



# PACKAGE GAS ELECTRIC UNITS

FORM NO. RTZ-840

Featuring New Industry Standard R-410A Refrigerant

**R-410A**

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



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



*"Proper sizing and installation of equipment is critical to achieve optimal performance. Ask your Contractor for details or visit [www.energystar.gov](http://www.energystar.gov)."*

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## *These quality features are included in the Thermal Zone® Package Gas Electric Unit*



### **STANDARD FEATURES INCLUDE:**

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

# INTRODUCTION

## These quality features are included in the Thermal Zone® Package Gas Electric Unit

### Evaporator Coil/Filter Access

- Return air filters, normally provided, are removed in this photo.



- Non-corrosive plastic condensate pan



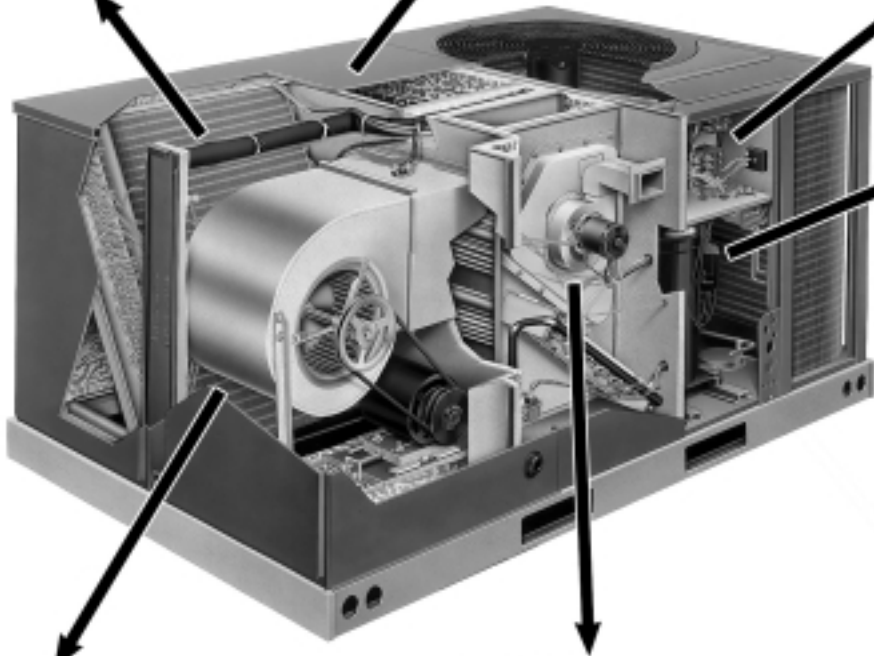
### Tubular Heat Exchanger

- Aluminized steel (viewed from supply air side panel.)
- Stainless steel available

### Control Box Access



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



### Blower Access

- Belt drive model shown. (Available on 3-phase models only.)



### Heating Compartment Access

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# SELECTION PROCEDURE EXAMPLE—TZCGE-3 SERIES

## 1. Determine cooling and heating requirements at design conditions.

Example:

|                                 |                               |
|---------------------------------|-------------------------------|
| Power Supply .....              | 208/230-3 Phase               |
| Total cooling capacity .....    | 42,500 BTUH [12.44 kW]        |
| Sensible cooling capacity ..... | 34,000 BTUH [9.96 kW]         |
| Heating capacity .....          | 96,000 BTUH [28.13 kW]        |
| Condenser entering air .....    | 95°F [35°C]                   |
| Evaporator entering air .....   | 63°F [17°C] wb/76°F [24°C] db |
| Indoor air flow .....           | 1600 CFM [755 L/s]            |
| External static pressure.....   | 1.1 in wg                     |
| Required efficiency .....       | 13 SEER                       |

## 2. Select unit to meet cooling requirements.

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

|                         |                        |
|-------------------------|------------------------|
| Total capacity .....    | 45,100 BTUH [13.21 kW] |
| Sensible capacity ..... | 44,100 BTUH [12.01 kW] |
| Power input .....       | 3.6 kW                 |

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

|                         |                        |
|-------------------------|------------------------|
| Sensible capacity ..... | 38,327 BTUH [11.22 kW] |
|-------------------------|------------------------|

## 3. Select heating capacity of the unit.

In the general data tables, note that the heating capacity of the 4 ton [14.07 kW] model with the 135,000 input heater can deliver 109,400 BTUH [32.03 kW], which is suitable for this application.

## 4. Determine blower speed and power to meet the system requirements.

At the given external static pressure of 1.1 in wg, the belt model must be selected. Enter the belt drive blower performance data at 1600

CFM [755 L/s] and 1.1 in wg ESP:

RPM .....1195

Watts.....755

Drive .....M

## 5. Calculate indoor blower BTUH heat effect.

BTUH = Watts x 3.413 = 2577

## 6. Calculate net cooling capacities.

Net total cooling = 45,100 – 2577 = 42,523 BTUH [12.45 kW]

Net sensible cooling = 41,708 – 2577 = 35,750 BTUH [10.47 kW]

## 7. Select model

TZCGE-3

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# MODEL IDENTIFICATION—TZCGE-3 SERIES



| <u>TZ</u>     | <u>C</u>   | <u>GE</u>    | <u>— 3</u>  | <u>36</u>  | <u>C</u>  | <u>L</u>   | <u>D</u>         | <u>080</u>  | <u>A</u> |
|---------------|------------|--------------|-------------|--|---|------------|------------------|---|----------|
| THERMAL ZONE* | COMMERCIAL | GAS ELECTRIC | 3 = 13 SEER | COOLING CAPACITY (BTUH) [kW]<br>036 = 36,000 [10.55]<br>042 = 42,000 [12.31]<br>048 = 48,000 [14.07]<br>060 = 60,000 [17.58] | ELECTRICAL DESIGNATION<br>C = 208-230V, 3 PH, 60Hz<br>D = 460V, 3 PH, 60 Hz<br>J = 208-230V, 1 PH 60 Hz | L = R-410A | D = DIRECT DRIVE | HEATING CAPACITY (MBH)<br>08 = 80,000 [23.5]<br>10 = 100,000 [29.3]<br>12 = 120,000 [35.2]<br>13 = 135,000 [39.6] | REVISION |

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**FACTORY INSTALLED OPTION CODES FOR TZCGE-3 (3-5 TON) [10.6-17.6 kW]**

| Option Code | Hail Guard | Stainless Steel Heat Exchanger | Non-Powered Convenience Outlet/Unfused Service Disconnect | Low Ambient/Freeze Stat |
|-------------|------------|--------------------------------|---|-------------------------|
| AD          | x          |                                |   |                         |
| AJ          |            | x                              |   |                         |
| AH          |            |                                | x   |                         |
| AP          |            |                                |   | x                       |
| BF          | x          |                                | x   |                         |
| BG          | x          | x                              |   |                         |
| BY          | x          |                                |   | x                       |
| JB          |            | x                              | x   |                         |
| CR          | x          | x                              |   | x                       |
| DN          | x          | x                              | x   | x                       |

**ECONOMIZER SELECTION FOR TZCGE-3 (3-5 TON) [10.6-17.6 kW]**

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

“x” indicates factory installed option.

[ ] Designates Metric Conversions

# GENERAL DATA—TZCGE-3 SERIES

## NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model TZCGE- Series   | 336CLD080A              | 336CLD120A              | 336CLB080A              | 336CLB120A              |
|---|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Cooling Performance<sup>1</sup></b>                        |                         |                         |                         |                         |
| Gross Cooling Capacity Btu [kW]                               | 36,800 [10.78]          | 36,800 [10.78]          | 36,800 [10.78]          | 36,800 [10.78]          |
| EER/SEER <sup>2</sup>   | 11.4/13                 | 11.4/13                 | 11.4/13                 | 11.4/13                 |
| Nominal CFM/ARI Rated CFM [L/s]                               | 1200/1200 [566/566]     | 1200/1200 [566/566]     | 1200/1200 [566/566]     | 1200/1200 [566/566]     |
| ARI Net Cooling Capacity Btu [kW]                             | 35,400 [10.37]          | 35,400 [10.37]          | 35,400 [10.37]          | 35,400 [10.37]          |
| Net Sensible Capacity Btu [kW]                                | 26,200 [7.68]           | 26,200 [7.68]           | 26,200 [7.68]           | 26,200 [7.68]           |
| Net Latent Capacity Btu [kW]                                  | 9,200 [2.7]             | 9,200 [2.7]             | 9,200 [2.7]             | 9,200 [2.7]             |
| Net System Power kW   | 3.1                     | 3.1                     | 3.1                     | 3.1                     |
| <b>Heating Performance (Package Gas/Electric)<sup>3</sup></b> |                         |                         |                         |                         |
| Heating Input Btu [kW]  | 80,000 [23.44]          | 120,000 [35.16]         | 80,000 [23.44]          | 120,000 [35.16]         |
| Heating Output Btu [kW]                                       | 64,800 [18.99]          | 97,200 [28.48]          | 64,800 [18.99]          | 97,200 [28.48]          |
| Temperature Rise Range °F [°C]                                | 30-60 [16.7/33.3]       | 50-80 [27.8/44.4]       | 30-60 [16.7/33.3]       | 50-80 [27.8/44.4]       |
| AFUE %  | 80                      | 80                      | 80                      | 80                      |
| Steady State Efficiency (%)                                   | 81                      | 81                      | 81                      | 81                      |
| No. Burners   | 4                       | 6                       | 4                       | 6                       |
| No. Stages  | 1                       | 1                       | 1                       | 1                       |
| Gas Connection Pipe Size in. [mm]                             | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              |
| <b>Compressor</b>   |                         |                         |                         |                         |
| No./Type  | 1/Scroll                | 1/Scroll                | 1/Scroll                | 1/Scroll                |
| <b>Outdoor Sound Rating (dB)<sup>4</sup></b>                  |                         |                         |                         |                         |
|   | 78                      | 78                      | 78                      | 78                      |
| <b>Outdoor Coil—Fin Type</b>                                  |                         |                         |                         |                         |
| Tube Type   | Louvered                | Louvered                | Louvered                | Louvered                |
| Tube Size in. [mm] OD   | Rifled                  | Rifled                  | Rifled                  | Rifled                  |
| Tube Size in. [mm] OD   | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             |
| Face Area sq. ft. [sq. m]                                     | 16.91 [1.57]            | 16.91 [1.57]            | 16.91 [1.57]            | 16.91 [1.57]            |
| Rows / FPI [FPcm]   | 1 / 22 [9]              | 1 / 22 [9]              | 1 / 22 [9]              | 1 / 22 [9]              |
| <b>Indoor Coil—Fin Type</b>                                   |                         |                         |                         |                         |
| Tube Type   | Corrugated              | Corrugated              | Corrugated              | Corrugated              |
| Tube Type   | Rifled                  | Rifled                  | Rifled                  | Rifled                  |
| Tube Size in. [mm]  | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             |
| Face Area sq. ft. [sq. m]                                     | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             |
| Rows / FPI [FPcm]   | 2 / 17 [7]              | 2 / 17 [7]              | 2 / 17 [7]              | 2 / 17 [7]              |
| Refrigerant Control   | TX Valves               | TX Valves               | TX Valves               | TX Valves               |
| Drain Connection No./Size in. [mm]                            | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          |
| <b>Outdoor Fan—Type</b>                                       |                         |                         |                         |                         |
| Propeller   | Propeller               | Propeller               | Propeller               | Propeller               |
| No. Used/Diameter in. [mm]                                    | 1/24 [609.6]            | 1/24 [609.6]            | 1/24 [609.6]            | 1/24 [609.6]            |
| Drive Type/No. Speeds   | Direct/1                | Direct/1                | Direct/1                | Direct/1                |
| CFM [L/s]   | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             |
| No. Motors/HP   | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             |
| Motor RPM   | 1075                    | 1075                    | 1075                    | 1075                    |
| <b>Indoor Fan—Type</b>  |                         |                         |                         |                         |
| FC Centrifugal  | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          |
| No. Used/Diameter in. [mm]                                    | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       |
| Drive Type/No. Speeds   | Direct/3                | Direct/3                | Belt/Variable           | Belt/Variable           |
| No. Motors  | 1                       | 1                       | 1                       | 1                       |
| Motor HP  | 1/2                     | 1/2                     | 1/2                     | 1/2                     |
| Motor RPM   | 1075                    | 1075                    | 1725                    | 1725                    |
| Motor Frame Size  | 48                      | 48                      | 48                      | 48                      |
| <b>Filter—Type</b>  |                         |                         |                         |                         |
| Disposable  | Disposable              | Disposable              | Disposable              | Disposable              |
| Furnished   | Yes                     | Yes                     | Yes                     | Yes                     |
| (No.) Size Recommended in. [mm]                               | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
|   | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| <b>Refrigerant Charge Oz. [g]</b>                             |                         |                         |                         |                         |
|   | 96 [2722]               | 96 [2722]               | 96 [2722]               | 96 [2722]               |
| <b>Weights</b>  |                         |                         |                         |                         |
| Net Weight lbs. [kg]  | 543 [246]               | 543 [246]               | 543 [246]               | 543 [246]               |
| Ship Weight lbs. [kg]   | 550 [249]               | 550 [249]               | 550 [249]               | 550 [249]               |

See Page 20 for Notes.

[ ] Designates Metric Conversions



## NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model TZCGE- Series   | 336DL080A               | 336DL120A               | 336DLB080A              | 336DLB120A              |
|---|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Cooling Performance<sup>1</sup></b>                        |                         |                         |                         | <b>CONTINUED</b> →      |
| Gross Cooling Capacity Btu [kW]                               | 36,800 [10.78]          | 36,800 [10.78]          | 36,800 [10.78]          | 36,800 [10.78]          |
| EER/SEER <sup>2</sup>   | 11.4/13                 | 11.4/13                 | 11.4/13                 | 11.4/13                 |
| Nominal CFM/ARI Rated CFM [L/s]                               | 1200/1200 [566/566]     | 1200/1200 [566/566]     | 1200/1200 [566/566]     | 1200/1200 [566/566]     |
| ARI Net Cooling Capacity Btu [kW]                             | 35,400 [10.37]          | 35,400 [10.37]          | 35,400 [10.37]          | 35,400 [10.37]          |
| Net Sensible Capacity Btu [kW]                                | 26,200 [7.68]           | 26,200 [7.68]           | 26,200 [7.68]           | 26,200 [7.68]           |
| Net Latent Capacity Btu [kW]                                  | 9,200 [2.7]             | 9,200 [2.7]             | 9,200 [2.7]             | 9,200 [2.7]             |
| Net System Power kW   | 3.1                     | 3.1                     | 3.1                     | 3.1                     |
| <b>Heating Performance (Package Gas/Electric)<sup>3</sup></b> |                         |                         |                         |                         |
| Heating Input Btu [kW]  | 80,000 [23.44]          | 120,000 [35.16]         | 80,000 [23.44]          | 120,000 [35.16]         |
| Heating Output Btu [kW]                                       | 64,800 [18.99]          | 97,200 [28.48]          | 64,800 [18.99]          | 97,200 [28.48]          |
| Temperature Rise Range °F [°C]                                | 30-60 [16.7/33.3]       | 50-80 [27.8/44.4]       | 30-60 [16.7/33.3]       | 50-80 [27.8/44.4]       |
| AFUE %  | 80                      | 80                      | 80                      | 80                      |
| Steady State Efficiency (%)                                   | 81                      | 81                      | 81                      | 81                      |
| No. Burners   | 4                       | 6                       | 4                       | 6                       |
| No. Stages  | 1                       | 1                       | 1                       | 1                       |
| Gas Connection Pipe Size in. [mm]                             | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              |
| <b>Compressor</b>   |                         |                         |                         |                         |
| No./Type  | 1/Scroll                | 1/Scroll                | 1/Scroll                | 1/Scroll                |
| <b>Outdoor Sound Rating (dB)<sup>4</sup></b>                  | 78                      | 78                      | 78                      | 78                      |
| <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]                                     | 16.91 [1.57]            | 16.91 [1.57]            | 16.91 [1.57]            | 16.91 [1.57]            |
| Rows / FPI [FPcm]   | 1 / 22 [9]              | 1 / 22 [9]              | 1 / 22 [9]              | 1 / 22 [9]              |
| <b>Indoor Coil—Fin Type</b>                                   | Corrugated              | Corrugated              | Corrugated              | Corrugated              |
| Tube Type   | Rifled                  | Rifled                  | Rifled                  | Rifled                  |
| Tube Size in. [mm]  | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             |
| Face Area sq. ft. [sq. m]                                     | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             |
| Rows / FPI [FPcm]   | 2 / 17 [7]              | 2 / 17 [7]              | 2 / 17 [7]              | 2 / 17 [7]              |
| Refrigerant Control   | TX Valves               | TX Valves               | TX Valves               | TX Valves               |
| Drain Connection No./Size in. [mm]                            | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          |
| <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]   | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             |
| No. Motors/HP   | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             |
| Motor RPM   | 1075                    | 1075                    | 1075                    | 1075                    |
| <b>Indoor Fan—Type</b>  | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          |
| No. Used/Diameter in. [mm]                                    | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       |
| Drive Type/No. Speeds   | Direct/3                | Direct/3                | Belt/Variable           | Belt/Variable           |
| No. Motors  | 1                       | 1                       | 1                       | 1                       |
| Motor HP  | 1/2                     | 1/2                     | 1/2                     | 1/2                     |
| Motor RPM   | 1075                    | 1075                    | 1725                    | 1725                    |
| Motor Frame Size  | 48                      | 48                      | 48                      | 48                      |
| <b>Filter—Type</b>  | Disposable              | Disposable              | Disposable              | Disposable              |
| Furnished   | Yes                     | Yes                     | Yes                     | Yes                     |
| (No.) Size Recommended in. [mm]                               | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
|   | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| <b>Refrigerant Charge Oz. [g]</b>                             | 96 [2722]               | 96 [2722]               | 96 [2722]               | 96 [2722]               |
| <b>Weights</b>  |                         |                         |                         |                         |
| Net Weight lbs. [kg]  | 543 [246]               | 543 [246]               | 543 [246]               | 543 [246]               |
| Ship Weight lbs. [kg]   | 550 [249]               | 550 [249]               | 550 [249]               | 550 [249]               |

See Page 20 for Notes.

[ ] Designates Metric Conversions

# GENERAL DATA—TZCGE-3 SERIES

## NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model TZCGE- Series   | 336JLD080A              | 336JLD080AX             | 336JLD120A              | 336JLD120AX             |
|---|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Cooling Performance<sup>1</sup></b>                        |                         |                         |                         |                         |
| Gross Cooling Capacity Btu [kW]                               | 36,800 [10.78]          | 36,800 [10.78]          | 36,800 [10.78]          | 36,800 [10.78]          |
| EER/SEER <sup>2</sup>   | 11.4/13                 | 11.4/13                 | 11.4/13                 | 11.4/13                 |
| Nominal CFM/ARI Rated CFM [L/s]                               | 1200/1200 [566/566]     | 1200/1200 [566/566]     | 1200/1200 [566/566]     | 1200/1200 [566/566]     |
| ARI Net Cooling Capacity Btu [kW]                             | 35,400 [10.37]          | 35,400 [10.37]          | 35,400 [10.37]          | 35,400 [10.37]          |
| Net Sensible Capacity Btu [kW]                                | 26,200 [7.68]           | 26,200 [7.68]           | 26,200 [7.68]           | 26,200 [7.68]           |
| Net Latent Capacity Btu [kW]                                  | 9,200 [2.7]             | 9,200 [2.7]             | 9,200 [2.7]             | 9,200 [2.7]             |
| Net System Power kW   | 3.1                     | 3.1                     | 3.1                     | 3.1                     |
| <b>Heating Performance (Package Gas/Electric)<sup>3</sup></b> |                         |                         |                         |                         |
| Heating Input Btu [kW]  | 80,000 [23.44]          | 80,000 [23.44]          | 120,000 [35.16]         | 120,000 [35.16]         |
| Heating Output Btu [kW]                                       | 62,500 [18.31]          | 62,500 [18.31]          | 94,500 [27.69]          | 94,500 [27.69]          |
| Temperature Rise Range °F [°C]                                | 30-60 [16.7/33.3]       | 30-60 [16.7/33.3]       | 50-80 [27.8/44.4]       | 50-80 [27.8/44.4]       |
| AFUE %  | 80                      | 80                      | 80                      | 80                      |
| Steady State Efficiency (%)                                   | 81                      | 81                      | 81                      | 81                      |
| No. Burners   | 4                       | 4                       | 6                       | 6                       |
| No. Stages  | 1                       | 1                       | 1                       | 1                       |
| Gas Connection Pipe Size in. [mm]                             | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              |
| <b>Compressor</b>   |                         |                         |                         |                         |
| No./Type  | 1/Scroll                | 1/Scroll                | 1/Scroll                | 1/Scroll                |
| <b>Outdoor Sound Rating (dB)<sup>4</sup></b>                  |                         |                         |                         |                         |
|   | 78                      | 78                      | 78                      | 78                      |
| <b>Outdoor Coil—Fin Type</b>                                  |                         |                         |                         |                         |
| Tube Type   | Louvered                | Louvered                | Louvered                | Louvered                |
| Tube Size in. [mm] OD   | Rifled                  | Rifled                  | Rifled                  | Rifled                  |
| Tube Size in. [mm] OD   | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             |
| Face Area sq. ft. [sq. m]                                     | 16.91 [1.57]            | 16.91 [1.57]            | 16.91 [1.57]            | 16.91 [1.57]            |
| Rows / FPI [FPcm]   | 1 / 22 [9]              | 1 / 22 [9]              | 1 / 22 [9]              | 1 / 22 [9]              |
| <b>Indoor Coil—Fin Type</b>                                   |                         |                         |                         |                         |
| Tube Type   | Corrugated              | Corrugated              | Corrugated              | Corrugated              |
| Tube Type   | Rifled                  | Rifled                  | Rifled                  | Rifled                  |
| Tube Size in. [mm]  | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             |
| Face Area sq. ft. [sq. m]                                     | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             |
| Rows / FPI [FPcm]   | 2 / 17 [7]              | 2 / 17 [7]              | 2 / 17 [7]              | 2 / 17 [7]              |
| Refrigerant Control   | TX Valves               | TX Valves               | TX Valves               | TX Valves               |
| Drain Connection No./Size in. [mm]                            | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          |
| <b>Outdoor Fan—Type</b>                                       |                         |                         |                         |                         |
| Propeller   | Propeller               | Propeller               | Propeller               | Propeller               |
| No. Used/Diameter in. [mm]                                    | 1/24 [609.6]            | 1/24 [609.6]            | 1/24 [609.6]            | 1/24 [609.6]            |
| Drive Type/No. Speeds   | Direct/1                | Direct/1                | Direct/1                | Direct/1                |
| CFM [L/s]   | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             |
| No. Motors/HP   | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             |
| Motor RPM   | 1075                    | 1075                    | 1075                    | 1075                    |
| <b>Indoor Fan—Type</b>  |                         |                         |                         |                         |
| FC Centrifugal  | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          |
| No. Used/Diameter in. [mm]                                    | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       |
| Drive Type/No. Speeds   | Direct/3                | Direct/3                | Direct/3                | Direct/3                |
| No. Motors  | 1                       | 1                       | 1                       | 1                       |
| Motor HP  | 1/2                     | 1/2                     | 1/2                     | 1/2                     |
| Motor RPM   | 1075                    | 1075                    | 1075                    | 1075                    |
| Motor Frame Size  | 48                      | 48                      | 48                      | 48                      |
| <b>Filter—Type</b>  |                         |                         |                         |                         |
| Disposable  | Disposable              | Disposable              | Disposable              | Disposable              |
| Furnished   | Yes                     | Yes                     | Yes                     | Yes                     |
| (No.) Size Recommended in. [mm]                               | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
|   | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| <b>Refrigerant Charge Oz. [g]</b>                             |                         |                         |                         |                         |
|   | 96 [2722]               | 96 [2722]               | 96 [2722]               | 96 [2722]               |
| <b>Weights</b>  |                         |                         |                         |                         |
| Net Weight lbs. [kg]  | 543 [246]               | 543 [246]               | 543 [246]               | 543 [246]               |
| Ship Weight lbs. [kg]   | 550 [249]               | 550 [249]               | 550 [249]               | 550 [249]               |

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[ ] Designates Metric Conversions

## NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model TZCGE- Series   | 342CLD080A              | 342CLD120A              | 342DLD080A              | 342DLD120A              |
|---|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Cooling Performance<sup>1</sup></b>                        |                         |                         |                         | <b>CONTINUED</b> →      |
| Gross Cooling Capacity Btu [kW]                               | 42,500 [12.45]          | 42,500 [12.45]          | 42,500 [12.45]          | 42,500 [12.45]          |
| EER/SEER <sup>2</sup>   | 11.2/13                 | 11.2/13                 | 11.2/13                 | 11.2/13                 |
| Nominal CFM/ARI Rated CFM [L/s]                               | 1400/1450 [661/684]     | 1400/1450 [661/684]     | 1400/1450 [661/684]     | 1400/1450 [661/684]     |
| ARI Net Cooling Capacity Btu [kW]                             | 40,500 [11.87]          | 40,500 [11.87]          | 40,500 [11.87]          | 40,500 [11.87]          |
| Net Sensible Capacity Btu [kW]                                | 30,600 [8.97]           | 30,600 [8.97]           | 30,600 [8.97]           | 30,600 [8.97]           |
| Net Latent Capacity Btu [kW]                                  | 9,900 [2.9]             | 9,900 [2.9]             | 9,900 [2.9]             | 9,900 [2.9]             |
| Net System Power kW   | 3.62                    | 3.62                    | 3.62                    | 3.62                    |
| <b>Heating Performance (Package Gas/Electric)<sup>3</sup></b> |                         |                         |                         |                         |
| Heating Input Btu [kW]  | 80,000 [23.44]          | 120,000 [35.16]         | 80,000 [23.44]          | 120,000 [35.16]         |
| Heating Output Btu [kW]                                       | 64,800 [18.99]          | 97,200 [28.48]          | 64,800 [18.99]          | 97,200 [28.48]          |
| Temperature Rise Range °F [°C]                                | 30-60 [16.7/33.3]       | 50-80 [27.8/44.4]       | 30-60 [16.7/33.3]       | 50-80 [27.8/44.4]       |
| AFUE %  | 80                      | 80                      | 80                      | 80                      |
| Steady State Efficiency (%)                                   | 81                      | 81                      | 81                      | 81                      |
| No. Burners   | 4                       | 6                       | 4                       | 6                       |
| No. Stages  | 1                       | 1                       | 1                       | 1                       |
| Gas Connection Pipe Size in. [mm]                             | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              |
| <b>Compressor</b>   |                         |                         |                         |                         |
| No./Type  | 1/Scroll                | 1/Scroll                | 1/Scroll                | 1/Scroll                |
| <b>Outdoor Sound Rating (dB)<sup>4</sup></b>                  | 78                      | 78                      | 78                      | 78                      |
| <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]                                     | 16.91 [1.57]            | 16.91 [1.57]            | 16.91 [1.57]            | 16.91 [1.57]            |
| Rows / FPI [FPcm]   | 1.53 / 22 [9]           | 1.53 / 22 [9]           | 1.53 / 22 [9]           | 1.53 / 22 [9]           |
| <b>Indoor Coil—Fin Type</b>                                   | Corrugated              | Corrugated              | Corrugated              | Corrugated              |
| Tube Type   | Rifled                  | Rifled                  | Rifled                  | Rifled                  |
| Tube Size in. [mm]  | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             |
| Face Area sq. ft. [sq. m]                                     | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             |
| Rows / FPI [FPcm]   | 3 / 13 [5]              | 3 / 13 [5]              | 3 / 13 [5]              | 3 / 13 [5]              |
| Refrigerant Control   | TX Valves               | TX Valves               | TX Valves               | TX Valves               |
| Drain Connection No./Size in. [mm]                            | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          |
| <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]   | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             |
| No. Motors/HP   | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             |
| Motor RPM   | 1075                    | 1075                    | 1075                    | 1075                    |
| <b>Indoor Fan—Type</b>  | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          |
| No. Used/Diameter in. [mm]                                    | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       |
| Drive Type/No. Speeds   | Direct/3                | Direct/3                | Direct/3                | Direct/3                |
| No. Motors  | 1                       | 1                       | 1                       | 1                       |
| Motor HP  | 1/2                     | 1/2                     | 1/2                     | 1/2                     |
| Motor RPM   | 1075                    | 1075                    | 1075                    | 1075                    |
| Motor Frame Size  | 48                      | 48                      | 48                      | 48                      |
| <b>Filter—Type</b>  | Disposable              | Disposable              | Disposable              | Disposable              |
| Furnished   | Yes                     | Yes                     | Yes                     | Yes                     |
| (No.) Size Recommended in. [mm]                               | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
|   | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| <b>Refrigerant Charge Oz. [g]</b>                             | 125 [3544]              | 125 [3544]              | 125 [3544]              | 125 [3544]              |
| <b>Weights</b>  |                         |                         |                         |                         |
| Net Weight lbs. [kg]  | 570 [259]               | 579 [263]               | 570 [259]               | 579 [263]               |
| Ship Weight lbs. [kg]   | 577 [262]               | 586 [266]               | 577 [262]               | 586 [266]               |

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[ ] Designates Metric Conversions

# GENERAL DATA—TZCGE-3 SERIES

## NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model TZCGE- Series   | 342JLD080A              | 342JLD120A              | 348CLD080A              | 348CLD100A              |
|---|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Cooling Performance<sup>1</sup></b>                        |                         |                         |                         | <b>CONTINUED</b> →      |
| Gross Cooling Capacity Btu [kW]                               | 42,500 [12.45]          | 42,500 [12.45]          | 50,000 [14.65]          | 50,000 [14.65]          |
| EER/SEER <sup>2</sup>   | 11.2/13                 | 11.2/13                 | 11.45/13                | 11.45/13                |
| Nominal CFM/ARI Rated CFM [L/s]                               | 1400/1450 [661/684]     | 1400/1450 [661/684]     | 1600/1600 [755/755]     | 1600/1600 [755/755]     |
| ARI Net Cooling Capacity Btu [kW]                             | 40,500 [11.87]          | 40,500 [11.87]          | 48,000 [14.06]          | 48,000 [14.06]          |
| Net Sensible Capacity Btu [kW]                                | 30,600 [8.97]           | 30,600 [8.97]           | 35,600 [10.43]          | 35,600 [10.43]          |
| Net Latent Capacity Btu [kW]                                  | 9,900 [2.9]             | 9,900 [2.9]             | 12,400 [3.63]           | 12,400 [3.63]           |
| Net System Power kW   | 3.62                    | 3.62                    | 4.19                    | 4.19                    |
| <b>Heating Performance (Package Gas/Electric)<sup>3</sup></b> |                         |                         |                         |                         |
| Heating Input Btu [kW]  | 80,000 [23.44]          | 120,000 [35.16]         | 80,000 [23.44]          | 100,000 [29.3]          |
| Heating Output Btu [kW]                                       | 62,500 [18.31]          | 94,500 [27.69]          | 64,800 [18.99]          | 81,000 [23.73]          |
| Temperature Rise Range °F [°C]                                | 30-60 [16.7/33.3]       | 50-80 [27.8/44.4]       | 30-60 [16.7/33.3]       | 40-70 [22.2/38.9]       |
| AFUE %  | 80                      | 80                      | 80                      | 80                      |
| Steady State Efficiency (%)                                   | 81                      | 81                      | 81                      | 81                      |
| No. Burners   | 4                       | 6                       | 4                       | 5                       |
| No. Stages  | 1                       | 1                       | 1                       | 1                       |
| Gas Connection Pipe Size in. [mm]                             | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              |
| <b>Compressor</b>   |                         |                         |                         |                         |
| No./Type  | 1/Scroll                | 1/Scroll                | 1/Scroll                | 1/Scroll                |
| <b>Outdoor Sound Rating (dB)<sup>4</sup></b>                  | 78                      | 78                      | 78                      | 78                      |
| <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]                                     | 16.91 [1.57]            | 16.91 [1.57]            | 16.56 [1.54]            | 16.56 [1.54]            |
| Rows / FPI [FPcm]   | 1.53 / 22 [9]           | 1.53 / 22 [9]           | 2 / 22 [9]              | 2 / 22 [9]              |
| <b>Indoor Coil—Fin Type</b>                                   | Corrugated              | Corrugated              | Corrugated              | Corrugated              |
| Tube Type   | Rifled                  | Rifled                  | Rifled                  | Rifled                  |
| Tube Size in. [mm]  | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             |
| Face Area sq. ft. [sq. m]                                     | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             |
| Rows / FPI [FPcm]   | 3 / 13 [5]              | 3 / 13 [5]              | 3 / 15 [6]              | 3 / 15 [6]              |
| Refrigerant Control   | TX Valves               | TX Valves               | TX Valves               | TX Valves               |
| Drain Connection No./Size in. [mm]                            | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          |
| <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]   | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             |
| No. Motors/HP   | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             |
| Motor RPM   | 1075                    | 1075                    | 1075                    | 1075                    |
| <b>Indoor Fan—Type</b>  | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          |
| No. Used/Diameter in. [mm]                                    | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       |
| Drive Type/No. Speeds   | Direct/3                | Direct/3                | Direct/3                | Direct/3                |
| No. Motors  | 1                       | 1                       | 1                       | 1                       |
| Motor HP  | 1/2                     | 1/2                     | 1/2                     | 1/2                     |
| Motor RPM   | 1075                    | 1725                    | 1075                    | 1075                    |
| Motor Frame Size  | 48                      | 48                      | 48                      | 48                      |
| <b>Filter—Type</b>  | Disposable              | Disposable              | Disposable              | Disposable              |
| Furnished   | Yes                     | Yes                     | Yes                     | Yes                     |
| (No.) Size Recommended in. [mm]                               | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
|   | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| <b>Refrigerant Charge Oz. [g]</b>                             | 125 [3544]              | 125 [3544]              | 165 [4678]              | 165 [4678]              |
| <b>Weights</b>  |                         |                         |                         |                         |
| Net Weight lbs. [kg]  | 570 [259]               | 579 [263]               | 580 [263]               | 580 [263]               |
| Ship Weight lbs. [kg]   | 577 [262]               | 586 [266]               | 587 [266]               | 587 [266]               |

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[ ] Designates Metric Conversions

## NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model TZCGE- Series   | 348CLD135A              | 348CLB080A              | 348CLB100A              | 348CLB135A              |
|---|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Cooling Performance<sup>1</sup></b>                        |                         |                         |                         | <b>CONTINUED</b> →      |
| Gross Cooling Capacity Btu [kW]                               | 50,000 [14.65]          | 50,000 [14.65]          | 50,000 [14.65]          | 50,000 [14.65]          |
| EER/SEER <sup>2</sup>   | 11.45/13                | 11.45/13                | 11.45/13                | 11.45/13                |
| Nominal CFM/ARI Rated CFM [L/s]                               | 1600/1600 [755/755]     | 1600/1600 [755/755]     | 1600/1600 [755/755]     | 1600/1600 [755/755]     |
| ARI Net Cooling Capacity Btu [kW]                             | 48,000 [14.06]          | 48,000 [14.06]          | 48,000 [14.06]          | 48,000 [14.06]          |
| Net Sensible Capacity Btu [kW]                                | 35,600 [10.43]          | 35,600 [10.43]          | 35,600 [10.43]          | 35,600 [10.43]          |
| Net Latent Capacity Btu [kW]                                  | 12,400 [3.63]           | 12,400 [3.63]           | 12,400 [3.63]           | 12,400 [3.63]           |
| Net System Power kW   | 4.19                    | 4.19                    | 4.19                    | 4.19                    |
| <b>Heating Performance (Package Gas/Electric)<sup>3</sup></b> |                         |                         |                         |                         |
| Heating Input Btu [kW]  | 135,000 [39.55]         | 80,000 [23.44]          | 100,000 [29.3]          | 135,000 [39.55]         |
| Heating Output Btu [kW]                                       | 109,400 [32.05]         | 64,800 [18.99]          | 81,000 [23.73]          | 109,400 [32.05]         |
| Temperature Rise Range °F [°C]                                | 50-80 [27.8/44.4]       | 30-60 [16.7/33.3]       | 30-60 [16.7/33.3]       | 50-80 [27.8/44.4]       |
| AFUE %  | 80                      | 80                      | 80                      | 80                      |
| Steady State Efficiency (%)                                   | 81                      | 81                      | 81                      | 81                      |
| No. Burners   | 6                       | 4                       | 5                       | 6                       |
| No. Stages  | 1                       | 1                       | 1                       | 1                       |
| Gas Connection Pipe Size in. [mm]                             | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              |
| <b>Compressor</b>   |                         |                         |                         |                         |
| No./Type  | 1/Scroll                | 1/Scroll                | 1/Scroll                | 1/Scroll                |
| <b>Outdoor Sound Rating (dB)<sup>4</sup></b>                  | 78                      | 78                      | 78                      | 78                      |
| <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]                                     | 16.56 [1.54]            | 16.56 [1.54]            | 16.56 [1.54]            | 16.56 [1.54]            |
| Rows / FPI [FPcm]   | 2 / 22 [9]              | 2 / 22 [9]              | 2 / 22 [9]              | 2 / 22 [9]              |
| <b>Indoor Coil—Fin Type</b>                                   | Corrugated              | Corrugated              | Corrugated              | Corrugated              |
| Tube Type   | Rifled                  | Rifled                  | Rifled                  | Rifled                  |
| Tube Size in. [mm]  | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             |
| Face Area sq. ft. [sq. m]                                     | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             |
| Rows / FPI [FPcm]   | 3 / 15 [6]              | 3 / 15 [6]              | 3 / 15 [6]              | 3 / 15 [6]              |
| Refrigerant Control   | TX Valves               | TX Valves               | TX Valves               | TX Valves               |
| Drain Connection No./Size in. [mm]                            | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          |
| <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]   | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             |
| No. Motors/HP   | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             |
| Motor RPM   | 1075                    | 1075                    | 1075                    | 1075                    |
| <b>Indoor Fan—Type</b>  | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          |
| No. Used/Diameter in. [mm]                                    | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       |
| Drive Type/No. Speeds   | Direct/3                | Belt/Variable           | Belt/Variable           | Belt/Variable           |
| No. Motors  | 1                       | 1                       | 1                       | 1                       |
| Motor HP  | 1/2                     | 3/4                     | 3/4                     | 3/4                     |
| Motor RPM   | 1075                    | 1725                    | 1725                    | 1725                    |
| Motor Frame Size  | 48                      | 56                      | 56                      | 56                      |
| <b>Filter—Type</b>  | Disposable              | Disposable              | Disposable              | Disposable              |
| Furnished   | Yes                     | Yes                     | Yes                     | Yes                     |
| (No.) Size Recommended in. [mm]                               | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
|   | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| <b>Refrigerant Charge Oz. [g]</b>                             | 165 [4678]              | 165 [4678]              | 165 [4678]              | 165 [4678]              |
| <b>Weights</b>  |                         |                         |                         |                         |
| Net Weight lbs. [kg]  | 585 [265]               | 580 [263]               | 580 [263]               | 580 [263]               |
| Ship Weight lbs. [kg]   | 592 [269]               | 587 [266]               | 587 [266]               | 587 [266]               |

See Page 20 for Notes.

[ ] Designates Metric Conversions

# GENERAL DATA—TZCGE-3 SERIES

## NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model TZCGE- Series   | 348DLD080A              | 348DLD100A              | 348DLD135A              | 348DLB080A              |
|---|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Cooling Performance<sup>1</sup></b>                        |                         |                         |                         |                         |
| Gross Cooling Capacity Btu [kW]                               | 50,000 [14.65]          | 50,000 [14.65]          | 50,000 [14.65]          | 50,000 [14.65]          |
| EER/SEER <sup>2</sup>   | 11.45/13                | 11.45/13                | 11.45/13                | 11.45/13                |
| Nominal CFM/ARI Rated CFM [L/s]                               | 1600/1600 [755/755]     | 1600/1600 [755/755]     | 1600/1600 [755/755]     | 1600/1600 [755/755]     |
| ARI Net Cooling Capacity Btu [kW]                             | 48,000 [14.06]          | 48,000 [14.06]          | 48,000 [14.06]          | 48,000 [14.06]          |
| Net Sensible Capacity Btu [kW]                                | 35,600 [10.43]          | 35,600 [10.43]          | 35,600 [10.43]          | 35,600 [10.43]          |
| Net Latent Capacity Btu [kW]                                  | 12,400 [3.63]           | 12,400 [3.63]           | 12,400 [3.63]           | 12,400 [3.63]           |
| Net System Power kW   | 4.19                    | 4.19                    | 4.19                    | 4.19                    |
| <b>Heating Performance (Package Gas/Electric)<sup>3</sup></b> |                         |                         |                         |                         |
| Heating Input Btu [kW]  | 80,000 [23.44]          | 100,000 [29.3]          | 135,000 [39.55]         | 80,000 [23.44]          |
| Heating Output Btu [kW]                                       | 64,800 [18.99]          | 81,000 [23.73]          | 109,400 [32.05]         | 64,800 [18.99]          |
| Temperature Rise Range °F [°C]                                | 30-60 [16.7/33.3]       | 30-60 [16.7/33.3]       | 50-80 [27.8/44.4]       | 30-60 [16.7/33.3]       |
| AFUE %  | 80                      | 80                      | 80                      | 80                      |
| Steady State Efficiency (%)                                   | 81                      | 81                      | 81                      | 81                      |
| No. Burners   | 4                       | 5                       | 6                       | 4                       |
| No. Stages  | 1                       | 1                       | 1                       | 1                       |
| Gas Connection Pipe Size in. [mm]                             | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              |
| <b>Compressor</b>   |                         |                         |                         |                         |
| No./Type  | 1/Scroll                | 1/Scroll                | 1/Scroll                | 1/Scroll                |
| <b>Outdoor Sound Rating (dB)<sup>4</sup></b>                  |                         |                         |                         |                         |
|   | 78                      | 78                      | 78                      | 78                      |
| <b>Outdoor Coil—Fin Type</b>                                  |                         |                         |                         |                         |
| Tube Type   | Louvered                | Louvered                | Louvered                | Louvered                |
| Tube Size in. [mm] OD   | Rifled                  | Rifled                  | Rifled                  | Rifled                  |
| Tube Size in. [mm] OD   | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             |
| Face Area sq. ft. [sq. m]                                     | 16.56 [1.54]            | 16.56 [1.54]            | 16.56 [1.54]            | 16.56 [1.54]            |
| Rows / FPI [FPcm]   | 2 / 22 [9]              | 2 / 22 [9]              | 2 / 22 [9]              | 2 / 22 [9]              |
| <b>Indoor Coil—Fin Type</b>                                   |                         |                         |                         |                         |
| Tube Type   | Corrugated              | Corrugated              | Corrugated              | Corrugated              |
| Tube Type   | Rifled                  | Rifled                  | Rifled                  | Rifled                  |
| Tube Size in. [mm]  | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             |
| Face Area sq. ft. [sq. m]                                     | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             |
| Rows / FPI [FPcm]   | 3 / 15 [6]              | 3 / 15 [6]              | 3 / 15 [6]              | 3 / 15 [6]              |
| Refrigerant Control   | TX Valves               | TX Valves               | TX Valves               | TX Valves               |
| Drain Connection No./Size in. [mm]                            | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          |
| <b>Outdoor Fan—Type</b>                                       |                         |                         |                         |                         |
| Propeller   | Propeller               | Propeller               | Propeller               | Propeller               |
| No. Used/Diameter in. [mm]                                    | 1/24 [609.6]            | 1/24 [609.6]            | 1/24 [609.6]            | 1/24 [609.6]            |
| Drive Type/No. Speeds   | Direct/1                | Direct/1                | Direct/1                | Direct/1                |
| CFM [L/s]   | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             |
| No. Motors/HP   | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             |
| Motor RPM   | 1075                    | 1075                    | 1075                    | 1075                    |
| <b>Indoor Fan—Type</b>  |                         |                         |                         |                         |
| FC Centrifugal  | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          |
| No. Used/Diameter in. [mm]                                    | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       |
| Drive Type/No. Speeds   | Direct/3                | Direct/3                | Direct/3                | Belt/Variable           |
| No. Motors  | 1                       | 1                       | 1                       | 1                       |
| Motor HP  | 1/2                     | 1/2                     | 1/2                     | 3/4                     |
| Motor RPM   | 1075                    | 1075                    | 1075                    | 1725                    |
| Motor Frame Size  | 48                      | 48                      | 48                      | 56                      |
| <b>Filter—Type</b>  |                         |                         |                         |                         |
| Disposable  | Disposable              | Disposable              | Disposable              | Disposable              |
| Furnished   | Yes                     | Yes                     | Yes                     | Yes                     |
| (No.) Size Recommended in. [mm]                               | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
|   | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| <b>Refrigerant Charge Oz. [g]</b>                             |                         |                         |                         |                         |
|   | 165 [4678]              | 165 [4678]              | 165 [4678]              | 165 [4678]              |
| <b>Weights</b>  |                         |                         |                         |                         |
| Net Weight lbs. [kg]  | 580 [263]               | 580 [263]               | 585 [265]               | 580 [263]               |
| Ship Weight lbs. [kg]   | 587 [266]               | 587 [266]               | 592 [269]               | 587 [266]               |

See Page 20 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model TZCGE- Series   | 348DLB100A              | 348DLB135A              | 348JLD080A              | 348JLD100A              |
|---|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Cooling Performance<sup>1</sup></b>                        |                         |                         |                         | <b>CONTINUED</b> →      |
| Gross Cooling Capacity Btu [kW]                               | 50,000 [14.65]          | 50,000 [14.65]          | 50,000 [14.65]          | 50,000 [14.65]          |
| EER/SEER <sup>2</sup>   | 11.45/13                | 11.45/13                | 11.45/13                | 11.45/13                |
| Nominal CFM/ARI Rated CFM [L/s]                               | 1600/1600 [755/755]     | 1600/1600 [755/755]     | 1600/1600 [755/755]     | 1600/1600 [755/755]     |
| ARI Net Cooling Capacity Btu [kW]                             | 48,000 [14.06]          | 48,000 [14.06]          | 48,000 [14.06]          | 48,000 [14.06]          |
| Net Sensible Capacity Btu [kW]                                | 35,600 [10.43]          | 35,600 [10.43]          | 35,600 [10.43]          | 35,600 [10.43]          |
| Net Latent Capacity Btu [kW]                                  | 12,400 [3.63]           | 12,400 [3.63]           | 12,400 [3.63]           | 12,400 [3.63]           |
| Net System Power kW   | 4.19                    | 4.19                    | 4.19                    | 4.19                    |
| <b>Heating Performance (Package Gas/Electric)<sup>3</sup></b> |                         |                         |                         |                         |
| Heating Input Btu [kW]  | 100,000 [29.3]          | 135,000 [39.55]         | 80,000 [23.44]          | 100,000 [29.3]          |
| Heating Output Btu [kW]                                       | 81,000 [23.73]          | 109,400 [32.05]         | 62,500 [18.31]          | 78,500 [23]             |
| Temperature Rise Range °F [°C]                                | 30-60 [16.7/33.3]       | 50-80 [27.8/44.4]       | 30-60 [16.7/33.3]       | 40-70 [22.2/38.9]       |
| AFUE %  | 80                      | 80                      | 80                      | 80                      |
| Steady State Efficiency (%)                                   | 81                      | 81                      | 81                      | 81                      |
| No. Burners   | 5                       | 6                       | 4                       | 5                       |
| No. Stages  | 1                       | 1                       | 1                       | 1                       |
| Gas Connection Pipe Size in. [mm]                             | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              |
| <b>Compressor</b>   |                         |                         |                         |                         |
| No./Type  | 1/Scroll                | 1/Scroll                | 1/Scroll                | 1/Scroll                |
| <b>Outdoor Sound Rating (dB)<sup>4</sup></b>                  | 78                      | 78                      | 78                      | 78                      |
| <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]                                     | 16.56 [1.54]            | 16.56 [1.54]            | 16.56 [1.54]            | 16.56 [1.54]            |
| Rows / FPI [FPcm]   | 2 / 22 [9]              | 2 / 22 [9]              | 2 / 22 [9]              | 2 / 22 [9]              |
| <b>Indoor Coil—Fin Type</b>                                   | Corrugated              | Corrugated              | Corrugated              | Corrugated              |
| Tube Type   | Rifled                  | Rifled                  | Rifled                  | Rifled                  |
| Tube Size in. [mm]  | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             |
| Face Area sq. ft. [sq. m]                                     | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             |
| Rows / FPI [FPcm]   | 3 / 15 [6]              | 3 / 15 [6]              | 3 / 15 [6]              | 3 / 15 [6]              |
| Refrigerant Control   | TX Valves               | TX Valves               | TX Valves               | TX Valves               |
| Drain Connection No./Size in. [mm]                            | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          |
| <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]   | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             |
| No. Motors/HP   | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             |
| Motor RPM   | 1075                    | 1075                    | 1075                    | 1075                    |
| <b>Indoor Fan—Type</b>  | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          |
| No. Used/Diameter in. [mm]                                    | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       |
| Drive Type/No. Speeds   | Belt/Variable           | Belt/Variable           | Direct/3                | Direct/3                |
| No. Motors  | 1                       | 1                       | 1                       | 1                       |
| Motor HP  | 3/4                     | 3/4                     | 1/2                     | 1/2                     |
| Motor RPM   | 1725                    | 1725                    | 1075                    | 1075                    |
| Motor Frame Size  | 56                      | 56                      | 48                      | 48                      |
| <b>Filter—Type</b>  | Disposable              | Disposable              | Disposable              | Disposable              |
| Furnished   | Yes                     | Yes                     | Yes                     | Yes                     |
| (No.) Size Recommended in. [mm]                               | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
|   | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| <b>Refrigerant Charge Oz. [g]</b>                             | 165 [4678]              | 165 [4678]              | 165 [4678]              | 165 [4678]              |
| <b>Weights</b>  |                         |                         |                         |                         |
| Net Weight lbs. [kg]  | 580 [263]               | 580 [263]               | 580 [263]               | 580 [263]               |
| Ship Weight lbs. [kg]   | 587 [266]               | 587 [266]               | 587 [266]               | 587 [266]               |

See Page 20 for Notes.

[ ] Designates Metric Conversions

# GENERAL DATA—TZCGE-3 SERIES

## NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model TZCGE- Series   | 348JLD100AX             | 348JLD135A              | 348JLD135AX             | 360CLD100A              |
|---|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Cooling Performance<sup>1</sup></b>                        |                         |                         |                         | <b>CONTINUED</b> →      |
| Gross Cooling Capacity Btu [kW]                               | 50,000 [14.65]          | 50,000 [14.65]          | 50,000 [14.65]          | 61,000 [17.87]          |
| EER/SEER <sup>2</sup>   | 11.45/13                | 11.45/13                | 11.45/13                | 11.1/13                 |
| Nominal CFM/ARI Rated CFM [L/s]                               | 1600/1600 [755/755]     | 1600/1600 [755/755]     | 1600/1600 [755/755]     | 2000/1900 [944/897]     |
| ARI Net Cooling Capacity Btu [kW]                             | 48,000 [14.06]          | 48,000 [14.06]          | 48,000 [14.06]          | 59,000 [17.29]          |
| Net Sensible Capacity Btu [kW]                                | 35,600 [10.43]          | 35,600 [10.43]          | 35,600 [10.43]          | 42,000 [12.31]          |
| Net Latent Capacity Btu [kW]                                  | 12,400 [3.63]           | 12,400 [3.63]           | 12,400 [3.63]           | 17,000 [4.98]           |
| Net System Power kW   | 4.19                    | 4.19                    | 4.19                    | 5.32                    |
| <b>Heating Performance (Package Gas/Electric)<sup>3</sup></b> |                         |                         |                         |                         |
| Heating Input Btu [kW]  | 100,000 [29.3]          | 135,000 [39.55]         | 135,000 [39.55]         | 100,000 [29.3]          |
| Heating Output Btu [kW]                                       | 78,500 [23]             | 106,500 [31.2]          | 106,500 [31.2]          | 81,000 [23.73]          |
| Temperature Rise Range °F [°C]                                | 40-70 [22.2/38.9]       | 50-80 [27.8/44.4]       | 50-80 [27.8/44.4]       | 25-55 [13.9/30.6]       |
| AFUE %  | 80                      | 80                      | 80                      | 80                      |
| Steady State Efficiency (%)                                   | 81                      | 81                      | 81                      | 81                      |
| No. Burners   | 5                       | 6                       | 6                       | 5                       |
| No. Stages  | 1                       | 1                       | 1                       | 1                       |
| Gas Connection Pipe Size in. [mm]                             | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              |
| <b>Compressor</b>   |                         |                         |                         |                         |
| No./Type  | 1/Scroll                | 1/Scroll                | 1/Scroll                | 1/Scroll                |
| <b>Outdoor Sound Rating (dB)<sup>4</sup></b>                  |                         |                         |                         |                         |
|   | 78                      | 78                      | 78                      | 83                      |
| <b>Outdoor Coil—Fin Type</b>                                  |                         |                         |                         |                         |
| Tube Type   | Louvered                | Louvered                | Louvered                | Louvered                |
| Tube Size in. [mm] OD   | Rifled                  | Rifled                  | Rifled                  | Rifled                  |
| Tube Size in. [mm] OD   | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             |
| Face Area sq. ft. [sq. m]                                     | 16.56 [1.54]            | 16.56 [1.54]            | 16.56 [1.54]            | 16.56 [1.54]            |
| Rows / FPI [FPcm]   | 2 / 22 [9]              | 2 / 22 [9]              | 2 / 22 [9]              | 2 / 22 [9]              |
| <b>Indoor Coil—Fin Type</b>                                   |                         |                         |                         |                         |
| Tube Type   | Corrugated              | Corrugated              | Corrugated              | Corrugated              |
| Tube Type   | Rifled                  | Rifled                  | Rifled                  | Rifled                  |
| Tube Size in. [mm]  | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             |
| Face Area sq. ft. [sq. m]                                     | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             |
| Rows / FPI [FPcm]   | 3 / 15 [6]              | 3 / 15 [6]              | 3 / 15 [6]              | 3 / 15 [6]              |
| Refrigerant Control   | TX Valves               | TX Valves               | TX Valves               | TX Valves               |
| Drain Connection No./Size in. [mm]                            | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          |
| <b>Outdoor Fan—Type</b>                                       |                         |                         |                         |                         |
| Propeller   | Propeller               | Propeller               | Propeller               | Propeller               |
| No. Used/Diameter in. [mm]                                    | 1/24 [609.6]            | 1/24 [609.6]            | 1/24 [609.6]            | 1/24 [609.6]            |
| Drive Type/No. Speeds   | Direct/1                | Direct/1                | Direct/1                | Direct/1                |
| CFM [L/s]   | 3680 [1737]             | 3680 [1737]             | 3680 [1737]             | 3930 [1855]             |
| No. Motors/HP   | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             |
| Motor RPM   | 1075                    | 1075                    | 1075                    | 1075                    |
| <b>Indoor Fan—Type</b>  |                         |                         |                         |                         |
| FC Centrifugal  | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          |
| No. Used/Diameter in. [mm]                                    | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       |
| Drive Type/No. Speeds   | Direct/3                | Direct/3                | Direct/3                | Direct/3                |
| No. Motors  | 1                       | 1                       | 1                       | 1                       |
| Motor HP  | 1/2                     | 1/2                     | 1/2                     | 1                       |
| Motor RPM   | 1075                    | 1075                    | 1075                    | 1075                    |
| Motor Frame Size  | 48                      | 48                      | 48                      | 48                      |
| <b>Filter—Type</b>  |                         |                         |                         |                         |
| Disposable  | Disposable              | Disposable              | Disposable              | Disposable              |
| Furnished   | Yes                     | Yes                     | Yes                     | Yes                     |
| (No.) Size Recommended in. [mm]                               | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
|   | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| <b>Refrigerant Charge Oz. [g]</b>                             |                         |                         |                         |                         |
|   | 165 [4678]              | 165 [4678]              | 165 [4678]              | 160 [4536]              |
| <b>Weights</b>  |                         |                         |                         |                         |
| Net Weight lbs. [kg]  | 580 [263]               | 585 [265]               | 585 [265]               | 590 [268]               |
| Ship Weight lbs. [kg]   | 587 [266]               | 592 [269]               | 592 [269]               | 597 [271]               |

See Page 20 for Notes.

[ ] Designates Metric Conversions



## NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model TZCGE- Series   | 360CLD135A              | 360CLB100A              | 360CLB135A              | 360DLB100A              |
|---|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Cooling Performance<sup>1</sup></b>                        |                         |                         |                         | <b>CONTINUED</b> →      |
| Gross Cooling Capacity Btu [kW]                               | 61,000 [17.87]          | 61,000 [17.87]          | 61,000 [17.87]          | 61,000 [17.87]          |
| EER/SEER <sup>2</sup>   | 11.1/13                 | 11.1/13                 | 11.1/13                 | 11.1/13                 |
| Nominal CFM/ARI Rated CFM [L/s]                               | 2000/1900 [944/897]     | 2000/1900 [944/897]     | 2000/1900 [944/897]     | 2000/1900 [944/897]     |
| ARI Net Cooling Capacity Btu [kW]                             | 59,000 [17.29]          | 59,000 [17.29]          | 59,000 [17.29]          | 59,000 [17.29]          |
| Net Sensible Capacity Btu [kW]                                | 42,000 [12.31]          | 42,000 [12.31]          | 42,000 [12.31]          | 42,000 [12.31]          |
| Net Latent Capacity Btu [kW]                                  | 17,000 [4.98]           | 17,000 [4.98]           | 17,000 [4.98]           | 17,000 [4.98]           |
| Net System Power kW   | 5.32                    | 5.32                    | 5.32                    | 5.32                    |
| <b>Heating Performance (Package Gas/Electric)<sup>3</sup></b> |                         |                         |                         |                         |
| Heating Input Btu [kW]  | 135,000 [39.55]         | 100,000 [29.3]          | 135,000 [39.55]         | 100,000 [29.3]          |
| Heating Output Btu [kW]                                       | 109,400 [32.05]         | 81,000 [23.73]          | 109,400 [32.05]         | 81,000 [23.73]          |
| Temperature Rise Range °F [°C]                                | 40-70 [22.2/38.9]       | 25-55 [13.9/30.6]       | 40-70 [22.2/38.9]       | 25-55 [13.9/30.6]       |
| AFUE %  | 80                      | 80                      | 80                      | 80                      |
| Steady State Efficiency (%)                                   | 81                      | 81                      | 81                      | 81                      |
| No. Burners   | 6                       | 5                       | 6                       | 5                       |
| No. Stages  | 1                       | 1                       | 1                       | 1                       |
| Gas Connection Pipe Size in. [mm]                             | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              |
| <b>Compressor</b>   |                         |                         |                         |                         |
| No./Type  | 1/Scroll                | 1/Scroll                | 1/Scroll                | 1/Scroll                |
| <b>Outdoor Sound Rating (dB)<sup>4</sup></b>                  | 83                      | 83                      | 83                      | 83                      |
| <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]                                     | 16.56 [1.54]            | 16.56 [1.54]            | 16.56 [1.54]            | 16.56 [1.54]            |
| Rows / FPI [FPcm]   | 2 / 22 [9]              | 2 / 22 [9]              | 2 / 22 [9]              | 2 / 22 [9]              |
| <b>Indoor Coil—Fin Type</b>                                   | Corrugated              | Corrugated              | Corrugated              | Corrugated              |
| Tube Type   | Rifled                  | Rifled                  | Rifled                  | Rifled                  |
| Tube Size in. [mm]  | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             |
| Face Area sq. ft. [sq. m]                                     | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             |
| Rows / FPI [FPcm]   | 3 / 15 [6]              | 3 / 15 [6]              | 3 / 15 [6]              | 3 / 15 [6]              |
| Refrigerant Control   | TX Valves               | TX Valves               | TX Valves               | TX Valves               |
| Drain Connection No./Size in. [mm]                            | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          |
| <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]   | 3930 [1855]             | 3930 [1855]             | 3930 [1855]             | 3930 [1855]             |
| No. Motors/HP   | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             |
| Motor RPM   | 1075                    | 1075                    | 1075                    | 1075                    |
| <b>Indoor Fan—Type</b>  | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          |
| No. Used/Diameter in. [mm]                                    | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       |
| Drive Type/No. Speeds   | Direct/3                | Belt/Variable           | Belt/Variable           | Belt/Variable           |
| No. Motors  | 1                       | 1                       | 1                       | 1                       |
| Motor HP  | 1                       | 1                       | 1                       | 1                       |
| Motor RPM   | 1075                    | 1725                    | 1725                    | 1725                    |
| Motor Frame Size  | 48                      | 56                      | 56                      | 56                      |
| <b>Filter—Type</b>  | Disposable              | Disposable              | Disposable              | Disposable              |
| Furnished   | Yes                     | Yes                     | Yes                     | Yes                     |
| (No.) Size Recommended in. [mm]                               | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
|   | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| <b>Refrigerant Charge Oz. [g]</b>                             | 160 [4536]              | 160 [4536]              | 160 [4536]              | 160 [4536]              |
| <b>Weights</b>  |                         |                         |                         |                         |
| Net Weight lbs. [kg]  | 597 [271]               | 590 [268]               | 590 [268]               | 590 [268]               |
| Ship Weight lbs. [kg]   | 604 [274]               | 597 [271]               | 597 [271]               | 597 [271]               |

See Page 20 for Notes.

[ ] Designates Metric Conversions

# GENERAL DATA—TZCGE-3 SERIES

## NOM. SIZES 3-5 TONS [10.6-17.6 kW]

| Model TZCGE- Series   | 360DLB135A              | 360JLD100A              | 360JLD100AX             | 360JLD135A              |
|---|-------------------------|-------------------------|-------------------------|-------------------------|
| <b>Cooling Performance<sup>1</sup></b>                        |                         |                         |                         | <b>CONTINUED</b> →      |
| Gross Cooling Capacity Btu [kW]                               | 61,000 [17.87]          | 61,000 [17.87]          | 61,000 [17.87]          | 61,000 [17.87]          |
| EER/SEER <sup>2</sup>   | 11.1/13                 | 11.1/13                 | 11.1/13                 | 11.1/13                 |
| Nominal CFM/ARI Rated CFM [L/s]                               | 2000/1900 [944/897]     | 2000/1900 [944/897]     | 2000/1900 [944/897]     | 2000/1900 [944/897]     |
| ARI Net Cooling Capacity Btu [kW]                             | 59,000 [17.29]          | 59,000 [17.29]          | 59,000 [17.29]          | 59,000 [17.29]          |
| Net Sensible Capacity Btu [kW]                                | 42,000 [12.31]          | 42,000 [12.31]          | 42,000 [12.31]          | 42,000 [12.31]          |
| Net Latent Capacity Btu [kW]                                  | 17,000 [4.98]           | 17,000 [4.98]           | 17,000 [4.98]           | 17,000 [4.98]           |
| Net System Power kW   | 5.32                    | 5.32                    | 5.32                    | 5.32                    |
| <b>Heating Performance (Package Gas/Electric)<sup>3</sup></b> |                         |                         |                         |                         |
| Heating Input Btu [kW]  | 135,000 [39.55]         | 100,000 [29.3]          | 100,000 [29.3]          | 135,000 [39.55]         |
| Heating Output Btu [kW]                                       | 109,400 [32.05]         | 78,500 [23]             | 78,500 [23]             | 106,500 [31.2]          |
| Temperature Rise Range °F [°C]                                | 40-70 [22.2/38.9]       | 25-55 [13.9/30.6]       | 25-55 [13.9/30.6]       | 40-70 [22.2/38.9]       |
| AFUE %  | 80                      | 80                      | 80                      | 80                      |
| Steady State Efficiency (%)                                   | 81                      | 81                      | 81                      | 81                      |
| No. Burners   | 6                       | 5                       | 5                       | 6                       |
| No. Stages  | 1                       | 1                       | 1                       | 1                       |
| Gas Connection Pipe Size in. [mm]                             | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              | 0.5 [12.7]              |
| <b>Compressor</b>   |                         |                         |                         |                         |
| No./Type  | 1/Scroll                | 1/Scroll                | 1/Scroll                | 1/Scroll                |
| <b>Outdoor Sound Rating (dB)<sup>4</sup></b>                  | 83                      | 83                      | 83                      | 83                      |
| <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]                                     | 16.56 [1.54]            | 16.56 [1.54]            | 16.56 [1.54]            | 16.56 [1.54]            |
| Rows / FPI [FPcm]   | 2 / 22 [9]              | 2 / 22 [9]              | 2 / 22 [9]              | 2 / 22 [9]              |
| <b>Indoor Coil—Fin Type</b>                                   | Corrugated              | Corrugated              | Corrugated              | Corrugated              |
| Tube Type   | Rifled                  | Rifled                  | Rifled                  | Rifled                  |
| Tube Size in. [mm]  | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             | 0.375 [9.5]             |
| Face Area sq. ft. [sq. m]                                     | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             | 5.17 [0.48]             |
| Rows / FPI [FPcm]   | 3 / 15 [6]              | 3 / 15 [6]              | 3 / 15 [6]              | 3 / 15 [6]              |
| Refrigerant Control   | TX Valves               | TX Valves               | TX Valves               | TX Valves               |
| Drain Connection No./Size in. [mm]                            | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          | 1/0.75 [19.05]          |
| <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]   | 3930 [1855]             | 3930 [1855]             | 3930 [1855]             | 3930 [1855]             |
| No. Motors/HP   | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             | 1 at 1/3 HP             |
| Motor RPM   | 1075                    | 1075                    | 1075                    | 1075                    |
| <b>Indoor Fan—Type</b>  | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          | FC Centrifugal          |
| No. Used/Diameter in. [mm]                                    | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       | 1/10x10 [254x254]       |
| Drive Type/No. Speeds   | Belt/Variable           | Direct/3                | Direct/3                | Direct/3                |
| No. Motors  | 1                       | 1                       | 1                       | 1                       |
| Motor HP  | 1                       | 1                       | 1                       | 1                       |
| Motor RPM   | 1725                    | 1075                    | 1075                    | 1075                    |
| Motor Frame Size  | 56                      | 48                      | 48                      | 48                      |
| <b>Filter—Type</b>  | Disposable              | Disposable              | Disposable              | Disposable              |
| Furnished   | Yes                     | Yes                     | Yes                     | Yes                     |
| (No.) Size Recommended in. [mm]                               | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
|   | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] | (1)1x16x25 [25x406x635] |
| <b>Refrigerant Charge Oz. [g]</b>                             | 160 [4536]              | 160 [4536]              | 160 [4536]              | 160 [4536]              |
| <b>Weights</b>  |                         |                         |                         |                         |
| Net Weight lbs. [kg]  | 590 [268]               | 590 [268]               | 590 [268]               | 597 [271]               |
| Ship Weight lbs. [kg]   | 597 [271]               | 597 [271]               | 597 [271]               | 604 [274]               |

See Page 20 for Notes.

[ ] Designates Metric Conversions

## NOM. SIZES 3-5 TONS [10.6-17.6 kW]

|   |                     |
|---|---------------------|
| <b>Model TZCGE- Series</b>                                    | <b>360JLD135AX</b>  |
| <b>Cooling Performance<sup>1</sup></b>                        |                     |
| Gross Cooling Capacity Btu [kW]                               | 61,000 [17.87]      |
| EER/SEER <sup>2</sup>   | 11.1/13             |
| Nominal CFM/ARI Rated CFM [L/s]                               | 2000/1900 [944/897] |
| ARI Net Cooling Capacity Btu [kW]                             | 59,000 [17.29]      |
| Net Sensible Capacity Btu [kW]                                | 42,000 [12.31]      |
| Net Latent Capacity Btu [kW]                                  | 17,000 [4.98]       |
| Net System Power kW   | 5.32                |
| <b>Heating Performance (Package Gas/Electric)<sup>3</sup></b> |                     |
| Heating Input Btu [kW]  | 135,000 [39.55]     |
| Heating Output Btu [kW]                                       | 106,500 [31.2]      |
| Temperature Rise Range °F [°C]                                | 40-70 [22.2/38.9]   |
| AFUE %  | 80                  |
| Steady State Efficiency (%)                                   | 81                  |
| No. Burners   | 6                   |
| No. Stages  | 1                   |
| Gas Connection Pipe Size in. [mm]                             | 0.5 [12.7]          |
| <b>Compressor</b>   |                     |
| No./Type  | 1/Scroll            |
| <b>Outdoor Sound Rating (dB)<sup>4</sup></b>                  |                     |
| 83  |                     |
| <b>Outdoor Coil—Fin Type</b>                                  |                     |
| Tube Type   | Louvered            |
| Tube Size in. [mm] OD   | Rifled              |
| Face Area sq. ft. [sq. m]                                     | 0.375 [9.5]         |
| Rows / FPI [FPcm]   | 16.56 [1.54]        |
| <b>Indoor Coil—Fin Type</b>                                   |                     |
| Tube Type   | Corrugated          |
| Tube Size in. [mm]  | Rifled              |
| Face Area sq. ft. [sq. m]                                     | 0.375 [9.5]         |
| Rows / FPI [FPcm]   | 5.17 [0.48]         |
| Refrigerant Control   | 3 / 15 [6]          |
| Drain Connection No./Size in. [mm]                            | TX Valves           |
| <b>Outdoor Fan—Type</b>                                       |                     |
| No. Used/Diameter in. [mm]                                    | Propeller           |
| Drive Type/No. Speeds   | 1/24 [609.6]        |
| CFM [L/s]   | Direct/1            |
| No. Motors/HP   | 3930 [1855]         |
| Motor RPM   | 1 at 1/3 HP         |
| <b>Indoor Fan—Type</b>  |                     |
| No. Used/Diameter in. [mm]                                    | FC Centrifugal      |
| Drive Type/No. Speeds   | 1/10x10 [254x254]   |
| No. Motors  | Direct/3            |
| Motor HP  | 1                   |
| Motor RPM   | 1                   |
| Motor Frame Size  | 1075                |
| <b>Filter—Type</b>  |                     |
| Furnished   | Disposable          |
| (No.) Size Recommended in. [mm]                               | Yes                 |
| (1)1x16x25 [25x406x635]                                       |                     |
| (1)1x16x25 [25x406x635]                                       |                     |
| <b>Refrigerant Charge Oz. [g]</b>                             |                     |
| 160 [4536]  |                     |
| <b>Weights</b>  |                     |
| Net Weight lbs. [kg]  | 597 [271]           |
| Ship Weight lbs. [kg]   | 604 [274]           |

See Page 20 for Notes.

[ ] Designates Metric Conversions

## GENERAL DATA—TZCGE-3 SERIES

### NOTES:

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. ARI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to  $\pm 20\%$  of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on ARI Standard 210/240 or 360.
2. EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures.
3. Heating Performance limit settings and rating data were established and approved under laboratory test conditions using American National Standard Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level.
4. Outdoor Sound Rating shown is tested in accordance with ARI Standard 270.

# SYSTEMS PERFORMANCE—TZCGE-3 SERIES

## GROSS SYSTEMS PERFORMANCE DATA—336

|                                      |                 | ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ① |              |              |               |              |              |               |              |              |              |
|--------------------------------------|-----------------|---|--------------|--------------|---------------|--------------|--------------|---------------|--------------|--------------|--------------|
| wbE                                  |                 | 71°F [21.7°C]                             |              |              | 67°F [19.4°C] |              |              | 63°F [17.2°C] |              |              |              |
| CFM [L/s]                            |                 | 1500 [707.9]                              | 1200 [566.3] | 900 [424.8]  | 1500 [707.9]  | 1200 [566.3] | 900 [424.8]  | 1500 [707.9]  | 1200 [566.3] | 900 [424.8]  |              |
| DR ①                                 |                 | .16                                       | .12          | .06          | .16           | .12          | .06          | .16           | .12          | .06          |              |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 75 [23.9]       | Total BTUH [kW]                           | 46.6 [13.66] | 44.6 [13.07] | 42.5 [12.46]  | 43.2 [12.66] | 41.4 [12.13] | 39.5 [11.58]  | 40.2 [11.78] | 38.4 [11.25] | 36.7 [10.76] |
|                                      |                 | Sens BTUH [kW]                            | 28.3 [8.29]  | 25.3 [7.41]  | 22.4 [6.56]   | 33.4 [9.79]  | 29.9 [8.76]  | 26.4 [7.74]   | 38.6 [11.31] | 34.6 [10.14] | 30.6 [8.97]  |
|                                      |                 | Power                                     | 2.1          | 2.1          | 2.0           | 2.2          | 2.1          | 2.1           | 2.2          | 2.1          | 2.1          |
|                                      | 80 [26.7]       | Total BTUH [kW]                           | 45.4 [13.31] | 43.5 [12.75] | 41.5 [12.16]  | 42.1 [12.34] | 40.3 [11.81] | 38.4 [11.25]  | 39.0 [11.43] | 37.3 [10.93] | 35.6 [10.43] |
|                                      |                 | Sens BTUH [kW]                            | 27.7 [8.12]  | 24.8 [7.27]  | 21.9 [6.42]   | 32.8 [9.61]  | 29.4 [8.62]  | 25.9 [7.59]   | 38.0 [11.14] | 34.0 [9.96]  | 30.1 [8.82]  |
|                                      |                 | Power                                     | 2.3          | 2.2          | 2.2           | 2.3          | 2.3          | 2.2           | 2.3          | 2.3          | 2.2          |
|                                      | 85 [29.4]       | Total BTUH [kW]                           | 44.3 [12.98] | 42.3 [12.40] | 40.4 [11.84]  | 40.9 [11.99] | 39.2 [11.49] | 37.4 [10.96]  | 37.9 [11.11] | 36.2 [10.61] | 34.6 [10.14] |
|                                      |                 | Sens BTUH [kW]                            | 27.1 [7.94]  | 24.2 [7.09]  | 21.4 [6.27]   | 32.2 [9.44]  | 28.8 [8.44]  | 25.4 [7.44]   | 37.4 [10.96] | 33.5 [9.82]  | 29.6 [8.67]  |
|                                      |                 | Power                                     | 2.4          | 2.3          | 2.3           | 2.4          | 2.4          | 2.3           | 2.5          | 2.4          | 2.4          |
|                                      | 90 [32.2]       | Total BTUH [kW]                           | 43.1 [12.63] | 41.2 [12.07] | 39.3 [11.52]  | 39.8 [11.66] | 38.0 [11.14] | 36.3 [10.64]  | 36.7 [10.76] | 35.1 [10.29] | 33.5 [9.82]  |
| Sens BTUH [kW]                       |                 | 26.4 [7.74]                               | 23.7 [6.95]  | 20.9 [6.13]  | 31.5 [9.23]   | 28.3 [8.29]  | 25.0 [7.33]  | 36.7 [10.76]  | 32.9 [9.64]  | 29.1 [8.53]  |              |
| Power                                |                 | 2.5                                       | 2.5          | 2.4          | 2.6           | 2.5          | 2.5          | 2.6           | 2.5          | 2.5          |              |
| 95 [35]                              | Total BTUH [kW] | 41.9 [12.28]                              | 40.1 [11.75] | 38.3 [11.22] | 38.6 [11.31]  | 36.9 [10.81] | 35.2 [10.32] | 35.5 [10.40]  | 33.9 [9.94]  | 32.4 [9.50]  |              |
|                                      | Sens BTUH [kW]  | 25.8 [7.56]                               | 23.1 [6.77]  | 20.4 [5.98]  | 30.9 [9.06]   | 27.7 [8.12]  | 24.5 [7.18]  | 35.5 [10.40]  | 32.4 [9.50]  | 28.6 [8.38]  |              |
|                                      | Power           | 2.7                                       | 2.6          | 2.6          | 2.7           | 2.7          | 2.6          | 2.7           | 2.7          | 2.6          |              |
| 100 [37.8]                           | Total BTUH [kW] | 40.7 [11.93]                              | 38.9 [11.40] | 37.1 [10.87] | 37.3 [10.93]  | 35.7 [10.46] | 34.1 [9.99]  | 34.3 [10.05]  | 32.8 [9.61]  | 31.3 [9.17]  |              |
|                                      | Sens BTUH [kW]  | 25.2 [7.39]                               | 22.5 [6.59]  | 19.9 [5.83]  | 30.3 [8.88]   | 27.1 [7.94]  | 23.9 [7.00]  | 34.3 [10.05]  | 31.8 [9.32]  | 28.1 [8.24]  |              |
|                                      | Power           | 2.8                                       | 2.8          | 2.7          | 2.9           | 2.8          | 2.7          | 2.9           | 2.8          | 2.8          |              |
| 105 [40.6]                           | Total BTUH [kW] | 39.4 [11.55]                              | 37.7 [11.05] | 36.0 [10.55] | 36.1 [10.58]  | 34.5 [10.11] | 32.9 [9.64]  | 33.0 [9.67]   | 31.6 [9.26]  | 30.1 [8.82]  |              |
|                                      | Sens BTUH [kW]  | 24.5 [7.18]                               | 21.9 [6.42]  | 19.4 [5.69]  | 29.6 [8.67]   | 26.5 [7.77]  | 23.4 [6.86]  | 33.0 [9.67]   | 31.2 [9.14]  | 27.5 [8.06]  |              |
|                                      | Power           | 2.9                                       | 2.9          | 2.8          | 3.0           | 2.9          | 2.9          | 3.0           | 2.9          | 2.9          |              |
| 110 [43.3]                           | Total BTUH [kW] | 38.1 [11.17]                              | 36.5 [10.70] | 34.8 [10.20] | 34.8 [10.20]  | 33.3 [9.76]  | 31.8 [9.32]  | 31.7 [9.29]   | 30.3 [8.88]  | 29.0 [8.50]  |              |
|                                      | Sens BTUH [kW]  | 23.7 [6.95]                               | 21.3 [6.24]  | 18.8 [5.51]  | 28.9 [8.47]   | 25.8 [7.56]  | 22.8 [6.68]  | 31.7 [9.29]   | 30.3 [8.88]  | 26.9 [7.88]  |              |
|                                      | Power           | 3.1                                       | 3.0          | 3.0          | 3.1           | 3.1          | 3.0          | 3.1           | 3.1          | 3.0          |              |
| 115 [46.1]                           | Total BTUH [kW] | 36.8 [10.79]                              | 35.2 [10.32] | 33.6 [9.85]  | 33.5 [9.82]   | 32.0 [9.38]  | 30.6 [8.97]  | 30.4 [8.91]   | 29.1 [8.53]  | 27.7 [8.12]  |              |
|                                      | Sens BTUH [kW]  | 23.0 [6.74]                               | 20.6 [6.04]  | 18.2 [5.33]  | 28.1 [8.24]   | 25.1 [7.36]  | 22.2 [6.51]  | 30.4 [8.91]   | 29.1 [8.53]  | 26.3 [7.71]  |              |
|                                      | Power           | 3.2                                       | 3.2          | 3.1          | 3.3           | 3.2          | 3.1          | 3.3           | 3.2          | 3.1          |              |

## GROSS SYSTEMS PERFORMANCE DATA—342

|                                      |                 | ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ① |              |              |               |              |              |               |              |              |              |
|--------------------------------------|-----------------|---|--------------|--------------|---------------|--------------|--------------|---------------|--------------|--------------|--------------|
| wbE                                  |                 | 71°F [21.7°C]                             |              |              | 67°F [19.4°C] |              |              | 63°F [17.2°C] |              |              |              |
| CFM [L/s]                            |                 | 1810 [854.2]                              | 1450 [684.3] | 1090 [514.4] | 1810 [854.2]  | 1450 [684.3] | 1090 [514.4] | 1810 [854.2]  | 1450 [684.3] | 1090 [514.4] |              |
| DR ①                                 |                 | .23                                       | .2           | .15          | .23           | .2           | .15          | .23           | .2           | .15          |              |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 75 [23.9]       | Total BTUH [kW]                           | 52.9 [15.50] | 50.6 [14.83] | 48.3 [14.16]  | 49.8 [14.59] | 47.6 [13.95] | 45.5 [13.33]  | 47.4 [13.89] | 45.3 [13.28] | 43.3 [12.69] |
|                                      |                 | Sens BTUH [kW]                            | 32.9 [9.64]  | 29.4 [8.62]  | 26.0 [7.62]   | 39.1 [11.46] | 35.0 [10.26] | 30.9 [9.06]   | 45.3 [13.28] | 40.6 [11.90] | 35.9 [10.52] |
|                                      |                 | Power                                     | 2.5          | 2.5          | 2.4           | 2.5          | 2.5          | 2.4           | 2.5          | 2.5          | 2.4          |
|                                      | 80 [26.7]       | Total BTUH [kW]                           | 51.5 [15.09] | 49.3 [14.45] | 47.0 [13.77]  | 48.5 [14.21] | 46.3 [13.57] | 44.2 [12.95]  | 46.0 [13.48] | 44.0 [12.90] | 42.0 [12.31] |
|                                      |                 | Sens BTUH [kW]                            | 32.1 [9.41]  | 28.7 [8.41]  | 25.4 [7.44]   | 38.3 [11.22] | 34.3 [10.05] | 30.3 [8.88]   | 44.8 [13.13] | 39.9 [11.69] | 35.3 [10.35] |
|                                      |                 | Power                                     | 2.7          | 2.6          | 2.6           | 2.7          | 2.6          | 2.6           | 2.7          | 2.6          | 2.6          |
|                                      | 85 [29.4]       | Total BTUH [kW]                           | 50.1 [14.68] | 48.0 [14.07] | 45.8 [13.42]  | 47.1 [13.80] | 45.0 [13.19] | 43.0 [12.60]  | 44.7 [13.10] | 42.7 [12.51] | 40.8 [11.96] |
|                                      |                 | Sens BTUH [kW]                            | 31.3 [9.17]  | 28.1 [8.24]  | 24.8 [7.27]   | 37.6 [11.02] | 33.6 [9.85]  | 29.7 [8.70]   | 44.0 [12.90] | 39.3 [11.52] | 34.7 [10.17] |
|                                      |                 | Power                                     | 2.8          | 2.8          | 2.7           | 2.8          | 2.8          | 2.7           | 2.8          | 2.8          | 2.7          |
|                                      | 90 [32.2]       | Total BTUH [kW]                           | 48.7 [14.27] | 46.6 [13.66] | 44.5 [13.04]  | 45.7 [13.39] | 43.7 [12.81] | 41.7 [12.22]  | 43.2 [12.66] | 41.4 [12.13] | 39.5 [11.58] |
| Sens BTUH [kW]                       |                 | 30.7 [9.00]                               | 27.4 [8.03]  | 24.2 [7.09]  | 36.9 [10.81]  | 33.0 [9.67]  | 29.2 [8.56]  | 43.0 [12.60]  | 38.7 [11.34] | 34.2 [10.02] |              |
| Power                                |                 | 3.0                                       | 2.9          | 2.9          | 3.0           | 2.9          | 2.9          | 3.0           | 2.9          | 2.9          |              |
| 95 [35]                              | Total BTUH [kW] | 47.3 [13.86]                              | 45.2 [13.25] | 43.2 [12.66] | 44.2 [12.95]  | 42.3 [12.40] | 40.4 [11.84] | 41.8 [12.25]  | 40.0 [11.72] | 38.2 [11.20] |              |
|                                      | Sens BTUH [kW]  | 30.0 [8.79]                               | 26.8 [7.85]  | 23.7 [6.95]  | 36.2 [10.61]  | 32.4 [9.50]  | 28.6 [8.38]  | 41.8 [12.25]  | 38.0 [11.14] | 33.6 [9.85]  |              |
|                                      | Power           | 3.2                                       | 3.1          | 3.0          | 3.2           | 3.1          | 3.0          | 3.2           | 3.1          | 3.0          |              |
| 100 [37.8]                           | Total BTUH [kW] | 45.8 [13.42]                              | 43.8 [12.84] | 41.8 [12.25] | 42.7 [12.51]  | 40.9 [11.99] | 39.0 [11.43] | 40.3 [11.81]  | 38.6 [11.31] | 36.8 [10.79] |              |
|                                      | Sens BTUH [kW]  | 29.2 [8.56]                               | 26.2 [7.68]  | 23.1 [6.77]  | 35.4 [10.37]  | 31.7 [9.29]  | 28.0 [8.21]  | 40.3 [11.81]  | 37.4 [10.96] | 33.0 [9.67]  |              |
|                                      | Power           | 3.3                                       | 3.3          | 3.2          | 3.3           | 3.2          | 3.2          | 3.3           | 3.2          | 3.2          |              |
| 105 [40.6]                           | Total BTUH [kW] | 44.3 [12.98]                              | 42.3 [12.40] | 40.4 [11.84] | 41.2 [12.07]  | 39.4 [11.55] | 37.6 [11.02] | 38.8 [11.37]  | 37.1 [10.87] | 35.4 [10.37] |              |
|                                      | Sens BTUH [kW]  | 28.5 [8.35]                               | 25.5 [7.47]  | 22.5 [6.59]  | 34.7 [10.17]  | 31.0 [9.09]  | 27.4 [8.03]  | 38.8 [11.37]  | 36.7 [10.76] | 32.4 [9.50]  |              |
|                                      | Power           | 3.5                                       | 3.4          | 3.3          | 3.5           | 3.4          | 3.3          | 3.5           | 3.4          | 3.3          |              |
| 110 [43.3]                           | Total BTUH [kW] | 42.7 [12.51]                              | 40.8 [11.96] | 39.0 [11.43] | 39.6 [11.61]  | 37.9 [11.11] | 36.2 [10.61] | 37.2 [10.90]  | 35.6 [10.43] | 34.0 [9.96]  |              |
|                                      | Sens BTUH [kW]  | 27.6 [8.09]                               | 24.7 [7.24]  | 21.8 [6.39]  | 33.8 [9.91]   | 30.3 [8.88]  | 26.7 [7.83]  | 37.2 [10.90]  | 35.6 [10.43] | 31.7 [9.29]  |              |
|                                      | Power           | 3.6                                       | 3.6          | 3.5          | 3.6           | 3.6          | 3.5          | 3.6           | 3.6          | 3.5          |              |
| 115 [46.1]                           | Total BTUH [kW] | 41.1 [12.05]                              | 39.3 [11.52] | 37.5 [10.99] | 38.0 [11.14]  | 36.3 [10.64] | 34.7 [10.17] | 35.6 [10.43]  | 34.0 [9.96]  | 32.5 [9.52]  |              |
|                                      | Sens BTUH [kW]  | 26.6 [7.80]                               | 23.9 [7.00]  | 21.1 [6.18]  | 32.9 [9.64]   | 29.4 [8.62]  | 26.0 [7.62]  | 35.6 [10.43]  | 34.0 [9.96]  | 31.0 [9.09]  |              |
|                                      | Power           | 3.8                                       | 3.7          | 3.6          | 3.8           | 3.7          | 3.6          | 3.8           | 3.7          | 3.6          |              |

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

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

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

[ ] Designates Metric Conversions

# SYSTEMS PERFORMANCE—TZCGE-3 SERIES

## GROSS SYSTEMS PERFORMANCE DATA—348

|                                      |            | ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①  |                                     |                                     |                                    |                                     |                                     |                                     |                                     |                                     |                                     |
|--------------------------------------|------------|--|-------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| wbE                                  |            | 71°F [21.7°C]                              |                                     |                                     | 67°F [19.4°C]                      |                                     |                                     | 63°F [17.2°C]                       |                                     |                                     |                                     |
| CFM [L/s]                            |            | 2000 [943.8]                               | 1600 [755.1]                        | 1200 [566.3]                        | 2000 [943.8]                       | 1600 [755.1]                        | 1200 [566.3]                        | 2000 [943.8]                        | 1600 [755.1]                        | 1200 [566.3]                        |                                     |
| DR ①                                 |            | .21  | .18                                 | .14                                 | .21                                | .18                                 | .14                                 | .21                                 | .18                                 | .14                                 |                                     |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 75 [23.9]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 63.8 [18.70]<br>38.9 [11.40]<br>2.9 | 61.1 [17.91]<br>34.9 [10.23]<br>2.8 | 58.3 [17.09]<br>30.8 [9.03]<br>2.8 | 59.4 [17.41]<br>45.9 [13.45]<br>2.9 | 56.9 [16.68]<br>41.1 [12.05]<br>2.9 | 54.3 [15.91]<br>36.3 [10.64]<br>2.8 | 54.4 [15.94]<br>53.0 [15.53]<br>2.9 | 52.0 [15.24]<br>47.5 [13.92]<br>2.8 | 49.6 [14.54]<br>42.0 [12.31]<br>2.7 |
|                                      | 80 [26.7]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 62.0 [18.17]<br>38.0 [11.14]<br>3.1 | 59.3 [17.38]<br>34.0 [9.96]<br>3.0  | 56.6 [16.59]<br>30.0 [8.79]<br>3.0 | 57.6 [16.88]<br>44.9 [13.16]<br>3.1 | 55.1 [16.15]<br>40.2 [11.78]<br>3.0 | 52.6 [15.42]<br>35.5 [10.40]<br>3.0 | 52.5 [15.39]<br>52.1 [15.27]<br>3.1 | 50.3 [14.74]<br>46.6 [13.66]<br>3.0 | 48.0 [14.07]<br>41.2 [12.07]<br>2.9 |
|                                      | 85 [29.4]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 60.2 [17.64]<br>37.0 [10.84]<br>3.3 | 57.6 [16.88]<br>33.1 [9.70]<br>3.2  | 55.0 [16.12]<br>29.2 [8.56]<br>3.1 | 55.8 [16.35]<br>43.9 [12.87]<br>3.3 | 53.4 [15.65]<br>39.3 [11.52]<br>3.2 | 50.9 [14.92]<br>34.7 [10.17]<br>3.2 | 50.7 [14.86]<br>50.7 [14.86]<br>3.3 | 48.5 [14.21]<br>45.7 [13.39]<br>3.2 | 46.3 [13.57]<br>40.4 [11.84]<br>3.1 |
|                                      | 90 [32.2]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 58.4 [17.12]<br>36.0 [10.55]<br>3.5 | 55.9 [16.38]<br>32.2 [9.44]<br>3.4  | 53.3 [15.62]<br>28.4 [8.32]<br>3.3 | 54.0 [15.83]<br>42.9 [12.57]<br>3.5 | 51.7 [15.15]<br>38.4 [11.25]<br>3.4 | 49.3 [14.45]<br>34.0 [9.96]<br>3.4  | 48.9 [14.33]<br>48.9 [14.33]<br>3.4 | 46.8 [13.72]<br>44.8 [13.13]<br>3.4 | 44.7 [13.10]<br>39.6 [11.61]<br>3.3 |
|                                      | 95 [35]    | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 56.6 [16.59]<br>35.0 [10.26]<br>3.7 | 54.2 [15.88]<br>31.3 [9.17]<br>3.6  | 51.7 [15.15]<br>27.7 [8.12]<br>3.5 | 52.2 [15.30]<br>42.0 [12.31]<br>3.7 | 50.0 [14.65]<br>37.6 [11.02]<br>3.6 | 47.7 [13.98]<br>33.2 [9.73]<br>3.5  | 47.2 [13.83]<br>47.2 [13.83]<br>3.6 | 45.1 [13.22]<br>44.1 [12.92]<br>3.6 | 43.1 [12.63]<br>38.8 [11.37]<br>3.5 |
|                                      | 100 [37.8] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 54.9 [16.09]<br>34.1 [9.99]<br>3.9  | 52.6 [15.42]<br>30.5 [8.94]<br>3.8  | 50.2 [14.71]<br>26.9 [7.88]<br>3.7 | 50.5 [14.80]<br>41.0 [12.02]<br>3.9 | 48.4 [14.18]<br>36.7 [10.76]<br>3.8 | 46.2 [13.54]<br>32.5 [9.52]<br>3.7  | 45.5 [13.33]<br>45.5 [13.33]<br>3.8 | 43.5 [12.75]<br>43.1 [12.63]<br>3.8 | 41.5 [12.16]<br>38.1 [11.17]<br>3.7 |
|                                      | 105 [40.6] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 53.3 [15.62]<br>33.2 [9.73]<br>4.0  | 51.0 [14.95]<br>29.7 [8.70]<br>4.0  | 48.7 [14.27]<br>26.3 [7.71]<br>3.9 | 48.9 [14.33]<br>40.2 [11.78]<br>4.1 | 46.8 [13.72]<br>36.0 [10.55]<br>4.0 | 44.7 [13.10]<br>31.8 [9.32]<br>3.9  | 43.9 [12.87]<br>43.9 [12.87]<br>4.0 | 42.0 [12.31]<br>42.0 [12.31]<br>3.9 | 40.1 [11.75]<br>37.4 [10.96]<br>3.9 |
|                                      | 110 [43.3] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 51.9 [15.21]<br>32.4 [9.50]<br>4.2  | 49.6 [14.54]<br>29.1 [8.53]<br>4.2  | 47.4 [13.89]<br>25.7 [7.53]<br>4.1 | 47.5 [13.92]<br>39.4 [11.55]<br>4.3 | 45.4 [13.31]<br>35.3 [10.35]<br>4.2 | 43.3 [12.69]<br>31.2 [9.14]<br>4.1  | 42.4 [12.43]<br>42.4 [12.43]<br>4.2 | 40.5 [11.87]<br>40.5 [11.87]<br>4.1 | 38.7 [11.34]<br>36.8 [10.79]<br>4.1 |
|                                      | 115 [46.1] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 50.5 [14.80]<br>31.8 [9.32]<br>4.4  | 48.3 [14.16]<br>28.5 [8.35]<br>4.3  | 46.1 [13.51]<br>25.1 [7.36]<br>4.3 | 46.1 [13.51]<br>38.8 [11.37]<br>4.5 | 44.1 [12.92]<br>34.7 [10.17]<br>4.4 | 42.1 [12.34]<br>30.7 [9.00]<br>4.3  | 41.0 [12.02]<br>41.0 [12.02]<br>4.4 | 39.3 [11.52]<br>39.3 [11.52]<br>4.3 | 37.5 [10.99]<br>36.3 [10.64]<br>4.2 |

## GROSS SYSTEMS PERFORMANCE DATA—360

|                                      |            | ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①  |                                     |                                     |                                     |                                     |                                     |                                     |                                     |                                     |                                     |
|--------------------------------------|------------|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| wbE                                  |            | 71°F [21.7°C]                              |                                     |                                     | 67°F [19.4°C]                       |                                     |                                     | 63°F [17.2°C]                       |                                     |                                     |                                     |
| CFM [L/s]                            |            | 2380 [1123.2]                              | 1900 [896.7]                        | 1420 [670.1]                        | 2380 [1123.2]                       | 1900 [896.7]                        | 1420 [670.1]                        | 2380 [1123.2]                       | 1900 [896.7]                        | 1420 [670.1]                        |                                     |
| DR ①                                 |            | .20  | .17                                 | .12                                 | .20                                 | .17                                 | .12                                 | .20                                 | .17                                 | .12                                 |                                     |
| OUTDOOR DRY BULB TEMPERATURE °F [°C] | 75 [23.9]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 78.2 [22.92]<br>46.4 [13.60]<br>3.9 | 74.8 [21.92]<br>41.5 [12.16]<br>3.8 | 71.4 [20.93]<br>36.7 [10.76]<br>3.7 | 72.4 [21.22]<br>53.7 [15.74]<br>3.9 | 69.2 [20.28]<br>48.1 [14.10]<br>3.8 | 66.1 [19.37]<br>42.5 [12.46]<br>3.7 | 70.5 [20.66]<br>61.8 [18.11]<br>3.8 | 67.4 [19.75]<br>55.3 [16.21]<br>3.7 | 64.3 [18.84]<br>48.9 [14.33]<br>3.6 |
|                                      | 80 [26.7]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 76.2 [22.33]<br>45.5 [13.33]<br>4.1 | 72.9 [21.36]<br>40.7 [11.93]<br>4.0 | 69.6 [20.40]<br>36.0 [10.55]<br>3.9 | 70.4 [20.63]<br>52.8 [15.47]<br>4.1 | 67.3 [19.72]<br>47.2 [13.83]<br>4.0 | 64.2 [18.82]<br>41.7 [12.22]<br>3.9 | 68.4 [20.05]<br>60.9 [17.85]<br>4.0 | 65.4 [19.17]<br>54.5 [15.97]<br>3.9 | 62.5 [18.32]<br>48.1 [14.10]<br>3.8 |
|                                      | 85 [29.4]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 74.1 [21.72]<br>44.4 [13.01]<br>4.3 | 70.8 [20.75]<br>39.7 [11.63]<br>4.3 | 67.6 [19.81]<br>35.1 [10.29]<br>4.2 | 68.2 [19.99]<br>51.6 [15.12]<br>4.4 | 65.3 [19.14]<br>46.2 [13.54]<br>4.3 | 62.3 [18.26]<br>40.8 [11.96]<br>4.2 | 66.3 [19.43]<br>59.7 [17.50]<br>4.2 | 63.4 [18.58]<br>53.5 [15.68]<br>4.2 | 60.5 [17.73]<br>47.3 [13.86]<br>4.1 |
|                                      | 90 [32.2]  | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 71.9 [21.07]<br>43.1 [12.63]<br>4.6 | 68.7 [20.13]<br>38.6 [11.31]<br>4.5 | 65.6 [19.23]<br>34.1 [9.99]<br>4.4  | 66.0 [19.34]<br>50.4 [14.77]<br>4.6 | 63.1 [18.49]<br>45.1 [13.22]<br>4.5 | 60.3 [17.67]<br>39.9 [11.69]<br>4.4 | 64.1 [18.79]<br>58.5 [17.14]<br>4.5 | 61.3 [17.97]<br>52.4 [15.36]<br>4.4 | 58.5 [17.14]<br>46.3 [13.57]<br>4.3 |
|                                      | 95 [35]    | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 69.6 [20.40]<br>41.8 [12.25]<br>4.8 | 66.6 [19.52]<br>37.5 [10.99]<br>4.7 | 63.6 [18.64]<br>33.1 [9.70]<br>4.6  | 63.8 [18.70]<br>49.1 [14.39]<br>4.8 | 61.0 [17.88]<br>44.0 [12.90]<br>4.7 | 58.2 [17.06]<br>38.9 [11.40]<br>4.6 | 61.8 [18.11]<br>57.2 [16.76]<br>4.7 | 59.1 [17.32]<br>51.2 [15.01]<br>4.6 | 56.4 [16.53]<br>45.3 [13.28]<br>4.5 |
|                                      | 100 [37.8] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 67.4 [19.75]<br>40.6 [11.90]<br>5.1 | 64.4 [18.87]<br>36.3 [10.64]<br>5.0 | 61.5 [18.02]<br>32.1 [9.41]<br>4.9  | 61.5 [18.02]<br>47.8 [14.01]<br>5.1 | 58.9 [17.26]<br>42.8 [12.54]<br>5.0 | 56.2 [16.47]<br>37.8 [11.08]<br>4.9 | 59.6 [17.47]<br>55.9 [16.38]<br>5.0 | 57.0 [16.71]<br>50.1 [14.68]<br>4.9 | 54.4 [15.94]<br>44.3 [12.98]<br>4.8 |
|                                      | 105 [40.6] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 65.2 [19.11]<br>39.3 [11.52]<br>5.3 | 62.4 [18.29]<br>35.2 [10.32]<br>5.2 | 59.5 [17.44]<br>31.1 [9.11]<br>5.1  | 59.3 [17.38]<br>46.6 [13.66]<br>5.3 | 56.8 [16.65]<br>41.8 [12.25]<br>5.2 | 54.2 [15.88]<br>36.9 [10.81]<br>5.1 | 57.4 [16.82]<br>54.7 [16.03]<br>5.2 | 54.9 [16.09]<br>49.0 [14.36]<br>5.1 | 52.4 [15.36]<br>43.3 [12.69]<br>5.0 |
|                                      | 110 [43.3] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 63.1 [18.49]<br>38.3 [11.22]<br>5.6 | 60.4 [17.70]<br>34.3 [10.05]<br>5.4 | 57.6 [16.88]<br>30.3 [8.88]<br>5.3  | 57.3 [16.79]<br>45.5 [13.33]<br>5.6 | 54.8 [16.06]<br>40.8 [11.96]<br>5.5 | 52.3 [15.33]<br>36.0 [10.55]<br>5.3 | 55.3 [16.21]<br>53.6 [15.71]<br>5.5 | 52.9 [15.50]<br>48.0 [14.07]<br>5.3 | 50.5 [14.80]<br>42.4 [12.43]<br>5.2 |
|                                      | 115 [46.1] | Total BTUH [kW]<br>Sens BTUH [kW]<br>Power | 61.1 [17.91]<br>37.4 [10.96]<br>5.8 | 58.5 [17.14]<br>33.5 [9.82]<br>5.7  | 55.8 [16.35]<br>29.6 [8.67]<br>5.6  | 55.3 [16.21]<br>44.6 [13.07]<br>5.8 | 52.9 [15.50]<br>40.0 [11.72]<br>5.7 | 50.5 [14.80]<br>35.3 [10.35]<br>5.6 | 53.3 [15.62]<br>52.7 [15.44]<br>5.7 | 51.0 [14.95]<br>47.2 [13.83]<br>5.6 | 48.7 [14.27]<br>41.7 [12.22]<br>5.5 |

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

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

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

[ ] Designates Metric Conversions

## DIRECT-DRIVE 208 AIRFLOW PERFORMANCE

| Unit Model | Motor Speed From Factory |      | Heating Input BTU/hr [kW] | Manufacturer Recommended Air-Flow Range (Min/Max) CFM | Blower Size/ Motor HP [W] # of Speeds  | Motor Speed | CFM [L/s] Air Delivery/RPM/Watts—208 Volts |             |             |             |             |             |            |            |            |  |
|------------|--------------------------|------|---------------------------|---|--|-------------|--|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|--|
|            | Cool                     | Heat |                           |   |  |             | External Static Pressure—Inches W.C. [kPa] |             |             |             |             |             |            |            |            |  |
|            |                          |      |                           |   |  |             | 0.1 [.02]                                  | 0.2 [.05]   | 0.3 [.07]   | 0.4 [.10]   | 0.5 [.12]   | 0.6 [.15]   | 0.7 [.17]  | 0.8 [.20]  |            |  |
| 336        | Low                      | Med  | 80,000 [23.45]            | 1050/1350   | 10x10<br>1/2 HP [373]<br>3 Speed Motor | Low         | CFM  | 1210 [571]  | 1193 [563]  | 1175 [555]  | 1155 [545]  | 1125 [531]  | 1075 [507] | 1015 [479] | 925 [437]  |  |
|            |                          |      | Watts                     |   |  |             | 450  | 400         | 395         | 385         | 380         | 375         | 370        | 360        |            |  |
|            |                          |      | CFM                       |   |  |             | 1515 [715]                                 | 1500 [708]  | 1475 [696]  | 1450 [684]  | 1405 [663]  | 1350 [637]  | 1275 [602] | 1180 [557] |            |  |
| 342        | Med                      | Med  | 120,000 [35.17]           | 1225/1575   | 10x10<br>1/2 HP [373]<br>3 Speed Motor | Med         | CFM  | 1680 [793]  | 1650 [779]  | 1625 [767]  | 1580 [746]  | 1530 [722]  | 1460 [689] | 1390 [656] | 1280 [604] |  |
|            |                          |      | Watts                     |   |  |             | 650  | 640         | 630         | 610         | 580         | 560         | 545        | 515        |            |  |
|            |                          |      | CFM                       |   |  |             | 1210 [571]                                 | 1193 [563]  | 1175 [555]  | 1155 [545]  | 1125 [531]  | 1075 [507]  | 1015 [479] | 925 [437]  |            |  |
| 348        | Med                      | High | 100,000 [29.31]           | 1400/1800   | 10x10<br>1/2 HP [373]<br>3 Speed Motor | High        | CFM  | 1680 [793]  | 1650 [779]  | 1625 [767]  | 1580 [746]  | 1530 [722]  | 1460 [689] | 1390 [656] | 1280 [604] |  |
|            |                          |      | Watts                     |   |  |             | 650  | 640         | 630         | 610         | 580         | 560         | 545        | 515        |            |  |
|            |                          |      | CFM                       |   |  |             | 1210 [571]                                 | 1193 [563]  | 1175 [555]  | 1155 [545]  | 1125 [531]  | 1075 [507]  | 1015 [479] | 925 [437]  |            |  |
| 360        | Med                      | High | 135,000 [39.56]           | 1750/2250   | 10x10<br>1 HP [745]<br>3 Speed Motor   | High        | CFM  | 1575 [743]  | 1536 [725]  | 1496 [706]  | 1457 [688]  | 1417 [669]  | 1377 [650] | 1338 [631] | 1298 [613] |  |
|            |                          |      | Watts                     |   |  |             | 297  | 314         | 330         | 347         | 364         | 381         | 397        | 414        |            |  |
|            |                          |      | CFM                       |   |  |             | 1985 [937]                                 | 1954 [922]  | 1919 [906]  | 1876 [885]  | 1824 [861]  | 1759 [830]  | 1679 [792] | 1581 [746] |            |  |
|            |                          | High | 135,000 [39.56]           |   |  | High        | CFM  | 2431 [1147] | 2372 [1119] | 2306 [1088] | 2228 [1051] | 2138 [1009] | 2032 [959] | 1907 [900] | 1762 [832] |  |
|            |                          |      | Watts                     |   |  |             | 970  | 981         | 964         | 926         | 872         | 806         | 736        | 665        |            |  |
|            |                          |      | CFM                       |   |  |             | 1575 [743]                                 | 1536 [725]  | 1496 [706]  | 1457 [688]  | 1417 [669]  | 1377 [650]  | 1338 [631] | 1298 [613] |            |  |

[ ] Designates Metric Conversions

# AIRFLOW PERFORMANCE—DIRECT DRIVE TZCGE-3 SERIES

## DIRECT-DRIVE 230 AIRFLOW PERFORMANCE

| Unit Model | Motor Speed From Factory |       | Heating Input<br>BTU/hr<br>[kW] | Manufacturer<br>Recommended<br>Air-Flow Range<br>(Min/Max) CFM | Blower Size/<br>Motor<br>HP [w]<br># of Speeds | Motor<br>Speed | CFM [L/s] Air Delivery/RPM/Watts—230 Volts |             |             |             |             |             |            |            |            |  |
|------------|--------------------------|-------|---------------------------------|--|--|----------------|--|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|--|
|            | Cool                     | Heat  |                                 |  |  |                | External Static Pressure—Inches W.C. [kPa] |             |             |             |             |             |            |            |            |  |
|            |                          |       |                                 |  |  |                | 0.1 [L02]                                  | 0.2 [L05]   | 0.3 [L07]   | 0.4 [L10]   | 0.5 [L12]   | 0.6 [L15]   | 0.7 [L17]  | 0.8 [L20]  |            |  |
| 336        | Low                      | Low   | 80,000<br>[23.45]               | 1050/1350  | 10x10<br>1/2 HP [373]<br>3 Speed Motor         | Low            | CFM  | 1400 [661]  | 1375 [649]  | 1360 [642]  | 1335 [630]  | 1305 [616]  | 1255 [592] | 1210 [571] | 1100 [519] |  |
|            |                          | Watts | 470                             |  |  |                | 460  | 455         | 450         | 440         | 435         | 425         | 410        |            |            |  |
|            |                          | Med   | 120,000<br>[35.17]              |  |  |                | CFM  | 1685 [795]  | 1620 [765]  | 1580 [746]  | 1550 [732]  | 1500 [708]  | 1430 [675] | 1350 [637] | 1230 [580] |  |
| 342        | Med                      | Low   | 80,000<br>[23.45]               | 1225/1575  | 10x10<br>1/2 HP [373]<br>3 Speed Motor         | Med            | CFM  | 1400 [661]  | 1375 [649]  | 1360 [642]  | 1335 [630]  | 1305 [616]  | 1255 [592] | 1210 [571] | 1100 [519] |  |
|            |                          | Watts | 470                             |  |  |                | 460  | 455         | 450         | 440         | 435         | 425         | 410        |            |            |  |
|            |                          | Med   | 120,000<br>[35.17]              |  |  |                | CFM  | 1685 [795]  | 1620 [765]  | 1580 [746]  | 1550 [732]  | 1500 [708]  | 1430 [675] | 1350 [637] | 1230 [580] |  |
| 348        | Med                      | High  | 135,000<br>[39.56]              | 1400/1800  | 10x10<br>1/2 HP [373]<br>3 Speed Motor         | High           | CFM  | 1870 [883]  | 1830 [864]  | 1790 [845]  | 1730 [816]  | 1660 [783]  | 1580 [746] | 1500 [708] | 1375 [649] |  |
|            |                          | Watts | 780                             |  |  |                | 760  | 740         | 700         | 660         | 635         | 600         | 555        |            |            |  |
|            |                          | Low   | 80,000<br>[23.45]               |  |  |                | CFM  | 1400 [661]  | 1375 [649]  | 1360 [642]  | 1335 [630]  | 1305 [616]  | 1255 [592] | 1210 [571] | 1100 [519] |  |
| 360        | Med                      | Low   | 100,000<br>[29.31]              | 1750/2250  | 10x10<br>1 HP [745]<br>3 Speed Motor           | Low            | CFM  | 1685 [795]  | 1620 [765]  | 1580 [746]  | 1550 [732]  | 1500 [708]  | 1430 [675] | 1350 [637] | 1230 [580] |  |
|            |                          | Watts | 635                             |  |  |                | 600  | 580         | 570         | 550         | 535         | 505         | 475        |            |            |  |
|            |                          | High  | 135,000<br>[39.56]              |  |  |                | CFM  | 1870 [883]  | 1830 [864]  | 1790 [845]  | 1730 [816]  | 1660 [783]  | 1580 [746] | 1500 [708] | 1375 [649] |  |
| 360        | Med                      | Low   | 100,000<br>[29.31]              | 1750/2250  | 10x10<br>1 HP [745]<br>3 Speed Motor           | Med            | CFM  | 1575 [743]  | 1536 [725]  | 1496 [706]  | 1457 [688]  | 1417 [669]  | 1377 [650] | 1338 [631] | 1298 [613] |  |
|            |                          | Watts | 297                             |  |  |                | 314  | 330         | 347         | 364         | 381         | 397         | 414        |            |            |  |
|            |                          | High  | 135,000<br>[39.56]              |  |  |                | CFM  | 1985 [937]  | 1954 [922]  | 1919 [906]  | 1876 [885]  | 1824 [861]  | 1759 [830] | 1679 [792] | 1581 [746] |  |
| 360        | Med                      | High  | 135,000<br>[39.56]              | 1750/2250  | 10x10<br>1 HP [745]<br>3 Speed Motor           | High           | CFM  | 2431 [1147] | 2372 [1119] | 2306 [1088] | 2228 [1051] | 2138 [1009] | 2032 [959] | 1907 [900] | 1762 [832] |  |
|            |                          | Watts | 970                             |  |  |                | 981  | 964         | 926         | 872         | 806         | 736         | 665        |            |            |  |

[ ] Designates Metric Conversions



## DIRECT-DRIVE 460 AIRFLOW PERFORMANCE

| Unit Model | Motor Speed From Factory |         | Heating Input<br>BTU/hr<br>[kW] | Manufacturer<br>Recommended<br>Air-Flow Range<br>(Min/Max) CFM | Blower Size/<br>Motor<br>HP [w]<br># of Speeds | Motor<br>Speed                         | CFM [L/s] Air Delivery/RPM/Watts—460 Volts |            |            |            |            |            |            |            |            |            |
|------------|--------------------------|---------|---------------------------------|--|--|--|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|            | Cool                     | Heat    |                                 |  |  |  | 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] |            |            |
| 336        | Low                      |         | 80,000                          | 1050/1350  | 10x10<br>1/2 HP [373]<br>3 Speed Motor         | Low                                    | CFM  | 1400 [661] | 1375 [649] | 1360 [642] | 1335 [630] | 1305 [616] | 1255 [592] | 1210 [571] | 1100 [519] |            |
|            |                          |         | Watts                           |  |  |  | 470  | 460        | 455        | 450        | 440        | 435        | 425        | 410        |            |            |
|            |                          |         | CFM                             |  |  |  | 1685 [795]                                 | 1620 [765] | 1580 [746] | 1550 [732] | 1500 [708] | 1430 [675] | 1350 [637] | 1230 [580] |            |            |
|            | High                     |         | 120,000                         | 1050/1350  |  | 10x10<br>1/2 HP [373]<br>3 Speed Motor | Med  | CFM        | 635        | 600        | 580        | 570        | 550        | 535        | 505        | 475        |
|            |                          |         | Watts                           |  |  |  |  | 780 [883]  | 1830 [864] | 1790 [845] | 1730 [816] | 1660 [783] | 1580 [746] | 1500 [708] | 1375 [649] |            |
|            |                          |         | CFM                             |  |  |  |  | 1870 [883] | 1830 [864] | 1790 [845] | 1730 [816] | 1660 [783] | 1580 [746] | 1500 [708] | 1375 [649] |            |
| 342        | Med                      |         | 80,000                          | 1225/1575  | 10x10<br>1/2 HP [373]<br>3 Speed Motor         |  | High                                       | CFM        | 1400 [661] | 1375 [649] | 1360 [642] | 1335 [630] | 1305 [616] | 1255 [592] | 1210 [571] | 1100 [519] |
|            |                          |         | Watts                           |  |  |  |  | 470        | 460        | 455        | 440        | 435        | 425        | 410        |            |            |
|            |                          |         | CFM                             |  |  |  |  | 1685 [795] | 1620 [765] | 1580 [746] | 1550 [732] | 1500 [708] | 1430 [675] | 1350 [637] | 1230 [580] |            |
|            | High                     |         | 100,000                         | 1400/1800  |  | 10x10<br>1/2 HP [373]<br>3 Speed Motor | Med  | CFM        | 780        | 760        | 740        | 700        | 660        | 635        | 600        | 555        |
|            |                          |         | Watts                           |  |  |  |  | 780        | 760        | 740        | 700        | 660        | 635        | 600        | 555        |            |
|            |                          |         | CFM                             |  |  |  |  | 1400 [661] | 1375 [649] | 1360 [642] | 1335 [630] | 1305 [616] | 1255 [592] | 1210 [571] | 1100 [519] |            |
| High       |                          | 120,000 | 1400/1800                       | 10x10<br>1/2 HP [373]<br>3 Speed Motor                         | High   |  | CFM  | 1870 [883] | 1830 [864] | 1790 [845] | 1730 [816] | 1660 [783] | 1580 [746] | 1500 [708] | 1375 [649] |            |
|            |                          | Watts   |                                 |  |  |  | 780  | 760        | 740        | 700        | 660        | 635        | 600        | 555        |            |            |
|            |                          | CFM     |                                 |  |  |  | 1400 [661]                                 | 1375 [649] | 1360 [642] | 1335 [630] | 1305 [616] | 1255 [592] | 1210 [571] | 1100 [519] |            |            |
| High       |                          | 135,000 | 1400/1800                       |  | 10x10<br>1/2 HP [373]<br>3 Speed Motor         | High                                   | CFM  | 1685 [795] | 1620 [765] | 1580 [746] | 1550 [732] | 1500 [708] | 1430 [675] | 1350 [637] | 1230 [580] |            |
|            |                          | Watts   |                                 |  |  |  | 635  | 600        | 580        | 570        | 550        | 535        | 505        | 475        |            |            |
|            |                          | CFM     |                                 |  |  |  | 1870 [883]                                 | 1830 [864] | 1790 [845] | 1730 [816] | 1660 [783] | 1580 [746] | 1500 [708] | 1375 [649] |            |            |
| High       |                          | 139,561 | 1400/1800                       | 10x10<br>1/2 HP [373]<br>3 Speed Motor                         |  | High                                   | CFM  | 780        | 760        | 740        | 700        | 660        | 635        | 600        | 555        |            |
|            |                          | Watts   |                                 |  |  |  | 780  | 760        | 740        | 700        | 660        | 635        | 600        | 555        |            |            |
|            |                          | CFM     |                                 |  |  |  | 1400 [661]                                 | 1375 [649] | 1360 [642] | 1335 [630] | 1305 [616] | 1255 [592] | 1210 [571] | 1100 [519] |            |            |

[ ] Designates Metric Conversions

## AIRFLOW PERFORMANCE—3 TON [10.55 kW] GAS HEAT MODELS BELT DRIVE

| Air Flow<br>CFM [L/s]         |  | External Static Pressure—Inches of Water [kPa] |     |           |     |           |     |           |     |           |     |           |     |           |      |           |      |           |      |           |      |           |      |           |      |           |      |           |      |           |      |     |
|-------------------------------|--|--|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----|
|                               |  | 0.1 [.02]                                      |     | 0.2 [.05] |     | 0.3 [.07] |     | 0.4 [.10] |     | 0.5 [.12] |     | 0.6 [.15] |     | 0.7 [.17] |      | 0.8 [.20] |      | 0.9 [.22] |      | 1.0 [.25] |      | 1.1 [.27] |      | 1.2 [.30] |      | 1.3 [.32] |      | 1.4 [.35] |      | 1.5 [.37] |      |     |
| Capacity<br>Voltage           |  | RPM  | W   | RPM       | W   | RPM       | W   | RPM       | W   | RPM       | W   | RPM       | W   | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    |           |      |     |
| 3 Ton [10.55 kW]—13 & 14 SEER |  | 900 [425]                                      | —   | —         | —   | 650       | 230 | 715       | 260 | 780       | 290 | 845       | 340 | 905       | 400  | 960       | 455  | 1010      | 470  | 1055      | 490  | 1095      | 525  | 1140      | 555  | 1170      | 580  | 1215      | 625  | 1240      | 645  |     |
| 208/230-460—3 Phase           |  | 1000 [472]                                     | —   | 615       | 225 | 670       | 255 | 740       | 280 | 800       | 320 | 860       | 375 | 925       | 425  | 980       | 470  | 1025      | 485  | 1075      | 515  | 1105      | 540  | 1155      | 575  | 1180      | 605  | 1225      | 650  | 1260      | 715  |     |
|                               |  | 1100 [519]                                     | —   | 630       | 255 | 700       | 275 | 760       | 310 | 820       | 345 | 885       | 390 | 940       | 435  | 995       | 485  | 1035      | 505  | 1085      | 540  | 1120      | 575  | 1170      | 615  | 1190      | 640  | 1235      | 690  | 1270      | 730  |     |
|                               |  | 1200 [566]                                     | 605 | 250       | 655 | 270       | 720 | 305       | 775 | 340       | 835 | 370       | 900 | 415       | 955  | 475       | 1005 | 495       | 1045 | 540       | 1095 | 580       | 1130 | 605       | 1180 | 655       | 1210 | 690       | 1230 | 780       | 825  |     |
|                               |  | 1300 [614]                                     | 620 | 275       | 675 | 300       | 750 | 340       | 805 | 375       | 855 | 400       | 920 | 455       | 970  | 505       | 1025 | 530       | 1060 | 575       | 1115 | 610       | 1155 | 630       | 1195 | 680       | 1220 | 730       | 1255 | 780       | 1300 | 825 |
|                               |  | 1400 [661]                                     | 640 | 305       | 710 | 340       | 775 | 375       | 825 | 395       | 880 | 440       | 940 | 480       | 990  | 520       | 1035 | 560       | 1080 | 590       | 1125 | 650       | 1170 | 705       | 1215 | 775       | 1230 | 810       | 1270 | 840       | 1320 | 880 |
|                               |  | 1500 [708]                                     | 660 | 340       | 745 | 370       | 800 | 405       | 845 | 425       | 910 | 490       | 955 | 535       | 1005 | 565       | 1050 | 615       | 1090 | 660       | 1135 | 700       | 1185 | 760       | 1225 | 820       | 1240 | 850       | 1290 | 905       | 1330 | 940 |

NOTE: Bold lines separate L, M and N drives respectively.

| Drive Package  | L                        |            |     |     |     |     | M                        |      |      |      |             |      |      |     |
|----------------|--------------------------|------------|-----|-----|-----|-----|--------------------------|------|------|------|-------------|------|------|-----|
|                | 1/2 [373]                |            |     |     |     |     | 1/2 [373]                |      |      |      |             |      |      |     |
| Motor H.P. [W] | 6.9" Pitch Diameter      |            |     |     |     |     | 6.4" Pitch Diameter      |      |      |      |             |      |      |     |
| Blower Sheave  | 2.4"-3.4" Pitch Diameter |            |     |     |     |     | 3.4"-4.4" Pitch Diameter |      |      |      |             |      |      |     |
| Turns Open     | 0                        | 1          | 2   | 3   | 4   | 5   | 6                        | 0    | 1    | 2    | 3           | 4    | 5    | 6   |
| RPM            | 920                      | <b>855</b> | 800 | 750 | 705 | 665 | 605                      | 1230 | 1180 | 1130 | <b>1090</b> | 1045 | 1000 | 940 |

NOTE: Factory sheave settings are shown in bold print.

## COMPONENT AIR RESISTANCE

| Component                        | Standard Indoor Airflow—CFM [L/s] |            |            |            |            |            |             |             |             |             |                               |  |  |  |  |  |
|----------------------------------|-----------------------------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------------------------|--|--|--|--|--|
|                                  | 1000 [472]                        | 1200 [566] | 1400 [661] | 1600 [755] | 1800 [850] | 2000 [944] | 2200 [1038] | 2400 [1133] | 2600 [1227] | 2800 [1321] | Resistance—Inches Water [kPa] |  |  |  |  |  |
| Wet Coil                         | .035                              | .040       | .060       | .070       | .085       | .100       | .110        | .120        | .125        | .130        |                               |  |  |  |  |  |
| Downflow                         | .055                              | .060       | .066       | .072       | .080       | .086       | .093        | .100        | .107        | .115        |                               |  |  |  |  |  |
| R.S.I. Economizer<br>R.A. Damper | .05                               | .06        | .07        | .08        | .09        | .10        | .11         | .12         | .13         | .15         |                               |  |  |  |  |  |

**NOTES:**

1. Performance shown with dry coil & standard 1" [25.4 mm] filters
2. Standard CFM @ .075 lbs./cu. ft.
3. Motor efficiency = 80% on 208/230, 460, 575 V, 3-Phase  
Motor efficiency = 50% on 208/230 V, 1-Phase
4. BHP =  $\frac{\text{Watts} \times \text{Motor Eff.}}{746}$
5. Add component resistance to duct static to determine total E.S.P.

[ ] Designates Metric Conversions

## AIRFLOW PERFORMANCE—3.5 TON [12.31 kW] BELT DRIVE

| Air Flow CFM [L/s] |     | External Static Pressure—Inches of Water [kPa] |     |           |     |           |     |           |     |           |      |           |      |           |      |           |      |           |      |           |      |           |      |           |      |           |      |           |      |           |      |      |     |
|--------------------|-----|--|-----|-----------|-----|-----------|-----|-----------|-----|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|------|-----|
|                    |     | 0.1 [.02]                                      |     | 0.2 [.05] |     | 0.3 [.07] |     | 0.4 [.10] |     | 0.5 [.12] |      | 0.6 [.15] |      | 0.7 [.17] |      | 0.8 [.20] |      | 0.9 [.22] |      | 1.0 [.25] |      | 1.1 [.27] |      | 1.2 [.30] |      | 1.3 [.32] |      | 1.4 [.35] |      | 1.5 [.37] |      |      |     |
|                    |     | RPM  | W   | RPM       | W   | RPM       | W   | RPM       | W   | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    |           |      |      |     |
| 1000 [425]         | —   | —  | —   | —         | —   | —         | —   | 735       | 305 | 790       | 325  | 850       | 360  | 895       | 380  | 945       | 400  | 995       | 420  | 1060      | 455  | 1105      | 490  | 1145      | 520  | 1185      | 550  | 1220      | 590  | 1265      | 630  |      |     |
| 1100 [519]         | —   | —  | —   | —         | —   | —         | —   | 750       | 320 | 810       | 355  | 870       | 380  | 915       | 400  | 965       | 415  | 1010      | 450  | 1075      | 500  | 1120      | 520  | 1160      | 560  | 1195      | 590  | 1240      | 640  | 1275      | 700  |      |     |
| 1200 [566]         | —   | —  | —   | —         | —   | 725       | 335 | 770       | 350 | 835       | 380  | 885       | 410  | 935       | 440  | 985       | 450  | 1030      | 500  | 1090      | 540  | 1130      | 560  | 1170      | 600  | 1215      | 650  | 1255      | 710  | 1290      | 760  |      |     |
| 1300 [614]         | —   | —  | —   | —         | —   | 745       | 360 | 800       | 395 | 860       | 415  | 905       | 445  | 955       | 465  | 1005      | 510  | 1050      | 550  | 1105      | 590  | 1140      | 610  | 1180      | 650  | 1230      | 710  | 1270      | 790  | 1305      | 815  |      |     |
| 1400 [661]         | —   | —  | —   | —         | —   | 725       | 375 | 765       | 395 | 830       | 420  | 880       | 460  | 925       | 490  | 985       | 510  | 1015      | 560  | 1065      | 600  | 1120      | 640  | 1150      | 665  | 1190      | 710  | 1245      | 790  | 1290      | 850  | 1325 | 900 |
| 1500 [708]         | —   | —  | —   | —         | —   | 740       | 410 | 795       | 440 | 855       | 460  | 905       | 495  | 950       | 540  | 1000      | 590  | 1030      | 610  | 1090      | 650  | 1135      | 690  | 1170      | 720  | 1205      | 765  | 1260      | 860  | 1310      | 920  | 1335 | 980 |
| 1600 [755]         | 725 | 410  | 765 | 445       | 820 | 470       | 875 | 510       | 925 | 540       | 975  | 570       | 1015 | 640       | 1055 | 660       | 1105 | 700       | 1145 | 745       | 1185 | 800       | 1225 | 860       | 1275 | 860       | 1275 | 915       | 1325 | 1005      | 1350 | 1040 |     |
| 1700 [802]         | 740 | 460  | 795 | 495       | 850 | 520       | 900 | 550       | 945 | 600       | 1000 | 605       | 1020 | 690       | 1125 | 740       | 1125 | 760       | 1165 | 810       | 1205 | 865       | 1240 | 940       | 1290 | 1005      | 1005 | 1030      | 1030 | 1030      | 1030 | 1030 |     |
| 1800 [850]         | 770 | 500  | 825 | 535       | 875 | 570       | 925 | 605       | 980 | 650       | 1010 | 710       | 1045 | 750       | 1100 | 790       | 1145 | 835       | 1185 | 900       | 1225 | 960       | 1270 | 1020      | 1020 | 1020      | 1020 | 1020      | 1020 | 1020      | 1020 | 1020 |     |

NOTE: Bold lines separate L, M and N drives respectively.

| Drive Package  | L                        |     |            |     |     |     | M                        |      |      |             |      |      |      |      |
|----------------|--------------------------|-----|------------|-----|-----|-----|--------------------------|------|------|-------------|------|------|------|------|
|                | 1/2 [373]                |     |            |     |     |     | 1/2 [373]                |      |      |             |      |      |      |      |
| Motor H.P. [W] | 6.9" Pitch Diameter      |     |            |     |     |     | 6.4" Pitch Diameter      |      |      |             |      |      |      |      |
| Blower Sheave  | 2.8"-3.8" Pitch Diameter |     |            |     |     |     | 4.0"-5.0" Pitch Diameter |      |      |             |      |      |      |      |
| Turns Open     | 0                        | 1   | 2          | 3   | 4   | 5   | 6                        | 0    | 1    | 2           | 3    | 4    | 5    | 6    |
| RPM            | 958                      | 945 | <b>905</b> | 865 | 820 | 770 | 725                      | 1225 | 1185 | <b>1145</b> | 1100 | 1060 | 1020 | 1000 |

NOTE: Factory sheave settings are shown in bold print.

|                                     |
|-------------------------------------|
| N Drive (Field Supplied)            |
| Blower Sheave—6.4 Pitch Diameter    |
| Motor Sheave—4.0-5.0 Pitch Diameter |
| RPM Range—1090-1365                 |
| Motor—1/2 H.P. [373 W]—1750 RPM     |

## AIRFLOW PERFORMANCE—4 TON [14.07 kW] BELT DRIVE

| Air Flow CFM [L/s] |     | External Static Pressure—Inches of Water [kPa] |     |           |     |           |     |           |      |           |      |           |      |           |      |           |      |           |      |           |      |           |      |           |      |           |      |           |      |           |      |      |      |
|--------------------|-----|--|-----|-----------|-----|-----------|-----|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|------|------|
|                    |     | 0.1 [.02]                                      |     | 0.2 [.05] |     | 0.3 [.07] |     | 0.4 [.10] |      | 0.5 [.12] |      | 0.6 [.15] |      | 0.7 [.17] |      | 0.8 [.20] |      | 0.9 [.22] |      | 1.0 [.25] |      | 1.1 [.27] |      | 1.2 [.30] |      | 1.3 [.32] |      | 1.4 [.35] |      | 1.5 [.37] |      |      |      |
|                    |     | RPM  | W   | RPM       | W   | RPM       | W   | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    | RPM       | W    |           |      |      |      |
| 1200 [566]         | —   | —  | —   | —         | —   | —         | —   | 780       | 360  | 835       | 390  | 885       | 410  | 935       | 440  | 975       | 475  | 1015      | 505  | 1070      | 550  | 1120      | 570  | 1170      | 600  | 1220      | 635  | 1265      | 655  | 1320      | 705  |      |      |
| 1300 [614]         | —   | —  | —   | —         | —   | —         | —   | 805       | 390  | 855       | 410  | 910       | 450  | 950       | 470  | 990       | 510  | 1030      | 545  | 1085      | 590  | 1135      | 610  | 1185      | 640  | 1235      | 685  | 1285      | 730  | 1335      | 775  |      |      |
| 1400 [661]         | —   | —  | —   | —         | —   | —         | —   | 770       | 385  | 825       | 425  | 870       | 445  | 925       | 480  | 960       | 510  | 1010      | 550  | 1050      | 600  | 1105      | 615  | 1155      | 650  | 1200      | 700  | 1245      | 730  | 1300      | 1345 | 825  |      |
| 1500 [708]         | —   | —  | —   | —         | —   | —         | —   | 790       | 425  | 850       | 475  | 900       | 490  | 940       | 515  | 980       | 550  | 1025      | 600  | 1075      | 640  | 1125      | 670  | 1175      | 700  | 1220      | 745  | 780       | 1315 | 825       | 1355 | 855  |      |
| 1600 [755]         | —   | —  | —   | —         | —   | —         | —   | 775       | 425  | 815       | 455  | 870       | 495  | 920       | 530  | 960       | 560  | 1005      | 605  | 1050      | 680  | 1145      | 710  | 1195      | 755  | 1235      | 800  | 1285      | 845  | 1330      | 890  | 1370 | 935  |
| 1700 [802]         | —   | —  | —   | —         | —   | —         | —   | 795       | 470  | 850       | 505  | 900       | 540  | 940       | 560  | 980       | 605  | 1025      | 655  | 1075      | 715  | 1120      | 735  | 1165      | 770  | 1215      | 810  | 1270      | 870  | 1305      | 915  | 1350 | 1000 |
| 1800 [850]         | 775 | 470  | 820 | 515       | 875 | 555       | 930 | 600       | 960  | 625       | 1010 | 680       | 1050 | 740       | 1100 | 760       | 1150 | 800       | 1190 | 840       | 1235 | 890       | 1280 | 930       | 1320 | 985       | 1365 | 1020      | 1020 | 1020      | 1020 | 1020 |      |
| 1900 [897]         | 800 | 525  | 855 | 560       | 910 | 610       | 965 | 650       | 995  | 700       | 1035 | 755       | 1075 | 800       | 1130 | 840       | 1175 | 870       | 1220 | 920       | 920  | 1260      | 955  | 1305      | 1010 | 1350      | 1070 | 1385      | 1115 | —         | —    | —    |      |
| 2000 [944]         | 830 | 595  | 885 | 640       | 940 | 670       | 970 | 710       | 1020 | 790       | 1065 | 840       | 1115 | 860       | 1160 | 900       | 1200 | 950       | 1240 | 1010      | 1295 | 1060      | 1330 | 1105      | 1375 | 1160      | —    | —         | —    | —         | —    | —    |      |

NOTE: L-Drive left of bold line, M-Drive right of bold line.

| Drive Package  | L                        |      |     |            |     |     | M                        |      |      |      |      |             |      |      |
|----------------|--------------------------|------|-----|------------|-----|-----|--------------------------|------|------|------|------|-------------|------|------|
|                | 1/2 [373]                |      |     |            |     |     | 3/4 [559]                |      |      |      |      |             |      |      |
| Motor H.P. [W] | 6.4" Pitch Diameter      |      |     |            |     |     | 5.7" Pitch Diameter      |      |      |      |      |             |      |      |
| Blower Sheave  | 2.8"-3.8" Pitch Diameter |      |     |            |     |     | 3.4"-4.4" Pitch Diameter |      |      |      |      |             |      |      |
| Turns Open     | 0                        | 1    | 2   | 3          | 4   | 5   | 6                        | 0    | 1    | 2    | 3    | 4           | 5    | 6    |
| RPM            | 1060                     | 1000 | 955 | <b>910</b> | 865 | 825 | 770                      | 1385 | 1330 | 1280 | 1225 | <b>1175</b> | 1120 | 1060 |

NOTE: Factory sheave settings are shown in bold print.

[ ] Designates Metric Conversions

# AIRFLOW PERFORMANCE—TZCGE-3 SERIES

## AIRFLOW PERFORMANCE—5 TON [17.6 kW] THREE PHASE BELT DRIVE

| Air Flow<br>CFM [L/s] | Capacity 5 Ton [17.6 kW]—13 SEER |     | External Static Pressure—Inches of Water [kPa] |     |            |      |            |      |            |      |            |      |            |      |            |      |            |      |            |      |            |      |            |      |            |      |            |      |            |      |            |     |   |
|-----------------------|----------------------------------|-----|--|-----|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|-----|---|
|                       | Voltage 208/230-460—3 Phase      |     | 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] |      | 1.1 [0.27] |      | 1.2 [0.30] |      | 1.3 [0.32] |      | 1.4 [0.35] |      | 1.5 [0.37] |     |   |
|                       | RPM                              | W   | RPM  | W   | RPM        | W    | RPM        | W    | RPM        | W    | RPM        | W    | RPM        | W    | RPM        | W    | RPM        | W    | RPM        | W    | RPM        | W    | RPM        | W    | RPM        | W    | RPM        | W    | RPM        | W    |            |     |   |
| 1400 [661]            | —                                | —   | —  | —   | 780        | 370  | 815        | 385  | 875        | 425  | 930        | 460  | 970        | 490  | 1030       | 540  | 1065       | 570  | 1105       | 595  | 1150       | 615  | 1195       | 645  | 1235       | 660  | 1275       | 680  | 1315       | 705  | 1355       | 745 |   |
| 1500 [708]            | —                                | —   | —  | —   | 795        | 405  | 840        | 415  | 895        | 440  | 945        | 500  | 995        | 540  | 1045       | 595  | 1080       | 615  | 1135       | 650  | 1165       | 675  | 1215       | 700  | 1255       | 735  | 1320       | 775  | 1355       | 805  | —          | —   |   |
| 1600 [755]            | —                                | —   | —  | —   | 780        | 390  | 805        | 425  | 870        | 470  | 915        | 510  | 965        | 560  | 1015       | 600  | 1060       | 640  | 1105       | 680  | 1145       | 705  | 1180       | 730  | 1225       | 750  | 1275       | 790  | 1340       | 840  | 1365       | 880 |   |
| 1700 [802]            | —                                | —   | —  | —   | 795        | 450  | 840        | 490  | 895        | 530  | 940        | 570  | 990        | 605  | 1035       | 640  | 1075       | 680  | 1120       | 725  | 1160       | 755  | 1200       | 790  | 830        | 855  | 1300       | 855  | 1355       | 905  | 1375       | 940 |   |
| 1800 [850]            | 780                              | 455 | 815  | 470 | 870        | 540  | 915        | 560  | 965        | 615  | 1010       | 660  | 1055       | 710  | 1100       | 760  | 1140       | 785  | 1175       | 810  | 1225       | 850  | 1260       | 880  | 1320       | 930  | 1365       | 985  | 1390       | 1020 | —          | —   |   |
| 1900 [897]            | 800                              | 485 | 850  | 530 | 895        | 590  | 945        | 640  | 995        | 675  | 1035       | 720  | 1070       | 775  | 1120       | 810  | 1160       | 850  | 1200       | 890  | 1245       | 915  | 1290       | 960  | 1335       | 1000 | 1375       | 1050 | 1405       | 1100 | —          | —   |   |
| 2000 [944]            | 830                              | 550 | 880  | 605 | 930        | 655  | 970        | 700  | 1015       | 730  | 1055       | 790  | 1105       | 830  | 1145       | 875  | 1180       | 910  | 1225       | 950  | 1260       | 980  | 1320       | 1035 | 1350       | 1075 | 1385       | 1120 | —          | —    | —          |     |   |
| 2100 [991]            | 860                              | 615 | 915  | 665 | 955        | 705  | 1005       | 760  | 1040       | 820  | 1090       | 870  | 1130       | 910  | 1170       | 950  | 1210       | 995  | 1250       | 1020 | 1290       | 1060 | 1335       | 1100 | 1370       | 1150 | 1400       | 1200 | —          | —    | —          | —   |   |
| 2200 [1038]           | 895                              | 680 | 945  | 735 | 995        | 780  | 1030       | 830  | 1060       | 880  | 1120       | 940  | 1155       | 980  | 1195       | 1020 | 1240       | 1055 | 1275       | 1100 | 1320       | 1140 | 1360       | 1180 | 1385       | 1225 | —          | —    | —          | —    | —          | —   |   |
| 2300 [1085]           | 940                              | 755 | 975  | 795 | 1015       | 830  | 1065       | 910  | 1100       | 965  | 1150       | 105  | 1180       | 1050 | 1225       | 1095 | 1265       | 1125 | 1310       | 1175 | 1350       | 1230 | 1375       | 1260 | 1405       | 1320 | —          | —    | —          | —    | —          | —   |   |
| 2400 [1133]           | 970                              | 825 | 1015   | 880 | 1040       | 925  | 1095       | 1005 | 1145       | 1055 | 1175       | 1085 | 1225       | 1140 | 1260       | 1175 | 1300       | 1210 | 1340       | 1255 | 1370       | 1315 | 1400       | 1375 | —          | —    | —          | —    | —          | —    | —          | —   |   |
| 2500 [1179]           | 1015                             | 910 | 1040   | 935 | 1095       | 1040 | 1145       | 1100 | 1170       | 1140 | 1200       | 1175 | 1260       | 1215 | 1305       | 1270 | 1360       | 1350 | 1400       | 1395 | —          | —    | —          | —    | —          | —    | —          | —    | —          | —    | —          | —   | — |

NOTE: L-Drive left of bold line, M-Drive right of bold line.

| Drive Package  | L                             | M                                  |
|----------------|-------------------------------|------------------------------------|
| Motor H.P. [W] | 3/4 [559]                     | 1 [746]                            |
| Blower Sheave  | 6.4" Pitch Diameter           | 6.4" Pitch Diameter                |
| Motor Sheave   | 2.8"-3.8" Pitch Diameter—Adj. | 3.4"-4.4" Pitch Diameter—Adj.      |
| Turns Open     | 0 1 2 3 4 5 6                 | 0 1 2 3 4 5 6                      |
| RPM            | 1095 1040 995 940 890 835 780 | 1405 1360 1305 1250 1195 1145 1095 |

NOTE: Factory sheave settings are shown in bold print.

[ ] Designates Metric Conversions

# ELECTRICAL DATA—TZCGE-3 SERIES

| ELECTRICAL DATA – TZCGE-3 SERIES |  |            |            |            |            |            |            |            |            |
|----------------------------------|--|------------|------------|------------|------------|------------|------------|------------|------------|
|                                  |  | 336CLD080A | 336CLD120A | 336CLB080A | 336CLB120A | 336DLD080A | 336DLD120A | 336DLB080A | 336DLB120A |
| Unit Information                 | Unit Operating Voltage Range               | 187-253    | 187-253    | 187-253    | 187-253    | 414-506    | 414-506    | 414-506    | 414-506    |
|                                  | Minimum Circuit Ampacity                   | 19/19      | 19/19      | 18/18      | 18/18      | 11         | 11         | 10         | 10         |
|                                  | Minimum Overcurrent Protection Device Size | 25/25      | 25/25      | 20/20      | 20/20      | 15         | 15         | 15         | 15         |
|                                  | Maximum Overcurrent Protection Device Size | 25/25      | 25/25      | 25/25      | 25/25      | 15         | 15         | 15         | 15         |
| Compressor Motor                 | No.  | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
|                                  | Volts                                      | 208/230    | 208/230    | 208/230    | 208/230    | 460        | 460        | 460        | 460        |
|                                  | Phase                                      | 3          | 3          | 3          | 3          | 3          | 3          | 3          | 3          |
|                                  | HP   | 3          | 3          | 3          | 3          | 3          | 3          | 3          | 3          |
|                                  | RPM  | 3450       | 3450       | 3450       | 3450       | 3450       | 3450       | 3450       | 3450       |
|                                  | Amps (FLA)                                 | 10.4/10.4  | 10.4/10.4  | 10.4/10.4  | 10.4/10.4  | 5.8        | 5.8        | 5.8        | 5.8        |
|                                  | Amps (LRA)                                 | 88/88      | 88/88      | 88/88      | 88/88      | 38         | 38         | 38         | 38         |
| Condenser Motor                  | No.  | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
|                                  | Volts                                      | 208/230    | 208/230    | 208/230    | 208/230    | 460        | 460        | 460        | 460        |
|                                  | Phase                                      | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
|                                  | HP   | 1/3        | 1/3        | 1/3        | 1/3        | 1/3        | 1/3        | 1/3        | 1/3        |
|                                  | Amps (FLA)                                 | 1.5        | 1.5        | 1.5        | 1.5        | 1          | 1          | 1          | 1          |
|                                  | Amps (LRA)                                 | 3          | 3          | 3          | 3          | 1.9        | 1.9        | 1.9        | 1.9        |
| Evaporator Fan                   | No.  | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
|                                  | Volts                                      | 208/230    | 208/230    | 208/230    | 208/230    | 460        | 460        | 460        | 460        |
|                                  | Phase                                      | 1          | 1          | 3          | 3          | 1          | 1          | 3          | 3          |
|                                  | HP   | 1/2        | 1/2        | 1/2        | 1/2        | 1/2        | 1/2        | 1/2        | 1/2        |
|                                  | Amps (FLA)                                 | 4          | 4          | 2.8        | 2.8        | 2          | 2          | 1.4        | 1.4        |
|                                  | Amps (LRA)                                 | 6.7        | 6.7        | 11.3       | 11.3       | 3.6        | 3.6        | 6.2        | 6.2        |

1. Horsepower Per Compressor.

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

# ELECTRICAL DATA—TZCGE-3 SERIES

| ELECTRICAL DATA – TZCGE-3 SERIES |  |             |            |             |            |            |            |            |            |
|----------------------------------|--|-------------|------------|-------------|------------|------------|------------|------------|------------|
|                                  |  | 336JLD080AX | 336JLD120A | 336JLD120AX | 342CLD080A | 342CLD120A | 342DLD080A | 342DLD120A | 342JLD080A |
| Unit Information                 | Unit Operating Voltage Range               | 187-253     | 187-253    | 187-253     | 187-253    | 187-253    | 414-506    | 414-506    | 187-253    |
|                                  | Minimum Circuit Ampacity                   | 27/27       | 27/27      | 27/27       | 22/22      | 22/22      | 11         | 11         | 28/28      |
|                                  | Minimum Overcurrent Protection Device Size | 35/35       | 35/35      | 35/35       | 25/25      | 25/25      | 15         | 15         | 35/35      |
|                                  | Maximum Overcurrent Protection Device Size | 40/40       | 40/40      | 40/40       | 30/30      | 30/30      | 15         | 15         | 45/45      |
| Compressor Motor                 | No.  | 1           | 1          | 1           | 1          | 1          | 1          | 1          | 1          |
|                                  | Volts                                      | 208/230     | 208/230    | 208/230     | 208/230    | 208/230    | 460        | 460        | 208/230    |
|                                  | Phase                                      | 1           | 1          | 1           | 3          | 3          | 3          | 3          | 1          |
|                                  | HP   | 3           | 3          | 3           | 3 1/2      | 3 1/2      | 3 1/2      | 3 1/2      | 3 1/2      |
|                                  | RPM  | 3450        | 3450       | 3450        | 3450       | 3450       | 3450       | 3450       | 3450       |
|                                  | Amps (RLA)                                 | 16.7/16.7   | 16.7/16.7  | 16.7/16.7   | 13.5/13.5  | 13.5/13.5  | 6          | 6          | 17.9/17.9  |
|                                  | Amps (LRA)                                 | 79/79       | 79/79      | 79/79       | 88/88      | 88/88      | 44         | 44         | 112/112    |
| Condenser Motor                  | No.  | 1           | 1          | 1           | 1          | 1          | 1          | 1          | 1          |
|                                  | Volts                                      | 208/230     | 208/230    | 208/230     | 208/230    | 208/230    | 460        | 460        | 208/230    |
|                                  | Phase                                      | 1           | 1          | 1           | 1          | 1          | 1          | 1          | 1          |
|                                  | HP   | 1/3         | 1/3        | 1/3         | 1/3        | 1/3        | 1/3        | 1/3        | 1/3        |
|                                  | Amps (FLA)                                 | 1.5         | 1.5        | 1.5         | 1.5        | 1.5        | 1          | 1          | 1.5        |
|                                  | Amps (LRA)                                 | 3           | 3          | 3           | 3          | 3          | 1.9        | 1.9        | 3          |
|                                  |  |             |            |             |            |            |            |            |            |
| Evaporator Fan                   | No.  | 1           | 1          | 1           | 1          | 1          | 1          | 1          | 1          |
|                                  | Volts                                      | 208/230     | 208/230    | 208/230     | 208/230    | 208/230    | 460        | 460        | 208/230    |
|                                  | Phase                                      | 1           | 1          | 1           | 3          | 3          | 1          | 1          | 1          |
|                                  | HP   | 1/2         | 1/2        | 1/2         | 1/2        | 1/2        | 1/2        | 1/2        | 1/2        |
|                                  | Amps (FLA)                                 | 4           | 4          | 4           | 2.8        | 2.8        | 2          | 2          | 4          |
|                                  | Amps (LRA)                                 | 6.7         | 6.7        | 6.7         | 11.3       | 11.3       | 3.6        | 3.6        | 6.7        |

1. Horsepower Per Compressor.

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

# ELECTRICAL DATA—TZCGE-3 SERIES

| ELECTRICAL DATA – TZCGE-3 SERIES |  |            |            |            |            |            |            |            |            |
|----------------------------------|--|------------|------------|------------|------------|------------|------------|------------|------------|
|                                  |  | 342JLD120A | 348CLD080A | 348CLD100A | 348CLD135A | 348CLB080A | 348CLB100A | 348CLB135A | 348DLD080A |
| Unit Information                 | Unit Operating Voltage Range               | 187-253    | 187-253    | 187-253    | 187-253    | 187-253    | 187-253    | 187-253    | 414-506    |
|                                  | Minimum Circuit Ampacity                   | 28/28      | 23/23      | 23/23      | 23/23      | 23/23      | 23/23      | 23/23      | 11         |
|                                  | Minimum Overcurrent Protection Device Size | 35/35      | 30/30      | 30/30      | 30/30      | 30/30      | 30/30      | 30/30      | 15         |
|                                  | Maximum Overcurrent Protection Device Size | 45/45      | 35/35      | 35/35      | 35/35      | 35/35      | 35/35      | 35/35      | 15         |
| Compressor Motor                 | No.  | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
|                                  | Volts                                      | 208/230    | 208/230    | 208/230    | 208/230    | 208/230    | 208/230    | 208/230    | 460        |
|                                  | Phase                                      | 1          | 3          | 3          | 3          | 3          | 3          | 3          | 3          |
|                                  | HP   | 3 1/2      | 4          | 4          | 4          | 4          | 4          | 4          | 4          |
|                                  | RPM  | 3450       | 3450       | 3450       | 3450       | 3450       | 3450       | 3450       | 3450       |
|                                  | Amps (RLA)                                 | 17.9/17.9  | 13.7/13.7  | 13.7/13.7  | 13.7/13.7  | 13.7/13.7  | 13.7/13.7  | 13.7/13.7  | 6.2        |
|                                  | Amps (LRA)                                 | 112/112    | 83.1/83.1  | 83.1/83.1  | 83.1/83.1  | 83.1/83.1  | 83.1/83.1  | 83.1/83.1  | 41         |
| Condenser Motor                  | No.  | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
|                                  | Volts                                      | 208/230    | 208/230    | 208/230    | 208/230    | 208/230    | 208/230    | 208/230    | 460        |
|                                  | Phase                                      | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
|                                  | HP   | 1/3        | 1/3        | 1/3        | 1/3        | 1/3        | 1/3        | 1/3        | 1/3        |
|                                  | Amps (FLA)                                 | 1.5        | 1.5        | 1.5        | 1.5        | 1.5        | 1.5        | 1.5        | 1          |
|                                  | Amps (LRA)                                 | 3          | 3          | 3          | 3          | 3          | 3          | 3          | 1.9        |
| Evaporator Fan                   | No.  | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1          |
|                                  | Volts                                      | 208/230    | 208/230    | 208/230    | 208/230    | 208/230    | 208/230    | 208/230    | 460        |
|                                  | Phase                                      | 1          | 1          | 1          | 1          | 3          | 3          | 3          | 1          |
|                                  | HP   | 1/2        | 1/2        | 1/2        | 1/2        | 3/4        | 3/4        | 3/4        | 1/2        |
|                                  | Amps (FLA)                                 | 4          | 4          | 4          | 4          | 3.4        | 3.4        | 3.4        | 2          |
|                                  | Amps (LRA)                                 | 6.7        | 6.7        | 6.7        | 6.7        | 16.8       | 16.8       | 16.8       | 3.6        |

1. Horsepower Per Compressor.

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

# ELECTRICAL DATA—TZCGE-3 SERIES

| ELECTRICAL DATA – TZCGE-3 SERIES |  |            |            |            |            |            |            |            |             |
|----------------------------------|--|------------|------------|------------|------------|------------|------------|------------|-------------|
|                                  |  | 348DLD100A | 348DLD135A | 348DLB080A | 348DLB100A | 348DLB135A | 348JLD080A | 348JLD100A | 348JLD100AX |
| Unit Information                 | Unit Operating Voltage Range               | 414-506    | 414-506    | 414-506    | 414-506    | 414-506    | 187-253    | 187-253    | 187-253     |
|                                  | Minimum Circuit Ampacity                   | 11         | 11         | 11         | 11         | 11         | 33/33      | 33/33      | 33/33       |
|                                  | Minimum Overcurrent Protection Device Size | 15         | 15         | 15         | 15         | 15         | 40/40      | 40/40      | 40/40       |
|                                  | Maximum Overcurrent Protection Device Size | 15         | 15         | 15         | 15         | 15         | 50/50      | 50/50      | 50/50       |
| Compressor Motor                 | No.  | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1           |
|                                  | Volts                                      | 460        | 460        | 460        | 460        | 460        | 208/230    | 208/230    | 208/230     |
|                                  | Phase                                      | 3          | 3          | 3          | 3          | 3          | 1          | 1          | 1           |
|                                  | HP   | 4          | 4          | 4          | 4          | 4          | 4          | 4          | 4           |
|                                  | RPM  | 3450       | 3450       | 3450       | 3450       | 3450       | 3450       | 3450       | 3450        |
|                                  | Amps (RLA)                                 | 6.2        | 6.2        | 6.2        | 6.2        | 6.2        | 21.8/21.8  | 21.8/21.8  | 21.8/21.8   |
|                                  | Amps (LRA)                                 | 41         | 41         | 41         | 41         | 41         | 117/117    | 117/117    | 117/117     |
| Condenser Motor                  | No.  | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1           |
|                                  | Volts                                      | 460        | 460        | 460        | 460        | 460        | 208/230    | 208/230    | 208/230     |
|                                  | Phase                                      | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1           |
|                                  | HP   | 1/3        | 1/3        | 1/3        | 1/3        | 1/3        | 1/3        | 1/3        | 1/3         |
|                                  | Amps (FLA)                                 | 1          | 1          | 1          | 1          | 1          | 1.5        | 1.5        | 1.5         |
|                                  | Amps (LRA)                                 | 1.9        | 1.9        | 1.9        | 1.9        | 1.9        | 3          | 3          | 3           |
| Evaporator Fan                   | No.  | 1          | 1          | 1          | 1          | 1          | 1          | 1          | 1           |
|                                  | Volts                                      | 460        | 460        | 460        | 460        | 460        | 208/230    | 208/230    | 208/230     |
|                                  | Phase                                      | 1          | 1          | 3          | 3          | 3          | 1          | 1          | 1           |
|                                  | HP   | 1/2        | 1/2        | 3/4        | 3/4        | 3/4        | 1/2        | 1/2        | 1/2         |
|                                  | Amps (FLA)                                 | 2          | 2          | 1.6        | 1.6        | 1.6        | 4          | 4          | 4           |
|                                  | Amps (LRA)                                 | 3.6        | 3.6        | 8.4        | 8.4        | 8.4        | 6.7        | 6.7        | 6.7         |

1. Horsepower Per Compressor.

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



| ELECTRICAL DATA – TZCGE-3 SERIES |  |            |             |            |            |            |            |            |            |
|----------------------------------|--|------------|-------------|------------|------------|------------|------------|------------|------------|
|                                  |  | 348JLD135A | 348JLD135AX | 360CLD100A | 360CLD135A | 360CLB100A | 360CLB135A | 360DLB100A | 360DLB135A |
| <b>Unit Information</b>          | Unit Operating Voltage Range               | 187-253    | 187-253     | 187-253    | 187-253    | 187-253    | 187-253    | 414-506    | 414-506    |
|                                  | Minimum Circuit Ampacity                   | 33/33      | 33/33       | 30/30      | 30/30      | 26/26      | 26/26      | 13         | 13         |
|                                  | Minimum Overcurrent Protection Device Size | 40/40      | 40/40       | 35/35      | 35/35      | 30/30      | 30/30      | 15         | 15         |
|                                  | Maximum Overcurrent Protection Device Size | 50/50      | 50/50       | 40/40      | 40/40      | 40/40      | 40/40      | 20         | 20         |
| <b>Compressor Motor</b>          | No.  | 1          | 1           | 1          | 1          | 1          | 1          | 1          | 1          |
|                                  | Volts                                      | 208/230    | 208/230     | 208/230    | 208/230    | 208/230    | 208/230    | 460        | 460        |
|                                  | Phase                                      | 1          | 1           | 3          | 3          | 3          | 3          | 3          | 3          |
|                                  | HP   | 4          | 4           | 5          | 5          | 5          | 5          | 5          | 5          |
|                                  | RPM  | 3450       | 3450        | 3450       | 3450       | 3450       | 3450       | 3450       | 3450       |
|                                  | Amps (RLA)                                 | 21.8/21.8  | 21.8/21.8   | 15.6/15.6  | 15.6/15.6  | 15.6/15.6  | 15.6/15.6  | 7.8        | 7.8        |
|                                  | Amps (LRA)                                 | 117/117    | 117/117     | 110/110    | 110/110    | 110/110    | 110/110    | 52         | 52         |
| <b>Condenser Motor</b>           | No.  | 1          | 1           | 1          | 1          | 1          | 1          | 1          | 1          |
|                                  | Volts                                      | 208/230    | 208/230     | 208/230    | 208/230    | 208/230    | 208/230    | 460        | 460        |
|                                  | Phase                                      | 1          | 1           | 1          | 1          | 1          | 1          | 1          | 1          |
|                                  | HP   | 1/3        | 1/3         | 1/3        | 1/3        | 1/3        | 1/3        | 1/3        | 1/3        |
|                                  | Amps (FLA)                                 | 1.5        | 1.5         | 2.2        | 2.2        | 2.2        | 2.2        | 1          | 1          |
|                                  | Amps (LRA)                                 | 3          | 3           | 4.9        | 4.9        | 4.9        | 4.9        | 1.9        | 1.9        |
| <b>Evaporator Fan</b>            | No.  | 1          | 1           | 1          | 1          | 1          | 1          | 1          | 1          |
|                                  | Volts                                      | 208/230    | 208/230     | 208/230    | 208/230    | 208/230    | 208/230    | 460        | 460        |
|                                  | Phase                                      | 1          | 1           | 1          | 1          | 3          | 3          | 3          | 3          |
|                                  | HP   | 1/2        | 1/2         | 1          | 1          | 1          | 1          | 1          | 1          |
|                                  | Amps (FLA)                                 | 4          | 4           | 7.6        | 7.6        | 3.8        | 3.8        | 1.9        | 1.9        |
|                                  | Amps (LRA)                                 | 6.7        | 6.7         | 0          | 0          | 24         | 24         | 12         | 12         |

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

# ELECTRICAL DATA—TZCGE-3 SERIES

| ELECTRICAL DATA – TZCGE-3 SERIES |  |            |             |            |            |
|----------------------------------|--|------------|-------------|------------|------------|
|                                  |  | 360JLD100A | 360JLD100AX | 360JLD135A | 360JLD135A |
| Unit Information                 | Unit Operating Voltage Range               | 187-253    | 187-253     | 187-253    | 187-253    |
|                                  | Minimum Circuit Ampacity                   | 43/43      | 43/43       | 43/43      | 43/43      |
|                                  | Minimum Overcurrent Protection Device Size | 50/50      | 50/50       | 50/50      | 50/50      |
|                                  | Maximum Overcurrent Protection Device Size | 60/60      | 60/60       | 60/60      | 60/60      |
| Compressor Motor                 | No.  | 1          | 1           | 1          | 1          |
|                                  | Volts                                      | 208/230    | 208/230     | 208/230    | 208/230    |
|                                  | Phase                                      | 1          | 1           | 1          | 1          |
|                                  | HP   | 5          | 5           | 5          | 5          |
|                                  | RPM  | 3450       | 3450        | 3450       | 3450       |
|                                  | Amps (RLA)                                 | 26.3/26.3  | 26.3/26.3   | 26.3/26.3  | 26.3/26.3  |
|                                  | Amps (LRA)                                 | 134/134    | 134/134     | 134/134    | 134/134    |
| Condenser Motor                  | No.  | 1          | 1           | 1          | 1          |
|                                  | Volts                                      | 208/230    | 208/230     | 208/230    | 208/230    |
|                                  | Phase                                      | 1          | 1           | 1          | 1          |
|                                  | HP   | 1/3        | 1/3         | 1/3        | 1/3        |
|                                  | Amps (FLA)                                 | 2.2        | 2.2         | 2.2        | 2.2        |
|                                  | Amps (LRA)                                 | 4.9        | 4.9         | 4.9        | 4.9        |
| Evaporator Fan                   | No.  | 1          | 1           | 1          | 1          |
|                                  | Volts                                      | 208/230    | 208/230     | 208/230    | 208/230    |
|                                  | Phase                                      | 1          | 1           | 1          | 1          |
|                                  | HP   | 1          | 1           | 1          | 1          |
|                                  | Amps (FLA)                                 | 7.6        | 7.6         | 7.6        | 7.6        |
|                                  | Amps (LRA)                                 | 0          | 0           | 0          | 0          |

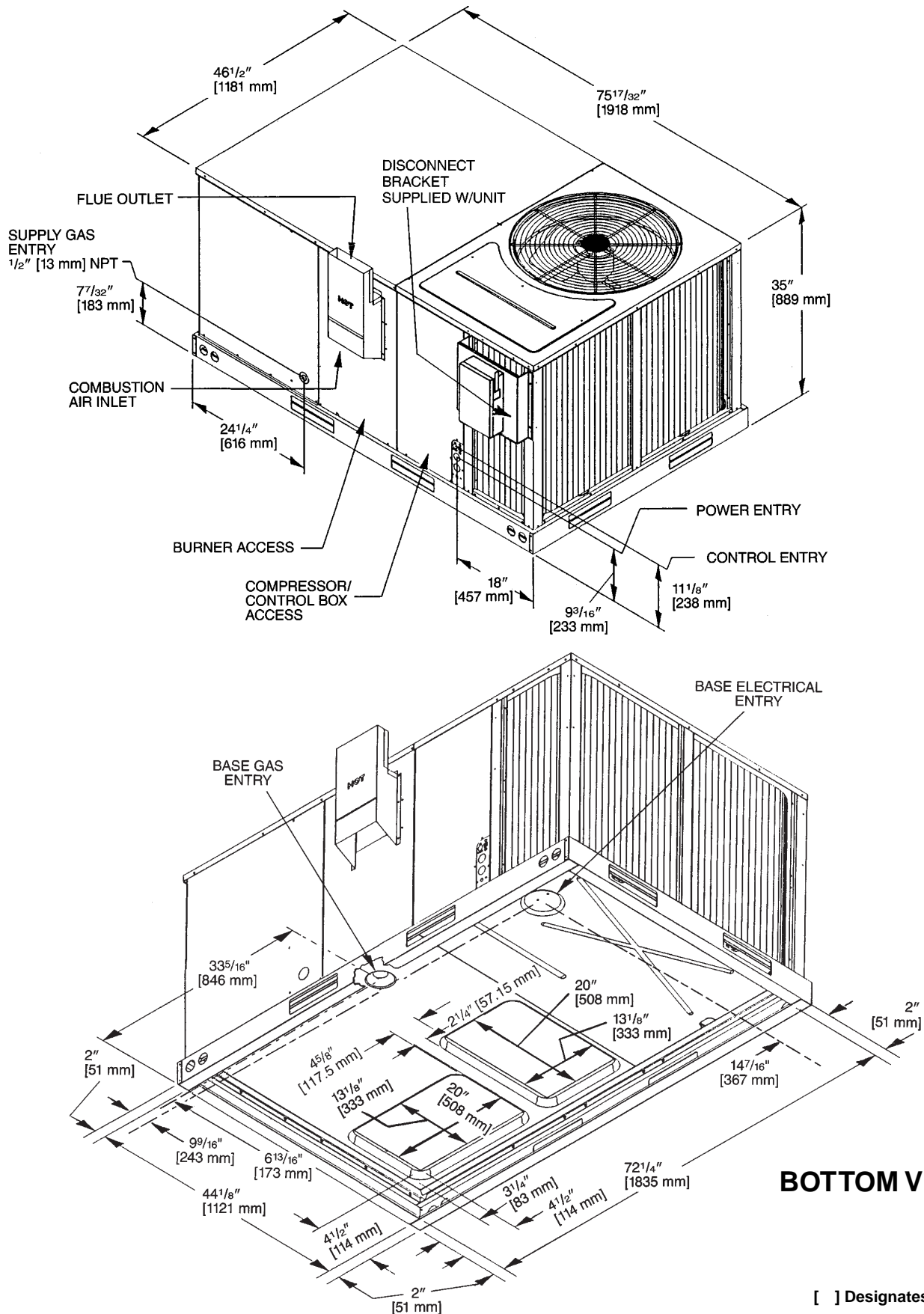
1. Horsepower Per Compressor.

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

# UNIT DIMENSIONS—TZCGE-3 SERIES

## UNIT DIMENSIONS PACKAGE GAS ELECTRIC UNITS

3 TO 5 TON  
[10.6 TO 17.6 kW] MODELS

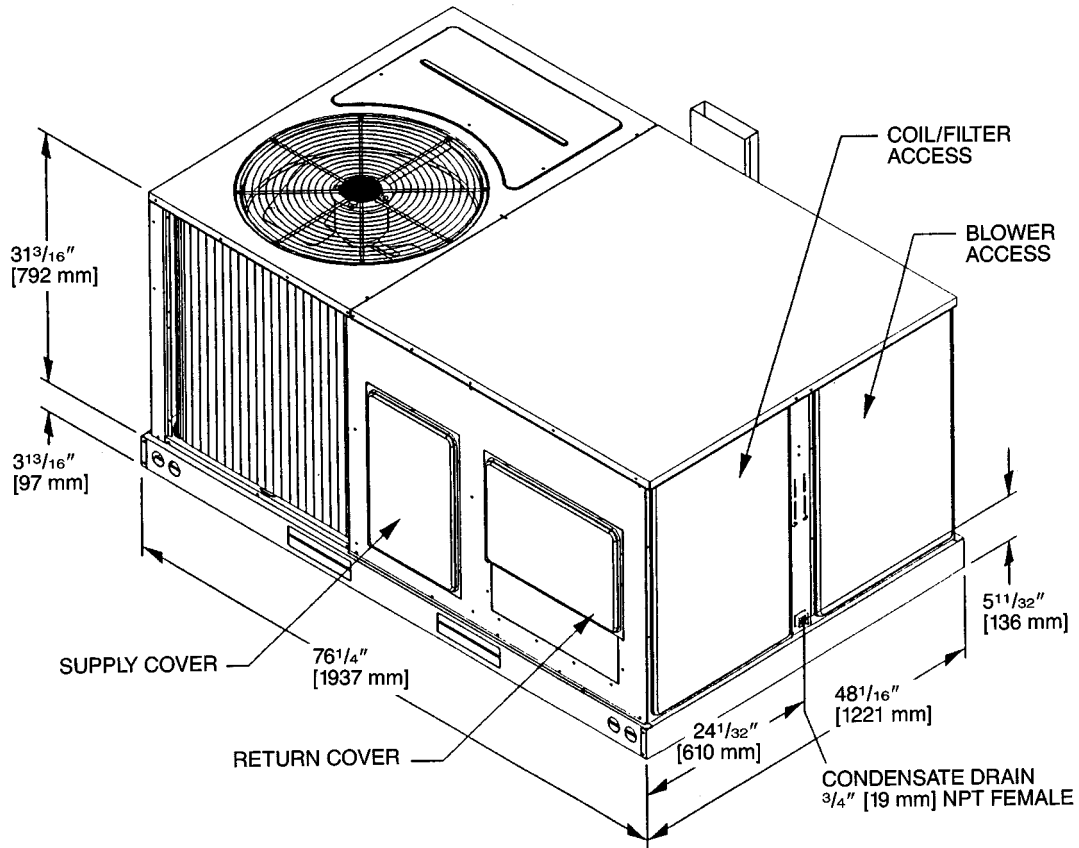


[ ] Designates Metric Conversions

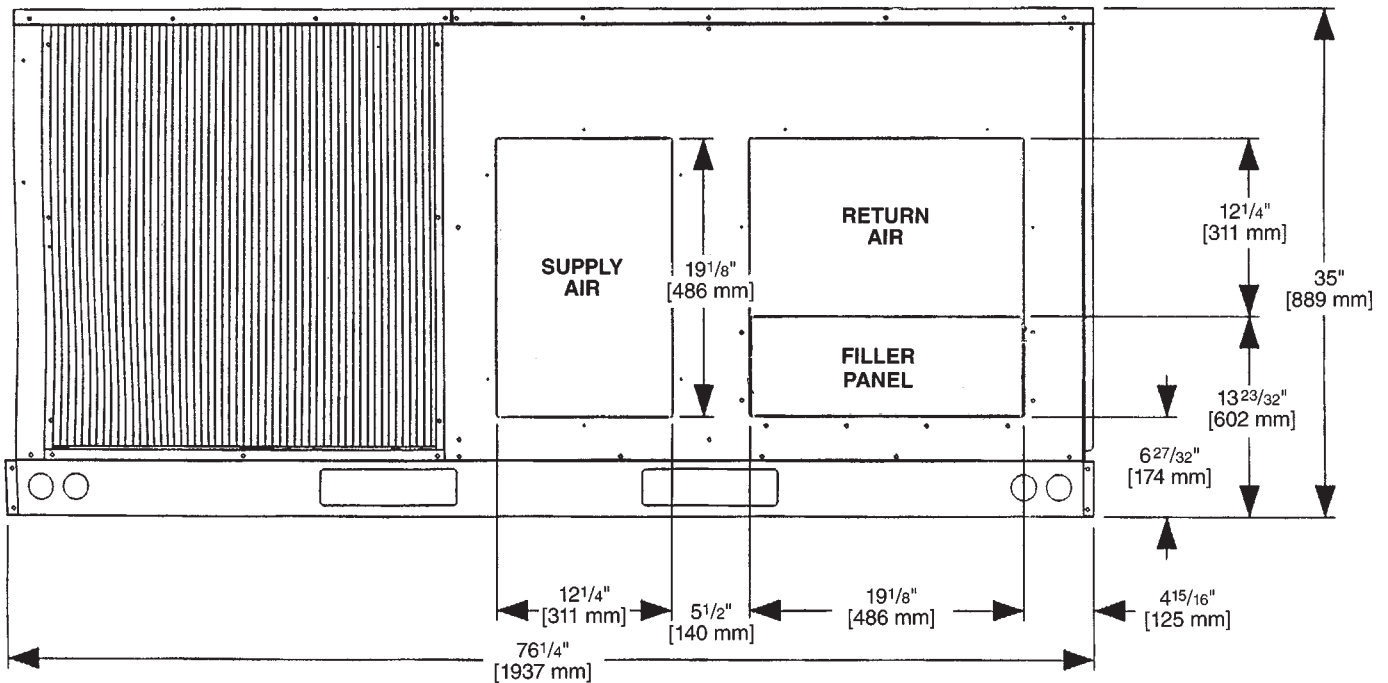
# UNIT DIMENSIONS—TZCGE-3 SERIES

## UNIT DIMENSIONS PACKAGE GAS ELECTRIC UNITS

## 3 TO 5 TON [10.6 TO 17.6 kW] MODELS



### SUPPLY AND RETURN DIMENSIONS



[ ] Designates Metric Conversions

## WEIGHTS

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

### CENTER OF GRAVITY (C.G.)

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

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

[ ] Designates Metric Conversions

## CLEARANCES

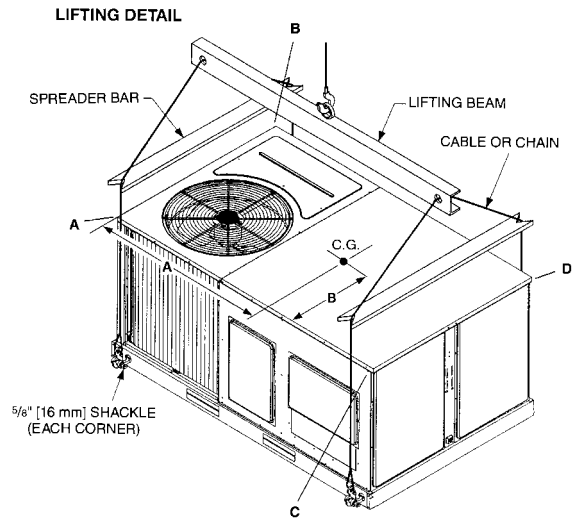
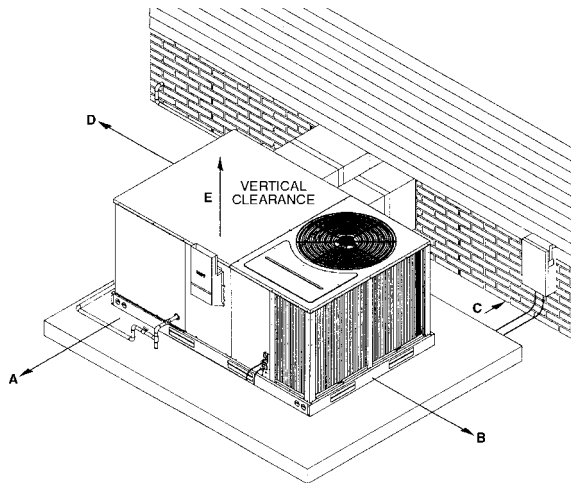
### (3 to 5 Ton [10.6 to 17.6 kW] Models)

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

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

\*Without Economizer. 57" [1448 mm] With Economizer

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



# ACCESSORIES

## ACCESSORY EQUIPMENT

| Accessory Description   | Model Application<br>3 to 5 Ton<br>[10.6 to 17.6 kW] | Accessory<br>Model No.<br>3 to 5 Ton<br>[10.6 to 17.6 kW] | Factory Installed<br>3 to 5 Ton<br>[10.6 to 17.6 kW] |
|---|--|---|--|
| Roofcurb 14"  | TZCGE-3  | RXKG-CAD14  | No   |
| Roofcurb 24"  | TZCGE-3  | RXKG-CAD24  | No   |
| Roofcurb Adapters   | TZCGE-3  | RXR-ABCDB21<br>RXR-ABCDB22<br>RXR-ABCDB23                 | No   |
| Economizer with Single Enthalpy ②                                 | TZCGE-3  | TXRD-MECM3  | Yes  |
| Dual Enthalpy Kit   | TZCGE-3  | RXR-AV02  | No   |
| CO <sub>2</sub> Sensor Only                                       | TZCGE-3  | RXR-AR02  | No   |
| Power Exhaust   | TZCGE-3  | TXR-BGF04C, D, Y  | No   |
| Fresh Air Damper Manual   | TZCGE-3  | TXRF-FBA1   | No   |
| Fresh Air Damper Motorized  | TZCGE-3  | TXRF-FBB1   | No   |
| Rectangular to Round 18"<br>Duct Adapters for Concentric Diffuser | TZCGE-3  | RXMC-CB03   | No   |
| Rectangular to Round 20"<br>Duct Adapters for Concentric Diffuser | TZCGE-3  | RXMC-CB04   | No   |
| Concentric Diffuser 18" Step                                      | TZCGE-3  | RXR-FA60,<br>RXR-FA65                                     | No   |
| Concentric Diffuser 18" Flush                                     | TZCGE-3  | RXR-FA70,<br>RXR-FA75                                     | No   |
| Rectangular to Round 16" Side                                     | TZCGE-3  | RXMC-BB01   | No   |
| Louver Kit (3 Sides)  | All TZCGE-3 Models                                   | RXR-AAD01B  | Yes  |
| Time Delay  | TZCGE-3  | RXMD-B01  | Yes  |
| Low Ambient Control to 0°F [-18°C]                                | TZCGE-3  | RXRZ-B01  | Yes  |
| LP Conversion Kits for use with<br>White Rodgers Gas Valve ①      | TZCGE-3  | RXGJ-EP84W  | No   |
| LP Conversion Kits for use with<br>Honeywell Gas Valve ①          | TZCGE-3  | RXGJ-EP85H  | No   |
| Canadian High Altitude Kit<br>(for Natural Gas Only) ①            | TZCGE-3  | RXR-AH01  | No   |
| Freeze Stat   | TZCGE-3  | RXR-AM04  | Yes  |

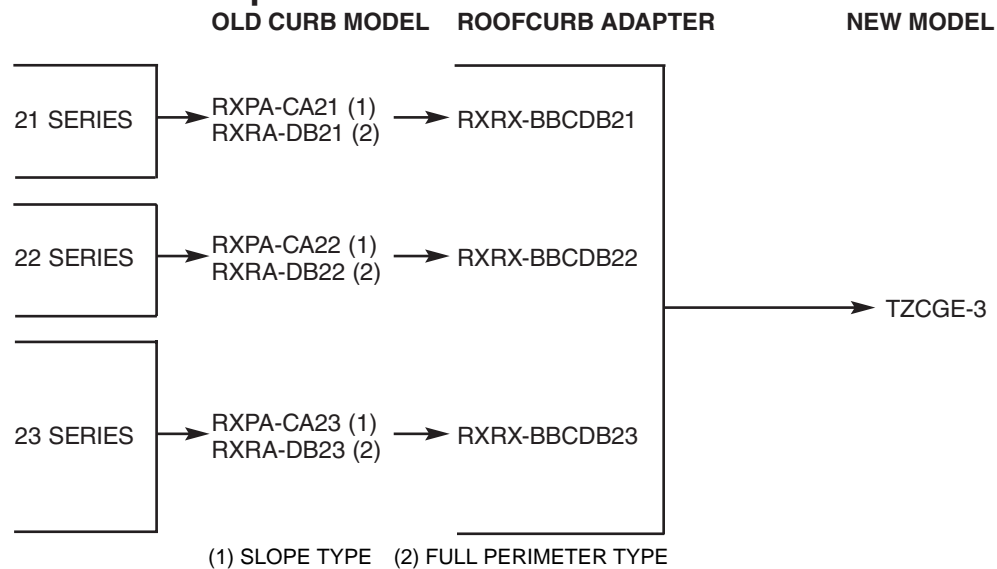
\*Voltage J = 208/230 VAC-1PH-60HZ D = 460 VAC-3PH-60HZ  
C = 208/230 VAC-3PH-60HZ

**NOTES:** ① If a particular unit is to be converted to operate on **LP (propane)** for elevations above 2000 ft. in Canada, the existing Natural Gas to LP Conversion Kits for the subject models already contain the necessary orifices and instructions to de-rate the input for 2000-4500 ft. Canadian applications.

② Economizer is designed for downflow or horizontal applications.

[ ] Designates Metric Conversions

**Roofcurb Adapters**



[ ] Designates Metric Conversions

# ACCESSORIES

## ROOFCURBS (Full Perimeter)

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

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

[ ] Designates Metric Conversions

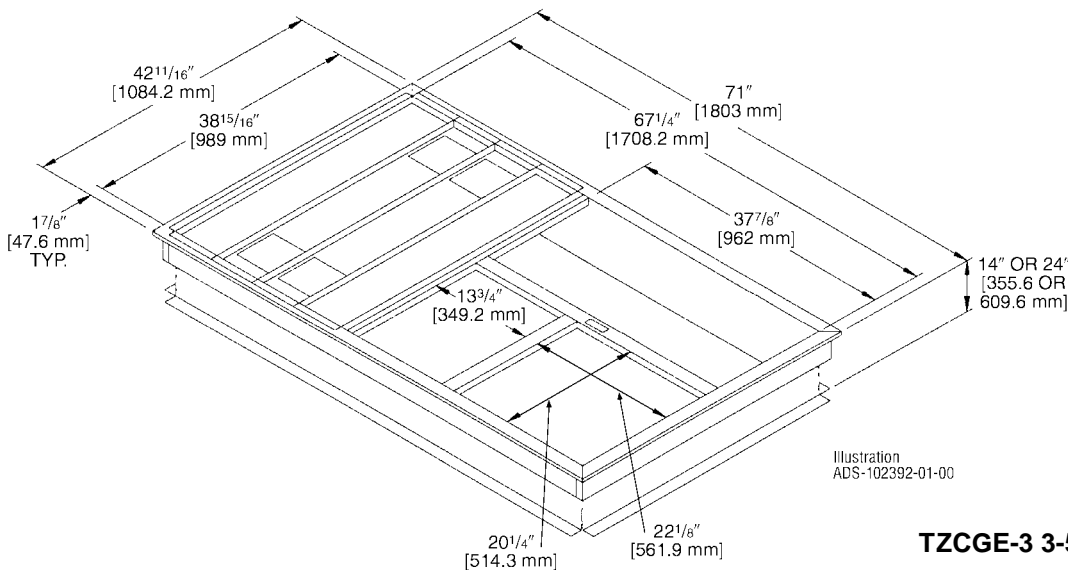
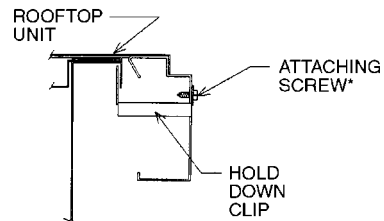
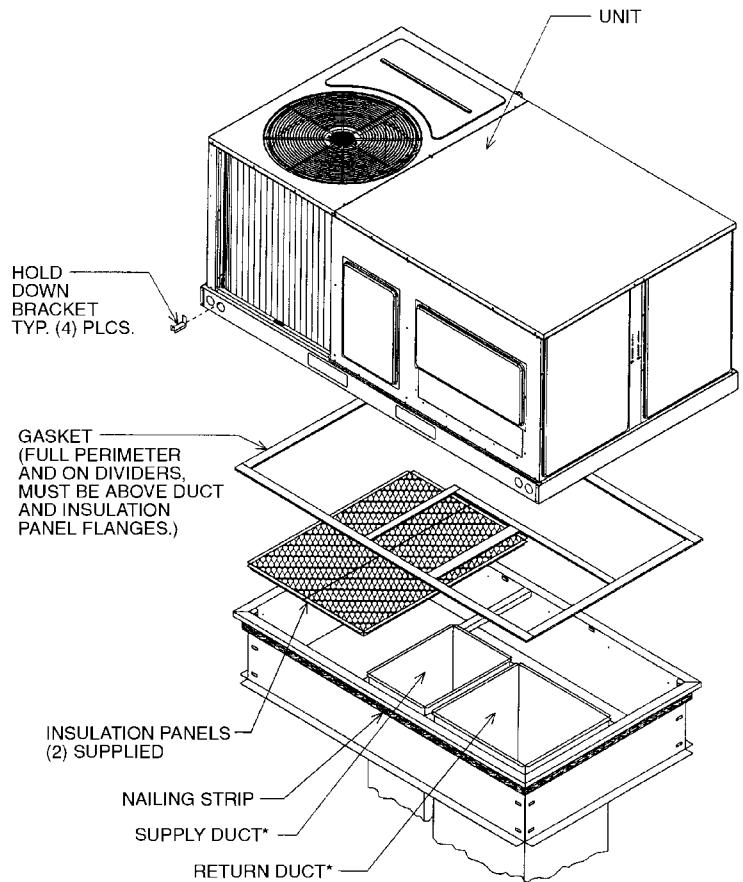
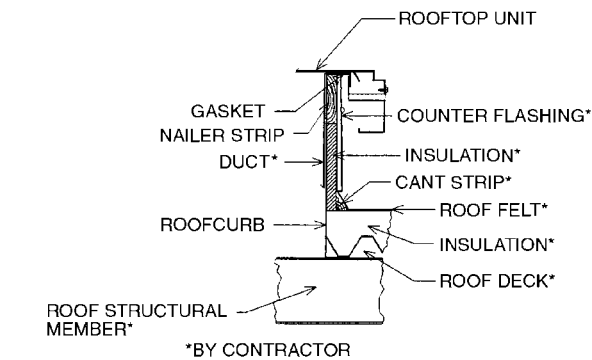


Illustration ADS-102392-01-00

**ROOFCURB FOR  
TZCGE-3 3-5 TON [10.6-17.6 kW] MODELS**



## ECONOMIZERS

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

RXXR-AV02—3-5 Ton [10.6-17.6 kW] Models

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

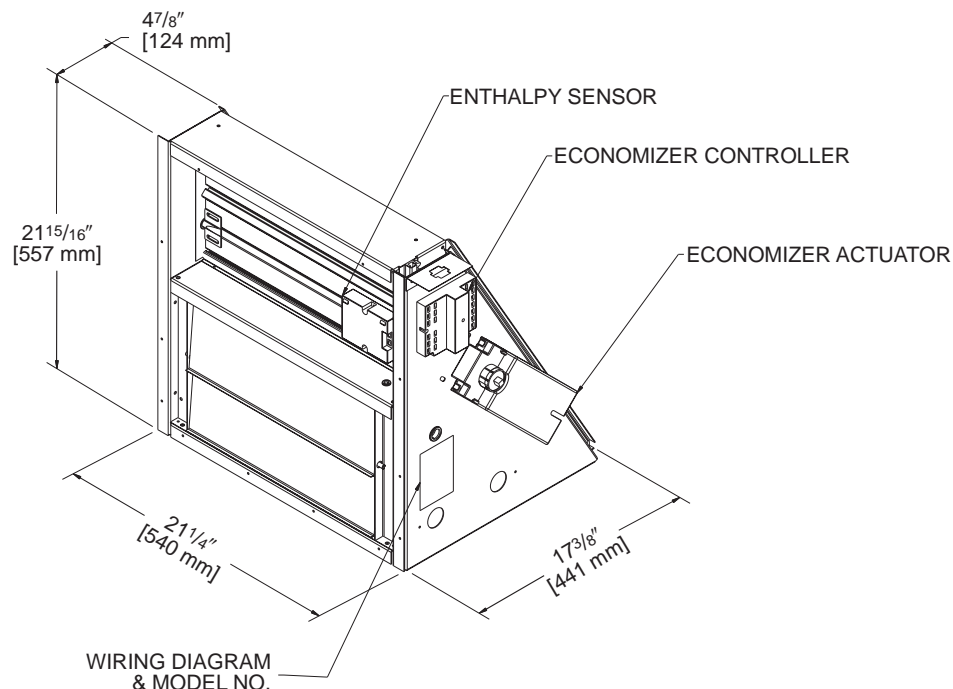
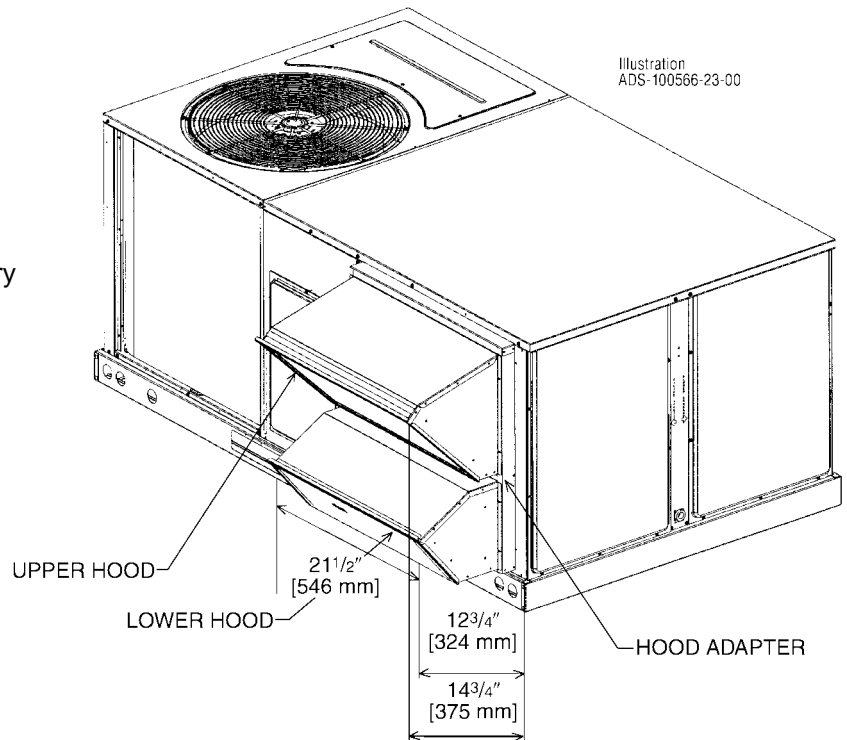
Single Enthalpy (with Barometric Relief)

Dual Enthalpy Kit

Optional CO<sub>2</sub> Sensor

- Features **Honeywell** Analog Controls
- Available factory installed or field accessory
- Gear Driven Direct Drive Actuator
- Fully Modulating (0-100%)
- Low Leakage Dampers
- Horizontal or Downflow Applications
- Slip-In Design for Easy Installations
- Plug-In Polarized 9-pin Electrical Connections
- Pre-configuring—No Field Adjustments Necessary
- Standard Barometric Relief Damper Provided
- Single Enthalpy with Dual Enthalpy upgrade kit
- CO<sub>2</sub> Input Sensor Available (field installed)
- Economizer slips in complete for downflow or horizontal duct applications
- Field assembled hood ships with Economizer
- Optional Remote minimum position (Honeywell #S963B1128) is available from ProStock.
- Field installed power exhaust available.

[ ] Designates Metric Conversions



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

# ACCESSORIES

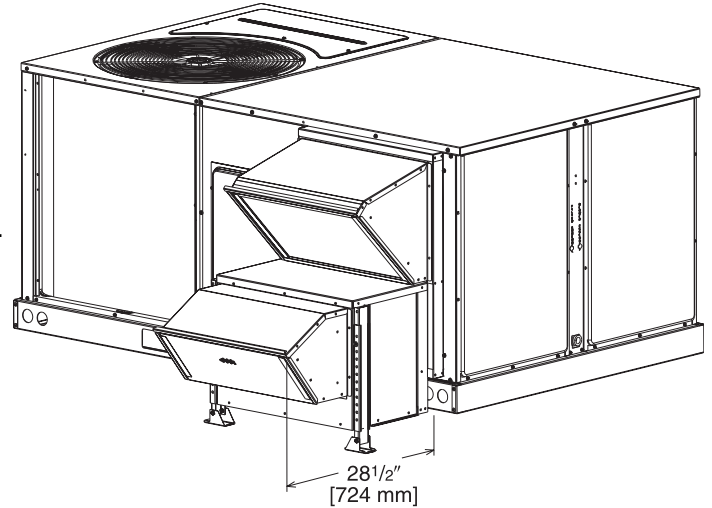
## INTEGRAL POWER EXHAUST FOR ECONOMIZER (FIELD INSTALLED ONLY)

**TXRX-BGF04C—TZCGE-3 3-5 Ton [10.6-17.6 kW] Models**  
208/230 V, 1PH and 3PH, 60 Hz

**TXRX-BGF04D—TZCGE-3 3-5 Ton [10.6-17.6 kW] Models**  
460 V, 3PH, 60 Hz

**TXRX-BGF04Y—TZCGE-3 3-5 Ton [10.6-17.6 kW] Models**  
575V, 3PH, 60 Hz

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



## POWER EXHAUST KIT FOR RXRD-MECM(-) ECONOMIZERS

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

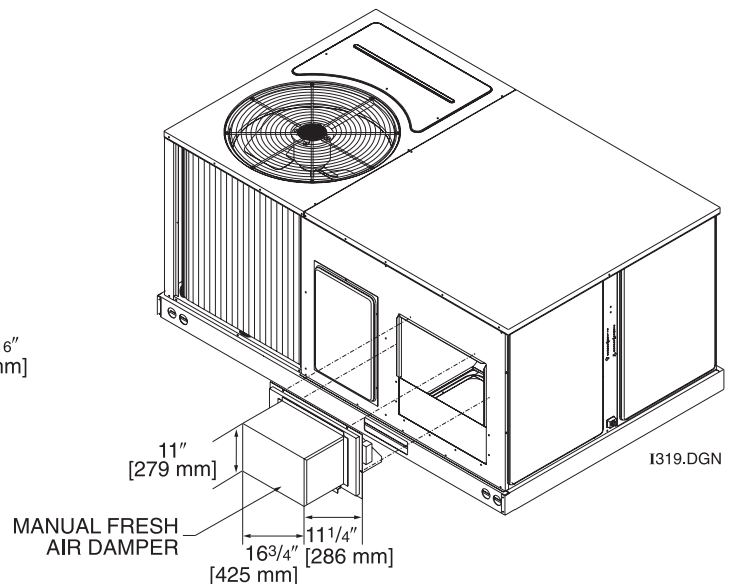
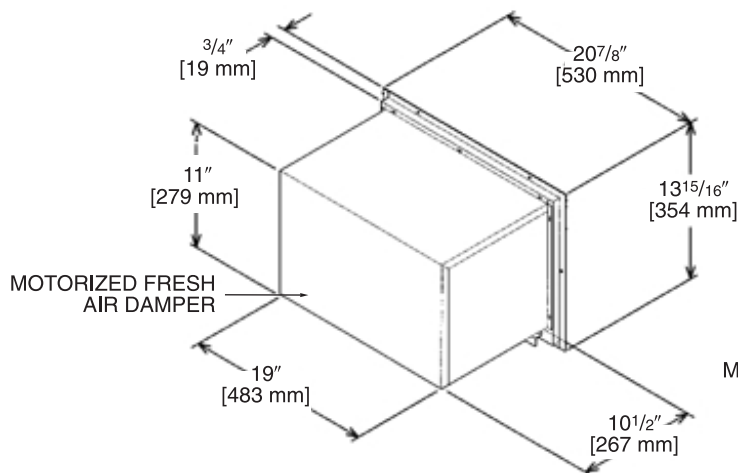
① CFM is at 0" W.C. external static pressure.

## FRESH AIR DAMPER

**TZCGE-3 3-5 Ton [10.6-17.6 kW] Models**

TXRF-FBA1 (Manual)

TXRF-FBB1 (Motorized)



[ ] Designates Metric Conversions

**DUCT ADAPTERS (TZCGE-3 3-5 Ton [10.6-17.6 kW] Models)  
Rectangular to Round Transitions (Downflow)**

RXMC-CB03 sizes available

18" [457 mm] fit all units.

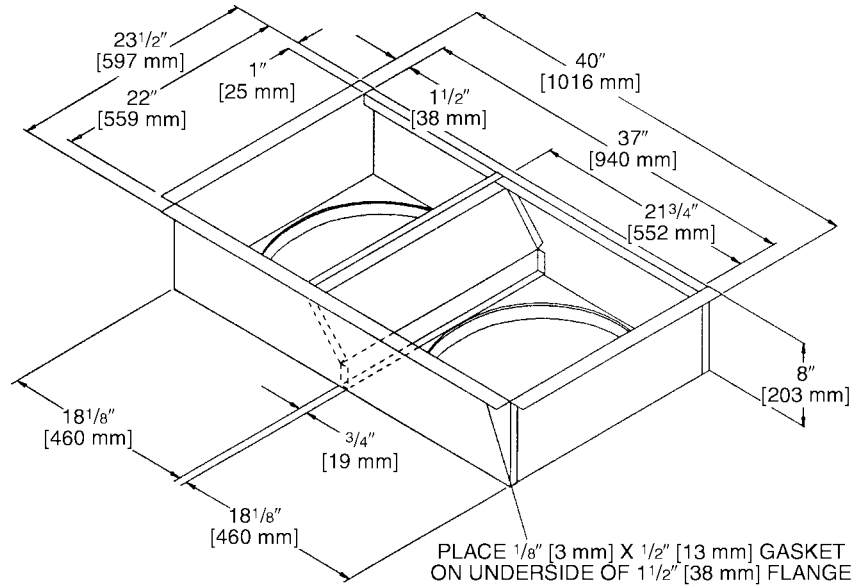
Drops into and secures to

RXKG- Series Roofcurbs.

**For use with**

**Concentric Diffusers.**

[ ] Designates Metric Conversions

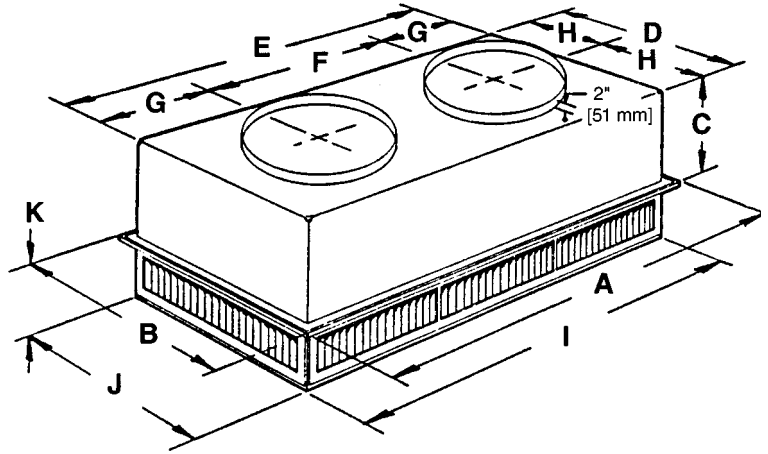


# ACCESSORIES

## SIDE DISCHARGE CONCENTRIC DIFFUSER

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

For Use With Duct Adapter (RXMC)



### DIMENSIONAL DATA

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

### ENGINEERING DATA

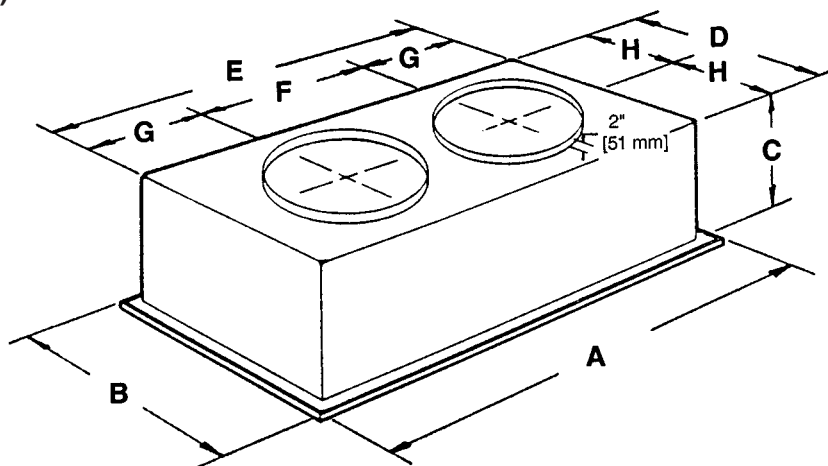
| Model No. | CFM [L/s]   | Static Pressure | Throw Feet | Neck Vel. | Jet Vel. | Noise Level |
|-----------|-------------|-----------------|------------|-----------|----------|-------------|
| RXRN-FA60 | 1000 [472]  | .14             | 10-17      | 351       | 351      | 20          |
|           |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

[ ] Designates Metric Conversions

## FLUSH MOUNT CONCENTRIC DIFFUSER

RXRN-FA70 (3 to 6 Ton [10.6 to 21.1 kW] Models)  
 RXRN-FA75 (3 to 7.5 Ton [10.6 to 26.4 kW] Models)

For Use With Duct Adapter (RXMC)



### DIMENSIONAL DATA

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

### ENGINEERING DATA

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

[ ] Designates Metric Conversions

## SAMPLE SPECIFICATIONS

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

### CABINET

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

### COMPRESSOR(S)

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

### COILS

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

### CONDENSER FAN

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

### EVAPORATOR BLOWER

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

### HEATING SECTION

Heat exchanger shall be of the tubular type made of aluminized steel. Burners shall be of the in-shot type. Unit shall be equipped with an integrated direct spark ignition control board with built-in diagnostics feature. Safeties to include limit, lockout, and flame roll-out switches.

## ACCESSORIES

### ROOF CURB

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

### ECONOMIZER

Economizer shall be completely assembled for field installation. Unit shall include all controls and dampers including the barometric relief damper. Shall be offered for both vertical and horizontal applications.

### MANUAL FRESH AIR DAMPER

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

### MOTORIZED FRESH AIR DAMPER

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

### PRESSURE CONTROLS

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

### LOW AMBIENT CONTROL

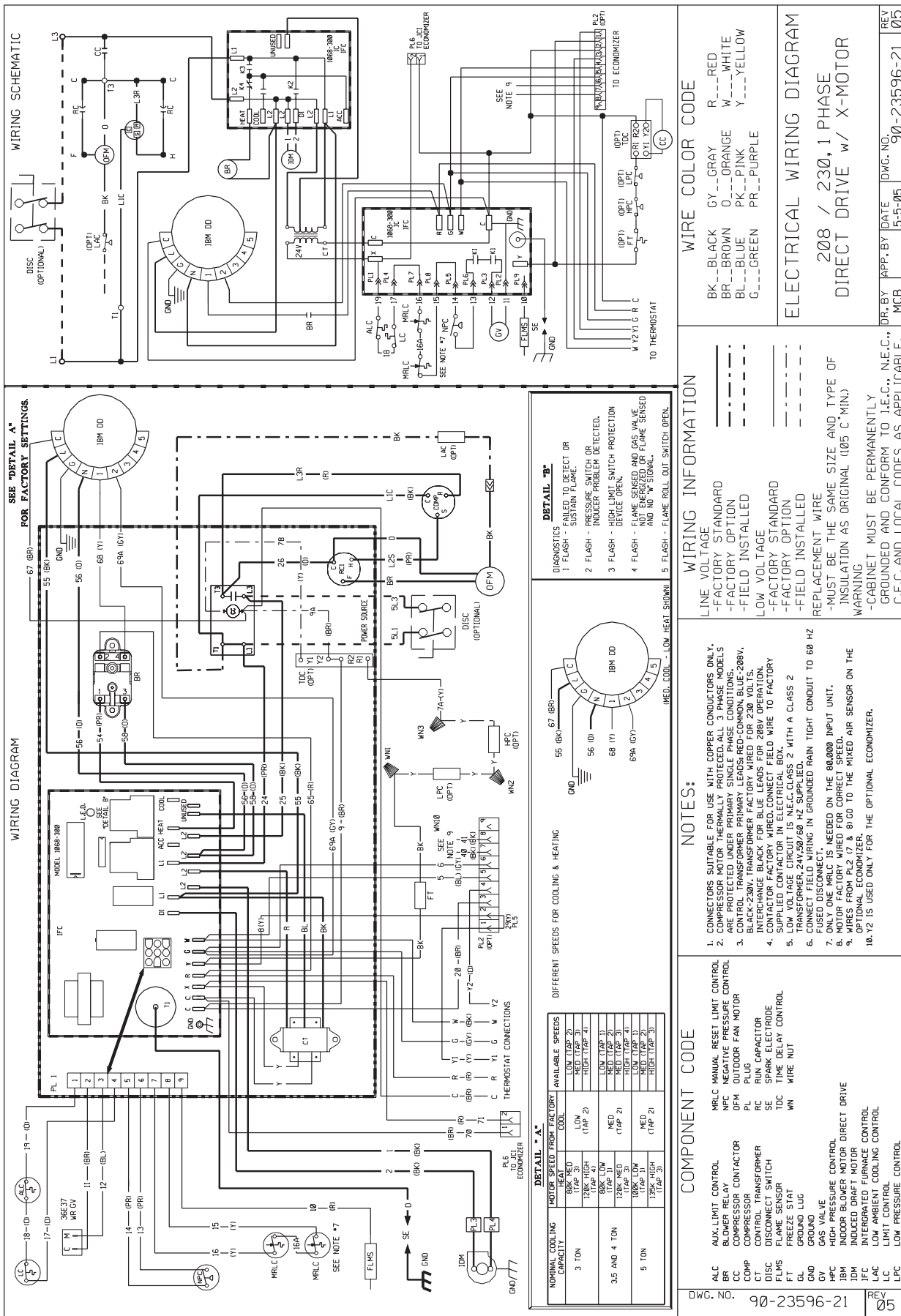
Low ambient control shall be provided to cycle the condenser fan in response to condensing pressure and allow operation to 0 degrees F. The option shall be field or factory installed.

### TIME DELAY CONTROL

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

### LOUVER PANEL KITS

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



**WIRING SCHEMATIC**

**WIRING DIAGRAM**

**SEE 'DETAIL A' FOR FACTORY SETTINGS**

**WIRE COLOR CODE**

**ELECTRICAL WIRING DIAGRAM**

**208 / 230, 1 PHASE DIRECT DRIVE w/ X-MOTOR**

**DR. BY APP. BY DATE DWG. NO. REV**

**WIRE COLOR CODE**

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

**ELECTRICAL WIRING DIAGRAM**

208 / 230, 1 PHASE  
DIRECT DRIVE w/ X-MOTOR

**DR. BY APP. BY DATE DWG. NO. REV**

|        |     |         |      |        |          |             |     |    |
|--------|-----|---------|------|--------|----------|-------------|-----|----|
| DR. BY | MCB | APP. BY | DATE | 5-5-05 | DWG. NO. | 90-23596-21 | REV | 05 |
|--------|-----|---------|------|--------|----------|-------------|-----|----|

**COMPONENT CODE**

|       |                                  |
|-------|----------------------------------|
| ALC   | AUX. LIMIT CONTROL               |
| BR    | BLOWER RELAY                     |
| COMPR | COMPRESSOR CONTACTOR             |
| CT    | CONTROL TRANSFORMER              |
| DISC  | DISCONNECT SWITCH                |
| FLMS  | FLAME SENSOR                     |
| FT    | FREEZE STAT                      |
| GL    | GROUND LUG                       |
| GND   | GROUND                           |
| GV    | GAS VALVE                        |
| HPC   | HIGH PRESSURE CONTROL            |
| IBM   | INDOOR BLOWER MOTOR DIRECT DRIVE |
| IBFC  | INDOOR BLOWER MOTOR              |
| IFC   | INTEGRATED FURNACE CONTROL       |
| LAC   | LOW AMBIENT COOLING CONTROL      |
| LC    | LIMIT CONTROL                    |
| LPC   | LOW PRESSURE CONTROL             |

**COMPONENT CODE**

|      |                            |
|------|----------------------------|
| MRLC | MANUAL RESET LIMIT CONTROL |
| NPC  | NEGATIVE PRESSURE CONTROL  |
| PH   | INDOOR FAN MOTOR           |
| PL   | PLUS                       |
| RC   | RUN CAPACITOR              |
| SE   | SPARK ELECTRODE            |
| TDC  | TIME DELAY CONTROL         |
| WN   | WIRE NUT                   |

**DIFFERENT SPEEDS FOR COOLING & HEATING**

| NOMINAL COOLING CAPACITY | MOTOR SPEED FROM FACTORY | AVAILABLE SPEEDS |
|--------------------------|--------------------------|------------------|
| 3 TON                    | COOL                     | LOW (TAP 2)      |
|                          | MED (TAP 3)              | MED (TAP 3)      |
|                          | HIGH (TAP 4)             | HIGH (TAP 4)     |
| 3.5 AND 4 TON            | LOW                      | LOW (TAP 1)      |
|                          | MED (TAP 2)              | MED (TAP 2)      |
|                          | HIGH (TAP 3)             | HIGH (TAP 3)     |
| 5 TON                    | MED                      | MED (TAP 1)      |
|                          | LOW (TAP 2)              | LOW (TAP 2)      |
|                          | HIGH (TAP 3)             | HIGH (TAP 3)     |

**DETAIL - 'A'**

DIFFERENT SPEEDS FOR COOLING & HEATING

| NOMINAL COOLING CAPACITY | MOTOR SPEED FROM FACTORY | AVAILABLE SPEEDS |
|--------------------------|--------------------------|------------------|
| 3 TON                    | COOL                     | LOW (TAP 2)      |
|                          | MED (TAP 3)              | MED (TAP 3)      |
|                          | HIGH (TAP 4)             | HIGH (TAP 4)     |
| 3.5 AND 4 TON            | LOW                      | LOW (TAP 1)      |
|                          | MED (TAP 2)              | MED (TAP 2)      |
|                          | HIGH (TAP 3)             | HIGH (TAP 3)     |
| 5 TON                    | MED                      | MED (TAP 1)      |
|                          | LOW (TAP 2)              | LOW (TAP 2)      |
|                          | HIGH (TAP 3)             | HIGH (TAP 3)     |

**DETAIL - 'B'**

DIAGNOSTICS - FAILED TO DETECT OR SUSTAIN FLAME.

- 1 FLASH - FAILED TO DETECT OR SUSTAIN FLAME.
- 2 FLASH - PRESSURE SWITCH OR INDOOR PROBLEM DETECTED.
- 3 FLASH - HIGH LIMIT SWITCH PROTECTION DEVICE OPEN.
- 4 FLASH - FLAME SENSED AND GAS VALVE AND NO. 2 SIGNAL.
- 5 FLASH - FLAME ROLL OUT SWITCH OPEN.

**DETAIL - 'C'**

CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.

1. CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
2. COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
3. CONTROL TRANSFORMER PRIMARY LEADS: RED-COMMON, BLUE-208V, BLACK-230V. TRANSFORMER FACTORY WIRED FOR 230 VOLTS.
4. CONTACTOR FACTORY WIRED. CONNECT FIELD WIRE TO FACTORY SUPPLIED CONTACTOR IN ELECTRICAL BOX.
5. LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER, 24V, 50/60 HZ SUPPLIED.
6. CONNECT FIELD WIRING IN GROUNDING RAIN TIGHT CONDUIT TO 60 HZ FUSED DISJUNCTION IS. BASED ON THE 90,000 INPUT UNIT.
7. MOTOR FACTORY WIRED FOR CORRECT SPEED.
8. MOTOR FACTORY WIRED FOR 230 VOLTS.
9. WIRE FROM PL2 (7 & 8) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
10. Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

**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.)
- WARNING
- CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C. AND LOCAL CODES AS APPLICABLE.

**NOTES:**

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4. CONTACTOR FACTORY WIRED. CONNECT FIELD WIRE TO FACTORY SUPPLIED CONTACTOR IN ELECTRICAL BOX.
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- FACTORY OPTION
- FIELD INSTALLED

LOW VOLTAGE

- FACTORY STANDARD
- FACTORY OPTION
- FIELD INSTALLED

REPLACEMENT WIRE

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- WARNING
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7. MOTOR FACTORY WIRED FOR CORRECT SPEED.
8. MOTOR FACTORY WIRED FOR 230 VOLTS.
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10. Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

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- FACTORY OPTION
- FIELD INSTALLED

LOW VOLTAGE

- FACTORY STANDARD
- FACTORY OPTION
- FIELD INSTALLED

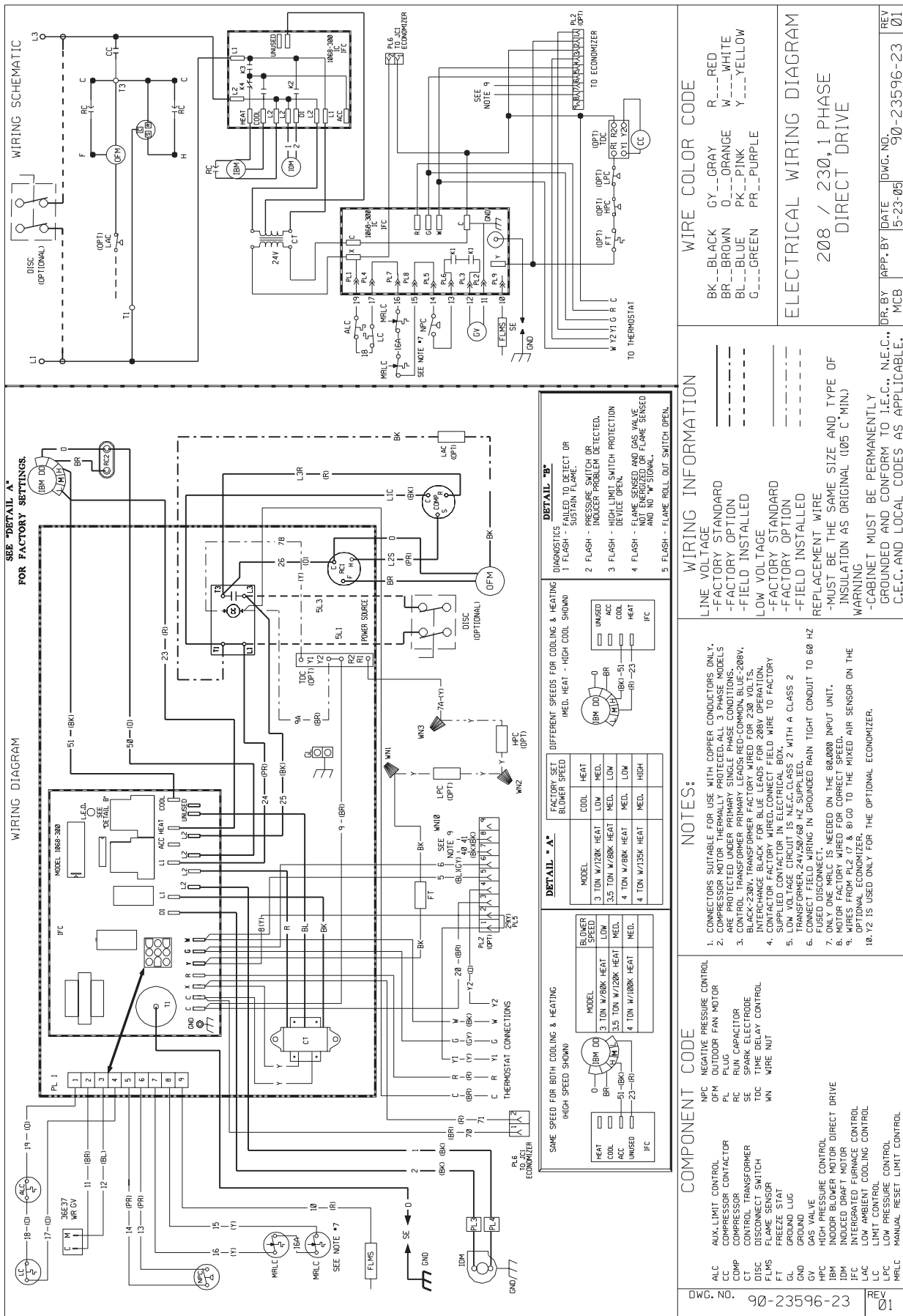
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- WARNING
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10. Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

# WIRING SCHEMATICS—TZCGE-3 SERIES

**SEE "DETAIL A" FOR FACTORY SETTINGS.****WIRING DIAGRAM****WIRING SCHEMATIC**

- COMPONENT CODE**
- ALC AUX-LIMIT CONTROL
  - OPM OUTDOOR FAN MOTOR
  - FT FUSE
  - PLC CONTACTOR
  - CAP CAPACITOR
  - DISC CONTROL TRANSFORMER
  - SE SPARK ELECTRODE
  - DISC DISCONNECT SWITCH
  - FLMS FLAME SENSOR
  - FREEZE STAT FREEZE STAT
  - GL GROUND LUG
  - GN GROUND
  - GV GAS VALVE
  - HPC HIGH PRESSURE CONTROL
  - IBM INDOOR BLOWER MOTOR DIRECT DRIVE
  - IDM INDUCED DRIFT MOTOR CONTROL
  - LAC LOW AMBIENT COOLING CONTROL
  - LC LIMIT CONTROL
  - LOW PRESSURE CONTROL
  - LPC LOW PRESSURE CONTROL
  - MRLC MANUAL RESET LIMIT CONTROL

- NOTES:**
- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
  - COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
  - CONTROL TRANSFORMER PRIMARY LEADS RED-COMMON BLUE-208V, BLUE-230V, BROWN-115V, AC (OPT.) WIRE TO WINDING COMMON. ALL IS BLUES. SEE THE FIELD WIRING IN ELECTRICAL BOX FOR FFC, OPR, & SUPPLIED CONTACTOR WIRE. CONNECT FIELD WIRE TO FACTORY SUPPLIED CONTACTOR IN ELECTRICAL BOX.
  - LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER, 24V/50/60 HZ SUPPLIED.
  - CONNECT FIELD WIRING IN GROUNDING RAIN TIGHT CONDUIT TO 60 HZ SUPPLY.
  - ONLY ONE MRLC IS NEEDED ON THE 80,000 INPUT UNIT.
  - MOTOR FACTORY WIRED FOR CORRECT SPEED.
  - WIRE FROM PL2 (7 & 8) TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
  - 10, 12 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

- 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.

**WIRE COLOR CODE**

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

**ELECTRICAL WIRING DIAGRAM**

208 / 230, 1 PHASE  
DIRECT DRIVE

DR. BY APP. BY DATE DWG. NO. REV  
MCB 5-23-05 90-23596-23 01

**DETAIL - A\***

SAME SPEED FOR BOTH COOLING & HEATING (HIGH SPEED SHOWN)

| MODEL               | HEAT | COOL |
|---------------------|------|------|
| 3 TON W/120K HEAT   | LOW  | MED. |
| 3.5 TON W/180K HEAT | MED. | LOW  |
| 4 TON W/80K HEAT    | MED. | LOW  |
| 4 TON W/120K HEAT   | MED. | MED. |

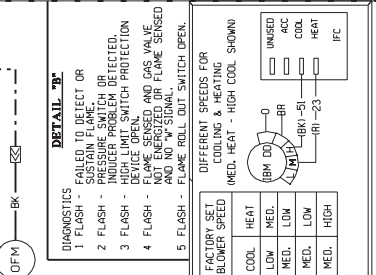
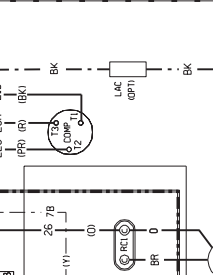
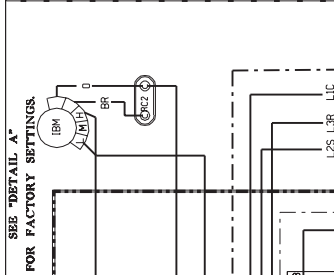
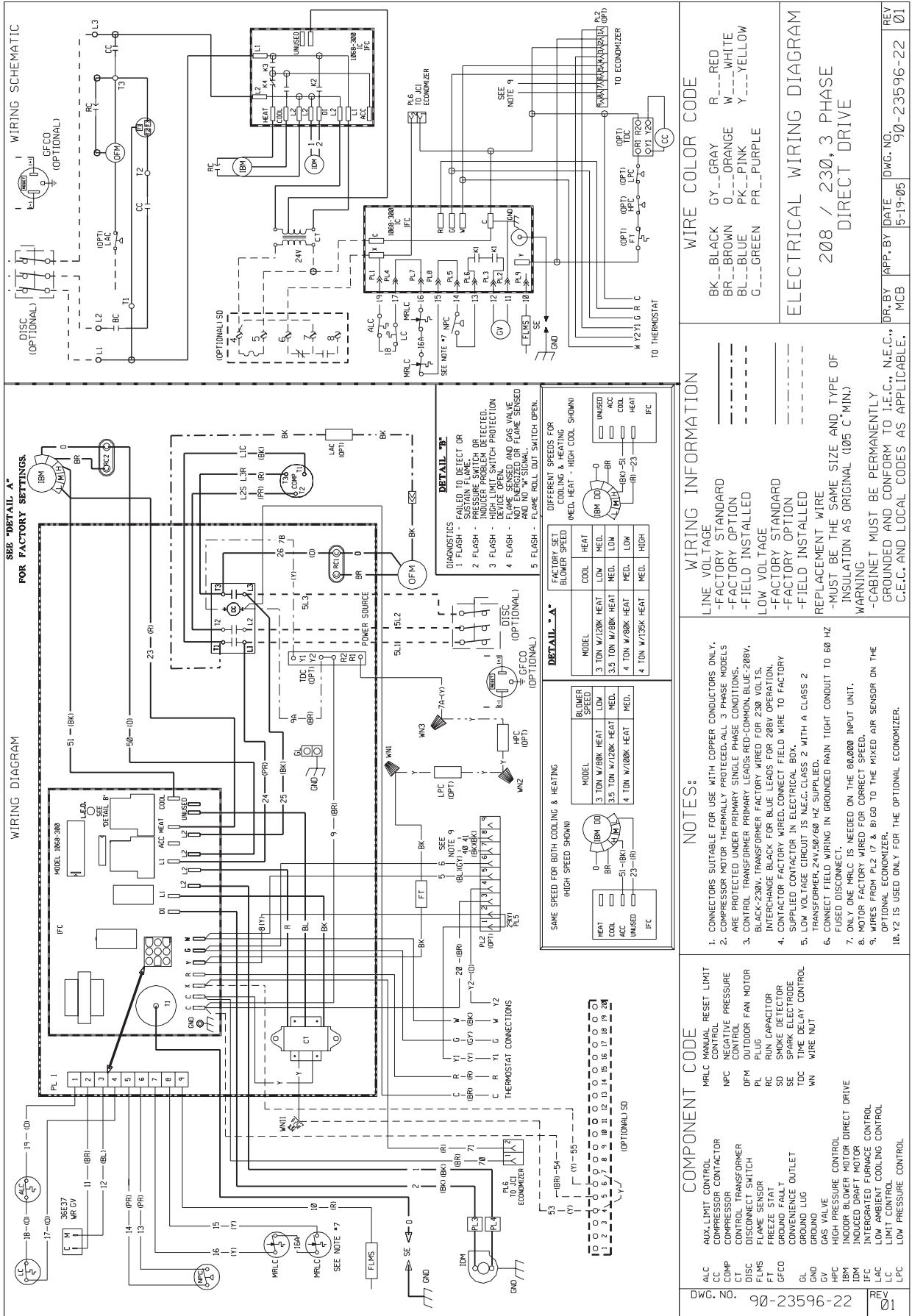
**DIFFERENT SPEEDS FOR COOLING & HEATING (HIGH SPEED SHOWN)**

| FACTORY SET | COOL    | HEAT   |
|-------------|---------|--------|
| 0           | BR      | BR     |
| 1           | 51-(BK) | 23-(R) |
| 2           | 51-(BK) | 50-(O) |
| 3           | 51-(BK) | 23-(R) |

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

- DETAIL - B\***
- DIAGNOSTICS
- 1 FLASH - FAILED TO DETECT OR SUSTAIN FLAME.
  - 2 FLASH - PRESSURE SWITCH OR DETECTED, INDUCER PROBLEM DETECTED.
  - 3 FLASH - HIGH LIMIT SWITCH PROTECTION BECAME OPEN.
  - 4 FLASH - FLAME SENSING AND GAS VALVE SENSED AND NO SIGNAL.
  - 5 FLASH - FLAME ROLL-OUT SWITCH OPEN.





**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.)

**WARNING**

-CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C. AND LOCAL CODES AS APPLICABLE.

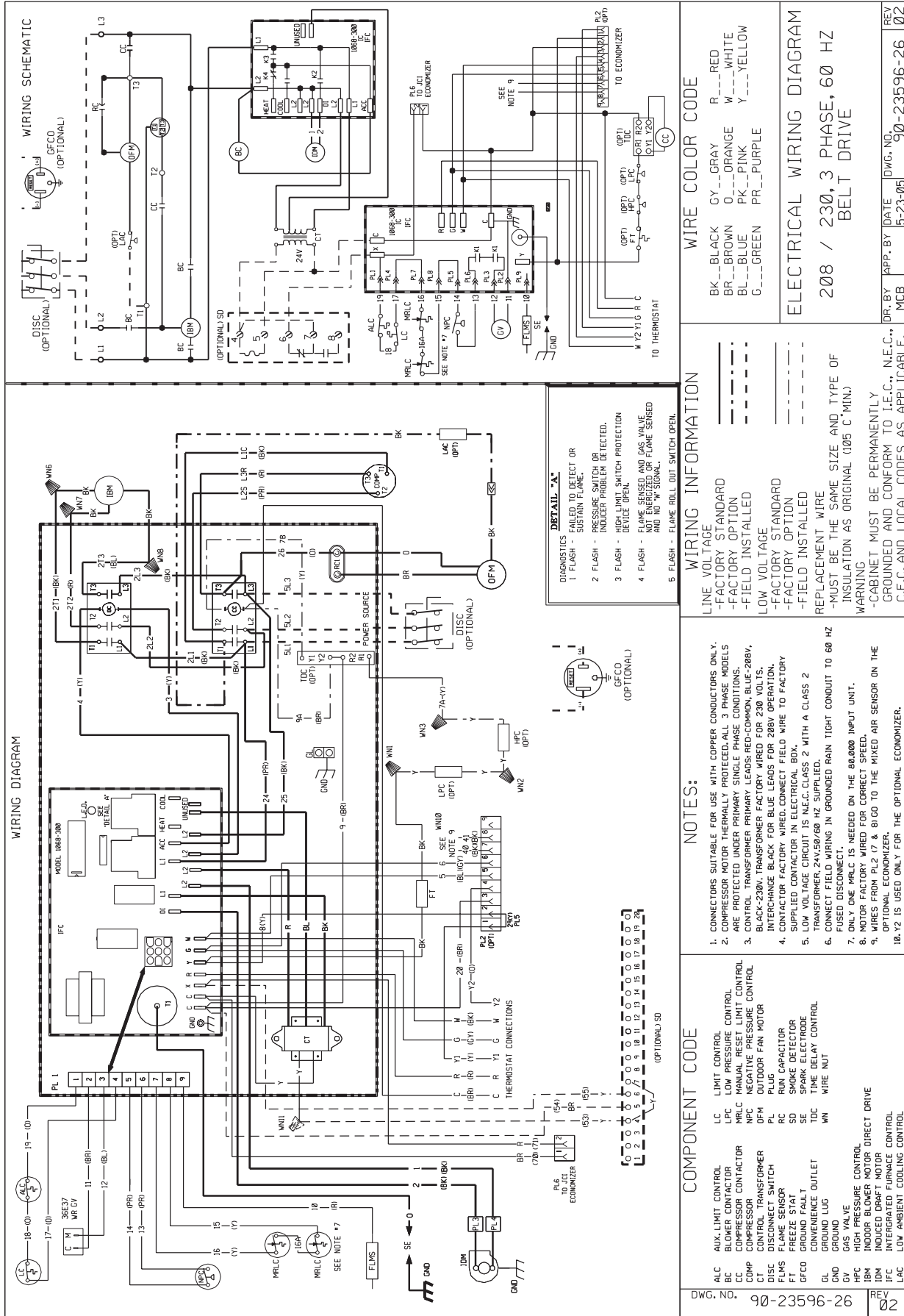
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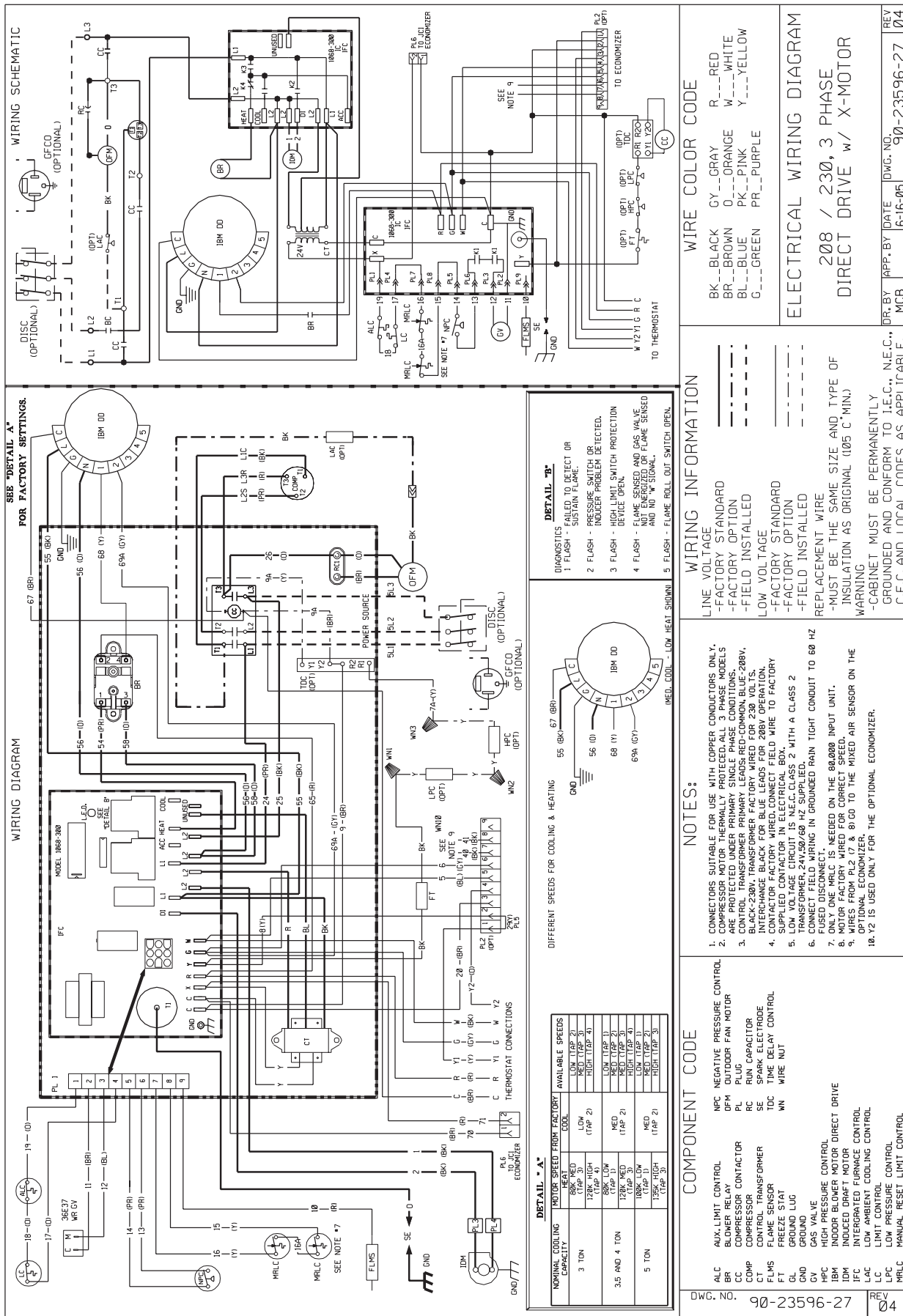
- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
- COMPRESSOR MOTOR THERMALLY PROTECTED, ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
- CONTROL TRANSFORMER PRIMARY LEADS-RED-COMMON, BLUE-208V, BLACK-230V. TRANSFORMER FACTORY WIRING FOR 230 VOLTS. INTERCHANGE BLACK FOR BLUE LEADS FOR 208V OPERATION. SUPPLIED CONTACTOR IN ELECTRICAL BOX.
- LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER, 24V, 50V/60 HZ SUPPLIED.
- CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO 60 HZ FUSED DISCONNECT.
- ONLY ONE MRLC IS NEEDED ON THE 60,000 INPUT UNIT.
- MOTOR FACTORY WIRING FOR CORRECT SPEED.
- WIRES FROM PL2 17 & 8) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
- 10:Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

**DR. BY APP. BY DATE DWG. NO. REV**

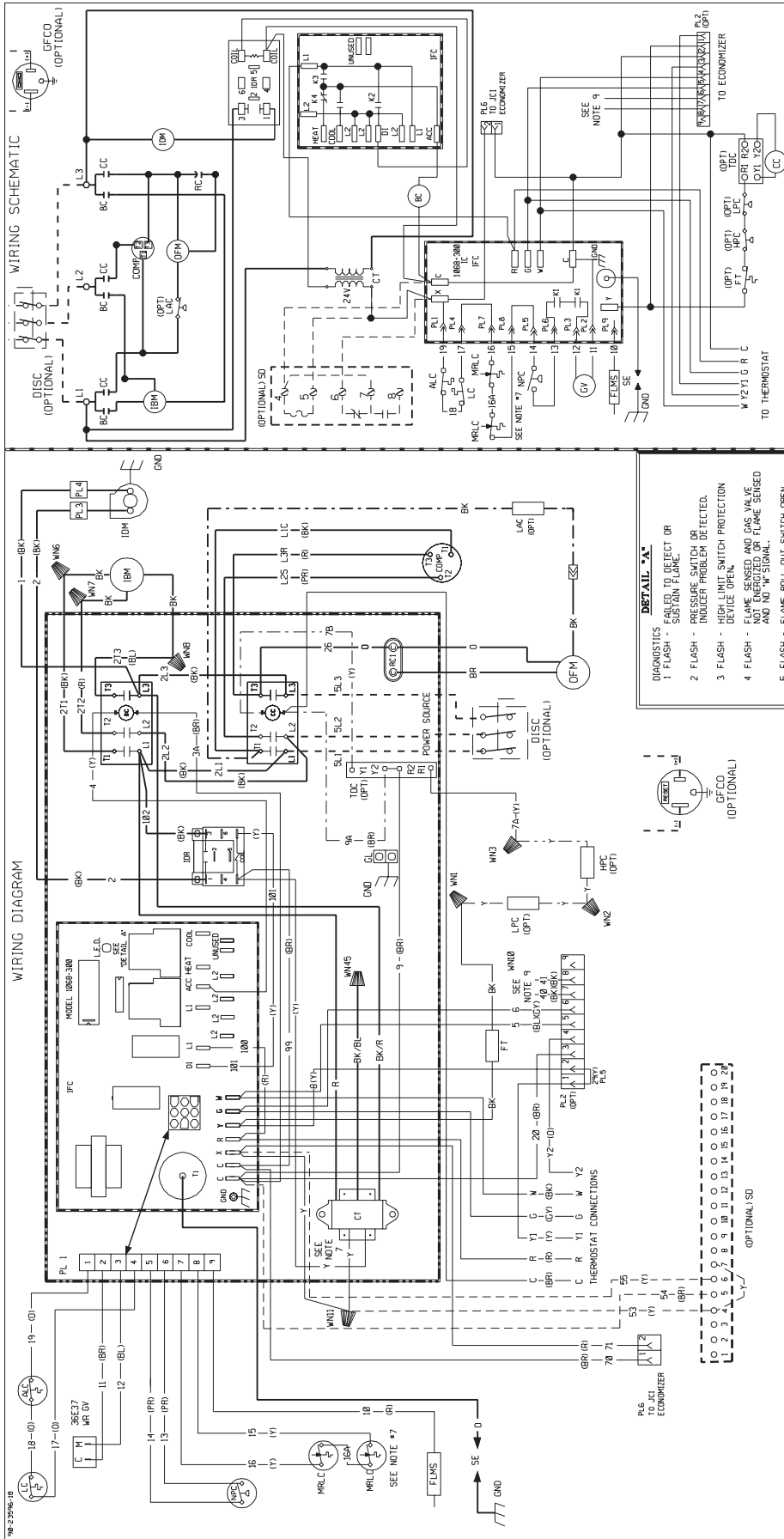
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| MCB | 90-23596-22 | 15-19-05 | 01 |
|-----|-------------|----------|----|

# WIRING SCHEMATICS—TZCGE-3 SERIES





# WIRING SCHEMATICS—TZCGE-3 SERIES



| COMPONENT CODE              |     |
|-----------------------------|-----|
| AUX. LIMIT CONTROL          | LIC |
| BLOWER CONTACTOR            | LBC |
| COMPRESSOR CONTACTOR        | LCC |
| CONTRACTOR                  | LCC |
| CONNECTOR TRANSFORMER       | LCC |
| DISCONNECT SWITCH           | PL  |
| FLAME SENSOR                | PL  |
| FREZE STAT                  | PT  |
| GROUND FAULT                | SD  |
| CONVENIENCE OUTLET          | SE  |
| GROUND LUG                  | SO  |
| GROUND                      | WN  |
| WIRE NUT                    | WN  |
| HIGH PRESSURE CONTROL       | IR  |
| INDUCER MOTOR DIRECT DRIVE  | IR  |
| INDUCER MOTOR               | IR  |
| INDUCED DRAFT RELAY         | IR  |
| INTEGRATED FURNACE CONTROL  | IR  |
| LOW AMBIENT COOLING CONTROL | IR  |

| 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 |                |
|---------------------------|----------------|
| 460                       | 3 PHASE, 60 HZ |
|                           | BELT DRIVE     |

| DR. BY | APP. BY | DATE    | DWG. NO.    | REV |
|--------|---------|---------|-------------|-----|
| MCB    |         | 5-23-05 | 90-23596-24 | 02  |

**NOTES:**

- CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.
- COMPRESSOR MOTOR THERMALLY PROTECTED-ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
- CONTRACTOR FACTORY WIRE, CONNECT FIELD WIRE TO FACTORY SUPPLIED CONTACTOR IN ELECTRICAL BOX.
- LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER, 24V/50/60 HZ SUPPLIED.
- CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO 60 HZ FUSED DISCONNECT.
- ONLY ONE MRLC IS NEEDED ON THE 800000 INPUT UNIT.
- POWER TRANSFORMER PRIMARY LEADS: BLUE-COMMON; BK/RED-460V, 60 HZ.; 380V, 50 HZ.; RED-575V, 60 HZ.; 415V, 50 HZ.
- WIRES FROM PL2 (7 & 8) GO TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.
- Y2 IS USED ONLY FOR THE OPTIONAL ECONOMIZER.

**WIRING INFORMATION**

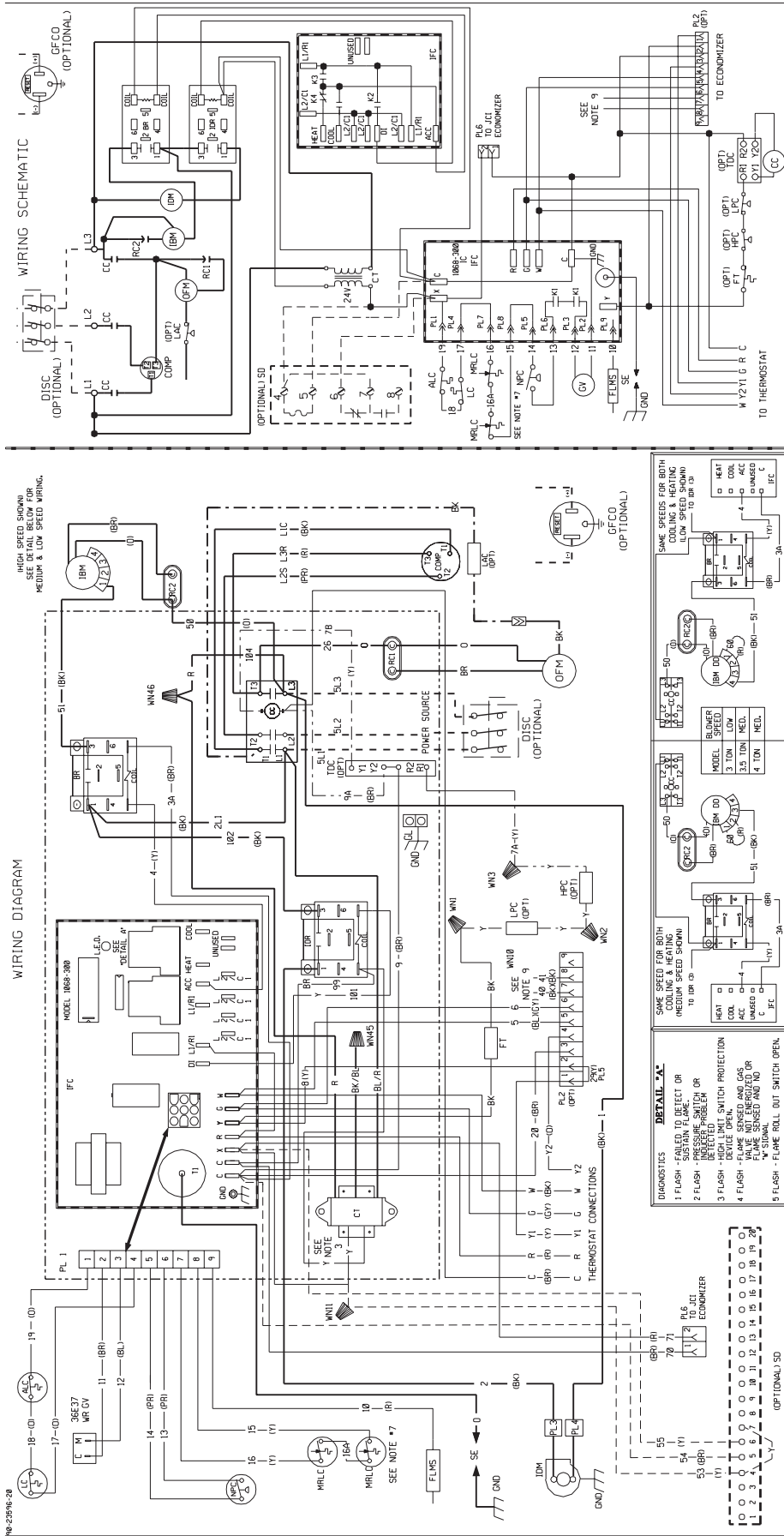
LINE VOLTAGE

- 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.

| DWG. NO.    | REV |
|-------------|-----|
| 90-23596-24 | 02  |



WIRING SCHEMATIC

WIRING DIAGRAM

|  |   |   |   |                    |
|--|---|---|---|--------------------|
| <p>WIRE COLOR CODE</p> <p>BK BLACK GY GRAY R RED<br/>BR BROWN O ORANGE W WHITE<br/>BL BLUE P PINK Y YELLOW<br/>G GREEN PR PURPLE</p> | <p>WIRING INFORMATION</p> <p>LINE VOLTAGE<br/>-FACTORY STANDARD<br/>-FACTORY OPTION<br/>-FIELD INSTALLED<br/>LOW VOLTAGE<br/>-FACTORY STANDARD<br/>-FACTORY OPTION<br/>-FIELD INSTALLED<br/>REPLACE WITH THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105 C MIN.)<br/>-CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C. AND LOCAL CODES AS APPLICABLE.</p> | <p>NOTES:</p> <ol style="list-style-type: none"> <li>CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY.</li> <li>COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.</li> <li>POWER TRANSFORMER PRIMARY LEADS BLUE-COMMON; BK/RED-460V, 60 HZ.; 380V-50 HZ.; RED-275V, 60 HZ.; 415V, 50 HZ.</li> <li>COMPACTOR FACTORY WIRE. CONNECT FIELD WIRE TO FACTORY SUPPLIED CONTACTOR IN ELECTRICAL BOX.</li> <li>LOW VOLTAGE CIRCUITS ARE CLASS 2 WITH A CLASS 2 CONNECTED FIELD WIRING IN GROUNDED MAIN TIGHT CONDUIT TO 60 HZ. FUSED DISCONNECT.</li> <li>CONNECT FIELD WIRING IN GROUNDED MAIN TIGHT CONDUIT TO 60 HZ. WIRES FROM PL2 (17 &amp; 8) TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.</li> <li>ONLY ONE MRLC IS NEEDED ON THE 60,000 INRBT UNIT.</li> <li>WIRES FROM PL2 (17 &amp; 8) TO THE MIXED AIR SENSOR ON THE OPTIONAL ECONOMIZER.</li> </ol> | <p>COMPONENT CODE</p> <p>AUX LIMIT CONTROL LC LIMIT CONTROL<br/>BLM BLOWER MOTOR LFC LOW PRESSURE CONTROL<br/>BC BLOWER CONTACTOR MRLC MANUAL RESET LIMIT CONTROL<br/>CC COMPRESSOR MRLC NEGATIVE PRESSURE CONTROL<br/>CDMP COMPRESSOR NPFC NEGATIVE PRESSURE CONTROL<br/>CT CONTROL TRANSFORMER OFM OUTDOOR FAN MOTOR<br/>DISC DISCONNECT SWITCH PL PLUG<br/>FLMS FLAME SENSOR PT POWER TRANSFORMER<br/>FT FREEZE STAT RC RUN CAPACITOR<br/>GFCO GROUND FAULT SE SPARK DETECTOR<br/>CONVENIENCE OUTLET! TD TIRE DELAY CONTROL<br/>GROUND LUG UN WIRE NUT<br/>INDUCER GAS VALVE<br/>HIGH PRESSURE CONTROL<br/>INDUCER BLOWER MOTOR DIRECT DRIVE<br/>INDUCED DRAFT MOTOR IDM<br/>INDUCER DRAFT RELAY IDR<br/>INTERGRADED FURNACE CONTROL IFC<br/>LOW AMBIENT COOLING CONTROL LAC</p> | <p>90-23596-25</p> |
| <p>WIRE COLOR CODE</p> <p>BK BLACK GY GRAY R RED<br/>BR BROWN O ORANGE W WHITE<br/>BL BLUE P PINK Y YELLOW<br/>G GREEN PR PURPLE</p> | <p>ELECTRICAL WIRING DIAGRAM</p> <p>460, 3 PHASE, 60 HZ<br/>DIRECT DRIVE<br/>ROOFTOP</p>  | <p>DR. BY APP. BY DATE DWG. NO.<br/>MCB 5-23-05 90-23596-25</p>   | <p>REV 02</p>   | <p>02</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.**

Conditional Parts\* (Registration Required) .....Ten (10) Years  
Heat Exchanger  
Factory Standard .....Ten (10) Years  
Stainless Steel/1-Phase Models/  
(Residential Applications).....Limited Lifetime  
Stainless Steel/1-Phase & 3-Phase Models/  
(Commercial Applications).....Twenty (20) Years  
Compressor .....Five (5) Years  
14 SEER, 1-Phase (Residential Applications) Ten (10) Years  
14 SEER, 1-Phase/3-Phase,  
(Commercial Applications).....Five (5) Years  
13 SEER Models.....Five (5) Years  
Any Other Part  
1-Phase Models (Residential Applications)...Five (5) Years  
1-Phase/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."*