]	29.1 [8.53]	28.6 [8.38]	
	Sens BTUH [kW]	21.8 [6.39]	20.8 [6.10]	19.8 [5.80]	25.8 [7.56]	24.7 [7.24]	23.5 [6.89]	28.2 [8.26]	26.9 [7.88]	25.7 [7.53]	
	Power	3.4	3.4	3.3	3.4	3.3	3.3	3.4	3.3	3.3	

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 x CFM x (1 – DR) x (dbE – 80)].

HEATING PERFORMANCE DATA—TZHC-436

		60°F [15.5°C]			70°F [21.1°C]			80°F [26.7°C]			
		1380 [651]	1250 [590]	1120 [528]	1380 [651]	1250 [590]	1120 [528]	1380 [651]	1250 [590]	1120 [528]	
IDB											
CFM [L/s]											
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total BTUH [kW]	11.7 [3.43]	11.6 [3.40]	11.5 [3.37]	9.6 [2.81]	9.6 [2.81]	9.5 [2.78]	8.3 [2.43]	8.2 [2.40]	8.1 [2.37]
		Power	1.8	1.9	1.9	2.1	2.1	2.1	2.4	2.4	2.4
	5 [-15]	Total BTUH [kW]	14.1 [4.13]	14.0 [4.10]	13.9 [4.07]	12.1 [3.55]	12.0 [3.52]	11.9 [3.49]	10.7 [3.14]	10.6 [3.11]	10.6 [3.11]
		Power	1.9	1.9	1.9	2.1	2.2	2.2	2.4	2.5	2.5
	10 [-12.2]	Total BTUH [kW]	16.6 [4.86]	16.5 [4.84]	16.3 [4.78]	14.5 [4.25]	14.4 [4.22]	14.3 [4.19]	13.2 [3.87]	13.1 [3.84]	13.0 [3.81]
		Power	1.9	1.9	2.0	2.2	2.2	2.2	2.5	2.5	2.5
	15 [-9.4]	Total BTUH [kW]	19.0 [5.57]	18.9 [5.54]	18.8 [5.51]	17.0 [4.98]	16.9 [4.95]	16.7 [4.89]	15.6 [4.57]	15.5 [4.54]	15.4 [4.51]
		Power	2.0	2.0	2.0	2.2	2.2	2.3	2.5	2.5	2.6
	20 [-6.7]	Total BTUH [kW]	21.5 [6.30]	21.3 [6.24]	21.2 [6.21]	19.4 [5.69]	19.3 [5.66]	19.2 [5.63]	18.1 [5.30]	17.9 [5.25]	17.8 [5.22]
		Power	2.0	2.0	2.1	2.3	2.3	2.3	2.5	2.6	2.6
25 [-3.9]	Total BTUH [kW]	23.9 [7.00]	23.8 [6.98]	23.6 [6.92]	21.9 [6.42]	21.7 [6.36]	21.6 [6.33]	20.5 [6.01]	20.4 [5.98]	20.2 [5.92]	
	Power	2.0	2.1	2.1	2.3	2.3	2.4	2.6	2.6	2.7	
30 [-1.1]	Total BTUH [kW]	26.4 [7.74]	26.2 [7.68]	26.0 [7.62]	24.3 [7.12]	24.2 [7.09]	24.0 [7.03]	23.0 [6.74]	22.8 [6.68]	22.6 [6.62]	
	Power	2.1	2.1	2.1	2.3	2.4	2.4	2.6	2.7	2.7	
35 [1.7]	Total BTUH [kW]	28.8 [8.44]	28.6 [8.38]	28.4 [8.32]	26.8 [7.85]	26.6 [7.80]	26.4 [7.74]	25.4 [7.44]	25.2 [7.39]	25.1 [7.36]	
	Power	2.1	2.1	2.2	2.4	2.4	2.4	2.7	2.7	2.7	
40 [4.4]	Total BTUH [kW]	31.3 [9.17]	31.1 [9.11]	30.8 [9.03]	29.2 [8.56]	29.0 [8.50]	28.8 [8.44]	27.9 [8.18]	27.7 [8.12]	27.5 [8.06]	
	Power	2.2	2.2	2.2	2.4	2.4	2.5	2.7	2.7	2.8	
45 [7.2]	Total BTUH [kW]	33.7 [9.88]	33.5 [9.82]	33.3 [9.76]	31.7 [9.29]	31.5 [9.23]	31.2 [9.14]	30.3 [8.88]	30.1 [8.82]	29.9 [8.76]	
	Power	2.2	2.2	2.3	2.5	2.5	2.5	2.8	2.8	2.8	
50 [10]	Total BTUH [kW]	36.2 [10.61]	35.9 [10.52]	35.7 [10.46]	34.1 [9.99]	33.9 [9.94]	33.7 [9.88]	32.8 [9.61]	32.5 [9.52]	32.3 [9.47]	
	Power	2.2	2.3	2.3	2.5	2.5	2.6	2.8	2.8	2.9	

IDB—Indoor air dry bulb

[] Designates Metric Conversions

SYSTEMS PERFORMANCE—TZHC-4 SERIES

COOLING PERFORMANCE DATA—TZHC-442

		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
wbE		1540 [727]	1400 [661]	1260 [595]	1540 [727]	1400 [661]	1260 [595]	1540 [727]	1400 [661]	1260 [595]	
CFM [L/s]		1540 [727]	1400 [661]	1260 [595]	1540 [727]	1400 [661]	1260 [595]	1540 [727]	1400 [661]	1260 [595]	
DR ①		.17	.15	.14	.17	.15	.14	.17	.15	.14	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	53.9 [5.80] 32.2 [9.44] 2.9	52.9 [15.50] 30.7 [9.00] 2.9	51.9 [15.21] 29.3 [8.59] 2.9	50.9 [14.92] 37.1 [10.87] 2.9	50.0 [14.65] 35.5 [10.40] 2.9	49.1 [14.39] 33.8 [9.91] 2.9	48.1 [14.10] 39.3 [11.52] 2.9	47.3 [13.86] 37.5 [10.99] 2.9	46.4 [13.60] 35.8 [10.49] 2.9
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	52.0 [15.24] 31.3 [9.17] 3.1	51.0 [14.95] 29.9 [8.76] 3.1	50.1 [14.68] 28.5 [8.35] 3.1	49.0 [14.36] 36.3 [10.64] 3.1	48.1 [14.10] 34.7 [10.17] 3.1	47.2 [13.83] 33.0 [9.67] 3.0	46.2 [13.54] 38.4 [11.25] 3.1	45.4 [13.31] 36.7 [10.76] 3.1	44.6 [13.07] 35.0 [10.26] 3.0
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	50.3 [14.74] 30.5 [8.94] 3.3	49.4 [14.48] 29.2 [8.56] 3.2	48.5 [14.21] 27.8 [8.15] 3.2	47.3 [13.86] 35.5 [10.40] 3.3	46.5 [13.63] 33.9 [9.94] 3.2	45.6 [13.36] 32.3 [9.47] 3.2	44.6 [13.07] 37.6 [11.02] 3.2	43.8 [12.84] 35.9 [10.52] 3.2	43.0 [12.60] 34.3 [10.05] 3.2
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	48.7 [14.27] 29.8 [8.73] 3.4	47.9 [14.04] 28.4 [8.32] 3.4	47.0 [13.77] 27.1 [7.94] 3.4	45.8 [13.42] 34.7 [10.17] 3.4	44.9 [13.16] 33.2 [9.73] 3.4	44.1 [12.92] 31.6 [9.26] 3.4	43.0 [12.60] 36.8 [10.79] 3.4	42.2 [12.37] 35.2 [10.32] 3.4	41.5 [12.16] 33.6 [9.85] 3.4
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	47.2 [13.83] 29.0 [8.50] 3.6	46.4 [13.60] 27.7 [8.12] 3.6	45.5 [13.33] 26.4 [7.74] 3.5	44.2 [12.95] 34.0 [9.96] 3.6	43.4 [12.72] 32.4 [9.50] 3.6	42.7 [12.51] 30.9 [9.06] 3.5	41.5 [12.16] 36.1 [10.58] 3.6	40.7 [11.93] 34.5 [10.11] 3.6	40.0 [11.72] 32.9 [9.64] 3.5
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	45.6 [13.36] 28.2 [8.26] 3.8	44.8 [13.13] 26.9 [7.88] 3.7	44.0 [12.90] 25.7 [7.53] 3.7	42.6 [12.48] 33.2 [9.73] 3.8	41.9 [12.28] 31.7 [9.29] 3.7	41.1 [12.05] 30.2 [8.85] 3.7	39.9 [11.69] 35.3 [10.35] 3.7	39.2 [11.49] 33.7 [9.88] 3.7	38.5 [11.28] 32.1 [9.41] 3.7
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	43.8 [12.84] 27.4 [8.03] 3.9	43.0 [12.60] 26.1 [7.65] 3.9	42.3 [12.40] 24.9 [7.30] 3.9	40.8 [11.96] 32.3 [9.47] 3.9	40.1 [11.75] 30.9 [9.06] 3.9	39.4 [11.55] 29.4 [8.62] 3.9	38.1 [11.17] 34.4 [10.08] 3.9	37.4 [10.96] 32.9 [9.64] 3.9	36.7 [10.76] 31.4 [9.20] 3.9
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	41.7 [12.22] 26.4 [7.74] 4.1	41.0 [12.02] 25.2 [7.39] 4.1	40.2 [11.78] 24.1 [7.06] 4.0	38.8 [11.37] 31.4 [9.20] 4.1	38.1 [11.17] 30.0 [8.79] 4.1	37.4 [10.96] 28.6 [8.38] 4.0	36.0 [10.55] 33.5 [9.82] 4.1	35.4 [10.37] 32.0 [9.38] 4.1	34.7 [10.17] 30.5 [8.94] 4.0
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	39.3 [11.52] 25.4 [7.44] 4.3	38.6 [11.31] 24.2 [7.09] 4.2	37.9 [11.11] 23.1 [6.77] 4.2	36.3 [10.64] 30.3 [8.88] 4.3	35.6 [10.43] 29.0 [8.50] 4.2	35.0 [10.26] 27.6 [8.09] 4.2	33.5 [9.82] 32.4 [9.50] 4.3	32.9 [9.64] 31.0 [9.09] 4.2	32.3 [9.47] 29.5 [8.65] 4.2

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 $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

HEATING PERFORMANCE DATA—TZHC-442

		60°F [15.5°C]			70°F [21.1°C]			80°F [26.7°C]			
IDB		1540 [727]	1400 [661]	1260 [595]	1540 [727]	1400 [661]	1260 [595]	1540 [727]	1400 [661]	1260 [595]	
CFM [L/s]		1540 [727]	1400 [661]	1260 [595]	1540 [727]	1400 [661]	1260 [595]	1540 [727]	1400 [661]	1260 [595]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total BTUH [kW] Power	13.9 [4.07] 2.6	13.8 [4.04] 2.6	13.7 [4.02] 2.6	12.9 [3.78] 3.0	12.8 [3.75] 3.0	12.8 [3.75] 3.1	11.2 [3.28] 3.3	11.1 [3.25] 3.4	11.1 [3.25] 3.4
	5 [-15]	Total BTUH [kW] Power	16.9 [4.95] 2.6	16.8 [4.92] 2.6	16.7 [4.89] 2.7	16.0 [4.69] 3.0	15.8 [4.63] 3.1	15.7 [4.60] 3.1	14.2 [4.16] 3.4	14.1 [4.13] 3.4	14.0 [4.10] 3.5
	10 [-12.2]	Total BTUH [kW] Power	20.0 [5.86] 2.6	19.8 [5.80] 2.7	19.7 [5.77] 2.7	19.0 [5.57] 3.1	18.8 [5.51] 3.1	18.7 [5.48] 3.1	17.3 [5.07] 3.4	17.1 [5.01] 3.5	17.0 [4.98] 3.5
	15 [-9.4]	Total BTUH [kW] Power	23.0 [6.74] 2.7	22.8 [6.68] 2.7	22.6 [6.62] 2.7	22.0 [6.45] 3.1	21.8 [6.39] 3.1	21.7 [6.36] 3.2	20.3 [5.95] 3.5	20.1 [5.89] 3.5	20.0 [5.86] 3.5
	20 [-6.7]	Total BTUH [kW] Power	26.0 [7.62] 2.7	25.8 [7.56] 2.7	25.6 [7.50] 2.8	25.0 [7.33] 3.1	24.8 [7.27] 3.2	24.7 [7.24] 3.2	23.3 [6.83] 3.5	23.1 [6.77] 3.5	23.0 [6.74] 3.6
	25 [-3.9]	Total BTUH [kW] Power	29.0 [8.50] 2.8	28.8 [8.44] 2.8	28.6 [8.38] 2.8	28.0 [8.21] 3.2	27.8 [8.15] 3.2	27.6 [8.09] 3.3	26.3 [7.71] 3.5	26.1 [7.65] 3.6	25.9 [7.59] 3.6
	30 [-1.1]	Total BTUH [kW] Power	32.0 [9.38] 2.8	31.8 [9.32] 2.8	31.6 [9.26] 2.9	31.1 [9.11] 3.2	30.8 [9.03] 3.2	30.6 [8.97] 3.3	29.3 [8.59] 3.6	29.1 [8.53] 3.6	28.9 [8.47] 3.7
	35 [1.7]	Total BTUH [kW] Power	35.1 [10.29] 2.8	34.8 [10.20] 2.9	34.6 [10.14] 2.9	34.1 [9.99] 3.2	33.8 [9.91] 3.3	33.6 [9.85] 3.3	32.4 [9.50] 3.6	32.1 [9.41] 3.6	31.9 [9.35] 3.7
	40 [4.4]	Total BTUH [kW] Power	38.1 [11.17] 2.9	37.8 [11.08] 2.9	37.5 [10.99] 2.9	37.1 [10.87] 3.3	36.8 [10.79] 3.3	36.6 [10.73] 3.4	35.4 [10.37] 3.6	35.1 [10.29] 3.7	34.9 [10.23] 3.7
	45 [7.2]	Total BTUH [kW] Power	41.1 [12.05] 2.9	40.8 [11.96] 2.9	40.5 [11.87] 3.0	40.1 [11.75] 3.3	39.8 [11.66] 3.4	39.5 [11.58] 3.4	38.4 [11.25] 3.7	38.1 [11.17] 3.7	37.9 [11.11] 3.8
50 [10]	Total BTUH [kW] Power	44.1 [12.92] 2.9	43.8 [12.84] 3.0	43.5 [12.75] 3.0	43.1 [12.63] 3.4	42.8 [12.54] 3.4	42.5 [12.46] 3.4	41.4 [12.13] 3.7	41.1 [12.05] 3.8	40.8 [11.96] 3.8	

IDB—Indoor air dry bulb

[] Designates Metric Conversions

SYSTEMS PERFORMANCE—TZHC-4 SERIES

COOLING PERFORMANCE DATA—TZHC-448

		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①									
		71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			
wbE		1760 [831]	1600 [755]	1440 [680]	1760 [831]	1600 [755]	1440 [680]	1760 [831]	1600 [755]	1440 [680]	
CFM [L/s]		1760 [831]	1600 [755]	1440 [680]	1760 [831]	1600 [755]	1440 [680]	1760 [831]	1600 [755]	1440 [680]	
DR ①		.15	.13	.11	.15	.13	.11	.15	.13	.11	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	60.4 [17.70] 37.4 [10.96] 3.2	59.3 [17.38] 35.7 [10.46] 3.1	58.3 [17.09] 34.1 [9.99] 3.1	57.1 [16.73] 42.7 [12.51] 3.1	56.1 [16.44] 40.8 [11.96] 3.1	55.0 [16.12] 38.9 [11.40] 3.1	54.5 [15.97] 45.0 [13.19] 3.1	53.5 [15.68] 43.0 [12.60] 3.1	52.5 [15.39] 41.0 [12.02] 3.1
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	58.8 [17.23] 36.6 [10.73] 3.4	57.8 [16.94] 35.0 [10.26] 3.3	56.7 [16.62] 33.3 [9.76] 3.3	55.5 [16.27] 41.9 [12.28] 3.3	54.5 [15.97] 40.0 [11.72] 3.3	53.5 [15.68] 38.2 [11.20] 3.3	52.9 [15.50] 44.2 [12.95] 3.3	51.9 [15.21] 42.2 [12.37] 3.3	51.0 [14.95] 40.3 [11.81] 3.2
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	57.0 [16.71] 35.7 [10.46] 3.5	56.0 [16.41] 34.1 [9.99] 3.5	55.0 [16.12] 32.5 [9.52] 3.5	53.7 [15.74] 41.0 [12.02] 3.5	52.7 [15.44] 39.2 [11.49] 3.5	51.8 [15.18] 37.3 [10.93] 3.5	51.1 [14.98] 43.3 [12.69] 3.5	50.2 [14.71] 41.4 [12.13] 3.5	49.3 [14.45] 39.4 [11.55] 3.4
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	55.1 [16.15] 34.8 [10.20] 3.7	54.1 [15.86] 33.2 [9.73] 3.7	53.1 [15.56] 31.7 [9.29] 3.7	51.7 [15.15] 40.1 [11.75] 3.7	50.8 [14.89] 38.3 [11.22] 3.7	49.9 [14.62] 36.5 [10.70] 3.6	49.1 [14.39] 42.4 [12.43] 3.7	48.3 [14.16] 40.5 [11.87] 3.6	47.4 [13.89] 38.6 [11.31] 3.6
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	53.1 [15.56] 33.8 [9.91] 3.9	52.1 [15.27] 32.3 [9.47] 3.9	51.2 [15.01] 30.8 [9.03] 3.9	49.8 [14.59] 39.1 [11.46] 3.9	48.9 [14.33] 37.4 [10.96] 3.9	48.0 [14.07] 35.6 [10.43] 3.8	47.2 [13.83] 41.4 [12.13] 3.9	46.3 [13.57] 39.6 [11.61] 3.8	45.5 [13.33] 37.7 [11.05] 3.8
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	51.1 [14.98] 32.9 [9.64] 4.1	50.2 [14.71] 31.4 [9.20] 4.1	49.3 [14.45] 29.9 [8.76] 4.0	47.8 [14.01] 38.2 [11.20] 4.1	46.9 [13.75] 36.5 [10.70] 4.0	46.1 [13.51] 34.8 [10.20] 4.0	45.2 [13.25] 40.5 [11.87] 4.1	44.4 [13.01] 38.7 [11.34] 4.0	43.6 [12.78] 36.9 [10.81] 4.0
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	49.3 [14.45] 32.0 [9.38] 4.3	48.4 [14.18] 30.6 [8.97] 4.3	47.5 [13.92] 29.2 [8.56] 4.2	46.0 [13.48] 37.3 [10.93] 4.3	45.1 [13.22] 35.7 [10.46] 4.2	44.3 [12.98] 34.0 [9.96] 4.2	43.4 [12.72] 39.6 [11.61] 4.2	42.6 [12.48] 37.9 [11.11] 4.2	41.8 [12.25] 36.1 [10.58] 4.2
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	47.6 [13.95] 31.3 [9.17] 4.5	46.8 [13.72] 29.9 [8.76] 4.4	45.9 [13.45] 28.5 [8.35] 4.4	44.3 [12.98] 36.6 [10.73] 4.5	43.5 [12.75] 34.9 [10.23] 4.4	42.7 [12.51] 33.3 [9.76] 4.4	41.7 [12.22] 38.9 [11.40] 4.4	41.0 [12.02] 37.1 [10.87] 4.4	40.2 [11.78] 35.4 [10.37] 4.4
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	46.3 [13.57] 30.7 [9.00] 4.7	45.5 [13.33] 29.3 [8.59] 4.6	44.6 [13.07] 27.9 [8.18] 4.6	43.0 [12.60] 36.0 [10.55] 4.6	42.2 [12.37] 34.4 [10.08] 4.6	41.4 [12.13] 32.8 [9.61] 4.6	40.4 [11.84] 38.3 [11.22] 4.6	39.6 [11.61] 36.6 [10.73] 4.6	38.9 [11.40] 34.8 [10.20] 4.5

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 $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$.

HEATING PERFORMANCE DATA—TZHC-448

		IDB									
		60°F [15.5°C]			70°F [21.1°C]			80°F [26.7°C]			
CFM [L/s]		1760 [831]	1600 [755]	1440 [680]	1760 [831]	1600 [755]	1440 [680]	1760 [831]	1600 [755]	1440 [680]	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	0 [-17.8]	Total BTUH [kW] Power	16.9 [4.95] 2.6	16.8 [4.92] 2.6	16.7 [4.89] 2.6	15.4 [4.51] 3.0	15.3 [4.48] 3.0	15.2 [4.45] 3.0	14.4 [4.22] 3.4	14.3 [4.19] 3.5	14.2 [4.16] 3.5
	5 [-15]	Total BTUH [kW] Power	20.1 [5.89] 2.6	19.9 [5.83] 2.6	19.8 [5.80] 2.7	18.6 [5.45] 3.0	18.5 [5.42] 3.0	18.3 [5.36] 3.1	17.6 [5.16] 3.5	17.5 [5.13] 3.5	17.3 [5.07] 3.5
	10 [-12.2]	Total BTUH [kW] Power	23.2 [6.80] 2.7	23.1 [6.77] 2.7	22.9 [6.71] 2.7	21.8 [6.39] 3.1	21.6 [6.33] 3.1	21.5 [6.30] 3.1	20.7 [6.07] 3.5	20.6 [6.04] 3.6	20.4 [5.98] 3.6
	15 [-9.4]	Total BTUH [kW] Power	26.4 [7.74] 2.7	26.2 [7.68] 2.8	26.0 [7.62] 2.8	24.9 [7.30] 3.1	24.7 [7.24] 3.2	24.6 [7.21] 3.2	23.9 [7.00] 3.6	23.7 [6.95] 3.6	23.6 [6.92] 3.7
	20 [-6.7]	Total BTUH [kW] Power	29.5 [8.65] 2.8	29.3 [8.59] 2.8	29.1 [8.53] 2.8	28.1 [8.24] 3.2	27.9 [8.18] 3.2	27.7 [8.12] 3.2	27.1 [7.94] 3.6	26.9 [7.88] 3.7	26.7 [7.83] 3.7
	25 [-3.9]	Total BTUH [kW] Power	32.7 [9.58] 2.8	32.5 [9.52] 2.9	32.2 [9.44] 2.9	31.2 [9.14] 3.2	31.0 [9.09] 3.3	30.8 [9.03] 3.3	30.2 [8.85] 3.7	30.0 [8.79] 3.7	29.8 [8.73] 3.8
	30 [-1.1]	Total BTUH [kW] Power	35.9 [10.52] 2.9	35.6 [10.43] 2.9	35.4 [10.37] 2.9	34.4 [10.08] 3.3	34.1 [9.99] 3.3	33.9 [9.94] 3.4	33.4 [9.79] 3.7	33.1 [9.70] 3.8	32.9 [9.64] 3.8
	35 [1.7]	Total BTUH [kW] Power	39.0 [11.43] 2.9	38.7 [11.34] 3.0	38.5 [11.28] 3.0	37.5 [10.99] 3.3	37.3 [10.93] 3.4	37.0 [10.84] 3.4	36.5 [10.70] 3.8	36.3 [10.64] 3.8	36.0 [10.55] 3.9
	40 [4.4]	Total BTUH [kW] Power	42.2 [12.37] 3.0	41.9 [12.28] 3.0	41.6 [12.19] 3.1	40.7 [11.93] 3.4	40.4 [11.84] 3.4	40.1 [11.75] 3.5	39.7 [11.63] 3.8	39.4 [11.55] 3.9	39.1 [11.46] 3.9
	45 [7.2]	Total BTUH [kW] Power	45.3 [13.28] 3.0	45.0 [13.19] 3.1	44.7 [13.10] 3.1	43.9 [12.87] 3.4	43.6 [12.78] 3.5	43.2 [12.66] 3.5	42.8 [12.54] 3.9	42.5 [12.46] 3.9	42.2 [12.37] 4.0
50 [10]	Total BTUH [kW] Power	48.5 [14.21] 3.1	48.1 [14.10] 3.1	47.8 [14.01] 3.2	47.0 [13.77] 3.5	46.7 [13.69] 3.5	46.4 [13.60] 3.6	46.0 [13.48] 3.9	45.7 [13.39] 4.0	45.3 [13.28] 4.0	

IDB—Indoor air dry bulb

[] Designates Metric Conversions

AIRFLOW PERFORMANCE—TZHC-3 SERIES

INDOOR AIRFLOW PERFORMANCE—208 VOLTS

Nominal Cooling Capacity Tons [kW]	Motor Speed from Factory	Manufacturer Recommended Air-Flow Range (Min/Max) CFM	Blower Size/ Motor HP [W] & # of Speeds	Motor Speed	External Static Pressure—Inches W.C. [kPa] Side Discharge—Wet Coil							
					0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	
2.0 [7.03]	High	700 CFM/900 CFM [271/319 L/s]	9x7 Blower 1/4 HP [186] 2 Speed (PSC Motor)	Low	CFM	675 [319]	657 [310]	634 [299]	602 [284]	560 [264]	505 [238]	435 [205]
					RPM	695	785	870	905	940	980	1020
					Watts	221	214	203	191	171	163	149
	High			High	CFM	898 [424]	861 [406]	822 [388]	777 [367]	721 [340]	651 [307]	562 [265]
					RPM	940	965	995	1020	1045	1070	1090
					Watts	292	278	266	253	239	221	199
	Low			Low	CFM	1076 [508]	1059 [500]	1032 [487]	996 [470]	950 [448]	896 [423]	832 [393]
					RPM	730	775	820	865	905	940	975
					Watts	356	349	341	331	320	305	287
2.5 [8.79]	Low	875 CFM/1125 CFM [413/531 L/s]	10x9 Blower 1/2 HP [372] 2 Speed (PSC Motor)	Medium	CFM	1222 [577]	1197 [565]	1179 [556]	1162 [548]	1137 [537]	1097 [518]	1033 [488]
					RPM	765	810	855	890	920	960	995
					Watts	423	415	407	397	386	370	351
	High			High	CFM	1514 [715]	1461 [690]	1415 [668]	1370 [647]	1322 [624]	1266 [597]	1197 [565]
					RPM	895	930	965	985	1005	1025	1045
					Watts	538	514	493	473	454	434	412
3.0 [10.55]	Low	1050 CFM/1350 CFM [496/637 L/s]	10x9 Blower 1/3 HP [248] 1 Speed (PSC Motor)	High	CFM	1222 [577]	1201 [567]	1173 [554]	1137 [537]	1090 [514]	1030 [486]	954 [450]
					RPM	785	805	830	870	905	950	990
					Watts	355	352	346	340	331	320	306
3.5 [12.31]	Low (Tap 1)	1225 CFM/1575 CFM [578/743 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	Low (Tap 1)	CFM	1455 [687]	1431 [675]	1396 [659]	1360 [642]	1315 [621]	1285 [606]	1241 [586]
					RPM	824	856	889	931	968	1009	1041
					Watts	268	280	288	303	311	325	331
4.0 [14.07]	Low (Tap 1)	1350 CFM/1700 CFM [496/802 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	High (Tap 2)	CFM	1559 [736]	1530 [722]	1488 [702]	1454 [686]	1417 [669]	1375 [649]	1336 [631]
					RPM	870	893	932	968	1007	1036	1072
					Watts	321	327	338	351	364	371	381
	Low (Tap 1)			Low (Tap 1)	CFM	1675 [791]	1658 [782]	1610 [760]	1580 [746]	1535 [724]	1491 [704]	1422 [671]
					RPM	923	944	979	1013	1045	1077	1098
					Watts	390	401	412	425	433	440	432
	High (Tap 2)			High (Tap 2)	CFM	1770 [835]	1751 [826]	1706 [805]	1672 [789]	1624 [766]	1555 [734]	1463 [690]
					RPM	966	989	1018	1050	1078	1100	1115
					Watts	454	466	473	486	490	481	460

NOTE: Effect of electric heat strip on airflow performance is negligible.

DOWN DISCHARGE PRESSURE DROP (ADD TO EXTERNAL STATIC PRESSURE)			
CFM [L/s]	600 [283]	800 [378]	1000 [472]
Pressure Drop—Inches W.C. [kPa]	.00	.01 [.002]	.02 [.005]
		1200 [566]	1400 [661]
		.03 [.007]	.05 [.012]
			.07 [.017]

[] Designates Metric Conversions

INDOOR AIRFLOW PERFORMANCE—230 VOLTS

Nominal Cooling Capacity Tons [kW]	Motor Speed from Factory	Manufacturer Recommended Air-Flow Range (Min/Max) CFM	Blower Size/ Motor HP [W] & # of Speeds	Motor Speed	External Static Pressure—Inches W.C. [kPa]							
					Side Discharge—Wet Coil							
					0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	
2.0 [7.03]	High	700 CFM/900 CFM [271/319 L/s]	9x7 Blower 1/4 HP [186] 2 Speed (PSC Motor)	Low	CFM	771 [364]	751 [354]	725 [342]	691 [326]	645 [304]	584 [276]	546 [258]
					RPM	825	870	910	950	985	1010	1030
					Watts	253	242	230	217	204	189	181
					CFM	946 [446]	922 [435]	882 [416]	830 [392]	769 [363]	701 [331]	630 [297]
					RPM	990	1015	1035	1055	1070	1085	1100
					Watts	315	303	288	273	257	241	226
2.5 [8.79]	Low	875 CFM/1125 CFM [413/531 L/s]	10x9 Blower 1/2 HP [373] 3 Speed (PSC Motor)	Low	CFM	1206 [569]	1182 [558]	1157 [546]	1128 [532]	1091 [515]	1044 [493]	983 [464]
					RPM	760	815	870	910	950	975	1000
					Watts	419	406	394	381	368	353	334
					CFM	1411 [666]	1368 [646]	1327 [626]	1285 [606]	1238 [584]	1183 [558]	1116 [527]
					RPM	865	900	935	970	1000	1020	1035
					Watts	498	498	481	464	447	431	391
3.0 [10.55]	High	1050 CFM/1350 CFM [496/637 L/s]	10x9 Blower 1/3 HP [249] 1 Speed (PSC Motor)	High	CFM	1641 [774]	1577 [744]	1515 [715]	1455 [687]	1393 [657]	1329 [627]	1262 [596]
					RPM	980	1000	1020	1035	1050	1065	1080
					Watts	589	585	543	523	503	481	456
					CFM	1391 [656]	1357 [640]	1312 [619]	1258 [594]	1201 [567]	1145 [540]	1093 [516]
					RPM	835	875	915	940	965	985	1000
					Watts	428	419	406	392	378	365	355
3.5 [12.31]	Low (Tap 1)	1225 CFM/1575 CFM [578/743 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	Low (Tap 1)	CFM	1467 [692]	1439 [679]	1408 [665]	1360 [642]	1331 [628]	1287 [607]	1259 [594]
					RPM	831	854	894	932	972	1005	1042
					Watts	276	282	297	307	319	326	341
					CFM	1550 [732]	1520 [717]	1486 [701]	1449 [684]	1407 [664]	1382 [652]	1337 [631]
					RPM	867	890	930	974	1003	1039	1073
					Watts	317	323	339	355	362	377	385
4.0 [14.07]	Low (Tap 1)	1350 CFM/1700 CFM [496/802 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	Low (Tap 1)	CFM	1692 [799]	1661 [784]	1633 [771]	1589 [750]	1560 [736]	1512 [714]	1442 [681]
					RPM	931	950	982	1018	1054	1082	1103
					Watts	404	409	424	434	450	453	443
					CFM	1748 [825]	1718 [811]	1686 [796]	1647 [777]	1616 [763]	1543 [728]	1472 [695]
					RPM	955	978	1010	1043	1073	1096	1111
					Watts	440	446	462	475	484	473	459

NOTE: Effect of electric heat strip on airflow performance is negligible.

DOWN DISCHARGE PRESSURE DROP (ADD TO EXTERNAL STATIC PRESSURE)		
CFM [L/s]	600 [283]	800 [378]
Pressure Drop—Inches W.C. [kPa]	.00	.01 [.002]
	1000 [472]	1200 [566]
	.02 [.005]	.03 [.007]
	1400 [661]	1600 [775]
	.05 [.012]	.07 [.017]

[] Designates Metric Conversions

AIRFLOW PERFORMANCE—TZHC-4 SERIES

INDOOR AIRFLOW PERFORMANCE—208 VOLTS

Nominal Cooling Capacity Tons [kW]	Motor Speed from Factory	Manufacturer Recommended Air-Flow Range (Min/Max) CFM	Blower Size/ Motor HP [W] & # of Speeds	Motor Speed	External Static Pressure—Inches W.C. [kPa]								
					0.1 [0.2]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	
2.0 [7.03]	High (Tap 1)	700 CFM/900 CFM [271/319 L/s]	9x7 Blower 1/3 HP [249] 3 Speed (X13 Motor)	Low (Tap 1)	CFM	847 [400]	818 [386]	788 [372]	765 [361]	737 [348]	695 [328]	659 [311]	581 [274]
					RPM	892	818	788	765	737	695	659	581
					Watts	145	147	156	157	164	167	167	155
2.5 [8.79]	Low (Tap 1)	875 CFM/1125 CFM [413/531 L/s]	10x9 Blower 1/2 HP [372] 3 Speed (X13 Motor)	Medium (Tap 2)	CFM	914 [431]	887 [419]	853 [403]	824 [389]	793 [374]	762 [360]	717 [338]	602 [284]
					RPM	934	971	1024	1053	1083	1121	1135	1155
					Watts	173	177	185	186	188	192	185	164
3.0 [10.55]	Low (Tap 1)	1050 CFM/1350 CFM [496/637 L/s]	10x9 Blower 1/2 HP [372] 3 Speed (X13 Motor)	High (Tap 3)	CFM	1067 [504]	1034 [488]	992 [468]	957 [452]	912 [430]	820 [387]	778 [367]	729 [344]
					RPM	719	749	791	819	876	952	983	1024
					Watts	143	145	155	159	169	182	185	192
3.5 [12.31]	Low (Tap 1)	1225 CFM/1575 CFM [578/743 L/s]	10x9 Blower 1/2 HP [372] 3 Speed (X13 Motor)	Medium (Tap 2)	CFM	1165 [550]	1132 [534]	1091 [515]	1051 [496]	1009 [476]	959 [453]	855 [404]	819 [387]
					RPM	744	785	833	864	905	951	1020	1053
					Watts	167	177	188	191	202	206	217	351
4.0 [14.07]	Low (Tap 1)	1350 CFM/1700 CFM [496/802 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	High (Tap 3)	CFM	1252 [591]	1213 [572]	1166 [550]	1137 [537]	1099 [519]	1046 [494]	986 [465]	892 [421]
					RPM	796	826	868	893	934	982	1026	1086
					Watts	206	210	219	225	234	245	248	256
3.5 [12.31]	Low (Tap 1)	1225 CFM/1575 CFM [578/743 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	Low (Tap 1)	CFM	1247 [589]	1220 [576]	1178 [556]	1143 [539]	1099 [519]	1064 [502]	998 [471]	904 [427]
					RPM	784	819	863	890	932	957	1012	1075
					Watts	200	208	219	224	233	236	246	256
3.5 [12.31]	Low (Tap 1)	1225 CFM/1575 CFM [578/743 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	Medium (Tap 2)	CFM	1307 [617]	1292 [610]	1238 [584]	1214 [573]	1170 [552]	1135 [536]	1087 [513]	989 [467]
					RPM	820	850	889	918	944	981	1028	1087
					Watts	233	242	248	255	262	268	277	284
3.5 [12.31]	Low (Tap 1)	1225 CFM/1575 CFM [578/743 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	High (Tap 3)	CFM	1396 [659]	1357 [640]	1334 [630]	1286 [607]	1253 [591]	1207 [570]	1163 [549]	1103 [521]
					RPM	864	898	920	942	976	1010	1043	1089
					Watts	268	280	288	292	299	304	310	316
3.5 [12.31]	Low (Tap 1)	1225 CFM/1575 CFM [578/743 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	Low (Tap 1)	CFM	1455 [687]	1431 [675]	1396 [659]	1360 [642]	1315 [621]	1285 [606]	1241 [586]	
					RPM	824	856	889	931	968	1009	1041	
					Watts	268	280	288	303	311	325	331	
3.5 [12.31]	Low (Tap 1)	1225 CFM/1575 CFM [578/743 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	High (Tap 2)	CFM	1559 [736]	1530 [722]	1488 [702]	1454 [686]	1417 [669]	1375 [649]	1336 [631]	
					RPM	870	893	932	968	1007	1036	1072	
					Watts	321	327	338	351	364	371	381	
4.0 [14.07]	Low (Tap 1)	1350 CFM/1700 CFM [496/802 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	Low (Tap 1)	CFM	1675 [791]	1658 [782]	1610 [760]	1580 [746]	1535 [724]	1491 [704]	1422 [671]	
					RPM	923	944	979	1013	1045	1077	1098	
					Watts	390	401	412	425	433	440	432	
4.0 [14.07]	Low (Tap 1)	1350 CFM/1700 CFM [496/802 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	High (Tap 2)	CFM	1770 [835]	1751 [826]	1706 [805]	1672 [789]	1624 [766]	1555 [734]	1463 [690]	
					RPM	966	989	1018	1050	1078	1100	1115	
					Watts	454	466	473	486	490	481	460	

NOTE: Effect of electric heat strip on airflow performance is negligible.

DOWN DISCHARGE PRESSURE DROP (ADD TO EXTERNAL STATIC PRESSURE)			
CFM [L/s]	600 [283]	1000 [472]	1600 [775]
Pressure Drop—Inches W.C. [kPa]	.00	.02 [0.005]	.07 [0.017]
	800 [378]	1200 [566]	1400 [661]
	.01 [0.002]	.03 [0.007]	.05 [0.012]

[J Designates Metric Conversions

INDOOR AIRFLOW PERFORMANCE—230 VOLTS

Nominal Cooling Capacity Tons [kW]	Motor Speed from Factory	Manufacturer Recommended Air-Flow Range (Min/Max) CFM	Blower Size/ Motor HP [W] & # of Speeds	Motor Speed	External Static Pressure—Inches W.C. [kPa]									
					0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]		
2.0 [7.03]	Low (Tap 1)	700 CFM/900 CFM [271/319 L/s]	9x7 Blower 1/3 HP [249] 3 Speed (X13 Motor)	Low (Tap 1)	CFM	862 [407]	834 [394]	819 [387]	781 [369]	761 [359]	729 [344]	695 [328]	606 [286]	
				High (Tap 2)	RPM	889	953	974	1018	1065	1101	1133	1156	
				Watts	151	159	162	166	173	176	180	185	165	
2.5 [8.79]	Low (Tap 1)	875 CFM/1125 CFM [413/531 L/s]	10x9 Blower 1/2 HP [372] 3 Speed (X13 Motor)	Medium (Tap 2)	CFM	918 [433]	888 [419]	874 [412]	838 [395]	819 [387]	781 [369]	711 [336]	616 [291]	
				High (Tap 3)	RPM	953	988	1032	1060	1091	1126	1146	1157	
				Watts	181	184	194	198	200	204	189	168		
3.0 [10.55]	Low (Tap 1)	1050 CFM/1350 CFM [496/637 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	Low (Tap 1)	CFM	1076 [508]	1041 [491]	1017 [480]	970 [458]	928 [438]	852 [402]	785 [370]	745 [352]	
				Medium (Tap 2)	RPM	715	753	787	825	877	946	1005	1032	
				High (Tap 3)	Watts	144	148	157	169	175	187	198	202	
3.5 [12.31]	Low (Tap 1)	1225 CFM/1575 CFM [578/743 L/s]	10x9 Blower 1/2 HP [372] 3 Speed (X13 Motor)	Medium (Tap 2)	CFM	1187 [560]	1124 [530]	1096 [517]	1071 [505]	1024 [483]	987 [466]	896 [423]	852 [402]	
				High (Tap 3)	RPM	762	799	832	859	914	940	1021	1059	
				Watts	176	182	191	196	209	212	227	235		
4.0 [14.07]	Low (Tap 1)	1350 CFM/1700 CFM [496/802 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	Low (Tap 1)	CFM	1271 [600]	1223 [577]	1169 [552]	1137 [537]	1104 [521]	1071 [505]	1015 [479]	934 [441]	
				Medium (Tap 2)	RPM	797	836	878	905	939	974	1026	1089	
				High (Tap 3)	Watts	212	217	227	231	241	247	257	270	
4.0 [14.07]	Low (Tap 1)	1350 CFM/1700 CFM [496/802 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	Low (Tap 1)	CFM	1258 [594]	1215 [573]	1200 [566]	1160 [547]	1130 [533]	1082 [511]	1026 [484]	954 [450]	
				Medium (Tap 2)	RPM	802	829	861	894	933	971	1020	1077	
				High (Tap 3)	Watts	210	217	225	230	239	245	259	268	
4.0 [14.07]	Low (Tap 1)	1350 CFM/1700 CFM [496/802 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	Medium (Tap 2)	CFM	1336 [631]	1298 [613]	1259 [594]	1229 [580]	1198 [565]	1160 [547]	1116 [527]	1071 [505]	
				High (Tap 3)	RPM	821	867	903	920	957	993	1038	1071	
				Watts	239	249	259	262	275	279	290	299		
4.0 [14.07]	Low (Tap 1)	1350 CFM/1700 CFM [496/802 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	Low (Tap 1)	CFM	1416 [668]	1379 [651]	1342 [633]	1292 [610]	1275 [602]	1240 [585]	1200 [566]	1168 [551]	
				Medium (Tap 2)	RPM	874	898	933	952	993	1011	1060	1091	
				High (Tap 3)	Watts	285	290	299	304	314	322	328	337	
4.0 [14.07]	Low (Tap 1)	1350 CFM/1700 CFM [496/802 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	Low (Tap 1)	CFM	1467 [692]	1439 [679]	1408 [665]	1360 [642]	1331 [628]	1287 [607]	1259 [594]	1200 [566]	
				Medium (Tap 2)	RPM	831	854	894	932	972	1005	1042	1089	
				High (Tap 3)	Watts	276	282	297	307	319	326	341	341	
4.0 [14.07]	Low (Tap 1)	1350 CFM/1700 CFM [496/802 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	Low (Tap 1)	CFM	1550 [732]	1520 [717]	1486 [701]	1449 [684]	1407 [664]	1382 [652]	1337 [631]	1287 [607]	
				Medium (Tap 2)	RPM	867	890	930	974	1003	1039	1073	1111	
				High (Tap 3)	Watts	317	323	339	355	362	377	385	385	
4.0 [14.07]	Low (Tap 1)	1350 CFM/1700 CFM [496/802 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	Low (Tap 1)	CFM	1692 [799]	1661 [784]	1633 [771]	1589 [750]	1560 [736]	1512 [714]	1442 [681]	1387 [652]	
				Medium (Tap 2)	RPM	931	950	982	1018	1054	1082	1103	1103	
				High (Tap 3)	Watts	404	409	424	434	450	453	443	443	
4.0 [14.07]	Low (Tap 1)	1350 CFM/1700 CFM [496/802 L/s]	10x9 Blower 3/4 HP [559] 2 Speed (X13 Motor)	Low (Tap 1)	CFM	1748 [825]	1718 [811]	1686 [796]	1647 [777]	1616 [778]	1543 [779]	1472 [780]	1426 [751]	
				Medium (Tap 2)	RPM	955	978	1010	1043	1073	1096	1111	1111	
				High (Tap 3)	Watts	440	446	462	475	484	473	459	459	

NOTE: Effect of electric heat strip on airflow performance is negligible.

DOWN DISCHARGE PRESSURE DROP (ADD TO EXTERNAL STATIC PRESSURE)			
CFM [L/s]	600 [283]	800 [378]	1600 [775]
Pressure Drop—Inches W.C. [kPa]	.00	.01 [0.002]	.07 [0.017]
	1000 [472]	1200 [566]	1400 [661]
	.02 [0.005]	.03 [0.007]	.05 [0.012]

[J] Designates Metric Conversions

ELECTRICAL DATA—TZHC-3/TZHC-4 SERIES

ELECTRICAL DATA – TZHC-3 SERIES						
		324JL	330JL	336JL	342JL	348JL
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	187-253	187-253
	Minimum Circuit Ampacity	19/19	22/22	24/24	33/33	37/37
	Minimum Overcurrent Protection Device Size	25/25	25/25	25/25	35/35	40/40
	Maximum Overcurrent Protection Device Size	30/30	35/35	40/40	50/50	50/50
Compressor Motor	No.	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230
	Phase	1	1	1	1	1
	HP	2	2 1/2	3	3 1/2	4
	RPM	3450	3450	3450	3450	3450
	Amps (RLA)	12.8/12.8	14.1/14.1	16.7/16.7	19.9/19.9	23.8/23.8
Condenser Motor	Amps (LRA)	58.3/58.3	73/73	79/79	109/109	117/117
	No.	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230
	Phase	1	1	1	1	1
	HP	1/5	1/5	1/5	1/3	1/3
	Amps (FLA)	1.3	1.3	1.3	2	2
Evaporator Fan	Amps (LRA)	2.2	2.2	2.2	3.9	3.9
	No.	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230
	Phase	1	1	1	1	1
	HP	1/4	1/2	1/3	3/4	3/4
	Amps (FLA)	1.5	2.4	1.7	6	6
	Amps (LRA)	2.4	5.1	2.5	0	0

ELECTRICAL DATA – TZHC-4 SERIES						
		424JL	430JL	436JL	442JL	448JL
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	187-253	187-253
	Minimum Circuit Ampacity	21/21	24/24	27/27	33/33	37/37
	Minimum Overcurrent Protection Device Size	25/25	25/25	30/30	35/35	40/40
	Maximum Overcurrent Protection Device Size	30/30	35/35	40/40	50/50	50/50
Compressor Motor	No.	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230
	Phase	1	1	1	1	1
	HP	2	2 1/2	3	3 1/2	4
	RPM	3450	3450	3450	3450	3450
	Amps (RLA)	12.8/12.8	14.1/14.1	16.7/16.7	19.9/19.9	23.8/23.8
Condenser Motor	Amps (LRA)	58.3/58.3	73/73	79/79	109/109	117/117
	No.	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230
	Phase	1	1	1	1	1
	HP	1/5	1/5	1/5	1/3	1/3
	Amps (FLA)	1.3	1.3	1.3	2	2
Evaporator Fan	Amps (LRA)	2.2	2.2	2.2	3.9	3.9
	No.	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230
	Phase	1	1	1	1	1
	HP	1/3	1/2	1/2	3/4	3/4
	Amps (FLA)	2.8	4.1	4.1	6	6
	Amps (LRA)	0	0	0	0	0

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

ELECTRIC HEATER KITS—TZHC-3/TZHC-4 SERIES

Unit Model Application	Electric Heater Kit Models
TZHC-3/TZHC-4 24JL	RXQJ-A05J (208-240 volt, 1-ph, 5kW)
	RXQJ-A10J (208-240 volt, 1-ph, 10kW)
TZHC-3/TZHC-4 30JL	RXQJ-A05J (208-240 volt, 1-ph, 5kW)
	RXQJ-A10J (208-240 volt, 1-ph, 10kW)
TZHC-3/TZHC-4 36JL	RXQJ-A10J (208-240 volt, 1-ph, 10kW)
	RXQJ-A15J (208-240 volt, 1-ph, 15kW)
TZHC-3/TZHC-4 42JL	RXQJ-B10J (208-240 volt, 1-ph, 10kW)
	RXQJ-B15J (208-240 volt, 1-ph, 15kW)
TZHC-3/TZHC-4 48JL	RXQJ-B10J (208-240 volt, 1-ph, 10kW)
	RXQJ-B15J (208-240 volt, 1-ph, 15kW)

WARNING

ONLY ELECTRIC HEATER KITS SUPPLIED BY THIS MANUFACTURER AS DESCRIBED IN THIS PUBLICATION HAVE BEEN DESIGNED, TESTED, AND EVALUATED BY A NATIONALLY RECOGNIZED SAFETY TESTING AGENCY FOR USE WITH THIS UNIT. USE OF ANY OTHER MANUFACTURED ELECTRIC HEATERS INSTALLED WITHIN THIS UNIT MAY CAUSE HAZARDOUS CONDITIONS RESULTING IN PROPERTY DAMAGE, FIRE, BODILY INJURY OR DEATH.

ELECTRIC HEATER KITS—TZHC-3 SERIES

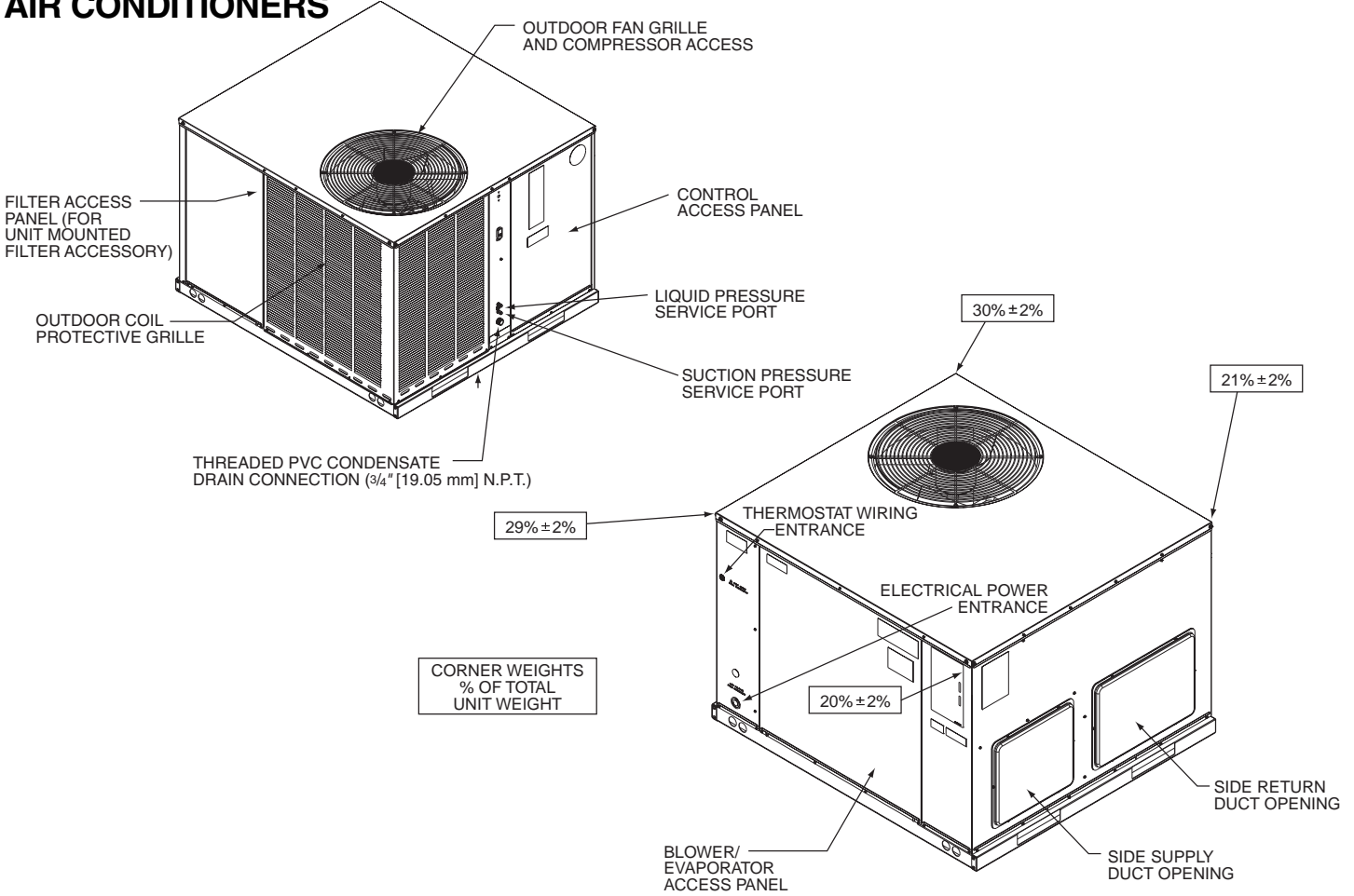
208-240 VOLT, SINGLE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION													
Separate Power Supply For Both Unit and Heater Kit													
Unit Model No. TZHC-	Single Power Supply For Both Unit and Heater Kit					Heater Kit				Heat Pump			
	RXQJ-Heater Kit Nominal kW	No. of Elements	No. of Sequence Steps	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 Min./Max. @ 208 V	Min. Ckt. Ampacity 208-240 V	Max. Fuse Size 208/240V	Min. Circuit Ampacity 208-240 V	Over Current Protective Device Size Min./Max. @ 208 V	Min./Max. @ 240 V
324JL	No Heat	—	—	—	—	—	19/19	30/30	—	—	19/19	30/30	30/30
	A05J	1	1	3.6/4.8	12.28/16.38	17.3/20.0	41/44	45/50	22/25	25/25	—	—	—
330JL	A10J	2	2	7.2/9.6	24.56/32.75	34.6/40.0	62/69	70/70	44/50	45/50	—	—	—
	No Heat	—	—	—	—	—	22/22	35/35	—	—	22/22	35/35	35/35
336JL	A05J	1	1	3.6/4.8	12.28/16.38	17.3/20.0	43/47	50/50	22/25	25/25	—	—	—
	A10J	2	2	7.2/9.6	24.56/32.75	34.6/40.0	65/72	70/80	44/50	45/50	—	—	—
342JL	No Heat	—	—	—	—	—	24/24	40/40	—	—	24/24	40/40	40/40
	A10J	2	2	7.2/9.6	24.56/32.75	34.6/40.0	68/74	70/80	44/50	45/50	—	—	—
348JL	A15J	3	2	10.8/14.4	36.84/49.13	51.9/60.0	89/99	90/100	65/75	70/80	—	—	—
	No Heat	—	—	—	—	—	33/33	50/50	—	—	33/33	50/50	50/50
342JL	B10J	2	2	7.2/9.6	24.56/32.75	34.6/40.0	77/83	80/90	44/50	45/50	—	—	—
	B15J	3	2	10.8/14.4	36.84/49.13	51.9/60.0	98/108	100/110	65/75	70/80	—	—	—
348JL	No Heat	—	—	—	—	—	37/37	50/50	—	—	37/37	50/50	50/50
	B10J	2	2	7.2/9.6	24.56/32.75	34.6/40.0	80/87	90/90	44/50	45/50	—	—	—
348JL	B15J	3	2	10.8/14.4	36.84/49.13	51.9/60.0	102/112	110/125	65/75	70/80	—	—	—

208-240 VOLT, SINGLE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KITS CHARACTERISTICS AND APPLICATION

Unit Model No. TZHC-	Single Power Supply For Both Unit and Heater Kit										Separate Power Supply For Both Unit and Heater Kit									
	Heater Kit					Heat Pump					Heater Kit					Heat Pump				
	RXQJ-Heater Kit Nominal kW	No. of Elements	No. of Sequence Steps	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 Min./Max. @ 208 V	Over Current Protective Device Size Min./Max. @ 240 V	Min. Ckt. Ampacity 208/240V	Max. Fuse Size 208/240V	Min. Circuit Ampacity 208-240 V	Over Current Protective Device Size Min./Max. @ 208 V	Over Current Protective Device Size Min./Max. @ 240 V						
424JL	No Heat A05J A10J	1 2	1 2	3.6/4.8 7.2/9.6	12.28/16.38 24.56/32.75	17.3/20.0 34.6/40.0	21/21 42/46 64/71	30/30 50/50 70/80	30/30 50/50 70/80	— 25/25 45/50	21/21	30/30 50/50 70/80	30/30	30/30						
430JL	No Heat A05J A10J	1 2	1 2	3.6/4.8 7.2/9.6	12.28/16.38 24.56/32.75	17.3/20.0 34.6/40.0	24/24 45/49 67/74	35/35 50/50 70/80	35/35 50/50 70/80	— 25/25 45/50	24/24	35/35 50/50 70/80	35/35	35/35						
436JL	No Heat A10J A15J	2 3	2 2	7.2/9.6 10.8/14.4	24.56/32.75 36.84/49.13	34.6/40.0 51.9/60.0	27/27 70/77 92/102	40/40 70/80 100/110	40/40 70/80 100/110	— 45/50 70/80	27/27	40/40 70/80 100/110	40/40	40/40						
442JL	No Heat B10J B15J	2 3	2 2	7.2/9.6 10.8/14.4	24.56/32.75 36.84/49.13	34.6/40.0 51.9/60.0	33/33 77/83 98/108	50/50 80/90 100/110	50/50 80/90 100/110	— 45/50 70/80	33/33	50/50 80/90 100/110	50/50	50/50						
448JL	No Heat B10J B15J	2 3	2 2	7.2/9.6 10.8/14.4	24.56/32.75 36.84/49.13	34.6/40.0 51.9/60.0	37/37 80/87 102/112	50/50 90/90 110/125	50/50 90/90 110/125	— 45/50 70/80	37/37	50/50 90/90 110/125	50/50	50/50						

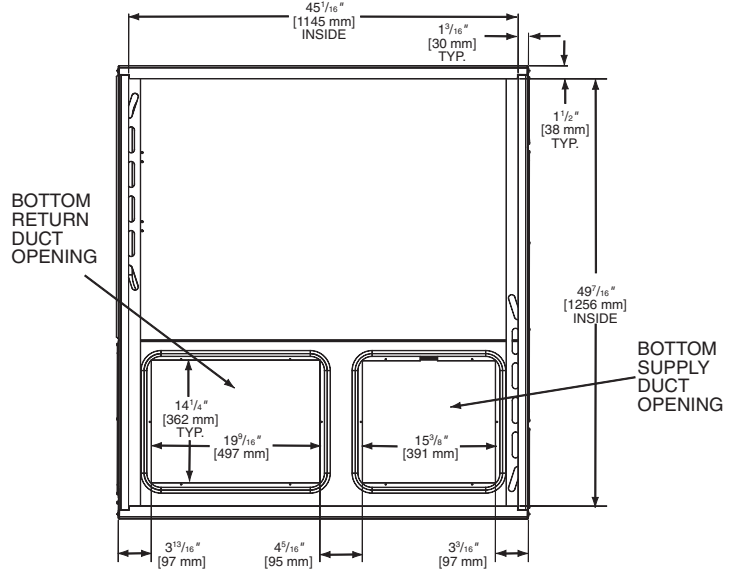
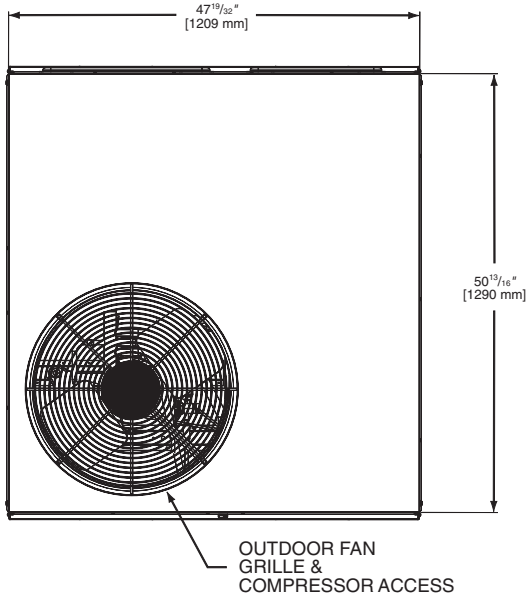
UNIT DIMENSIONS—TZHC-3/TZHC-4 SERIES

UNIT DIMENSIONS SELF-CONTAINED AIR CONDITIONERS



TOP VIEW

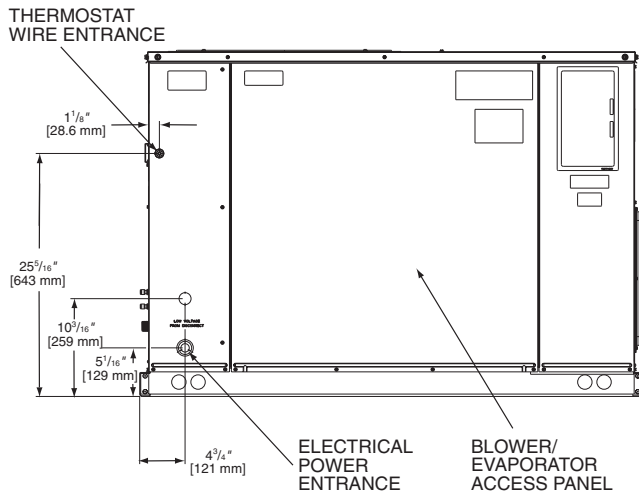
BOTTOM VIEW



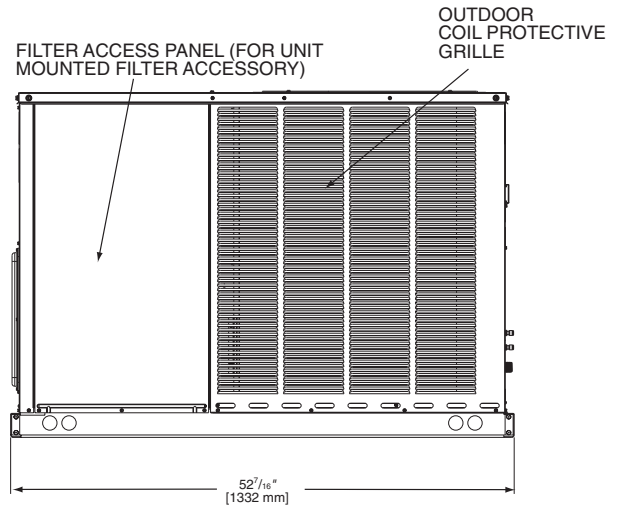
[] Designates Metric Conversions

UNIT DIMENSIONS—TZHC-3/TZHC-4 SERIES

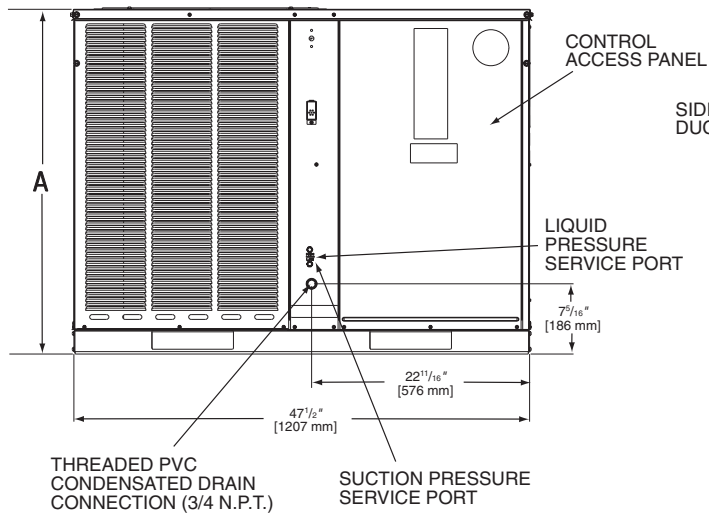
SIDE VIEW



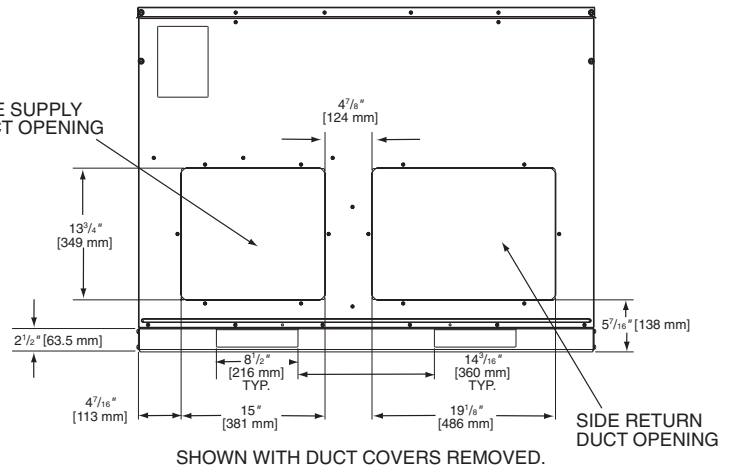
SIDE VIEW



FRONT VIEW



BACK VIEW



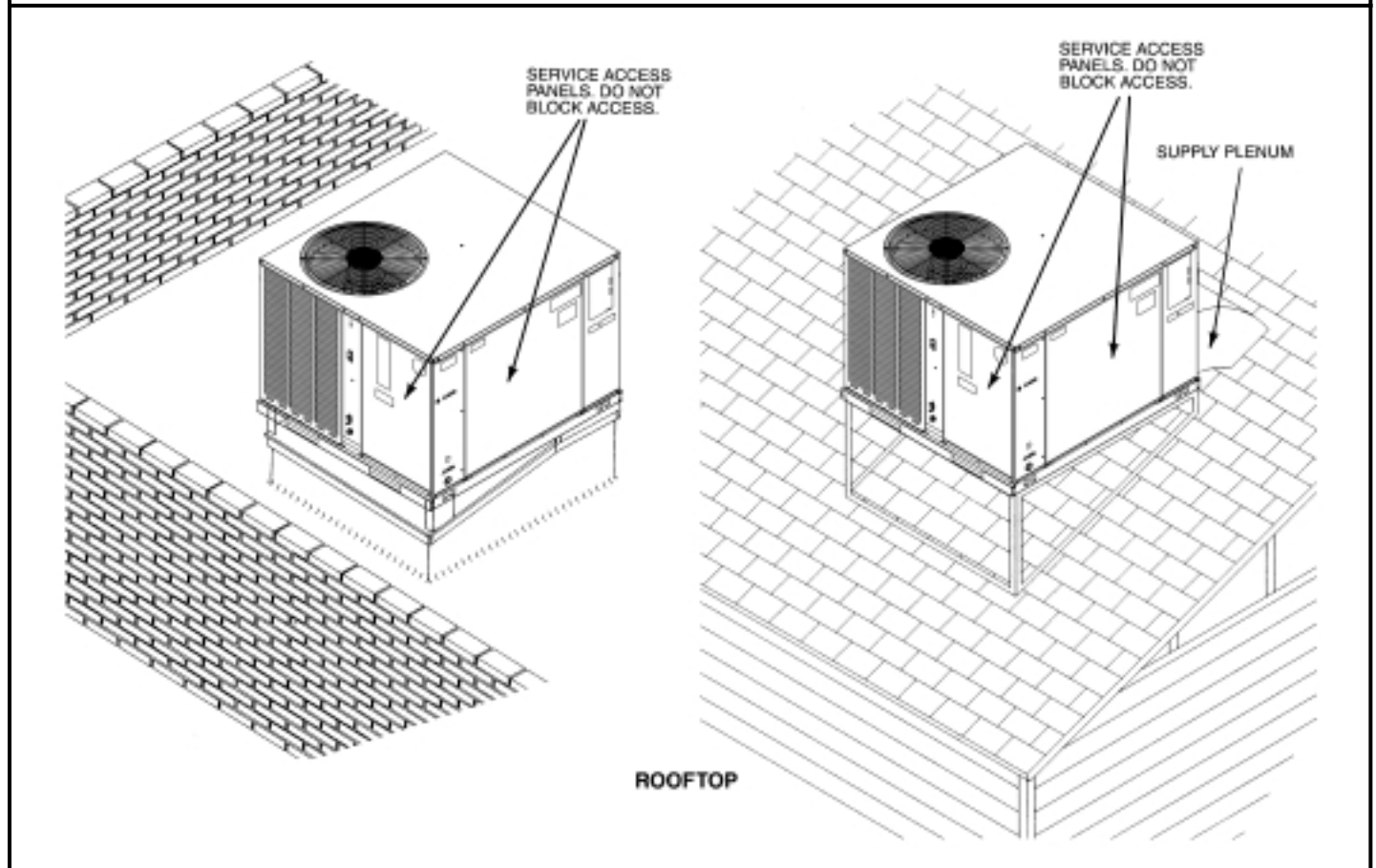
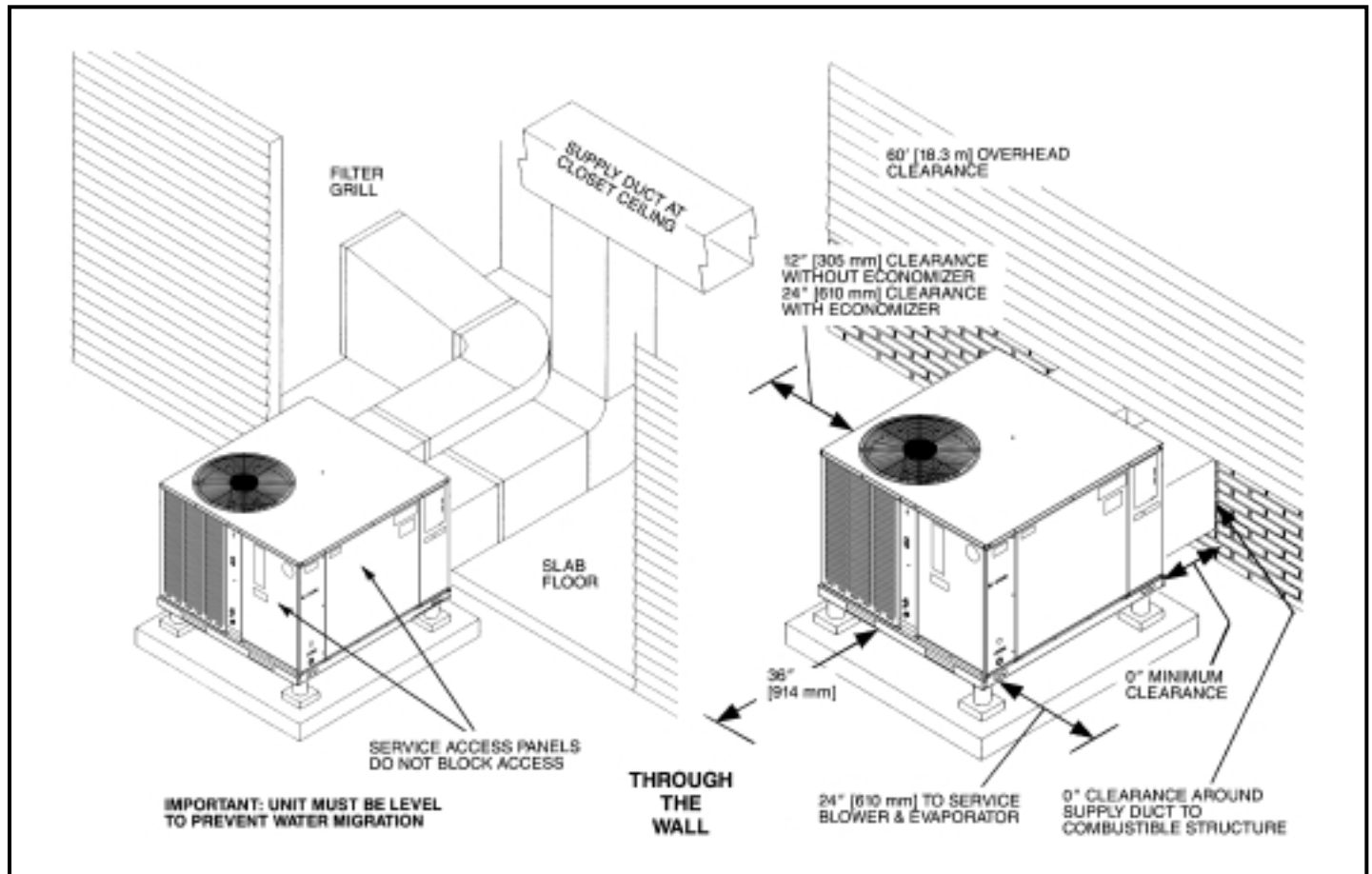
IMPORTANT:
INSTALLATION MUST NOT INTERFERE WITH DRAINAGE OPENINGS IN BOTTOM OF UNIT UNDER OUTDOOR COIL.

Model Number	Height "A"
024	35 ¹⁵ / ₁₆
030, 036, 042, 048	41

IMPORTANT:
UNIT MUST BE LEVEL TO PREVENT WATER MIGRATION.

[] Designates Metric Conversions

TYPICAL INSTALLATIONS

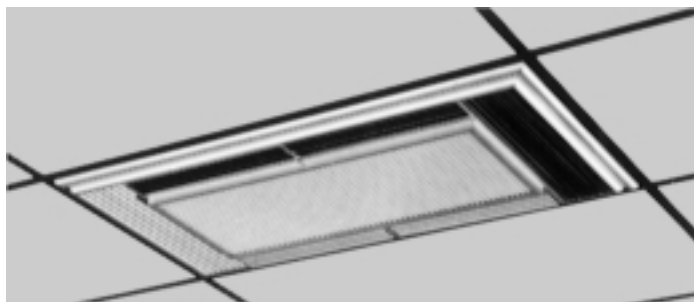


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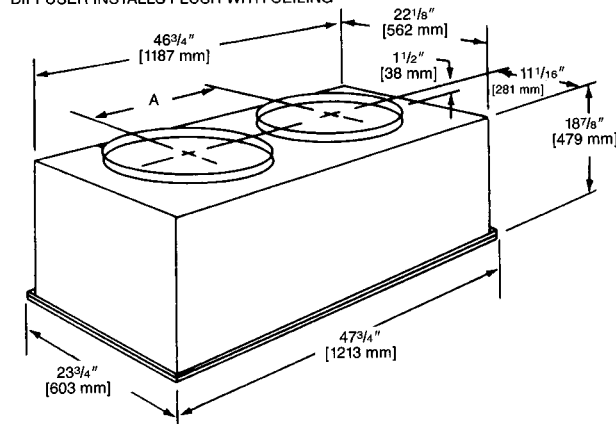
ACCESSORY EQUIPMENT

Accessory Description	Model Application	Accessory Model No.
Roofcurbs	TZHC-3/TZHC-4	RXQG-AAA14 (14" [356 mm] Height) RXQG-AAA24 (24" [610 mm] Height)
Supply & Return Diffusers	TZHC-3/TZHC-4	RXRN-BD15
Economizers (Downflow Only)	TZHC-3/TZHC-4	RXRE-CAA30 (3 Position) RXRD-CAM10 (Fully Modulating)
Economizers (Sideflow Only)	TZHC-3/TZHC-4	RXRD-CCM10 (Fully Modulating) RXRE-CCA30 (3 Position)
Fresh Air Damper	TZHC-3/TZHC-4	RXRF-FAB1 (Motorized-35%) RXRF-FAA1 (Fixed-35%)
Rectangular to Round Transition (Downflow)	TZHC-3/TZHC-4	RXMC-CA02 (16" [406 mm] Ducts) RXMC-CA03 (18" [457 mm] Ducts)
Filter Kit	TZHC-3/TZHC-4	RXRY-B01
High Pressure Control	TZHC-3/TZHC-4	RXAB-A04
Outdoor Thermostat	TZHC-3/TZHC-4	RXPT-A01
Low Ambient Control	TZHC-3/TZHC-4	RXPZ-C01 or RXPZ-F01
Duct Adapter Sideflow Square to Round Transition	TZHC-3/TZHC-4	RXMC-BA01
Lift Kit	TZHC-3/TZHC-4	RXML-A01

COMMON SUPPLY/RETURN CONCENTRIC AIR DIFFUSER



DIFFUSER INSTALLS FLUSH WITH CEILING



SUPPLY/RETURN DIFFUSER



Designed to convert a side by side or an over and under arrangement into a concentric distribution of air. The diffuser is flush mounted, completely insulated, assembled, and internally baffled to provide four way supply air distribution with a center return. To make the assembly complete and ready to fit into a 2' [0.61 m] x 4' [1.22 m] suspended ceiling grid, the diffuser includes adjustable supply louvers, hanging rings, anti-sweat gasket, and round flanges for use with flexible ducts.

Model No.	Diameter Inches [mm]	Shipping Wt. Lbs. [kg]	Dimension A Inches [mm]
RXRN-BD15	16 [406]	90 [40.82]	20 1/2 [521]

NOTE: The location of the combination supply and return diffuser should not exceed 10 feet [3.05 m] above the floor level for units @ 1000 CFM [472 L/s] or less and 12 [3.66 m] to 14 feet [4.27 m] above the floor level for units with CFM greater than 1000 [472 L/s]. If the diffuser is installed with a greater distance than recommended above, the supply air may become stratified above the required comfort area causing uncomfortable conditions.

AIRFLOW/PRESSURE DROP INFORMATION (INCHES W.C. [kPa])

Accessory	Approximate CFM [L/s]-Supply Air			
	1300 [614]	1575 [743]	1800 [850]	2200 [1038]
Plenum & Supply/Return Duct	.07 [.017]	.10 [.024]	.12 [.030]	.17 [.042]
Diffuser	.09 [.022]	.13 [.032]	.16 [.040]	.24 [.060]
Economizer	.06 [.015]	.09 [.022]	.11 [.027]	.17 [.042]

SUPPLY AIR/PERFORMANCE

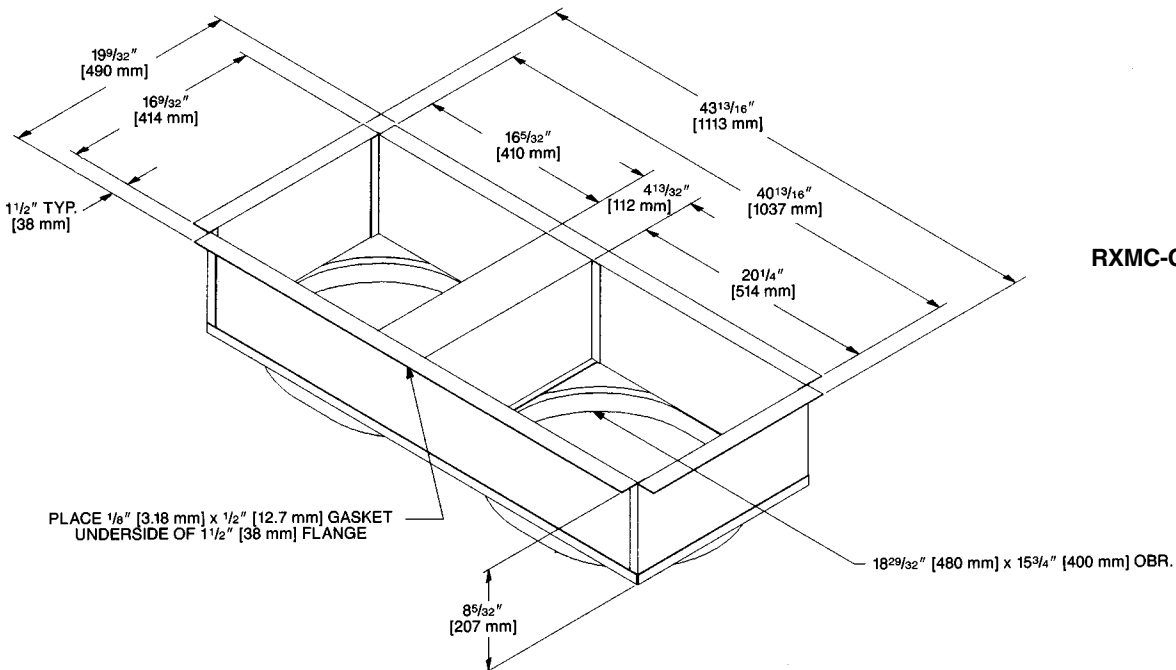
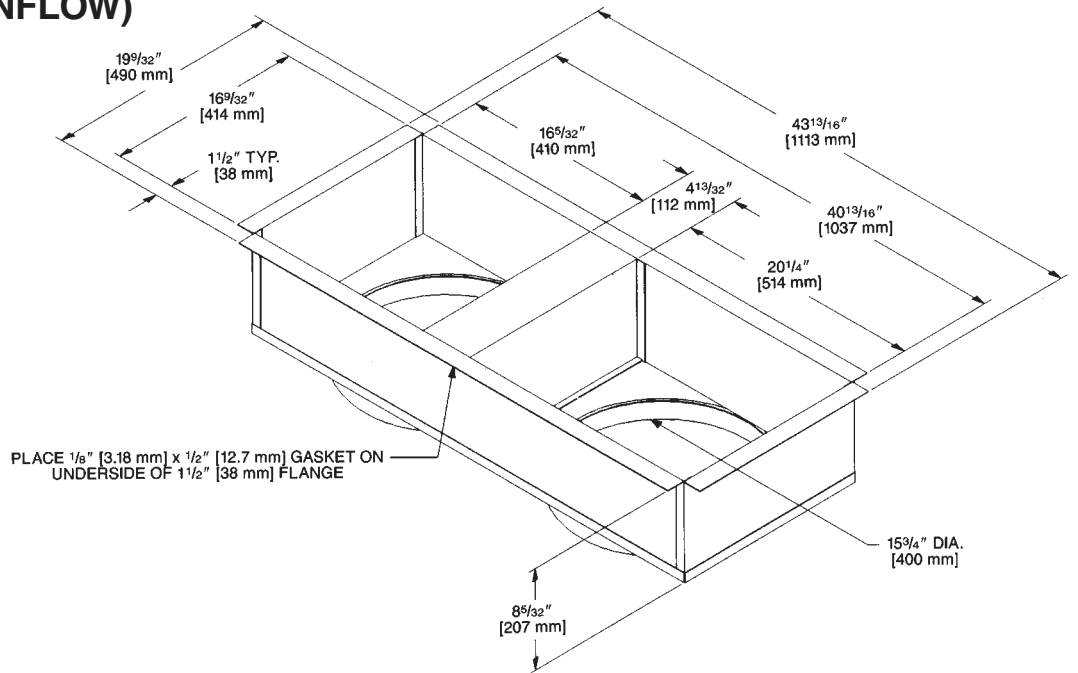
Diffuser Airflow CFM [L/s]	Range of Throw Ft. [m]
800 [378]-1200 [566]	14 [4.27]-16 [4.88]
1600 [755]-2000 [944]	18 [5.49]-28 [8.53]

[] Designates Metric Conversions

ACCESSORIES

DUCT ADAPTERS RECTANGULAR TO ROUND TRANSITIONS (DOWNFLOW)

RXMC-CA02



RXMC-CA03

[] Designates Metric Conversions

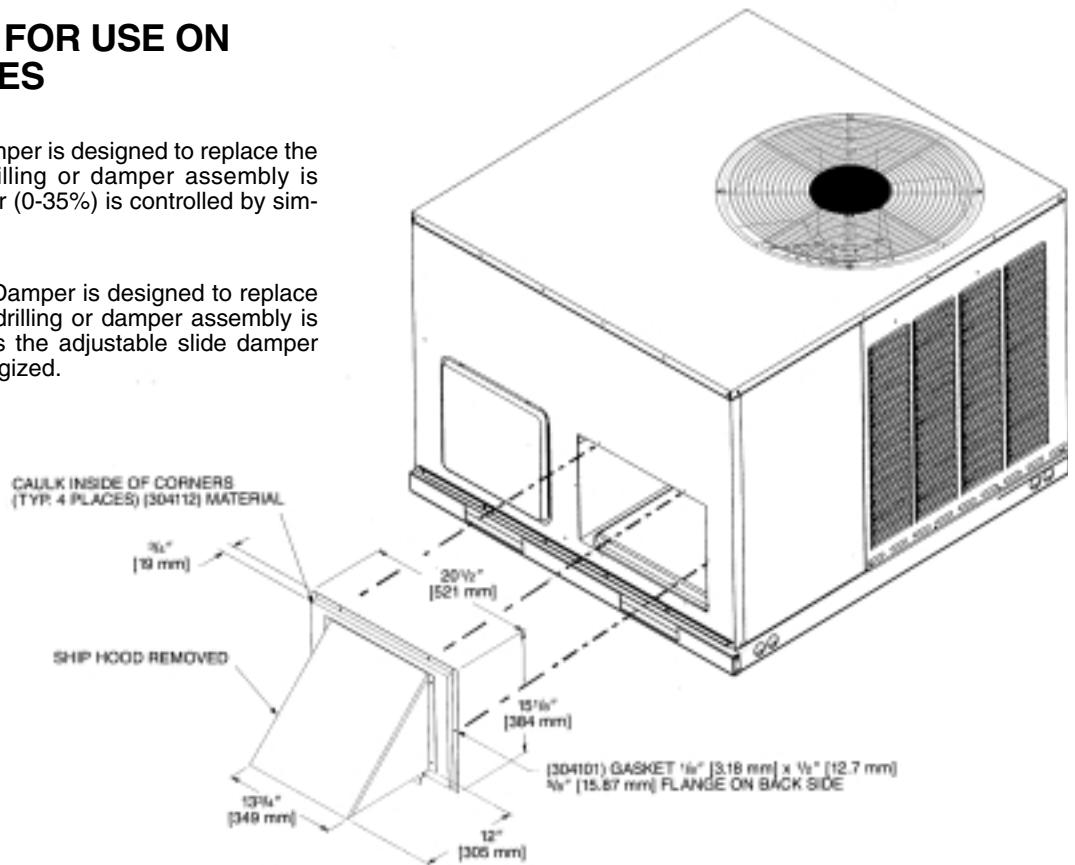
FRESH AIR DAMPER FOR USE ON TZHC-3/TZHC-4 SERIES

RXRF-FAA1 (Fixed - 0-35%)

The 0-35% manual outside Air Damper is designed to replace the unit return air duct cover. No drilling or damper assembly is required. The amount of outside air (0-35%) is controlled by simply adjusting the side damper.

RXRF-FAB1 (Motorized - 0-35%)

The 0-35% motorized outside Air Damper is designed to replace the unit return air duct cover. No drilling or damper assembly is required. The control motor opens the adjustable slide damper when the unit blower motor is energized.



ECONOMIZERS

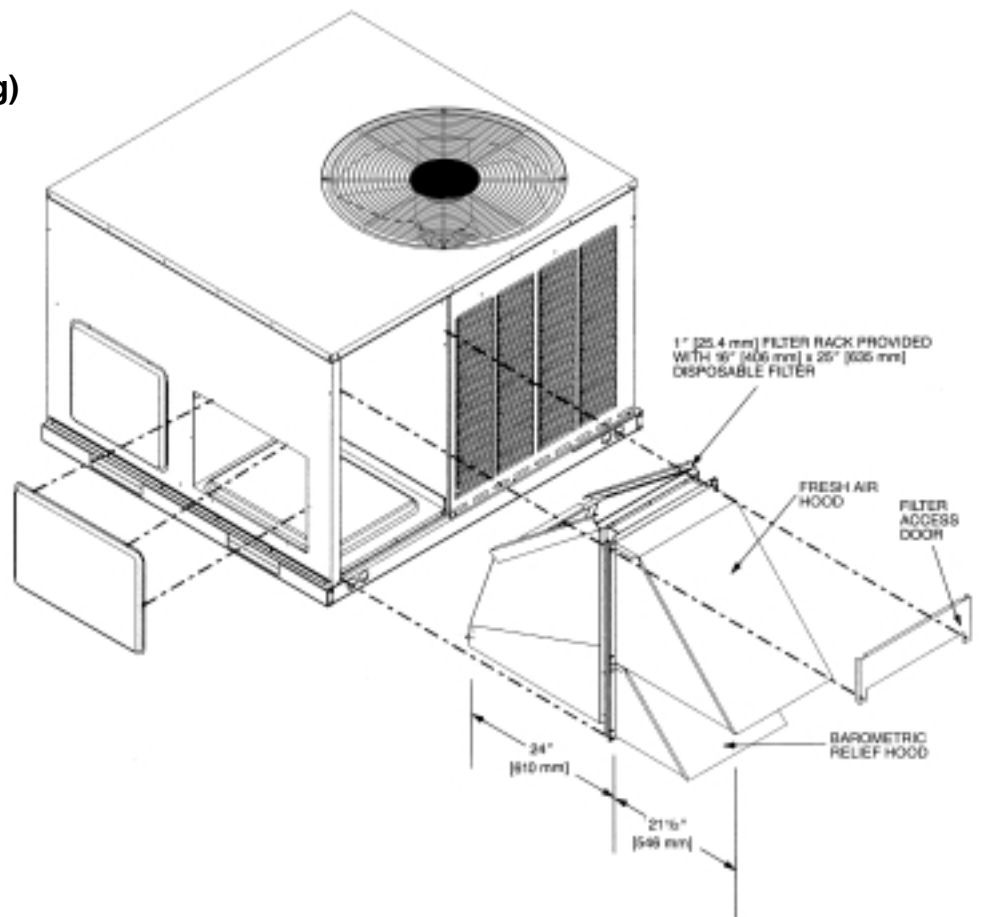
RXRE-CAA30 (3 Position) and RXRD-CAM10 (Fully Modulating) Downflow Application

RXRE-CAA30 (3 Position)

Provided with enthalpy control, and mixed air sensor. Settings include fully open, fully closed and adjustable mid point.

RXRD-CAM10 (Fully Modulating)

Provided with enthalpy control, mixed air sensor and minimum position potentiometer for proportioning (modulating) the amount of fresh air.



[] Designates Metric Conversions

ECONOMIZERS

RXRD-CCM10 (Fully Modulating) and RXRE-CCA30 (3 Position) Horizontal Application

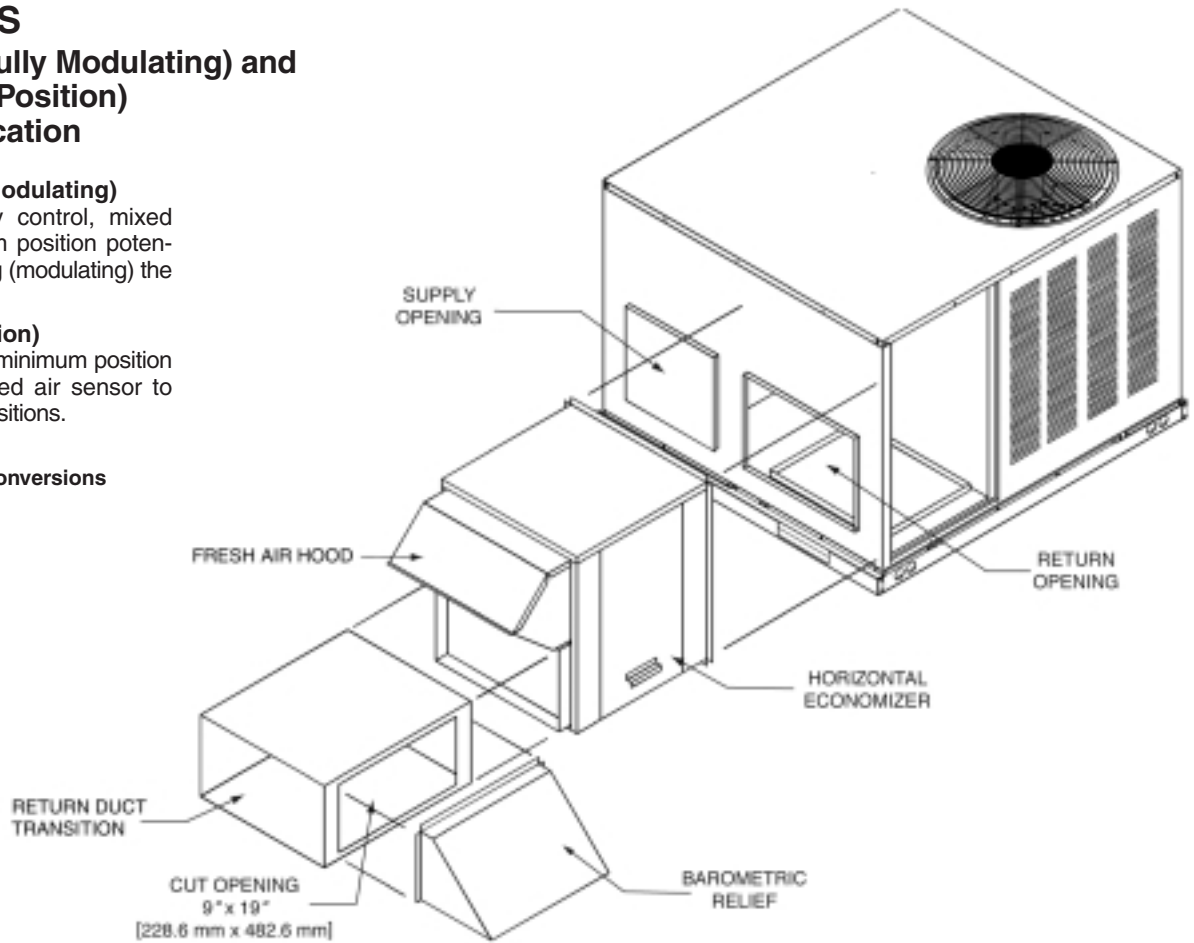
RXRD-CCM10 (Fully Modulating)

Provided with enthalpy control, mixed air sensor and minimum position potentiometer for proportioning (modulating) the amount of fresh air.

RXRE-CCA30 (3-Position)

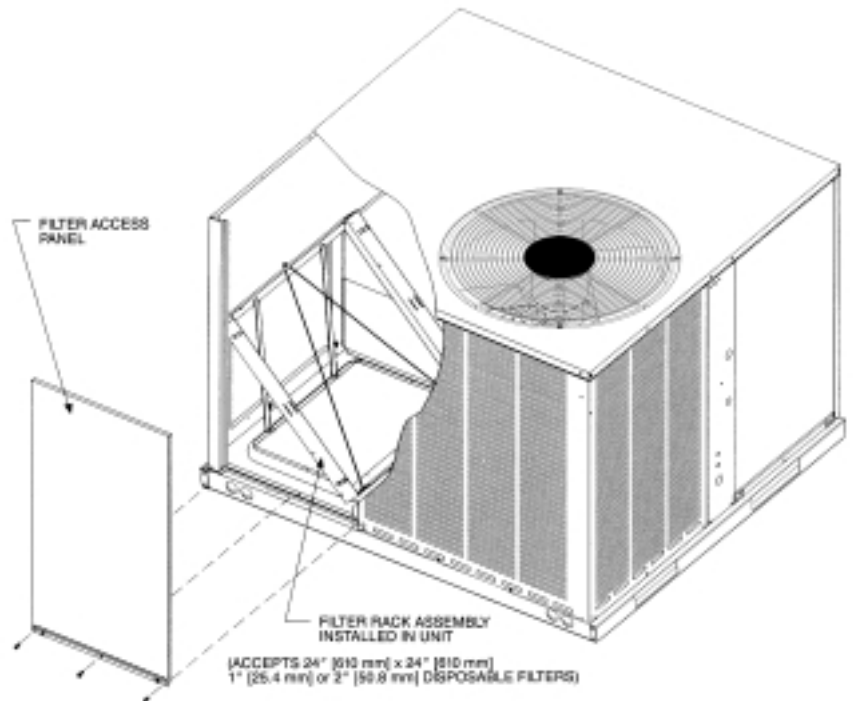
Has outdoor air sensor, minimum position potentiometer, and mixed air sensor to provide three damper positions.

[] Designates Metric Conversions



FILTER KIT INSTALLATION RXRY-B01

For use in either vertical
or horizontal discharge.



CFM [L/s]		
Minimum Airflow	Nominal Airflow	Maximum Airflow
510 [241]	600 [283]	660 [311]
680 [321]	800 [378]	880 [415]
850 [401]	1000 [472]	1100 [519]
1020 [481]	1200 [566]	1320 [623]
1190 [562]	1400 [661]	1540 [727]
1275 [602]	1500 [708]	1650 [779]
1700 [802]	2000 [944]	2200 [1039]

[] Designates Metric Conversions

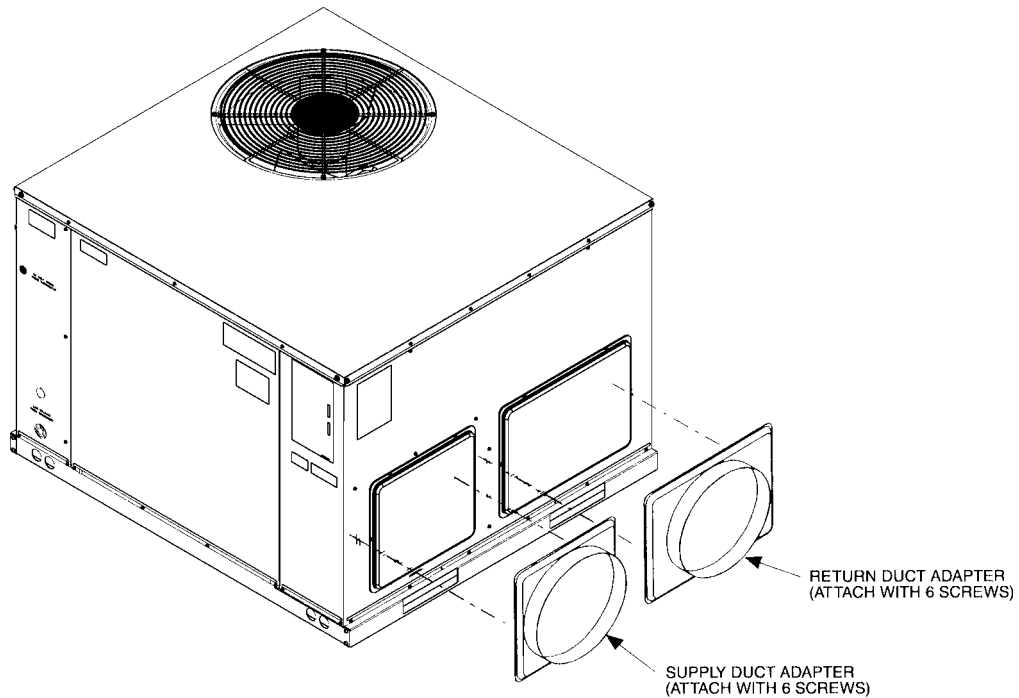
Airflow Pressure Drop, Inches W.C. [kPa]		
CFM [L/s]	1" Filter	2" Filter
500 [236]	.02 [.0050]	.03 [.0075]
600 [283]	.02 [.0050]	.03 [.0075]
700 [330]	.03 [.0075]	.04 [.0101]
800 [378]	.04 [.0101]	.05 [.0124]
900 [425]	.05 [.0124]	.06 [.0149]
1000 [472]	.07 [.0174]	.08 [.0199]
1100 [519]	.08 [.0199]	.09 [.0224]
1200 [566]	.10 [.0249]	.12 [.0299]
1300 [614]	.13 [.0324]	.15 [.0373]
1400 [661]	.16 [.0398]	.19 [.0473]
1500 [708]	.19 [.0473]	.21 [.0523]
1600 [755]	.20 [.0498]	.23 [.0572]
1700 [802]	.21 [.0523]	.24 [.0598]
1800 [850]	.22 [.0548]	.25 [.0623]
1900 [897]	.24 [.0598]	.27 [.0672]
2000 [944]	.26 [.0647]	.29 [.0722]

ACCESSORIES

DUCT ADAPTER SIDEFLOW SQUARE TO ROUND TRANSITION RXMC-BA01

Adapts the side rectangular supply and return openings to 14" [356 mm] diameter round openings. Adapters provided with same finish as unit and also provided with thermal insulation.

[] Designates Metric Conversions

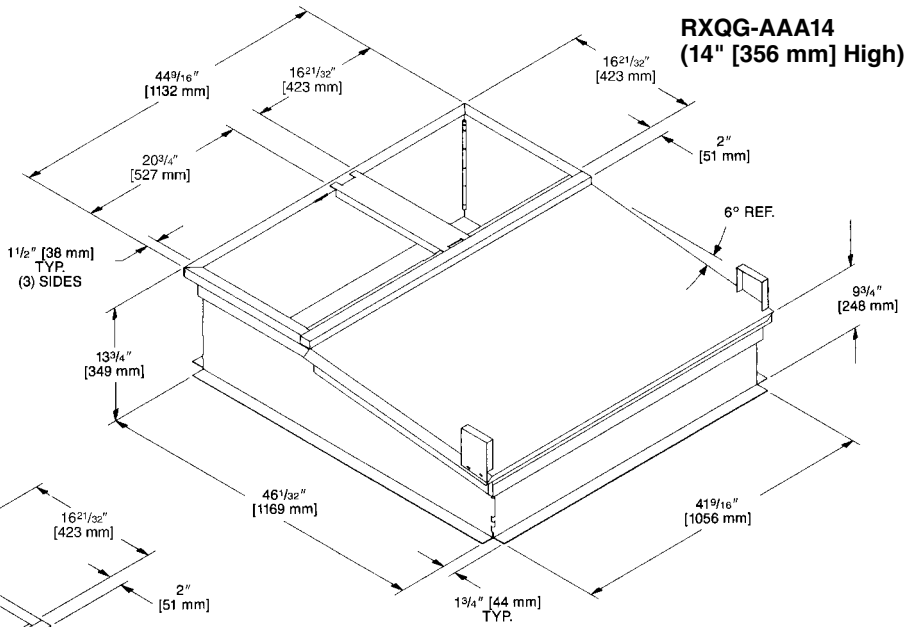
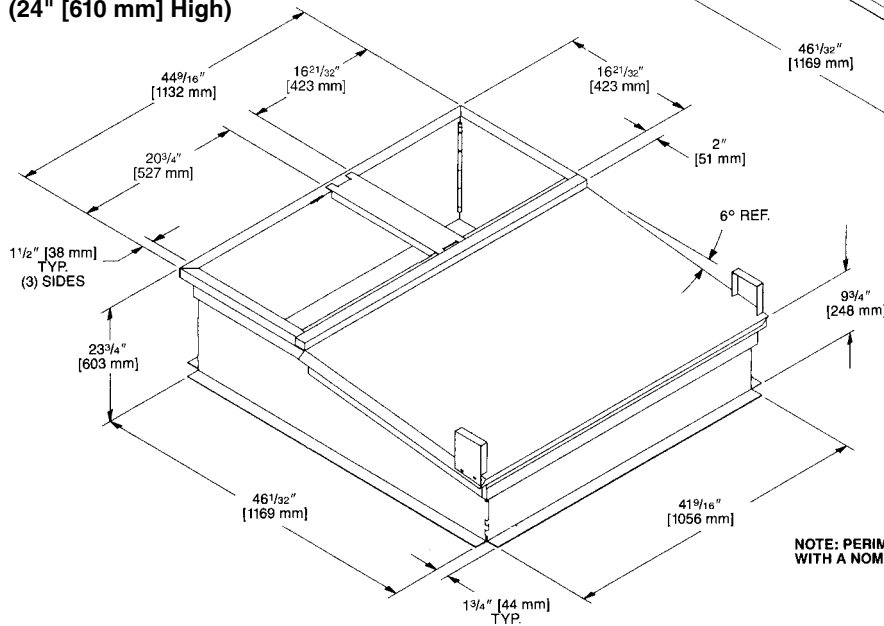


Roofcurb (Sloped) RXQG-AAA14 & RXQG-AAA24 for TZHC-3/TZHC-4 Series

Note: Heat pump models must use sloped curbs.

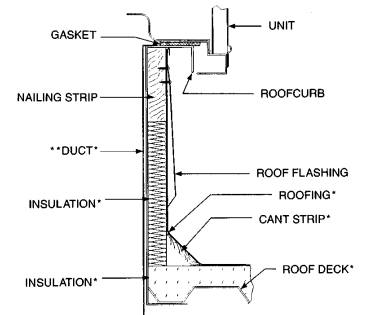
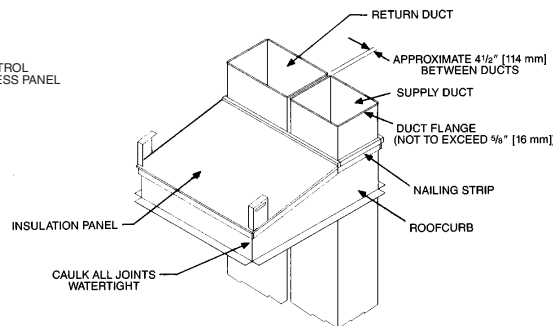
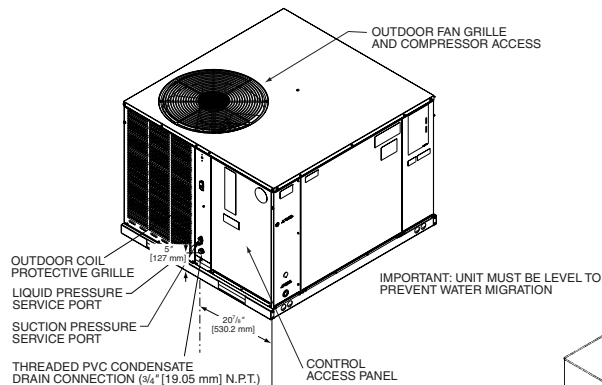
Hinged corners make for fast, easy set-up.

RXQG-AAA24 (24" [610 mm] High)



NOTE: PERIMETER OF ROOFCURB IS SUPPLIED WITH A NOMINAL 1" [25.4 mm] x 4" [102 mm] PINE NAILING STRIP.

Packaged Heat Pump Roofcurb Installation (Sloped)

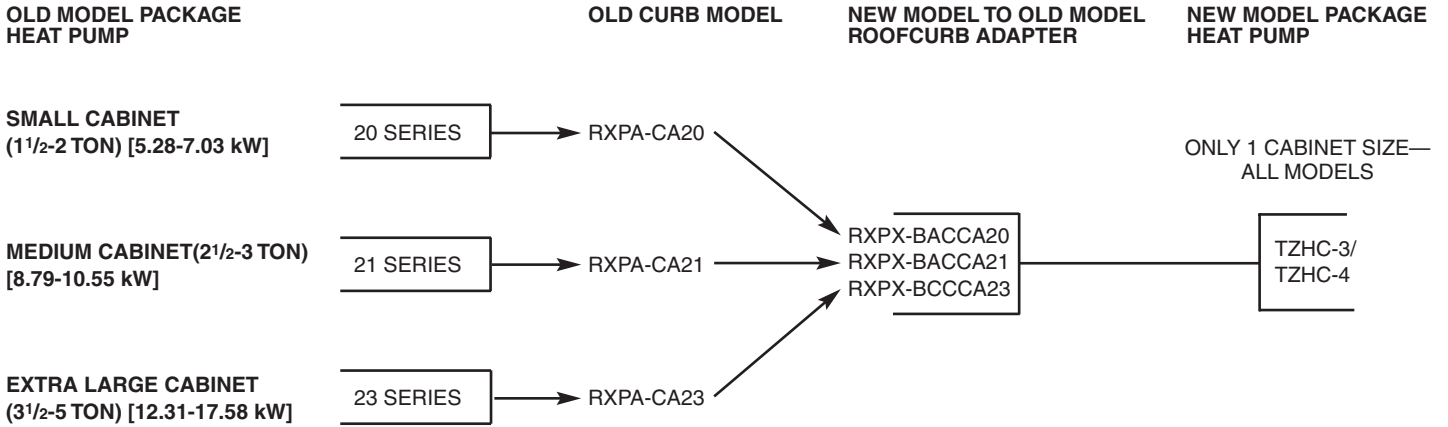


*BY CONTRACTOR
**FOR INSTALLATION OF DUCT AS SHOWN, USE RECOMMENDED DUCT SIZES FROM ROOFCURB INSTALLATION INSTRUCTIONS. FOR DUCT FLANGE ATTACHMENT TO UNIT, SEE UNIT INSTALLATION INSTRUCTIONS FOR RECOMMENDED DUCT SIZES.

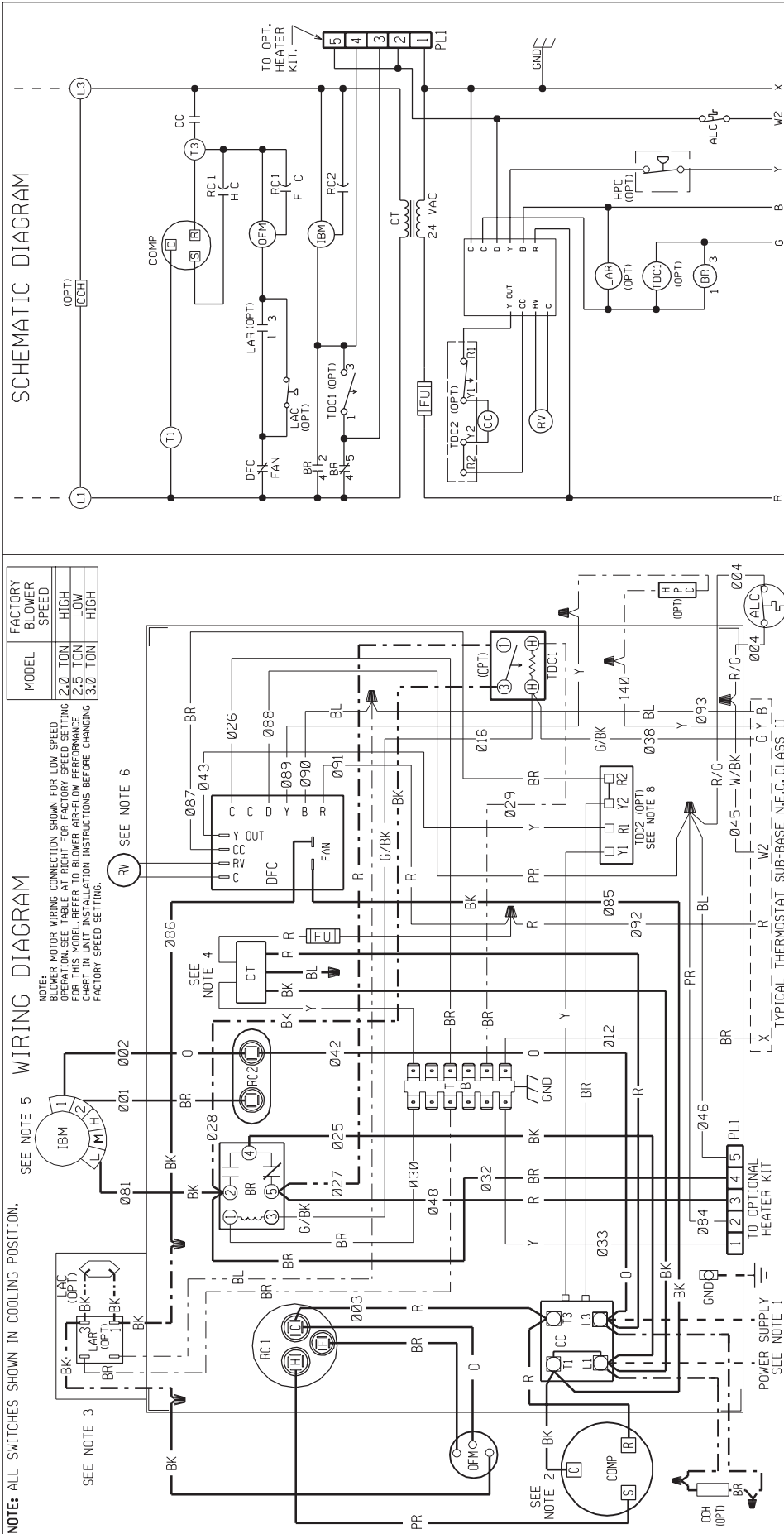
ACCESSORIES

ROOFCURB ADAPTERS

Fabricated from galvanized steel to adapt the New cabinet to the old style curb. All are furnished with a New gasket.



[] Designates Metric Conversions



SCHEMATIC DIAGRAM

MODEL	FACTORY BLOWER SPEED
2.0 TON	HIGH
2.5 TON	LOW
3.0 TON	HIGH

NOTE: BLOWER MOTOR WIRING CONNECTION SHOWN FOR LOW SPEED OPERATION. SEE TABLE AT RIGHT FOR FACTORY SPEED SETTING FOR THIS MODEL. REFER TO BLOWER AIR-FLOW PERFORMANCE CHART IN UNIT INSTALLATION INSTRUCTIONS BEFORE CHANGING FACTORY SPEED SETTING.

WIRING DIAGRAM

NOTE: ALL SWITCHES SHOWN IN COOLING POSITION.

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

PACKAGE HEAT PUMP
 1 PH, 208-230 VOLT
 PSC INDOOR BLOWER MOTOR

DR. BY: KDF APP. BY: DATE: 03-15-05 DWG. NO.: 90-23621-12 REV: 04

WIRING INFORMATION

LINE VOLTAGE
 -FACTORY STANDARD
 -FACTORY OPTION
 -FIELD INSTALLED

LOW VOLTAGE
 -FACTORY STANDARD
 -FACTORY OPTION
 -FIELD INSTALLED

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.

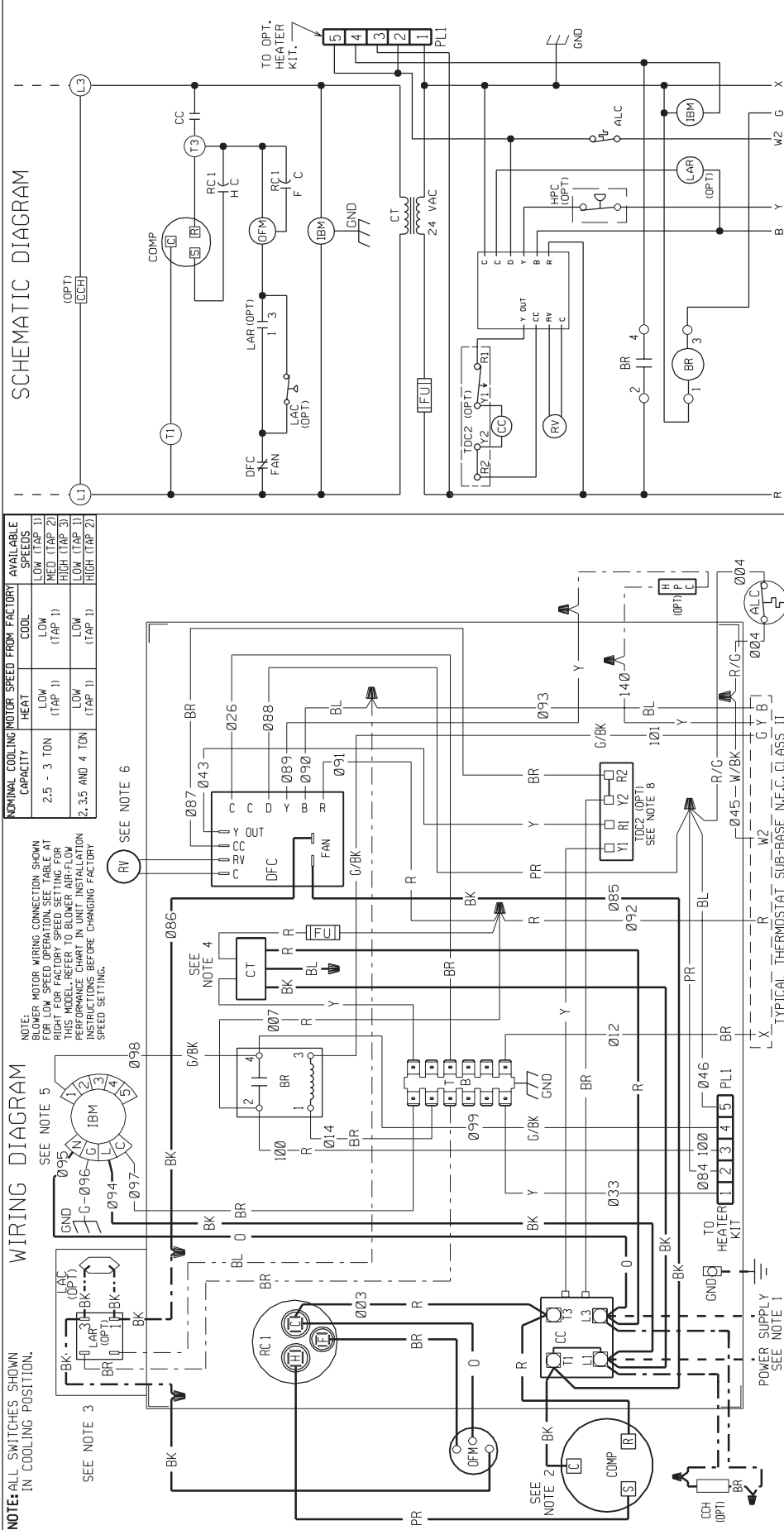
NOTES:

- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
- COMPRESSOR MOTOR THERMALLY PROTECTED.
- IF LAC/LAR IS NOT USED, CONNECT BLACK WIRE FROM OFM TO WIRE NUT FROM DR
- TRANSFORMER FACTORY WIRING FOR 230 VOLTS. USE RED AND BLUE LEADS FOR 208 VOLTS.
- MOTOR FACTORY WIRING FOR CORRECT SPEED.
- THIS COMPONENT ENERGIZED IN HEATING.
- SEE FUSE LABEL ON CONTROL BOX COVER FOR FUSE SIZING AND CLASSIFICATION.
- BROWN & YELLOW WIRES ARE CONTINUOUS IF OPTIONAL TDCC IS NOT PRESENT.

COMPONENT CODE

ALC LOW AMBIENT COOLING CONTROL
 LAR LOW AMBIENT RELAY
 CC CRANKCASE HEATER
 CCH INDOOR FAN MOTOR CONTROL
 COMP TRANSFORMER
 DFC DEFROST CONTROL
 FU FUSE
 GND GROUND
 HPC HIGH PRESSURE CONTROL
 IBM INDOOR BLOWER MOTOR

WIRING SCHEMATICS—TZHC-3 SERIES



MINIMAL COOLING MOTOR CAPACITY	HEAT	COOL	AVAILABLE SPEEDS
2.5 - 3 TON	LOW (TAP 1)	LOW (TAP 1)	LOW (TAP 2)
2.5 - 3 TON	LOW (TAP 1)	LOW (TAP 1)	MED (TAP 2)
2.5 - 3 TON	LOW (TAP 1)	LOW (TAP 1)	HIGH (TAP 3)
2.5 - 3 TON	LOW (TAP 1)	LOW (TAP 1)	LOW (TAP 1)
2.5 - 3 TON	LOW (TAP 1)	LOW (TAP 1)	HIGH (TAP 2)

COMPONENT CODE	DESCRIPTION
ALC	AUX. LIMIT CONTROL
BR	BLOWER RELAY
CC	COMPRESSOR CONTACTOR
CCCH	CRANKCASE HEATER
COMP	COMPRESSOR
CT	CONTROL TRANSFORMER
DFC	DEFROST CONTROL
FU	FUSE
GND	GROUND
HPC	HIGH PRESSURE CONTROL
IBM	INDOOR BLOWER MOTOR
LAC	LOW AMBIENT COOLING CONTROL
LAR	LOW AMBIENT RELAY
OFM	OUTDOOR FAN MOTOR
OPT	OPTIONAL
PLUG	PLUG
RC	RUN CAPACITOR
RV	REVERSING VALVE
TB	TERMINAL BLOCK
TDC	TIME DELAY CONTROL
WIRE NUT	WIRE NUT

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

ELECTRICAL WIRING DIAGRAM

PACKAGE HEAT PUMP

1 PH, 208-230 VOLT

X-13 INDOOR BLOWER MOTOR

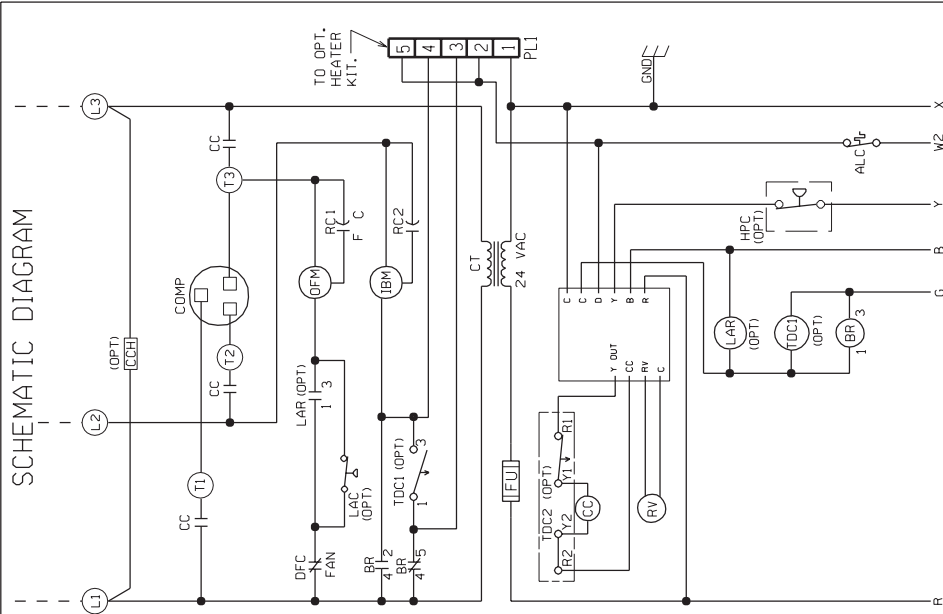
DR. BY DATE: KDF 03-15-05

DWG. NO.: 90-23621-13

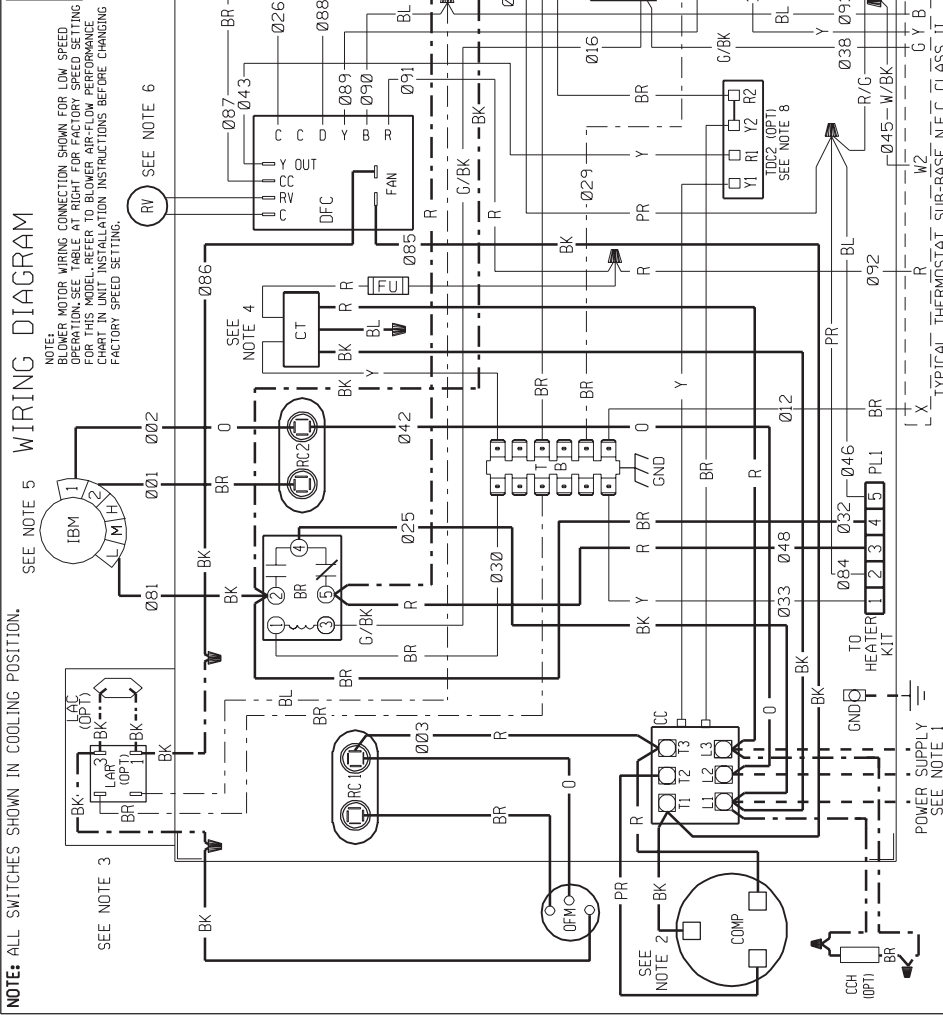
REV: 06

- 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.
 - IF LAC/LAR IS NOT USED, CONNECT BLACK WIRE FROM OFM TO WIRE NUT FROM DR
 - TRANSFORMER FACTORY WIRING FOR 230 VOLTS. USE RED AND BLUE LEADS FOR 208 VOLTS.
 - MOTOR FACTORY WIRING FOR CORRECT SPEED.
 - THIS COMPONENT ENERGIZED IN HEATING.
 - SEE FUSE LABEL ON CONTROL BOX COVER FOR FUSE SIZING AND CLASSIFICATION.
 - BROWN & YELLOW WIRES ARE CONTINUOUS IF OPTIONAL TDC IS NOT PRESENT.



MODEL	FACTORY BLOWER SPEED
3.0 TON	HIGH



NOTE: ALL SWITCHES SHOWN IN COOLING POSITION.

NOTE: BLOWER MOTOR WIRING CONNECTION SHOWN FOR LOW SPEED OPERATION. SEE TABLE AT RIGHT FOR FACTORY SPEED SETTING FOR THIS MODEL. REFER TO BLOWER AIR-FLOW PERFORMANCE CHART IN UNIT INSTALLATION INSTRUCTIONS BEFORE CHANGING FACTORY SPEED SETTING.

SEE NOTE 5 WIRING DIAGRAM

SEE NOTE 6

SEE NOTE 4

SEE NOTE 2

SEE NOTE 1

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

ELECTRICAL WIRING DIAGRAM
PACKAGE HEAT PUMP
 3 PH, 208-230 VOLT
 PSC INDOOR BLOWER MOTOR

WIRING INFORMATION

LINE VOLTAGE
 -FACTORY STANDARD
 -FACTORY OPTION
 -FIELD INSTALLED

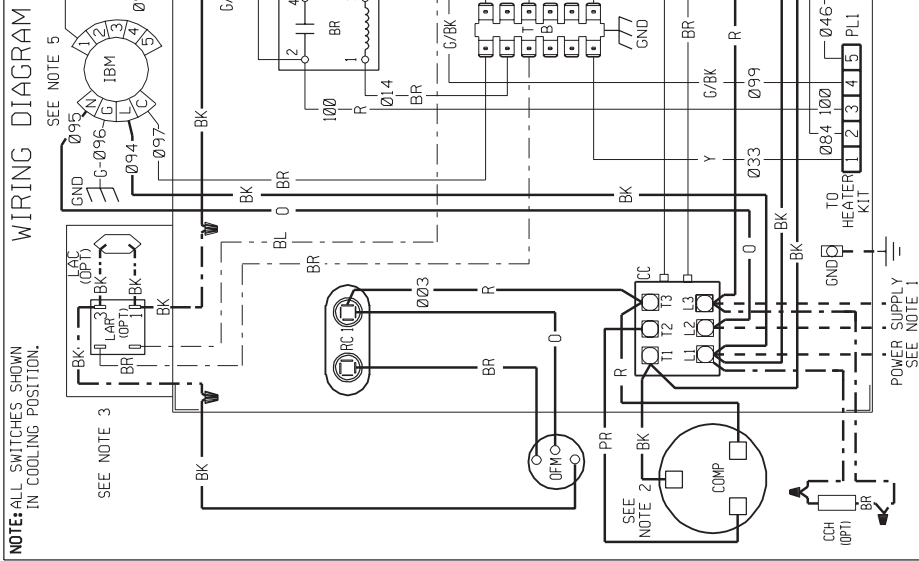
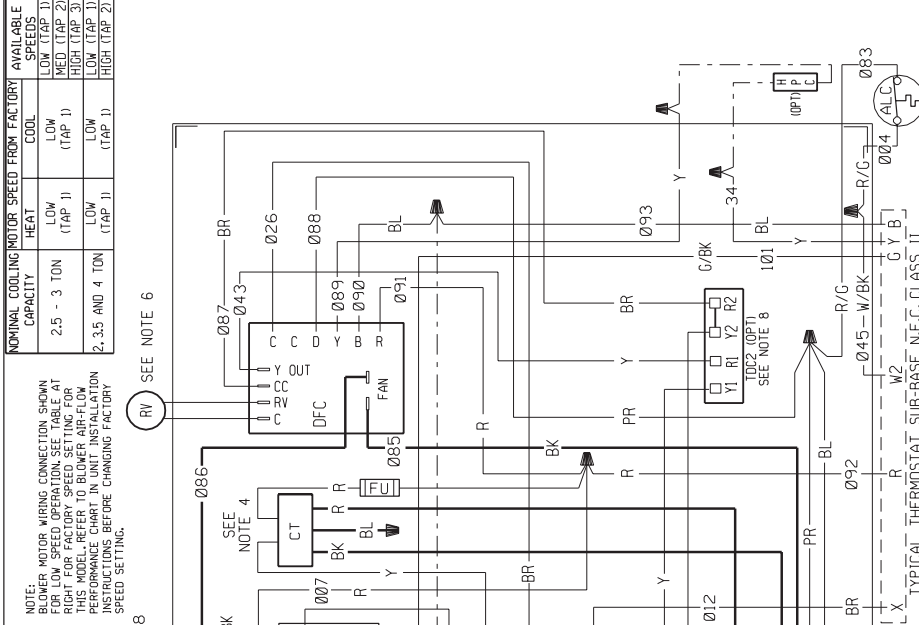
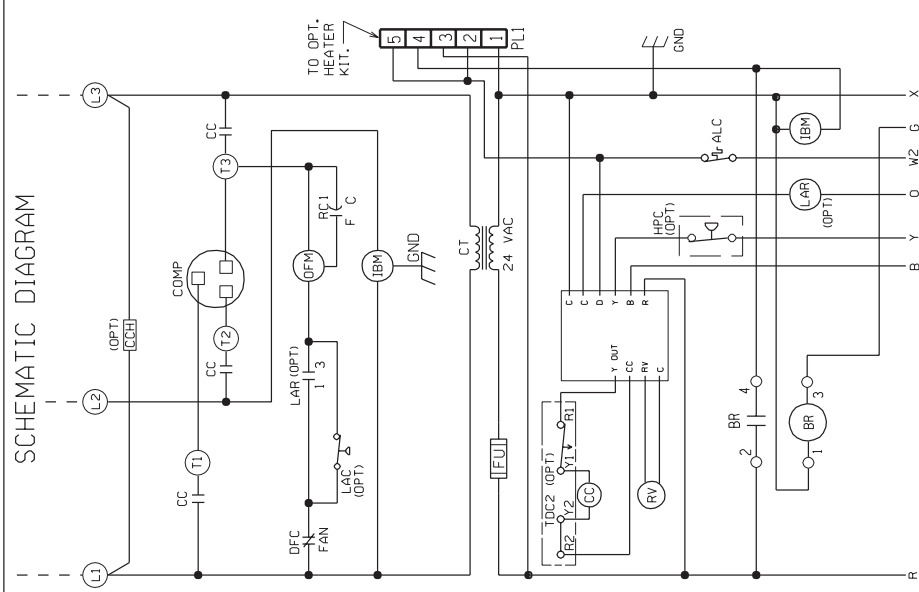
LOW VOLTAGE
 -FACTORY STANDARD
 -FACTORY OPTION
 -FIELD INSTALLED

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., AND LOCAL CODES AS APPLICABLE.

COMPONENT CODE	
ALC	AUX. LIMIT CONTROL
BR	BLOWER RELAY
CC	COMPRESSOR CONTACTOR
CCH	CRANKCASE HEATER
COMP	COMPRESSOR
CT	CONTROL TRANSFORMER
DFC	DEFROST CONTROL
GND	GROUND
HPC	HIGH PRESSURE CONTROL
IBM	INDOOR BLOWER MOTOR
LAC	LOW AMBIENT COOLING CONTROL
LAR	LOW AMBIENT RELAY
CC	CRANKCASE HEATER
OPT	OPTIONAL
PL	PLUG CAPACITOR
RV	REVERSING VALVE
TB	TERMINAL BLOCK
TDC	TIME DELAY CONTROL
WIRE NUT	WIRE NUT

90-23621-14 REV 05

WIRING SCHEMATICS—TZHC-4 SERIES



MINIMAL COOLING MOTOR SPEED FROM FACTORY		AVAILABLE SPEEDS	
CAPACITY	HEAT	LOW (TAP 1)	HIGH (TAP 2)
2.5 - 3 TON	LOW (TAP 1)	LOW (TAP 1)	HIGH (TAP 2)
2.35 AND 4 TON	LOW (TAP 1)	LOW (TAP 1)	HIGH (TAP 2)

NOTE: BLOWER MOTOR WIRING CONNECTION SHOWN FOR LOW SPEED OPERATION. SEE TABLE AT RIGHT FOR FACTORY SPEED SETTING FOR HIGH SPEED OPERATION. SEE TABLE AT RIGHT FOR FACTORY SPEED SETTING FOR LOW SPEED OPERATION. SEE TABLE AT RIGHT FOR FACTORY SPEED SETTING FOR HIGH SPEED OPERATION. SEE TABLE AT RIGHT FOR FACTORY SPEED SETTING FOR LOW SPEED OPERATION.

NOTE: ALL SWITCHES SHOWN IN COOLING POSITION.

NOTE: BLOWER MOTOR WIRING CONNECTION SHOWN FOR LOW SPEED OPERATION. SEE TABLE AT RIGHT FOR FACTORY SPEED SETTING FOR HIGH SPEED OPERATION. SEE TABLE AT RIGHT FOR FACTORY SPEED SETTING FOR LOW SPEED OPERATION.

NOTE: ALL SWITCHES SHOWN IN COOLING POSITION.

WIRE COLOR CODE

BK_	BLACK	CY_	GRAY	R_	RED
BR_	BROWN	O_	ORANGE	W_	WHITE
BL_	BLUE	PK_	PINK	Y_	YELLOW
G_	GREEN	PR_	PURPLE		

ELECTRICAL WIRING DIAGRAM

PACKAGE HEAT PUMP

3 PH, 208-230 VOL.T

X-13 INDOOR BLOWER MOTOR

DR. BY: KDF
APP. BY: DATE
DWG. NO. 90-23621-15
REV 06

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.

COMPONENT CODE

ALC	AUX. LIMIT CONTROL
BR	BLOWER RELAY
CC	COMPRESSOR CONTACTOR
CC	CRANKCASE HEATER
COMP	COMPRESSOR
CT	CONTROL TRANSFORMER
DFC	DEFROST CONTROL
FC	FUSE
FUD	FUSE AND
GUSE	GAS USE
HPC	HIGH PRESSURE CONTROL
IBM	INDOOR BLOWER MOTOR
LAC	LOW AMBIENT COOLING CONTROL
LAR	LOW AMBIENT RELAY
OFM	OUTDOOR FAN MOTOR
OPT	OPTIONAL
PL	PLUG
PLUG	PLUG CAPACITOR
TRV	TEMPERATURE VALVE
TRV	TEMPERATURE VALVE
TDC	TIME DELAY CONTROL
WIRE NUT	WIRE NUT

90-23621-15 REV 06

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.

Electric Heating Elements for Optional Electric Heating Kits	Five (5) Years
Compressor (1-Phase, Residential Applications)	Ten (10) Years
13 & 14 SEER 1 & 3-Phase Models (Commercial Applications).....	Five (5) Years
13 SEER 1 & 3-Phase Models	Five (5) Years
Any Other Part	
1-Phase Models (Residential Applications)	Five (5) Years
1 & 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."