



# PACKAGE AIR CONDITIONERS

FORM NO. ATZ-186 REV. 1  
Supersedes Form No. ATZ-186

## Featuring Earth-Friendly R-410A Refrigerant



## TZAH- HIGH EFFICIENCY 13-SEER SERIES NOMINAL SIZES 2-5 TONS [7-17.6 kW]

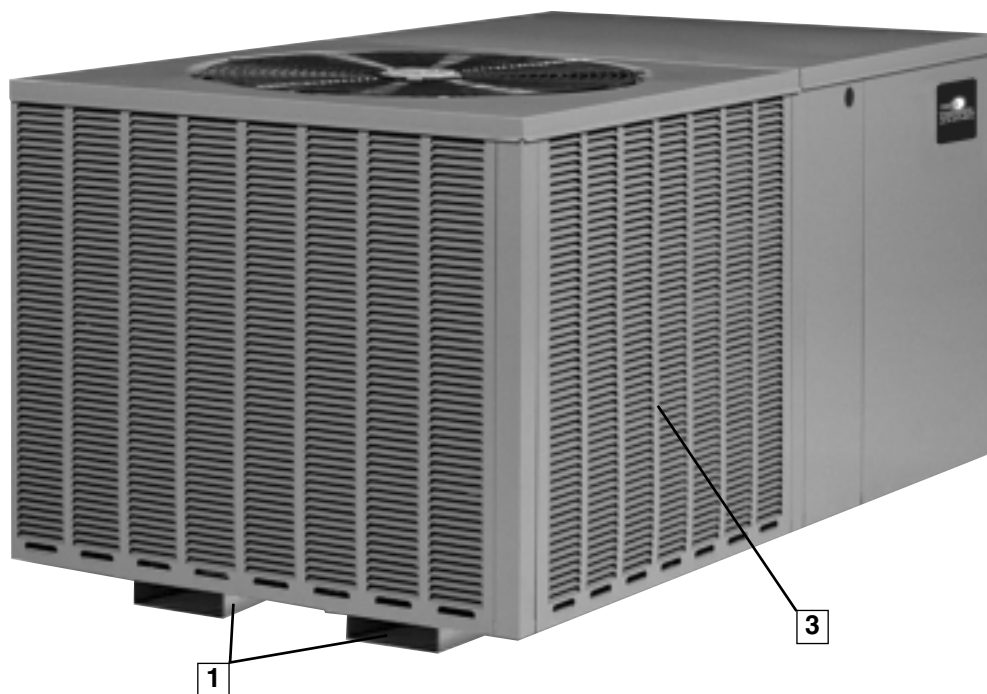


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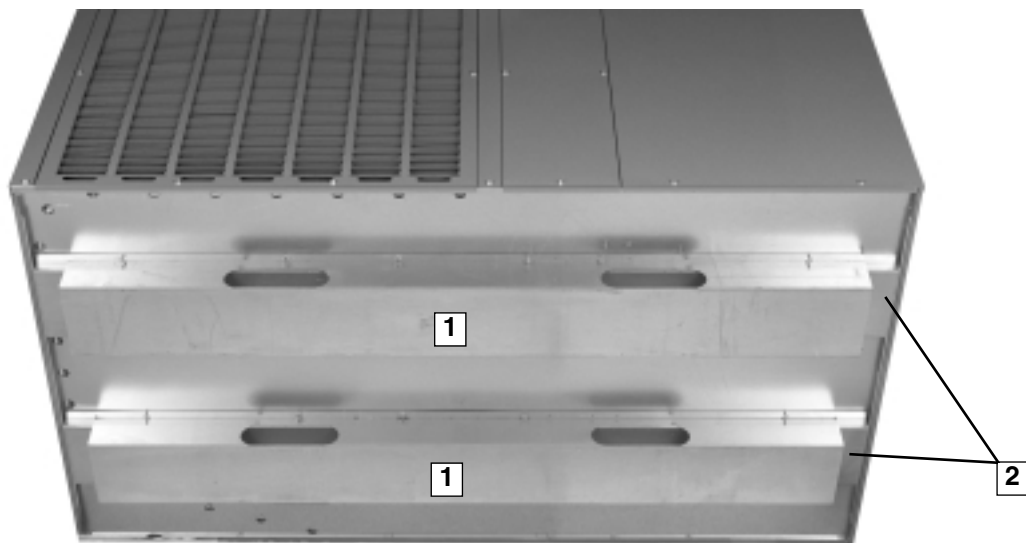
## UNIT FEATURES & BENEFITS—TZAH- SERIES



The TZAH series of Package Air Conditioners are designed to be the most efficient, quickest to install, easiest to service, and most reliable units in the industry - while still maintaining an affordable price. This platform provides you with a full line of nominal capacities from 2 through 5 tons utilizing earth-friendly R-410A refrigerant. This unit is suitable for use in mobile homes, manufactured housing and conventionally constructed residential and commercial buildings where horizontally-ducted systems are preferred. TZAH models are 13 SEER, and ARI-certified.

As with all units offered by Thermal Zone®, we started our design process with input from the customer. From fan grille to the base rails, Thermal Zone® has combined 30 years worth of package unit design experience with input from Dealers to meet the latest application requirements.

Starting at the bottom, the base rails (1) allow for separation between the unit base and the ground level, protecting the base from ground moisture and providing air circulation around the unit. Constructed from sturdy 14-gauge G-90 sheet metal, the base rails also allow for easier maneuverability during installation. In some instances, installers may choose to remove the base rails to allow for the lower installation clearances encountered in some homes. Once the base rails are removed, though, the base of the unit is still positioned above the pad by a shorter secondary base rail (2).



## UNIT FEATURES & BENEFITS—TZAH- SERIES

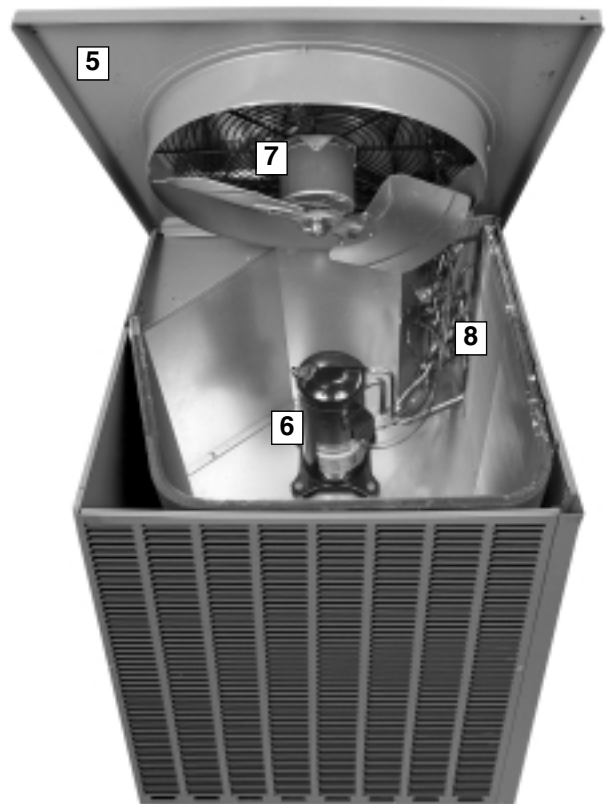


While other manufacturers have chosen to use pre-painted steel in their equipment, which exposes raw edges and invites rust and sharp edges, Thermal Zone® package equipment uses a powder-coat paint system, rated at 1000 hour salt spray per ASTM B117. The powder-coat process also greatly diminishes and dulls sharp edges, reducing the occurrence of cuts and torn clothes.

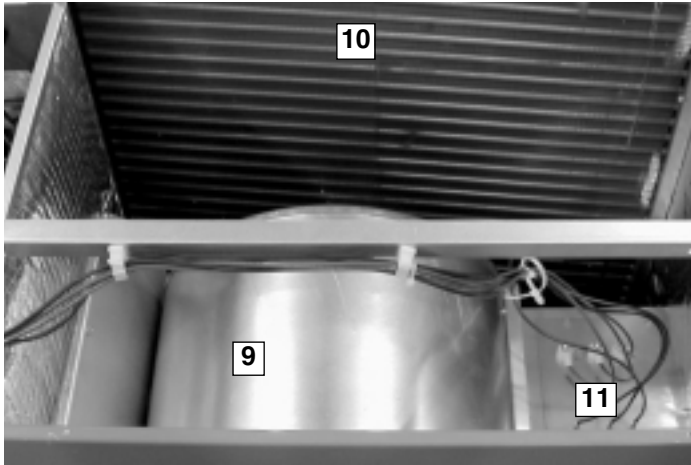
To provide flexibility in space-limited installations, the unit can be installed flush to the structure without blocking airflow over the outdoor coil or making any screws inaccessible for maintenance. Furthermore, the cabinet is a slim 33" wide. Full-louver coil protection ([3]) makes Thermal Zone® unique in the industry and also totally protects the outdoor coil from vandalism and weather extremes.

Two round 14" duct collar ([4]) are included with the unit, which makes attaching duct a snap. The collar is crimped around the leading edge, making it easier to install duct onto the collar. A metal bead around the circumference prevents the attached ducting from sliding off after installation.

Keeping service technicians in mind, Thermal Zone® takes pride providing easy access to internal components. The outdoor-section top cover ([5]) is easily removed to allow access to the the scroll compressor ([6]), outdoor fan motor ([7]), and refrigerant tubing ([8]).



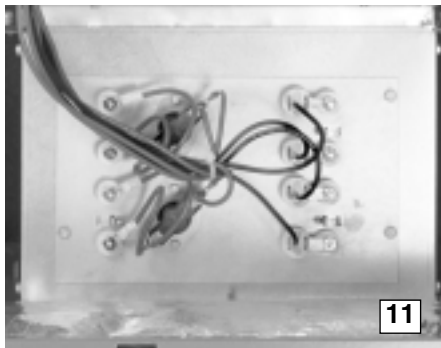
## UNIT FEATURES & BENEFITS—TZAH- SERIES



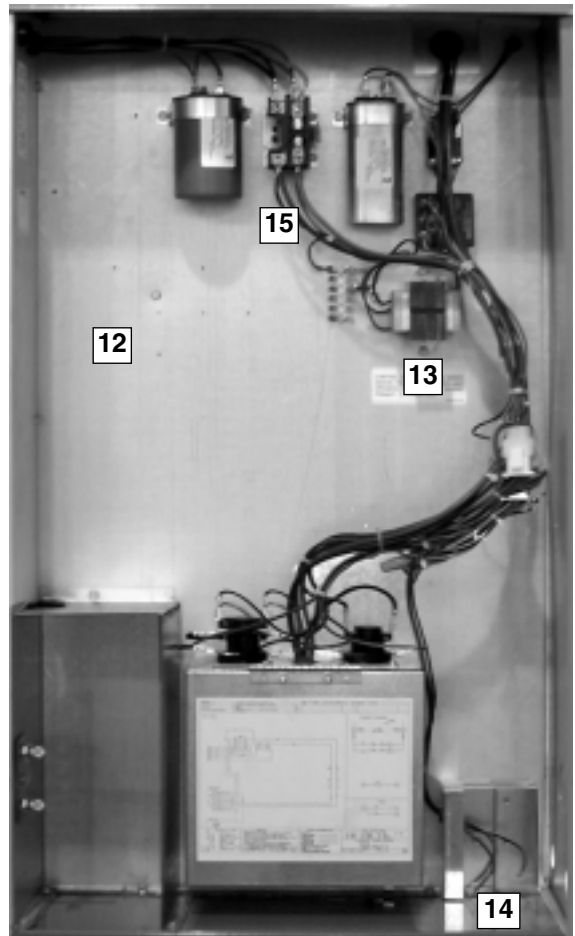
The indoor-section top cover also easily opens to access the removable blower housing and motor (9). This also gains total access to the indoor coil for cleaning and service (10).

The indoor motor and blower system will achieve nominal 400 CFM per ton up to a minimum of .8 inches of static pressure, which helps to eliminate customer dissatisfaction over poor airflow brought about by high-static duct designs.

Optional electric heat (11) can be specified as factory installed, or can be easily installed in the field, with either dual- or single-point power connections.

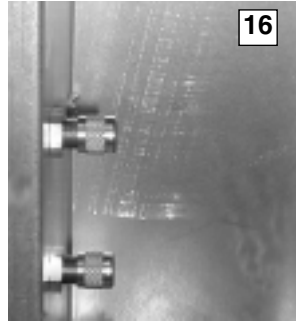


The controls are located in a large, easy-to-access control box (12), which provides plenty of space in which to troubleshoot. The transformer (13) is protected by an in-line fuse, which protects the transformer during a low-voltage electrical short. The low-voltage (14) and high-voltage (15) wiring connections are easily accessed and have ample room around which to maneuver. Troubleshooting is further aided with number- and color-coded wiring, which corresponds with the large, easy-to-read wiring diagram located on the inside of the control box access panel.



## UNIT FEATURES & BENEFITS—TZAH- SERIES

High and low refrigerant pressure can easily and accurately be measured using the two gauge ports (16) located inside the control box.



Foil-faced insulation is securely glued and captured to the cabinet. On the base of the unit, closed-cell insulation is used to prevent moisture from being absorbed and help reduce mold content to provide better indoor air quality.

For reliability and long-lasting operation, Thermal Zone® uses 100% scroll compressor technology (19) on all package platforms. With over 12 years of history, the scroll compressor has proven to be reliable, efficient, and quiet during operation.



A small side panel grants access to a removable, sloped drain pan (17), which helps to ensure indoor air quality (IAQ) throughout the life of the unit. A 3/4" drain trap (18) assembly is provided for convenience.



# MODEL IDENTIFICATION—TZAH- SERIES



<u>TZ</u>	<u>A</u>	<u>H</u>	—	<u>024</u>	—	<u>2</u>	<u>L</u>
Thermal Zone®	Air Conditioning	Horizontal		Nominal Cooling Capacity (BTUH) [kW]		Electrical Designation J = 208-230V-1PH-60Hz	L = R-410A Refrigerant
				024 = 24,000 [7.03 kW]			
				030 = 30,000 [8.79 kW]			
				036 = 36,000 [10.55 kW]			
				042 = 42,000 [12.31 kW]			
				048 = 48,000 [14.07 kW]			
				060 = 60,000 [17.59 kW]			

[ ] Designates Metric Conversions

# GENERAL DATA—TZAH- SERIES

## NOMINAL SIZES 2-5 TONS [7-17.6 kW]

Model TZAH- Series	24-2L	30-2L	36-2L	42-2L
<b>Cooling Performance<sup>1</sup></b>				<b>CONTINUED</b> →
Gross Cooling Capacity Btu [kW]	24,800 [7.27]	30,000 [8.79]	37,200 [10.9]	43,000 [12.6]
EER/SEER <sup>2</sup>	11.3/13	11.5/13	11.3/13	11.1/13
Nominal CFM/ARI Rated CFM [L/s]	800/800 [378/378]	1000/1000 [472/472]	1200/1200 [566/566]	1400/1400 [661/661]
ARI Net Cooling Capacity Btu [kW]	23,800 [6.97]	28,800 [8.44]	35,800 [10.49]	41,500 [12.16]
Net Sensible Capacity Btu [kW]	18,400 [5.39]	22,200 [6.5]	27,300 [8]	31,500 [9.23]
Net Latent Capacity Btu [kW]	5,400 [1.58]	6,600 [1.93]	8,500 [2.49]	10,000 [2.93]
Net System Power kW	2.1	2.5	3.17	3.74
<b>Compressor</b>				
No./Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>	76	76	76	76
<b>Outdoor Coil—Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm] OD	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	10.44 [0.97]	12.64 [1.17]	12.65 [1.18]	12.65 [1.18]
Rows / FPI [FPcm]	1 / 20 [8]	1 / 22 [9]	1 / 22 [9]	1 / 22 [9]
<b>Indoor Coil—Fin Type</b>	Louvered	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	4.33 [0.4]	4.33 [0.4]	4.33 [0.4]	5.78 [0.54]
Rows / FPI [FPcm]	2 / 15 [6]	2 / 15 [6]	2 / 15 [6]	3 / 13 [5]
Refrigerant Control	TX Valves	TX Valves	TX Valves	TX Valves
Drain Connection No./Size in. [mm] <sup>4</sup>	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
<b>Outdoor Fan—Type</b>	Propeller	Propeller	Propeller	Propeller
No. Used/Diameter in. [mm]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	3400 [1604]	3400 [1604]	3400 [1604]	3400 [1604]
No. Motors/HP	1 at 1/3 HP	1 at 1/3 HP	1 at 1/3 HP	1 at 1/3 HP
Motor RPM	875	875	875	875
<b>Indoor Fan—Type</b>	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/10x9 [254x228.6]	1/10x9 [254x228.6]	1/10x9 [254x228.6]	1/11x9 [279.4x228.6]
Drive Type/No. Speeds	Direct/2	Direct/2	Direct/2	Direct/2
No. Motors	1	1	1	1
Motor HP	1/4	1/3	1/2	1/2
Motor RPM (Nominal)	1033	1080	1050	1075
Motor Frame Size	48	48	48	48
<b>Filter—Type</b>	Field Supplied	Field Supplied	Field Supplied	Field Supplied
Furnished	No	No	No	No
(No.) Size Recommended in. [mm]	(1)1x20x16 [25x508x406]	(1)1x20x20 [25x508x508]	(1)1x24x24 [25x610x610]	(1)1x24x24 [25x610x610]
<b>Refrigerant Charge Oz. [g] (R-410A)</b>	70 [1984]	78 [2211]	78 [2211]	86 [2438]
<b>Weights</b>				
Net Weight lbs. [kg]	304 [138]	306 [139]	309 [140]	333 [151]
Ship Weight lbs. [kg]	328 [149]	330 [150]	333 [151]	357 [162]

[ ] Designates Metric Conversions

### NOTES:

- Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. ARI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on ARI Standard 210/240 or 360.
- EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures.
- Outdoor Sound Rating shown is tested in accordance with AIR standard 270.
- Standard 3/4" PVC P-Trap provided.



## NOMINAL SIZES 2-5 TONS [7-17.6 kW]

Model TZAH- Series	48-2L	60-2L
<b>Cooling Performance<sup>1</sup></b>		
Gross Cooling Capacity Btu [kW]	48,000 [14.06]	63,000 [18.46]
EER/SEER <sup>2</sup>	11.3/13	11.3/13
Nominal CFM/ARI Rated CFM [L/s]	1600/1550 [755/731]	2000/1900 [944/897]
ARI Net Cooling Capacity Btu [kW]	46,000 [13.48]	60,000 [17.58]
Net Sensible Capacity Btu [kW]	35,500 [10.4]	45,000 [13.18]
Net Latent Capacity Btu [kW]	10,500 [3.08]	15,000 [4.4]
Net System Power kW	4.07	5.31
<b>Compressor</b>		
No./Type	1/Scroll	1/Scroll
<b>Outdoor Sound Rating (dB)<sup>3</sup></b>		
	78	78
<b>Outdoor Coil—Fin Type</b>		
Tube Type	Louvered	Louvered
Tube Size in. [mm] OD	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	16.54 [1.54]	16.54 [1.54]
	1 / 22 [9]	2 / 22 [9]
<b>Indoor Coil—Fin Type</b>		
Tube Type	Louvered	Louvered
Tube Size in. [mm]	Rifled	Rifled
Face Area sq. ft. [sq. m]	0.375 [9.5]	0.375 [9.5]
Rows / FPI [FPcm]	5.78 [0.54]	5.78 [0.54]
	3 / 13 [5]	4 / 13 [5]
Refrigerant Control	TX Valves	TX Valves
Drain Connection No./Size in. [mm] <sup>4</sup>	1/1 [25.4]	1/1 [25.4]
<b>Outdoor Fan—Type</b>		
	Propeller	Propeller
No. Used/Diameter in. [mm]	1/24 [609.6]	1/24 [609.6]
Drive Type/No. Speeds	Direct/1	Direct/1
CFM [L/s]	4200 [1982]	4000 [1888]
No. Motors/HP	1 at 1/3 HP	1 at 1/3 HP
Motor RPM	1075	1075
<b>Indoor Fan—Type</b>		
	FC Centrifugal	FC Centrifugal
No. Used/Diameter in. [mm]	1/11x9 [279.4x228.6]	1/11x9 [279.4x228.6]
Drive Type/No. Speeds	Direct/2	Direct/2
No. Motors	1	1
Motor HP	3/4	3/4
Motor RPM (Nominal)	1075	1075
Motor Frame Size	48	48
<b>Filter—Type</b>		
	Field Supplied	Field Supplied
Furnished	No	No
(No.) Size Recommended in. [mm]	(1)1x24x24 [25x610x610]	(1)1x24x24 [25x610x610]
<b>Refrigerant Charge Oz. [g] (R-410A)</b>		
	114 [3232]	178 [5046]
<b>Weights</b>		
Net Weight lbs. [kg]	349 [158]	364 [165]
Ship Weight lbs. [kg]	375 [170]	390 [177]

[ ] Designates Metric Conversions

### NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. ARI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on ARI Standard 210/240 or 360.
2. EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures.
3. Outdoor Sound Rating shown is tested in accordance with AIR standard 270.
4. Standard 3/4" PVC P-Trap provided.

# SYSTEMS PERFORMANCE—TZAH- SERIES

## GROSS SYSTEMS PERFORMANCE DATA—24-2L

		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]	960 [453]	800 [378]	640 [302]	960 [453]	800 [378]	640 [302]	960 [453]	800 [378]	640 [302]
		DR ①	.12	.08	.03	.12	.08	.03	.12	.08	.03
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	30.5 [8.94]	29.4 [8.62]	28.4 [8.32]	28.5 [8.35]	27.5 [8.06]	26.5 [7.77]	26.9 [7.88]	26.0 [7.62]	25.0 [7.33]
		Sens BTUH [kW]	19.0 [5.57]	17.4 [5.10]	15.8 [4.63]	22.4 [6.56]	20.5 [6.01]	18.6 [5.45]	25.8 [7.56]	23.6 [6.92]	21.4 [6.27]
		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]	30.0 [8.79]	28.9 [8.47]	27.9 [8.18]	27.9 [8.18]	27.0 [7.91]	26.0 [7.62]	26.4 [7.74]	25.4 [7.44]	24.5 [7.18]
		Sens BTUH [kW]	18.8 [5.51]	17.2 [5.04]	15.6 [4.57]	22.2 [6.51]	20.3 [5.95]	18.4 [5.39]	25.6 [7.50]	23.4 [6.86]	21.2 [6.21]
		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]	29.3 [8.59]	28.3 [8.29]	27.2 [7.97]	27.3 [8.00]	26.3 [7.71]	25.4 [7.44]	25.7 [7.53]	24.8 [7.27]	23.9 [7.00]
		Sens BTUH [kW]	18.5 [5.42]	17.0 [4.98]	15.4 [4.51]	21.9 [6.42]	20.0 [5.86]	18.2 [5.33]	25.3 [7.41]	23.2 [6.80]	21.0 [6.15]
		Power	1.7	1.7	1.6	1.7	1.7	1.6	1.7	1.7	1.7
	90 [32.2]	Total BTUH [kW]	28.5 [8.35]	27.5 [8.06]	26.5 [7.77]	26.5 [7.77]	25.6 [7.50]	24.6 [7.21]	24.9 [7.30]	24.0 [7.03]	23.2 [6.80]
Sens BTUH [kW]		18.2 [5.33]	16.6 [4.86]	15.1 [4.43]	21.5 [6.30]	19.7 [5.77]	17.9 [5.25]	24.9 [7.30]	22.8 [6.68]	20.7 [6.07]	
Power		1.8	1.8	1.7	1.8	1.7	1.7	1.8	1.8	1.7	
95 [35]	Total BTUH [kW]	27.6 [8.09]	26.7 [7.83]	25.7 [7.53]	25.6 [7.50]	24.7 [7.24]	23.8 [6.98]	24.0 [7.03]	23.2 [6.80]	22.4 [6.56]	
	Sens BTUH [kW]	17.8 [5.22]	16.2 [4.75]	14.7 [4.31]	21.1 [6.18]	19.3 [5.66]	17.5 [5.13]	24.0 [7.03]	22.5 [6.59]	20.3 [5.95]	
	Power	1.9	1.8	1.8	1.9	1.8	1.8	1.9	1.8	1.8	
100 [37.8]	Total BTUH [kW]	26.7 [7.83]	25.8 [7.56]	24.8 [7.27]	24.7 [7.24]	23.8 [6.98]	23.0 [6.74]	23.1 [6.77]	22.3 [6.54]	21.5 [6.30]	
	Sens BTUH [kW]	17.3 [5.07]	15.8 [4.63]	14.4 [4.22]	20.7 [6.07]	18.9 [5.54]	17.1 [5.01]	23.1 [6.77]	22.0 [6.45]	20.0 [5.86]	
	Power	2.0	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	
105 [40.6]	Total BTUH [kW]	25.7 [7.53]	24.8 [7.27]	23.9 [7.00]	23.7 [6.95]	22.9 [6.71]	22.1 [6.48]	22.1 [6.48]	21.4 [6.27]	20.6 [6.04]	
	Sens BTUH [kW]	16.8 [4.92]	15.4 [4.51]	13.9 [4.07]	20.2 [5.92]	18.5 [5.42]	16.7 [4.89]	22.1 [6.48]	21.4 [6.27]	19.6 [5.74]	
	Power	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
110 [43.3]	Total BTUH [kW]	24.7 [7.24]	23.9 [7.00]	23.0 [6.74]	22.7 [6.65]	21.9 [6.42]	21.1 [6.18]	21.2 [6.21]	20.4 [5.98]	19.7 [5.77]	
	Sens BTUH [kW]	16.3 [4.78]	14.9 [4.37]	13.5 [3.96]	19.7 [5.77]	18.0 [5.28]	16.3 [4.78]	21.2 [6.21]	20.4 [5.98]	19.1 [5.60]	
	Power	2.1	2.1	2.1	2.1	2.1	2.0	2.1	2.1	2.1	
115 [46.1]	Total BTUH [kW]	23.8 [6.98]	22.9 [6.71]	22.1 [6.48]	21.7 [6.36]	21.0 [6.15]	20.2 [5.92]	20.2 [5.92]	19.5 [5.71]	18.7 [5.48]	
	Sens BTUH [kW]	15.8 [4.63]	14.5 [4.25]	13.1 [3.84]	19.2 [5.63]	17.5 [5.13]	15.9 [4.66]	20.2 [5.92]	19.5 [5.71]	18.7 [5.48]	
	Power	2.2	2.2	2.1	2.2	2.2	2.1	2.2	2.2	2.1	

## GROSS SYSTEMS PERFORMANCE DATA—30-2L

		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]	1200 [566]	1000 [472]	800 [378]	1200 [566]	1000 [472]	800 [378]	1200 [566]	1000 [472]	800 [378]
		DR ①	.15	.11	.07	.15	.11	.07	.15	.11	.07
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW]	37.8 [11.08]	36.5 [10.70]	35.1 [10.29]	34.9 [10.23]	33.7 [9.88]	32.5 [9.52]	33.4 [9.79]	32.2 [9.44]	31.1 [9.11]
		Sens BTUH [kW]	23.3 [6.83]	21.3 [6.24]	19.3 [5.66]	27.2 [7.97]	24.9 [7.30]	22.5 [6.59]	31.6 [9.26]	28.9 [8.47]	26.2 [7.68]
		Power	2.0	2.0	1.9	1.9	1.9	1.8	2.0	2.0	1.9
	80 [26.7]	Total BTUH [kW]	37.0 [10.84]	35.7 [10.46]	34.4 [10.08]	34.2 [10.02]	33.0 [9.67]	31.8 [9.32]	32.6 [9.55]	31.5 [9.23]	30.3 [8.88]
		Sens BTUH [kW]	23.1 [6.77]	21.2 [6.21]	19.2 [5.63]	27.0 [7.91]	24.7 [7.24]	22.4 [6.56]	31.6 [9.26]	28.8 [8.44]	26.1 [7.65]
		Power	2.1	2.0	2.0	2.0	1.9	1.9	2.1	2.0	2.0
	85 [29.4]	Total BTUH [kW]	36.1 [10.58]	34.8 [10.20]	33.5 [9.82]	33.2 [9.73]	32.0 [9.38]	30.9 [9.06]	31.7 [9.29]	30.6 [8.97]	29.4 [8.62]
		Sens BTUH [kW]	22.7 [6.65]	20.8 [6.10]	18.9 [5.54]	26.6 [7.80]	24.4 [7.15]	22.1 [6.48]	31.1 [9.11]	28.4 [8.32]	25.8 [7.56]
		Power	2.2	2.1	2.1	2.1	2.0	2.0	2.2	2.1	2.1
	90 [32.2]	Total BTUH [kW]	35.0 [10.26]	33.8 [9.91]	32.5 [9.52]	32.1 [9.41]	31.0 [9.09]	29.9 [8.76]	30.6 [8.97]	29.5 [8.65]	28.4 [8.32]
Sens BTUH [kW]		22.2 [6.51]	20.3 [5.95]	18.4 [5.39]	26.1 [7.65]	23.9 [7.00]	21.6 [6.33]	30.4 [8.91]	27.9 [8.18]	25.3 [7.41]	
Power		2.2	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.2	
95 [35]	Total BTUH [kW]	33.9 [9.94]	32.7 [9.58]	31.5 [9.23]	31.0 [9.09]	29.9 [8.76]	28.8 [8.44]	29.5 [8.65]	28.4 [8.32]	27.4 [8.03]	
	Sens BTUH [kW]	21.6 [6.33]	19.8 [5.80]	17.9 [5.25]	25.5 [7.47]	23.3 [6.83]	21.1 [6.18]	29.5 [8.65]	27.4 [8.03]	24.8 [7.27]	
	Power	2.3	2.3	2.2	2.2	2.2	2.1	2.3	2.3	2.2	
100 [37.8]	Total BTUH [kW]	32.7 [9.58]	31.6 [9.26]	30.4 [8.91]	29.9 [8.76]	28.8 [8.44]	27.8 [8.15]	28.3 [8.29]	27.3 [8.00]	26.3 [7.71]	
	Sens BTUH [kW]	21.0 [6.15]	19.2 [5.63]	17.4 [5.10]	24.9 [7.30]	22.8 [6.68]	20.6 [6.04]	28.3 [8.29]	26.8 [7.85]	24.3 [7.12]	
	Power	2.4	2.4	2.3	2.3	2.3	2.2	2.4	2.4	2.3	
105 [40.6]	Total BTUH [kW]	31.7 [9.29]	30.5 [8.94]	29.4 [8.62]	28.8 [8.44]	27.8 [8.15]	26.8 [7.85]	27.3 [8.00]	26.3 [7.71]	25.4 [7.44]	
	Sens BTUH [kW]	20.5 [6.01]	18.7 [5.48]	17.0 [4.98]	24.4 [7.15]	22.3 [6.54]	20.2 [5.92]	27.3 [8.00]	26.3 [7.71]	23.9 [7.00]	
	Power	2.5	2.4	2.4	2.4	2.3	2.3	2.5	2.4	2.4	
110 [43.3]	Total BTUH [kW]	30.7 [9.00]	29.6 [8.67]	28.5 [8.35]	27.8 [8.15]	26.9 [7.88]	25.9 [7.59]	26.3 [7.71]	25.4 [7.44]	24.5 [7.18]	
	Sens BTUH [kW]	20.1 [5.89]	18.4 [5.39]	16.7 [4.89]	24.0 [7.03]	22.0 [6.45]	19.9 [5.83]	26.3 [7.71]	25.4 [7.44]	23.6 [6.92]	
	Power	2.6	2.5	2.5	2.5	2.4	2.4	2.6	2.5	2.5	
115 [46.1]	Total BTUH [kW]	29.9 [8.76]	28.9 [8.47]	27.8 [8.15]	27.1 [7.94]	26.1 [7.65]	25.2 [7.39]	25.5 [7.47]	24.6 [7.21]	23.7 [6.95]	
	Sens BTUH [kW]	20.0 [5.86]	18.3 [5.36]	16.6 [4.86]	23.9 [7.00]	21.9 [6.42]	19.8 [5.80]	25.5 [7.47]	24.6 [7.21]	23.5 [6.89]	
	Power	2.6	2.6	2.6	2.5	2.5	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  $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$ .

[ ] Designates Metric Conversions

# SYSTEMS PERFORMANCE—TZAH- SERIES

## GROSS SYSTEMS PERFORMANCE DATA—36-2L

		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]		1440 [680]	1200 [566]	960 [453]	1440 [680]	1200 [566]	960 [453]	1440 [680]	1200 [566]	960 [453]	
DR ①		.14	.10	.06	.14	.10	.06	.14	.10	.06	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	45.6 [13.36] 28.7 [8.41] 2.4	44.0 [12.90] 26.2 [7.68] 2.3	42.4 [12.43] 23.8 [6.98] 2.3	42.9 [12.57] 33.8 [9.91] 2.3	41.4 [12.13] 30.9 [9.06] 2.3	39.9 [11.69] 28.1 [8.24] 2.2	40.2 [11.78] 38.5 [11.28] 2.3	38.8 [11.37] 35.3 [10.35] 2.3	37.4 [10.96] 32.0 [9.38] 2.3
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	44.8 [13.13] 28.0 [8.21] 2.5	43.2 [12.66] 25.6 [7.50] 2.5	41.6 [12.19] 23.2 [6.80] 2.4	42.1 [12.34] 33.2 [9.73] 2.4	40.6 [11.90] 30.4 [8.91] 2.4	39.2 [11.49] 27.5 [8.06] 2.4	39.4 [11.55] 38.1 [11.17] 2.5	38.0 [11.14] 34.7 [10.17] 2.4	36.6 [10.73] 31.5 [9.23] 2.4
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	43.7 [12.81] 27.4 [8.03] 2.6	42.2 [12.37] 25.0 [7.33] 2.6	40.6 [11.90] 22.7 [6.65] 2.5	41.1 [12.05] 32.6 [9.55] 2.6	39.6 [11.61] 29.8 [8.73] 2.5	38.2 [11.20] 27.0 [7.91] 2.5	38.3 [11.22] 37.5 [10.99] 2.6	37.0 [10.84] 34.1 [9.99] 2.5	35.6 [10.43] 30.9 [9.06] 2.5
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	42.5 [12.46] 26.8 [7.85] 2.7	41.0 [12.02] 24.5 [7.18] 2.7	39.5 [11.58] 22.2 [6.51] 2.7	39.8 [11.66] 31.9 [9.35] 2.7	38.4 [11.25] 29.2 [8.56] 2.6	37.0 [10.84] 26.5 [7.77] 2.6	37.1 [10.87] 36.6 [10.73] 2.7	35.8 [10.49] 33.5 [9.82] 2.7	34.5 [10.11] 30.4 [8.91] 2.6
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	41.2 [12.07] 26.2 [7.68] 2.9	39.7 [11.63] 23.9 [7.00] 2.8	38.3 [11.22] 21.7 [6.36] 2.8	38.5 [11.28] 31.3 [9.17] 2.8	37.2 [10.90] 28.7 [8.41] 2.8	35.8 [10.49] 26.0 [7.62] 2.7	35.8 [10.49] 35.8 [10.49] 2.8	34.5 [10.11] 33.1 [9.70] 2.8	33.3 [9.76] 29.9 [8.76] 2.7
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	39.8 [11.66] 25.6 [7.50] 3.0	38.4 [11.25] 23.4 [6.86] 2.9	37.0 [10.84] 21.2 [6.21] 2.9	37.1 [10.87] 30.8 [9.03] 2.9	35.8 [10.49] 28.1 [8.24] 2.9	34.5 [10.11] 25.5 [7.47] 2.8	34.4 [10.08] 34.4 [10.08] 3.0	33.2 [9.73] 32.5 [9.52] 2.9	32.0 [9.38] 29.5 [8.65] 2.9
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	38.4 [11.25] 25.0 [7.33] 3.1	37.1 [10.87] 22.9 [6.71] 3.1	35.7 [10.46] 20.8 [6.10] 3.0	35.8 [10.49] 30.2 [8.85] 3.1	34.5 [10.11] 27.6 [8.09] 3.0	33.3 [9.76] 25.0 [7.33] 3.0	33.0 [9.67] 33.0 [9.67] 3.1	31.9 [9.35] 31.9 [9.35] 3.0	30.7 [9.00] 29.0 [8.50] 3.0
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	37.1 [10.87] 24.5 [7.18] 3.2	35.8 [10.49] 22.4 [6.56] 3.2	34.5 [10.11] 20.3 [5.95] 3.1	34.5 [10.11] 29.7 [8.70] 3.2	33.3 [9.76] 27.1 [7.94] 3.1	32.1 [9.41] 24.6 [7.21] 3.1	31.7 [9.29] 31.7 [9.29] 3.2	30.6 [8.97] 30.6 [8.97] 3.1	29.5 [8.65] 28.5 [8.35] 3.1
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	36.0 [10.55] 24.0 [7.03] 3.4	34.7 [10.17] 21.9 [6.42] 3.3	33.5 [9.82] 19.9 [5.83] 3.2	33.3 [9.76] 29.1 [8.53] 3.3	32.2 [9.44] 26.7 [7.83] 3.2	31.0 [9.09] 24.2 [7.09] 3.2	30.6 [8.97] 30.6 [8.97] 3.3	29.5 [8.65] 29.5 [8.65] 3.3	28.4 [8.32] 28.1 [8.24] 3.2

## GROSS SYSTEMS PERFORMANCE DATA—42-2L

		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]		1680 [793]	1400 [661]	1120 [529]	1680 [793]	1400 [661]	1120 [529]	1680 [793]	1400 [661]	1120 [529]	
DR ①		.15	.11	.07	.15	.11	.07	.15	.11	.07	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	52.7 [15.44] 32.8 [9.61] 2.7	50.9 [14.92] 30.0 [8.79] 2.7	49.0 [14.36] 27.2 [7.97] 2.6	50.0 [14.65] 39.1 [11.46] 2.7	48.2 [14.13] 35.7 [10.46] 2.6	46.5 [13.63] 32.4 [9.50] 2.6	46.4 [13.60] 44.0 [12.90] 2.7	44.8 [13.13] 40.4 [11.84] 2.6	43.2 [12.66] 36.6 [10.73] 2.6
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	51.8 [15.18] 32.0 [9.38] 2.9	50.0 [14.65] 29.3 [8.59] 2.8	48.2 [14.13] 26.5 [7.77] 2.8	49.0 [14.36] 38.3 [11.22] 2.8	47.3 [13.86] 35.0 [10.26] 2.8	45.6 [13.36] 31.7 [9.29] 2.7	45.5 [13.33] 43.6 [12.78] 2.9	43.9 [12.87] 39.7 [11.63] 2.8	42.3 [12.40] 36.0 [10.55] 2.8
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	50.5 [14.80] 31.3 [9.17] 3.0	48.8 [14.30] 28.6 [8.38] 3.0	47.0 [13.77] 25.9 [7.59] 2.9	47.8 [14.01] 37.6 [11.02] 3.0	46.1 [13.51] 34.4 [10.08] 2.9	44.4 [13.01] 31.1 [9.11] 2.9	44.2 [12.95] 42.9 [12.57] 3.0	42.7 [12.51] 39.0 [11.43] 3.0	41.1 [12.05] 35.4 [10.37] 2.9
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	49.1 [14.39] 30.6 [8.97] 3.2	47.3 [13.86] 28.0 [8.21] 3.2	45.6 [13.36] 25.4 [7.44] 3.1	46.3 [13.57] 36.9 [10.81] 3.2	44.7 [13.10] 33.7 [9.88] 3.1	43.0 [12.60] 30.6 [8.97] 3.0	42.8 [12.54] 41.9 [12.28] 3.2	41.3 [12.10] 38.4 [11.25] 3.1	39.8 [11.66] 34.8 [10.20] 3.1
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	47.5 [13.92] 30.0 [8.79] 3.4	45.8 [13.42] 27.4 [8.03] 3.3	44.1 [12.92] 24.8 [7.27] 3.3	44.7 [13.10] 36.2 [10.61] 3.3	43.1 [12.63] 33.1 [9.70] 3.3	41.6 [12.19] 30.0 [8.79] 3.2	41.2 [12.07] 41.2 [12.07] 3.3	39.7 [11.63] 37.8 [11.08] 3.3	38.3 [11.22] 34.3 [10.05] 3.2
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	45.9 [13.45] 29.3 [8.59] 3.5	44.3 [12.98] 26.8 [7.85] 3.5	42.7 [12.51] 24.3 [7.12] 3.4	43.1 [12.63] 35.6 [10.43] 3.5	41.6 [12.19] 32.6 [9.55] 3.4	40.1 [11.75] 29.5 [8.65] 3.4	39.6 [11.61] 39.6 [11.61] 3.5	38.2 [11.20] 37.2 [10.90] 3.4	36.8 [10.79] 33.8 [9.91] 3.4
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	44.4 [13.01] 28.7 [8.41] 3.7	42.9 [12.57] 26.3 [7.71] 3.6	41.3 [12.10] 23.8 [6.98] 3.6	41.7 [12.22] 35.0 [10.26] 3.6	40.2 [11.78] 32.0 [9.38] 3.6	38.8 [11.37] 29.0 [8.50] 3.5	38.2 [11.20] 38.2 [11.20] 3.7	36.8 [10.79] 36.7 [10.76] 3.6	35.5 [10.40] 33.3 [9.76] 3.5
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	43.3 [12.69] 28.1 [8.24] 3.9	41.7 [12.22] 25.7 [7.53] 3.8	40.2 [11.78] 23.3 [6.83] 3.7	40.5 [11.87] 34.4 [10.08] 3.8	39.1 [11.46] 31.5 [9.23] 3.7	37.7 [11.05] 28.5 [8.35] 3.7	37.0 [10.84] 37.0 [10.84] 3.8	35.7 [10.46] 35.7 [10.46] 3.8	34.4 [10.08] 32.8 [9.61] 3.7
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	42.4 [12.43] 27.5 [8.06] 4.0	40.9 [11.99] 25.2 [7.39] 3.9	39.4 [11.55] 22.8 [6.68] 3.9	39.7 [11.63] 33.8 [9.91] 4.0	38.3 [11.22] 30.9 [9.06] 3.9	36.9 [10.81] 28.0 [8.21] 3.8	36.1 [10.58] 36.1 [10.58] 4.0	34.9 [10.23] 34.9 [10.23] 3.9	33.6 [9.85] 32.3 [9.47] 3.9

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

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

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

[ ] Designates Metric Conversions

# SYSTEMS PERFORMANCE—TZAH- SERIES

## GROSS SYSTEMS PERFORMANCE DATA—48-2L

		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]		1860 [878]	1550 [732]	1240 [585]	1860 [878]	1550 [732]	1240 [585]	1860 [878]	1550 [732]	1240 [585]	
DR ①		.12	.08	.03	.12	.08	.03	.12	.08	.03	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	60.4 [17.70] 36.5 [10.70] 2.9	58.3 [17.09] 33.4 [9.79] 2.9	56.2 [16.47] 30.3 [8.88] 2.8	56.4 [16.53] 44.0 [12.90] 2.9	54.4 [15.94] 40.2 [11.78] 2.9	52.4 [15.36] 36.5 [10.70] 2.8	53.2 [15.59] 50.0 [14.65] 2.9	51.3 [15.03] 45.8 [13.42] 2.9	49.5 [14.51] 41.6 [12.19] 2.8
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	58.5 [17.14] 35.6 [10.43] 3.1	56.4 [16.53] 32.6 [9.55] 3.0	54.4 [15.94] 29.5 [8.65] 3.0	54.4 [15.94] 43.0 [12.60] 3.1	52.5 [15.39] 39.4 [11.55] 3.0	50.6 [14.83] 35.7 [10.46] 3.0	51.2 [15.01] 49.3 [14.45] 3.1	49.4 [14.48] 45.0 [13.19] 3.0	47.6 [13.95] 40.8 [11.96] 3.0
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	56.8 [16.65] 34.8 [10.20] 3.2	54.8 [16.06] 31.9 [9.35] 3.2	52.8 [15.47] 28.9 [8.47] 3.1	52.7 [15.44] 42.2 [12.37] 3.2	50.9 [14.92] 38.6 [11.31] 3.2	49.0 [14.36] 35.0 [10.26] 3.1	49.5 [14.51] 48.5 [14.21] 3.2	47.8 [14.01] 44.3 [12.98] 3.2	46.0 [13.48] 40.1 [11.75] 3.1
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	55.2 [16.18] 34.1 [9.99] 3.4	53.3 [15.62] 31.2 [9.14] 3.3	51.3 [15.03] 28.3 [8.29] 3.3	51.2 [15.01] 41.6 [12.19] 3.4	49.4 [14.48] 38.0 [11.14] 3.3	47.6 [13.95] 34.5 [10.11] 3.3	48.0 [14.07] 47.5 [13.92] 3.4	46.3 [13.57] 43.6 [12.78] 3.3	44.6 [13.07] 39.6 [11.61] 3.3
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	53.7 [15.74] 33.5 [9.82] 3.6	51.8 [15.18] 30.7 [9.00] 3.5	50.0 [14.65] 27.8 [8.15] 3.4	49.7 [14.57] 40.9 [11.99] 3.6	47.9 [14.04] 37.4 [10.96] 3.5	46.2 [13.54] 34.0 [9.96] 3.4	46.5 [13.63] 46.5 [13.63] 3.6	44.9 [13.16] 43.1 [12.63] 3.5	43.2 [12.66] 39.0 [11.43] 3.4
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	52.3 [15.33] 32.9 [9.64] 3.7	50.4 [14.77] 30.1 [8.82] 3.7	48.6 [14.24] 27.3 [8.00] 3.6	48.2 [14.13] 40.3 [11.81] 3.7	46.6 [13.66] 36.9 [10.81] 3.7	44.9 [13.16] 33.4 [9.79] 3.6	45.0 [13.19] 45.0 [13.19] 3.7	43.5 [12.75] 42.5 [12.46] 3.7	41.9 [12.28] 38.5 [11.28] 3.6
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	50.8 [14.89] 32.2 [9.44] 3.9	49.0 [14.36] 29.5 [8.65] 3.8	47.2 [13.83] 26.7 [7.83] 3.8	46.8 [13.72] 39.6 [11.61] 3.9	45.1 [13.22] 36.2 [10.61] 3.8	43.5 [12.75] 32.9 [9.64] 3.7	43.6 [12.78] 43.6 [12.78] 3.9	42.0 [12.31] 41.9 [12.28] 3.8	40.5 [11.87] 38.0 [11.14] 3.7
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	49.2 [14.42] 31.4 [9.20] 4.0	47.5 [13.92] 28.7 [8.41] 4.0	45.8 [13.42] 26.1 [7.65] 3.9	45.2 [13.25] 38.8 [11.37] 4.0	43.6 [12.78] 35.5 [10.40] 4.0	42.0 [12.31] 32.2 [9.44] 3.9	42.0 [12.31] 42.0 [12.31] 4.0	40.5 [11.87] 40.5 [11.87] 4.0	39.1 [11.46] 37.3 [10.93] 3.9
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	47.5 [13.92] 30.5 [8.94] 4.2	45.8 [13.42] 27.9 [8.18] 4.1	44.2 [12.95] 25.3 [7.41] 4.1	43.5 [12.75] 37.9 [11.11] 4.2	41.9 [12.28] 34.7 [10.17] 4.1	40.4 [11.84] 31.4 [9.20] 4.1	40.3 [11.81] 40.3 [11.81] 4.2	38.9 [11.40] 38.9 [11.40] 4.1	37.4 [10.96] 36.5 [10.70] 4.1

## GROSS SYSTEMS PERFORMANCE DATA—60-2L

		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]		2280 [1076]	1900 [897]	1520 [717]	2280 [1076]	1900 [897]	1520 [717]	2280 [1076]	1900 [897]	1520 [717]	
DR ①		.10	.07	.03	.10	.07	.03	.10	.07	.03	
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75 [23.9]	Total BTUH [kW] Sens BTUH [kW] Power	77.1 [22.60] 48.5 [14.21] 3.7	74.4 [21.80] 44.4 [13.01] 3.7	71.7 [21.01] 40.2 [11.78] 3.6	73.9 [21.66] 57.1 [16.73] 3.7	71.3 [20.90] 52.2 [15.30] 3.6	68.7 [20.13] 47.4 [13.89] 3.5	71.2 [20.87] 64.9 [19.02] 3.7	68.7 [20.13] 59.4 [17.41] 3.6	66.2 [19.40] 53.8 [15.77] 3.5
	80 [26.7]	Total BTUH [kW] Sens BTUH [kW] Power	74.6 [21.86] 46.7 [13.69] 3.9	72.0 [21.10] 42.7 [12.51] 3.9	69.4 [20.34] 38.7 [11.34] 3.8	71.4 [20.93] 55.2 [16.18] 3.9	68.9 [20.19] 50.5 [14.80] 3.8	66.4 [19.46] 45.8 [13.42] 3.7	68.7 [20.13] 63.0 [18.46] 3.9	66.3 [19.43] 57.6 [16.88] 3.8	63.9 [18.73] 52.3 [15.33] 3.7
	85 [29.4]	Total BTUH [kW] Sens BTUH [kW] Power	72.4 [21.22] 45.4 [13.31] 4.2	69.8 [20.46] 41.5 [12.16] 4.1	67.3 [19.72] 37.6 [11.02] 4.0	69.2 [20.28] 54.0 [15.83] 4.1	66.7 [19.55] 49.3 [14.45] 4.0	64.3 [18.84] 44.7 [13.10] 4.0	66.5 [19.49] 61.7 [18.08] 4.1	64.2 [18.82] 56.5 [16.56] 4.0	61.8 [18.11] 51.2 [15.01] 4.0
	90 [32.2]	Total BTUH [kW] Sens BTUH [kW] Power	70.3 [20.60] 44.5 [13.04] 4.4	67.9 [19.90] 40.7 [11.93] 4.3	65.4 [19.17] 36.9 [10.81] 4.2	67.1 [19.67] 53.1 [15.56] 4.3	64.8 [18.99] 48.5 [14.21] 4.2	62.4 [18.29] 44.0 [12.90] 4.2	64.5 [18.90] 60.8 [17.82] 4.3	62.2 [18.23] 55.6 [16.29] 4.2	59.9 [17.55] 50.5 [14.80] 4.2
	95 [35]	Total BTUH [kW] Sens BTUH [kW] Power	68.4 [20.05] 43.8 [12.84] 4.6	66.0 [19.34] 40.1 [11.75] 4.5	63.6 [18.64] 36.3 [10.64] 4.4	65.2 [19.11] 52.4 [15.36] 4.5	62.9 [18.43] 47.9 [14.04] 4.5	60.6 [17.76] 43.4 [12.72] 4.4	62.5 [18.32] 60.2 [17.64] 4.5	60.3 [17.67] 55.0 [16.12] 4.5	58.1 [17.03] 49.9 [14.62] 4.4
	100 [37.8]	Total BTUH [kW] Sens BTUH [kW] Power	66.5 [19.49] 43.1 [12.63] 4.8	64.2 [18.82] 39.4 [11.55] 4.7	61.8 [18.11] 35.8 [10.49] 4.7	63.3 [18.55] 51.7 [15.15] 4.8	61.1 [17.91] 47.3 [13.86] 4.7	58.8 [17.23] 42.9 [12.57] 4.6	60.6 [17.76] 59.5 [17.44] 4.7	58.5 [17.14] 54.4 [15.94] 4.7	56.4 [16.53] 49.3 [14.45] 4.6
	105 [40.6]	Total BTUH [kW] Sens BTUH [kW] Power	64.5 [18.90] 42.3 [12.40] 5.0	62.3 [18.26] 38.7 [11.34] 5.0	60.0 [17.58] 35.1 [10.29] 4.9	61.3 [17.97] 50.9 [14.92] 5.0	59.2 [17.35] 46.6 [13.66] 4.9	57.0 [16.71] 42.2 [12.37] 4.8	58.6 [17.17] 58.6 [17.17] 5.0	56.6 [16.59] 53.7 [15.74] 4.9	54.5 [15.97] 48.7 [14.27] 4.8
	110 [43.3]	Total BTUH [kW] Sens BTUH [kW] Power	62.4 [18.29] 41.2 [12.07] 5.3	60.2 [17.64] 37.7 [11.05] 5.2	58.0 [17.00] 34.1 [9.99] 5.1	59.2 [17.35] 49.8 [14.59] 5.2	57.1 [16.73] 45.5 [13.33] 5.1	55.1 [16.15] 41.3 [12.10] 5.0	56.5 [16.56] 56.5 [16.56] 5.2	54.6 [16.00] 52.6 [15.42] 5.1	52.6 [15.42] 47.7 [13.98] 5.0
	115 [46.1]	Total BTUH [kW] Sens BTUH [kW] Power	60.1 [17.61] 39.5 [11.58] 5.5	58.0 [17.00] 36.1 [10.58] 5.4	55.9 [16.38] 32.8 [9.61] 5.3	56.9 [16.68] 48.1 [14.10] 5.4	54.9 [16.09] 44.0 [12.90] 5.3	52.9 [15.50] 39.9 [11.69] 5.2	54.2 [15.88] 54.2 [15.88] 5.4	52.3 [15.33] 51.1 [14.98] 5.3	50.4 [14.77] 46.3 [13.57] 5.2

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

[ ] 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	CFM [L/s] Air Delivery/RPM/Watts—230 Volts Side Discharge—Wet Coil										
					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]	0.9 [0.22]	1.0 [0.25]	
2.0 [7.03]	Low	700/900	10x9 1/4 HP [186] 2 Speed Motor (PSC Motor)	Low	CFM	827 [390]	811 [383]	782 [369]	740 [349]	684 [323]	614 [290]	531 [251]	435 [205]	—	—
					RPM	450	533	626	742	799	894	932	985	—	—
					Watts	278	273	289	254	244	227	216	198	—	—
2.5 [8.79]	Low	875/1125	10x9 1/3 HP [249] 2 Speed Motor (PSC Motor)	High	CFM	1230 [580]	1223 [577]	1216 [574]	1211 [572]	1187 [560]	1125 [551]	1020 [481]	874 [412]	696 [328]	504 [238]
					RPM	575	643	703	767	819	877	976	1001	1072	1092
					Watts	479	468	455	448	431	416	357	341	279	259
3.0 [10.55]	Low	1050/1350	10x9 1/2 HP [373] 2 Speed Motor (PSC Motor)	Low	CFM	1032 [487]	1030 [486]	1014 [479]	979 [462]	923 [436]	843 [398]	735 [347]	596 [281]	423 [200]	—
					RPM	533	570	659	746	795	863	934	1019	1050	—
					Watts	336	331	326	314	303	280	271	227	210	—
3.5 [12.31]	Low	1225/1575	11x9 1/2 HP [373] 2 Speed Motor (PSC Motor)	High	CFM	1312 [619]	1301 [614]	1292 [610]	1276 [602]	1246 [588]	1196 [564]	1117 [527]	1003 [473]	845 [399]	—
					RPM	592	646	712	768	824	883	933	1012	1035	—
					Watts	482	473	466	454	433	421	401	349	329	—
4.0 [14.07]	Low	1400/1800	11x9 3/4 HP [559] 2 Speed Motor (PSC Motor)	Low	CFM	1261 [595]	1253 [591]	1225 [578]	1177 [555]	1110 [524]	1023 [483]	915 [432]	788 [372]	641 [303]	—
					RPM	648	705	754	802	854	896	985	1008	1041	—
					Watts	398	395	387	391	370	361	323	310	300	—
5.0 [17.6]	Low	1750/2250	11x9 3/4 HP [559] 2 Speed Motor (PSC Motor)	High	CFM	2068 [976]	2008 [948]	1957 [924]	1905 [899]	1841 [869]	1753 [827]	1629 [769]	1458 [688]	1228 [580]	929 [438]
					RPM	850	883	917	946	972	999	1028	1049	1091	1108
					Watts	826	806	784	762	734	702	658	626	546	512
5.0 [17.6]	Low	1750/2250	11x9 3/4 HP [559] 2 Speed Motor (PSC Motor)	High	CFM	1431 [675]	1394 [658]	1348 [636]	1302 [614]	1258 [594]	1208 [570]	1140 [538]	1030 [486]	849 [401]	557 [263]
					RPM	540	579	633	686	724	776	831	868	1035	1076
					Watts	482	479	477	470	459	453	437	423	335	292
5.0 [17.6]	Low	1750/2250	11x9 3/4 HP [559] 2 Speed Motor (PSC Motor)	High	CFM	1960 [925]	1936 [914]	1903 [898]	1859 [877]	1806 [852]	1742 [822]	1669 [788]	1585 [748]	1491 [704]	1387 [655]
					RPM	703	727	750	780	809	846	877	910	940	975
					Watts	783	782	776	759	750	729	712	686	656	625
5.0 [17.6]	Low	1750/2250	11x9 3/4 HP [559] 2 Speed Motor (PSC Motor)	High	CFM	1674 [790]	1638 [773]	1595 [753]	1547 [730]	1492 [704]	1432 [676]	1365 [644]	1283 [610]	1214 [573]	1129.05 [533]
					RPM	576	618	668	708	753	789	832	874	915	954
					Watts	575	563	556	549	544	532	522	503	483	465
5.0 [17.6]	Low	1750/2250	11x9 3/4 HP [559] 2 Speed Motor (PSC Motor)	High	CFM	1996 [942]	1976 [933]	1947 [919]	1909 [901]	1863 [879]	1808 [853]	1744 [823]	1671 [789]	1590 [750]	1500 [708]
					RPM	680	722	752	781	807	833	867	912	936	973
					Watts	799	787	784	760	753	749	730	699	683	652
5.0 [17.6]	Low	1750/2250	11x9 3/4 HP [559] 2 Speed Motor (PSC Motor)	High	CFM	2044 [965]	2017 [952]	1983 [936]	1941 [916]	1892 [899]	1836 [866]	1773 [837]	1702 [803]	1623 [766]	1537 [725]
					RPM	689	723	756	798	822	855	889	924	951	988
					Watts	886	870	865	849	831	817	799	782	755	726
5.0 [17.6]	Low	1750/2250	11x9 3/4 HP [559] 2 Speed Motor (PSC Motor)	High	CFM	2693 [1271]	2654 [1253]	2606 [1230]	2549 [1203]	2483 [1172]	2408 [1136]	2323 [1096]	2230 [1052]	2127 [1004]	2015 [951]
					RPM	876	897	915	938	956	975	996	1009	1025	1044
					Watts	1438	1427	1399	1368	1340	1312	1274	1228	1192	1146

[ ] Designates Metric Conversions

# AIRFLOW PERFORMANCE—TZAH- 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	CFM [L/s] Air Delivery/RPM/Watts—208 Volts Side Discharge—Wet Coil										
					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]	0.9 [0.22]	1.0 [0.25]	
2.0 [7.03]	Low	700/900	10x9 1/4 HP [186] 2 Speed Motor (PSC Motor)	Low	CFM	723 [341]	692 [327]	654 [309]	609 [287]	556 [262]	496 [234]	428 [202]	—	—	—
					RPM	443	528	651	710	819	863	914	—	—	—
					Watts	230	222	219	214	202	196	184	—	—	—
2.5 [8.79]	Low	875/1125	10x9 1/3 HP [249] 2 Speed Motor (PSC Motor)	High	CFM	1062 [501]	1062 [501]	1058 [499]	1043 [492]	1013 [478]	982 [454]	884 [417]	774 [365]	627 [296]	437 [206]
					RPM	528	618	674	735	812	895	936	985	1055	1080
					Watts	396	393	384	376	361	335	318	297	244	223
3.0 [10.55]	Low	1050/1350	10x9 1/2 HP [373] 2 Speed Motor (PSC Motor)	Low	CFM	923 [436]	904 [427]	874 [412]	832 [393]	774 [365]	698 [329]	602 [284]	483 [228]	—	—
					RPM	498	543	648	728	806	853	947	989	—	—
					Watts	280	278	268	259	252	243	219	201	—	—
3.5 [12.31]	Low	1225/1575	11x9 1/2 HP [373] 2 Speed Motor (PSC Motor)	High	CFM	1164 [549]	1154 [545]	1143 [539]	1124 [530]	1090 [514]	1034 [488]	948 [447]	826 [390]	660 [311]	445 [210]
					RPM	526	596	670	744	803	864	945	971	1051	1078
					Watts	401	398	388	379	371	350	322	310	259	235
4.0 [14.07]	Low	1400/1800	11x9 3/4 HP [559] 2 Speed Motor (PSC Motor)	Low	CFM	1145 [540]	1142 [539]	1118 [528]	1073 [506]	1006 [475]	918 [433]	—	—	—	—
					RPM	556	645	703	769	828	909	—	—	—	—
					Watts	346	340	335	326	321	298	—	—	—	—
5.0 [17.6]	Low	1750/2250	11x9 3/4 HP [559] 2 Speed Motor (PSC Motor)	High	CFM	1884 [889]	1850 [873]	1815 [857]	1772 [836]	1712 [808]	1630 [769]	1516 [715]	1363 [643]	1164 [549]	910 [429]
					RPM	791	834	871	912	946	975	1004	1032	1083	1097
					Watts	704	694	675	655	638	606	581	548	464	440
5.0 [17.6]	Low	1750/2250	11x9 3/4 HP [559] 2 Speed Motor (PSC Motor)	High	CFM	1279 [604]	1237 [584]	1196 [564]	1151 [543]	1098 [518]	1032 [487]	950 [448]	846 [399]	717 [338]	558 [263]
					RPM	490	539	598	653	709	772	811	887	928	976
					Watts	401	400	393	391	381	373	364	343	329	305
5.0 [17.6]	Low	1750/2250	11x9 3/4 HP [559] 2 Speed Motor (PSC Motor)	High	CFM	1751 [826]	1729 [816]	1698 [801]	1658 [782]	1608 [759]	1549 [731]	1481 [699]	1404 [663]	1317 [622]	1221 [576]
					RPM	640	668	706	734	781	813	851	888	937	968
					Watts	660	658	651	644	628	617	603	581	557	524
5.0 [17.6]	Low	1750/2250	11x9 3/4 HP [559] 2 Speed Motor (PSC Motor)	High	CFM	1400 [661]	1393 [657]	1373 [648]	1337 [631]	1288 [608]	1225 [578]	1147 [541]	1055 [498]	949 [448]	828 [391]
					RPM	536	578	623	677	718	782	830	863	902	976
					Watts	471	466	458	455	442	429	429	420	403	374
5.0 [17.6]	Low	1750/2250	11x9 3/4 HP [559] 2 Speed Motor (PSC Motor)	High	CFM	1786 [843]	1764 [833]	1734 [818]	1695 [800]	1649 [778]	1595 [753]	1532 [723]	1462 [690]	1384 [653]	1297 [612]
					RPM	618	643	684	726	757	805	841	883	924	955
					Watts	665	660	651	646	638	626	612	596	573	555
5.0 [17.6]	Low	1750/2250	11x9 3/4 HP [559] 2 Speed Motor (PSC Motor)	High	CFM	1848 [872]	1821 [859]	1795 [842]	1742 [822]	1690 [798]	1630 [769]	1562 [737]	1486 [701]	1402 [662]	1309 [618]
					RPM	660	685	722	755	795	836	867	904	940	975
					Watts	731	725	720	707	698	680	665	651	623	596
5.0 [17.6]	Low	1750/2250	11x9 3/4 HP [559] 2 Speed Motor (PSC Motor)	High	CFM	2444 [1153]	2420 [1142]	2384 [1125]	2337 [1103]	2278 [1075]	2208 [1042]	2127 [1004]	2034 [960]	1930 [911]	1814 [856]
					RPM	829	838	863	885	914	936	958	983	1003	1029
					Watts	1225	1218	1197	1191	1160	1135	1105	1068	1035	980

[ ] 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	CFM [L/s] Air Delivery/RPM/Watts—230 Volts Side Discharge—Wet Coil												
					External Static Pressure—Inches W.C. [kPa]												
					0.1 [1.02]	0.2 [0.05]	0.3 [1.07]	0.4 [1.10]	0.5 [1.12]	0.6 [1.15]	0.7 [1.17]	0.8 [1.20]	0.9 [1.22]	1.0 [1.25]			
2.0 [7.03]	Low (Tap 2)	700/900	10x9 1/4 HP [186] 2 Speed (X-13 Motor)	Low (Tap 2)	939 [443]	877 [414]	816 [385]	754 [356]	693 [327]	631 [298]	570 [269]	508 [240]	447 [211]	—			
				High (Tap 1)	607	634	688	761	815	880	946	989	1038	1091			
				Watts	161	145	159	173	182	196	210	220	231	237			
	2.5 [8.79]	Low (Tap 2)	875/1125	10x9 1/3 HP [249] 2 Speed (X-13 Motor)	Low (Tap 2)	1169 [552]	1109 [523]	1049 [495]	988 [466]	928 [438]	868 [410]	807 [381]	747 [363]	687 [324]	626 [295]		
					High (Tap 1)	631	677	732	784	843	894	942	1035	1077	1118		
					Watts	177	190	204	218	234	247	256	279	289	294		
3.0 [10.55]		Low (Tap 2)	1050/1350	10x9 1/2 HP [373] 2 Speed (X-13 Motor)	Low (Tap 2)	1328 [627]	1280 [604]	1231 [581]	1183 [558]	1135 [536]	1086 [513]	1038 [490]	990 [467]	941 [444]	893 [421]		
					High (Tap 1)	707	743	792	841	890	939	989	1036	1077	1114		
					Watts	248	261	277	292	307	322	334	348	366	358		
	3.5 [12.31]	Low (Tap 2)	1225/1575	11x9 1/2 HP [373] 2 Speed (X-13 Motor)	Low (Tap 2)	1542 [728]	1490 [703]	1438 [679]	1386 [654]	1335 [630]	1283 [606]	1231 [581]	1180 [557]	1128 [532]	1076 [508]		
					High (Tap 1)	244	231	237	254	270	285	304	313	326	340		
					Watts	598	617	662	714	758	800	849	876	913	951		
4.0 [14.07]		Low (Tap 2)	1400/1800	11x9 3/4 HP [559] 2 Speed (X-13 Motor)	Low (Tap 2)	1740 [821]	1695 [800]	1649 [778]	1604 [757]	1558 [735]	1513 [714]	1467 [692]	1422 [671]	1376 [649]	1331 [628]		
					High (Tap 1)	632	665	709	749	797	833	879	917	951	981		
					Watts	295	311	331	350	371	386	409	426	440	454		
	5.0 [17.6]	Low (Tap 2)	1750/2250	11x9 3/4 HP [559] 2 Speed (X-13 Motor)	Low (Tap 2)	1986 [937]	1945 [918]	1905 [899]	1864 [880]	1823 [860]	1782 [841]	1741 [822]	1700 [802]	1659 [783]	1618 [764]		
					High (Tap 1)	678	706	738	776	816	865	899	932	967	994		
					Watts	385	400	416	439	458	484	501	517	537	550		
5.0 [17.6]		Low (Tap 2)	1750/2250	11x9 3/4 HP [559] 2 Speed (X-13 Motor)	Low (Tap 2)	2229 [1052]	2190 [1034]	2152 [1016]	2114 [998]	2075 [979]	2037 [961]	1999 [943]	1960 [925]	1922 [907]	1884 [889]		
					High (Tap 1)	795	824	851	882	919	952	983	1013	1045	1077		
					Watts	619	638	658	680	703	724	745	764	784	804		

[ ] Designates Metric Conversions

# ELECTRICAL DATA—TZAH- SERIES

ELECTRICAL DATA – TZAH SERIES							
		24-2L	30-2L	36-2L	42-2L	48-2L	60-2L
Unit Information	Unit Operating Voltage Range	187-253	187-253	187-253	187-253	187-253	187-253
	Minimum Circuit Ampacity	20/20	21/21	26/26	27/27	32/32	41/41
	Minimum Overcurrent Protection Device Size	25/25	25/25	30/30	35/35	40/40	50/50
	Maximum Overcurrent Protection Device Size	30/30	35/35	40/40	40/40	50/50	60/60
Compressor Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230	208/230
	Phase	1	1	1	1	1	1
	HP	2	2.5	3	3.5	4	4.5
	RPM	3450	3450	3450	3450	3450	3450
	Amps (RLA)	13.5/13.5	14.1/14.1	17/17	17.9/17.9	21.2/21.2	26.4/26.4
	Amps (LRA)	54/54	73/73	96.7/96.7	112/112	115/115	134/134
Condenser Motor	No.	1	1	1	1	1	1
	Volts	208/230	208/230	208/230	208/230	208/230	208/230
	Phase	1	1	1	1	1	1
	HP	1/3	1/3	1/3	1/3	1/3	1/3
	Amps (FLA)	1.5	1.5	1.5	1.5	1.9	1.9
	Amps (LRA)	3	3	3	3	4	4
	Evaporator Fan	No.	1	1	1	1	1
Volts		208/230	208/230	208/230	208/230	208/230	208/230
Phase		1	1	1	1	1	1
HP		1/4	1/3	1/2	1/2	3/4	3/4
Amps (FLA)		1.5	1.8	2.5	2.8	3.2	5.8
Amps (LRA)		2.5	2.6	4.9	4.3	4.1	9



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

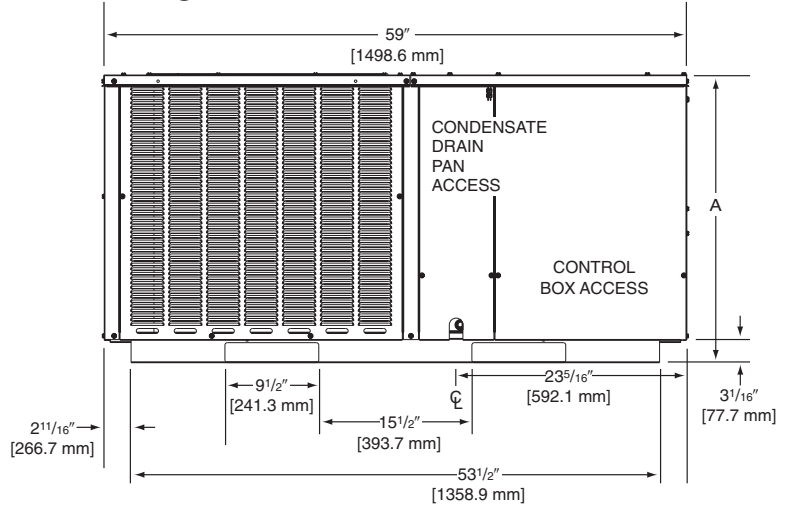
Separate Power Supply For Both Unit and Heater Kit										Heater Kit					Heat Pump				
Unit Model No. TZAH-	RXQJ-C Heater Kit Nominal kW	No. of Elements	No. of Sequence Steps	Rated Heater kW @ 208-240 V	Heater KBTU/Hr @ 208-240 V	Heater Amp. @ 208-240 V	Unit Min. Ckt. Ampacity @ 208-240 V	Over Current Protective Device Size		Min. Circuit Ampacity 208-240 V	Max. Fuse Size	Min. Circuit Ampacity 208-240 V	Over Current Protective Device Size						
								Min./Max. @ 208 V	Min./Max. @ 240 V				Min./Max. @ 208 V	Min./Max. @ 240 V					
24-2L	No Heat	—	—	—	—	—	20/20	25/30	25/30	20/20	—	25/30	25/30	25/30					
	C05J	1	1	3.6/4.8	12.28/16.38	17.33/20	24/27	25/30	30/30	—	25/25	—	—	—					
	C07J	1	1	5.4/7.2	18.42/24.56	26/30	35/40	35/35	40/40	—	35/40	—	—	—					
30-2L	C10J	2	1	7.2/9.6	24.57/32.76	34.7/40	46/52	50/50	60/60	—	45/50	—	—	—					
	No Heat	—	—	—	—	—	21/21	25/35	25/35	21/21	—	25/35	25/35	25/35					
	C05J	1	1	3.6/4.8	12.28/16.38	17.33/20	24/28	25/35	30/35	—	25/25	—	—	—					
36-2L	C07J	1	1	5.4/7.2	18.42/24.56	26/30	35/40	35/35	40/40	—	35/40	—	—	—					
	C10J	2	1	7.2/9.6	24.57/32.76	34.7/40	46/53	50/50	60/60	—	45/50	—	—	—					
	C15J	3	2	10.8/14.4	36.85/49.13	52/60	68/78	70/70	80/80	—	70/80	—	—	—					
42-2L	No Heat	—	—	—	—	—	26/26	30/40	30/40	26/26	—	30/40	30/40	30/40					
	C05J	1	1	3.6/4.8	12.28/16.38	17.33/20	26/29	30/40	30/40	—	25/25	—	—	—					
	C07J	1	1	5.4/7.2	18.42/24.56	26/30	36/41	40/40	45/45	—	35/40	—	—	—					
48-2L	C10J	2	1	7.2/9.6	24.57/32.76	34.7/40	47/54	50/50	60/60	—	45/50	—	—	—					
	C15J	3	2	10.8/14.4	36.85/49.13	52/60	69/79	70/70	80/80	—	70/80	—	—	—					
	C20J	4	2	14.4/19.2	49.12/65.52	69.33/80	91/104	100/100	110/110	—	90/100	—	—	—					
60-2L	No Heat	—	—	—	—	—	32/32	40/50	40/50	32/32	—	40/50	40/50	40/50					
	C05J	1	1	3.6/4.8	12.28/16.38	17.33/20	32/32	35/45	35/45	—	25/25	—	—	—					
	C07J	1	1	5.4/7.2	18.42/24.56	26/30	37/42	40/45	45/45	—	35/40	—	—	—					
60-2L	C10J	2	1	7.2/9.6	24.57/32.76	34.7/40	48/54	50/50	60/60	—	45/50	—	—	—					
	C15J	3	2	10.8/14.4	36.85/49.13	52/60	69/79	70/70	80/80	—	70/80	—	—	—					
	C20J	4	2	14.4/19.2	49.12/65.52	69.33/80	91/104	100/100	110/110	—	90/100	—	—	—					
60-2L	No Heat	—	—	—	—	—	41/41	50/60	50/60	41/41	—	50/60	50/60	50/60					
	C05J	1	1	3.6/4.8	12.28/16.38	17.33/20	41/41	50/60	50/60	—	25/25	—	—	—					
	C07J	1	1	5.4/7.2	18.42/24.56	26/30	41/45	50/60	50/60	—	35/40	—	—	—					
60-2L	C10J	2	1	7.2/9.6	24.57/32.76	34.7/40	51/58	60/60	60/60	—	45/50	—	—	—					
	C15J	3	2	10.8/14.4	36.85/49.13	52/60	73/83	80/80	90/90	—	70/80	—	—	—					
	C20J	4	2	14.4/19.2	49.12/65.52	69.33/80	94/108	100/100	110/110	—	90/100	—	—	—					

# UNIT DIMENSIONS—TZAH- SERIES

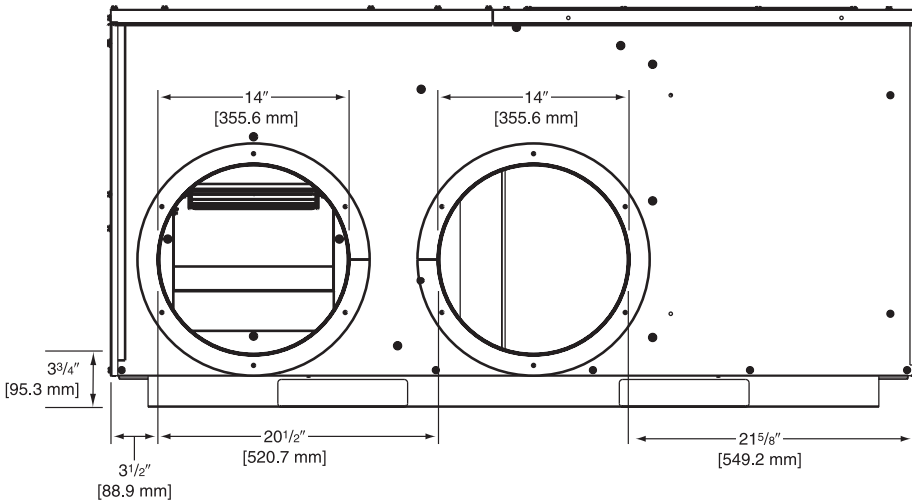
## DIMENSIONS

Model	Height "A"
024, 030, 036, 042	29 1/8"
048, 060	37 1/8"

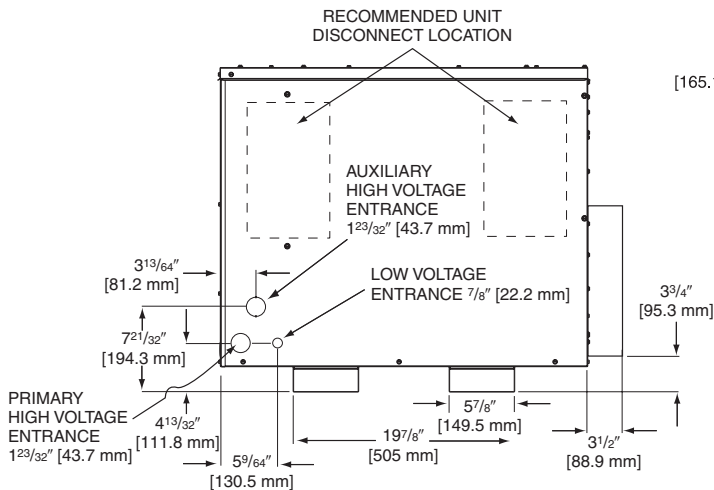
## FRONT VIEW



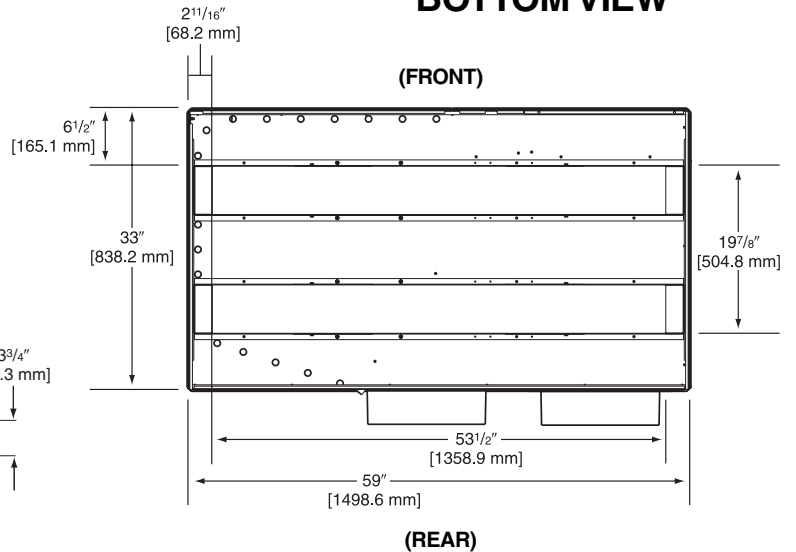
## REAR VIEW

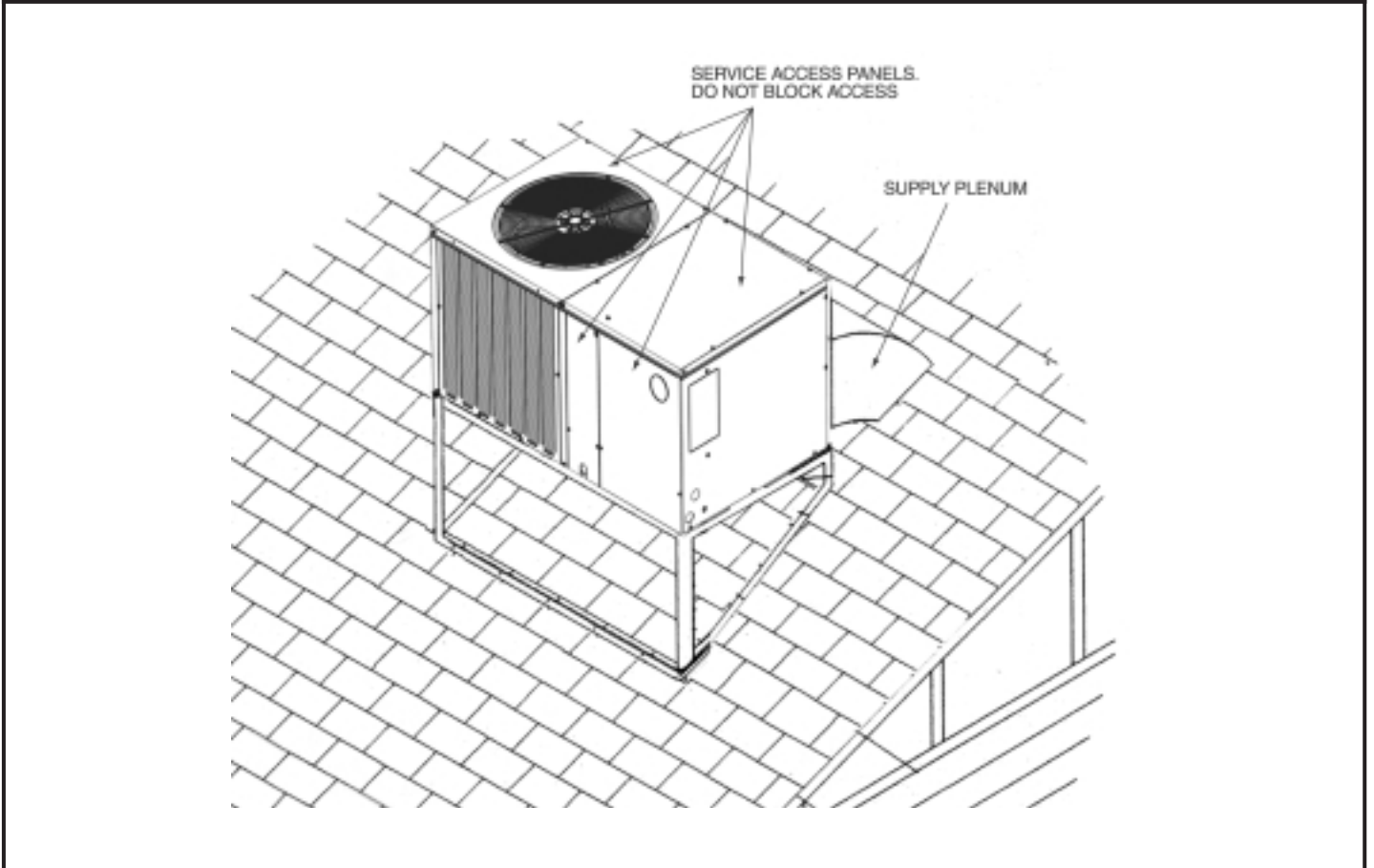
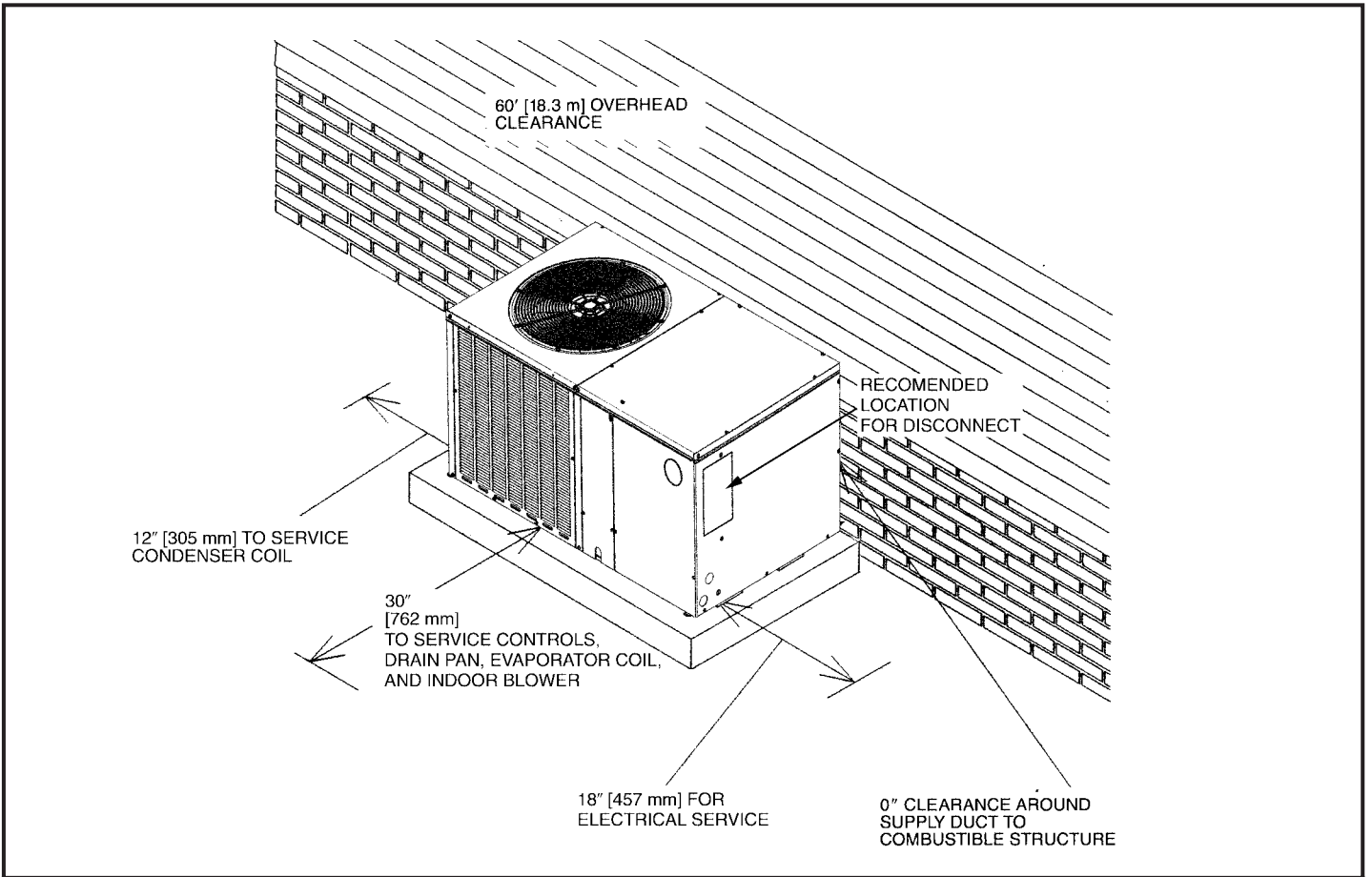


## ELECTRICAL CONNECTIONS



## BOTTOM VIEW



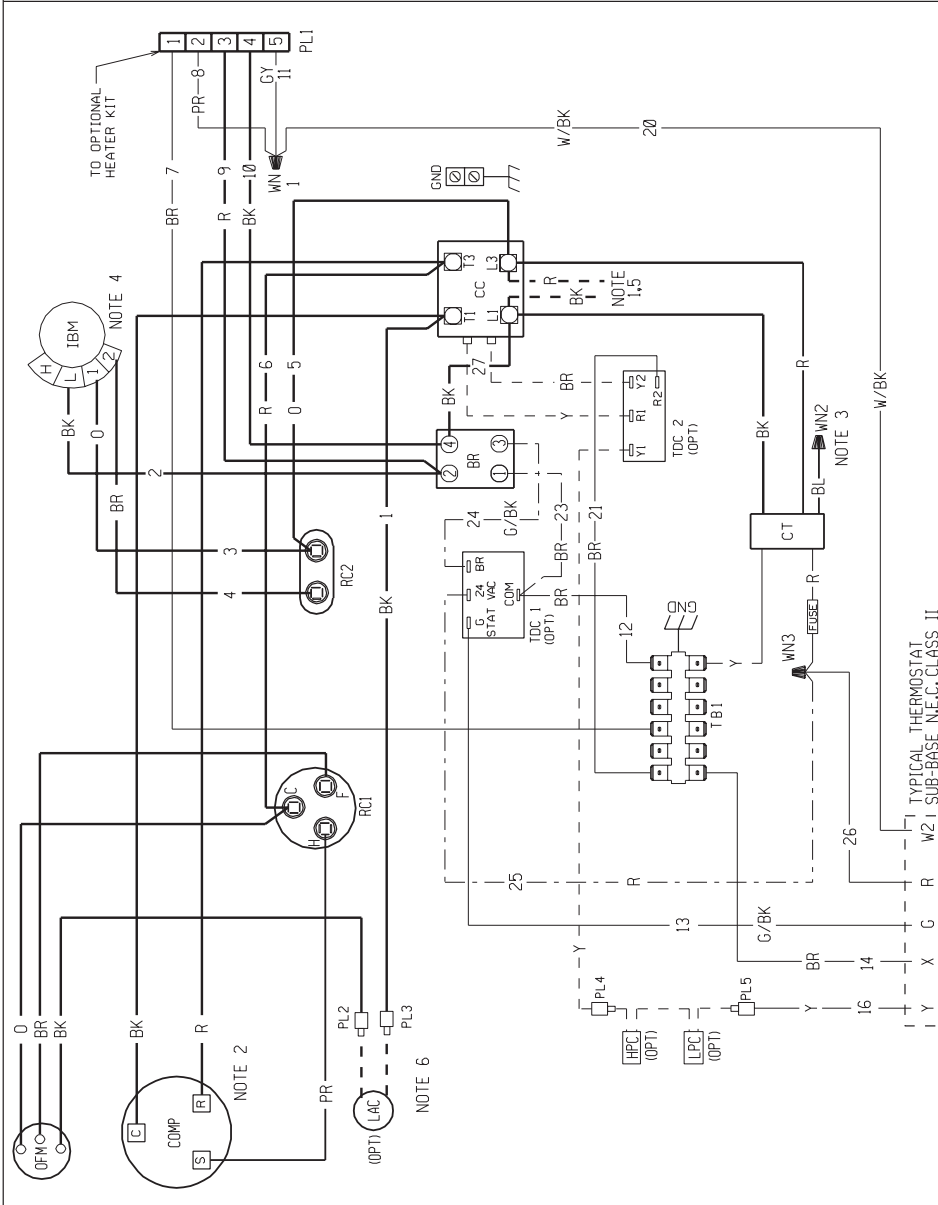
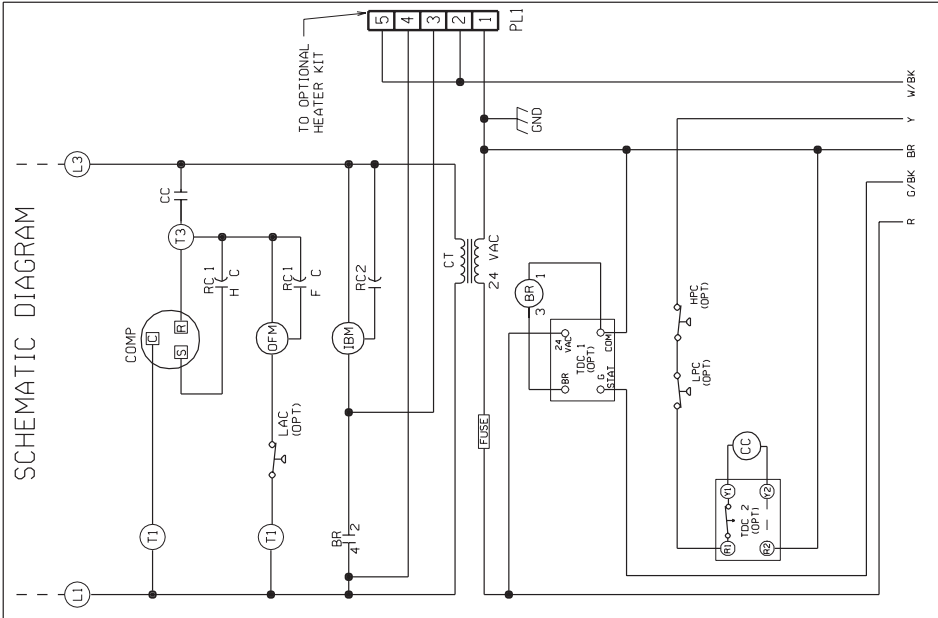


# ACCESSORIES

## ACCESSORY EQUIPMENT

Accessory Description	Model Application	Accessory Model No.
Outdoor Thermostat	TZAH	RXPT-A01

## SCHEMATIC DIAGRAM



<b>WIRE COLOR CODE</b>	
BK	BLACK
BR	BROWN
BL	BLUE
G	GREEN
GY	GRAY
O	ORANGE
PR	PURPLE
R	RED
W	WHITE
Y	YELLOW

<b>WIRING INFORMATION</b>	
---	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.)	
WARNING	
-CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C. AND LOCAL CODES AS APPLICABLE.	

<b>NOTES:</b>	
1.	CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2.	COMPRESSOR MOTOR THERMALLY PROTECTED.
3.	TRANSFORMER FACTORY WIRED FOR 230 VOLTS, USE RED AND BLUE LEADS FOR 208 VOLTS.
4.	MOTOR FACTORY WIRED FOR LOW SPEED, SEE AIRFLOW TABLES IN INSTALLATION INSTRUCTIONS TO DETERMINE CORRECT SPEED FOR UNIT APPLICATION.
5.	FIELD WIRING OR CONNECTION FROM HEATER KIT FUSE BLOCK.
6.	PL2 & PL3 ARE CONNECTED WHEN LAC IS NOT PRESENT.

<b>COMPONENT CODE</b>	
ALC	AUX. LIMIT CONTROL
BLR	BLOWER RELAY CONTACTOR
CC	CONDENSER CAPACITOR
CCM	CRANKCASE HEATER
COMP	COMPRESSOR
CT	CONTROL TRANSFORMER
GND	GROUND
HPC	HIGH PRESSURE CONTROL
IBM	INDOOR BLOWER MOTOR
LAC	LOW AMBIENT COOLING CONTROL
LPC	LINE VOLTAGE CONTROL
OFM	OPTIONAL FAN MOTOR
OPT	OPTIONAL
PI	PLUG
RC	RUN CAPACITOR
RC	RELAY CONTACT
TB	TERMINAL BLOCK
TDC	TIME DELAY CONTROL
W	WIRE NUT

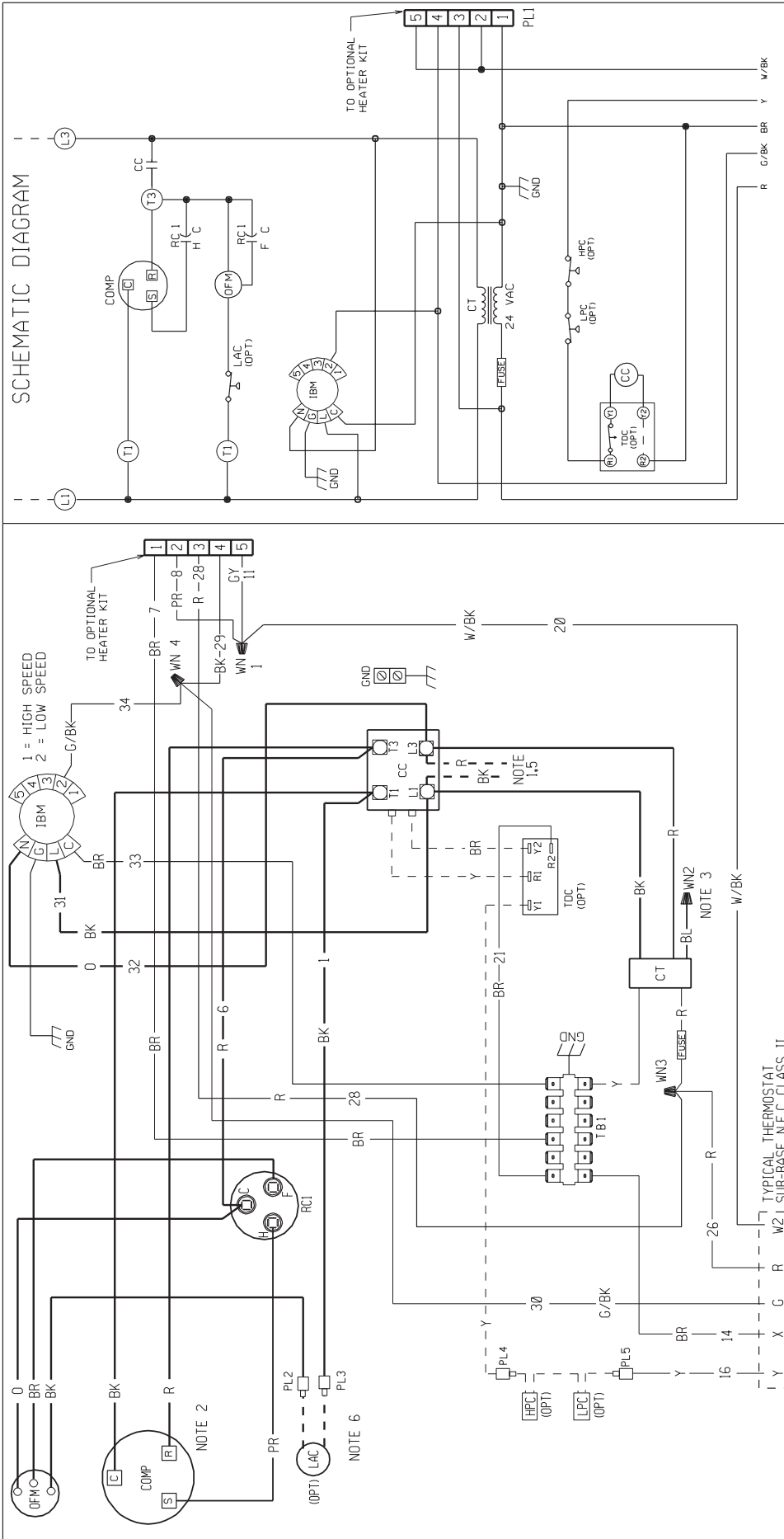
**ELECTRICAL WIRING DIAGRAM**

**PACKAGE AIR CONDITIONER**

1 PH, 208-230 VOLT - 60 HZ

REV	DWG. NO.	REV
02	90-23637-05	02
DR. BY	DATE	APP. BY
B.J.L.	03-09-04	B.J.L.

# WIRING SCHEMATICS—TZAH- SERIES



SCHEMATIC DIAGRAM

<p><b>WIRE COLOR CODE</b></p> <p>BK__BLACK GY__GRAY R___RED          BR__BROWN O___ORANGE W___WHITE          BL__BLUE PK__PINK Y___YELLOW          G___GREEN PR__PURPLE</p>	<p><b>WIRING INFORMATION</b></p> <p>LINE VOLTAGE          -FACTORY STANDARD          -FACTORY OPTION          -FIELD INSTALLED</p> <p>LOW VOLTAGE          -FACTORY STANDARD          -FACTORY OPTION          -FIELD INSTALLED</p> <p>REPLACEMENT WIRE          -MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105 C MIN.)          WARNING          -CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C. AND LOCAL CODES AS APPLICABLE.</p>	<p><b>NOTES:</b></p> <p>1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.          2. COMPRESSOR MOTOR THERMALLY PROTECTED.          3. TRANSFORMER FACTORY WIRED FOR 230 VOLTS. USE RED AND BLUE LEADS FOR 208 VOLTS.          4. MOTOR FACTORY WIRED FOR LOW SPEED. SEE AIRFLOW TABLES IN INSTALLATION INSTRUCTIONS TO DETERMINE CORRECT SPEED FOR UNIT APPLICATION.          5. FIELD WIRING OR CONNECTION FROM HEATER KIT FUSE BLOCK.          6. PL2 &amp; PL3 ARE CONNECTED WHEN LAC IS NOT PRESENT.</p>
<p><b>ELECTRICAL WIRING DIAGRAM</b></p> <p><b>PACKAGE AIR CONDITIONER</b></p> <p>1 PH., 208-230 VOLT - 60 HZ</p> <p>DR. BY APP. BY DATE DWG. NO. REV          JRJ 8-16-05 90-23637-09 00</p>	<p><b>COMPONENT CODE</b></p> <p>AUX LIMIT CONTROL LAC          BLOWER RELAY CONTROL          COMPRESSOR CONTACTOR OFM          CRANKCASE HEATER OPT          COMPRESSOR CONTROL PLUG PL          CONTROL TRANSFORMER CT          GROUND TB          HIGH PRESSURE CONTROL TDC          INDOOR BLOWER MOTOR</p>	<p><b>COMPONENT CODE</b></p> <p>LOW AMBIENT COOLING CONTROL LAC          OUTDOOR FAN MOTOR OPT          CRANKCASE HEATER OPT          COMPRESSOR CONTROL PLUG PL          RUN CAPACITOR CC          TERMINAL BLOCK TB          TIME DELAY CONTROL TDC          WIRE NUT</p>



**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.**

Compressor (1 Phase Residential Applications).....	Ten (10) Years
(Commercial Applications).....	Five (5) Years
*Any Other Part.....	Five (5) Years
Heating Elements.....	Five (5) Years

**\*All other parts and components carry a limited warranty of five years, provided they are single-phase products installed in a residential application. Products installed in commercial applications have a one (1) year limited parts warranty.**

**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."*