

# Copeland Scroll™

ZX condensing unit for refrigeration applications



Product Catalogue

**Copeland Scroll™**

  
**EMERSON™**  
Climate Technologies

## About Emerson Climate Technologies

Emerson Climate Technologies, a business segment of Emerson, is the world's leading provider of heating, air conditioning and refrigeration solutions for residential, industrial and commercial applications. The group combines best-in-class technology with proven engineering, design, distribution, educational and monitoring services to provide customized, integrated climate-control solutions for customers worldwide. Emerson Climate Technologies' innovative solutions, which include industry-leading brands such as Copeland Scroll and White-Rodgers, improve human comfort, safeguard food, and protect the environment. For more information, visit [EmersonClimateAsia.com](http://EmersonClimateAsia.com).

## Our Vision

Emerson Climate Technologies, With Our Partners,  
Will Provide Global Solutions To Improve Human Comfort,  
Safeguard Food And Protect The Environment.

*Emerson Climate Technologies is pleased to offer the ZX platform refrigeration condensing units (CDU) specifically designed for medium temperature (ZX-MT & ZXB-MT), digital modulated variable capacity medium temperature (ZXD) and low temperature (ZXL-LT) refrigeration.*

*ZX series CDU has been highly successful in the Asian market and enjoys proven success with its energy savings and customer-friendly electronic features.*



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# ZX Platform Condensing Unit was designed based on three factors demanded by industry users:

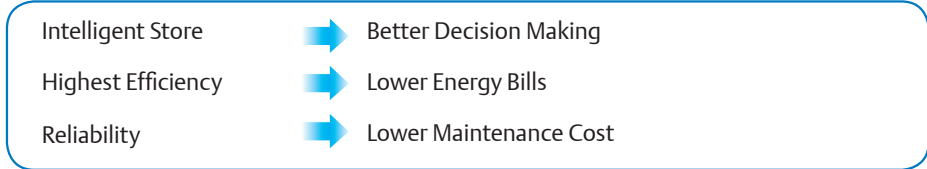
**Intelligent Store Solution** - A most innovative approach to enterprise facility management, Emerson's Intelligent Store™ architecture integrates hardware and services, to provide retailers a single view into their entire network of facilities and understanding what facilities actually cost to operate and maintain.

The Intelligent Store architecture transforms data from store equipment and controls into actionable insights. Designed to deliver value in both new and existing stores, Emerson aims to help the retailers:

- Make better decisions on recourses investment for greatest impact
- Gain accurate feedback and customized service to your specific needs
- Reduce operational costs and boost the profitability with most convenience

**Energy Efficiency** - Utilizing Copeland Scroll™ compressor technology, variable speed fan motor, large capacity condenser coil and advanced control algorithms, energy consumption is significantly reduced. End-users can save more than 20% on annual energy costs rather than using hermetic reciprocating units.

**Reliability** - Combining the proven reliability of Copeland Scroll™ compressors with advanced electronics controller and diagnostics, equipment reliability is greatly enhanced. Fault code alerts and fault code retrieval capabilities provide information to help improve speed and accuracy of system diagnostics. Integrated electronics provide protection against over-current, over-heating, incorrect phase rotation, compressor cycling, high pressure resets, low pressure cut-outs. It can also send out a warning message to an operator when there is a liquid floodback, which can prevent critical damage on the unit.



## ZXD Family



- Capacity modulation to control precise room temperature and humidity
- With real time monitoring of compressor operating conditions

## ZX, ZXB and ZXL Family

Proprietary electronic algorithms present advantage on diagnose, communication, and protection purposes. They are also fundamental to control fan speed, optimizing energy performance for local, seasonal ambient temperatures.



Intelligent Store Solution Module

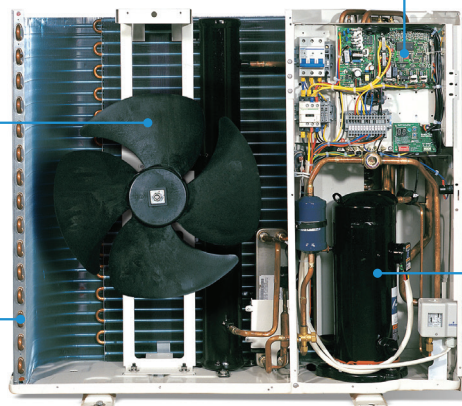
Built-in ZX Platform Controller

- Compressor Reverse Rotation
- Compressor Over Current
- Compressor Internal Motor Protector Trip
- Discharge Gas Over Heat
- High Pressure Cut Out
- Low Pressure Cut Out (only on MT series)
- Refrigerant Flood Back
- Compressor Minimum Off Time
- Internal Thermal Sensor Failure
- Intelligent Store Solution: Communication and Retail Store Monitoring

## Variable Speed PSC Fan Motors

- High Efficiency
- Ultra Quiet
- Optimizes Air-Flow for Maximum Heat Transfer

Oversized Condenser Coil for Maximum Heat Transfer



## Copeland Scroll Compressor Technology

- High Efficiency
- Ultra Quiet
- High Reliability

ZX Platform CDU Features

| Features  | Owner/Enterprise Benefits   |
|---|---|
| Intelligent Store Solution                                      | <ul style="list-style-type: none"> <li>• Retail store monitoring</li> <li>• Enhanced energy savings</li> <li>• High-end food safety by real time monitoring</li> </ul>  |
| Energy Saving   | <ul style="list-style-type: none"> <li>• Lower operating costs</li> </ul>   |
| Diagnostic protection capabilities                              | <ul style="list-style-type: none"> <li>• Reducing cost of nuisance calls</li> <li>• Extending life of your equipment</li> <li>• Reducing potential service costs</li> <li>• Maintaining your equipment to original standards, energy efficiency and temperature control</li> <li>• Having confidence in what your contractor is fixing</li> </ul> |
| Slim profile, lighter weight and optional wall mount capability | <ul style="list-style-type: none"> <li>• Lower installation costs</li> <li>• Improved appearance of your enterprise site</li> <li>• Avoids more costly solutions for potential location issues</li> </ul>   |
| Sound improvement   | <ul style="list-style-type: none"> <li>• Creating a more comfortable environment for guests</li> <li>• Beneficial for regions with noise ordinances</li> </ul>  |

## Nomenclature

| Z           | X   | L             | 0                                | 2   | 0                | E          | -               | T                | F | D | - | 4 | 5 | 1 |
|-------------|---|---------------|----------------------------------|---|------------------|------------|-----------------|------------------|---|---|---|---|---|---|
| Unit Family | Blank = Medium Temp<br>B = Medium Temp (R134a)<br>D = Digital/Medium Temp<br>L = Low Temp | 1.5 to 7.6 HP | E = Ester Oil<br>O = Mineral Oil | PFJ = 220V/240V- 1ph- 50 Hz<br>TFD = 380V/420V- 3ph- 50 Hz<br>TF5 = 200V/230V- 3ph- 60 Hz<br>200V/220V - 3ph - 50 Hz<br>TF7=380 - 3ph - 60 Hz | Bill of Material | Base Model | Electrical Code | Bill of Material |   |   |   |   |   |   |

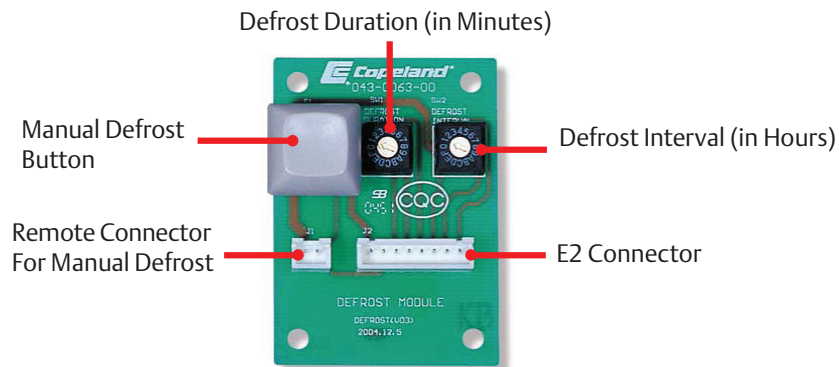
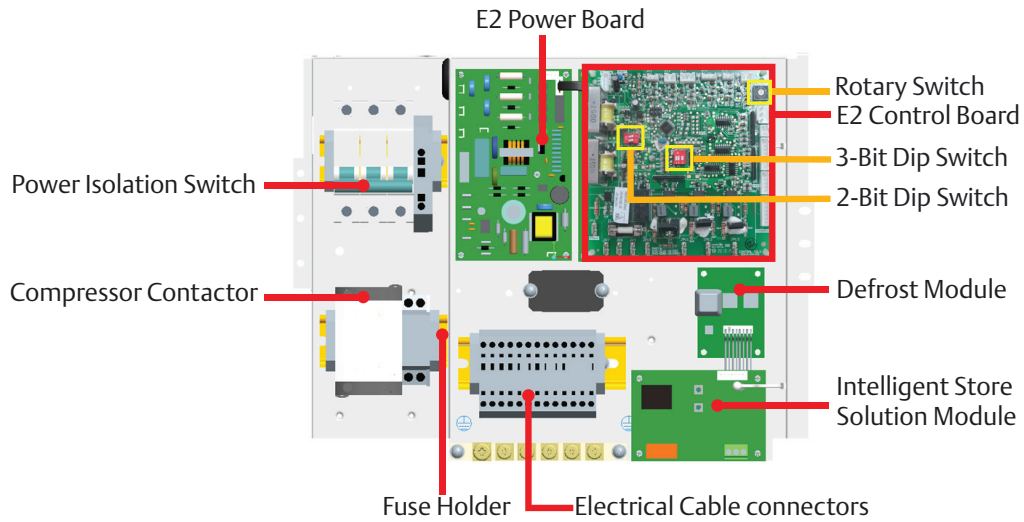
## Bill of Material

| CDU Family                           | ZX  |     |     | ZXB |     |     | ZXL |     |     |     | ZXD |     |     |
|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                      | 401 | 451 | 481 | 401 | 451 | 461 | 451 | 461 | 471 | 481 | 450 | 451 | 461 |
| Liquid Line Filter Dryer/Sight Glass | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   |
| Oil Separator                        |     | ✓   | ✓   |     | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   |
| Accumulator                          |     |     |     |     |     |     | ✓   | ✓   | ✓   | ✓   |     |     |     |
| Adjustable LP Switch                 | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   |     |     |     |
| Fixed LP Switch                      | ✓   | ✓   | ✓   |     |     |     |     |     |     |     | ✓   | ✓   | ✓   |
| E2 Controller                        | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   |     |     |     |
| Digital Scroll™ Controller           |     |     |     |     |     |     |     |     |     |     | ✓   | ✓   | ✓   |
| Fan Speed Controller                 | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   |     | ✓   | ✓   |
| Intelligent Store Solution Module    | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   |     |     |     |
| Circuit Breaker                      | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   |
| Sound Jacket                         | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   | ✓   |
| Low Ambient Kit                      |     |     | ✓   |     |     |     |     |     |     |     | ✓   |     |     |
| Defrost Module                       | ACC | ACC |     | ACC | ACC | ✓   | ACC | ✓   | ACC |     |     |     |     |
| Filter Drier                         |     |     |     |     |     |     |     |     | ACC |     |     |     |     |

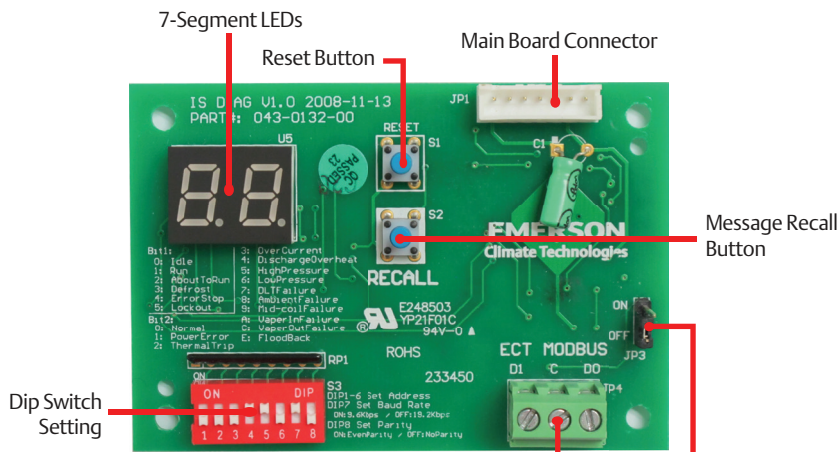
Note: ACC - Accessory

# Electronic Controller Assembly on a ZX Platform CDU

## ZX/ZXB/ZXL Controller Assembly



**Defrost Module**

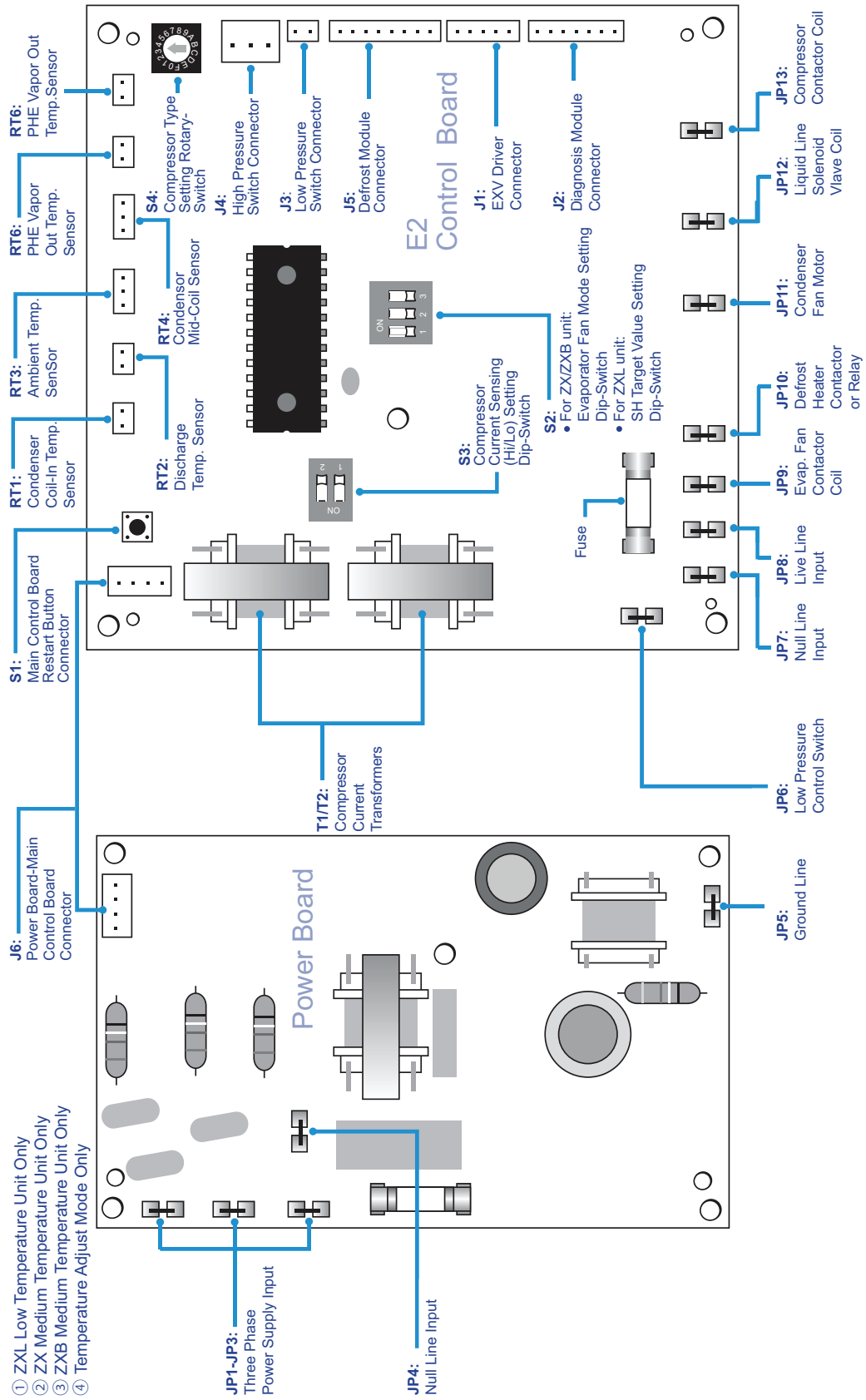


| ModBus Connector | XWeb Connection | E2 Facility Manager |
|------------------|-----------------|---------------------|
| D0               | RS485+          | RS485-              |
| D1               | RS485-          | RS485+              |

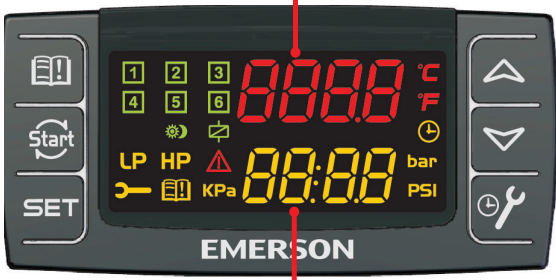
JP3 Termination Resistor Jumper  
 ON: Termination Resistor is Enabled  
 OFF: Termination Resistor is Disabled

**Intelligent Store™ Solution Module**

# Power Board and E2 Control Board Diagram



# ZXD Controller Assembly

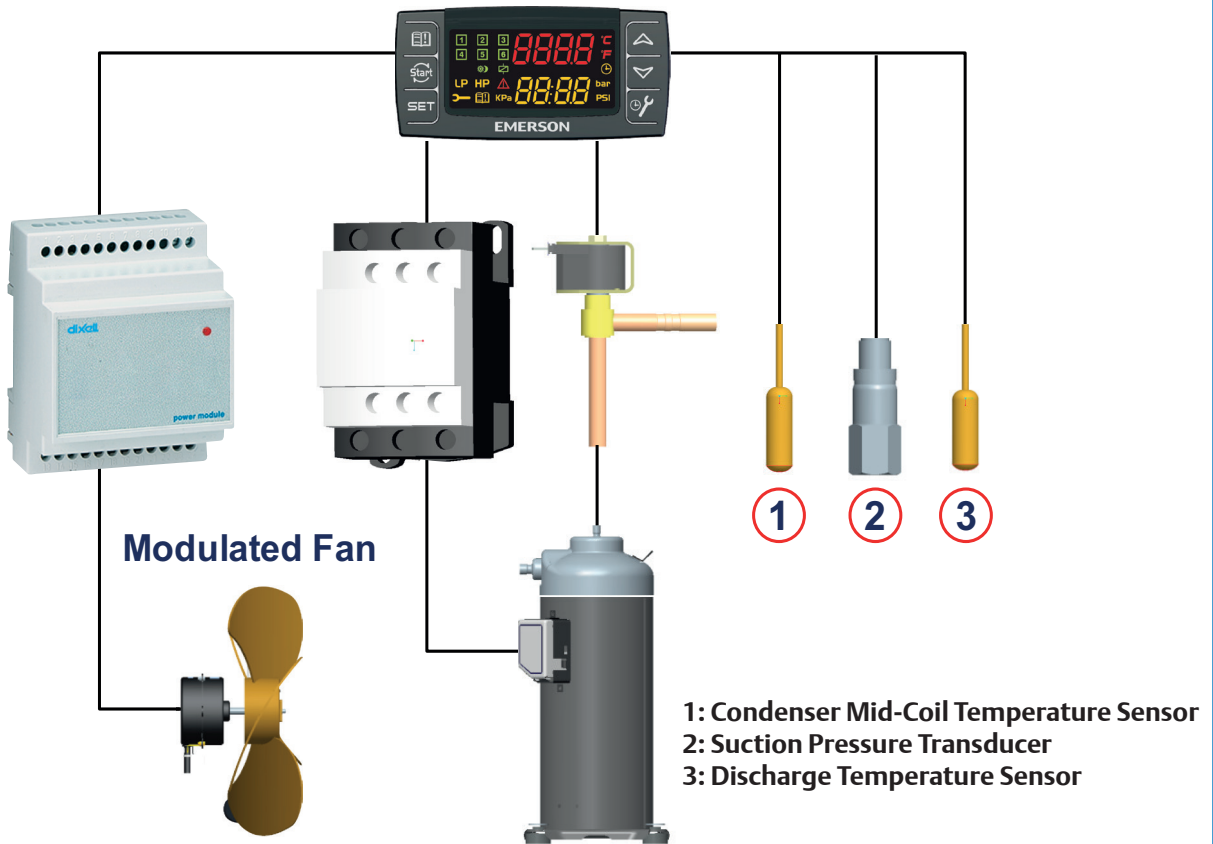


The diagram shows the Emerson ZXD Controller Assembly with the following components and labels:

- Enter Alarm:** Indicated by the top-left button with an alarm icon.
- Manual Restart:** Indicated by the middle-left button with a circular arrow icon.
- Setup Menu:** Indicated by the bottom-left button labeled "SET".
- Display:** A digital display showing suction pressure and suction temperature (top) and discharge pressure and condenser temperature (bottom).
- Control Buttons:** A vertical column of buttons on the right side, including up/down arrows, a hot key insert, and a maintenance/clock icon.

**Program Mode:** browses parameter codes or increase value  
**Hot Key Insert:** Hot key programming procedure  
**INFO Menu:** Press and release it to access INFO Menu  
**Program Mode:** below parameter codes or decrease value  
**Maintenance /Clock**

## Emerson Controller On ZXD



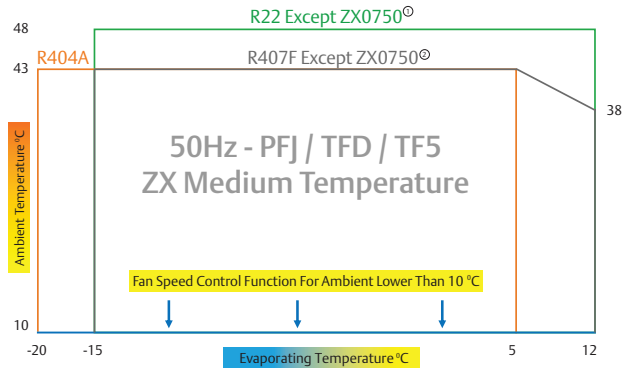


# Operating Envelopes

## ZX Family : Medium Temperature

ZX Medium Temperature at 50 Hz - PFJ / TFD / TF5

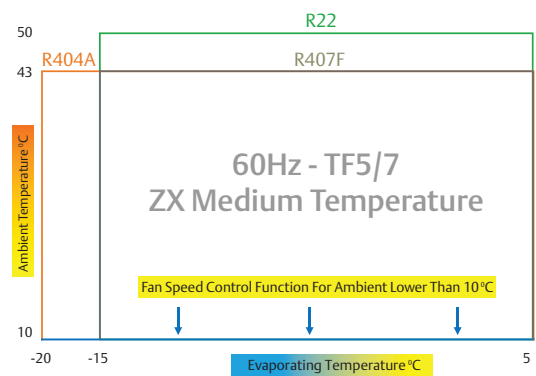
Refrigerant – R404A, R22, R407F  
Maximum Suction Gas Temperature: 20°C



NoteⓄ: For model ZX0750 (R22) Max Amb: 43°C, Max Evap: 5°C  
NoteⓄ: For model ZX0750 (R407F) Max Evap: 5°C

ZX Medium Temperature at 60 Hz - TF5/7

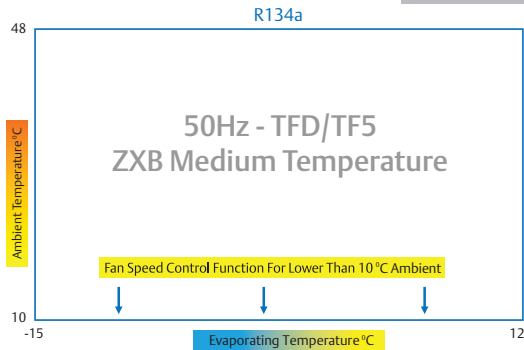
Refrigerant – R404A, R22, R407F  
Maximum Suction Gas Temperature: 20°C



## ZXB Family : Medium Temperature

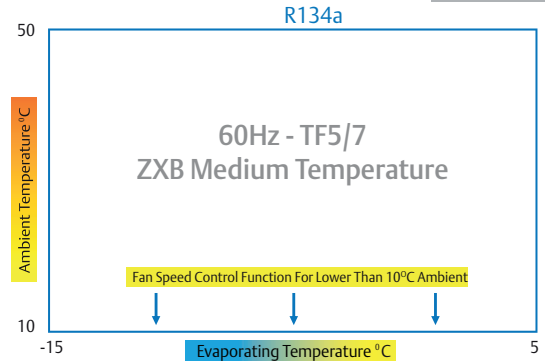
ZXB Medium Temperature at 50 Hz - TFD/TF5

Refrigerant – R134a  
Maximum Suction Gas Temperature: 20°C



ZXB Medium Temperature 60 Hz-TF5/7

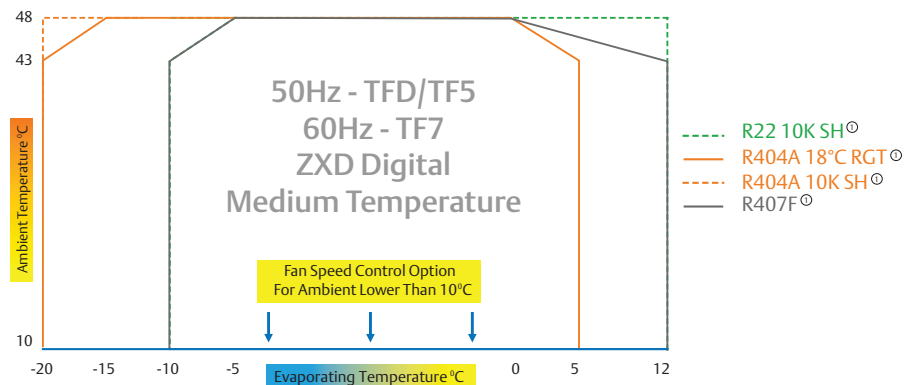
Refrigerant – R134a  
Maximum Suction Gas Temperature: 20°C



## ZXD Family : Digital Medium Temperature

ZXD Digital Medium Temperature at 50 Hz - TFD/TF5  
at 60 Hz - TF7

Refrigerant – R404A, R22, R407F  
Maximum Suction Gas Temperature: 20°C

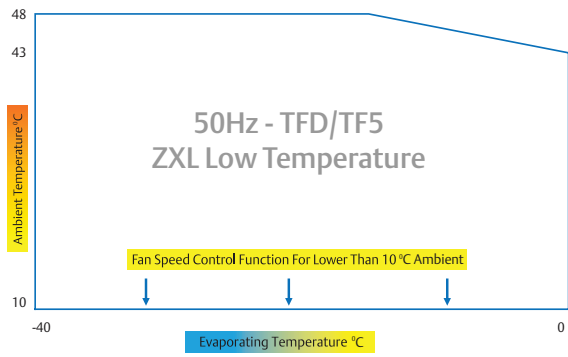


NoteⓄ: For model ZXD075/E Max Amb: 43°C, Max Evap: 5°C

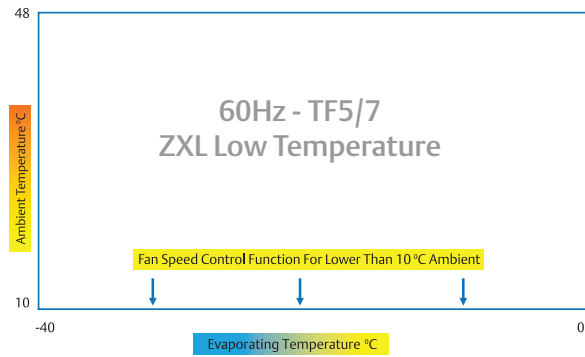
# Operating Envelopes

## ZXL Family : Low Temperature

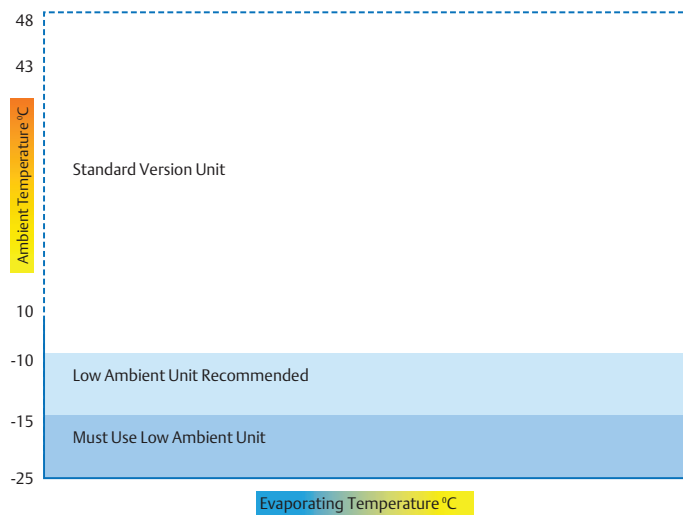
ZXL Low Temperature at 50 Hz - TFD/TF5 Refrigerant - R404A, R22, R407F  
Maximum Suction Gas Temperature: 20 °C



ZXL Low Temperature at 60 Hz - TF5/7 Refrigerant - R404A, R22, R407F  
Maximum Suction Gas Temperature: 20 °C



## Guideline for Using Low Ambient Units



Note: For applications under -25°C ambient temperature, please contact Application Engineering.

# ZX Family: Medium Temperature

## Capacity and Power (kW) at 50 Hz - PFJ/TFD/TF5

# R22

| Model               | Ambient Temperature (°C) | Capacity Evaporating Temperature (°C) |       |       |       |       |       |       | Power Evaporating Temperature (°C) |      |      |      |      |      |      |
|---------------------|--------------------------|---------------------------------------|-------|-------|-------|-------|-------|-------|------------------------------------|------|------|------|------|------|------|
|                     |                          | -15                                   | -10   | -5    | 0     | 5     | 10    | 12    | -15                                | -10  | -5   | 0    | 5    | 10   | 12   |
| ZX0200              | 27                       | 2.84                                  | 3.61  | 4.18  | 4.95  | 5.87  | 7.03  | 7.45  | 1.33                               | 1.37 | 1.41 | 1.47 | 1.53 | 1.70 | 1.79 |
|                     | 32                       | 2.65                                  | 3.33  | 4.01  | 4.75  | 5.61  | 6.54  | 6.96  | 1.45                               | 1.50 | 1.58 | 1.64 | 1.71 | 1.84 | 1.88 |
|                     | 38                       | 2.38                                  | 3.11  | 3.81  | 4.55  | 5.37  | 6.19  | 6.68  | 1.62                               | 1.74 | 1.83 | 1.87 | 1.91 | 2.03 | 2.08 |
|                     | 43                       | 1.93                                  | 2.74  | 3.48  | 4.23  | 5.06  | 5.99  | 6.33  | 1.78                               | 1.83 | 1.95 | 2.05 | 2.11 | 2.20 | 2.25 |
|                     | 48                       | 1.68                                  | 2.30  | 3.18  | 3.87  | 4.69  | 5.51  | 5.80  | 2.21                               | 2.31 | 2.44 | 2.51 | 2.54 | 2.55 | 2.64 |
| ZX0250 <sup>1</sup> | 27                       | 3.52                                  | 4.17  | 4.96  | 5.91  | 7.07  | 8.44  | 9.06  | 1.43                               | 1.49 | 1.55 | 1.60 | 1.62 | 1.60 | 1.58 |
|                     | 32                       | 3.35                                  | 4.02  | 4.79  | 5.68  | 6.73  | 7.96  | 8.50  | 1.59                               | 1.64 | 1.69 | 1.75 | 1.78 | 1.79 | 1.78 |
|                     | 38                       | 2.92                                  | 3.65  | 4.43  | 5.29  | 6.25  | 7.33  | 7.81  | 1.89                               | 1.92 | 1.96 | 2.01 | 2.06 | 2.08 | 2.08 |
|                     | 43                       | 2.39                                  | 3.20  | 4.02  | 4.88  | 5.79  | 6.79  | 7.22  | 2.22                               | 2.22 | 2.24 | 2.29 | 2.33 | 2.37 | 2.37 |
|                     | 48                       | 1.70                                  | 2.62  | 3.51  | 4.39  | 5.28  | 6.22  | 6.61  | 2.59                               | 2.55 | 2.56 | 2.58 | 2.62 | 2.66 | 2.67 |
| ZX0300              | 27                       | 4.30                                  | 5.20  | 6.28  | 7.57  | 9.09  | 10.22 | 10.80 | 1.95                               | 2.04 | 2.17 | 2.20 | 2.23 | 2.43 | 2.49 |
|                     | 32                       | 4.12                                  | 4.90  | 5.95  | 7.28  | 8.69  | 9.79  | 10.31 | 2.10                               | 2.20 | 2.32 | 2.34 | 2.46 | 2.70 | 2.77 |
|                     | 38                       | 3.68                                  | 4.62  | 5.65  | 6.85  | 8.29  | 9.06  | 9.63  | 2.37                               | 2.48 | 2.59 | 2.60 | 2.76 | 3.06 | 3.12 |
|                     | 43                       | 3.27                                  | 4.22  | 5.27  | 6.50  | 7.97  | 8.63  | 9.08  | 2.64                               | 2.75 | 2.84 | 2.94 | 3.04 | 3.32 | 3.36 |
|                     | 48                       | 2.40                                  | 3.55  | 4.65  | 5.67  | 6.86  | 7.97  | 8.50  | 2.98                               | 3.18 | 3.28 | 3.35 | 3.50 | 3.64 | 3.69 |
| ZX0400              | 27                       | 5.98                                  | 7.20  | 8.57  | 10.03 | 11.54 | 13.82 | 14.64 | 2.64                               | 2.71 | 2.83 | 2.98 | 3.08 | 3.34 | 3.36 |
|                     | 32                       | 5.46                                  | 6.73  | 8.13  | 9.62  | 11.16 | 13.01 | 13.85 | 2.81                               | 2.90 | 3.06 | 3.19 | 3.33 | 3.68 | 3.68 |
|                     | 38                       | 4.72                                  | 6.01  | 7.42  | 8.93  | 10.48 | 12.09 | 13.04 | 3.08                               | 3.27 | 3.39 | 3.49 | 3.65 | 4.09 | 4.07 |
|                     | 43                       | 4.09                                  | 5.37  | 6.78  | 8.27  | 9.80  | 11.61 | 12.25 | 3.29                               | 3.52 | 3.68 | 3.80 | 3.95 | 4.38 | 4.39 |
|                     | 48                       | 3.55                                  | 4.50  | 6.20  | 7.57  | 9.08  | 10.68 | 11.23 | 4.16                               | 4.46 | 4.49 | 4.72 | 4.80 | 5.07 | 5.18 |
| ZX0500 <sup>2</sup> | 27                       | 7.13                                  | 8.76  | 10.44 | 12.22 | 14.12 | 17.28 | 18.22 | 2.88                               | 3.03 | 3.18 | 3.29 | 3.47 | 4.16 | 4.28 |
|                     | 32                       | 6.77                                  | 8.31  | 9.96  | 11.72 | 13.68 | 16.62 | 17.47 | 3.37                               | 3.35 | 3.57 | 3.67 | 3.97 | 4.50 | 4.58 |
|                     | 38                       | 6.24                                  | 7.69  | 9.28  | 11.06 | 13.06 | 15.31 | 16.34 | 3.77                               | 3.87 | 4.07 | 4.27 | 4.47 | 4.98 | 5.10 |
|                     | 43                       | 5.44                                  | 6.80  | 8.36  | 10.15 | 12.21 | 14.60 | 15.47 | 4.27                               | 4.27 | 4.47 | 4.66 | 4.96 | 5.46 | 5.56 |
|                     | 48                       | 3.96                                  | 5.80  | 7.62  | 9.49  | 11.47 | 13.49 | 14.40 | 5.14                               | 5.21 | 5.44 | 5.61 | 5.80 | 6.01 | 6.04 |
| ZX0600 <sup>2</sup> | 27                       | 8.50                                  | 10.41 | 12.49 | 14.72 | 17.66 | 19.64 | 20.60 | 3.51                               | 3.70 | 3.88 | 4.16 | 4.43 | 4.98 | 5.32 |
|                     | 32                       | 7.71                                  | 9.93  | 11.71 | 13.94 | 16.30 | 18.87 | 20.10 | 3.88                               | 4.07 | 4.25 | 4.43 | 4.71 | 5.29 | 5.47 |
|                     | 38                       | 6.81                                  | 8.42  | 10.57 | 12.85 | 15.26 | 17.77 | 18.92 | 4.34                               | 4.53 | 4.71 | 4.90 | 5.08 | 5.86 | 5.98 |
|                     | 43                       | 5.91                                  | 7.23  | 9.40  | 11.78 | 14.26 | 16.33 | 17.86 | 4.90                               | 5.17 | 5.45 | 5.64 | 5.73 | 6.57 | 6.66 |
|                     | 48                       | 4.97                                  | 7.00  | 9.25  | 11.15 | 13.08 | 15.09 | 16.06 | 6.02                               | 6.22 | 6.46 | 6.69 | 6.96 | 7.22 | 7.45 |
| ZX0750 <sup>2</sup> | 27                       | 10.03                                 | 12.20 | 14.41 | 17.23 | 20.87 |       |       | 4.34                               | 4.54 | 4.76 | 4.98 | 5.22 |      |      |
|                     | 32                       | 9.45                                  | 11.24 | 13.90 | 16.63 | 20.21 |       |       | 4.77                               | 4.95 | 5.19 | 5.51 | 5.91 |      |      |
|                     | 38                       | 8.83                                  | 10.85 | 13.25 | 15.50 | 19.42 |       |       | 5.36                               | 5.53 | 5.83 | 6.25 | 6.80 |      |      |
|                     | 43                       | 8.18                                  | 10.00 | 12.29 | 14.30 | 18.49 |       |       | 5.95                               | 6.10 | 6.43 | 6.93 | 7.62 |      |      |
| ZX0760 <sup>2</sup> | 27                       | 10.23                                 | 12.44 | 14.70 | 17.60 | 21.29 | 25.49 | 27.01 | 4.25                               | 4.45 | 4.66 | 4.88 | 5.12 | 5.47 | 5.64 |
|                     | 32                       | 9.64                                  | 11.46 | 14.18 | 16.96 | 20.61 | 24.03 | 25.58 | 4.67                               | 4.85 | 5.09 | 5.40 | 5.79 | 5.86 | 5.97 |
|                     | 38                       | 9.01                                  | 11.07 | 13.52 | 15.80 | 19.81 | 22.85 | 24.65 | 5.26                               | 5.42 | 5.72 | 6.12 | 6.67 | 6.64 | 6.81 |
|                     | 43                       | 8.34                                  | 10.20 | 12.54 | 14.60 | 18.86 | 22.34 | 23.57 | 5.83                               | 5.98 | 6.30 | 6.79 | 7.47 | 7.34 | 7.48 |
|                     | 48                       | 7.24                                  | 8.55  | 11.46 | 14.09 | 17.47 | 20.55 | 21.61 | 6.79                               | 7.04 | 7.40 | 7.89 | 8.43 | 8.74 | 8.78 |

Notes: <sup>1</sup> Available on PFJ models only  
<sup>2</sup> Available on TFD models only  
The rating condition is based on a return gas temperature of 18.3°C.  
Power includes condenser fan.  
Ambient 38°C and 43°C are typical design conditions for unit selection.

# ZX Family: Medium Temperature

## Capacity and Power (kW) at 60 Hz - TF5/TF7

# R22

| Model  | Ambient Temperature (°C) | Capacity Evaporating Temperature (°C) |       |       |       |       | Power Evaporating Temperature (°C) |      |      |       |       |
|--------|--------------------------|---------------------------------------|-------|-------|-------|-------|------------------------------------|------|------|-------|-------|
|        |                          | -15                                   | -10   | -5    | 0     | 5     | -15                                | -10  | -5   | 0     | 5     |
| ZX0200 | 27                       | 3.62                                  | 4.42  | 5.36  | 6.43  | 7.59  | 1.69                               | 1.71 | 1.69 | 1.69  | 1.71  |
|        | 32                       | 3.41                                  | 4.22  | 5.17  | 6.20  | 7.29  | 1.89                               | 1.91 | 1.90 | 1.89  | 1.90  |
|        | 38                       | 2.88                                  | 3.77  | 4.75  | 5.78  | 6.84  | 2.13                               | 2.17 | 2.17 | 2.17  | 2.18  |
|        | 43                       | 2.20                                  | 3.19  | 4.24  | 5.31  | 6.38  | 2.35                               | 2.41 | 2.42 | 2.43  | 2.45  |
|        | 48                       | 1.30                                  | 2.43  | 3.58  | 4.73  | 5.84  | 2.59                               | 2.67 | 2.71 | 2.73  | 2.75  |
|        | 50                       | 0.88                                  | 2.07  | 3.27  | 4.46  | 5.60  | 2.69                               | 2.78 | 2.83 | 2.85  | 2.89  |
| ZX0300 | 27                       | 5.12                                  | 6.20  | 7.29  | 8.90  | 10.54 | 2.42                               | 2.53 | 2.69 | 2.73  | 2.77  |
|        | 32                       | 4.91                                  | 5.84  | 6.98  | 8.48  | 10.00 | 2.60                               | 2.73 | 2.88 | 2.90  | 3.05  |
|        | 38                       | 4.39                                  | 5.51  | 6.53  | 7.96  | 9.38  | 2.94                               | 3.08 | 3.21 | 3.22  | 3.42  |
|        | 43                       | 3.90                                  | 5.03  | 5.94  | 7.35  | 8.74  | 3.27                               | 3.41 | 3.52 | 3.65  | 3.77  |
|        | 48                       | 2.86                                  | 4.23  | 5.01  | 6.45  | 7.86  | 3.70                               | 3.94 | 4.07 | 4.15  | 4.34  |
|        | 50                       | 2.45                                  | 3.12  | 4.51  | 5.98  | 7.40  | 3.86                               | 4.16 | 4.29 | 4.36  | 4.57  |
| ZX0400 | 27                       | 7.36                                  | 8.83  | 10.52 | 12.37 | 14.31 | 3.25                               | 3.35 | 3.52 | 3.75  | 4.02  |
|        | 32                       | 7.06                                  | 8.54  | 10.21 | 12.02 | 13.92 | 3.55                               | 3.63 | 3.79 | 4.01  | 4.28  |
|        | 38                       | 6.37                                  | 7.87  | 9.55  | 11.34 | 13.20 | 4.05                               | 4.11 | 4.26 | 4.48  | 4.75  |
|        | 43                       | 5.62                                  | 7.16  | 8.86  | 10.66 | 12.50 | 4.55                               | 4.60 | 4.73 | 4.95  | 5.22  |
|        | 48                       | 4.82                                  | 6.41  | 8.14  | 9.96  | 11.81 | 5.09                               | 5.12 | 5.25 | 5.46  | 5.74  |
|        | 50                       | 4.50                                  | 6.12  | 7.87  | 9.70  | 11.55 | 5.30                               | 5.33 | 5.46 | 5.67  | 5.95  |
| ZX0500 | 27                       | 8.55                                  | 10.51 | 12.53 | 14.66 | 16.95 | 3.54                               | 3.72 | 3.91 | 4.05  | 4.27  |
|        | 32                       | 8.12                                  | 9.97  | 11.95 | 14.06 | 16.42 | 4.15                               | 4.13 | 4.39 | 4.52  | 4.88  |
|        | 38                       | 7.49                                  | 9.23  | 11.14 | 13.28 | 15.68 | 4.64                               | 4.76 | 5.00 | 5.25  | 5.49  |
|        | 43                       | 6.53                                  | 8.16  | 10.03 | 12.18 | 14.65 | 5.25                               | 5.25 | 5.49 | 5.74  | 6.10  |
|        | 48                       | 4.75                                  | 6.96  | 9.14  | 11.39 | 13.76 | 6.33                               | 6.40 | 6.69 | 6.90  | 7.13  |
|        | 50                       | 4.04                                  | 6.48  | 8.79  | 11.07 | 13.41 | 6.76                               | 6.87 | 7.16 | 7.37  | 7.55  |
| ZX0600 | 27                       | 10.20                                 | 12.49 | 14.99 | 17.66 | 21.19 | 4.39                               | 4.62 | 4.85 | 5.20  | 5.54  |
|        | 32                       | 9.25                                  | 11.92 | 14.05 | 16.73 | 19.56 | 4.85                               | 5.08 | 5.31 | 5.54  | 5.89  |
|        | 38                       | 8.17                                  | 10.10 | 12.68 | 15.42 | 18.31 | 5.43                               | 5.66 | 5.89 | 6.12  | 6.35  |
|        | 43                       | 7.09                                  | 8.68  | 11.28 | 14.14 | 17.11 | 6.12                               | 6.47 | 6.81 | 7.04  | 7.16  |
|        | 48                       | 5.96                                  | 8.40  | 11.10 | 13.38 | 15.70 | 7.53                               | 7.77 | 8.07 | 8.37  | 8.70  |
|        | 50                       | 5.51                                  | 8.29  | 11.03 | 13.08 | 15.13 | 8.09                               | 8.16 | 8.44 | 8.75  | 9.00  |
| ZX0750 | 27                       | 11.25                                 | 14.06 | 16.61 | 19.89 | 24.05 | 5.10                               | 5.34 | 5.59 | 5.86  | 6.14  |
|        | 32                       | 10.60                                 | 12.95 | 16.02 | 19.16 | 23.29 | 5.60                               | 5.82 | 6.11 | 6.48  | 6.95  |
|        | 38                       | 9.91                                  | 12.51 | 15.28 | 17.85 | 22.38 | 6.31                               | 6.51 | 6.86 | 7.35  | 8.00  |
|        | 43                       | 9.18                                  | 11.53 | 14.17 | 16.50 | 21.31 | 7.00                               | 7.17 | 7.56 | 8.15  | 8.96  |
|        | 48                       | 7.96                                  | 9.66  | 12.95 | 15.92 | 19.74 | 8.15                               | 8.45 | 8.88 | 9.47  | 10.12 |
|        | 50                       | 7.48                                  | 8.92  | 12.46 | 15.69 | 19.11 | 8.61                               | 8.96 | 9.41 | 10.00 | 10.58 |

**Note:** The rating condition is based on a return gas temperature of 18.3°C.  
 Power includes condenser fan.  
 Ambient 38°C and 43°C are typical design conditions for unit selection.

# ZX Family: Medium Temperature

## Capacity and Power (kW) at 50 Hz - PFJ/TFD/TF5

# R404A

| Model               | Ambient Temperature (°C) | Capacity Evaporating Temperature (°C) |       |       |       |       |       | Power Evaporating Temperature (°C) |      |      |      |      |      |
|---------------------|--------------------------|---------------------------------------|-------|-------|-------|-------|-------|------------------------------------|------|------|------|------|------|
|                     |                          | -20                                   | -15   | -10   | -5    | 0     | 5     | -20                                | -15  | -10  | -5   | 0    | 5    |
| ZX020E              | 27                       | 3.30                                  | 3.90  | 4.44  | 5.08  | 5.79  | 6.60  | 1.64                               | 1.67 | 1.70 | 1.76 | 1.84 | 1.96 |
|                     | 32                       | 2.85                                  | 3.39  | 3.92  | 4.48  | 5.08  | 5.76  | 1.79                               | 1.81 | 1.84 | 1.90 | 2.00 | 2.12 |
|                     | 38                       | 2.42                                  | 2.90  | 3.36  | 3.85  | 4.36  | 4.94  | 1.95                               | 1.99 | 2.02 | 2.07 | 2.16 | 2.26 |
|                     | 43                       | 1.94                                  | 2.43  | 2.89  | 3.34  | 3.81  | 4.30  | 2.14                               | 2.18 | 2.22 | 2.27 | 2.34 | 2.41 |
| ZX025E <sup>1</sup> | 27                       | 3.22                                  | 3.95  | 4.67  | 5.45  | 6.37  | 7.50  | 1.71                               | 1.76 | 1.79 | 1.84 | 1.90 | 1.96 |
|                     | 32                       | 2.96                                  | 3.68  | 4.36  | 5.09  | 5.95  | 7.00  | 1.93                               | 1.96 | 2.00 | 2.04 | 2.08 | 2.13 |
|                     | 38                       | 2.61                                  | 3.31  | 3.96  | 4.64  | 5.41  | 6.37  | 2.19                               | 2.23 | 2.26 | 2.29 | 2.32 | 2.35 |
|                     | 43                       | 1.96                                  | 2.64  | 3.26  | 3.89  | 4.61  | 5.48  | 2.59                               | 2.65 | 2.69 | 2.71 | 2.73 | 2.76 |
| ZX030E              | 27                       | 4.04                                  | 4.87  | 5.81  | 6.85  | 7.99  | 9.23  | 2.14                               | 2.19 | 2.24 | 2.32 | 2.42 | 2.55 |
|                     | 32                       | 3.75                                  | 4.52  | 5.39  | 6.35  | 7.40  | 8.55  | 2.40                               | 2.44 | 2.50 | 2.57 | 2.67 | 2.81 |
|                     | 38                       | 3.39                                  | 4.08  | 4.85  | 5.72  | 6.67  | 7.69  | 2.72                               | 2.75 | 2.80 | 2.88 | 3.00 | 3.15 |
|                     | 43                       | 3.06                                  | 3.69  | 4.39  | 5.17  | 6.03  | 6.97  | 3.06                               | 3.09 | 3.14 | 3.21 | 3.33 | 3.50 |
| ZX040E              | 27                       | 5.52                                  | 6.57  | 7.70  | 8.95  | 10.37 | 12.02 | 2.72                               | 2.86 | 3.02 | 3.17 | 3.31 | 3.36 |
|                     | 32                       | 5.10                                  | 6.10  | 7.13  | 8.24  | 9.47  | 10.87 | 3.03                               | 3.15 | 3.31 | 3.46 | 3.54 | 3.68 |
|                     | 38                       | 4.61                                  | 5.60  | 6.57  | 7.57  | 8.64  | 9.85  | 3.45                               | 3.58 | 3.71 | 3.85 | 3.97 | 4.03 |
|                     | 43                       | 3.98                                  | 5.00  | 5.95  | 6.89  | 7.83  | 8.85  | 3.87                               | 4.00 | 4.12 | 4.23 | 4.33 | 4.38 |
| ZX050E <sup>2</sup> | 27                       | 7.49                                  | 9.05  | 10.67 | 12.31 | 13.93 | 15.51 | 3.65                               | 3.73 | 3.86 | 4.02 | 4.25 | 4.53 |
|                     | 32                       | 6.56                                  | 8.12  | 9.76  | 11.43 | 13.10 | 14.74 | 4.11                               | 4.20 | 4.32 | 4.50 | 4.72 | 5.00 |
|                     | 38                       | 5.56                                  | 7.07  | 8.67  | 10.32 | 11.98 | 13.63 | 4.59                               | 4.68 | 4.79 | 4.96 | 5.16 | 5.42 |
|                     | 43                       | 4.88                                  | 6.28  | 7.79  | 9.37  | 10.98 | 12.58 | 5.11                               | 5.17 | 5.27 | 5.40 | 5.59 | 5.81 |
| ZX060E <sup>2</sup> | 27                       | 8.24                                  | 9.72  | 11.47 | 13.30 | 15.69 | 18.48 | 3.69                               | 3.84 | 4.06 | 4.33 | 4.62 | 4.93 |
|                     | 32                       | 7.53                                  | 9.06  | 10.72 | 12.58 | 14.72 | 17.20 | 4.40                               | 4.54 | 4.75 | 5.01 | 5.28 | 5.56 |
|                     | 38                       | 6.74                                  | 8.25  | 9.83  | 11.55 | 13.48 | 15.69 | 4.93                               | 5.05 | 5.25 | 5.47 | 5.72 | 5.98 |
|                     | 43                       | 5.90                                  | 7.48  | 9.07  | 10.74 | 12.57 | 14.63 | 5.59                               | 5.69 | 5.85 | 6.06 | 6.28 | 6.51 |
| ZX075E <sup>2</sup> | 27                       | 9.04                                  | 10.86 | 12.75 | 15.07 | 17.76 | 20.13 | 4.08                               | 4.26 | 4.50 | 4.80 | 5.13 | 5.46 |
|                     | 32                       | 8.33                                  | 10.01 | 11.82 | 13.86 | 16.20 | 18.92 | 4.88                               | 5.03 | 5.27 | 5.54 | 5.86 | 6.17 |
|                     | 38                       | 7.30                                  | 8.74  | 10.62 | 12.47 | 14.54 | 16.92 | 5.46                               | 5.61 | 5.82 | 6.06 | 6.35 | 6.63 |
|                     | 43                       | 6.26                                  | 7.93  | 9.61  | 11.38 | 13.32 | 15.50 | 6.20                               | 6.32 | 6.49 | 6.71 | 6.96 | 7.22 |
| ZX076E <sup>2</sup> | 27                       | 9.22                                  | 11.07 | 13.00 | 15.37 | 18.12 | 20.53 | 4.00                               | 4.17 | 4.41 | 4.70 | 5.03 | 5.35 |
|                     | 32                       | 8.50                                  | 10.21 | 12.06 | 14.14 | 16.53 | 19.30 | 4.78                               | 4.93 | 5.16 | 5.43 | 5.74 | 6.05 |
|                     | 38                       | 7.45                                  | 8.91  | 10.83 | 12.72 | 14.83 | 17.26 | 5.35                               | 5.50 | 5.70 | 5.94 | 6.22 | 6.50 |
|                     | 43                       | 6.39                                  | 8.09  | 9.80  | 11.61 | 13.59 | 15.81 | 6.07                               | 6.19 | 6.36 | 6.57 | 6.82 | 7.07 |

**Notes:** <sup>1</sup> Available on PFJ models only  
<sup>2</sup> Available on TFD models only  
The rating condition is based on a return gas temperature of 18.3°C.  
Power includes condenser fan.  
Ambient 38°C and 43°C are typical design conditions for unit selection.

# ZX Family: Medium Temperature

## Capacity and Power (kW) at 60 Hz - TF5/TF7

# R404A

| Model  | Ambient Temperature (°C) | Capacity Evaporating Temperature (°C) |       |       |       |       |       | Power Evaporating Temperature (°C) |      |      |      |      |      |
|--------|--------------------------|---------------------------------------|-------|-------|-------|-------|-------|------------------------------------|------|------|------|------|------|
|        |                          | -20                                   | -15   | -10   | -5    | 0     | 5     | -20                                | -15  | -10  | -5   | 0    | 5    |
| ZX020E | 27                       | 3.50                                  | 4.26  | 4.98  | 5.77  | 6.71  | 7.89  | 1.84                               | 1.87 | 1.90 | 1.95 | 2.00 | 2.05 |
|        | 32                       | 3.15                                  | 3.94  | 4.66  | 5.40  | 6.25  | 7.30  | 2.09                               | 2.10 | 2.12 | 2.16 | 2.20 | 2.24 |
|        | 38                       | 2.69                                  | 3.52  | 4.24  | 4.93  | 5.69  | 6.60  | 2.42                               | 2.42 | 2.44 | 2.47 | 2.50 | 2.54 |
|        | 43                       | 2.22                                  | 3.09  | 3.82  | 4.48  | 5.17  | 5.97  | 2.71                               | 2.71 | 2.73 | 2.76 | 2.81 | 2.85 |
| ZX030E | 27                       | 5.02                                  | 5.98  | 7.05  | 8.17  | 9.29  | 10.36 | 2.69                               | 2.80 | 2.92 | 3.05 | 3.17 | 3.29 |
|        | 32                       | 4.62                                  | 5.56  | 6.63  | 7.75  | 8.88  | 9.97  | 2.98                               | 3.06 | 3.16 | 3.26 | 3.36 | 3.45 |
|        | 38                       | 4.14                                  | 5.02  | 6.02  | 7.10  | 8.18  | 9.23  | 3.38                               | 3.46 | 3.55 | 3.65 | 3.75 | 3.85 |
|        | 43                       | 3.78                                  | 4.56  | 5.47  | 6.46  | 7.47  | 8.44  | 3.74                               | 3.84 | 3.95 | 4.08 | 4.21 | 4.33 |
| ZX040E | 27                       | 6.71                                  | 8.02  | 9.60  | 11.30 | 13.00 | 14.59 | 3.72                               | 3.79 | 3.89 | 3.99 | 4.10 | 4.18 |
|        | 32                       | 6.46                                  | 7.70  | 9.20  | 10.81 | 12.42 | 13.90 | 3.84                               | 3.92 | 4.02 | 4.14 | 4.26 | 4.35 |
|        | 38                       | 5.90                                  | 7.05  | 8.45  | 9.95  | 11.43 | 12.76 | 4.32                               | 4.40 | 4.50 | 4.62 | 4.74 | 4.84 |
|        | 43                       | 5.36                                  | 6.43  | 7.73  | 9.12  | 10.49 | 11.69 | 4.89                               | 4.95 | 5.05 | 5.16 | 5.27 | 5.37 |
| ZX050E | 27                       | 8.10                                  | 9.70  | 11.55 | 13.54 | 15.53 | 17.38 | 4.42                               | 4.63 | 4.86 | 5.11 | 5.35 | 5.57 |
|        | 32                       | 8.05                                  | 9.56  | 11.33 | 13.21 | 15.09 | 16.83 | 4.59                               | 4.78 | 4.99 | 5.22 | 5.45 | 5.66 |
|        | 38                       | 7.46                                  | 8.86  | 10.50 | 12.25 | 13.99 | 15.58 | 5.10                               | 5.27 | 5.48 | 5.70 | 5.93 | 6.13 |
|        | 43                       | 6.81                                  | 8.10  | 9.63  | 11.26 | 12.88 | 14.33 | 5.62                               | 5.80 | 6.01 | 6.24 | 6.47 | 6.69 |
| ZX060E | 27                       | 9.84                                  | 11.77 | 13.96 | 16.31 | 18.74 | 21.15 | 5.06                               | 5.24 | 5.49 | 5.76 | 6.01 | 6.20 |
|        | 32                       | 9.25                                  | 11.09 | 13.16 | 15.36 | 17.60 | 19.79 | 5.39                               | 5.58 | 5.82 | 6.09 | 6.35 | 6.55 |
|        | 38                       | 8.30                                  | 10.09 | 12.06 | 14.13 | 16.19 | 18.16 | 6.09                               | 6.25 | 6.48 | 6.74 | 6.99 | 7.19 |
|        | 43                       | 7.32                                  | 9.11  | 11.04 | 13.03 | 14.98 | 16.82 | 6.82                               | 6.96 | 7.17 | 7.41 | 7.65 | 7.83 |
| ZX075E | 27                       | 11.16                                 | 13.39 | 14.92 | 17.64 | 19.93 | 22.58 | 4.80                               | 5.00 | 5.69 | 6.06 | 6.54 | 6.96 |
|        | 32                       | 10.29                                 | 12.35 | 13.84 | 16.23 | 18.18 | 21.23 | 5.74                               | 5.92 | 6.66 | 7.00 | 7.46 | 7.87 |
|        | 38                       | 9.01                                  | 10.78 | 12.43 | 14.60 | 16.31 | 18.99 | 6.42                               | 6.60 | 7.35 | 7.66 | 8.09 | 8.45 |
|        | 43                       | 7.73                                  | 9.79  | 11.25 | 13.33 | 14.95 | 17.39 | 7.28                               | 7.43 | 8.20 | 8.48 | 8.87 | 9.19 |

**Note:** The rating condition is based on a return gas temperature of 18.3°C.  
 Power includes condenser fan.  
 Ambient 38°C and 43°C are typical design conditions for unit selection.

# ZX Family: Medium Temperature

Capacity and Power (kW) at 50 Hz - PFJ/TFD/TF5

# R407F

| Model  | Ambient Temperature (°C) | Capacity Evaporating Temperature (°C) |       |       |       |       |       |       | Power Evaporating Temperature (°C) |      |      |      |      |      |      |
|--------|--------------------------|---------------------------------------|-------|-------|-------|-------|-------|-------|------------------------------------|------|------|------|------|------|------|
|        |                          | -15                                   | -10   | -5    | 0     | 5     | 10    | 12    | -15                                | -10  | -5   | 0    | 5    | 10   | 12   |
| ZX020E | 27                       | 3.63                                  | 4.32  | 5.07  | 5.79  | 6.45  | 7.24  | 7.62  | 1.55                               | 1.67 | 1.76 | 1.87 | 1.99 | 2.06 | 2.14 |
|        | 32                       | 3.36                                  | 3.98  | 4.69  | 5.39  | 6.07  | 6.90  | 7.30  | 1.77                               | 1.85 | 1.93 | 2.05 | 2.22 | 2.35 | 2.46 |
|        | 38                       | 2.79                                  | 3.35  | 4.02  | 4.74  | 5.46  | 6.35  | 6.78  | 2.11                               | 2.18 | 2.27 | 2.44 | 2.70 | 2.92 | 3.06 |
|        | 43                       | 2.21                                  | 2.74  | 3.40  | 4.14  | 4.91  |       |       | 2.40                               | 2.48 | 2.61 | 2.84 | 3.20 |      |      |
| ZX025E | 27                       | 3.91                                  | 4.83  | 5.80  | 6.82  | 7.91  | 9.05  | 9.53  | 1.72                               | 1.85 | 1.92 | 1.96 | 2.00 | 2.09 | 2.14 |
|        | 32                       | 3.63                                  | 4.45  | 5.35  | 6.35  | 7.44  | 8.63  | 9.13  | 1.97                               | 2.05 | 2.10 | 2.15 | 2.23 | 2.38 | 2.46 |
|        | 38                       | 3.01                                  | 3.74  | 4.59  | 5.58  | 6.69  | 7.94  | 8.48  | 2.35                               | 2.41 | 2.47 | 2.56 | 2.71 | 2.96 | 3.09 |
|        | 43                       | 2.39                                  | 3.06  | 3.88  | 4.87  | 6.03  |       |       | 2.67                               | 2.74 | 2.83 | 2.98 | 3.22 |      |      |
| ZX030E | 27                       | 5.01                                  | 6.13  | 7.30  | 8.53  | 9.88  | 11.32 | 11.91 | 2.20                               | 2.39 | 2.47 | 2.58 | 2.64 | 2.78 | 2.85 |
|        | 32                       | 4.64                                  | 5.65  | 6.75  | 7.94  | 9.31  | 10.79 | 11.41 | 2.44                               | 2.63 | 2.67 | 2.77 | 2.97 | 3.16 | 3.27 |
|        | 38                       | 3.85                                  | 4.75  | 5.79  | 6.97  | 8.37  | 9.93  | 10.60 | 2.86                               | 3.00 | 3.11 | 3.23 | 3.57 | 3.90 | 4.07 |
|        | 43                       | 3.06                                  | 3.88  | 4.89  | 6.09  | 7.53  |       |       | 3.11                               | 3.28 | 3.43 | 3.49 | 4.03 |      |      |
| ZX040E | 27                       | 6.81                                  | 8.21  | 9.64  | 11.09 | 12.65 | 14.37 | 15.13 | 2.87                               | 3.18 | 3.26 | 3.38 | 3.41 | 3.57 | 3.66 |
|        | 32                       | 6.31                                  | 7.57  | 8.91  | 10.33 | 11.91 | 13.70 | 14.49 | 3.18                               | 3.49 | 3.53 | 3.64 | 3.84 | 4.06 | 4.20 |
|        | 38                       | 5.24                                  | 6.36  | 7.64  | 9.07  | 10.71 | 12.61 | 13.46 | 3.72                               | 3.98 | 4.10 | 4.24 | 4.61 | 5.01 | 5.23 |
|        | 43                       | 4.16                                  | 5.20  | 6.46  | 7.92  | 9.64  |       |       | 4.04                               | 4.36 | 4.53 | 4.59 | 5.21 |      |      |
| ZX050E | 27                       | 8.11                                  | 10.02 | 11.73 | 13.53 | 15.71 | 18.56 | 19.95 | 3.62                               | 3.70 | 3.92 | 4.20 | 4.46 | 4.62 | 4.64 |
|        | 32                       | 7.42                                  | 9.44  | 11.19 | 12.96 | 15.04 | 17.74 | 19.05 | 4.07                               | 4.16 | 4.39 | 4.69 | 4.96 | 5.14 | 5.16 |
|        | 38                       | 6.32                                  | 8.44  | 10.22 | 11.95 | 13.91 | 16.41 | 17.61 | 4.61                               | 4.71 | 4.95 | 5.26 | 5.54 | 5.73 | 5.76 |
|        | 43                       | 5.32                                  | 7.53  | 9.33  | 11.01 | 12.87 |       |       | 5.12                               | 5.22 | 5.46 | 5.77 | 6.06 |      |      |
| ZX060E | 27                       | 9.24                                  | 11.22 | 13.02 | 15.16 | 18.23 | 21.53 | 23.15 | 3.93                               | 3.87 | 4.07 | 4.36 | 4.79 | 4.96 | 4.98 |
|        | 32                       | 8.46                                  | 10.57 | 12.42 | 14.51 | 17.45 | 20.57 | 22.09 | 4.50                               | 4.48 | 4.62 | 5.00 | 5.38 | 5.57 | 5.60 |
|        | 38                       | 7.20                                  | 9.45  | 11.35 | 13.38 | 16.14 | 19.03 | 20.43 | 5.05                               | 5.02 | 5.19 | 5.50 | 6.07 | 6.27 | 6.30 |
|        | 43                       | 6.07                                  | 8.44  | 10.36 | 12.33 | 14.93 |       |       | 5.56                               | 5.51 | 5.66 | 5.98 | 6.44 |      |      |
| ZX075E | 27                       | 10.07                                 | 12.23 | 14.19 | 16.52 | 19.68 |       |       | 4.32                               | 4.22 | 4.39 | 4.65 | 5.08 |      |      |
|        | 32                       | 9.23                                  | 11.52 | 13.53 | 15.82 | 18.85 |       |       | 4.92                               | 4.89 | 5.04 | 5.47 | 5.81 |      |      |
|        | 38                       | 7.85                                  | 10.31 | 12.37 | 14.59 | 17.43 |       |       | 5.68                               | 5.64 | 5.80 | 6.16 | 6.74 |      |      |
|        | 43                       | 6.62                                  | 9.20  | 11.29 | 13.45 | 16.12 |       |       | 6.38                               | 6.29 | 6.46 | 6.81 | 7.28 |      |      |
| ZX076E | 27                       | 10.28                                 | 12.48 | 14.48 | 16.85 | 20.08 | 23.72 | 25.50 | 4.44                               | 4.31 | 4.43 | 4.64 | 5.08 | 5.26 | 5.28 |
|        | 32                       | 9.41                                  | 11.75 | 13.80 | 16.14 | 19.23 | 22.66 | 24.34 | 5.03                               | 5.01 | 5.14 | 5.60 | 5.93 | 6.14 | 6.16 |
|        | 38                       | 8.01                                  | 10.51 | 12.62 | 14.88 | 17.78 | 20.96 | 22.51 | 5.97                               | 5.94 | 6.07 | 6.44 | 7.08 | 7.34 | 7.38 |
|        | 43                       | 6.75                                  | 9.38  | 11.52 | 13.71 | 16.44 |       |       | 6.84                               | 6.72 | 6.90 | 7.26 | 7.76 |      |      |

**Notes:** The rating condition is based on a return gas temperature of 18.3°C.  
 Power includes condenser fan.  
 Ambient 38°C and 43°C are typical design conditions for unit selection.

# ZX Family: Medium Temperature

Capacity and Power (kW) at 60 Hz - TF5/TF7

# R407F

| Model  | Ambient Temperature (°C) | Capacity Evaporating Temperature (°C) |       |       |       |       | Power Evaporating Temperature (°C) |      |      |      |      |
|--------|--------------------------|---------------------------------------|-------|-------|-------|-------|------------------------------------|------|------|------|------|
|        |                          | -15                                   | -10   | -5    | 0     | 5     | -15                                | -10  | -5   | 0    | 5    |
| ZX020E | 27                       | 4.51                                  | 5.36  | 6.27  | 7.14  | 7.92  | 2.01                               | 2.11 | 2.20 | 2.28 | 2.41 |
|        | 32                       | 4.17                                  | 4.93  | 5.78  | 6.63  | 7.44  | 2.29                               | 2.33 | 2.41 | 2.50 | 2.68 |
|        | 38                       | 3.45                                  | 4.13  | 4.95  | 5.81  | 6.68  | 2.73                               | 2.74 | 2.83 | 2.97 | 3.25 |
|        | 43                       | 2.73                                  | 3.37  | 4.18  | 5.07  | 6.00  | 3.10                               | 3.11 | 3.24 | 3.45 | 3.85 |
| ZX030E | 27                       | 6.23                                  | 7.60  | 9.03  | 10.51 | 12.14 | 2.86                               | 3.02 | 3.08 | 3.15 | 3.19 |
|        | 32                       | 5.76                                  | 6.99  | 8.32  | 9.77  | 11.41 | 3.17                               | 3.31 | 3.33 | 3.38 | 3.58 |
|        | 38                       | 4.77                                  | 5.86  | 7.13  | 8.56  | 10.24 | 3.70                               | 3.76 | 3.87 | 3.93 | 4.30 |
|        | 43                       | 3.78                                  | 4.78  | 6.01  | 7.46  | 9.20  | 4.01                               | 4.11 | 4.26 | 4.24 | 4.84 |
| ZX040E | 27                       | 8.47                                  | 10.18 | 11.91 | 13.66 | 15.54 | 3.72                               | 4.01 | 4.07 | 4.13 | 4.12 |
|        | 32                       | 7.83                                  | 9.36  | 10.99 | 12.70 | 14.60 | 4.12                               | 4.39 | 4.39 | 4.43 | 4.63 |
|        | 38                       | 6.49                                  | 7.85  | 9.41  | 11.13 | 13.11 | 4.82                               | 5.00 | 5.10 | 5.16 | 5.56 |
|        | 43                       | 5.14                                  | 6.41  | 7.94  | 9.70  | 11.78 | 5.22                               | 5.46 | 5.62 | 5.57 | 6.26 |
| ZX050E | 27                       | 10.08                                 | 12.42 | 14.50 | 16.67 | 19.30 | 4.71                               | 4.67 | 4.89 | 5.13 | 5.40 |
|        | 32                       | 9.21                                  | 11.68 | 13.80 | 15.94 | 18.45 | 5.27                               | 5.23 | 5.47 | 5.71 | 5.99 |
|        | 38                       | 7.82                                  | 10.42 | 12.58 | 14.67 | 17.03 | 5.97                               | 5.91 | 6.16 | 6.39 | 6.68 |
|        | 43                       | 6.58                                  | 9.28  | 11.47 | 13.49 | 15.71 | 6.61                               | 6.54 | 6.77 | 7.00 | 7.28 |
| ZX060E | 27                       | 11.49                                 | 13.91 | 16.09 | 18.68 | 22.39 | 5.11                               | 4.88 | 5.08 | 5.32 | 5.80 |
|        | 32                       | 10.50                                 | 13.08 | 15.31 | 17.85 | 21.40 | 5.83                               | 5.63 | 5.76 | 6.09 | 6.49 |
|        | 38                       | 8.92                                  | 11.67 | 13.97 | 16.43 | 19.75 | 6.54                               | 6.31 | 6.45 | 6.69 | 7.31 |
|        | 43                       | 7.50                                  | 10.40 | 12.73 | 15.11 | 18.23 | 7.17                               | 6.91 | 7.03 | 7.26 | 7.75 |
| ZX075E | 27                       | 12.53                                 | 15.16 | 17.54 | 20.36 | 24.18 | 5.61                               | 5.32 | 5.48 | 5.68 | 6.14 |
|        | 32                       | 11.45                                 | 14.25 | 16.69 | 19.45 | 23.11 | 6.38                               | 6.16 | 6.28 | 6.67 | 7.01 |
|        | 38                       | 9.72                                  | 12.72 | 15.23 | 17.91 | 21.33 | 7.35                               | 7.09 | 7.21 | 7.49 | 8.12 |
|        | 43                       | 8.18                                  | 11.33 | 13.87 | 16.47 | 19.69 | 8.23                               | 7.89 | 8.02 | 8.27 | 8.75 |

**Note:** The rating condition is based on a return gas temperature of 18.3°C.  
 Power includes condenser fan.  
 Ambient 38°C and 43°C are typical design conditions for unit selection.



# ZXB Family: Medium Temperature

## Capacity and Power (kW) at 50 Hz - TFD/TF5

# R134a

| Model   | Ambient Temperature (°C) | Capacity Evaporating Temperature (°C) |      |       |       |       |       |       | Power Evaporating Temperature (°C) |      |      |      |      |      |      |
|---------|--------------------------|---------------------------------------|------|-------|-------|-------|-------|-------|------------------------------------|------|------|------|------|------|------|
|         |                          | -15                                   | -10  | -5    | 0     | 5     | 10    | 12    | -15                                | -10  | -5   | 0    | 5    | 10   | 12   |
| ZXB015E | 27                       | 2.42                                  | 2.92 | 3.48  | 4.11  | 4.83  | 5.65  | 6.01  | 1.10                               | 1.08 | 1.09 | 1.11 | 1.14 | 1.16 | 1.16 |
|         | 32                       | 2.37                                  | 2.87 | 3.42  | 4.03  | 4.72  | 5.52  | 5.86  | 1.20                               | 1.18 | 1.18 | 1.21 | 1.25 | 1.28 | 1.29 |
|         | 38                       | 2.26                                  | 2.76 | 3.30  | 3.89  | 4.56  | 5.31  | 5.64  | 1.34                               | 1.32 | 1.33 | 1.36 | 1.41 | 1.46 | 1.47 |
|         | 43                       | 2.14                                  | 2.64 | 3.18  | 3.76  | 4.40  | 5.13  | 5.44  | 1.49                               | 1.47 | 1.48 | 1.52 | 1.58 | 1.64 | 1.66 |
|         | 48                       | 2.01                                  | 2.52 | 3.05  | 3.61  | 4.24  | 4.94  | 5.24  | 1.67                               | 1.64 | 1.66 | 1.71 | 1.77 | 1.84 | 1.87 |
| ZXB020E | 27                       | 2.74                                  | 3.41 | 4.14  | 4.94  | 5.78  | 6.67  | 7.03  | 1.08                               | 1.07 | 1.10 | 1.14 | 1.19 | 1.23 | 1.25 |
|         | 32                       | 2.63                                  | 3.29 | 4.01  | 4.80  | 5.63  | 6.51  | 6.87  | 1.21                               | 1.20 | 1.23 | 1.27 | 1.33 | 1.38 | 1.40 |
|         | 38                       | 2.47                                  | 3.12 | 3.84  | 4.61  | 5.43  | 6.29  | 6.64  | 1.38                               | 1.38 | 1.41 | 1.46 | 1.52 | 1.58 | 1.60 |
|         | 43                       | 2.36                                  | 2.99 | 3.70  | 4.45  | 5.26  | 6.10  | 6.44  | 1.53                               | 1.53 | 1.57 | 1.62 | 1.69 | 1.75 | 1.78 |
|         | 48                       | 2.27                                  | 2.90 | 3.58  | 4.32  | 5.10  | 5.92  | 6.25  | 1.69                               | 1.69 | 1.73 | 1.78 | 1.85 | 1.93 | 1.95 |
| ZXB025E | 27                       | 2.98                                  | 3.70 | 4.46  | 5.28  | 6.19  | 7.20  | 7.63  | 1.25                               | 1.28 | 1.34 | 1.42 | 1.52 | 1.62 | 1.66 |
|         | 32                       | 2.89                                  | 3.59 | 4.33  | 5.14  | 6.02  | 7.00  | 7.43  | 1.37                               | 1.41 | 1.48 | 1.56 | 1.66 | 1.75 | 1.79 |
|         | 38                       | 2.79                                  | 3.47 | 4.18  | 4.95  | 5.80  | 6.75  | 7.16  | 1.53                               | 1.59 | 1.67 | 1.76 | 1.86 | 1.96 | 1.99 |
|         | 43                       | 2.72                                  | 3.37 | 4.05  | 4.79  | 5.61  | 6.52  | 6.91  | 1.67                               | 1.75 | 1.85 | 1.96 | 2.07 | 2.17 | 2.20 |
|         | 48                       | 2.65                                  | 3.27 | 3.92  | 4.62  | 5.40  | 6.27  | 6.65  | 1.83                               | 1.94 | 2.06 | 2.18 | 2.30 | 2.41 | 2.44 |
| ZXB030E | 27                       | 3.74                                  | 4.53 | 5.45  | 6.49  | 7.66  | 8.95  | 9.49  | 1.50                               | 1.54 | 1.62 | 1.73 | 1.83 | 1.93 | 1.96 |
|         | 32                       | 3.59                                  | 4.39 | 5.29  | 6.30  | 7.43  | 8.66  | 9.18  | 1.65                               | 1.69 | 1.77 | 1.89 | 2.02 | 2.16 | 2.21 |
|         | 38                       | 3.43                                  | 4.22 | 5.10  | 6.08  | 7.15  | 8.31  | 8.80  | 1.85                               | 1.87 | 1.96 | 2.09 | 2.25 | 2.43 | 2.50 |
|         | 43                       | 3.29                                  | 4.07 | 4.94  | 5.88  | 6.90  | 8.01  | 8.47  | 2.05                               | 2.05 | 2.14 | 2.28 | 2.46 | 2.67 | 2.75 |
|         | 48                       | 3.14                                  | 3.91 | 4.75  | 5.66  | 6.64  | 7.67  | 8.11  | 2.30                               | 2.29 | 2.36 | 2.51 | 2.70 | 2.94 | 3.03 |
| ZXB035E | 27                       | 5.09                                  | 6.04 | 7.16  | 8.40  | 9.73  | 11.13 | 11.70 | 1.88                               | 2.06 | 2.21 | 2.35 | 2.52 | 2.75 | 2.87 |
|         | 32                       | 4.93                                  | 5.88 | 6.97  | 8.17  | 9.46  | 10.81 | 11.35 | 2.02                               | 2.23 | 2.40 | 2.56 | 2.75 | 3.00 | 3.13 |
|         | 38                       | 4.76                                  | 5.67 | 6.72  | 7.88  | 9.11  | 10.37 | 10.88 | 2.22                               | 2.45 | 2.65 | 2.84 | 3.05 | 3.32 | 3.46 |
|         | 43                       | 4.61                                  | 5.50 | 6.51  | 7.61  | 8.78  | 9.97  | 10.45 | 2.42                               | 2.69 | 2.90 | 3.11 | 3.34 | 3.64 | 3.78 |
|         | 48                       | 4.47                                  | 5.32 | 6.28  | 7.32  | 8.41  | 9.53  | 9.97  | 2.71                               | 2.99 | 3.23 | 3.46 | 3.71 | 4.03 | 4.18 |
| ZXB040E | 27                       | 5.48                                  | 6.65 | 7.93  | 9.34  | 10.88 | 12.55 | 13.26 | 2.19                               | 2.22 | 2.33 | 2.49 | 2.70 | 2.95 | 3.05 |
|         | 32                       | 5.30                                  | 6.43 | 7.68  | 9.05  | 10.54 | 12.18 | 12.87 | 2.32                               | 2.38 | 2.51 | 2.68 | 2.90 | 3.15 | 3.26 |
|         | 38                       | 5.11                                  | 6.18 | 7.38  | 8.69  | 10.13 | 11.71 | 12.38 | 2.53                               | 2.62 | 2.77 | 2.95 | 3.17 | 3.42 | 3.52 |
|         | 43                       | 4.94                                  | 5.97 | 7.11  | 8.37  | 9.77  | 11.30 | 11.95 | 2.80                               | 2.91 | 3.06 | 3.25 | 3.47 | 3.70 | 3.80 |
|         | 48                       | 4.76                                  | 5.73 | 6.82  | 8.03  | 9.36  | 10.84 | 11.47 | 3.18                               | 3.31 | 3.47 | 3.66 | 3.87 | 4.09 | 4.18 |
| ZXB050E | 27                       | 6.23                                  | 7.53 | 9.10  | 10.95 | 13.06 | 15.47 | 16.51 | 2.45                               | 2.52 | 2.66 | 2.84 | 3.05 | 3.28 | 3.37 |
|         | 32                       | 6.21                                  | 7.52 | 9.07  | 10.86 | 12.90 | 15.19 | 16.18 | 2.72                               | 2.83 | 2.99 | 3.19 | 3.42 | 3.65 | 3.74 |
|         | 38                       | 6.17                                  | 7.45 | 8.93  | 10.63 | 12.54 | 14.67 | 15.59 | 3.07                               | 3.21 | 3.41 | 3.63 | 3.87 | 4.10 | 4.19 |
|         | 43                       | 6.01                                  | 7.24 | 8.65  | 10.23 | 12.01 | 13.98 | 14.82 | 3.34                               | 3.52 | 3.73 | 3.98 | 4.22 | 4.46 | 4.55 |
|         | 48                       | 5.65                                  | 6.80 | 8.10  | 9.56  | 11.18 | 12.96 | 13.72 | 3.57                               | 3.78 | 4.02 | 4.28 | 4.54 | 4.78 | 4.86 |
| ZXB055E | 27                       | 7.34                                  | 8.70 | 10.14 | 11.76 | 13.65 | 15.91 | 16.94 | 2.92                               | 3.13 | 3.38 | 3.63 | 3.89 | 4.14 | 4.24 |
|         | 32                       | 7.12                                  | 8.46 | 9.86  | 11.42 | 13.23 | 15.41 | 16.40 | 3.12                               | 3.35 | 3.61 | 3.89 | 4.19 | 4.49 | 4.61 |
|         | 38                       | 6.87                                  | 8.16 | 9.49  | 10.97 | 12.69 | 14.75 | 15.69 | 3.43                               | 3.66 | 3.93 | 4.23 | 4.56 | 4.90 | 5.05 |
|         | 43                       | 6.69                                  | 7.94 | 9.21  | 10.61 | 12.24 | 14.19 | 15.09 | 3.76                               | 3.98 | 4.25 | 4.56 | 4.90 | 5.28 | 5.43 |
|         | 48                       | 6.59                                  | 7.78 | 8.98  | 10.30 | 11.83 | 13.67 | 14.51 | 4.20                               | 4.39 | 4.65 | 4.96 | 5.32 | 5.71 | 5.87 |

**Notes:** The rating condition is based on the return gas temperature of 18.3°C.  
 Power includes condenser fan.  
 Ambient 38°C and 43°C are typical design conditions for unit selection.

# ZXB Family: Medium Temperature

Capacity and Power (kW) at 60 Hz - TF5/TF7

# R134a

| Model   | Ambient Temperature (°C) | Capacity Evaporating Temperature (°C) |       |       |       |       | Power Evaporating Temperature (°C) |      |      |      |      |
|---------|--------------------------|---------------------------------------|-------|-------|-------|-------|------------------------------------|------|------|------|------|
|         |                          | -15                                   | -10   | -5    | 0     | 5     | -15                                | -10  | -5   | 0    | 5    |
| ZXB015E | 27                       | 2.84                                  | 3.49  | 4.20  | 4.97  | 5.82  | 1.30                               | 1.31 | 1.34 | 1.31 | 1.37 |
|         | 32                       | 2.78                                  | 3.41  | 4.11  | 4.86  | 5.69  | 1.41                               | 1.42 | 1.46 | 1.42 | 1.50 |
|         | 38                       | 2.68                                  | 3.29  | 3.96  | 4.69  | 5.50  | 1.58                               | 1.60 | 1.64 | 1.60 | 1.69 |
|         | 43                       | 2.56                                  | 3.16  | 3.81  | 4.52  | 5.30  | 1.76                               | 1.78 | 1.83 | 1.78 | 1.89 |
|         | 48                       | 2.42                                  | 2.99  | 3.61  | 4.30  | 5.06  | 1.97                               | 1.99 | 2.05 | 1.99 | 2.12 |
|         | 50                       | 2.35                                  | 2.91  | 3.53  | 4.20  | 4.94  | 2.07                               | 2.09 | 2.15 | 2.09 | 2.23 |
| ZXB020E | 27                       | 3.31                                  | 4.11  | 4.99  | 5.95  | 6.97  | 1.29                               | 1.32 | 1.37 | 1.32 | 1.43 |
|         | 32                       | 3.17                                  | 3.96  | 4.84  | 5.79  | 6.80  | 1.45                               | 1.48 | 1.54 | 1.48 | 1.60 |
|         | 38                       | 2.98                                  | 3.77  | 4.63  | 5.56  | 6.55  | 1.66                               | 1.70 | 1.76 | 1.70 | 1.83 |
|         | 43                       | 2.84                                  | 3.61  | 4.46  | 5.37  | 6.34  | 1.85                               | 1.89 | 1.95 | 1.89 | 2.03 |
|         | 48                       | 2.74                                  | 3.49  | 4.32  | 5.21  | 6.15  | 2.04                               | 2.08 | 2.15 | 2.08 | 2.24 |
|         | 50                       | 2.72                                  | 3.46  | 4.28  | 5.16  | 6.09  | 2.12                               | 2.16 | 2.23 | 2.16 | 2.32 |
| ZXB025E | 27                       | 3.60                                  | 4.46  | 5.37  | 6.37  | 7.46  | 1.54                               | 1.61 | 1.71 | 1.61 | 1.83 |
|         | 32                       | 3.49                                  | 4.33  | 5.23  | 6.19  | 7.26  | 1.70                               | 1.78 | 1.89 | 1.78 | 2.00 |
|         | 38                       | 3.37                                  | 4.18  | 5.04  | 5.97  | 7.00  | 1.91                               | 2.01 | 2.13 | 2.01 | 2.25 |
|         | 43                       | 3.28                                  | 4.06  | 4.88  | 5.78  | 6.76  | 2.11                               | 2.23 | 2.36 | 2.23 | 2.49 |
|         | 48                       | 3.19                                  | 3.94  | 4.72  | 5.57  | 6.51  | 2.34                               | 2.48 | 2.63 | 2.48 | 2.77 |
|         | 50                       | 3.16                                  | 3.89  | 4.66  | 5.49  | 6.41  | 2.43                               | 2.59 | 2.74 | 2.59 | 2.90 |
| ZXB030E | 27                       | 4.51                                  | 5.47  | 6.57  | 7.83  | 9.24  | 1.86                               | 1.96 | 2.08 | 1.96 | 2.21 |
|         | 32                       | 4.33                                  | 5.29  | 6.38  | 7.60  | 8.96  | 2.03                               | 2.14 | 2.28 | 2.14 | 2.44 |
|         | 38                       | 4.14                                  | 5.09  | 6.15  | 7.33  | 8.62  | 2.25                               | 2.36 | 2.52 | 2.36 | 2.72 |
|         | 43                       | 3.97                                  | 4.91  | 5.95  | 7.09  | 8.33  | 2.48                               | 2.58 | 2.75 | 2.58 | 2.97 |
|         | 48                       | 3.79                                  | 4.72  | 5.73  | 6.83  | 8.00  | 2.76                               | 2.85 | 3.02 | 2.85 | 3.26 |
|         | 50                       | 3.71                                  | 4.64  | 5.64  | 6.71  | 7.86  | 2.89                               | 2.98 | 3.15 | 2.98 | 3.40 |
| ZXB035E | 27                       | 6.14                                  | 7.32  | 8.66  | 10.15 | 11.75 | 2.43                               | 2.60 | 2.79 | 2.60 | 3.88 |
|         | 32                       | 5.97                                  | 7.12  | 8.44  | 9.88  | 11.42 | 2.64                               | 2.84 | 3.05 | 2.84 | 3.46 |
|         | 38                       | 5.76                                  | 6.88  | 8.14  | 9.52  | 10.99 | 2.92                               | 3.16 | 3.40 | 3.16 | 2.99 |
|         | 43                       | 5.58                                  | 6.66  | 7.87  | 9.19  | 10.59 | 3.22                               | 3.48 | 3.75 | 3.48 | 2.62 |
|         | 48                       | 5.39                                  | 6.41  | 7.57  | 8.82  | 10.14 | 3.59                               | 3.88 | 4.17 | 3.88 | 2.26 |
|         | 50                       | 5.30                                  | 6.31  | 7.44  | 8.66  | 9.94  | 3.76                               | 4.07 | 4.37 | 4.07 | 2.12 |
| ZXB040E | 27                       | 6.61                                  | 8.02  | 9.57  | 11.26 | 13.12 | 2.68                               | 2.81 | 3.00 | 2.81 | 4.03 |
|         | 32                       | 6.39                                  | 7.76  | 9.26  | 10.91 | 12.71 | 2.87                               | 3.03 | 3.24 | 3.03 | 3.63 |
|         | 38                       | 6.16                                  | 7.46  | 8.89  | 10.48 | 12.22 | 3.16                               | 3.34 | 3.56 | 3.34 | 3.19 |
|         | 43                       | 5.96                                  | 7.20  | 8.57  | 10.10 | 11.78 | 3.51                               | 3.69 | 3.92 | 3.69 | 2.81 |
|         | 48                       | 5.74                                  | 6.91  | 8.22  | 9.68  | 11.29 | 3.99                               | 4.18 | 4.41 | 4.18 | 2.42 |
|         | 50                       | 5.64                                  | 6.78  | 8.07  | 9.50  | 11.08 | 4.23                               | 4.43 | 4.66 | 4.43 | 2.26 |
| ZXB050E | 27                       | 7.51                                  | 9.08  | 10.98 | 13.20 | 15.76 | 3.04                               | 3.20 | 3.42 | 3.20 | 3.68 |
|         | 32                       | 7.49                                  | 9.07  | 10.94 | 13.09 | 15.55 | 3.41                               | 3.61 | 3.85 | 3.61 | 4.12 |
|         | 38                       | 7.44                                  | 8.98  | 10.77 | 12.82 | 15.12 | 3.87                               | 4.11 | 4.38 | 4.11 | 4.66 |
|         | 43                       | 7.25                                  | 8.73  | 10.43 | 12.34 | 14.48 | 4.24                               | 4.50 | 4.80 | 4.50 | 5.09 |
|         | 48                       | 6.82                                  | 8.20  | 9.77  | 11.53 | 13.48 | 4.56                               | 4.85 | 5.16 | 4.85 | 5.47 |
|         | 50                       | 6.55                                  | 7.89  | 9.40  | 11.08 | 12.95 | 4.67                               | 4.97 | 5.29 | 4.97 | 5.61 |
| ZXB055E | 27                       | 8.85                                  | 10.50 | 12.23 | 14.18 | 16.46 | 3.78                               | 4.07 | 4.38 | 4.07 | 4.69 |
|         | 32                       | 8.59                                  | 10.20 | 11.89 | 13.77 | 15.96 | 4.04                               | 4.36 | 4.70 | 4.36 | 5.05 |
|         | 38                       | 8.28                                  | 9.84  | 11.45 | 13.23 | 15.30 | 4.41                               | 4.74 | 5.10 | 4.74 | 5.50 |
|         | 43                       | 8.07                                  | 9.57  | 11.11 | 12.80 | 14.76 | 4.80                               | 5.12 | 5.50 | 5.12 | 5.91 |
|         | 48                       | 7.95                                  | 9.38  | 10.83 | 12.42 | 14.26 | 5.30                               | 5.61 | 5.98 | 5.61 | 6.41 |
|         | 50                       | 7.93                                  | 9.34  | 10.75 | 12.29 | 14.08 | 5.54                               | 5.84 | 6.21 | 5.84 | 6.64 |

**Notes:** Based on the return gas temperature of 18.3°C.  
 Power includes condenser fan.  
 Ambient 38°C and 43°C are typical design conditions for unit selection.

# ZXD Family: Digital Medium Temperature

## Capacity and Power (kW) at 50 Hz - TFD/TF5

# R22

| Model   | Ambient Temperature (°C) | Capacity Evaporating Temperature (°C) |       |       |       |       |       | Power Evaporating Temperature (°C) |      |      |      |      |      |
|---------|--------------------------|---------------------------------------|-------|-------|-------|-------|-------|------------------------------------|------|------|------|------|------|
|         |                          | -10                                   | -5    | 0     | 5     | 10    | 12    | -10                                | -5   | 0    | 5    | 10   | 12   |
| ZXD0400 | 27                       | 7.73                                  | 9.28  | 10.88 | 12.42 | 14.67 | 15.18 | 2.66                               | 2.77 | 2.92 | 3.02 | 3.30 | 3.38 |
|         | 32                       | 7.29                                  | 8.91  | 10.61 | 12.33 | 14.29 | 14.98 | 2.84                               | 3.00 | 3.12 | 3.26 | 3.60 | 3.70 |
|         | 38                       | 6.39                                  | 7.95  | 9.68  | 11.44 | 13.22 | 14.14 | 3.20                               | 3.32 | 3.42 | 3.57 | 4.01 | 4.10 |
|         | 43                       | 5.71                                  | 7.27  | 8.97  | 10.70 | 12.69 | 13.29 | 3.44                               | 3.60 | 3.72 | 3.86 | 4.29 | 4.40 |
|         | 48                       |                                       | 6.55  | 8.06  | 9.76  | 11.56 | 12.17 |                                    | 4.40 | 4.62 | 4.70 | 4.96 | 5.07 |
| ZXD0500 | 27                       | 8.76                                  | 10.44 | 12.22 | 14.12 | 17.28 | 18.22 | 3.03                               | 3.18 | 3.29 | 3.47 | 3.95 | 4.10 |
|         | 32                       | 8.31                                  | 9.96  | 11.72 | 13.68 | 16.62 | 17.47 | 3.35                               | 3.57 | 3.67 | 3.97 | 4.50 | 4.58 |
|         | 38                       | 7.69                                  | 9.28  | 11.06 | 13.06 | 15.31 | 16.34 | 3.87                               | 4.07 | 4.27 | 4.47 | 4.98 | 5.10 |
|         | 43                       | 6.80                                  | 8.36  | 10.15 | 12.21 | 14.60 | 15.47 | 4.27                               | 4.47 | 4.66 | 4.96 | 5.46 | 5.56 |
|         | 48                       |                                       | 7.62  | 9.49  | 11.47 | 13.49 | 14.40 |                                    | 5.44 | 5.61 | 5.80 | 6.01 | 6.04 |
| ZXD0600 | 27                       | 10.41                                 | 12.49 | 14.72 | 17.66 | 19.64 | 20.60 | 3.70                               | 3.88 | 4.16 | 4.50 | 4.70 | 4.81 |
|         | 32                       | 9.93                                  | 11.71 | 13.94 | 16.30 | 18.87 | 20.10 | 4.07                               | 4.25 | 4.43 | 4.75 | 5.29 | 5.47 |
|         | 38                       | 8.90                                  | 10.57 | 12.85 | 15.26 | 17.77 | 18.92 | 4.53                               | 4.71 | 4.90 | 5.23 | 5.86 | 5.98 |
|         | 43                       | 7.60                                  | 9.40  | 11.78 | 14.26 | 16.33 | 17.86 | 5.17                               | 5.45 | 5.64 | 6.10 | 6.57 | 6.66 |
|         | 48                       |                                       | 9.25  | 11.15 | 13.08 | 15.09 | 16.06 |                                    | 6.46 | 6.69 | 6.96 | 7.22 | 7.30 |
| ZXD0750 | 27                       | 12.37                                 | 14.91 | 17.73 | 20.87 |       |       | 4.54                               | 4.76 | 4.98 | 5.22 |      |      |
|         | 32                       | 11.24                                 | 13.90 | 16.96 | 20.21 |       |       | 4.95                               | 5.19 | 5.51 | 5.91 |      |      |
|         | 38                       | 10.85                                 | 13.25 | 16.08 | 19.42 |       |       | 5.53                               | 5.83 | 6.25 | 6.80 |      |      |
|         | 43                       |                                       | 12.29 | 15.09 | 18.49 |       |       |                                    | 6.43 | 6.93 | 7.62 |      |      |
| ZXD0760 | 27                       | 12.62                                 | 15.21 | 18.08 | 21.29 | 24.47 | 25.93 | 4.45                               | 4.66 | 4.88 | 5.12 | 5.47 | 5.64 |
|         | 32                       | 11.46                                 | 14.18 | 16.96 | 20.61 | 23.07 | 24.56 | 4.85                               | 5.09 | 5.40 | 5.79 | 5.86 | 5.97 |
|         | 38                       | 11.07                                 | 13.52 | 15.80 | 19.81 | 21.94 | 23.66 | 5.42                               | 5.72 | 6.12 | 6.67 | 6.64 | 6.81 |
|         | 43                       | 10.20                                 | 12.54 | 14.60 | 18.86 | 21.45 | 22.63 | 5.98                               | 6.30 | 6.79 | 7.47 | 7.34 | 7.48 |
|         | 48                       |                                       | 11.46 | 14.09 | 17.47 | 19.73 | 20.75 |                                    | 7.40 | 7.89 | 8.43 | 8.74 | 8.78 |

**Notes:** The rating condition is based on suction superheat of 10K.  
 Power includes condenser fan.  
 Ambient 38°C and 43°C are typical design conditions for unit selection.

# ZXD Family: Digital Medium Temperature

## Capacity and Power (kW) at 50 Hz - TFD/TF5

# R404A

| Model   | Ambient Temperature (°C) | Capacity Evaporating Temperature (°C) |       |       |       |       |       | Power Evaporating Temperature (°C) |      |      |      |      |      |
|---------|--------------------------|---------------------------------------|-------|-------|-------|-------|-------|------------------------------------|------|------|------|------|------|
|         |                          | -20                                   | -15   | -10   | -5    | 0     | 5     | -20                                | -15  | -10  | -5   | 0    | 5    |
| ZXD040E | 27                       | 5.92                                  | 7.11  | 8.35  | 9.64  | 11.01 | 12.46 | 2.70                               | 2.85 | 3.02 | 3.21 | 3.43 | 3.68 |
|         | 32                       | 5.53                                  | 6.69  | 7.87  | 9.11  | 10.40 | 11.75 | 2.99                               | 3.12 | 3.27 | 3.44 | 3.64 | 3.87 |
|         | 38                       | 4.90                                  | 6.00  | 7.12  | 8.27  | 9.45  | 10.68 | 3.49                               | 3.59 | 3.72 | 3.87 | 4.04 | 4.24 |
|         | 43                       | 4.23                                  | 5.28  | 6.33  | 7.40  | 8.48  | 9.59  | 4.02                               | 4.10 | 4.21 | 4.34 | 4.50 | 4.68 |
|         | 48                       | 3.56                                  | 4.56  | 5.54  | 6.53  | 7.51  |       | 4.55                               | 4.61 | 4.70 | 4.81 | 4.96 |      |
| ZXD050E | 27                       | 7.49                                  | 9.05  | 10.67 | 12.31 | 13.93 | 15.51 | 3.65                               | 3.73 | 3.86 | 4.02 | 4.25 | 4.53 |
|         | 32                       | 6.56                                  | 8.12  | 9.76  | 11.43 | 13.10 | 14.74 | 4.11                               | 4.20 | 4.32 | 4.50 | 4.72 | 5.00 |
|         | 38                       | 5.56                                  | 7.07  | 8.67  | 10.32 | 11.98 | 13.63 | 4.59                               | 4.68 | 4.79 | 4.96 | 5.16 | 5.42 |
|         | 43                       | 4.88                                  | 6.28  | 7.79  | 9.37  | 10.98 | 12.58 | 5.11                               | 5.17 | 5.27 | 5.40 | 5.59 | 5.81 |
|         | 48                       | 4.20                                  | 5.49  | 6.91  | 8.42  | 9.98  |       | 5.63                               | 5.67 | 5.75 | 5.85 | 6.01 |      |
| ZXD060E | 27                       | 8.24                                  | 9.72  | 11.47 | 13.30 | 15.69 | 18.48 | 3.69                               | 3.84 | 4.06 | 4.33 | 4.62 | 4.93 |
|         | 32                       | 7.58                                  | 9.06  | 10.72 | 12.58 | 14.72 | 17.20 | 4.40                               | 4.54 | 4.75 | 5.01 | 5.28 | 5.56 |
|         | 38                       | 6.74                                  | 8.25  | 9.83  | 11.55 | 13.48 | 15.69 | 4.93                               | 5.05 | 5.25 | 5.47 | 5.72 | 5.98 |
|         | 43                       | 5.90                                  | 7.48  | 9.07  | 10.74 | 12.57 | 14.63 | 5.59                               | 5.69 | 5.85 | 6.06 | 6.28 | 6.51 |
|         | 48                       | 5.06                                  | 6.71  | 8.31  | 9.93  | 11.66 |       | 6.26                               | 6.32 | 6.46 | 6.64 | 6.83 |      |
| ZXD075E | 27                       | 9.04                                  | 10.86 | 12.75 | 15.07 | 17.76 | 20.13 | 4.08                               | 4.26 | 4.50 | 4.80 | 5.13 | 5.46 |
|         | 32                       | 8.33                                  | 10.01 | 11.82 | 13.86 | 16.20 | 18.92 | 4.88                               | 5.03 | 5.27 | 5.54 | 5.86 | 6.17 |
|         | 38                       | 7.30                                  | 8.74  | 10.62 | 12.47 | 14.54 | 16.92 | 5.46                               | 5.61 | 5.82 | 6.06 | 6.35 | 6.63 |
|         | 43                       | 6.26                                  | 7.93  | 9.61  | 11.38 | 13.32 | 15.50 | 6.20                               | 6.32 | 6.49 | 6.71 | 6.96 | 7.22 |
| ZXD076E | 27                       | 9.22                                  | 11.07 | 13.00 | 15.37 | 18.12 | 20.53 | 4.00                               | 4.17 | 4.41 | 4.70 | 5.03 | 5.35 |
|         | 32                       | 8.50                                  | 10.21 | 12.06 | 14.14 | 16.53 | 19.30 | 4.78                               | 4.93 | 5.16 | 5.43 | 5.74 | 6.05 |
|         | 38                       | 7.45                                  | 8.91  | 10.83 | 12.72 | 14.83 | 17.26 | 5.35                               | 5.50 | 5.70 | 5.94 | 6.22 | 6.50 |
|         | 43                       | 6.39                                  | 8.09  | 9.80  | 11.61 | 13.59 | 15.81 | 6.07                               | 6.19 | 6.36 | 6.57 | 6.82 | 7.07 |
|         | 48                       | 5.32                                  | 7.26  | 8.77  | 10.50 | 12.34 |       | 6.79                               | 6.88 | 7.02 | 7.21 | 7.43 |      |

**Notes:** The rating condition is based on return gas temperature of 18.3°C.  
  The rating condition is based on suction superheat of 10 K.  
 Power includes condenser fan.  
 Ambient 38°C and 43°C are typical design conditions for unit selection.

# ZXD Family: Digital Medium Temperature

## Capacity and Power (kW) at 60 Hz - TF7

# R404A

| Model   | Ambient Temperature (°C) | Capacity Evaporating Temperature (°C) |       |       |       |       |       | Power Evaporating Temperature (°C) |      |      |      |      |      |
|---------|--------------------------|---------------------------------------|-------|-------|-------|-------|-------|------------------------------------|------|------|------|------|------|
|         |                          | -20                                   | -15   | -10   | -5    | 0     | 5     | -20                                | -15  | -10  | -5   | 0    | 5    |
| ZXD040E | 27                       | 7.10                                  | 8.53  | 9.35  | 10.80 | 12.99 | 14.70 | 3.24                               | 3.42 | 3.62 | 3.85 | 4.05 | 4.34 |
|         | 32                       | 6.64                                  | 8.03  | 8.70  | 10.20 | 12.27 | 13.87 | 3.59                               | 3.74 | 4.00 | 4.13 | 4.30 | 4.57 |
|         | 38                       | 5.88                                  | 7.20  | 7.97  | 9.26  | 11.15 | 12.60 | 4.19                               | 4.31 | 4.46 | 4.64 | 4.77 | 5.00 |
|         | 43                       | 5.21                                  | 6.34  | 7.09  | 8.29  | 10.01 | 11.32 | 4.82                               | 4.92 | 5.05 | 5.21 | 5.31 | 5.52 |
|         | 48                       | 4.27                                  | 5.60  | 6.20  | 7.31  | 8.86  |       | 5.46                               | 5.53 | 5.64 | 5.77 | 5.85 |      |
| ZXD050E | 27                       | 8.99                                  | 10.86 | 11.74 | 13.54 | 15.32 | 17.06 | 4.38                               | 4.48 | 4.63 | 4.83 | 5.10 | 5.44 |
|         | 32                       | 7.87                                  | 9.75  | 10.77 | 12.57 | 14.41 | 16.21 | 4.93                               | 5.04 | 5.11 | 5.40 | 5.66 | 6.00 |
|         | 38                       | 6.67                                  | 8.48  | 9.54  | 11.35 | 13.18 | 14.99 | 5.51                               | 5.61 | 5.75 | 5.95 | 6.20 | 6.51 |
|         | 43                       | 5.86                                  | 7.54  | 8.57  | 10.31 | 12.08 | 13.84 | 6.14                               | 6.21 | 6.32 | 6.48 | 6.71 | 6.97 |
|         | 48                       | 5.04                                  | 6.59  | 7.60  | 9.26  | 10.98 |       | 6.76                               | 6.81 | 6.89 | 7.02 | 7.22 |      |
| ZXD060E | 27                       | 10.22                                 | 12.06 | 13.41 | 15.56 | 17.89 | 21.07 | 4.42                               | 4.61 | 5.08 | 5.41 | 5.78 | 6.16 |
|         | 32                       | 9.34                                  | 11.23 | 12.54 | 14.72 | 16.78 | 19.61 | 5.28                               | 5.45 | 5.93 | 6.26 | 6.61 | 6.96 |
|         | 38                       | 8.36                                  | 10.23 | 11.50 | 13.51 | 15.37 | 17.89 | 5.91                               | 6.06 | 6.58 | 6.83 | 7.15 | 7.47 |
|         | 43                       | 7.44                                  | 9.27  | 10.61 | 12.57 | 14.33 | 16.68 | 6.71                               | 6.83 | 7.32 | 7.57 | 7.85 | 8.34 |
|         | 48                       | 6.27                                  | 8.22  | 9.72  | 11.62 | 13.29 |       | 7.51                               | 7.59 | 8.07 | 8.30 | 8.54 |      |
| ZXD075E | 27                       | 11.16                                 | 13.39 | 14.92 | 17.64 | 19.93 | 22.58 | 4.80                               | 5.00 | 5.69 | 6.06 | 6.54 | 6.96 |
|         | 32                       | 10.29                                 | 12.35 | 13.84 | 16.23 | 18.18 | 21.23 | 5.74                               | 5.92 | 6.66 | 7.00 | 7.46 | 7.87 |
|         | 38                       | 9.01                                  | 10.78 | 12.43 | 14.60 | 16.31 | 18.99 | 6.42                               | 6.60 | 7.35 | 7.66 | 8.09 | 8.45 |
|         | 43                       | 7.73                                  | 9.79  | 11.25 | 13.33 | 14.95 | 17.39 | 7.28                               | 7.43 | 8.20 | 8.48 | 8.87 | 9.19 |
|         | 48                       | 6.44                                  | 8.78  | 10.07 | 12.05 |       |       | 8.15                               | 8.26 | 9.06 | 9.30 |      |      |

**Notes:** The rating condition is based on return gas temperature of 18.3°C.  
 The rating condition is based on suction superheat of 10 K.  
 Power includes condenser fan.  
 Ambient 38°C and 43°C are typical design conditions for unit selection.

# ZXD Family: Digital Medium Temperature

## Capacity and Power (kW) at 50 Hz - TFD/TF5

# R407F

| Model   | Ambient Temperature (°C) | Capacity<br>Evaporating Temperature (°C) |       |       |       |       |       | Power<br>Evaporating Temperature (°C) |      |      |      |      |      |
|---------|--------------------------|--|-------|-------|-------|-------|-------|---------------------------------------|------|------|------|------|------|
|         |                          | -10                                      | -5    | 0     | 5     | 10    | 12    | -10                                   | -5   | 0    | 5    | 10   | 12   |
| ZXD040E | 27                       | 7.68                                     | 9.32  | 11.17 | 13.20 | 15.41 | 16.34 | 2.85                                  | 3.04 | 3.23 | 3.40 | 3.49 | 3.50 |
|         | 32                       | 7.30                                     | 8.93  | 10.73 | 12.69 | 14.77 | 15.64 | 3.13                                  | 3.30 | 3.50 | 3.70 | 3.86 | 3.90 |
|         | 38                       | 6.66                                     | 8.27  | 10.01 | 11.85 | 13.77 | 14.56 | 3.53                                  | 3.66 | 3.86 | 4.09 | 4.31 | 4.39 |
|         | 43                       | 6.06                                     | 7.64  | 9.30  | 11.03 | 12.81 | 13.53 | 3.95                                  | 4.04 | 4.22 | 4.46 | 4.72 | 4.83 |
|         | 48                       |  | 6.98  | 8.56  |       |       |       |                                       | 4.52 | 4.67 |      |      |      |
| ZXD050E | 27                       | 9.52                                     | 11.65 | 13.94 | 16.37 | 19.26 | 20.42 | 3.61                                  | 3.77 | 3.94 | 4.08 | 4.20 | 4.21 |
|         | 32                       | 9.05                                     | 11.21 | 13.52 | 15.73 | 18.47 | 19.56 | 3.97                                  | 4.11 | 4.30 | 4.45 | 4.64 | 4.70 |
|         | 38                       | 8.11                                     | 10.33 | 12.69 | 14.81 | 17.35 | 18.37 | 4.40                                  | 4.54 | 4.77 | 4.95 | 5.23 | 5.33 |
|         | 43                       | 7.45                                     | 9.47  | 11.72 | 13.90 | 16.40 | 17.40 | 4.98                                  | 4.98 | 5.19 | 5.45 | 5.82 | 5.97 |
|         | 48                       |  | 8.73  | 10.79 |       |       |       |                                       | 5.61 | 5.74 |      |      |      |
| ZXD060E | 27                       | 10.37                                    | 12.69 | 15.70 | 18.80 | 22.69 | 24.24 | 3.80                                  | 4.18 | 4.49 | 4.58 | 4.62 | 4.86 |
|         | 32                       | 9.85                                     | 12.20 | 15.23 | 17.91 | 21.39 | 22.78 | 4.33                                  | 4.74 | 5.15 | 5.11 | 5.14 | 5.40 |
|         | 38                       | 9.07                                     | 11.50 | 14.19 | 16.64 | 19.76 | 21.01 | 4.81                                  | 5.27 | 5.65 | 5.64 | 5.75 | 6.03 |
|         | 43                       | 8.41                                     | 10.59 | 12.99 | 15.41 | 18.34 | 19.52 | 5.40                                  | 5.72 | 5.99 | 6.06 | 6.26 | 6.54 |
|         | 48                       |  | 9.93  | 12.07 |       |       |       |                                       | 6.67 | 6.85 |      |      |      |
| ZXD075E | 27                       | 12.99                                    | 15.24 | 17.78 | 20.67 |       |       | 4.92                                  | 5.09 | 5.19 | 5.28 |      |      |
|         | 32                       | 12.35                                    | 14.49 | 16.87 | 19.56 |       |       | 5.61                                  | 5.71 | 5.83 | 5.86 |      |      |
|         | 38                       | 11.35                                    | 13.34 | 15.51 | 17.92 |       |       | 6.22                                  | 6.19 | 6.30 | 6.37 |      |      |
|         | 43                       |  | 12.30 | 14.28 | 16.44 |       |       |                                       | 6.73 | 6.72 | 6.78 |      |      |
|         | 48                       |  |       |       |       |       |       |                                       |      |      |      |      |      |
| ZXD076E | 27                       | 13.25                                    | 15.54 | 18.13 | 21.09 | 24.47 | 25.82 | 4.82                                  | 4.98 | 5.09 | 5.18 | 5.14 | 5.33 |
|         | 32                       | 12.59                                    | 14.78 | 17.21 | 19.96 | 23.07 | 24.32 | 5.50                                  | 5.59 | 5.71 | 5.74 | 5.71 | 5.94 |
|         | 38                       | 11.57                                    | 13.60 | 15.82 | 18.28 | 21.06 | 22.17 | 6.10                                  | 6.07 | 6.17 | 6.24 | 6.31 | 6.56 |
|         | 43                       | 10.67                                    | 12.55 | 14.57 | 16.77 | 19.23 | 20.22 | 6.80                                  | 6.60 | 6.58 | 6.65 | 6.75 | 6.98 |
|         | 48                       |  | 11.54 | 13.33 |       |       |       |                                       | 7.45 | 7.26 |      |      |      |

**Notes:** The rating condition is based on suction superheat of 10K.  
 Power includes condenser fan.  
 Ambient 38°C and 43°C are typical design conditions for unit selection.

# ZXD Family: Digital Medium Temperature

## Capacity and Power (kW) at 60 Hz - TF7

# R407F

| Model   | Ambient Temperature (°C) | Capacity                     |       |       |       |       |       | Power                        |      |      |      |      |      |
|---------|--------------------------|------------------------------|-------|-------|-------|-------|-------|------------------------------|------|------|------|------|------|
|         |                          | Evaporating Temperature (°C) |       |       |       |       |       | Evaporating Temperature (°C) |      |      |      |      |      |
|         |                          | -10                          | -5    | 0     | 5     | 10    | 12    | -10                          | -5   | 0    | 5    | 10   | 12   |
| ZXD040E | 27                       | 8.60                         | 10.44 | 13.18 | 15.58 | 18.18 | 19.27 | 3.41                         | 3.64 | 3.82 | 4.01 | 4.11 | 4.12 |
|         | 32                       | 8.06                         | 10.00 | 12.66 | 14.98 | 17.45 | 18.48 | 3.82                         | 3.96 | 4.14 | 4.37 | 4.56 | 4.61 |
|         | 38                       | 7.46                         | 9.27  | 11.81 | 13.98 | 16.25 | 17.18 | 4.23                         | 4.39 | 4.56 | 4.82 | 5.08 | 5.17 |
|         | 43                       | 6.78                         | 8.56  | 10.98 | 13.02 | 15.12 | 15.97 | 4.74                         | 4.85 | 4.98 | 5.26 | 5.57 | 5.69 |
|         | 48                       |                              | 7.81  | 10.10 |       |       |       |                              | 5.42 | 5.51 |      |      |      |
| ZXD050E | 27                       | 10.48                        | 12.81 | 15.33 | 18.01 | 21.19 | 22.46 | 4.33                         | 4.53 | 4.72 | 4.90 | 5.04 | 5.06 |
|         | 32                       | 9.98                         | 12.32 | 14.87 | 17.30 | 20.30 | 21.50 | 4.69                         | 4.93 | 5.16 | 5.33 | 5.58 | 5.64 |
|         | 38                       | 8.93                         | 11.36 | 13.96 | 16.29 | 19.08 | 20.20 | 5.28                         | 5.44 | 5.74 | 5.95 | 6.28 | 6.40 |
|         | 43                       | 8.20                         | 10.42 | 12.89 | 15.29 | 18.04 | 19.14 | 5.97                         | 5.97 | 6.23 | 6.53 | 6.98 | 7.16 |
|         | 48                       |                              | 9.60  | 11.87 |       |       |       |                              | 6.73 | 6.90 |      |      |      |
| ZXD060E | 27                       | 12.12                        | 14.84 | 17.90 | 21.44 | 25.87 | 27.64 | 4.75                         | 5.22 | 5.62 | 5.72 | 5.77 | 6.06 |
|         | 32                       | 11.53                        | 14.28 | 17.36 | 20.42 | 24.39 | 25.98 | 5.40                         | 5.93 | 6.45 | 6.40 | 6.43 | 6.76 |
|         | 38                       | 10.62                        | 13.45 | 16.18 | 18.97 | 22.53 | 23.95 | 6.02                         | 6.58 | 7.06 | 7.04 | 7.17 | 7.53 |
|         | 43                       | 9.84                         | 12.40 | 14.81 | 17.57 | 20.92 | 22.26 | 6.75                         | 7.14 | 7.49 | 7.77 | 8.22 | 8.69 |
|         | 48                       |                              | 11.62 | 13.76 |       |       |       |                              | 8.34 | 8.57 |      |      |      |
| ZXD075E | 27                       | 15.21                        | 17.84 | 19.95 | 23.19 | 26.90 | 28.53 | 6.22                         | 6.42 | 6.62 | 6.73 | 6.68 | 6.97 |
|         | 32                       | 14.46                        | 16.96 | 18.93 | 21.95 | 25.38 | 26.88 | 7.09                         | 7.21 | 7.42 | 7.47 | 7.45 | 7.79 |
|         | 38                       | 13.28                        | 15.62 | 17.40 | 20.12 | 23.18 | 24.52 | 7.86                         | 7.83 | 8.02 | 8.12 | 8.21 | 8.57 |
|         | 43                       | 12.25                        | 14.41 | 16.02 | 18.44 | 21.15 | 22.32 | 8.78                         | 8.51 | 8.56 | 8.64 | 8.77 | 9.09 |
|         | 48                       |                              | 13.26 | 14.68 |       |       |       |                              | 9.60 | 9.46 |      |      |      |

**Notes:** The rating condition is based on suction superheat of 10K.  
 Power includes condenser fan.  
 Ambient 38°C and 43°C are typical design conditions for unit selection.

# ZXL Family: Low Temperature

## Capacity and Power (kW) at 50 Hz - TFD/TF5

# R22

| Model   | Ambient Temperature (°C) | Capacity Evaporating Temperature (°C) |      |      |      |      |       |       |       |       | Power Evaporating Temperature (°C) |      |      |      |      |      |      |      |      |
|---------|--------------------------|---------------------------------------|------|------|------|------|-------|-------|-------|-------|------------------------------------|------|------|------|------|------|------|------|------|
|         |                          | -40                                   | -35  | -30  | -25  | -20  | -15   | -10   | -5    | 0     | -40                                | -35  | -30  | -25  | -20  | -15  | -10  | -5   | 0    |
| ZXL0200 | 20                       | 1.35                                  | 1.57 | 1.90 | 2.28 | 2.76 | 3.30  | 3.93  | 4.64  | 5.41  | 0.94                               | 1.03 | 1.12 | 1.19 | 1.26 | 1.31 | 1.36 | 1.40 | 1.43 |
|         | 27                       | 1.32                                  | 1.55 | 1.87 | 2.26 | 2.73 | 3.27  | 3.89  | 4.59  | 5.36  | 1.10                               | 1.20 | 1.29 | 1.36 | 1.43 | 1.49 | 1.55 | 1.59 | 1.63 |
|         | 32                       | 1.32                                  | 1.55 | 1.86 | 2.24 | 2.70 | 3.24  | 3.85  | 4.54  | 5.31  | 1.26                               | 1.36 | 1.45 | 1.53 | 1.61 | 1.67 | 1.73 | 1.78 | 1.81 |
|         | 38                       | 1.26                                  | 1.48 | 1.78 | 2.15 | 2.61 | 3.13  | 3.74  | 4.42  | 5.18  | 1.51                               | 1.61 | 1.71 | 1.79 | 1.87 | 1.94 | 2.00 | 2.05 | 2.09 |
|         | 43                       | 1.15                                  | 1.36 | 1.66 | 2.03 | 2.47 | 2.99  | 3.59  | 4.27  | 5.02  | 1.76                               | 1.87 | 1.97 | 2.05 | 2.13 | 2.21 | 2.27 | 2.32 | 2.37 |
|         | 48                       | 0.99                                  | 1.20 | 1.49 | 1.85 | 2.29 | 2.81  |       |       |       | 2.05                               | 2.16 | 2.26 | 2.35 | 2.44 | 2.51 |      |      |      |
| ZXL0250 | 20                       | 1.65                                  | 1.90 | 2.20 | 2.70 | 3.40 | 4.10  | 4.85  | 5.73  | 6.72  | 1.18                               | 1.28 | 1.38 | 1.48 | 1.57 | 1.65 | 1.74 | 1.81 | 1.89 |
|         | 27                       | 1.61                                  | 1.87 | 2.12 | 2.67 | 3.31 | 4.03  | 4.84  | 5.72  | 6.69  | 1.32                               | 1.40 | 1.49 | 1.57 | 1.64 | 1.71 | 1.78 | 1.84 | 1.90 |
|         | 32                       | 1.56                                  | 1.82 | 2.09 | 2.63 | 3.26 | 3.97  | 4.76  | 5.63  | 6.58  | 1.51                               | 1.59 | 1.66 | 1.72 | 1.79 | 1.85 | 1.90 | 1.95 | 2.00 |
|         | 38                       | 1.42                                  | 1.68 | 1.97 | 2.49 | 3.10 | 3.79  | 4.56  | 5.42  | 6.36  | 1.85                               | 1.91 | 1.97 | 2.02 | 2.07 | 2.11 | 2.15 | 2.19 | 2.22 |
|         | 43                       | 1.23                                  | 1.48 | 1.79 | 2.30 | 2.89 | 3.57  | 4.33  | 5.17  | 6.09  | 2.22                               | 2.27 | 2.31 | 2.35 | 2.39 | 2.43 | 2.45 | 2.48 | 2.50 |
|         | 48                       | 1.10                                  | 1.28 | 1.54 | 2.03 | 2.61 | 3.27  |       |       |       | 2.66                               | 2.70 | 2.74 | 2.77 | 2.79 | 2.82 |      |      |      |
| ZXL0300 | 20                       | 1.94                                  | 2.29 | 2.67 | 3.17 | 3.78 | 4.48  | 5.40  | 6.52  | 8.06  | 1.28                               | 1.45 | 1.60 | 1.74 | 1.87 | 1.99 | 2.09 | 2.18 | 2.26 |
|         | 27                       | 1.90                                  | 2.19 | 2.58 | 3.08 | 3.69 | 4.40  | 5.20  | 6.44  | 7.85  | 1.36                               | 1.52 | 1.67 | 1.80 | 1.92 | 2.03 | 2.13 | 2.21 | 2.28 |
|         | 32                       | 1.80                                  | 2.09 | 2.49 | 2.99 | 3.60 | 4.32  | 5.14  | 6.06  | 7.63  | 1.55                               | 1.70 | 1.85 | 1.98 | 2.09 | 2.20 | 2.29 | 2.37 | 2.43 |
|         | 38                       | 1.58                                  | 1.87 | 2.27 | 2.77 | 3.39 | 4.10  | 4.92  | 5.85  | 7.30  | 1.92                               | 2.07 | 2.21 | 2.33 | 2.45 | 2.54 | 2.63 | 2.70 | 2.76 |
|         | 43                       | 1.31                                  | 1.59 | 1.99 | 2.50 | 3.11 | 3.83  | 4.65  | 5.58  | 6.95  | 2.36                               | 2.51 | 2.64 | 2.76 | 2.86 | 2.96 | 3.04 | 3.11 | 3.16 |
|         | 48                       | 1.21                                  | 1.35 | 1.63 | 2.13 | 2.75 | 3.47  |       |       |       | 2.91                               | 3.05 | 3.18 | 3.29 | 3.39 | 3.48 |      |      |      |
| ZXL0350 | 20                       | 2.56                                  | 2.90 | 3.44 | 4.15 | 5.01 | 5.98  | 7.03  | 8.14  | 9.26  | 1.68                               | 1.73 | 1.79 | 1.88 | 1.98 | 2.09 | 2.22 | 2.37 | 2.52 |
|         | 27                       | 2.29                                  | 2.64 | 3.19 | 3.91 | 4.76 | 5.71  | 6.75  | 7.83  | 8.92  | 1.81                               | 1.87 | 1.95 | 2.05 | 2.17 | 2.30 | 2.44 | 2.60 | 2.76 |
|         | 32                       | 2.12                                  | 2.47 | 3.02 | 3.72 | 4.56 | 5.49  | 6.50  | 7.55  | 8.62  | 2.08                               | 2.16 | 2.25 | 2.36 | 2.48 | 2.62 | 2.78 | 2.94 | 3.11 |
|         | 38                       | 1.93                                  | 2.27 | 2.80 | 3.48 | 4.28 | 5.19  | 6.16  | 7.16  | 8.18  | 2.52                               | 2.60 | 2.71 | 2.82 | 2.96 | 3.11 | 3.27 | 3.44 | 3.63 |
|         | 43                       | 1.78                                  | 2.09 | 2.59 | 3.25 | 4.02 | 4.89  | 5.81  | 6.77  | 7.73  | 2.88                               | 2.97 | 3.09 | 3.21 | 3.35 | 3.51 | 3.68 | 3.86 | 4.05 |
|         | 48                       | 1.61                                  | 1.90 | 2.37 | 2.98 | 3.71 | 4.53  |       |       |       | 3.18                               | 3.28 | 3.40 | 3.53 | 3.68 | 3.84 |      |      |      |
| ZXL0400 | 20                       | 3.18                                  | 3.85 | 4.64 | 5.56 | 6.60 | 7.77  | 9.06  | 10.48 | 12.03 | 1.94                               | 2.08 | 2.22 | 2.38 | 2.54 | 2.70 | 2.88 | 3.06 | 3.25 |
|         | 27                       | 2.80                                  | 3.42 | 4.16 | 5.03 | 6.02 | 7.14  | 8.39  | 9.76  | 11.26 | 2.27                               | 2.43 | 2.59 | 2.76 | 2.94 | 3.12 | 3.32 | 3.52 | 3.73 |
|         | 32                       | 2.58                                  | 3.17 | 3.87 | 4.71 | 5.67 | 6.76  | 7.97  | 9.31  | 10.77 | 2.58                               | 2.75 | 2.93 | 3.11 | 3.30 | 3.50 | 3.71 | 3.92 | 4.15 |
|         | 38                       | 2.39                                  | 2.93 | 3.59 | 4.39 | 5.31 | 6.35  | 7.52  | 8.82  | 10.25 | 3.04                               | 3.23 | 3.42 | 3.62 | 3.83 | 4.04 | 4.27 | 4.50 | 4.73 |
|         | 43                       | 2.27                                  | 2.78 | 3.41 | 4.17 | 5.06 | 6.07  | 7.21  | 8.47  | 9.86  | 3.50                               | 3.69 | 3.90 | 4.11 | 4.33 | 4.56 | 4.80 | 5.04 | 5.30 |
|         | 48                       | 2.21                                  | 2.68 | 3.28 | 4.01 | 4.86 | 5.83  |       |       |       | 4.01                               | 4.22 | 4.44 | 4.67 | 4.91 | 5.15 |      |      |      |
| ZXL0500 | 20                       | 3.50                                  | 4.30 | 5.30 | 6.40 | 7.73 | 9.08  | 10.62 | 12.33 | 14.21 | 2.05                               | 2.24 | 2.42 | 2.59 | 2.77 | 2.96 | 3.16 | 3.37 | 3.60 |
|         | 27                       | 3.12                                  | 3.84 | 4.73 | 5.79 | 7.01 | 8.39  | 9.92  | 11.60 | 13.42 | 2.56                               | 2.72 | 2.87 | 3.03 | 3.20 | 3.38 | 3.57 | 3.79 | 4.02 |
|         | 32                       | 2.79                                  | 3.56 | 4.48 | 5.56 | 6.77 | 8.12  | 9.60  | 11.21 | 12.94 | 2.89                               | 3.04 | 3.19 | 3.35 | 3.53 | 3.71 | 3.92 | 4.15 | 4.41 |
|         | 38                       | 2.65                                  | 3.43 | 4.35 | 5.38 | 6.53 | 7.79  | 9.15  | 10.61 | 12.17 | 3.30                               | 3.46 | 3.62 | 3.79 | 3.99 | 4.20 | 4.43 | 4.70 | 4.99 |
|         | 43                       | 2.56                                  | 3.31 | 4.16 | 5.00 | 6.16 | 7.30  | 8.52  | 9.81  | 11.18 | 3.68                               | 3.85 | 4.04 | 4.24 | 4.46 | 4.70 | 4.98 | 5.28 | 5.62 |
|         | 48                       | 2.30                                  | 2.97 | 3.73 | 4.56 | 5.57 | 6.60  |       |       |       | 4.12                               | 4.32 | 4.54 | 4.78 | 5.04 | 5.33 |      |      |      |
| ZXL0600 | 20                       | 3.70                                  | 4.70 | 5.84 | 7.14 | 8.63 | 10.32 | 12.23 | 14.38 | 16.78 | 2.56                               | 2.72 | 2.89 | 3.09 | 3.32 | 3.57 | 3.85 | 4.16 | 4.50 |
|         | 27                       | 3.51                                  | 4.44 | 5.51 | 6.72 | 8.09 | 9.66  | 11.42 | 13.41 | 15.64 | 3.21                               | 3.37 | 3.55 | 3.75 | 3.97 | 4.22 | 4.49 | 4.78 | 5.11 |
|         | 32                       | 3.44                                  | 4.35 | 5.37 | 6.53 | 7.85 | 9.34  | 11.02 | 12.91 | 15.03 | 3.58                               | 3.76 | 3.96 | 4.17 | 4.40 | 4.66 | 4.94 | 5.24 | 5.56 |
|         | 38                       | 3.28                                  | 4.17 | 5.17 | 6.29 | 7.55 | 8.98  | 10.58 | 12.37 | 14.38 | 4.05                               | 4.27 | 4.51 | 4.76 | 5.02 | 5.30 | 5.60 | 5.93 | 6.28 |
|         | 43                       | 2.96                                  | 3.86 | 4.85 | 5.96 | 7.19 | 8.57  | 10.12 | 11.85 | 13.78 | 4.58                               | 4.85 | 5.13 | 5.42 | 5.72 | 6.04 | 6.38 | 6.73 | 7.11 |
|         | 48                       | 2.71                                  | 3.50 | 4.29 | 5.39 | 6.60 | 7.96  |       |       |       | 5.32                               | 5.65 | 5.98 | 6.33 | 6.68 | 7.05 |      |      |      |
| ZXL0750 | 20                       | 4.20                                  | 5.60 | 6.90 | 8.00 | 9.50 | 11.43 | 13.31 | 15.49 | 17.97 | 3.02                               | 3.17 | 3.34 | 3.53 | 3.74 | 3.99 | 4.27 | 4.60 | 4.96 |
|         | 27                       | 4.00                                  | 5.16 | 6.18 | 7.43 | 8.91 | 10.80 | 12.58 | 14.78 | 17.24 | 3.51                               | 3.68 | 3.87 | 4.08 | 4.33 | 4.61 | 4.93 | 5.29 | 5.70 |
|         | 32                       | 3.76                                  | 4.71 | 5.84 | 7.17 | 8.68 | 10.40 | 12.31 | 14.44 | 16.78 | 3.88                               | 4.06 | 4.28 | 4.52 | 4.79 | 5.10 | 5.45 | 5.84 | 6.28 |
|         | 38                       | 3.52                                  | 4.55 | 5.71 | 7.02 | 8.48 | 10.09 | 11.86 | 13.80 | 15.90 | 4.40                               | 4.61 | 4.85 | 5.12 | 5.43 | 5.77 | 6.16 | 6.59 | 7.08 |
|         | 43                       | 3.41                                  | 4.42 | 5.53 | 6.75 | 8.07 | 9.52  | 11.08 | 12.76 | 14.58 | 4.93                               | 5.17 | 5.43 | 5.73 | 6.07 | 6.45 | 6.87 | 7.34 | 7.86 |
|         | 48                       | 3.12                                  | 4.04 | 5.01 | 6.06 | 7.50 | 8.70  |       |       |       | 5.58                               | 5.85 | 6.14 | 6.47 | 6.84 | 7.25 |      |      |      |

**Note:** The rating condition is based on the return gas temperature of 5°C.  
 Power includes condenser fan.  
 Ambient 38°C and 43°C are typical design conditions for unit selection.



# ZXL Family: Low Temperature

## Capacity and Power (kW) at 60 Hz - TF5/TF7

# R22

| Model   | Ambient Temperature (°C) | Capacity Evaporating Temperature (°C) |      |      |       |       |       |       |       |       | Power Evaporating Temperature (°C) |      |      |      |      |      |      |      |       |
|---------|--------------------------|---------------------------------------|------|------|-------|-------|-------|-------|-------|-------|------------------------------------|------|------|------|------|------|------|------|-------|
|         |                          | -40                                   | -35  | -30  | -25   | -20   | -15   | -10   | -5    | 0     | -40                                | -35  | -30  | -25  | -20  | -15  | -10  | -5   | 0     |
| ZXL020E | 20                       | 1.51                                  | 1.95 | 2.44 | 3.02  | 3.69  | 4.48  | 5.41  | 6.50  | 7.76  | 1.40                               | 1.46 | 1.51 | 1.56 | 1.61 | 1.66 | 1.71 | 1.77 | 1.84  |
|         | 27                       | 1.34                                  | 1.81 | 2.32 | 2.89  | 3.53  | 4.27  | 5.13  | 6.12  | 7.26  | 1.59                               | 1.65 | 1.71 | 1.76 | 1.82 | 1.88 | 1.94 | 2.01 | 2.10  |
|         | 32                       | 1.28                                  | 1.78 | 2.30 | 2.86  | 3.49  | 4.19  | 5.00  | 5.92  | 6.99  | 1.74                               | 1.80 | 1.86 | 1.92 | 1.98 | 2.05 | 2.12 | 2.20 | 2.30  |
|         | 38                       | 1.21                                  | 1.74 | 2.28 | 2.84  | 3.44  | 4.11  | 4.85  | 5.70  | 6.67  | 1.95                               | 2.01 | 2.07 | 2.14 | 2.21 | 2.29 | 2.37 | 2.47 | 2.58  |
|         | 43                       | 1.11                                  | 1.67 | 2.22 | 2.78  | 3.36  | 4.00  | 4.69  | 5.48  | 6.37  | 2.17                               | 2.23 | 2.30 | 2.37 | 2.45 | 2.54 | 2.62 | 2.74 | 2.88  |
|         | 48                       | 0.92                                  | 1.51 | 2.07 | 2.63  | 3.20  | 3.81  | 4.46  | 5.18  | 5.99  | 2.45                               | 2.52 | 2.59 | 2.67 | 2.76 | 2.85 | 2.94 | 3.07 | 3.23  |
| ZXL025E | 20                       | 2.40                                  | 2.52 | 2.93 | 3.56  | 4.37  | 5.33  | 6.41  | 7.56  | 8.77  | 1.85                               | 1.89 | 1.91 | 1.98 | 1.99 | 2.02 | 2.07 | 2.14 | 2.23  |
|         | 27                       | 2.38                                  | 2.50 | 2.88 | 3.47  | 4.24  | 5.16  | 6.19  | 7.29  | 8.44  | 2.02                               | 2.03 | 2.05 | 2.09 | 2.14 | 2.20 | 2.29 | 2.40 | 2.53  |
|         | 32                       | 2.36                                  | 2.48 | 2.82 | 3.38  | 4.11  | 4.99  | 5.97  | 7.03  | 8.13  | 2.23                               | 2.25 | 2.29 | 2.33 | 2.40 | 2.48 | 2.58 | 2.70 | 2.84  |
|         | 38                       | 2.34                                  | 2.46 | 2.75 | 3.26  | 3.93  | 4.75  | 5.67  | 6.67  | 7.70  | 2.62                               | 2.65 | 2.68 | 2.73 | 2.80 | 2.88 | 2.98 | 3.10 | 3.25  |
|         | 43                       | 2.31                                  | 2.44 | 2.71 | 3.16  | 3.78  | 4.54  | 5.41  | 6.33  | 7.30  | 3.01                               | 3.02 | 3.05 | 3.09 | 3.14 | 3.21 | 3.29 | 3.43 | 3.59  |
|         | 48                       | 2.30                                  | 2.43 | 2.69 | 3.08  | 3.64  | 4.34  | 5.13  | 5.99  | 6.88  | 3.38                               | 3.39 | 3.39 | 3.41 | 3.44 | 3.49 | 3.59 | 3.71 | 3.88  |
| ZXL030E | 20                       | 2.73                                  | 2.87 | 3.34 | 4.06  | 4.98  | 6.08  | 7.31  | 8.62  | 9.99  | 1.92                               | 1.97 | 1.99 | 2.06 | 2.07 | 2.10 | 2.15 | 2.22 | 2.32  |
|         | 27                       | 2.72                                  | 2.86 | 3.28 | 3.96  | 4.84  | 5.88  | 7.05  | 8.31  | 9.62  | 2.10                               | 2.11 | 2.13 | 2.17 | 2.22 | 2.29 | 2.38 | 2.49 | 2.63  |
|         | 32                       | 2.69                                  | 2.83 | 3.22 | 3.85  | 4.69  | 5.69  | 6.81  | 8.02  | 9.27  | 2.32                               | 2.34 | 2.38 | 2.43 | 2.49 | 2.58 | 2.68 | 2.80 | 2.95  |
|         | 38                       | 2.68                                  | 2.81 | 3.14 | 3.71  | 4.48  | 5.42  | 6.47  | 7.60  | 8.78  | 2.73                               | 2.75 | 2.79 | 2.84 | 2.91 | 2.99 | 3.10 | 3.23 | 3.38  |
|         | 43                       | 2.66                                  | 2.80 | 3.09 | 3.60  | 4.31  | 5.18  | 6.16  | 7.22  | 8.32  | 3.13                               | 3.14 | 3.17 | 3.21 | 3.27 | 3.34 | 3.43 | 3.56 | 3.74  |
|         | 48                       | 2.65                                  | 2.79 | 3.07 | 3.52  | 4.15  | 4.95  | 5.85  | 6.83  | 7.84  | 3.52                               | 3.52 | 3.53 | 3.54 | 3.58 | 3.63 | 3.73 | 3.86 | 4.03  |
| ZXL035E | 20                       | 3.34                                  | 3.48 | 4.04 | 4.91  | 6.03  | 7.36  | 8.84  | 10.43 | 12.09 | 2.25                               | 2.30 | 2.32 | 2.41 | 2.42 | 2.46 | 2.52 | 2.60 | 2.72  |
|         | 27                       | 3.32                                  | 3.46 | 3.97 | 4.79  | 5.85  | 7.12  | 8.54  | 10.06 | 11.64 | 2.46                               | 2.47 | 2.50 | 2.54 | 2.60 | 2.68 | 2.78 | 2.92 | 3.07  |
|         | 32                       | 3.30                                  | 3.45 | 3.90 | 4.66  | 5.67  | 6.88  | 8.24  | 9.70  | 11.22 | 2.71                               | 2.74 | 2.78 | 2.84 | 2.92 | 3.01 | 3.14 | 3.28 | 3.46  |
|         | 38                       | 3.29                                  | 3.45 | 3.80 | 4.49  | 5.43  | 6.55  | 7.83  | 9.20  | 10.62 | 3.19                               | 3.22 | 3.26 | 3.33 | 3.40 | 3.50 | 3.63 | 3.78 | 3.95  |
|         | 43                       | 3.27                                  | 3.42 | 3.74 | 4.36  | 5.22  | 6.27  | 7.46  | 8.74  | 10.07 | 3.66                               | 3.68 | 3.71 | 3.76 | 3.82 | 3.91 | 4.02 | 4.18 | 4.38  |
|         | 48                       | 3.26                                  | 3.40 | 3.72 | 4.25  | 5.03  | 5.98  | 7.09  | 8.27  | 9.50  | 4.11                               | 4.12 | 4.13 | 4.15 | 4.19 | 4.25 | 4.37 | 4.53 | 4.73  |
| ZXL040E | 20                       | 4.57                                  | 4.88 | 5.55 | 6.54  | 7.83  | 9.39  | 11.19 | 13.21 | 15.43 | 2.78                               | 2.87 | 2.96 | 3.06 | 3.14 | 3.19 | 3.24 | 3.29 | 3.34  |
|         | 27                       | 3.90                                  | 4.41 | 5.21 | 6.29  | 7.62  | 9.16  | 10.90 | 12.81 | 14.86 | 2.98                               | 3.08 | 3.22 | 3.36 | 3.49 | 3.58 | 3.66 | 3.74 | 3.86  |
|         | 32                       | 3.61                                  | 4.21 | 5.07 | 6.17  | 7.48  | 8.97  | 10.62 | 12.41 | 14.29 | 3.25                               | 3.38 | 3.55 | 3.72 | 3.88 | 3.98 | 4.08 | 4.19 | 4.29  |
|         | 38                       | 3.36                                  | 4.02 | 4.90 | 5.98  | 7.22  | 8.60  | 10.10 | 11.68 | 13.33 | 3.71                               | 3.88 | 4.07 | 4.27 | 4.45 | 4.57 | 4.68 | 4.80 | 4.92  |
|         | 43                       | 3.16                                  | 3.83 | 4.69 | 5.70  | 6.85  | 8.10  | 9.43  | 10.81 | 12.21 | 4.17                               | 4.36 | 4.58 | 4.80 | 4.98 | 5.11 | 5.23 | 5.36 | 5.49  |
|         | 48                       | 2.88                                  | 3.53 | 4.33 | 5.25  | 6.27  | 7.35  | 8.47  | 9.61  | 10.73 | 4.68                               | 4.89 | 5.13 | 5.35 | 5.54 | 5.67 | 5.80 | 5.93 | 6.06  |
| ZXL050E | 20                       | 4.80                                  | 5.82 | 6.84 | 7.99  | 9.47  | 11.27 | 13.38 | 15.79 | 18.50 | 2.81                               | 2.97 | 3.19 | 3.41 | 3.60 | 3.73 | 3.79 | 3.84 | 3.90  |
|         | 27                       | 4.28                                  | 4.98 | 5.94 | 7.18  | 8.66  | 10.40 | 12.37 | 14.57 | 16.99 | 3.25                               | 3.43 | 3.65 | 3.86 | 4.05 | 4.20 | 4.27 | 4.34 | 4.40  |
|         | 32                       | 3.90                                  | 4.71 | 5.73 | 6.97  | 8.42  | 10.06 | 11.88 | 13.88 | 16.04 | 3.57                               | 3.76 | 3.98 | 4.21 | 4.42 | 4.58 | 4.67 | 4.77 | 4.86  |
|         | 38                       | 3.73                                  | 4.62 | 5.67 | 6.86  | 8.20  | 9.66  | 11.25 | 12.95 | 14.76 | 4.01                               | 4.22 | 4.47 | 4.73 | 4.97 | 5.17 | 5.31 | 5.45 | 5.59  |
|         | 43                       | 3.64                                  | 4.55 | 5.56 | 6.67  | 7.87  | 9.15  | 10.49 | 11.95 | 13.51 | 4.47                               | 4.71 | 5.00 | 5.29 | 5.58 | 5.83 | 5.95 | 6.08 | 6.20  |
|         | 48                       | 3.38                                  | 4.27 | 5.22 | 6.20  | 7.22  | 8.27  | 9.43  | 10.60 | 11.84 | 5.07                               | 5.36 | 5.69 | 6.04 | 6.38 | 6.69 | 6.85 | 7.01 | 7.16  |
| ZXL060E | 20                       | 5.71                                  | 6.97 | 8.14 | 9.51  | 11.27 | 13.41 | 15.92 | 18.79 | 22.02 | 3.58                               | 3.83 | 4.12 | 4.40 | 4.64 | 4.82 | 4.89 | 4.96 | 5.03  |
|         | 27                       | 5.09                                  | 5.92 | 7.07 | 8.54  | 10.31 | 12.37 | 14.72 | 17.34 | 20.22 | 4.19                               | 4.43 | 4.71 | 4.98 | 5.23 | 5.41 | 5.50 | 5.59 | 5.68  |
|         | 32                       | 4.64                                  | 5.60 | 6.82 | 8.30  | 10.02 | 11.97 | 14.13 | 16.51 | 19.09 | 4.60                               | 4.85 | 5.14 | 5.43 | 5.70 | 5.91 | 6.03 | 6.15 | 6.27  |
|         | 38                       | 4.44                                  | 5.50 | 6.75 | 8.17  | 9.76  | 11.50 | 13.39 | 15.41 | 17.56 | 5.17                               | 5.44 | 5.76 | 6.10 | 6.41 | 6.67 | 6.85 | 6.91 | 6.98  |
|         | 43                       | 4.33                                  | 5.41 | 6.62 | 7.94  | 9.37  | 10.89 | 12.48 | 14.22 | 16.07 | 5.76                               | 6.08 | 6.45 | 6.83 | 7.20 | 7.52 | 7.68 | 7.85 | 8.03  |
|         | 48                       | 4.03                                  | 5.09 | 6.21 | 7.38  | 8.60  | 9.84  | 11.21 | 12.61 | 14.08 | 6.54                               | 6.91 | 7.34 | 7.79 | 8.23 | 8.62 | 8.83 | 9.09 | 9.35  |
| ZXL075E | 20                       | 6.05                                  | 7.30 | 8.62 | 10.08 | 11.94 | 14.21 | 16.88 | 19.92 | 23.34 | 3.93                               | 4.22 | 4.53 | 4.84 | 5.11 | 5.30 | 5.38 | 5.46 | 5.53  |
|         | 27                       | 5.40                                  | 6.28 | 7.50 | 9.05  | 10.93 | 13.12 | 15.60 | 18.38 | 21.44 | 4.61                               | 4.87 | 5.18 | 5.48 | 5.75 | 5.96 | 6.05 | 6.15 | 6.25  |
|         | 32                       | 4.91                                  | 5.93 | 7.23 | 8.80  | 10.62 | 12.68 | 14.98 | 17.50 | 20.23 | 5.06                               | 5.34 | 5.65 | 5.97 | 6.27 | 6.50 | 6.63 | 6.76 | 6.90  |
|         | 38                       | 4.71                                  | 5.83 | 7.15 | 8.66  | 10.34 | 12.19 | 14.19 | 16.34 | 18.61 | 5.68                               | 5.99 | 6.34 | 6.71 | 7.05 | 7.34 | 7.54 | 7.73 | 7.93  |
|         | 43                       | 4.59                                  | 5.74 | 7.02 | 8.42  | 9.93  | 11.54 | 13.23 | 15.08 | 17.04 | 6.34                               | 6.69 | 7.09 | 7.51 | 7.92 | 8.27 | 8.45 | 8.63 | 8.80  |
|         | 48                       | 4.27                                  | 5.39 | 6.58 | 7.82  | 9.11  | 10.43 | 11.89 | 13.38 | 14.93 | 7.19                               | 7.60 | 8.07 | 8.57 | 9.05 | 9.49 | 9.71 | 9.94 | 10.17 |

**Note:** The rating condition is based on the return gas temperature of 5°C.  
 Power includes condenser fan.  
 Ambient 38°C and 43°C are typical design conditions for unit selection.

# ZXL Family: Low Temperature Capacity and Power (kW) at 50 Hz - TFD/TF5

# R404A

| Model   | Ambient Temperature (°C) | Capacity<br>Evaporating Temperature (°C) |      |      |      |       |       |       |       |       | Power<br>Evaporating Temperature (°C) |      |      |      |      |      |      |      |      |
|---------|--------------------------|--|------|------|------|-------|-------|-------|-------|-------|---------------------------------------|------|------|------|------|------|------|------|------|
|         |                          | -40                                      | -35  | -30  | -25  | -20   | -15   | -10   | -5    | 0     | -40                                   | -35  | -30  | -25  | -20  | -15  | -10  | -5   | 0    |
| ZXL020E | 20                       | 1.83                                     | 2.17 | 2.55 | 2.97 | 3.42  | 3.92  | 4.46  | 5.04  | 5.66  | 1.22                                  | 1.36 | 1.50 | 1.65 | 1.70 | 1.95 | 2.12 | 2.28 | 2.38 |
|         | 27                       | 1.66                                     | 2.02 | 2.42 | 2.86 | 3.34  | 3.86  | 4.42  | 5.02  | 5.66  | 1.35                                  | 1.47 | 1.60 | 1.73 | 1.86 | 2.00 | 2.14 | 2.29 | 2.44 |
|         | 32                       | 1.45                                     | 1.82 | 2.24 | 2.70 | 3.19  | 3.73  | 4.31  | 4.92  | 5.58  | 1.50                                  | 1.60 | 1.71 | 1.83 | 1.95 | 2.08 | 2.21 | 2.34 | 2.48 |
|         | 38                       | 1.25                                     | 1.49 | 1.93 | 2.40 | 2.92  | 3.47  | 4.07  | 4.70  | 5.38  | 1.72                                  | 1.81 | 1.91 | 2.01 | 2.12 | 2.23 | 2.34 | 2.46 | 2.59 |
|         | 43                       | 1.10                                     | 1.23 | 1.58 | 2.07 | 2.60  | 3.18  | 3.79  | 4.44  | 5.13  | 1.95                                  | 2.03 | 2.11 | 2.20 | 2.30 | 2.39 | 2.50 | 2.60 | 2.72 |
|         | 48                       | 0.99                                     | 1.12 | 1.16 | 1.67 | 2.21  | 2.80  |       |       |       | 2.22                                  | 2.29 | 2.36 | 2.44 | 2.52 | 2.60 |      |      |      |
| ZXL025E | 20                       | 2.00                                     | 2.36 | 2.86 | 3.44 | 4.10  | 4.83  | 5.64  | 6.53  | 7.49  | 1.34                                  | 1.46 | 1.55 | 1.66 | 1.76 | 2.10 | 2.33 | 2.44 | 2.54 |
|         | 27                       | 1.89                                     | 2.31 | 2.80 | 3.37 | 4.02  | 4.74  | 5.54  | 6.42  | 7.37  | 1.59                                  | 1.68 | 1.77 | 1.87 | 1.97 | 2.23 | 2.36 | 2.50 | 2.64 |
|         | 32                       | 1.80                                     | 2.26 | 2.74 | 3.30 | 3.94  | 4.65  | 5.44  | 6.31  | 7.25  | 1.84                                  | 1.90 | 1.99 | 2.08 | 2.18 | 2.35 | 2.48 | 2.61 | 2.74 |
|         | 38                       | 1.63                                     | 2.03 | 2.50 | 3.05 | 3.68  | 4.38  | 5.15  | 6.01  | 6.94  | 2.12                                  | 2.16 | 2.22 | 2.31 | 2.41 | 2.61 | 2.72 | 2.84 | 2.96 |
|         | 43                       | 1.31                                     | 1.70 | 2.16 | 2.70 | 3.31  | 4.01  | 4.77  | 5.62  | 6.54  | 2.44                                  | 2.45 | 2.50 | 2.57 | 2.67 | 2.90 | 3.01 | 3.11 | 3.22 |
|         | 48                       | 1.20                                     | 1.24 | 1.69 | 2.22 | 2.82  | 3.51  |       |       |       | 2.89                                  | 2.90 | 2.91 | 2.98 | 3.08 | 3.28 |      |      |      |
| ZXL030E | 20                       | 2.23                                     | 2.87 | 3.62 | 4.45 | 5.35  | 6.30  | 7.29  | 8.30  | 9.31  | 1.55                                  | 1.73 | 1.90 | 2.07 | 2.10 | 2.39 | 2.53 | 2.60 | 2.70 |
|         | 27                       | 2.09                                     | 2.58 | 3.17 | 3.85 | 4.60  | 5.41  | 6.25  | 7.61  | 8.67  | 1.67                                  | 1.84 | 2.00 | 2.15 | 2.30 | 2.45 | 2.58 | 2.71 | 2.83 |
|         | 32                       | 2.08                                     | 2.49 | 3.00 | 3.60 | 4.27  | 5.00  | 5.77  | 7.35  | 8.38  | 1.89                                  | 2.05 | 2.20 | 2.35 | 2.49 | 2.62 | 2.75 | 2.87 | 2.99 |
|         | 38                       | 2.00                                     | 2.33 | 2.77 | 3.31 | 3.92  | 4.59  | 5.31  | 6.95  | 7.95  | 2.31                                  | 2.45 | 2.60 | 2.73 | 2.86 | 2.99 | 3.10 | 3.21 | 3.32 |
|         | 43                       | 1.73                                     | 2.03 | 2.44 | 2.95 | 3.54  | 4.19  | 4.89  | 6.55  | 7.52  | 2.77                                  | 2.91 | 3.05 | 3.18 | 3.30 | 3.41 | 3.52 | 3.62 | 3.72 |
|         | 48                       | 1.50                                     | 1.70 | 2.00 | 2.38 | 2.96  | 3.61  |       |       |       | 3.36                                  | 3.49 | 3.61 | 3.73 | 3.84 | 3.95 |      |      |      |
| ZXL035E | 20                       | 2.70                                     | 3.47 | 4.25 | 5.07 | 5.95  | 6.92  | 8.00  | 9.22  | 10.62 | 1.91                                  | 1.95 | 2.03 | 2.30 | 2.50 | 2.70 | 2.80 | 3.00 | 3.20 |
|         | 27                       | 2.55                                     | 3.31 | 4.07 | 4.85 | 5.69  | 6.61  | 7.63  | 8.78  | 10.09 | 2.26                                  | 2.33 | 2.43 | 2.56 | 2.72 | 2.90 | 3.08 | 3.27 | 3.47 |
|         | 32                       | 2.47                                     | 3.20 | 3.94 | 4.68 | 5.48  | 6.35  | 7.31  | 8.40  | 9.63  | 2.59                                  | 2.67 | 2.79 | 2.93 | 3.11 | 3.31 | 3.52 | 3.74 | 3.96 |
|         | 38                       | 2.37                                     | 3.08 | 3.75 | 4.45 | 5.17  | 5.97  | 6.85  | 7.84  | 8.98  | 3.00                                  | 3.09 | 3.22 | 3.38 | 3.58 | 3.79 | 4.03 | 4.28 | 4.53 |
|         | 43                       | 2.28                                     | 2.94 | 3.57 | 4.20 | 4.86  | 5.59  | 6.38  | 7.29  | 8.33  | 3.31                                  | 3.40 | 3.58 | 3.70 | 3.91 | 4.14 | 4.39 | 4.66 | 4.94 |
|         | 48                       | 2.17                                     | 2.76 | 3.33 | 3.89 | 4.48  | 5.12  |       |       |       | 4.00                                  | 4.15 | 4.30 | 4.45 | 4.50 | 4.60 |      |      |      |
| ZXL040E | 20                       | 3.78                                     | 4.51 | 5.38 | 6.38 | 7.49  | 8.71  | 10.01 | 11.39 | 12.84 | 2.45                                  | 2.70 | 2.75 | 3.01 | 3.05 | 3.12 | 3.90 | 4.07 | 4.20 |
|         | 27                       | 3.24                                     | 3.99 | 4.86 | 5.85 | 6.93  | 8.10  | 9.35  | 10.66 | 12.01 | 2.69                                  | 2.88 | 3.10 | 3.34 | 3.40 | 3.50 | 4.10 | 4.31 | 4.50 |
|         | 32                       | 3.02                                     | 3.77 | 4.63 | 5.58 | 6.63  | 7.75  | 8.93  | 10.16 | 11.43 | 2.99                                  | 3.17 | 3.39 | 3.64 | 3.90 | 4.17 | 4.43 | 4.67 | 4.88 |
|         | 38                       | 2.85                                     | 3.56 | 4.37 | 5.27 | 6.25  | 7.28  | 8.36  | 9.48  | 10.63 | 3.54                                  | 3.70 | 3.91 | 4.15 | 4.41 | 4.68 | 4.94 | 5.19 | 5.41 |
|         | 43                       | 2.67                                     | 3.34 | 4.10 | 4.93 | 5.83  | 6.77  | 7.75  | 8.76  | 9.78  | 4.08                                  | 4.22 | 4.40 | 4.62 | 4.87 | 5.12 | 5.38 | 5.63 | 5.85 |
|         | 48                       | 2.38                                     | 2.99 | 3.68 | 4.43 | 5.23  | 6.06  |       |       |       | 4.63                                  | 4.73 | 4.88 | 5.07 | 5.29 | 5.52 |      |      |      |
| ZXL050E | 20                       | 4.42                                     | 5.18 | 6.21 | 7.47 | 8.91  | 10.50 | 12.20 | 13.98 | 15.78 | 2.70                                  | 3.00 | 3.20 | 3.40 | 3.65 | 3.80 | 4.20 | 4.50 | 4.70 |
|         | 27                       | 3.80                                     | 4.58 | 5.58 | 6.78 | 8.12  | 9.57  | 11.09 | 12.64 | 14.19 | 2.92                                  | 3.16 | 3.39 | 3.62 | 3.86 | 4.09 | 4.40 | 4.58 | 4.83 |
|         | 32                       | 3.52                                     | 4.31 | 5.29 | 6.43 | 7.69  | 9.04  | 10.42 | 11.81 | 13.17 | 3.26                                  | 3.49 | 3.72 | 3.96 | 4.20 | 4.46 | 4.72 | 5.00 | 5.29 |
|         | 38                       | 3.25                                     | 4.03 | 4.98 | 6.06 | 7.22  | 8.43  | 9.65  | 10.84 | 11.97 | 3.88                                  | 4.10 | 4.33 | 4.57 | 4.83 | 5.11 | 5.41 | 5.73 | 6.07 |
|         | 43                       | 2.99                                     | 3.77 | 4.69 | 5.71 | 6.78  | 7.87  | 8.95  | 9.97  | 10.89 | 4.43                                  | 4.64 | 4.87 | 5.12 | 5.40 | 5.70 | 6.03 | 6.39 | 6.77 |
|         | 48                       | 2.63                                     | 3.40 | 4.28 | 5.23 | 6.21  | 7.19  |       |       |       | 4.89                                  | 5.10 | 5.33 | 5.59 | 5.88 | 6.21 |      |      |      |
| ZXL060E | 20                       | 4.84                                     | 5.80 | 6.92 | 8.19 | 9.59  | 11.11 | 12.72 | 14.41 | 16.16 | 3.00                                  | 3.20 | 3.50 | 3.76 | 3.90 | 4.15 | 4.41 | 4.67 | 5.20 |
|         | 27                       | 4.49                                     | 5.51 | 6.68 | 7.99 | 9.42  | 10.95 | 12.57 | 14.27 | 16.01 | 3.62                                  | 3.84 | 4.08 | 4.36 | 4.66 | 4.97 | 5.30 | 5.63 | 5.97 |
|         | 32                       | 4.30                                     | 5.32 | 6.48 | 7.77 | 9.17  | 10.67 | 12.26 | 13.91 | 15.60 | 4.04                                  | 4.27 | 4.53 | 4.83 | 5.16 | 5.51 | 5.88 | 6.27 | 6.66 |
|         | 38                       | 4.07                                     | 5.02 | 6.12 | 7.34 | 8.66  | 10.08 | 11.57 | 13.11 | 14.70 | 4.60                                  | 4.84 | 5.12 | 5.44 | 5.80 | 6.19 | 6.61 | 7.05 | 7.51 |
|         | 43                       | 3.81                                     | 4.67 | 5.67 | 6.79 | 8.00  | 9.30  | 10.67 | 12.09 | 13.54 | 5.17                                  | 5.41 | 5.69 | 6.03 | 6.42 | 6.84 | 7.30 | 7.78 | 8.29 |
|         | 48                       | 3.42                                     | 4.16 | 5.03 | 6.00 | 7.07  | 8.22  |       |       |       | 5.88                                  | 6.11 | 6.41 | 6.76 | 7.16 | 7.61 |      |      |      |
| ZXL075E | 20                       | 5.50                                     | 6.64 | 7.94 | 9.41 | 11.06 | 12.91 | 14.96 | 17.24 | 19.75 | 3.47                                  | 3.73 | 4.01 | 4.31 | 4.64 | 4.98 | 5.34 | 5.70 | 6.09 |
|         | 27                       | 4.99                                     | 6.14 | 7.42 | 8.84 | 10.40 | 12.13 | 14.03 | 16.12 | 18.41 | 3.93                                  | 4.20 | 4.51 | 4.84 | 5.21 | 5.59 | 6.01 | 6.44 | 6.89 |
|         | 32                       | 4.75                                     | 5.90 | 7.14 | 8.50 | 9.99  | 11.61 | 13.39 | 15.33 | 17.45 | 4.35                                  | 4.63 | 4.94 | 5.30 | 5.68 | 6.10 | 6.55 | 7.03 | 7.53 |
|         | 38                       | 4.49                                     | 5.61 | 6.80 | 8.08 | 9.46  | 10.94 | 12.55 | 14.30 | 16.19 | 4.98                                  | 5.25 | 5.58 | 5.95 | 6.36 | 6.81 | 7.30 | 7.83 | 8.38 |
|         | 43                       | 4.21                                     | 5.30 | 6.43 | 7.63 | 8.90  | 10.25 | 11.71 | 13.28 | 14.97 | 5.61                                  | 5.89 | 6.22 | 6.60 | 7.03 | 7.51 | 8.03 | 8.59 | 9.19 |
|         | 48                       | 3.81                                     | 4.85 | 5.91 | 7.01 | 8.16  | 9.38  |       |       |       | 6.38                                  | 6.65 | 6.98 | 7.38 | 7.82 | 8.32 |      |      |      |

**Notes:** The rating condition is based on the return gas temperature of 5°C.  
Power includes condenser fan.  
Ambient 38°C and 43°C are typical design conditions for unit selection.

# ZXL Family: Low Temperature

## Capacity and Power (kW) at 60 Hz- TF5/ TF7

# R404A

| Model   | Ambient Temperature (°C) | Capacity<br>Evaporating Temperature (°C) |      |      |       |       |       |       |       |       | Power<br>Evaporating Temperature (°C) |      |      |      |      |       |       |       |       |
|---------|--------------------------|--|------|------|-------|-------|-------|-------|-------|-------|---------------------------------------|------|------|------|------|-------|-------|-------|-------|
|         |                          | -40                                      | -35  | -30  | -25   | -20   | -15   | -10   | -5    | 0     | -40                                   | -35  | -30  | -25  | -20  | -15   | -10   | -5    | 0     |
| ZXL020E | 20                       | 1.85                                     | 2.31 | 2.89 | 3.56  | 4.31  | 5.12  | 5.99  | 6.90  | 7.83  | 1.59                                  | 1.65 | 1.71 | 1.78 | 1.86 | 1.94  | 2.02  | 2.11  | 2.19  |
|         | 27                       | 1.59                                     | 2.09 | 2.69 | 3.37  | 4.10  | 4.88  | 5.69  | 6.52  | 7.35  | 1.83                                  | 1.90 | 1.97 | 2.05 | 2.14 | 2.23  | 2.33  | 2.43  | 2.52  |
|         | 32                       | 1.51                                     | 2.04 | 2.65 | 3.32  | 4.03  | 4.77  | 5.53  | 6.30  | 7.05  | 2.03                                  | 2.10 | 2.18 | 2.27 | 2.36 | 2.46  | 2.57  | 2.67  | 2.78  |
|         | 38                       | 1.46                                     | 2.01 | 2.61 | 3.26  | 3.93  | 4.62  | 5.31  | 5.98  | 6.62  | 2.29                                  | 2.37 | 2.46 | 2.56 | 2.66 | 2.77  | 2.89  | 3.00  | 3.12  |
|         | 43                       | 1.37                                     | 1.92 | 2.52 | 3.14  | 3.78  | 4.41  | 5.03  | 5.61  | 6.16  | 2.54                                  | 2.63 | 2.73 | 2.83 | 2.95 | 3.07  | 3.16  | 3.30  | 3.45  |
|         | 48                       | 1.18                                     | 1.73 | 2.30 | 2.89  | 3.48  | 4.05  | 4.59  | 5.09  | 5.52  | 2.84                                  | 2.93 | 3.04 | 3.15 | 3.27 | 3.40  | 3.50  | 3.65  | 3.80  |
| ZXL025E | 20                       | 2.06                                     | 2.60 | 3.28 | 4.11  | 5.09  | 6.24  | 7.40  | 8.55  | 9.71  | 1.65                                  | 1.78 | 1.91 | 2.03 | 2.13 | 2.19  | 2.26  | 2.32  | 2.39  |
|         | 27                       | 1.94                                     | 2.48 | 3.13 | 3.90  | 4.81  | 5.86  | 6.91  | 7.96  | 9.01  | 2.00                                  | 2.13 | 2.26 | 2.38 | 2.50 | 2.58  | 2.67  | 2.75  | 2.84  |
|         | 32                       | 1.93                                     | 2.46 | 3.08 | 3.80  | 4.64  | 5.61  | 6.58  | 7.55  | 8.52  | 2.27                                  | 2.39 | 2.53 | 2.66 | 2.79 | 2.89  | 3.00  | 3.11  | 3.21  |
|         | 38                       | 1.92                                     | 2.42 | 3.00 | 3.65  | 4.41  | 5.27  | 6.13  | 6.99  | 7.85  | 2.63                                  | 2.75 | 2.90 | 3.05 | 3.20 | 3.34  | 3.47  | 3.60  | 3.74  |
|         | 43                       | 1.86                                     | 2.33 | 2.85 | 3.45  | 4.12  | 4.88  | 5.65  | 6.41  | 7.17  | 2.98                                  | 3.11 | 3.27 | 3.45 | 3.62 | 3.78  | 3.94  | 4.11  | 4.27  |
|         | 48                       | 1.68                                     | 2.11 | 2.58 | 3.11  | 3.69  | 4.35  | 5.01  | 5.66  | 6.32  | 3.40                                  | 3.55 | 3.73 | 3.92 | 4.12 | 4.32  | 4.51  | 4.71  | 4.90  |
| ZXL030E | 20                       | 2.79                                     | 3.39 | 4.15 | 5.04  | 6.02  | 7.06  | 8.09  | 9.12  | 10.15 | 1.98                                  | 2.09 | 2.22 | 2.35 | 2.47 | 2.54  | 2.61  | 2.68  | 2.74  |
|         | 27                       | 2.66                                     | 3.24 | 3.95 | 4.78  | 5.67  | 6.59  | 7.51  | 8.43  | 9.35  | 2.29                                  | 2.39 | 2.52 | 2.68 | 2.83 | 2.96  | 3.09  | 3.22  | 3.35  |
|         | 32                       | 2.56                                     | 3.13 | 3.81 | 4.59  | 5.42  | 6.26  | 7.10  | 7.94  | 8.78  | 2.52                                  | 2.60 | 2.74 | 2.90 | 3.08 | 3.25  | 3.41  | 3.58  | 3.74  |
|         | 38                       | 2.41                                     | 2.95 | 3.60 | 4.32  | 5.07  | 5.81  | 6.56  | 7.30  | 8.05  | 2.88                                  | 2.94 | 3.06 | 3.24 | 3.44 | 3.64  | 3.84  | 4.05  | 4.25  |
|         | 43                       | 2.20                                     | 2.73 | 3.35 | 4.02  | 4.71  | 5.37  | 6.04  | 6.70  | 7.36  | 3.31                                  | 3.34 | 3.45 | 3.63 | 3.84 | 4.07  | 4.30  | 4.53  | 4.76  |
|         | 48                       | 1.89                                     | 2.41 | 3.00 | 3.62  | 4.25  | 4.83  | 5.42  | 6.00  | 6.59  | 3.91                                  | 3.91 | 4.00 | 4.17 | 4.39 | 4.65  | 4.90  | 5.15  | 5.40  |
| ZXL035E | 20                       | 3.14                                     | 3.93 | 4.91 | 6.04  | 7.32  | 8.71  | 10.19 | 11.74 | 13.32 | 2.37                                  | 2.45 | 2.55 | 2.65 | 2.77 | 2.89  | 3.01  | 3.14  | 3.27  |
|         | 27                       | 2.69                                     | 3.56 | 4.58 | 5.72  | 6.97  | 8.30  | 9.68  | 11.09 | 12.50 | 2.73                                  | 2.83 | 2.94 | 3.06 | 3.19 | 3.33  | 3.47  | 3.62  | 3.76  |
|         | 32                       | 2.57                                     | 3.47 | 4.51 | 5.64  | 6.85  | 8.12  | 9.41  | 10.71 | 11.98 | 3.02                                  | 3.12 | 3.25 | 3.38 | 3.52 | 3.67  | 3.83  | 3.98  | 4.14  |
|         | 38                       | 2.48                                     | 3.41 | 4.44 | 5.54  | 6.69  | 7.86  | 9.03  | 10.17 | 11.26 | 3.41                                  | 3.53 | 3.66 | 3.81 | 3.97 | 4.13  | 4.30  | 4.47  | 4.65  |
|         | 43                       | 2.33                                     | 3.27 | 4.28 | 5.34  | 6.42  | 7.50  | 8.55  | 9.55  | 10.47 | 3.79                                  | 3.92 | 4.06 | 4.22 | 4.39 | 4.57  | 4.72  | 4.92  | 5.14  |
|         | 48                       | 2.00                                     | 2.94 | 3.92 | 4.92  | 5.92  | 6.89  | 7.81  | 8.65  | 9.39  | 4.23                                  | 4.37 | 4.53 | 4.70 | 4.88 | 5.07  | 5.22  | 5.44  | 5.67  |
| ZXL040E | 20                       | 3.75                                     | 4.74 | 5.97 | 7.48  | 9.27  | 11.37 | 13.46 | 15.56 | 17.66 | 2.56                                  | 2.76 | 2.96 | 3.14 | 3.30 | 3.40  | 3.50  | 3.60  | 3.70  |
|         | 27                       | 3.54                                     | 4.52 | 5.70 | 7.10  | 8.75  | 10.66 | 12.57 | 14.49 | 16.40 | 3.11                                  | 3.30 | 3.50 | 3.69 | 3.87 | 4.00  | 4.13  | 4.27  | 4.40  |
|         | 32                       | 3.52                                     | 4.48 | 5.60 | 6.92  | 8.45  | 10.21 | 11.98 | 13.74 | 15.50 | 3.52                                  | 3.70 | 3.91 | 4.13 | 4.32 | 4.49  | 4.65  | 4.81  | 4.98  |
|         | 38                       | 3.50                                     | 4.41 | 5.45 | 6.65  | 8.02  | 9.59  | 11.16 | 12.72 | 14.29 | 4.07                                  | 4.27 | 4.49 | 4.73 | 4.96 | 5.17  | 5.38  | 5.59  | 5.80  |
|         | 43                       | 3.38                                     | 4.23 | 5.19 | 6.27  | 7.50  | 8.89  | 10.27 | 11.66 | 13.05 | 4.62                                  | 4.83 | 5.07 | 5.34 | 5.61 | 5.86  | 6.11  | 6.37  | 6.62  |
|         | 48                       | 3.05                                     | 3.84 | 4.70 | 5.66  | 6.72  | 7.92  | 9.11  | 10.31 | 11.50 | 5.27                                  | 5.50 | 5.78 | 6.08 | 6.39 | 6.69  | 6.99  | 7.29  | 7.60  |
| ZXL050E | 20                       | 5.36                                     | 5.97 | 6.95 | 8.27  | 9.92  | 11.86 | 14.08 | 16.54 | 19.21 | 3.56                                  | 3.85 | 4.06 | 4.20 | 4.32 | 4.42  | 4.53  | 4.68  | 4.87  |
|         | 27                       | 5.11                                     | 5.87 | 6.92 | 8.25  | 9.82  | 11.62 | 13.60 | 15.76 | 18.06 | 3.74                                  | 4.02 | 4.26 | 4.46 | 4.66 | 4.87  | 5.12  | 5.44  | 5.84  |
|         | 32                       | 4.78                                     | 5.61 | 6.70 | 8.00  | 9.49  | 11.15 | 12.95 | 14.86 | 16.86 | 3.91                                  | 4.19 | 4.45 | 4.71 | 5.00 | 5.32  | 5.72  | 6.20  | 6.80  |
|         | 38                       | 4.32                                     | 5.23 | 6.31 | 7.55  | 8.92  | 10.39 | 11.93 | 13.52 | 15.14 | 4.80                                  | 5.03 | 5.27 | 5.53 | 5.85 | 6.24  | 6.72  | 7.32  | 8.07  |
|         | 43                       | 3.99                                     | 4.93 | 5.99 | 7.16  | 8.39  | 9.68  | 10.99 | 12.29 | 13.56 | 5.62                                  | 5.79 | 5.98 | 6.22 | 6.54 | 6.96  | 7.42  | 8.15  | 9.06  |
|         | 48                       | 3.79                                     | 4.74 | 5.75 | 6.82  | 7.90  | 8.98  | 10.03 | 11.02 | 11.92 | 6.35                                  | 6.42 | 6.55 | 6.75 | 7.05 | 7.47  | 7.96  | 8.74  | 9.73  |
| ZXL060E | 20                       | 5.85                                     | 7.17 | 8.69 | 10.36 | 12.14 | 14.01 | 15.92 | 17.83 | 19.70 | 4.44                                  | 4.51 | 4.79 | 5.18 | 5.62 | 6.02  | 6.29  | 6.37  | 6.44  |
|         | 27                       | 5.68                                     | 6.94 | 8.36 | 9.90  | 11.54 | 13.22 | 14.92 | 16.60 | 18.22 | 4.88                                  | 4.97 | 5.28 | 5.72 | 6.22 | 6.70  | 7.07  | 7.26  | 7.45  |
|         | 32                       | 5.51                                     | 6.71 | 8.06 | 9.51  | 11.03 | 12.59 | 14.14 | 15.64 | 17.07 | 5.37                                  | 5.45 | 5.77 | 6.23 | 6.76 | 7.27  | 7.70  | 7.95  | 8.20  |
|         | 38                       | 5.25                                     | 6.38 | 7.63 | 8.97  | 10.35 | 11.74 | 13.10 | 14.40 | 15.59 | 6.17                                  | 6.23 | 6.53 | 6.99 | 7.54 | 8.08  | 8.55  | 8.85  | 8.92  |
|         | 43                       | 4.98                                     | 6.04 | 7.21 | 8.45  | 9.71  | 10.95 | 12.15 | 13.27 | 14.26 | 7.04                                  | 7.06 | 7.33 | 7.78 | 8.32 | 8.87  | 9.24  | 9.64  | 9.85  |
|         | 48                       | 4.65                                     | 5.65 | 6.73 | 7.86  | 8.99  | 10.09 | 11.13 | 12.06 | 12.85 | 8.05                                  | 8.07 | 8.30 | 8.72 | 9.24 | 9.79  | 10.14 | 10.56 | 10.80 |
| ZXL075E | 20                       | 6.81                                     | 7.58 | 8.82 | 10.50 | 12.60 | 15.07 | 17.88 | 21.00 | 24.40 | 4.99                                  | 5.39 | 5.68 | 5.89 | 6.05 | 6.19  | 6.34  | 6.55  | 6.82  |
|         | 27                       | 6.49                                     | 7.45 | 8.79 | 10.48 | 12.47 | 14.75 | 17.28 | 20.02 | 22.94 | 5.23                                  | 5.63 | 5.96 | 6.24 | 6.52 | 6.82  | 7.17  | 7.61  | 8.17  |
|         | 32                       | 6.07                                     | 7.13 | 8.50 | 10.15 | 12.05 | 14.16 | 16.44 | 18.87 | 21.42 | 5.48                                  | 5.87 | 6.24 | 6.60 | 6.99 | 7.45  | 8.00  | 8.68  | 9.51  |
|         | 38                       | 5.49                                     | 6.64 | 8.02 | 9.59  | 11.33 | 13.19 | 15.15 | 17.18 | 19.23 | 6.72                                  | 7.04 | 7.37 | 7.74 | 8.18 | 8.73  | 9.41  | 10.25 | 11.30 |
|         | 43                       | 5.07                                     | 6.26 | 7.61 | 9.09  | 10.66 | 12.29 | 13.94 | 15.60 | 17.21 | 7.87                                  | 8.10 | 8.37 | 8.71 | 9.16 | 9.74  | 10.40 | 11.41 | 12.68 |
|         | 48                       | 4.81                                     | 6.01 | 7.31 | 8.66  | 10.04 | 11.40 | 12.73 | 13.98 | 15.13 | 8.89                                  | 8.99 | 9.16 | 9.44 | 9.86 | 10.45 | 11.15 | 12.24 | 13.63 |

**Notes:** The rating condition is based on the return gas temperature of 5°C.  
 Power includes condenser fan.  
 Ambient 38°C and 43°C are typical design conditions for unit selection.

# ZXL Family: Low Temperature

## Capacity and Power (kW) at 50 Hz - PFJ/TFD/TF5

# R407F

| Model   | Ambient Temperature (°C) | Capacity Evaporating Temperature (°C) |      |      |      |       |       |       |       |       | Power Evaporating Temperature (°C) |      |      |      |      |      |      |      |      |
|---------|--------------------------|---------------------------------------|------|------|------|-------|-------|-------|-------|-------|------------------------------------|------|------|------|------|------|------|------|------|
|         |                          | -40                                   | -35  | -30  | -25  | -20   | -15   | -10   | -5    | 0     | -40                                | -35  | -30  | -25  | -20  | -15  | -10  | -5   | 0    |
| ZXL020E | 20                       | 1.35                                  | 1.74 | 2.24 | 2.85 | 3.55  | 4.33  | 5.17  | 6.06  | 6.99  | 1.32                               | 1.39 | 1.45 | 1.49 | 1.53 | 1.57 | 1.62 | 1.70 | 1.80 |
|         | 27                       | 1.32                                  | 1.68 | 2.15 | 2.72 | 3.37  | 4.10  | 4.88  | 5.72  | 6.58  | 1.69                               | 1.76 | 1.82 | 1.86 | 1.90 | 1.94 | 1.98 | 2.05 | 2.14 |
|         | 32                       | 1.25                                  | 1.59 | 2.04 | 2.59 | 3.22  | 3.91  | 4.67  | 5.47  | 6.29  | 1.74                               | 1.83 | 1.90 | 1.96 | 2.01 | 2.06 | 2.11 | 2.19 | 2.28 |
|         | 38                       | 1.14                                  | 1.47 | 1.91 | 2.43 | 3.04  | 3.71  | 4.43  | 5.19  | 5.98  | 1.80                               | 1.93 | 2.03 | 2.12 | 2.20 | 2.27 | 2.35 | 2.45 | 2.57 |
|         | 43                       | 1.06                                  | 1.38 | 1.81 | 2.33 | 2.92  | 3.57  | 4.27  | 5.01  | 5.78  | 2.02                               | 2.19 | 2.34 | 2.46 | 2.57 | 2.68 | 2.80 | 2.92 | 3.07 |
|         | 48                       | 1.00                                  | 1.33 | 1.76 | 2.27 | 2.85  | 3.49  |       |       |       | 2.55                               | 2.77 | 2.96 | 3.14 | 3.30 | 3.45 |      |      |      |
| ZXL025E | 20                       | 1.61                                  | 2.12 | 2.76 | 3.55 | 4.41  | 5.40  | 6.51  | 7.76  | 9.07  | 1.59                               | 1.69 | 1.74 | 1.82 | 1.86 | 1.92 | 2.01 | 2.13 | 2.29 |
|         | 27                       | 1.58                                  | 2.05 | 2.64 | 3.38 | 4.18  | 5.11  | 6.16  | 7.32  | 8.54  | 2.06                               | 2.15 | 2.18 | 2.23 | 2.24 | 2.28 | 2.33 | 2.45 | 2.59 |
|         | 32                       | 1.49                                  | 1.94 | 2.51 | 3.22 | 3.99  | 4.88  | 5.89  | 7.00  | 8.17  | 2.07                               | 2.18 | 2.27 | 2.33 | 2.34 | 2.42 | 2.48 | 2.57 | 2.69 |
|         | 38                       | 1.36                                  | 1.80 | 2.35 | 3.03 | 3.77  | 4.62  | 5.59  | 6.65  | 7.76  | 2.08                               | 2.17 | 2.34 | 2.48 | 2.56 | 2.71 | 2.82 | 2.95 | 3.09 |
|         | 43                       | 1.26                                  | 1.69 | 2.23 | 2.90 | 3.62  | 4.46  | 5.39  | 6.42  | 7.50  | 2.49                               | 2.46 | 2.63 | 2.86 | 3.02 | 3.27 | 3.43 | 3.62 | 3.81 |
|         | 48                       | 1.20                                  | 1.62 | 2.16 | 2.82 | 3.54  | 4.36  |       |       |       | 3.18                               | 3.38 | 3.44 | 3.71 | 3.99 | 4.32 |      |      |      |
| ZXL030E | 20                       | 1.92                                  | 2.44 | 3.12 | 3.90 | 4.80  | 5.88  | 7.17  | 8.69  | 10.34 | 1.75                               | 1.90 | 1.99 | 2.06 | 2.13 | 2.14 | 2.23 | 2.34 | 2.49 |
|         | 27                       | 1.85                                  | 2.36 | 2.99 | 3.72 | 4.56  | 5.57  | 6.77  | 8.20  | 9.74  | 2.23                               | 2.43 | 2.49 | 2.52 | 2.57 | 2.53 | 2.59 | 2.69 | 2.82 |
|         | 32                       | 1.75                                  | 2.24 | 2.84 | 3.54 | 4.35  | 5.32  | 6.47  | 7.84  | 9.31  | 2.24                               | 2.46 | 2.59 | 2.64 | 2.69 | 2.69 | 2.75 | 2.82 | 2.92 |
|         | 38                       | 1.60                                  | 2.07 | 2.65 | 3.33 | 4.11  | 5.04  | 6.14  | 7.45  | 8.85  | 2.26                               | 2.45 | 2.67 | 2.81 | 2.94 | 3.01 | 3.13 | 3.23 | 3.36 |
|         | 43                       | 1.48                                  | 1.94 | 2.52 | 3.19 | 3.95  | 4.86  | 5.93  | 7.19  | 8.55  | 2.70                               | 2.78 | 3.00 | 3.24 | 3.46 | 3.64 | 3.81 | 3.97 | 4.13 |
|         | 48                       | 1.40                                  | 1.87 | 2.44 | 3.10 | 3.86  | 4.75  |       |       |       | 3.45                               | 3.81 | 3.93 | 4.20 | 4.58 | 4.81 |      |      |      |
| ZXL035E | 20                       | 2.61                                  | 3.36 | 4.19 | 5.04 | 5.99  | 7.07  | 8.33  | 9.84  | 11.63 | 1.93                               | 1.99 | 2.11 | 2.27 | 2.51 | 2.73 | 2.99 | 3.31 | 3.63 |
|         | 27                       | 2.57                                  | 3.21 | 4.02 | 4.84 | 5.75  | 6.78  | 7.96  | 9.37  | 11.06 | 2.31                               | 2.30 | 2.42 | 2.58 | 2.82 | 3.05 | 3.31 | 3.65 | 3.99 |
|         | 32                       | 2.52                                  | 3.16 | 3.92 | 4.69 | 5.54  | 6.51  | 7.63  | 8.98  | 10.58 | 2.65                               | 2.63 | 2.74 | 2.90 | 3.15 | 3.39 | 3.66 | 4.03 | 4.40 |
|         | 38                       | 2.37                                  | 3.01 | 3.69 | 4.42 | 5.18  | 6.08  | 7.13  | 8.38  | 9.90  | 3.07                               | 3.09 | 3.19 | 3.37 | 3.63 | 3.90 | 4.21 | 4.62 | 5.06 |
|         | 43                       | 2.28                                  | 2.87 | 3.51 | 4.17 | 4.89  | 5.73  | 6.70  | 7.88  | 9.33  | 3.54                               | 3.56 | 3.68 | 3.87 | 4.17 | 4.48 | 4.82 | 5.30 | 5.82 |
|         | 48                       | 2.20                                  | 2.83 | 3.42 | 4.02 | 4.68  | 5.46  |       |       |       | 4.12                               | 4.27 | 4.39 | 4.59 | 4.94 | 5.28 |      |      |      |
| ZXL040E | 20                       | 3.11                                  | 3.96 | 4.92 | 6.01 | 7.25  | 8.63  | 10.18 | 11.90 | 13.80 | 2.30                               | 2.42 | 2.60 | 2.84 | 3.12 | 3.43 | 3.76 | 4.08 | 4.40 |
|         | 27                       | 3.06                                  | 3.87 | 4.80 | 5.83 | 7.00  | 8.30  | 9.76  | 11.38 | 13.17 | 2.74                               | 2.85 | 3.03 | 3.26 | 3.54 | 3.85 | 4.18 | 4.52 | 4.84 |
|         | 32                       | 2.93                                  | 3.72 | 4.60 | 5.59 | 6.70  | 7.94  | 9.33  | 10.86 | 12.56 | 3.08                               | 3.19 | 3.38 | 3.63 | 3.93 | 4.26 | 4.61 | 4.97 | 5.32 |
|         | 38                       | 2.73                                  | 3.47 | 4.30 | 5.23 | 6.26  | 7.42  | 8.71  | 10.13 | 11.72 | 3.53                               | 3.68 | 3.90 | 4.19 | 4.52 | 4.90 | 5.29 | 5.70 | 6.11 |
|         | 43                       | 2.56                                  | 3.26 | 4.04 | 4.90 | 5.86  | 6.94  | 8.14  | 9.47  | 10.95 | 3.98                               | 4.17 | 4.44 | 4.77 | 5.16 | 5.58 | 6.04 | 6.50 | 6.92 |
|         | 48                       | 2.42                                  | 3.07 | 3.78 | 4.58 | 5.47  | 6.46  |       |       |       | 4.52                               | 4.77 | 5.10 | 5.49 | 5.94 | 6.44 |      |      |      |
| ZXL050E | 20                       | 3.76                                  | 4.52 | 5.65 | 7.10 | 8.78  | 10.62 | 12.55 | 14.47 | 16.30 | 2.77                               | 3.01 | 3.13 | 3.27 | 3.48 | 3.71 | 3.98 | 4.38 | 4.73 |
|         | 27                       | 3.50                                  | 4.25 | 5.33 | 6.70 | 8.28  | 9.99  | 11.75 | 13.47 | 15.08 | 2.95                               | 3.13 | 3.28 | 3.45 | 3.63 | 3.94 | 4.25 | 4.60 | 5.12 |
|         | 32                       | 3.23                                  | 3.97 | 5.04 | 6.36 | 7.87  | 9.51  | 11.15 | 12.74 | 14.20 | 3.39                               | 3.56 | 3.72 | 3.87 | 4.05 | 4.36 | 4.61 | 5.03 | 5.56 |
|         | 38                       | 2.90                                  | 3.62 | 4.67 | 5.96 | 7.40  | 8.94  | 10.48 | 11.92 | 13.22 | 4.23                               | 4.35 | 4.47 | 4.61 | 4.79 | 5.06 | 5.35 | 5.77 | 6.33 |
|         | 43                       | 2.69                                  | 3.38 | 4.42 | 5.68 | 7.08  | 8.55  | 10.00 | 11.34 | 12.47 | 4.99                               | 4.98 | 5.09 | 5.22 | 5.51 | 5.85 | 6.17 | 6.50 | 6.94 |
|         | 48                       | 2.55                                  | 3.19 | 4.24 | 5.48 | 6.86  | 8.28  |       |       |       | 5.60                               | 5.40 | 5.55 | 5.87 | 6.20 | 6.62 |      |      |      |
| ZXL060E | 20                       | 4.16                                  | 5.21 | 6.51 | 8.05 | 9.81  | 11.76 | 13.70 | 15.71 | 17.54 | 3.11                               | 3.31 | 3.54 | 3.74 | 3.85 | 4.17 | 4.35 | 4.83 | 5.32 |
|         | 27                       | 4.14                                  | 5.11 | 6.38 | 7.89 | 9.61  | 11.43 | 13.32 | 15.21 | 17.02 | 3.65                               | 3.81 | 3.95 | 4.15 | 4.39 | 4.71 | 5.12 | 5.65 | 6.28 |
|         | 32                       | 3.94                                  | 4.90 | 6.17 | 7.68 | 9.38  | 11.22 | 13.12 | 15.01 | 16.82 | 4.20                               | 4.36 | 4.52 | 4.72 | 4.98 | 5.31 | 5.74 | 6.30 | 7.00 |
|         | 38                       | 3.60                                  | 4.52 | 5.74 | 7.22 | 8.88  | 10.69 | 12.56 | 14.42 | 16.23 | 4.97                               | 5.13 | 5.29 | 5.49 | 5.75 | 6.09 | 6.54 | 7.10 | 7.83 |
|         | 43                       | 3.33                                  | 4.18 | 5.34 | 6.75 | 8.36  | 10.11 | 11.93 | 13.75 | 15.51 | 5.67                               | 5.81 | 5.95 | 6.14 | 6.40 | 6.74 | 7.19 | 7.76 | 8.49 |
|         | 48                       | 3.13                                  | 3.90 | 4.98 | 6.29 | 7.81  | 9.47  |       |       |       | 6.36                               | 6.48 | 6.61 | 6.78 | 7.02 | 7.34 |      |      |      |
| ZXL075E | 20                       | 4.67                                  | 5.79 | 7.23 | 8.95 | 10.90 | 13.06 | 15.39 | 17.85 | 20.40 | 3.56                               | 3.74 | 3.93 | 4.14 | 4.42 | 4.78 | 5.26 | 5.89 | 6.69 |
|         | 27                       | 4.60                                  | 5.69 | 7.08 | 8.73 | 10.61 | 12.66 | 14.87 | 17.18 | 19.57 | 3.97                               | 4.17 | 4.37 | 4.61 | 4.91 | 5.30 | 5.81 | 6.46 | 7.30 |
|         | 32                       | 4.36                                  | 5.44 | 6.80 | 8.41 | 10.22 | 12.21 | 14.33 | 16.54 | 18.82 | 4.53                               | 4.73 | 4.93 | 5.17 | 5.48 | 5.88 | 6.40 | 7.07 | 7.92 |
|         | 38                       | 3.98                                  | 5.05 | 6.38 | 7.94 | 9.70  | 11.60 | 13.63 | 15.73 | 17.87 | 5.38                               | 5.57 | 5.77 | 6.00 | 6.30 | 6.70 | 7.22 | 7.89 | 8.74 |
|         | 43                       | 3.68                                  | 4.75 | 6.06 | 7.59 | 9.30  | 11.14 | 13.09 | 15.10 | 17.14 | 6.15                               | 6.32 | 6.50 | 6.72 | 7.01 | 7.40 | 7.90 | 8.57 | 9.41 |
|         | 48                       | 3.49                                  | 4.55 | 5.85 | 7.35 | 9.01  | 10.80 |       |       |       | 6.90                               | 7.05 | 7.20 | 7.40 | 7.66 | 8.03 |      |      |      |

**Notes:** The rating condition is based on a return gas temperature of 5°C.  
 Power includes condenser fan.  
 Ambient 38°C and 43°C are typical design conditions for unit selection.

# ZXL Family: Low Temperature

## Capacity and Power (kW) at 60 Hz - TF5/TF7

# R407F

| Model   | Ambient Temperature (°C) | Capacity Evaporating Temperature (°C) |      |      |       |       |       | Power Evaporating Temperature (°C) |      |      |      |      |      |
|---------|--------------------------|---------------------------------------|------|------|-------|-------|-------|------------------------------------|------|------|------|------|------|
|         |                          | -40                                   | -35  | -30  | -25   | -20   | -15   | -40                                | -35  | -30  | -25  | -20  | -15  |
| ZXL020E | 20                       | 1.64                                  | 2.13 | 2.76 | 3.54  | 4.43  | 5.44  | 1.66                               | 1.74 | 1.82 | 1.86 | 1.93 | 1.93 |
|         | 27                       | 1.60                                  | 2.05 | 2.64 | 3.36  | 4.20  | 5.14  | 2.09                               | 2.17 | 2.26 | 2.30 | 2.37 | 2.35 |
|         | 32                       | 1.51                                  | 1.94 | 2.51 | 3.20  | 4.00  | 4.90  | 2.12                               | 2.23 | 2.34 | 2.40 | 2.47 | 2.47 |
|         | 38                       | 1.38                                  | 1.79 | 2.33 | 3.00  | 3.77  | 4.63  | 2.18                               | 2.32 | 2.47 | 2.56 | 2.68 | 2.70 |
|         | 43                       | 1.27                                  | 1.68 | 2.21 | 2.86  | 3.62  | 4.46  | 2.41                               | 2.61 | 2.80 | 2.94 | 3.09 | 3.15 |
|         | 48                       | 1.20                                  | 1.61 | 2.14 | 2.78  | 3.52  | 4.35  | 3.01                               | 3.26 | 3.51 | 3.70 | 3.92 | 4.01 |
|         | 50                       | 1.17                                  | 1.58 | 2.11 | 2.75  | 3.48  | 4.30  | 3.35                               | 3.62 | 3.91 | 4.13 | 4.39 | 4.49 |
| ZXL025E | 20                       | 1.96                                  | 2.59 | 3.40 | 4.40  | 5.50  | 6.79  | 1.99                               | 2.11 | 2.19 | 2.27 | 2.34 | 2.36 |
|         | 27                       | 1.91                                  | 2.50 | 3.25 | 4.18  | 5.21  | 6.41  | 2.55                               | 2.65 | 2.70 | 2.75 | 2.80 | 2.77 |
|         | 32                       | 1.81                                  | 2.37 | 3.08 | 3.98  | 4.97  | 6.11  | 2.52                               | 2.65 | 2.79 | 2.85 | 2.89 | 2.90 |
|         | 38                       | 1.65                                  | 2.18 | 2.87 | 3.73  | 4.68  | 5.78  | 2.52                               | 2.61 | 2.84 | 3.00 | 3.12 | 3.22 |
|         | 43                       | 1.52                                  | 2.05 | 2.72 | 3.56  | 4.49  | 5.56  | 2.97                               | 2.93 | 3.15 | 3.42 | 3.63 | 3.84 |
|         | 48                       | 1.44                                  | 1.97 | 2.63 | 3.46  | 4.38  | 5.42  | 3.75                               | 3.98 | 4.07 | 4.38 | 4.74 | 5.02 |
|         | 50                       | 1.40                                  | 1.93 | 2.60 | 3.42  | 4.32  | 5.36  | 4.21                               | 4.67 | 4.62 | 4.93 | 5.40 | 5.72 |
| ZXL030E | 20                       | 2.34                                  | 2.98 | 3.84 | 4.84  | 6.00  | 7.40  | 2.15                               | 2.38 | 2.50 | 2.58 | 2.61 | 2.62 |
|         | 27                       | 2.24                                  | 2.88 | 3.67 | 4.60  | 5.68  | 6.99  | 2.76                               | 2.91 | 3.03 | 3.12 | 3.11 | 3.08 |
|         | 32                       | 2.11                                  | 2.72 | 3.48 | 4.38  | 5.41  | 6.66  | 2.73                               | 2.99 | 3.18 | 3.23 | 3.22 | 3.23 |
|         | 38                       | 1.93                                  | 2.51 | 3.24 | 4.10  | 5.10  | 6.30  | 2.73                               | 2.95 | 3.24 | 3.40 | 3.47 | 3.58 |
|         | 43                       | 1.78                                  | 2.36 | 3.08 | 3.92  | 4.89  | 6.06  | 3.22                               | 3.30 | 3.60 | 3.87 | 4.04 | 4.27 |
|         | 48                       | 1.68                                  | 2.26 | 2.98 | 3.81  | 4.77  | 5.91  | 4.06                               | 4.48 | 4.65 | 4.96 | 5.28 | 5.58 |
|         | 50                       | 1.64                                  | 2.22 | 2.93 | 3.76  | 4.71  | 5.85  | 4.56                               | 5.26 | 5.27 | 5.59 | 6.02 | 6.36 |
| ZXL035E | 20                       | 3.16                                  | 4.11 | 5.16 | 6.25  | 7.48  | 8.89  | 2.36                               | 2.49 | 2.65 | 2.85 | 3.16 | 3.36 |
|         | 27                       | 3.12                                  | 3.92 | 4.94 | 5.99  | 7.16  | 8.50  | 2.82                               | 2.95 | 3.07 | 3.19 | 3.52 | 3.71 |
|         | 32                       | 3.05                                  | 3.84 | 4.80 | 5.79  | 6.89  | 8.15  | 3.23                               | 3.20 | 3.36 | 3.55 | 3.88 | 4.07 |
|         | 38                       | 2.87                                  | 3.65 | 4.52 | 5.44  | 6.43  | 7.60  | 3.70                               | 3.71 | 3.86 | 4.07 | 4.42 | 4.63 |
|         | 43                       | 2.74                                  | 3.48 | 4.29 | 5.14  | 6.06  | 7.15  | 4.22                               | 4.24 | 4.41 | 4.62 | 5.02 | 5.25 |
|         | 48                       | 2.65                                  | 3.43 | 4.17 | 4.94  | 5.79  | 6.79  | 4.86                               | 5.02 | 5.20 | 5.42 | 5.88 | 6.13 |
|         | 50                       | 2.61                                  | 3.40 | 4.12 | 4.85  | 5.68  | 6.64  | 5.15                               | 5.40 | 5.59 | 5.82 | 6.30 | 6.56 |
| ZXL040E | 20                       | 3.77                                  | 4.84 | 6.06 | 7.46  | 9.05  | 10.85 | 2.88                               | 3.02 | 3.27 | 3.56 | 3.94 | 4.22 |
|         | 27                       | 3.70                                  | 4.73 | 5.89 | 7.22  | 8.72  | 10.42 | 3.39                               | 3.51 | 3.76 | 4.04 | 4.42 | 4.68 |
|         | 32                       | 3.54                                  | 4.53 | 5.64 | 6.91  | 8.34  | 9.95  | 3.76                               | 3.89 | 4.15 | 4.44 | 4.84 | 5.11 |
|         | 38                       | 3.29                                  | 4.22 | 5.27 | 6.45  | 7.78  | 9.27  | 4.26                               | 4.42 | 4.72 | 5.06 | 5.50 | 5.81 |
|         | 43                       | 3.08                                  | 3.95 | 4.93 | 6.03  | 7.27  | 8.66  | 4.74                               | 4.96 | 5.31 | 5.70 | 6.20 | 6.55 |
|         | 48                       | 2.90                                  | 3.71 | 4.61 | 5.62  | 6.76  | 8.04  | 5.33                               | 5.60 | 6.03 | 6.48 | 7.07 | 7.47 |
|         | 50                       | 2.83                                  | 3.61 | 4.48 | 5.45  | 6.55  | 7.79  | 5.60                               | 5.91 | 6.38 | 6.87 | 7.49 | 7.92 |
| ZXL050E | 20                       | 4.56                                  | 5.53 | 6.96 | 8.81  | 10.97 | 13.36 | 3.46                               | 3.75 | 3.94 | 4.09 | 4.38 | 4.56 |
|         | 27                       | 4.24                                  | 5.18 | 6.55 | 8.29  | 10.32 | 12.54 | 3.64                               | 3.86 | 4.08 | 4.26 | 4.53 | 4.79 |
|         | 32                       | 3.90                                  | 4.84 | 6.18 | 7.85  | 9.79  | 11.91 | 4.14                               | 4.34 | 4.56 | 4.73 | 4.99 | 5.24 |
|         | 38                       | 3.50                                  | 4.41 | 5.72 | 7.34  | 9.19  | 11.18 | 5.10                               | 5.23 | 5.42 | 5.57 | 5.82 | 6.01 |
|         | 43                       | 3.24                                  | 4.09 | 5.40 | 6.99  | 8.77  | 10.67 | 5.96                               | 5.92 | 6.10 | 6.23 | 6.62 | 6.87 |
|         | 48                       | 3.06                                  | 3.86 | 5.17 | 6.73  | 8.48  | 10.31 | 6.60                               | 6.35 | 6.57 | 6.93 | 7.38 | 7.68 |
|         | 50                       | 2.99                                  | 3.77 | 5.07 | 6.62  | 8.35  | 10.15 | 6.88                               | 6.52 | 6.75 | 7.23 | 7.70 | 8.03 |
| ZXL060E | 20                       | 5.05                                  | 6.38 | 8.01 | 9.98  | 12.25 | 14.78 | 3.85                               | 4.00 | 4.30 | 4.53 | 4.68 | 4.90 |
|         | 27                       | 5.01                                  | 6.23 | 7.84 | 9.77  | 11.97 | 14.35 | 4.52                               | 4.69 | 4.91 | 5.14 | 5.47 | 5.72 |
|         | 32                       | 4.77                                  | 5.97 | 7.57 | 9.49  | 11.67 | 14.05 | 5.14                               | 5.31 | 5.55 | 5.77 | 6.13 | 6.38 |
|         | 38                       | 4.35                                  | 5.49 | 7.03 | 8.89  | 11.02 | 13.36 | 6.00                               | 6.18 | 6.41 | 6.63 | 6.99 | 7.23 |
|         | 43                       | 4.01                                  | 5.07 | 6.53 | 8.31  | 10.35 | 12.61 | 6.76                               | 6.91 | 7.12 | 7.34 | 7.70 | 7.91 |
|         | 48                       | 3.77                                  | 4.73 | 6.07 | 7.72  | 9.65  | 11.78 | 7.50                               | 7.61 | 7.83 | 8.00 | 8.34 | 8.52 |
|         | 50                       | 3.66                                  | 4.58 | 5.88 | 7.48  | 9.37  | 11.44 | 7.83                               | 7.92 | 8.14 | 8.29 | 8.61 | 8.77 |
| ZXL075E | 20                       | 5.67                                  | 7.08 | 8.90 | 11.09 | 13.61 | 16.43 | 4.45                               | 4.67 | 4.93 | 5.19 | 5.57 | 5.88 |
|         | 27                       | 5.57                                  | 6.95 | 8.71 | 10.81 | 13.22 | 15.89 | 4.90                               | 5.13 | 5.42 | 5.70 | 6.11 | 6.44 |
|         | 32                       | 5.27                                  | 6.62 | 8.34 | 10.38 | 12.71 | 15.29 | 5.53                               | 5.76 | 6.05 | 6.33 | 6.75 | 7.06 |
|         | 38                       | 4.80                                  | 6.13 | 7.81 | 9.79  | 12.04 | 14.50 | 6.49                               | 6.70 | 6.99 | 7.25 | 7.67 | 7.95 |
|         | 43                       | 4.44                                  | 5.76 | 7.40 | 9.34  | 11.51 | 13.90 | 7.34                               | 7.52 | 7.79 | 8.03 | 8.43 | 8.68 |
|         | 48                       | 4.20                                  | 5.51 | 7.13 | 9.02  | 11.14 | 13.45 | 8.14                               | 8.28 | 8.52 | 8.73 | 9.11 | 9.32 |
|         | 50                       | 4.10                                  | 5.41 | 7.02 | 8.89  | 10.98 | 13.25 | 8.49                               | 8.60 | 8.82 | 9.01 | 9.37 | 9.55 |

**Notes:** The rating condition is based on a return gas temperature of 5°C.  
 Power includes condenser fan.  
 Ambient 38°C and 43°C are typical design conditions for unit selection.

# ZX Family: Medium Temperature

## Technical Data at 50 Hz - PFJ

| Family              |                       |            |                   | ZX               |                  |                  |             |
|---------------------|-----------------------|------------|-------------------|------------------|------------------|------------------|-------------|
| Nominal Rating      | Horsepower            | HP         | 2                 | 2.5              | 3                | 4                |             |
| Model Name          |                       |            | ZX0200<br>ZX020E  | ZX0250<br>ZX025E | ZX0300<br>ZX030E | ZX0400<br>ZX040E |             |
| Performance         | R22                   | ET/AT/RGT  | °C                | -7/32/18         |                  |                  |             |
|                     |                       | Capacity   | kW                | 3.85             | 4.51             | 5.53             | 7.57        |
|                     |                       | COP        | W/W               | 2.41             | 2.69             | 2.64             | 2.54        |
|                     | R404A                 | ET/AT/RGT  | °C                | -7/32/18         |                  |                  |             |
|                     |                       | Capacity   | kW                | 4.30             | 4.84             | 6.00             | 7.80        |
|                     |                       | COP        | W/W               | 2.26             | 2.37             | 2.35             | 2.29        |
|                     | R407F                 | ET/AT/RGT  | °C                | -7/32/18         |                  |                  |             |
|                     |                       | Capacity   | kW                | 4.40             | 4.99             | 6.31             | 8.37        |
|                     |                       | COP        | W/W               | 2.32             | 2.40             | 2.38             | 2.38        |
|                     | Sound Pressure Level  | @1m        | dB(A)             | 60               |                  |                  |             |
| Compressor          | Model Name            | R22        |                   | ZX15KC-PFJ       | ZX19KC-PFJ       | ZX21KC-PFJ       | ZX29KC-PFJ  |
|                     |                       | R404A      |                   | ZX15KCE-PFJ      | ZX19KCE-PFJ      | ZX21KCE-PFJ      | ZX29KCE-PFJ |
|                     |                       | R407F      |                   | ZX15KCE-PFJ      | ZX19KCE-PFJ      | ZX21KCE-PFJ      | ZX29KCE-PFJ |
|                     | Rated Load Ampere     | R22        | Amp               | 13.2             | 14.6             | 16.4             | 20.0        |
|                     |                       | R404A      | Amp               | 13.2             | 14.6             | 16.4             | 20.0        |
|                     |                       | R407F      | Amp               | 13.2             | 14.6             | 16.4             | 20.0        |
|                     | Locked Rotor Ampere   | R22        | Amp               | 58.0             | 61.0             | 82.0             | 114.0       |
|                     |                       | R404A      | Amp               | 58.0             | 61.0             | 82.0             | 114.0       |
|                     |                       | R407F      | Amp               | 58.0             | 61.0             | 82.0             | 114.0       |
|                     | Oil Type              | R22        |                   | MINERAL          |                  |                  |             |
| R404A               |                       |            | POE               |                  |                  |                  |             |
| R407F               |                       |            | POE               |                  |                  |                  |             |
| Oil Recharge Volume | R22/R404A/R407F       |            | 1.33              | 1.33             | 1.33             | 1.83             |             |
| Fan Motor           | Number of Fan         | Pieces     | 1                 | 1                | 1                | 1                |             |
|                     | Diameter              | mm         | 450               | 450              | 450              | 450              |             |
|                     | Fan Speed             | rpm        | 933               | 933              | 933              | 933              |             |
|                     | Air Flow              | Total      | m <sup>3</sup> /h | 3483             | 3483             | 3483             | 3483        |
|                     | Total Fan Motor Power | Input      | W                 | 116              | 116              | 116              | 116         |
| Others              | Oil Separator         | Volume     | Liters            | 0.5              | 0.5              | 0.5              | 0.5         |
|                     | Receiver Volume       | R22        | kg                | 5.1              | 5.1              | 5.1              | 5.1         |
|                     |                       | R404A      | kg                | 4.4              | 4.4              | 4.4              | 4.4         |
|                     |                       | R407F      | kg                | 4.5              | 4.5              | 4.5              | 4.5         |
|                     | Pipes                 | Suction OD | Inch              | 3/4              | 3/4              | 3/4              | 3/4         |
|                     |                       | Liquid OD  | Inch              | 1/2              | 1/2              | 1/2              | 1/2         |
|                     | Dimension             | W x D x H  | mm                | 1029 x 424 x 840 |                  |                  |             |
| Weight              | Net                   | kg         | 76                | 79               | 79               | 100              |             |
|                     | Gross                 | kg         | 114               | 117              | 117              | 138              |             |

# ZX Family: Medium Temperature

## Technical Data at 50 Hz - TFD/TF5

| Family              |                       |            |                   | ZX               |             |             |                   |             |             |             |             |
|---------------------|-----------------------|------------|-------------------|------------------|-------------|-------------|-------------------|-------------|-------------|-------------|-------------|
| Nominal Rating      | Horsepower            | HP         |                   | 2                | 3           | 4           | 5                 | 6           | 7.5         | 7.6         |             |
| Model Name          |                       |            |                   | ZX0200           | ZX0300      | ZX0400      | ZX0500            | ZX0600      | ZX0750      | ZX0760      |             |
|                     |                       |            |                   | ZX020E           | ZX030E      | ZX040E      | ZX050E            | ZX060E      | ZX075E      | ZX076E      |             |
| Performance         | R22                   | ET/AT/RGT  | °C                | -7/32/18         |             |             |                   |             |             |             |             |
|                     |                       | Capacity   | kW                | 3.85             | 5.53        | 7.57        | 9.30              | 11.20       | 12.60       | 12.85       |             |
|                     |                       | COP        | W/W               | 2.41             | 2.64        | 2.54        | 2.66              | 2.60        | 2.57        | 2.65        |             |
|                     | R404A                 | ET/AT/RGT  | °C                | -7/32/18         |             |             |                   |             |             |             |             |
|                     |                       | Capacity   | kW                | 4.30             | 6.00        | 7.80        | 10.70             | 11.80       | 13.20       | 13.46       |             |
|                     |                       | COP        | W/W               | 2.26             | 2.35        | 2.29        | 2.40              | 2.41        | 2.40        | 2.50        |             |
|                     | R407F                 | ET/AT/RGT  | °C                | -7/32/18         |             |             |                   |             |             |             |             |
|                     |                       | Capacity   | kW                | 4.40             | 6.31        | 8.37        | 10.49             | 11.68       | 12.73       | 12.98       |             |
|                     |                       | COP        | W/W               | 2.32             | 2.38        | 2.38        | 2.44              | 2.56        | 2.56        | 2.55        |             |
|                     | Sound Pressure Level  | @1m        | dB(A)             | 60               |             |             |                   |             |             |             |             |
|                     | Compressor            | Model Name | R22               |                  | ZX15KC-TFD  | ZX21KC-TFD  | ZX30KC-TFD        | ZX38KC-TFD  | ZX45KC-TFD  | ZX51KC-TFD  | ZX51KC-TFD  |
|                     |                       |            | R404A             |                  | ZX15KCE-TFD | ZX21KCE-TFD | ZX30KCE-TFD       | ZX38KCE-TFD | ZX45KCE-TFD | ZX51KCE-TFD | ZX51KCE-TFD |
| R407F               |                       |            |                   | ZX15KCE-TFD      | ZX21KCE-TFD | ZX30KCE-TFD | ZX38KCE-TFD       | ZX45KCE-TFD | ZX51KCE-TFD | ZX51KCE-TFD |             |
| Rated Load Ampere   |                       | R22        | Amp               | 4.3              | 5.7         | 7.4         | 8.9               | 11.5        | 12.0        | 12.0        |             |
|                     |                       | R404A      | Amp               | 5.0              | 6.1         | 7.5         | 9.6               | 11.5        | 11.8        | 11.8        |             |
|                     |                       | R407F      | Amp               | 5.0              | 6.1         | 7.5         | 9.6               | 11.5        | 11.8        | 11.8        |             |
| Locked Rotor Ampere |                       | R22        | Amp               | 26.0             | 36.0        | 44.3        | 58.6              | 67.0        | 101.0       | 101.0       |             |
|                     |                       | R404A      | Amp               | 26.0             | 36.0        | 44.3        | 58.6              | 67.0        | 101.0       | 101.0       |             |
|                     |                       | R407F      | Amp               | 26.0             | 36.0        | 44.3        | 58.6              | 67.0        | 101.0       | 101.0       |             |
| Oil Type            |                       | R22        |                   | MINERAL          |             |             |                   |             |             |             |             |
|                     | R404A                 |            | POE               |                  |             |             |                   |             |             |             |             |
|                     | R407F                 |            | POE               |                  |             |             |                   |             |             |             |             |
| Oil Recharge Volume | R22/R404A/ R407F      |            | 1.18              | 1.33             | 1.83        | 1.83        | 1.66              | 1.66        | 1.66        |             |             |
| Fan Motor           | Number of Fan         | Pieces     | 1                 | 1                | 1           | 2           | 2                 | 2           | 2           |             |             |
|                     | Diameter              | mm         | 450               | 450              | 450         | 450         | 450               | 450         | 450         |             |             |
|                     | Fan Speed             | rpm        | 830               | 830              | 830         | 830         | 830               | 830         | 830         |             |             |
|                     | Air Flow              | Total      | m <sup>3</sup> /h | 2922             | 2922        | 2922        | 5910              | 5910        | 5910        | 5910        |             |
|                     | Total Fan Motor Power | Input      | W                 | 116              | 116         | 116         | 246               | 246         | 246         | 246         |             |
| Others              | Oil Separator         | Volume     | Liters            | 0.5              | 0.5         | 0.5         | 0.5               | 0.5         | 0.5         | 0.5         |             |
|                     | Receiver Volume       | R22        | kg                | 5.1              | 5.1         | 5.1         | 7.2               | 7.2         | 7.2         | 7.2         |             |
|                     |                       | R404A      | kg                | 4.4              | 4.4         | 4.4         | 6.3               | 6.3         | 6.3         | 6.3         |             |
|                     |                       | R407F      | kg                | 4.5              | 4.5         | 4.5         | 6.4               | 6.4         | 6.4         | 6.4         |             |
|                     | Pipes                 | Suction OD | Inch              | 3/4              | 3/4         | 7/8         | 7/8               | 7/8         | 7/8         | 7/8         |             |
|                     |                       | Liquid OD  | Inch              | 1/2              | 1/2         | 1/2         | 1/2               | 1/2         | 1/2         | 1/2         |             |
|                     | Dimension             | W x D x H  | mm                | 1029 x 424 x 840 |             |             | 1029 x 424 x 1242 |             |             |             |             |
| Weight              | Net                   | kg         | 76                | 79               | 100         | 108         | 112               | 118         | 121         |             |             |
|                     | Gross                 | kg         | 114               | 117              | 121         | 152         | 156               | 162         | 154         |             |             |

# ZX Family: Medium Temperature

## Technical Data at 60 Hz - TF5/TF7

| Family              |                       |            |                   | ZX               |                  |                  |                   |                  |              |
|---------------------|-----------------------|------------|-------------------|------------------|------------------|------------------|-------------------|------------------|--------------|
| Nominal Rating      | Horsepower            | HP         | 2                 | 3                | 4                | 5                | 6                 | 7.5              |              |
| Model Name          |                       |            | ZX0200<br>ZX020E  | ZX0300<br>ZX030E | ZX0400<br>ZX040E | ZX0500<br>ZX050E | ZX0600<br>ZX060E  | ZX0750<br>ZX075E |              |
| Performance         | R22                   | ET/AT/RGT  | °C                | -7/32/18         |                  |                  |                   |                  |              |
|                     |                       | Capacity   | kW                | 4.79             | 6.49             | 9.52             | 10.76             | 12.77            | 14.18        |
|                     |                       | COP        | W/W               | 2.42             | 2.37             | 2.56             | 2.51              | 2.45             | 2.37         |
|                     | R404A                 | ET/AT/RGT  | °C                | -7/32/18         |                  |                  |                   |                  |              |
|                     |                       | Capacity   | kW                | 5.10             | 7.30             | 10.16            | 12.46             | 14.48            | 15.28        |
|                     |                       | COP        | W/W               | 2.37             | 2.27             | 2.48             | 2.43              | 2.42             | 2.22         |
|                     | R407F                 | ET/AT/RGT  | °C                | -7/32/18         |                  |                  |                   |                  |              |
|                     |                       | Capacity   | kW                | 5.44             | 7.79             | 10.34            | 12.95             | 14.42            | 15.72        |
|                     |                       | COP        | W/W               | 2.29             | 2.35             | 2.35             | 2.41              | 2.53             | 2.52         |
|                     | Sound Pressure Level  | @1m        | dB(A)             | 60               |                  |                  |                   |                  |              |
| Compressor          | Model Name            | R22        |                   | ZX15KC-TF5/7     | ZX21KC-TF5/7     | ZX29KC-TF5/7     | ZX38KC-TF5/7      | ZX45KC-TF5/7     | ZX51KC-TF5/7 |
|                     |                       | R404A      |                   | ZX15KC-TF5/7     | ZX21KC-TF5/7     | ZX29KC-TF5/7     | ZX38KC-TF5/7      | ZX45KC-TF5/7     | ZX51KC-TF5/7 |
|                     |                       | R407F      |                   | ZX15KC-TF5/7     | ZX21KC-TF5/7     | ZX29KC-TF5/7     | ZX38KC-TF5/7      | ZX45KC-TF5/7     | ZX51KC-TF5/7 |
|                     | Rated Load Ampere     | R22        | Amp               | 8.9/5.0          | 11.4/7.5         | 15.0/9.3         | 20.7/10.7         | 20.7/10.7        | 25.0/12.1    |
|                     |                       | R404A      | Amp               | 8.9/5.1          | 12.1/7.4         | 15.7/9.6         | 24.0/12.4         | 23.1/12.6        | 26.0/14.1    |
|                     |                       | R407F      | Amp               | 8.9/5.1          | 12.1/7.4         | 15.7/9.6         | 24.0/12.4         | 23.1/12.6        | 26.0/14.1    |
|                     | Locked Rotor Ampere   | R22        | Amp               | 55.0/27.0        | 77.0/39.0        | 115.0/54.0       | 128.0/64.0        | 156.0/70.0       | 164.0/100.0  |
|                     |                       | R404A      | Amp               | 55.0/27.0        | 77.0/39.0        | 115.0/54.0       | 128.0/64.0        | 156.0/70.0       | 164.0/100.0  |
|                     |                       | R407F      | Amp               | 55.0/27.0        | 77.0/39.0        | 115.0/54.0       | 128.0/64.0        | 156.0/70.0       | 164.0/100.0  |
|                     | Oil Type              | R22        |                   | MINERAL          |                  |                  |                   |                  |              |
| R404A               |                       |            | POE               |                  |                  |                  |                   |                  |              |
| R407F               |                       |            | POE               |                  |                  |                  |                   |                  |              |
| Oil Recharge Volume | R22/R404A/R407F       | Liters     | 1.18              | 1.33             | 1.83             | 1.83             | 1.66              | 1.66             |              |
| Fan Motor           | Number of Fan         | Pieces     | 1                 | 1                | 2                | 2                | 2                 | 2                |              |
|                     | Diameter              | mm         | 450               | 450              | 450              | 450              | 450               | 450              |              |
|                     | Fan Speed             | rpm        | 933               | 933              | 933              | 933              | 933               | 933              |              |
|                     | Air Flow              | Total      | m <sup>3</sup> /h | 3483             | 3483             | 6966             | 6966              | 6966             | 6966         |
|                     | Total Fan Motor Power | Input      | W                 | 145              | 145              | 290              | 290               | 290              | 290          |
| Others              | Oil Separator         | Volume     | Liters            | 0.5              | 0.5              | 0.5              | 0.5               | 0.5              | 0.5          |
|                     | Receiver Volume       | R22        | kg                | 5.1              | 5.1              | 7.2              | 7.2               | 7.2              | 7.2          |
|                     |                       | R404A      | kg                | 4.4              | 4.4              | 6.3              | 6.3               | 6.3              | 6.3          |
|                     |                       | R407F      | kg                | 4.5              | 4.5              | 6.4              | 6.4               | 6.4              | 6.4          |
|                     | Pipes                 | Suction OD | Inch              | 3/4              | 3/4              | 3/4              | 3/4               | 3/4              | 3/4          |
|                     |                       | Liquid OD  | Inch              | 1/2              | 1/2              | 1/2              | 1/2               | 1/2              | 1/2          |
|                     | Dimension             | W x D x H  | mm                | 1029 x 424 x 840 |                  |                  | 1029 x 424 x 1242 |                  |              |
| Weight              | Net                   | kg         | 76                | 79               | 100              | 108              | 112               | 121              |              |
|                     | Gross                 | kg         | 114               | 117              | 135              | 152              | 156               | 162              |              |



# ZXB Family: Medium Temperature

## Technical Data at 50 Hz - TFD/TF5

| Family         |                      |            |                  | ZXB          |              |              |              |                   |              |              |     |  |
|----------------|----------------------|------------|------------------|--------------|--------------|--------------|--------------|-------------------|--------------|--------------|-----|--|
| Nominal Rating | Horsepower           | HP         | 1.5              | 2            | 2.5          | 3            | 3.5          | 4                 | 5            | 5.5          |     |  |
| Model Name     |                      |            | ZXB015E          | ZXB020E      | ZXB025E      | ZXB030E      | ZXB035E      | ZXB040E           | ZXB050E      | ZXB055E      |     |  |
| Power          | Phase                | Ph         | 3                | 3            | 3            | 3            | 3            | 3                 | 3            | 3            |     |  |
| Performance    | R134a                | ET/AT/RGT  | -7/32/18         |              |              |              |              |                   |              |              |     |  |
|                |                      | Capacity   | 3.20             | 3.76         | 3.92         | 4.96         | 6.61         | 7.23              | 8.52         | 9.38         |     |  |
|                |                      | COP        | 2.73             | 3.01         | 2.74         | 2.86         | 2.88         | 2.94              | 2.91         | 2.65         |     |  |
|                | Sound Pressure Level | @1m        | 60               | 60           | 60           | 61           | 61           | 61                | 61           | 61           |     |  |
| Compressor     | Model Name           | R134a      | ZXI06KCE-TFD     | ZXI08KCE-TFD | ZXI09KCE-TFD | ZXI11KCE-TFD | ZXI14KCE-TFD | ZXI15KCE-TFD      | ZXI18KCE-TFD | ZXI21KCE-TFD |     |  |
|                | Rated Load Ampere    | R134a      | 5.0              | 5.6          | 5.6          | 7.1          | 7.1          | 7.9               | 10.0         | 12.1         |     |  |
|                | Locked Rotor Ampere  | R134a      | 39.2             | 39.2         | 39.2         | 51.5         | 51.5         | 51.5              | 74.0         | 101.0        |     |  |
|                | Oil Type             | R134a      | POE              |              |              |              |              |                   |              |              |     |  |
|                | Oil Recharge Volume  | R134a      | 0.56             | 0.56         | 0.56         | 1.24         | 1.24         | 1.24              | 1.77         | 1.77         |     |  |
|                | Oil Initial Volume   | R134a      | 0.74             | 0.74         | 0.74         | 1.36         | 1.36         | 1.36              | 1.89         | 1.89         |     |  |
| Fan Motor      | Number of Fan        | Pieces     | 1                | 1            | 1            | 1            | 1            | 2                 | 2            | 2            |     |  |
|                | Diameter             | mm         | 450              | 450          | 450          | 450          | 450          | 450               | 450          | 450          |     |  |
|                | Fan Speed            | rpm        | 830              | 830          | 830          | 830          | 830          | 830               | 830          | 830          |     |  |
|                | Air Flow             | Total      | 2922             | 2922         | 2922         | 2922         | 2922         | 5910              | 5910         | 5910         |     |  |
|                | Fan Motor Power      | Input      | 116              | 116          | 116          | 116          | 116          | 246               | 246          | 246          |     |  |
| Others         | Oil Separator        | Volume     | 0.5              | 0.5          | 0.5          | 0.5          | 0.5          | 0.5               | 0.5          | 0.5          |     |  |
|                | Receiver Volume      | R134a      | 5.1              | 5.1          | 5.1          | 5.1          | 5.1          | 7.2               | 7.2          | 7.2          |     |  |
|                | Pipes                | Suction OD | in               | 3/4          | 3/4          | 3/4          | 7/8          | 7/8               | 7/8          | 7/8          | 7/8 |  |
|                |                      | Liquid OD  | in               | 1/2          | 1/2          | 1/2          | 1/2          | 1/2               | 1/2          | 1/2          | 1/2 |  |
|                | Dimension            | W x D x H  | 1029 x 424 x 840 |              |              |              |              | 1029 x 424 x 1242 |              |              |     |  |
|                | Weight               | Net        | kg               | 79           | 81           | 81           | 93           | 93                | 106          | 116          | 121 |  |
| Gross          |                      | kg         | 117              | 119          | 119          | 131          | 131          | 150               | 160          | 165          |     |  |

# ZXB Family: Medium Temperature

## Technical Data at 60 Hz - TF5/TF7

| Family         |                      |            | ZXB               |                  |                |                |                |                   |                |                |      |
|----------------|----------------------|------------|-------------------|------------------|----------------|----------------|----------------|-------------------|----------------|----------------|------|
| Nominal Rating | Horsepower           | HP         | 1.5               | 2                | 2.5            | 3              | 3.5            | 4                 | 5              | 5.5            |      |
| Model Name     |                      |            | ZXB015E           | ZXB020E          | ZXB025E        | ZXB030E        | ZXB035E        | ZXB040E           | ZXB050E        | ZXB055E        |      |
| Power          | Phase                | Ph         | 3                 | 3                | 3              | 3              | 3              | 3                 | 3              | 3              |      |
| Performance    | R134a                | ET/AT/RGT  | -7/32/18          |                  |                |                |                |                   |                |                |      |
|                |                      | Capacity   | 3.86              | 4.53             | 4.91           | 5.99           | 7.97           | 8.72              | 10.27          | 11.30          |      |
|                |                      | COP        | 2.73              | 3.09             | 2.80           | 2.86           | 2.88           | 2.97              | 2.90           | 2.66           |      |
|                | Sound Pressure Level | @1m        | 60                | 60               | 60             | 61             | 61             | 61                | 61             | 61             |      |
| Compressor     | Model Name           | R134a      | ZXI06KCE-TF5/7    | ZXI08KCE-TF5/7   | ZXI09KCE-TF5/7 | ZXI11KCE-TF5/7 | ZXI14KCE-TF5/7 | ZXI15KCE-TF5/7    | ZXI18KCE-TF5/7 | ZXI21KCE-TF5/7 |      |
|                | Rated Load Ampere    | R134a      | 11.4/5.1          | 11.8/5.2         | 12.1/6.5       | 18.0/7.2       | 18.8/9.3       | 20.1/11.8         | 24.0/13.3      | 27.2/13.5      |      |
|                | Locked Rotor Ampere  | R134a      | 73.0/34.8         | 73.0/34.8        | 73.0/38.6      | 110.0/47.0     | 110.0/66.0     | 110.0/73.5        | 186.6/94.3     | 191.0/94.3     |      |
|                | Oil Type             | R134a      | POE               |                  |                |                |                |                   |                |                |      |
|                | Oil Recharge Volume  | R134a      | 0.56              | 0.56             | 0.56           | 1.24           | 1.24           | 1.24              | 1.77           | 1.77           |      |
|                | Oil Initial Volume   | R134a      | 0.74              | 0.74             | 0.74           | 1.36           | 1.36           | 1.36              | 1.89           | 1.89           |      |
| Fan Motor      | Number of Fan        | Pieces     | 1                 | 1                | 1              | 1              | 2              | 2                 | 2              | 2              |      |
|                | Diameter             | mm         | 450               | 450              | 450            | 450            | 450            | 450               | 450            | 450            |      |
|                | Fan Speed            | rpm        | 933               | 933              | 933            | 933            | 933            | 933               | 933            | 933            |      |
|                | Air Flow             | Total      | m <sup>3</sup> /h | 3483             | 3483           | 3483           | 3483           | 6966              | 6966           | 6966           | 6966 |
|                | Fan Motor Power      | Input      | W                 | 145              | 145            | 145            | 145            | 290               | 290            | 290            | 290  |
| Others         | Oil Separator        | Volume     | Liters            | 0.5              | 0.5            | 0.5            | 0.5            | 0.5               | 0.5            | 0.5            |      |
|                | Receiver Volume      | R134a      | kg                | 5.1              | 5.1            | 5.1            | 5.1            | 7.2               | 7.2            | 7.2            |      |
|                | Pipes                | Suction OD | in                | 3/4              | 3/4            | 3/4            | 7/8            | 7/8               | 7/8            | 7/8            | 7/8  |
|                |                      | Liquid OD  | in                | 1/2              | 1/2            | 1/2            | 1/2            | 1/2               | 1/2            | 1/2            | 1/2  |
|                | Dimension            | W x D x H  | mm                | 1029 x 424 x 840 |                |                |                | 1029 x 424 x 1242 |                |                |      |
|                | Weight               | Net        | kg                | 79               | 81             | 81             | 93             | 93                | 106            | 116            | 121  |
| Gross          |                      | kg         | 117               | 119              | 119            | 131            | 131            | 150               | 160            | 165            |      |

# ZXD Family: Digital Medium Temperature

## Technical Data at 50 Hz - TFD/TF5

| Family              |                       |            |                   | ZXD               |              |              |              |              |
|---------------------|-----------------------|------------|-------------------|-------------------|--------------|--------------|--------------|--------------|
| Nominal Rating      | Horsepower            | HP         | 4                 | 5                 | 6            | 7.5          | 7.6          |              |
| Model Name          |                       |            | ZXD0400           | ZXD0500           | ZXD0600      | ZXD0750      | ZXD0760      |              |
|                     |                       |            | ZXD040E           | ZXD050E           | ZXD060E      | ZXD075E      | ZXD076E      |              |
| Performance         | R22                   | ET/AT/RGT  | °C                | -7/32/18          |              |              |              |              |
|                     |                       | Capacity   | kW                | 7.76              | 9.30         | 11.00        | 12.84        | 13.09        |
|                     |                       | COP        | W/W               | 2.67              | 2.65         | 2.64         | 2.53         | 2.67         |
|                     | R404A                 | ET/AT/RGT  | °C                | -7/32/18          |              |              |              |              |
|                     |                       | Capacity   | kW                | 8.30              | 10.70        | 11.80        | 13.20        | 13.46        |
|                     |                       | COP        | W/W               | 2.47              | 2.43         | 2.41         | 2.43         | 2.49         |
|                     | R407F                 | ET/AT/RGT  | °C                | -7/32/18          |              |              |              |              |
|                     |                       | Capacity   | kW                | 8.28              | 10.34        | 11.26        | 13.63        | 13.90        |
|                     |                       | COP        | W/W               | 2.71              | 2.73         | 2.46         | 2.40         | 2.50         |
|                     | Sound Pressure Level  | @1m        | dB(A)             | 60                |              |              |              |              |
| Compressor          | Model Name            | R22        |                   | ZBD29KQ-TFD       | ZBD38KQ-TFD  | ZBD45KQ-TFD  | ZBD48KQ-TFD  | ZBD48KQ-TFD  |
|                     |                       | R404A      |                   | ZBD29KQE-TFD      | ZBD38KQE-TFD | ZBD45KQE-TFD | ZBD48KQE-TFD | ZBD48KQE-TFD |
|                     |                       | R407F      |                   | ZBD29KQE-TFD      | ZBD38KQE-TFD | ZBD45KQE-TFD | ZBD45KQE-TFD | ZBD48KQE-TFD |
|                     | Rated Load Ampere     | R22        | Amp               | 7.9               | 10.0         | 10.0         | 12.1         | 12.1         |
|                     |                       | R404A      | Amp               | 7.7               | 10.4         | 9.6          | 12.4         | 12.4         |
|                     |                       | R407F      | Amp               | 7.9               | 10.0         | 10.0         | 12.1         | 12.1         |
|                     | Locked Rotor Ampere   | R22        | Amp               | 48.0              | 64.0         | 74.0         | 100.0        | 100.0        |
|                     |                       | R404A      | Amp               | 48.0              | 64.0         | 74.0         | 100.0        | 100.0        |
|                     |                       | R407F      | Amp               | 48.0              | 64.0         | 74.0         | 100.0        | 100.0        |
|                     | Oil Type              | R22        |                   | MINERAL           |              |              |              |              |
| R404A               |                       |            | POE               |                   |              |              |              |              |
| R407F               |                       |            | POE               |                   |              |              |              |              |
| Oil Recharge Volume | R22/R404A/ R407F      | Liters     | 1.24              | 1.77              | 1.77         | 1.77         | 1.77         |              |
| Fan Motor           | Number of Fan         |            | Pieces            | 2                 | 2            | 2            | 2            | 2            |
|                     | Diameter              |            | mm                | 450               | 450          | 450          | 450          | 450          |
|                     | Fan Speed             |            | rpm               | 830               | 830          | 830          | 830          | 830          |
|                     | Air Flow              | Total      | m <sup>3</sup> /h | 5910              | 5910         | 5910         | 5910         | 5910         |
|                     | Total Fan Motor Power | Input      | W                 | 246               | 246          | 246          | 246          | 246          |
| Others              | Oil Separator         | Volume     | Liters            | 0.5               | 0.5          | 0.5          | 0.5          | 0.5          |
|                     | Receiver Volume       | R22        | kg                | 7.2               | 7.2          | 7.2          | 7.2          | 7.2          |
|                     |                       | R404A      | kg                | 6.3               | 6.3          | 6.3          | 6.3          | 6.3          |
|                     |                       | R407F      | kg                | 6.4               | 6.4          | 6.4          | 6.4          | 6.4          |
|                     | Pipes                 | Suction OD | Inch              | 7/8               | 7/8          | 7/8          | 7/8          | 7/8          |
|                     |                       | Liquid OD  | Inch              | 1/2               | 1/2          | 1/2          | 1/2          | 1/2          |
|                     | Dimension             | W x D x H  | mm                | 1029 x 424 x 1242 |              |              |              |              |
| Weight              | Net                   | kg         | 104               | 112               | 114          | 119          | 122          |              |
|                     | Gross                 | kg         | 148               | 156               | 158          | 163          | 171          |              |

# ZXD Family: Digital Medium Temperature

## Technical Data at 60 Hz - TF7

| Family         |                       |             |                   | ZXD               |              |              |      |
|----------------|-----------------------|-------------|-------------------|-------------------|--------------|--------------|------|
| Nominal Rating | Horsepower            | HP          | 4                 | 5                 | 6            | 7.5          |      |
| Model Name     |                       |             | ZXD040E           | ZXD050E           | ZXD060E      | ZXD075E      |      |
| Performance    | R404A                 | ET/AT/RGT   | -10/32/18         |                   |              |              |      |
|                |                       | Capacity    | 8.70              | 10.77             | 12.54        | 13.84        |      |
|                |                       | COP         | 2.18              | 2.11              | 2.12         | 2.08         |      |
|                | R407F                 | ET/AT/RGT   | -10/32/18         |                   |              |              |      |
|                |                       | Capacity    | 8.06              | 9.98              | 11.53        | 14.46        |      |
|                |                       | COP         | 2.11              | 2.13              | 2.13         | 2.04         |      |
|                | Sound Pressure Level  | @1m         | 60                |                   |              |              |      |
| Compressor     | Model Name            | R404A       | ZBD29KQE-TF7      | ZBD38KQE-TF7      | ZBD45KQE-TF7 | ZBD48KQE-TF7 |      |
|                |                       | R407F       | ZBD29KQE-TF7      | ZBD38KQE-TF7      | ZBD45KQE-TF7 | ZBD45KQE-TF7 |      |
|                | Rated Load Ampere     | R404A       | Amp               | 9.6               | 11.6         | 12.9         | 14.6 |
|                |                       | R407F       | Amp               | 9.6               | 11.6         | 12.9         | 14.6 |
|                | Locked Rotor Ampere   | R404A       | Amp               | 54.0              | 64.0         | 70.0         | 78.0 |
|                |                       | R407F       | Amp               | 54.0              | 64.0         | 70.0         | 78.0 |
|                | Oil Type              | R404A       | POE               |                   |              |              |      |
|                |                       | R407F       | POE               |                   |              |              |      |
|                | Oil Recharge Volume   | R404A/R407F | Liters            | 1.24              | 1.77         | 1.77         | 1.77 |
| Fan Motor      | Number of Fan         |             | Pieces            | 2                 | 2            | 2            | 2    |
|                | Diameter              |             | mm                | 450               | 450          | 450          | 450  |
|                | Fan Speed             |             | rpm               | 933               | 933          | 933          | 933  |
|                | Air Flow              | Total       | m <sup>3</sup> /h | 6966              | 6966         | 6966         | 6966 |
|                | Total Fan Motor Power | Input       | W                 | 290               | 290          | 290          | 290  |
| Others         | Oil Separator         | Volume      | Liters            | 0.5               | 0.5          | 0.5          | 0.5  |
|                | Receiver Volume       | R404A       | kg                | 6.3               | 6.3          | 6.3          | 6.3  |
|                |                       | R407F       | kg                | 6.4               | 6.4          | 6.4          | 6.4  |
|                | Pipes                 | Suction OD  | Inch              | 7/8               | 7/8          | 7/8          | 7/8  |
|                |                       | Liquid OD   | Inch              | 1/2               | 1/2          | 1/2          | 1/2  |
|                | Dimension             | W x D x H   | mm                | 1029 x 424 x 1242 |              |              |      |
| Weight         | Net                   | kg          | 109               | 117               | 121          | 127          |      |
|                | Gross                 | kg          | 148               | 156               | 158          | 163          |      |

# ZXL Family: Low Temperature

## Technical Data at 50 Hz - TFD/TF5

| Family              |                       |               |                   | ZXL              |              |              |              |                   |              |              |              |
|---------------------|-----------------------|---------------|-------------------|------------------|--------------|--------------|--------------|-------------------|--------------|--------------|--------------|
| Nominal Rating      | Horsepower            | HP            | 2                 | 2.5              | 3            | 3.5          | 4            | 5                 | 6            | 7.5          |              |
| Model Name          |                       |               | ZXL0200           | ZXL0250          | ZXL0300      | ZXL0350      | ZXL0400      | ZXL0500           | ZXL0600      | ZXL0750      |              |
|                     |                       |               | ZXL020E           | ZXL025E          | ZXL030E      | ZXL035E      | ZXL040E      | ZXL050E           | ZXL060E      | ZXL075E      |              |
| Performance         | R22                   | ET/AT/RGT     | -32/32/5°C        |                  |              |              |              |                   |              |              |              |
|                     |                       | Capacity      | kW                | 1.72             | 1.91         | 2.34         | 2.78         | 3.57              | 4.05         | 4.96         | 5.39         |
|                     |                       | COP           | W/W               | 1.20             | 1.17         | 1.28         | 1.26         | 1.24              | 1.29         | 1.27         | 1.28         |
|                     | R404A                 | ET/AT/RGT     | -32/32/5°C        |                  |              |              |              |                   |              |              |              |
|                     |                       | Capacity      | kW                | 2.11             | 2.51         | 2.80         | 3.65         | 4.26              | 4.99         | 5.91         | 6.65         |
|                     |                       | COP           | W/W               | 1.24             | 1.28         | 1.29         | 1.34         | 1.29              | 1.36         | 1.33         | 1.38         |
|                     | R407F                 | ET/AT/RGT     | -32/32/5°C        |                  |              |              |              |                   |              |              |              |
|                     |                       | Capacity      | kW                | 1.86             | 2.29         | 2.60         | 3.61         | 4.25              | 4.61         | 5.66         | 6.25         |
|                     |                       | COP           | W/W               | 0.99             | 1.02         | 1.02         | 1.34         | 1.29              | 1.26         | 1.27         | 1.29         |
|                     | Sound Pressure Level  | @1m           | dB(A)             | 60               |              |              |              | 61                |              |              |              |
|                     | Compressor            | Model Name    | R22               | ZXI06KC-TFD      | ZXI08KC-TFD  | ZXI09KC-TFD  | ZXI11KC-TFD  | ZXI14KC-TFD       | ZXI15KC-TFD  | ZXI18KC-TFD  | ZXI21KC-TFD  |
|                     |                       |               | R404A             | ZXI06KCE-TFD     | ZXI08KCE-TFD | ZXI09KCE-TFD | ZXI11KCE-TFD | ZXI14KCE-TFD      | ZXI15KCE-TFD | ZXI18KCE-TFD | ZXI21KCE-TFD |
| R407F               |                       |               | ZXI06KCE-TFD      | ZXI08KCE-TFD     | ZXI09KCE-TFD | ZXI11KCE-TFD | ZXI14KCE-TFD | ZXI15KCE-TFD      | ZXI18KCE-TFD | ZXI21KCE-TFD |              |
| Rated Load Ampere   |                       | R22           | Amp               | 5.4              | 5.5          | 5.7          | 7.4          | 8.1               | 8.8          | 11.1         | 12.1         |
|                     |                       | R404A         | Amp               | 5.6              | 6.2          | 6.0          | 8.3          | 8.6               | 10.0         | 11.1         | 14.6         |
|                     |                       | R407F         | Amp               | 5.6              | 6.2          | 6.5          | 8.3          | 8.6               | 10.0         | 11.1         | 14.6         |
| Locked Rotor Ampere |                       | R22           | Amp               | 39.2             | 39.2         | 39.2         | 51.5         | 51.5              | 51.5         | 74.0         | 101.0        |
|                     |                       | R404A         | Amp               | 39.2             | 39.2         | 39.2         | 51.5         | 51.5              | 51.5         | 74.0         | 101.0        |
|                     |                       | R407F         | Amp               | 39.2             | 39.2         | 39.2         | 51.5         | 51.5              | 51.5         | 74.0         | 101.0        |
| Oil Type            |                       | R22           |                   | MINERAL          |              |              |              |                   |              |              |              |
|                     |                       | R404A         |                   | POE              |              |              |              |                   |              |              |              |
|                     |                       | R407F         |                   | POE              |              |              |              |                   |              |              |              |
| Oil Recharge Volume | R22/R404A/R407F       | Liters        | 0.56              | 0.56             | 0.56         | 1.24         | 1.24         | 1.24              | 1.77         | 1.77         |              |
| Fan Motor           | Number of Fan         | Pieces        | 1                 | 1                | 1            | 1            | 1            | 2                 | 2            | 2            |              |
|                     | Diameter              | mm            | 450               | 450              | 450          | 450          | 450          | 450               | 450          | 450          |              |
|                     | Fan Speed             | rpm           | 830               | 830              | 830          | 830          | 830          | 830               | 830          | 830          |              |
|                     | Air Flow              | Total         | m <sup>3</sup> /h | 2922             | 2922         | 2922         | 2922         | 2922              | 5910         | 5910         | 5910         |
|                     | Total Fan Motor Power | Input         | W                 | 116              | 116          | 116          | 116          | 116               | 246          | 246          | 246          |
|                     | Others                | Oil Separator | Volume            | Liters           | 0.5          | 0.5          | 0.5          | 0.5               | 0.5          | 0.5          | 0.5          |
| Receiver Volume     |                       | R22           | kg                | 5.1              | 5.1          | 5.1          | 5.1          | 5.1               | 7.2          | 7.2          | 7.2          |
|                     |                       | R404A         | kg                | 4.4              | 4.4          | 4.4          | 4.4          | 4.4               | 6.3          | 6.3          | 6.3          |
|                     |                       | R407F         | kg                | 4.5              | 4.5          | 4.5          | 4.5          | 4.5               | 6.4          | 6.4          | 6.4          |
| Pipes               |                       | Suction OD    | Inch              | 3/4              | 3/4          | 3/4          | 7/8          | 7/8               | 7/8          | 7/8          | 7/8          |
|                     |                       | Liquid OD     | Inch              | 1/2              | 1/2          | 1/2          | 1/2          | 1/2               | 1/2          | 1/2          | 1/2          |
| Dimension           |                       | W x D x H     | mm                | 1029 x 424 x 840 |              |              |              | 1029 x 424 x 1242 |              |              |              |
| Weight              |                       | Net           | kg                | 79               | 81           | 81           | 93           | 93                | 106          | 116          | 121          |
|                     | Gross                 | kg            | 117               | 119              | 119          | 131          | 131          | 150               | 165          | 170          |              |

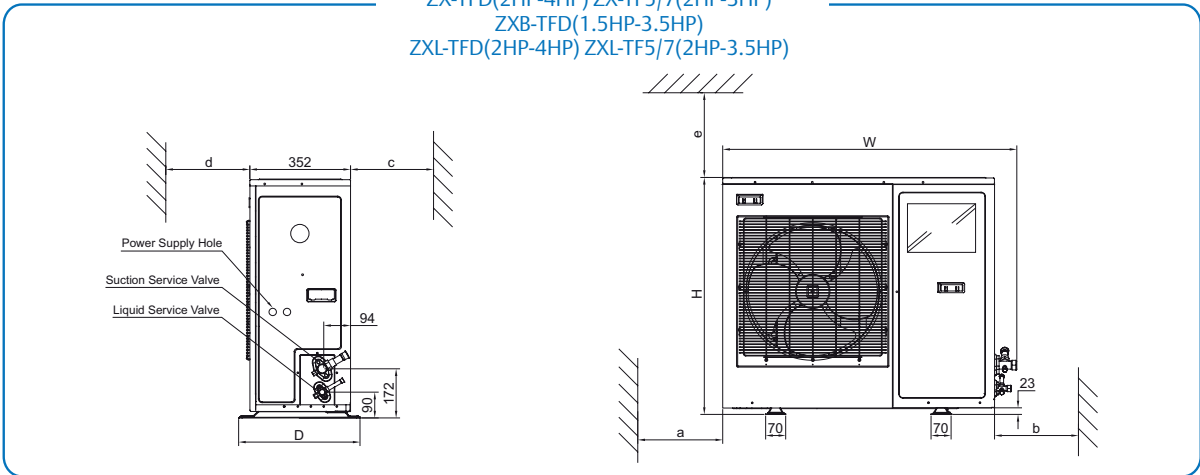
# ZXL Family: Low Temperature

## Technical Data at 60 Hz - TF5/TF7

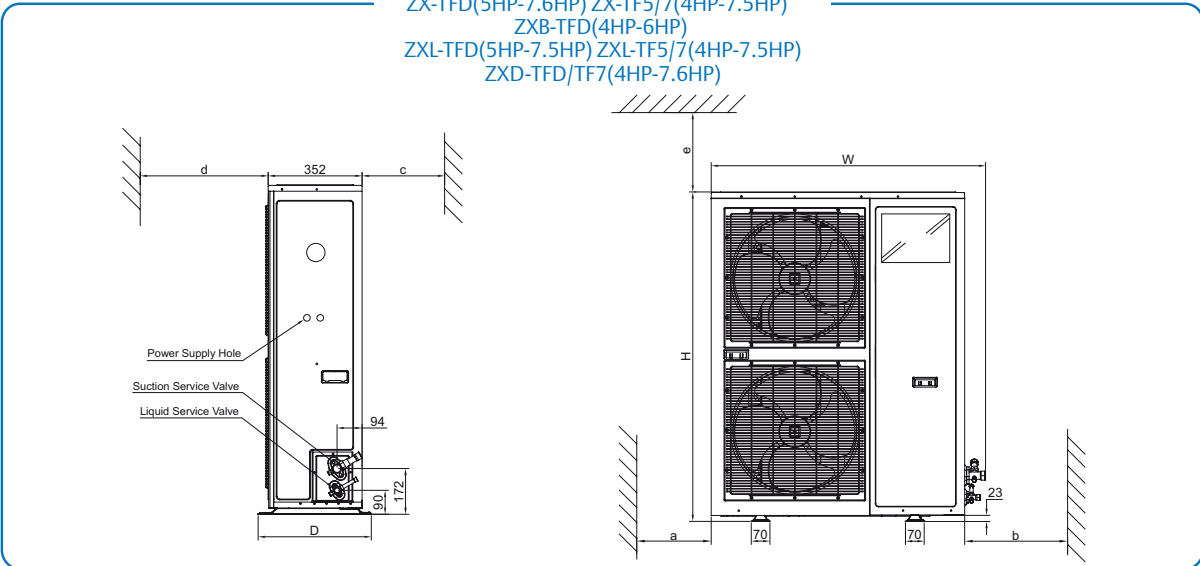
| Family              |                       |            | ZXL               |                  |                |                |                |                   |                |                |                |            |
|---------------------|-----------------------|------------|-------------------|------------------|----------------|----------------|----------------|-------------------|----------------|----------------|----------------|------------|
| Nominal Rating      | Horsepower            | HP         | 2                 | 2.5              | 3              | 3.5            | 4              | 5                 | 6              | 7.5            |                |            |
| Model Name          |                       |            | ZXL0200           | ZXL0250          | ZXL0300        | ZXL0350        | ZXL0400        | ZXL0500           | ZXL0600        | ZXL0750        |                |            |
|                     |                       |            | ZXL020E           | ZXL025E          | ZXL030E        | ZXL035E        | ZXL040E        | ZXL050E           | ZXL060E        | ZXL075E        |                |            |
| Performance         | R22                   | ET/AT/RGT  | -32/32/5°C        |                  |                |                |                |                   |                |                |                |            |
|                     |                       | Capacity   | 2.09              | 2.69             | 2.99           | 3.71           | 4.72           | 5.32              | 6.34           | 6.81           |                |            |
|                     |                       | COP        | 1.14              | 1.18             | 1.28           | 1.34           | 1.36           | 1.37              | 1.27           | 1.24           |                |            |
|                     | R404A                 | ET/AT/RGT  | -32/32/5°C        |                  |                |                |                |                   |                |                |                |            |
|                     |                       | Capacity   | 2.41              | 2.83             | 3.54           | 4.19           | 5.18           | 6.26              | 7.52           | 7.98           |                |            |
|                     |                       | COP        | 1.12              | 1.15             | 1.32           | 1.33           | 1.33           | 1.44              | 1.29           | 1.32           |                |            |
|                     | R407F                 | ET/AT/RGT  | -32/32/5°C        |                  |                |                |                |                   |                |                |                |            |
|                     |                       | Capacity   | 2.28              | 2.80             | 3.18           | 4.42           | 5.20           | 5.64              | 6.93           | 7.65           |                |            |
|                     |                       | COP        | 0.99              | 1.02             | 1.02           | 1.34           | 1.29           | 1.26              | 1.27           | 1.29           |                |            |
|                     | Sound Pressure Level  | @1m        | dB(A)             | 60               |                |                | 61             |                   |                |                |                |            |
|                     | Compressor            | Model Name | R22               | ZX106KCTF5/7     | ZX108KCTF5/7   | ZX109KCTF5/7   | ZX111KCTF5/7   | ZX114KCTF5/7      | ZX115KCTF5/7   | ZX118KCTF5/7   | ZX121KCTF5/7   |            |
|                     |                       |            | R404A             | ZX106KCE-TF5/7   | ZX108KCE-TF5/7 | ZX109KCE-TF5/7 | ZX111KCE-TF5/7 | ZX114KCE-TF5/7    | ZX115KCE-TF5/7 | ZX118KCE-TF5/7 | ZX121KCE-TF5/7 |            |
| R407F               |                       |            | ZX106KCE-TF5/7    | ZX108KCE-TF5/7   | ZX109KCE-TF5/7 | ZX111KCE-TF5/7 | ZX114KCE-TF5/7 | ZX115KCE-TF5/7    | ZX118KCE-TF5/7 | ZX121KCE-TF5/7 |                |            |
| Rated Load Ampere   |                       | R22        | Amp               | 12.1             | 12.6           | 12.9           | 19.1           | 20.0              | 21.4           | 25.5           | 28.9           |            |
|                     |                       | TF5        | R404A             | Amp              | 12.1           | 12.6           | 12.9           | 19.1              | 20.0           | 21.4           | 25.5           | 28.9       |
|                     |                       |            | R407F             | Amp              | 12.1           | 12.6           | 12.9           | 19.1              | 20.0           | 21.4           | 25.5           | 28.9       |
| Rated Load Ampere   |                       | R22        | Amp               | 5.4              | 5.5            | 6.9            | 7.7            | 9.9               | 12.6           | 14.1           | 14.4           |            |
|                     |                       | TF7        | R404A             | Amp              | 5.6            | 6.2            | 6.9            | 8.6               | 9.9            | 12.6           | 14.1           | 14.4       |
|                     |                       |            | R407F             | Amp              | 5.6            | 6.2            | 6.9            | 8.6               | 9.9            | 12.6           | 14.1           | 14.4       |
| Locked Rotor Ampere |                       | R22        | Amp               | 73.0/34.8        | 73.0/34.8      | 73.0/38.6      | 110.0/47.0     | 110.0/66.0        | 110.0/73.5     | 186.6/94.3     | 191.0/94.3     |            |
|                     |                       |            | R404A             | Amp              | 73.0/34.8      | 73.0/34.8      | 73.0/38.6      | 110.0/47.0        | 110.0/66.0     | 110.0/73.5     | 186.6/94.3     | 191.0/94.3 |
|                     |                       |            | R407F             | Amp              | 73.0/34.8      | 73.0/34.8      | 73.0/38.6      | 110.0/47.0        | 110.0/66.0     | 110.0/73.5     | 186.6/94.3     | 191.0/94.3 |
| Oil Type            |                       | R22        |                   | POE              |                |                |                |                   |                |                |                |            |
|                     |                       | R404A      |                   | POE              |                |                |                |                   |                |                |                |            |
|                     |                       | R407F      |                   | POE              |                |                |                |                   |                |                |                |            |
| Oil Recharge Volume | R22/R404A/R407F       | Liters     | 0.56              | 0.56             | 0.56           | 1.24           | 1.24           | 1.24              | 1.77           | 1.77           |                |            |
| Fan Motor           | Number of Fan         | Pieces     | 1                 | 1                | 1              | 1              | 2              | 2                 | 2              | 2              |                |            |
|                     | Diameter              | mm         | 450               | 450              | 450            | 450            | 450            | 450               | 450            | 450            |                |            |
|                     | Fan Speed             | rpm        | 933               | 933              | 933            | 933            | 933            | 933               | 933            | 933            |                |            |
|                     | Air Flow              | Total      | m <sup>3</sup> /h | 3483             | 3483           | 3483           | 3483           | 6966              | 6966           | 6966           | 6966           |            |
|                     | Total Fan Motor Power | Input      | W                 | 145              | 145            | 145            | 145            | 290               | 290            | 290            | 290            |            |
| Others              | Oil Separator         | Volume     | Liters            | 0.5              | 0.5            | 0.5            | 0.5            | 0.5               | 0.5            | 0.5            |                |            |
|                     | Receiver Volume       | R22        | kg                | 5.1              | 5.1            | 5.1            | 5.1            | 5.1               | 5.1            | 5.1            |                |            |
|                     |                       | R404A      | kg                | 4.4              | 4.4            | 4.4            | 4.4            | 4.4               | 4.4            | 4.4            |                |            |
|                     |                       | R407F      | kg                | 4.5              | 4.5            | 4.5            | 4.5            | 6.4               | 6.4            | 6.4            |                |            |
|                     | Pipes                 | Suction OD | Inch              | 3/4              | 3/4            | 3/4            | 7/8            | 7/8               | 7/8            | 7/8            | 7/8            |            |
|                     |                       | Liquid OD  | Inch              | 1/2              | 1/2            | 1/2            | 1/2            | 1/2               | 1/2            | 1/2            | 1/2            |            |
|                     | Dimension             | W x D x H  | mm                | 1029 x 424 x 840 |                |                |                | 1029 x 424 x 1242 |                |                |                |            |
| Weight              | Net                   | kg         | 79                | 81               | 81             | 93             | 93             | 106               | 116            | 121            |                |            |
|                     | Gross                 | kg         | 117               | 119              | 119            | 131            | 143            | 150               | 165            | 170            |                |            |

# Dimensional Drawings

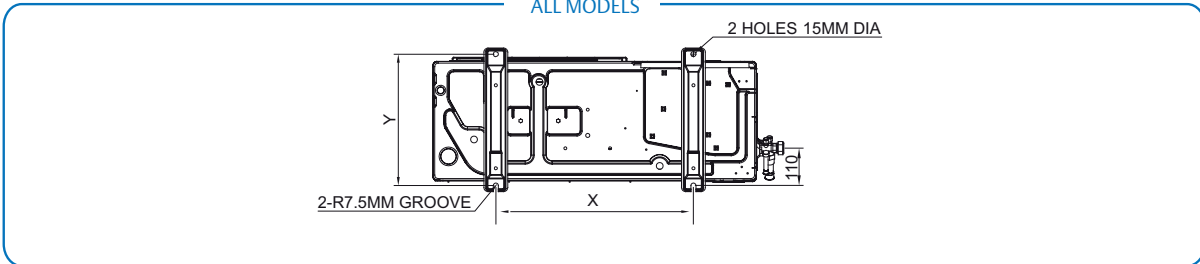
ZX-PFJ(2 HP-4 HP)  
 ZX-TFD(2HP-4HP) ZX-TF5/7(2HP-3HP)  
 ZXB-TFD(1.5HP-3.5HP)  
 ZXL-TFD(2HP-4HP) ZXL-TF5/7(2HP-3.5HP)



ZX-TFD(5HP-7.6HP) ZX-TF5/7(4HP-7.5HP)  
 ZXB-TFD(4HP-6HP)  
 ZXL-TFD(5HP-7.5HP) ZXL-TF5/7(4HP-7.5HP)  
 ZXD-TFD/TF7(4HP-7.6HP)



ALL MODELS



| Model  | Width | Height | Depth | Mtg | Centres | Conn. Size |         | Installation Clearances |     |     |     |     |
|--|-------|--------|-------|-----|---------|------------|---------|-------------------------|-----|-----|-----|-----|
|  | W     | H      | D     | X   | Y       | Suction*   | Liquid* | a                       | b   | c   | d   | e   |
|  | mm    | mm     | mm    | mm  | mm      | mm         | M.Fi.   | M.Fi.                   | mm  | mm  | mm  | mm  |
| ZX-PFJ(2 HP-4 HP)<br>ZX-TFD(2HP-4HP) ZX-TF5/7(2HP-3HP)<br>ZXB-TFD(1.5HP-3.5HP)<br>ZXL-TFD(2HP-4HP) ZXL-TF5/7(2HP-3.5HP)        | 1029  | 840    | 424   | 580 | 388     | 3/4"       | 1/2"    | 300                     | 500 | 300 | 500 | 500 |
| ZX-TFD(5HP-7.6HP) ZX-TF5/7(4HP-7.5HP)<br>ZXB-TFD(4HP-6HP)<br>ZXL-TFD(5HP-7.5HP) ZXL-TF5/7(4HP-7.5HP)<br>ZXD-TFD/TF7(4HP-7.6HP) | 1029  | 1242   | 424   | 580 | 388     | 7/8"       | 1/2"    | 300                     | 500 | 300 | 500 | 500 |

## Packing Information

| Container Loading, ZX Platform Condensing Unit |                    |                 |            |      |              |
|--|--------------------|-----------------|------------|------|--------------|
| Family   | Model              | Motor Code      | Fan Type   | 20FT | 40FT/ 40FT H |
| ZX / ZXB                                       | ZXB015E            | TFD             | Single Fan | 40   | 80           |
|  | ZXB020E / ZX0200/E | PFJ/TFD/TF5/TF7 |            | 40   | 80           |
|  | ZXB025E / ZX0250/E | PFJ/TFD         |            | 40   | 80           |
|  | ZXB030E / ZX0300/E | PFJ/TFD/TF5/TF7 |            | 40   | 80           |
|  | ZXB035E            | TFD             |            | 40   | 80           |
|  | ZX0400/E           | PFJ             |            | 40   | 80           |
|  | ZXB040E / ZX0400/E | TFD/TF5/TF7     | Dual Fan   | 20   | 40           |
|  | ZXB050E / ZX0500/E | TFD/TF5/TF7     |            | 20   | 40           |
|  | ZXB055E            | TFD             |            | 20   | 40           |
|  | ZX0600/E           | TFD/TF5/TF7     |            | 20   | 40           |
| ZX0750/E                                       | TFD/TF5/TF7        | 20              |            | 40   |              |
| ZX0760/E                                       | TFD/TF5/TF7        | 20              | 40         |      |              |
| ZXD  | ZX0750/E           | TFD/TF7         | Dual Fan   | 20   | 40           |
|  | ZXD0500/E          | TFD/TF7         |            | 20   | 40           |
|  | ZXD0600/E          | TFD/TF7         |            | 20   | 40           |
|  | ZXD0750/E          | TFD/TF7         |            | 20   | 40           |
|  | ZXD0760/E          | TFD/TF7         |            | 20   | 40           |
| ZXL  | ZXL0200/E          | TFD/TF5/TF7     | Single Fan | 40   | 80           |
|  | ZXL0250/E          | TFD/TF5/TF7     |            | 40   | 80           |
|  | ZXL0300/E          | TFD/TF5/TF7     |            | 40   | 80           |
|  | ZXL0350/E          | TFD/TF5/TF7     |            | 40   | 80           |
|  | ZXL0400/E          | TFD             |            | 40   | 80           |
|  | ZXL0400/E          | TF5/TF7         | Dual Fan   | 20   | 40           |
|  | ZXL0500/E          | TFD/TF5/TF7     |            | 20   | 40           |
|  | ZXL0600/E          | TFD/TF5/TF7     |            | 20   | 40           |
|  | ZXL0750/E          | TFD/TF5/TF7     |            | 20   | 40           |

## Conversion Chart

| Units Conversion Chart                     |
|--|
| KCALH x 3.9683 = BTUH                      |
| WATTS x 3.413 = BTU/H                      |
| 1.80 x °C + 32 = °F                        |
| KILOGRAMS x 2.205 = POUNDS                 |
| MILLIMETERS x 0.0394 = INCHES              |
| CUBIC CENTIMETERS x 0.06102 = CUBIC INCHES |
| CUBIC METERS x 35.3147 = CUBIC FEET        |
| LITERS x 33.8181 = FLUID OUNCES            |
| KILOWATTS x 1.341 = HORSEPOWER             |
| BAR x 14.7 = PSI                           |



## PRESSURE TEMPERATURE CHART AT SEA LEVEL

Red (Bar) = Vacuum

Black (Bar) = Vapor

**Bold (Bar) = Liquid**

| °C    | R-134a | R22  | R404A<br>HP 62 | R407F<br>Vapor | R407F<br>Liquid | R407A<br>Vapor | R407A<br>Liquid | R407C<br>Vapor | R407C<br>Liquid | R408A | R410A | R502  | R507A<br>AZ50* | °F    |
|-------|--------|------|----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|-------|-------|-------|----------------|-------|
| -45.6 | 0.63   | 0.21 | 0.00           | -0.26          | 0.03            | 0.30           | 0.03            | 0.37           | 0.09            | 0.07  | 0.34  | -0.03 | 0.06           | -50.0 |
| -44.4 | 0.61   | 0.16 | 0.05           | -0.22          | 0.08            | 0.26           | 0.03            | 0.33           | 0.04            | 0.02  | 0.41  | 0.02  | 0.12           | -48.0 |
| -43.3 | 0.59   | 0.12 | 0.11           | -0.17          | 0.14            | 0.22           | 0.08            | 0.29           | 0.01            | 0.04  | 0.48  | 0.08  | 0.18           | -46.0 |
| -42.2 | 0.56   | 0.06 | 0.17           | -0.12          | 0.20            | 0.17           | 0.14            | 0.25           | 0.07            | 0.10  | 0.57  | 0.14  | 0.24           | -44.0 |
| -41.1 | 0.53   | 0.01 | 0.23           | -0.07          | 0.27            | 0.12           | 0.21            | 0.20           | 0.13            | 0.15  | 0.65  | 0.19  | 0.30           | -42.0 |
| -40.0 | 0.50   | 0.04 | 0.30           | -0.02          | 0.34            | 0.07           | 0.27            | 0.16           | 0.19            | 0.21  | 0.74  | 0.26  | 0.37           | -40.0 |
| -38.9 | 0.47   | 0.10 | 0.37           | 0.04           | 0.41            | 0.01           | 0.34            | 0.11           | 0.26            | 0.28  | 0.83  | 0.32  | 0.44           | -38.0 |
| -37.8 | 0.44   | 0.15 | 0.43           | 0.10           | 0.48            | 0.04           | 0.41            | 0.06           | 0.32            | 0.34  | 0.92  | 0.39  | 0.52           | -36.0 |
| -36.7 | 0.41   | 0.21 | 0.51           | 0.16           | 0.56            | 0.10           | 0.48            | 0.00           | 0.39            | 0.41  | 1.01  | 0.46  | 0.59           | -34.0 |
| -35.6 | 0.37   | 0.28 | 0.59           | 0.22           | 0.64            | 0.16           | 0.56            | 0.06           | 0.46            | 0.48  | 1.12  | 0.53  | 0.68           | -32.0 |
| -34.4 | 0.33   | 0.34 | 0.66           | 0.29           | 0.72            | 0.23           | 0.63            | 0.11           | 0.53            | 0.55  | 1.22  | 0.60  | 0.75           | -30.0 |
| -33.3 | 0.29   | 0.41 | 0.74           | 0.36           | 0.80            | 0.29           | 0.72            | 0.17           | 0.61            | 0.63  | 1.33  | 0.68  | 0.84           | -28.0 |
| -32.2 | 0.25   | 0.48 | 0.83           | 0.43           | 0.89            | 0.36           | 0.80            | 0.23           | 0.69            | 0.71  | 1.44  | 0.76  | 0.93           | -26.0 |
| -31.1 | 0.21   | 0.55 | 0.92           | 0.51           | 0.98            | 0.43           | 0.89            | 0.30           | 0.77            | 0.79  | 1.56  | 0.84  | 1.02           | -24.0 |
| -30.0 | 0.17   | 0.63 | 1.01           | 0.59           | 1.08            | 0.51           | 0.98            | 0.37           | 0.86            | 0.88  | 1.68  | 0.93  | 1.12           | -22.0 |
| -28.9 | 0.13   | 0.70 | 1.10           | 0.67           | 1.18            | 0.59           | 1.08            | 0.45           | 0.94            | 0.97  | 1.81  | 1.01  | 1.21           | -20.0 |
| -27.8 | 0.08   | 0.79 | 1.20           | 0.75           | 1.28            | 0.67           | 1.17            | 0.52           | 1.04            | 1.06  | 1.94  | 1.11  | 1.32           | -18.0 |
| -26.7 | 0.03   | 0.87 | 1.30           | 0.84           | 1.39            | 0.75           | 1.28            | 0.60           | 1.14            | 1.15  | 2.07  | 1.20  | 1.42           | -16.0 |
| -25.6 | 0.02   | 0.96 | 1.41           | 0.93           | 1.50            | 0.84           | 1.38            | 0.68           | 1.23            | 1.25  | 2.21  | 1.30  | 1.53           | -14.0 |
| -24.4 | 0.08   | 1.05 | 1.52           | 1.03           | 1.61            | 0.93           | 1.49            | 0.77           | 1.34            | 1.35  | 2.35  | 1.40  | 1.64           | -12.0 |
| -23.3 | 0.13   | 1.14 | 1.63           | 1.13           | 1.73            | 1.03           | 1.60            | 0.85           | 1.44            | 1.46  | 2.50  | 1.51  | 1.76           | -10.0 |
| -22.2 | 0.19   | 1.23 | 1.74           | 1.23           | 1.85            | 1.12           | 1.72            | 0.94           | 1.55            | 1.57  | 2.66  | 1.61  | 1.88           | -8.0  |
| -21.1 | 0.25   | 1.34 | 1.86           | 1.34           | 1.98            | 1.23           | 1.83            | 1.03           | 1.67            | 1.68  | 2.81  | 1.73  | 2.00           | -6.0  |
| -20.0 | 0.32   | 1.44 | 1.99           | 1.45           | 2.11            | 1.33           | 1.96            | 1.13           | 1.79            | 1.79  | 2.98  | 1.84  | 2.13           | -4.0  |
| -18.9 | 0.38   | 1.54 | 2.12           | 1.56           | 2.24            | 1.44           | 2.09            | 1.23           | 1.91            | 1.91  | 3.15  | 1.96  | 2.26           | -2.0  |
| -17.8 | 0.45   | 1.66 | 2.25           | 1.68           | 2.38            | 1.55           | 2.22            | 1.34           | 2.03            | 2.03  | 3.32  | 2.08  | 2.40           | 0.0   |
| -16.7 | 0.52   | 1.77 | 2.39           | 1.80           | 2.52            | 1.67           | 2.36            | 1.45           | 2.17            | 2.16  | 3.50  | 2.21  | 2.54           | 2.0   |
| -15.6 | 0.59   | 1.89 | 2.52           | 1.93           | 2.67            | 1.79           | 2.50            | 1.56           | 2.30            | 2.29  | 3.69  | 2.34  | 2.68           | 4.0   |
| -14.4 | 0.66   | 2.01 | 2.67           | 2.06           | 2.82            | 1.92           | 2.65            | 1.68           | 2.43            | 2.43  | 3.88  | 2.48  | 2.83           | 6.0   |
| -13.3 | 0.74   | 2.14 | 2.82           | 2.20           | 2.98            | 2.05           | 2.80            | 1.80           | 2.58            | 2.57  | 4.08  | 2.61  | 2.99           | 8.0   |
| -12.2 | 0.82   | 2.26 | 2.97           | 2.34           | 3.14            | 2.18           | 2.95            | 1.92           | 2.72            | 2.71  | 4.29  | 2.76  | 3.15           | 10.0  |
| -11.1 | 0.90   | 2.40 | 3.13           | 2.48           | 3.31            | 2.32           | 3.11            | 2.05           | 2.88            | 2.86  | 4.50  | 2.90  | 3.31           | 12.0  |
| -10.0 | 0.99   | 2.54 | 3.30           | 2.63           | 3.48            | 2.46           | 3.28            | 2.19           | 3.03            | 3.01  | 4.72  | 3.06  | 3.48           | 14.0  |
| -8.9  | 1.08   | 2.68 | 3.46           | 2.79           | 3.66            | 2.61           | 3.45            | 2.32           | 3.19            | 3.17  | 4.94  | 3.21  | 3.66           | 16.0  |
| -7.8  | 1.17   | 2.82 | 3.63           | 2.94           | 3.84            | 2.76           | 3.62            | 2.46           | 3.36            | 3.32  | 5.17  | 3.37  | 3.83           | 18.0  |
| -6.7  | 1.27   | 2.97 | 3.81           | 3.11           | 4.03            | 2.92           | 3.80            | 2.61           | 3.53            | 3.49  | 5.41  | 3.53  | 4.01           | 20.0  |
| -5.6  | 1.37   | 3.12 | 4.00           | 3.28           | 4.22            | 3.08           | 3.99            | 2.77           | 3.71            | 3.66  | 5.65  | 3.70  | 4.21           | 22.0  |
| -4.4  | 1.47   | 3.28 | 4.19           | 3.45           | 4.42            | 3.25           | 4.18            | 2.92           | 3.89            | 3.84  | 5.90  | 3.88  | 4.40           | 24.0  |
| -3.3  | 1.58   | 3.45 | 4.38           | 3.63           | 4.63            | 3.42           | 4.37            | 3.08           | 4.08            | 4.02  | 6.15  | 4.06  | 4.60           | 26.0  |
| -2.2  | 1.69   | 3.61 | 4.58           | 3.82           | 4.84            | 3.60           | 4.57            | 3.25           | 4.27            | 4.21  | 6.42  | 4.23  | 4.80           | 28.0  |
| -1.1  | 1.80   | 3.79 | 4.78           | 4.01           | 5.05            | 3.78           | 4.78            | 3.42           | 4.46            | 4.39  | 6.69  | 4.43  | 5.01           | 30.0  |
| 0.0   | 1.92   | 3.97 | 4.99           | 4.21           | 5.28            | 3.97           | 4.99            | 3.59           | 4.67            | 4.59  | 6.97  | 4.62  | 5.23           | 32.0  |
| 1.1   | 2.03   | 4.15 | 5.21           | 4.41           | 5.51            | 4.17           | 5.21            | 3.78           | 4.88            | 4.79  | 7.26  | 4.81  | 5.45           | 34.0  |
| 2.2   | 2.16   | 4.34 | 5.43           | 4.62           | 5.74            | 4.37           | 5.43            | 3.97           | 5.09            | 5.00  | 7.55  | 5.02  | 5.68           | 36.0  |
| 3.3   | 2.28   | 4.53 | 5.66           | 4.84           | 5.98            | 4.57           | 5.67            | 4.16           | 5.31            | 5.21  | 7.86  | 5.23  | 5.91           | 38.0  |
| 4.4   | 2.41   | 4.73 | 5.89           | 5.06           | 6.23            | 4.79           | 5.90            | 4.36           | 5.53            | 5.43  | 8.17  | 5.44  | 6.15           | 40.0  |
| 5.6   | 2.55   | 4.93 | 6.12           | 5.29           | 6.48            | 5.00           | 6.14            | 4.56           | 5.77            | 5.65  | 8.48  | 5.66  | 6.39           | 42.0  |
| 6.7   | 2.69   | 5.14 | 6.37           | 5.52           | 6.74            | 5.23           | 6.40            | 4.77           | 6.00            | 5.88  | 8.81  | 5.89  | 6.65           | 44.0  |
| 7.8   | 2.83   | 5.35 | 6.62           | 5.76           | 7.01            | 5.46           | 6.66            | 4.99           | 6.25            | 6.12  | 9.14  | 6.12  | 6.90           | 46.0  |
| 8.9   | 2.98   | 5.57 | 6.88           | 6.01           | 7.28            | 5.70           | 6.92            | 5.21           | 6.50            | 6.36  | 9.48  | 6.35  | 7.17           | 48.0  |

## PRESSURE TEMPERATURE CHART AT SEA LEVEL

Red(Bar)= Vacuum

Black(Bar)= Vapor

**Bold (Bar)=Liquid**

| °C   | R-134a | R22   | R404A<br>HP 62 | R407F<br>Vapor | R407F<br>Liquid | R407A<br>Vapor | R407A<br>Liquid | R407C<br>Vapor | R407C<br>Liquid | R408A | R410A | R502  | R507A<br>AZ50* | °F    |
|------|--------|-------|----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|-------|-------|-------|----------------|-------|
| 10.0 | 3.13   | 5.80  | 7.14           | 6.26           | 7.57            | 5.94           | 7.19            | 5.43           | 6.75            | 6.60  | 9.83  | 6.59  | 7.44           | 50.0  |
| 11.1 | 3.29   | 6.03  | <b>7.41</b>    | 6.52           | <b>7.85</b>     | 6.19           | <b>7.46</b>     | 5.67           | <b>7.01</b>     | 6.86  | 10.20 | 6.84  | 7.72           | 52.0  |
| 12.2 | 3.45   | 6.26  | <b>7.70</b>    | 6.79           | <b>8.15</b>     | 6.44           | <b>7.74</b>     | 5.91           | <b>7.28</b>     | 7.11  | 10.57 | 7.10  | 8.01           | 54.0  |
| 13.3 | 3.61   | 6.51  | <b>7.98</b>    | 7.07           | <b>8.45</b>     | 6.71           | <b>8.03</b>     | 6.16           | <b>7.56</b>     | 7.38  | 10.94 | 7.35  | 8.30           | 56.0  |
| 14.4 | 3.79   | 6.76  | <b>8.27</b>    | 7.35           | <b>8.76</b>     | 6.98           | <b>8.33</b>     | 6.41           | <b>7.84</b>     | 7.65  | 11.34 | 7.62  | 8.59           | 58.0  |
| 15.6 | 3.96   | 7.01  | <b>8.57</b>    | 7.64           | <b>9.08</b>     | 7.26           | <b>8.63</b>     | 6.68           | <b>8.13</b>     | 7.93  | 11.73 | 7.89  | 8.90           | 60.0  |
| 16.7 | 4.14   | 7.27  | <b>8.88</b>    | 7.94           | <b>9.40</b>     | 7.54           | <b>8.94</b>     | 6.94           | <b>8.43</b>     | 8.21  | 12.14 | 8.17  | 9.21           | 62.0  |
| 17.8 | 4.32   | 7.54  | <b>9.19</b>    | 8.24           | <b>9.74</b>     | 7.83           | <b>9.26</b>     | 7.22           | <b>8.74</b>     | 8.50  | 12.56 | 8.46  | 9.54           | 64.0  |
| 18.9 | 4.51   | 7.81  | <b>9.50</b>    | 8.55           | <b>10.08</b>    | 8.13           | <b>9.59</b>     | 7.50           | <b>9.05</b>     | 8.80  | 12.99 | 8.74  | 9.86           | 66.0  |
| 20.0 | 4.70   | 8.09  | <b>9.83</b>    | 8.88           | <b>10.43</b>    | 8.44           | <b>9.92</b>     | 7.79           | <b>9.37</b>     | 9.10  | 13.42 | 9.04  | 10.20          | 68.0  |
| 21.1 | 4.90   | 8.37  | <b>10.17</b>   | 9.20           | <b>10.78</b>    | 8.76           | <b>10.26</b>    | 8.09           | <b>9.69</b>     | 9.42  | 13.87 | 9.34  | 10.54          | 70.0  |
| 22.2 | 5.11   | 8.67  | <b>10.51</b>   | 9.54           | <b>11.15</b>    | 9.08           | <b>10.61</b>    | 8.39           | <b>10.03</b>    | 9.74  | 14.32 | 9.66  | 10.89          | 72.0  |
| 23.3 | 5.32   | 8.97  | <b>10.86</b>   | 9.89           | <b>11.52</b>    | 9.41           | <b>10.97</b>    | 8.70           | <b>10.37</b>    | 10.06 | 14.79 | 9.98  | 11.25          | 74.0  |
| 24.4 | 5.53   | 9.28  | <b>11.22</b>   | 10.24          | <b>11.90</b>    | 9.75           | <b>11.34</b>    | 9.03           | <b>10.72</b>    | 10.40 | 15.27 | 10.30 | 11.62          | 76.0  |
| 25.6 | 5.75   | 9.59  | <b>11.59</b>   | 10.60          | <b>12.29</b>    | 10.10          | <b>11.71</b>    | 9.35           | <b>11.07</b>    | 10.74 | 15.76 | 10.63 | 11.99          | 78.0  |
| 26.7 | 5.98   | 9.90  | <b>11.96</b>   | 10.98          | <b>12.69</b>    | 10.46          | <b>12.09</b>    | 9.69           | <b>11.43</b>    | 11.09 | 16.26 | 10.97 | 12.38          | 80.0  |
| 27.8 | 6.21   | 10.23 | <b>12.34</b>   | 11.36          | <b>13.10</b>    | 10.82          | <b>12.48</b>    | 10.03          | <b>11.81</b>    | 11.44 | 16.77 | 11.32 | 12.77          | 82.0  |
| 28.9 | 6.45   | 10.57 | <b>12.73</b>   | 11.75          | <b>13.52</b>    | 11.19          | <b>12.88</b>    | 10.39          | <b>12.19</b>    | 11.81 | 17.29 | 11.67 | 13.17          | 84.0  |
| 30.0 | 6.69   | 10.91 | <b>13.13</b>   | 12.15          | <b>13.94</b>    | 11.57          | <b>13.28</b>    | 10.75          | <b>12.58</b>    | 12.18 | 17.83 | 12.03 | 13.58          | 86.0  |
| 31.1 | 6.94   | 11.26 | <b>13.54</b>   | 12.55          | <b>14.38</b>    | 11.97          | <b>13.70</b>    | 11.12          | <b>12.98</b>    | 12.56 | 18.37 | 12.40 | 13.99          | 88.0  |
| 32.2 | 7.19   | 11.61 | <b>13.96</b>   | 12.97          | <b>14.82</b>    | 12.37          | <b>14.12</b>    | 11.50          | <b>13.39</b>    | 12.94 | 18.93 | 12.78 | 14.42          | 90.0  |
| 33.3 | 7.46   | 11.98 | <b>14.39</b>   | 13.40          | <b>15.27</b>    | 12.78          | <b>14.56</b>    | 11.88          | <b>13.80</b>    | 13.34 | 19.50 | 13.16 | 14.86          | 92.0  |
| 34.4 | 7.72   | 12.35 | <b>14.82</b>   | 13.84          | <b>15.74</b>    | 13.20          | <b>15.01</b>    | 12.28          | <b>14.23</b>    | 13.74 | 20.08 | 13.55 | 15.30          | 94.0  |
| 35.6 | 7.99   | 12.73 | <b>15.26</b>   | 14.29          | <b>16.21</b>    | 13.63          | <b>15.46</b>    | 12.69          | <b>14.66</b>    | 14.16 | 20.68 | 13.95 | 15.76          | 96.0  |
| 36.7 | 8.28   | 13.12 | <b>15.72</b>   | 14.74          | <b>16.69</b>    | 14.06          | <b>15.92</b>    | 13.10          | <b>15.10</b>    | 14.58 | 21.28 | 14.36 | 16.22          | 98.0  |
| 37.8 | 8.57   | 13.51 | <b>16.18</b>   | 15.21          | <b>17.19</b>    | 14.51          | <b>16.39</b>    | 13.52          | <b>15.55</b>    | 15.01 | 21.90 | 14.78 | 16.70          | 100.0 |
| 38.9 | 8.86   | 13.92 | <b>16.66</b>   | 15.69          | <b>17.69</b>    | 14.97          | <b>16.87</b>    | 13.96          | <b>16.01</b>    | 15.45 | 22.53 | 15.20 | 17.18          | 102.0 |
| 40.0 | 9.15   | 14.32 | <b>17.14</b>   | 16.18          | <b>18.20</b>    | 15.44          | <b>17.36</b>    | 14.41          | <b>16.48</b>    | 15.90 | 23.18 | 15.63 | 17.67          | 104.0 |
| 41.1 | 9.46   | 14.74 | <b>17.63</b>   | 16.68          | <b>18.72</b>    | 15.92          | <b>17.86</b>    | 14.86          | <b>16.96</b>    | 16.35 | 23.84 | 16.08 | 18.17          | 106.0 |
| 42.2 | 9.77   | 15.17 | <b>18.13</b>   | 17.19          | <b>19.26</b>    | 16.41          | <b>18.37</b>    | 15.32          | <b>17.45</b>    | 16.82 | 24.51 | 16.52 | 18.69          | 108.0 |
| 43.3 | 10.10  | 15.61 | <b>18.65</b>   | 17.71          | <b>19.80</b>    | 16.91          | <b>18.89</b>    | 15.79          | <b>17.95</b>    | 17.29 | 25.20 | 16.99 | 19.21          | 110.0 |
| 44.4 | 10.42  | 16.06 | <b>19.17</b>   | 18.25          | <b>20.36</b>    | 17.43          | <b>19.42</b>    | 16.28          | <b>18.46</b>    | 17.78 | 25.90 | 17.45 | 19.74          | 112.0 |
| 45.6 | 10.76  | 16.51 | <b>19.70</b>   | 18.79          | <b>20.92</b>    | 17.94          | <b>19.97</b>    | 16.78          | <b>18.97</b>    | 18.27 | 26.61 | 17.93 | 20.29          | 114.0 |
| 46.7 | 11.10  | 16.97 | <b>20.25</b>   | 19.35          | <b>21.50</b>    | 18.48          | <b>20.52</b>    | 17.28          | <b>19.50</b>    | 18.77 | 27.34 | 18.41 | 20.85          | 116.0 |
| 47.8 | 11.45  | 17.45 | <b>20.81</b>   | 19.92          | <b>22.09</b>    | 19.03          | <b>21.08</b>    | 17.80          | <b>20.04</b>    | 19.29 | 28.09 | 18.91 | 21.41          | 118.0 |
| 48.9 | 11.81  | 17.93 | <b>21.37</b>   | 20.50          | <b>22.69</b>    | 19.59          | <b>21.66</b>    | 18.33          | <b>20.59</b>    | 19.81 | 28.85 | 19.41 | 21.99          | 120.0 |
| 50.0 | 12.17  | 18.42 | <b>21.95</b>   | 21.10          | <b>23.30</b>    | 20.16          | <b>22.23</b>    | 18.87          | <b>21.15</b>    | 20.34 | 29.62 | 19.92 | 22.59          | 122.0 |
| 51.1 | 12.54  | 18.92 | <b>22.54</b>   | 21.71          | <b>23.92</b>    | 20.74          | <b>22.83</b>    | 19.42          | <b>21.72</b>    | 20.89 | 30.41 | 20.45 | 23.19          | 124.0 |
| 52.2 | 12.92  | 19.43 | <b>23.14</b>   | 22.33          | <b>24.55</b>    | 21.33          | <b>23.44</b>    | 19.99          | <b>22.30</b>    | 21.44 | 31.22 | 20.99 | 23.80          | 126.0 |
| 53.3 | 13.31  | 19.94 | <b>23.75</b>   | 22.96          | <b>25.20</b>    | 21.94          | <b>24.06</b>    | 20.56          | <b>22.90</b>    | 22.01 | 32.04 | 21.52 | 24.43          | 128.0 |
| 54.4 | 13.70  | 20.48 | <b>24.38</b>   | 23.61          | <b>25.86</b>    | 22.56          | <b>24.68</b>    | 21.14          | <b>23.50</b>    | 22.58 | 32.88 | 22.08 | 25.07          | 130.0 |
| 55.6 | 14.11  | 21.01 | <b>25.02</b>   | 24.27          | <b>26.53</b>    | 23.19          | <b>25.32</b>    | 21.75          | <b>24.12</b>    | 23.17 | 33.74 | 22.65 | 25.72          | 132.0 |
| 56.7 | 14.52  | 21.56 | <b>25.67</b>   | 24.94          | <b>27.21</b>    | 23.84          | <b>25.98</b>    | 22.36          | <b>24.74</b>    | 23.77 | 34.61 | 23.22 | 26.39          | 134.0 |
| 57.8 | 14.94  | 22.12 | <b>26.34</b>   | 25.63          | <b>27.90</b>    | 24.50          | <b>26.64</b>    | 22.99          | <b>25.38</b>    | 24.37 | 35.50 | 23.81 | 27.06          | 136.0 |
| 58.9 | 15.37  | 22.69 | <b>27.01</b>   | 26.34          | <b>28.61</b>    | 25.18          | <b>27.32</b>    | 23.63          | <b>26.03</b>    | 24.99 | 36.41 | 24.40 | 27.75          | 138.0 |
| 60.0 | 15.81  | 23.27 | <b>27.70</b>   | 27.06          | <b>29.33</b>    | 25.87          | <b>28.01</b>    | 24.28          | <b>26.69</b>    | 25.62 | 37.34 | 25.01 | 28.46          | 140.0 |
| 61.1 | 16.26  | 23.86 | <b>28.41</b>   | 27.79          | <b>30.07</b>    | 26.57          | <b>28.71</b>    | 24.94          | <b>27.36</b>    | 26.27 | 38.29 | 25.62 | 29.18          | 142.0 |
| 62.2 | 16.71  | 24.46 | <b>29.13</b>   | 28.54          | <b>30.81</b>    | 27.29          | <b>29.43</b>    | 25.63          | <b>28.04</b>    | 26.92 | 39.26 | 26.26 | 29.92          | 144.0 |
| 63.3 | 17.17  | 25.07 | <b>29.87</b>   | 29.31          | <b>31.57</b>    | 28.02          | <b>30.15</b>    | 26.32          | <b>28.74</b>    | 27.59 | 40.24 | 26.90 | 30.67          | 146.0 |
| 64.4 | 17.65  | 25.69 | <b>30.61</b>   | 30.09          | <b>32.35</b>    | 28.77          | <b>30.90</b>    | 27.03          | <b>29.45</b>    | 28.27 | 41.25 | 27.54 | 31.43          | 148.0 |
| 65.6 | 18.13  | 26.32 | <b>31.39</b>   | 30.89          | <b>33.13</b>    | 29.54          | <b>31.65</b>    | 27.76          | <b>30.17</b>    | 28.96 | 42.28 | 28.21 | 32.22          | 150.0 |

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