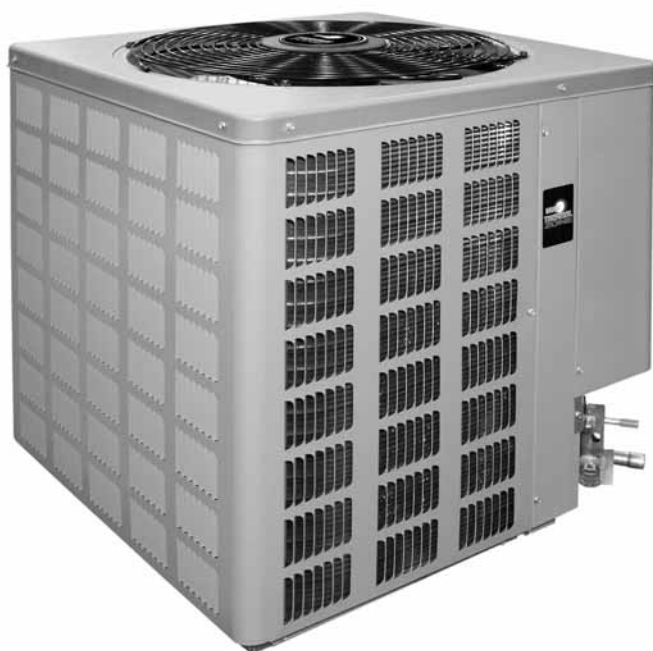




Featuring  
Industry Standard  
R-410A Refrigerant

**R-410A**



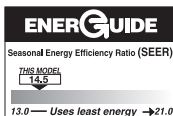
## TZPL SERIES

Efficiencies up to 14.5 SEER/12.00 EER/8.50 HSPF  
Nominal Sizes 1.5 to 5 Tons [5.28 kW] to [17.6 kW]

Manufactured for  
**Thermal Zone®**  
Philadelphia, PA



(IN CERTAIN  
MATCHED SYSTEMS)



## 14.5 SEER HEAT PUMPS

### Features

- Coils constructed with copper tubing and enhanced aluminum fins.
- Strong, attractive cabinet—louvered design protects the coil from damage.
- Expansion Valves with Internal Check Valve—Provides for quieter refrigerant metering.
- Enhanced Demand Defrost Control
- Factory Installed Low Pressure Control
- Non-Cycling Reversing Valve
- Hot Gas Muffler
- Service Valves
- Grille/motor mount for quiet fan operation.
- Easily accessible control box.
- Bi-Directional Filter Drier (shipped – not installed)
- Certified and rated under A.R.I. Standard 240.
- U.L listed.

### Applications

Thermal Zone® remote heat pumps offer comfort and dependability for single, multi-family and light commercial applications.

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Model Number Identification

<u>TZ</u>	<u>P</u>	<u>L</u>	<u>4</u>	<u>18</u>	<u>2</u>	<u>B</u>
THERMAL ZONE®	P = HEAT PUMP	<u>VOLTAGE</u> L = R-410A	4 = 14.5 SEER	<u>NOMINAL COOLING CAPACITY</u> 18 = 18,000 BTU/HR [5.28 kW] 24 = 24,000 BTU/HR [7.03 kW] 30 = 30,000 BTU/HR [8.79 kW] 36 = 36,000 BTU/HR [10.55 kW] 42 = 42,000 BTU/HR [12.31 kW] 48 = 48,000 BTU/HR [14.07 kW] 60 = 60,000 BTU/HR [17.58 kW]	2 = 208/230V – 1PH – 60 Hz	DESIGN SERIES

Accessories

- High Pressure Control (RXAB-A07)
- Low Ambient Control (RXAD-A08)
- Compressor Time Delay Control
- Sound Enclosure

Scroll® Compressor

The reliable scroll compressor is the key to efficiency for this Thermal Zone® model. It's the latest in high-efficiency compressor technology. The advanced scroll compressor offers low noise and vibration characteristics and features tolerance to liquid refrigerant and system contamination. The scroll compressor also has low start torque, reducing start problems in the field. And its unique design enables heat pumps to perform efficiently and quietly.

[ ] Designates Metric Conversions



## Performance Data @ AHRI Standard Conditions

Model Numbers		AHRI Cooling Performance							AHRI Heating Performance (70°F [21°C] Indoor)				
		80°F [26.5°C] DB/67°F [19.5°C] WB Indoor Air 95°F [35°C] DB Outdoor Air							Outdoor Air 47°F [8.5°C] DB/ 43°F [6°C] WB DOE High Temp.		Outdoor Air 17°F [-8.5°C] DB/ 15°F [-9.5°C] WB DOE Low Temp.		DOE Region IV HSPF
		Total Capacity BTU/H [kW]	Net Sens. BTU/H [kW]	Net Latent BTU/H [kW]	EER	SEER	Snd. Rate dB	Indoor CFM [L/s]	BTU/H [kW]	COP	BTU/H [kW]	COP	
Rev. 7/13/12  418-2B	TZHLL-2417(RCSL-H*2417) ①	18,600 [5.4]	13,550 [4.0]	5,050 [1.5]	12.00	14.50	76	600 [283]	17,800 [5.2]	3.68	10,900 [3.2]	2.36	8.20
	TCFL-H*2414	18,200 [5.3]	13,200 [3.9]	5,050 [1.5]	11.00	13.50	76	600 [283]	18,300 [5.4]	3.42	11,400 [3.3]	2.24	7.70
	TCFL-H*2417	18,200 [5.3]	13,200 [3.9]	5,050 [1.5]	11.00	13.50	76	600 [283]	18,300 [5.4]	3.42	11,400 [3.3]	2.24	7.70
	TCFL-H*2417(TZ92UP453TA)	18,500 [5.4]	13,500 [4.0]	5,000 [1.5]	12.00	14.50	76	575 [271]	17,800 [5.2]	3.64	10,900 [3.2]	2.34	8.20
	TCFL-H*2417(TZ92UP603TA)	18,500 [5.4]	13,450 [3.9]	5,050 [1.5]	12.00	14.50	76	600 [283]	17,800 [5.2]	3.66	10,900 [3.2]	2.34	8.20
	TCFL-H*2417(TZ92UP753TA)	18,400 [5.4]	13,400 [3.9]	5,000 [1.5]	12.00	14.50	76	625 [295]	17,900 [5.2]	3.6	11,000 [3.2]	2.32	8.20
	TCFL-H*2417(TZ92DH603TA)	18,600 [5.4]	13,550 [4.0]	5,050 [1.5]	12.00	14.50	76	575 [271]	17,800 [5.2]	3.7	10,900 [3.2]	2.36	8.20
	TZHSL-1817(RCSL-H*2417)	18,200 [5.3]	13,250 [3.9]	4,950 [1.5]	11.50	14.00	76	600 [283]	18,200 [5.3]	3.48	11,300 [3.3]	2.26	7.70
424-2B	TZHLL-2417(RCSL-H*2417) ①	23,800 [7.0]	17,150 [5.0]	6,650 [1.9]	12.00	14.50	74	800 [378]	22,800 [6.7]	3.64	14,400 [4.2]	2.44	8.50
	TCFL-H*2414	23,400 [6.9]	16,750 [4.9]	6,650 [1.9]	11.00	13.00	74	800 [378]	23,400 [6.9]	3.42	15,000 [4.4]	2.30	8.20
	TCFL-H*2417	23,400 [6.9]	16,750 [4.9]	6,650 [1.9]	11.00	13.00	74	800 [378]	23,400 [6.9]	3.42	15,000 [4.4]	2.30	8.20
	TCFL-H*2417(TZ92UP453TA)	23,600 [6.9]	17,000 [5.0]	6,600 [1.9]	11.50	14.00	74	800 [378]	23,000 [6.7]	3.56	14,600 [4.3]	2.38	8.20
	TCFL-H*2417(TZ92UP603TA)	23,600 [6.9]	17,000 [5.0]	6,600 [1.9]	11.50	14.00	74	825 [389]	23,000 [6.7]	3.56	14,600 [4.3]	2.38	8.20
	TCFL-H*2417(TZ92UP753TA)	23,800 [7.0]	17,350 [5.1]	6,450 [1.9]	11.50	13.50	74	850 [401]	23,200 [6.8]	3.52	14,700 [4.3]	2.36	8.20
	TCFL-H*2417(TZ92DH603TA)	23,600 [6.9]	16,800 [4.9]	6,800 [2.0]	12.00	14.50	74	750 [354]	22,800 [6.7]	3.66	14,400 [4.2]	2.44	8.50
	TZHSL-2417(RCSL-H*2417)	23,400 [6.9]	16,850 [4.9]	6,550 [1.9]	11.00	13.50	74	800 [378]	23,200 [6.8]	3.46	14,900 [4.4]	2.34	8.20
430-2B	TZHLL-3617(RCSL-H*3617) ①	29,600 [8.7]	22,050 [6.5]	7,550 [2.2]	12.00	14.50	73	1,000 [472]	28,800 [8.4]	3.62	17,900 [5.2]	2.40	9.00
	TCFL-H*3617	29,200 [8.6]	21,650 [6.3]	7,550 [2.2]	11.00	13.00	73	1,000 [472]	29,400 [8.6]	3.44	18,500 [5.4]	2.28	8.50
	TCFL-H*3617(TZ92UP453TA)	29,000 [8.5]	21,600 [6.3]	7,400 [2.2]	11.50	13.50	73	1,025 [484]	29,200 [8.6]	3.48	18,300 [5.4]	2.30	8.50
	TCFL-H*3617(TZ92UP603TA)	29,200 [8.6]	21,750 [6.4]	7,450 [2.2]	11.50	13.50	73	1,000 [472]	29,200 [8.6]	3.5	18,200 [5.3]	2.32	8.50
	TCFL-H*3617(TZ92UP753TA)	29,000 [8.5]	21,600 [6.3]	7,400 [2.2]	11.00	13.00	73	1,025 [484]	29,400 [8.6]	3.44	18,500 [5.4]	2.28	8.50
	TCFL-H*3617(TZ92DH603TA)	29,600 [8.7]	22,400 [6.6]	7,200 [2.1]	11.50	14.00	73	1,075 [507]	29,000 [8.5]	3.52	18,200 [5.3]	2.34	8.50
	TCFL-H*3621	29,200 [8.6]	21,650 [6.3]	7,550 [2.2]	11.00	13.00	73	1,000 [472]	29,400 [8.6]	3.44	18,500 [5.4]	2.28	8.50
	TCFL-H*3621(TZ92UP453TA)	29,200 [8.6]	21,800 [6.4]	7,400 [2.2]	11.50	13.50	73	1,025 [484]	29,200 [8.6]	3.48	18,300 [5.4]	2.32	8.50
	TCFL-H*3621(TZ92UP603TA)	29,200 [8.6]	21,750 [6.4]	7,450 [2.2]	11.50	13.50	73	1,000 [472]	29,000 [8.5]	3.52	18,200 [5.3]	2.34	8.50
	TCFL-H*3621(TZ92UP754TA)	29,000 [8.5]	21,600 [6.3]	7,400 [2.2]	11.50	13.50	73	975 [460]	29,200 [8.6]	3.5	18,300 [5.4]	2.32	8.50
	TCFL-H*3621(TZ92DH603TA)	29,600 [8.7]	22,400 [6.6]	7,200 [2.1]	11.50	14.00	73	1,075 [507]	29,000 [8.5]	3.54	18,200 [5.3]	2.34	8.50

① Highest sales volume tested combination required by D.O.E. test procedures.

[ ] Designates Metric Conversions

## Performance Data @ AHRI Standard Conditions

Model Numbers		AHRI Cooling Performance							AHRI Heating Performance (70°F [21°C] Indoor)				
		80°F [26.5°C] DB/67°F [19.5°C] WB Indoor Air 95°F [35°C] DB Outdoor Air							Outdoor Air 47°F [8.5°C] DB/ 43°F [6°C] WB DOE High Temp.		Outdoor Air 17°F [-8.5°C] DB/ 15°F [-9.5°C] WB DOE Low Temp.		DOE Region IV HSPF
		Total Capacity BTU/H [kW]	Net Sens. BTU/H [kW]	Net Latent BTU/H [kW]	EER	SEER	Snd. Rate dB	Indoor CFM [L/s]	BTU/H [kW]	COP	BTU/H [kW]	COP	
Rev. 7/13/12 430-2B	TCFL-H*3621(TZ95DH754TA)	29,200 [8.6]	21,500 [6.3]	7,700 [2.3]	12.00	14.50	73	950 [448]	28,800 [8.4]	3.64	17,800 [5.2]	2.40	8.50
	TCFL-H*3621(TZ95DH905TA)	29,600 [8.7]	22,050 [6.5]	7,550 [2.2]	12.00	14.50	73	975 [460]	28,800 [8.4]	3.64	17,800 [5.2]	2.40	8.50
	TZHS�-3017(RCSL-H*3617)	28,800 [8.4]	21,200 [6.2]	7,600 [2.2]	11.00	13.50	73	950 [448]	29,200 [8.6]	3.48	18,300 [5.4]	2.32	8.50
436-2B	TZHL-3617(RCSL-H*3617) ①	35,600 [10.4]	25,700 [7.5]	9,900 [2.9]	12.00	14.50	75	1,175 [554]	35,000 [10.3]	3.58	23,000 [6.7]	2.44	9.00
	TCFL-H*3617	34,400 [10.1]	24,500 [7.2]	9,900 [2.9]	11.00	13.50	75	1,075 [507]	35,400 [10.4]	3.48	23,400 [6.9]	2.42	8.50
	TCFL-H*3617(TZ92DH603TA)	35,400 [10.4]	25,550 [7.5]	9,850 [2.9]	12.00	14.00	75	1,075 [507]	35,000 [10.3]	3.56	23,000 [6.7]	2.50	8.50
	TCFL-H*3621	34,400 [10.1]	24,500 [7.2]	9,900 [2.9]	11.00	13.50	75	1,075 [507]	35,400 [10.4]	3.48	23,400 [6.9]	2.42	8.50
	TCFL-H*3621(TZ92UP105TA)	35,800 [10.5]	26,300 [7.7]	9,500 [2.8]	11.50	14.00	75	1,150 [543]	35,200 [10.3]	3.52	23,200 [6.8]	2.46	8.50
	TCFL-H*3621(TZ92DH603TA)	35,400 [10.4]	25,550 [7.5]	9,850 [2.9]	12.00	14.00	75	1,075 [507]	35,000 [10.3]	3.58	23,000 [6.7]	2.50	8.50
	TCFL-H*3621(TZ95DH754TA)	35,800 [10.5]	26,100 [7.6]	9,700 [2.8]	12.00	14.50	75	1,125 [531]	35,000 [10.3]	3.6	23,000 [6.7]	2.52	8.50
	TCFL-H*3621(TZ95DH905TA)	36,200 [10.6]	27,050 [7.9]	9,150 [2.7]	12.00	14.00	75	1,225 [578]	35,200 [10.3]	3.54	23,200 [6.8]	2.48	8.50
	TZHS�-3617(RCSL-H*3617)	35,200 [10.3]	25,450 [7.5]	9,750 [2.9]	11.00	13.50	75	1,100 [519]	35,600 [10.4]	3.46	23,600 [6.9]	2.42	8.50
442-2B	TZHL-4821(RCSL-H*4821) ①	40,000 [11.7]	29,250 [8.6]	10,750 [3.1]	12.00	14.50	77	1,350 [637]	39,000 [11.4]	3.86	25,600 [7.5]	2.74	9.00
	TCFL-H*4821	39,000 [11.4]	28,500 [8.4]	10,750 [3.1]	11.00	13.00	77	1,350 [637]	40,000 [11.7]	3.64	26,400 [7.7]	2.60	8.50
	TCFL-H*4821(TZ92UP905TA)	39,000 [11.4]	28,800 [8.4]	10,200 [3.0]	11.00	13.00	77	1,400 [661]	40,000 [11.7]	3.66	26,400 [7.7]	2.60	8.50
	TCFL-H*4821(TZ92UP105TA)	39,500 [11.6]	29,450 [8.6]	10,050 [2.9]	11.00	13.00	77	1,425 [672]	40,000 [11.7]	3.62	26,400 [7.7]	2.58	8.50
	TCFL-H*4821(TZ95DH754TA)	39,500 [11.6]	28,850 [8.5]	10,650 [3.1]	11.50	14.00	77	1,325 [625]	39,000 [11.4]	3.8	25,800 [7.6]	2.70	8.50
	TCFL-H*4821(TZ95DH905TA)	39,500 [11.6]	29,200 [8.6]	10,300 [3.0]	11.50	13.50	77	1,400 [661]	39,500 [11.6]	3.72	26,200 [7.7]	2.64	8.50
	TCFL-H*4824	39,000 [11.4]	28,500 [8.4]	10,750 [3.1]	11.00	13.00	77	1,350 [637]	40,000 [11.7]	3.64	26,400 [7.7]	2.60	8.50
	TCFL-H*4824(TZ92UP905TA)	39,000 [11.4]	28,800 [8.4]	10,200 [3.0]	11.00	13.00	77	1,400 [661]	40,000 [11.7]	3.64	26,400 [7.7]	2.60	8.50
	TCFL-H*4824(TZ92UP105TA)	39,500 [11.6]	29,450 [8.6]	10,050 [2.9]	11.00	13.00	77	1,425 [672]	40,000 [11.7]	3.62	26,600 [7.8]	2.58	8.50
	TCFL-H*4824(TZ92UP125TA)	39,500 [11.6]	29,350 [8.6]	10,150 [3.0]	11.50	13.50	77	1,425 [672]	39,500 [11.6]	3.7	26,200 [7.7]	2.64	8.50
	TCFL-H*4824(TZ95DH754TA)	39,500 [11.6]	28,850 [8.5]	10,650 [3.1]	11.50	14.00	77	1,325 [625]	39,000 [11.4]	3.8	25,800 [7.6]	2.70	8.50
	TCFL-H*4824(TZ95DH905TA)	39,500 [11.6]	29,200 [8.6]	10,300 [3.0]	11.50	13.50	77	1,400 [661]	39,500 [11.6]	3.72	26,200 [7.7]	2.64	8.50
	TCFL-H*4824(TZ92DH105TA)	39,500 [11.6]	29,300 [8.6]	10,200 [3.0]	11.50	13.50	77	1,425 [672]	39,500 [11.6]	3.76	26,000 [7.6]	2.66	8.50
	TZHS�-4221(RCSL-H*4821)	39,000 [11.4]	28,500 [8.4]	10,500 [3.1]	11.00	13.00	77	1,350 [637]	40,000 [11.7]	3.62	26,600 [7.8]	2.58	8.50

① Highest sales volume tested combination required by D.O.E. test procedures.

[ ] Designates Metric Conversions

## Performance Data @ AHRI Standard Conditions

Model Numbers		AHRI Cooling Performance							AHRI Heating Performance (70°F [21°C] Indoor)				
		80°F [26.5°C] DB/67°F [19.5°C] WB Indoor Air 95°F [35°C] DB Outdoor Air							Outdoor Air 47°F [8.5°C] DB/ 43°F [6°C] WB DOE High Temp.		Outdoor Air 17°F [-8.5°C] DB/ 15°F [-9.5°C] WB DOE Low Temp.		DOE Region IV HSPF
Outdoor Unit TZPL	Indoor Coil and/or Air Handler	Total Capacity BTU/H [kW]	Net Sens. BTU/H [kW]	Net Latent BTU/H [kW]	EER	SEER	Snd. Rate dB	Indoor CFM [L/s]	BTU/H [kW]	COP	BTU/H [kW]	COP	
Rev. 7/13/12          448-2B	TZHLL-4821(RCSL-H*4821) ①	47,500 [13.9]	33,450 [9.8]	14,050 [4.1]	12.00	14.50	77	1,500 [708]	47,500 [13.9]	3.72	33,200 [9.7]	2.76	9.00
	TCFL-H*4821	47,000 [13.8]	32,950 [9.7]	14,050 [4.1]	11.50	13.50	77	1,500 [708]	48,000 [14.1]	3.46	33,800 [9.9]	2.68	8.50
	TCFL-H*4821(TZ95DH754TA)	47,000 [13.8]	33,100 [9.7]	13,900 [4.1]	11.50	13.50	77	1,475 [696]	48,000 [14.1]	3.5	33,600 [9.8]	2.72	8.50
	TCFL-H*4821(TZ95DH905TA)	46,500 [13.6]	31,950 [9.4]	14,550 [4.3]	11.50	13.50	77	1,400 [661]	47,500 [13.9]	3.52	33,400 [9.8]	2.72	8.50
	TCFL-H*4824	47,000 [13.8]	32,950 [9.7]	14,050 [4.1]	11.50	13.50	77	1,500 [708]	48,000 [14.1]	3.46	33,800 [9.9]	2.68	8.50
	TCFL-H*4824(TZ95DH754TA)	47,000 [13.8]	33,100 [9.7]	13,900 [4.1]	11.50	13.50	77	1,475 [696]	48,000 [14.1]	3.5	33,600 [9.8]	2.72	8.50
	TCFL-H*4824(TZ95DH905TA)	46,500 [13.6]	31,950 [9.4]	14,550 [4.3]	11.50	13.50	77	1,400 [661]	47,500 [13.9]	3.52	33,400 [9.8]	2.72	8.50
	TCFL-H*4824(TZ92DH105TA)	47,000 [13.8]	32,550 [9.5]	14,450 [4.2]	11.50	14.00	77	1,425 [672]	47,500 [13.9]	3.54	33,200 [9.7]	2.74	8.50
	TZHSL-4821(RCSL-H*4821)	47,000 [13.8]	33,150 [9.7]	13,850 [4.1]	11.50	13.50	77	1,525 [720]	48,000 [14.1]	3.44	34,000 [10.0]	2.66	8.50
	TZHLL-4824(RCSL-H*4824)	48,000 [14.1]	34,750 [10.2]	13,250 [3.9]	12.00	14.50	77	1,625 [767]	47,500 [13.9]	3.6	33,000 [9.7]	2.78	9.00
	TZHSL-4824(RCSL-H*4824)	47,000 [13.8]	33,150 [9.7]	13,850 [4.1]	11.50	13.50	77	1,500 [708]	48,000 [14.1]	3.44	34,000 [10.0]	2.66	8.50
460-2B	TZHLL-6024(RCSL-H*6024) ①	59,500 [17.4]	43,000 [12.6]	16,600 [4.9]	12.00	14.50	77	1,800 [849]	61,000 [17.9]	3.8	40,000 [11.7]	2.68	8.50
	TCFL-H*6024	58,500 [17.1]	41,000 [12.0]	17,500 [5.1]	11.50	13.50	77	1,675 [790]	60,000 [17.6]	3.52	39,000 [11.4]	2.28	8.20

① Highest sales volume tested combination required by D.O.E. test procedures.

[ ] Designates Metric Conversions

## Electrical and Physical Data

Model Number TZPL	ELECTRICAL							PHYSICAL					
	Phase Frequency (Hz) Voltage (Volts)	Compressor		Fan Motor Full Load Amperes (FLA)	Minimum Circuit Ampacity Amperes	Fuse or HACR Circuit Breaker		Outdoor Coil			Refrig. Per Circuit Oz. [g]	Weight	
		Rated Load Amperes (RLA)	Locked Rotor Amperes (LRA)			Minimum Amperes	Maximum Amperes	Face Area Sq. Ft. [m²]	No. Rows	CFM [L/s]		Net Lbs. [kg]	Shipping Lbs. [kg]
Rev. 7/13/2012													
418-2B	1-60-208/230	9/9	48	0.8	13/13	15/15	20/20	13.72 [1.27]	1	2590 [1222]	101.6 [2880]	154 [69.9]	164 [69.9]
424-2B	1-60-208/230	12.8/12.8	58.3	0.8	17/17	25/25	25/25	13.72 [1.27]	1	2590 [1222]	100.8 [2858]	155 [70.3]	165 [70.3]
430-2B	1-60-208/230	14.1/14.1	73	1.23	19/19	25/25	30/30	16.39 [1.52]	1	2595 [1225]	117.8 [3340]	168.5 [76.4]	181 [76.4]
436-2B	1-60-208/230	16.7/16.7	79	1.3	23/23	30/30	35/35	21.85 [2.03]	1	3575 [1687]	136.5 [3870]	193 [87.5]	207 [87.5]
442-2B	1-60-208/230	17.9/17.9	112	1.33	24/24	30/30	40/40	21.85 [2.03]	1	3575 [1687]	162.4 [4604]	193 [87.5]	208 [87.5]
448-2B	1-60-208/230	21.8/21.8	117	2.8	31/31	40/40	50/50	21.85 [2.03]	2	3360 [1586]	258.4 [7326]	265 [120.2]	280 [120.2]
460-2B	1-60-208/230	26.4/26.4	134	2.8	36/36	45/45	60/60	21.85 [2.03]	2	3360 [1586]	284 [8051]	265 [120.2]	280 [120.2]

NOTE: Factory Refrigerant Charge includes refrigerant for 15 feet of standard line set.

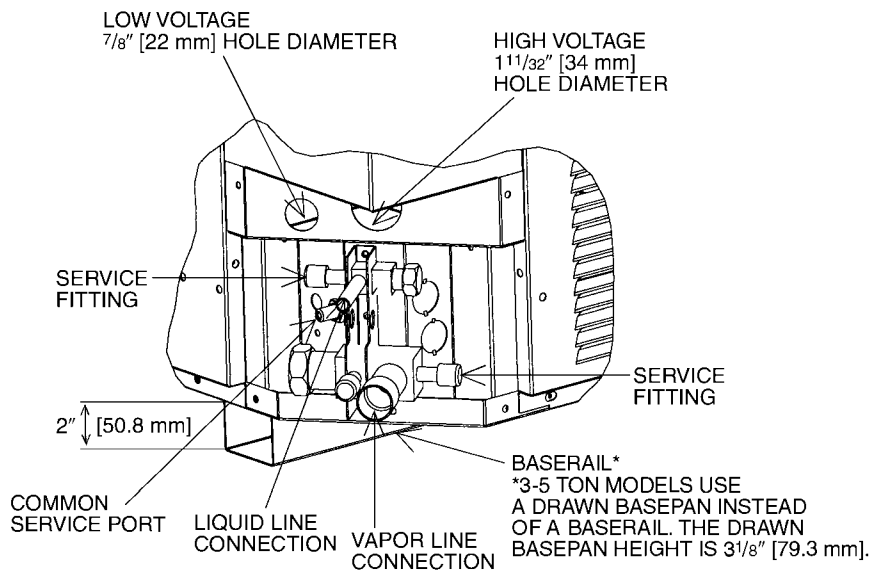
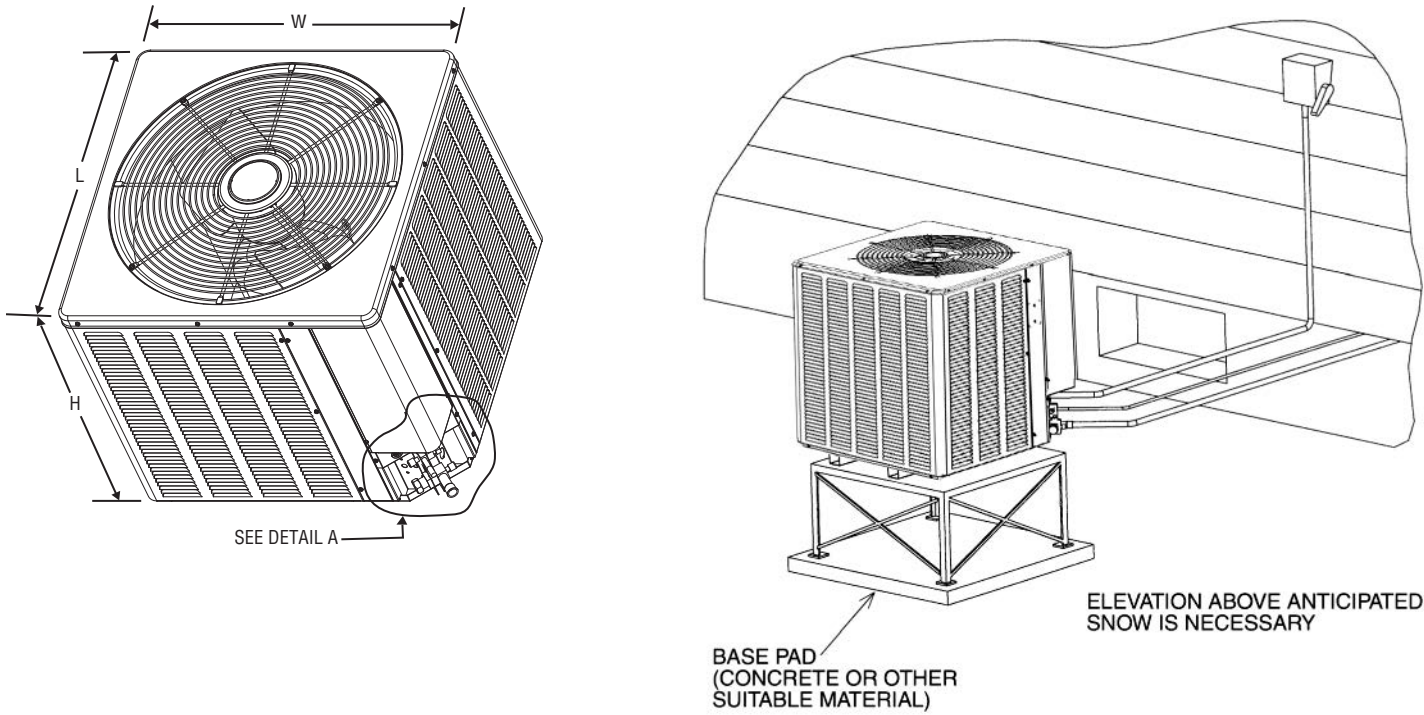
[ ] Designates Metric Conversions

Unit Dimensions

Model No. TZPL	Unit Dimensions		
	Width "W" Inches [mm]	Length "L" Inches [mm]	Height "H"* Inches [mm]
18, 24	27 <sup>5</sup> / <sub>8</sub> [701.6]	27 <sup>5</sup> / <sub>8</sub> [701.6]	26 <sup>1</sup> / <sub>4</sub> [666.7]
30	31 <sup>5</sup> / <sub>8</sub> [803.2]	31 <sup>5</sup> / <sub>8</sub> [803.2]	27 <sup>3</sup> / <sub>8</sub> [695.3]
36, 42, 48, 60	31 <sup>5</sup> / <sub>8</sub> [803.2]	31 <sup>5</sup> / <sub>8</sub> [803.2]	35 <sup>3</sup> / <sub>8</sub> [899]

\*Dimensions includes Baserrails and/or basepan.

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DETAIL A



## Heat Pump Refrigerant Line Size Information

System Capacity	Line Size Connection Size (Inch I.D.) [mm]	Line Size (Inch O.D.) [mm]	Liquid Line Sizing (R410A) Outdoor Unit Above or Below Indoor Coil (Heat Pumps Only)					
			Total Equivalent Length—Feet [m]					
			25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	125 [38.10]	150 [45.72]
			Maximum Vertical Separation—Feet [m]					
1½ Ton	3/8" [9.53]	1/4 [6.35]	25 [7.62]	40 [12.19]	25 [7.62]	9 [2.74]	N/A	N/A
		5/16 [7.94]	25 [7.62]	50 [15.24]	62 [18.90]	58 [17.68]	53 [16.15]	49 [14.94]
		3/8* [9.53]	25 [7.62]	50 [15.24]	75 [22.86]	72 [21.95]	70 [21.34]	68 [20.73]
2 Ton	3/8" [9.53]	1/4 [6.35]	23 [7.01]	N/A	N/A	N/A	N/A	N/A
		5/16 [7.94]	25 [7.62]	36 [10.97]	29 [8.84]	23 [7.01]	16 [4.88]	9 [2.74]
		3/8* [9.53]	25 [7.62]	50 [15.24]	72 [21.95]	70 [21.34]	68 [20.73]	65 [19.81]
2½ Ton	3/8" [9.53]	1/4 [6.35]	25 [7.62]	N/A	N/A	N/A	N/A	N/A
		5/16 [7.94]	25 [7.62]	49 [14.94]	38 [11.58]	27 [8.23]	17 [5.18]	6 [1.83]
		3/8* [9.53]	25 [7.62]	50 [15.24]	68 [20.73]	65 [19.81]	62 [18.90]	58 [17.68]
3 Ton	3/8" [9.53]	5/16 [7.94]	25 [7.62]	50 [15.24]	37 [11.28]	22 [6.71]	7 [2.13]	N/A
		3/8* [9.53]	25 [7.62]	50 [15.24]	68 [20.73]	63 [19.20]	58 [17.68]	53 [16.15]
3½ Ton	3/8" [9.53]	5/16 [7.94]	25 [7.62]	23 [7.01]	4 [1.22]	N/A	N/A	N/A
		3/8* [9.53]	25 [7.62]	50 [15.24]	43 [13.11]	36 [10.97]	30 [9.14]	24 [7.32]
4 Ton	3/8" [9.53]	3/8* [9.53]	25 [7.62]	46 [14.02]	38 [11.58]	30 [9.14]	22 [6.71]	15 [4.57]
		1/2 [12.7]	25 [7.62]	50 [15.24]	56 [17.07]	55 [16.76]	53 [16.15]	52 [15.85]
5 Ton	3/8" [9.53]	3/8* [9.53]	25 [7.62]	50 [15.24]	56 [17.07]	44 [13.41]	32 [9.75]	20 [6.10]
		1/2 [12.7]	25 [7.62]	50 [15.24]	75 [22.86]	81 [24.69]	79 [24.08]	76 [23.16]

## NOTES:

\*Standard line size

N/A = Application not recommended.

Suction Line Length/Size versus Capacity Multiplier (R-410A)								
Unit Size	1½ Ton	2 Ton	2½ Ton	3 Ton	3½ Ton	4 Ton	5 Ton	
Suction Line Connection Size	3/4" [19.05] I.D.				7/8" [22.23] I.D.			
Suction Line Run—Feet [m]	5/8" [15.88 mm] O.D. Opt. 3/4" [19.05 mm] O.D. Std.*	5/8" [15.88 mm] O.D. Opt. 3/4" [19.05 mm] O.D. Std.*	5/8" [15.88 mm] O.D. Opt. 3/4" [19.05 mm] O.D. Std.*	3/4" [19.05 mm] O.D. Opt. 7/8" [22.23 mm] O.D. Std.*	3/4" [19.05 mm] O.D. Opt. 7/8" [22.23 mm] O.D. Std.*	7/8" [22.23 mm] O.D. Opt. 1 1/8" [28.58 mm] O.D. Std.*	7/8" [22.23 mm] O.D. Opt. 1 1/8" [28.58 mm] O.D. Std.*	
25' [7.62]	Optional Standard Optional	1.00 1.00 —	1.00 1.00 —	1.00 1.00 1.00	1.00 1.00 —	1.00 1.00 —	1.00 1.00 —	1.00 1.00 —
50' [15.24]	Optional Standard Optional	0.98 0.99 —	0.98 0.99 —	0.96 0.98 0.99	0.98 0.99 —	0.99 0.99 —	0.99 0.99 —	0.99 0.99 —
100' [30.48]	Optional Standard Optional	0.95 0.96 —	0.95 0.96 —	0.94 0.96 0.97	0.96 0.97 —	0.96 0.98 —	0.96 0.98 —	0.97 0.98 —
150' [45.72]	Optional Standard Optional	0.92 0.93 —	0.92 0.94 —	0.91 0.93 0.95	0.94 0.95 —	0.94 0.96 —	0.95 0.96 —	0.94 0.97 —

## NOTES:

\*Standard line size

N/A = Using suction line larger than shown in chart will result in poor oil return and is not recommended.

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**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 period stated, in accordance with the terms of the limited warranty.

**\*For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.**

Conditional Parts  
(Registration Required) .....Ten (10) Years



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**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.**

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