

# Copeland Scroll™

## ZX Condensing Unit for Refrigeration Applications



Product Catalogue

**COPELAND™**

  
**EMERSON™**

## ZX condensing unit for refrigeration applications



Emerson offers the ZX platform refrigeration condensing units specifically designed for medium temperature (ZX-MT & ZXB-MT), low temperature (ZXL-LT), digital modulated variable capacity medium temperature and low temperature (ZXD-MT & ZXLD-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.



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

**Intelligent Store Solutions** - 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 retailers:

- Make better decisions on resources investment for maximum impact
- Receive accurate feedback and service customized to meet your specific needs
- Reduce operational costs and boost the profitability

**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 compared to 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, overheating, incorrect phase rotation, compressor cycling, high pressure resets and low pressure cut-outs. It can also send out a warning message to the operator when there is liquid floodback, which can prevent critical damage to the unit.

Intelligent store



Better decision-making

Highest efficiency



Lower energy bills

Reliability



Lower maintenance cost

# Table of contents

|                                                           |    |
|-----------------------------------------------------------|----|
| Features and Benefits                                     | 04 |
| Nomenclature                                              | 05 |
| Bill of Material                                          | 05 |
| CoreSense™ for ZX Platform Condensing Unit                | 06 |
| Operating Envelopes                                       |    |
| ZX Family: Medium Temperature                             | 07 |
| ZXB Family: Medium Temperature                            | 07 |
| ZXD Family: Digital Medium Temperature                    | 07 |
| ZXL/ZXLD Family: Low Temperature                          | 08 |
| Performance Data                                          |    |
| ZX Family: Medium Temperature - R22                       | 09 |
| ZX Family: Medium Temperature - R404A                     | 11 |
| ZX Family: Medium Temperature - R407F                     | 13 |
| ZXB Family: Medium Temperature - R134a                    | 15 |
| ZXD Family: Digital Medium Temperature - R22              | 17 |
| ZXD Family: Digital Medium Temperature - R404A            | 19 |
| ZXD Family: Digital Medium Temperature - R407F            | 21 |
| ZXL Family: Low temperature R22                           | 23 |
| ZXL Family: Low Temperature - R404A                       | 25 |
| ZXLD Family: Low temperature R404A                        | 26 |
| ZXL Family: Low Temperature - R404A                       | 27 |
| ZXL Family: Low Temperature - R407F                       | 28 |
| Technical Data                                            |    |
| ZX Family: Medium Temperature at 50 Hz - PFJ              | 30 |
| ZX Family: Medium Temperature at 50 Hz - TFD              | 31 |
| ZX Family: Medium Temperature at 60 Hz - PFV/ TF5/TF7     | 32 |
| ZXB Family: Medium Temperature at 50 Hz - TFD             | 33 |
| ZXB Family: Medium Temperature at 60 Hz - TF5/TF7         | 34 |
| ZXD Family: Digital Medium Temperature at 50 Hz - TFD     | 35 |
| ZXD Family: Digital Medium Temperature at 60 Hz - TF5/TF7 | 36 |
| ZXL Family: Low Temperature at 50 Hz - PFJ                | 37 |
| ZXL Family: Low Temperature at 50 Hz - TFD                | 38 |
| ZXLD Family: Low Temperature at 50 Hz - TFD               | 39 |
| ZXL Family: Low Temperature at 60 Hz - PFV/ TF5/TF7       | 40 |
| Dimensional Drawings                                      | 41 |
| Packing Information                                       | 42 |
| Conversion Chart                                          | 42 |
| Pressure Temperature Chart at Sea Level                   | 43 |
| Contact Lists                                             | 47 |



Figure 1. 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 through 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>• Greatly reduces the chance of nuisance service calls</li> <li>• Extends the life of your equipment</li> <li>• Reduces potential service costs</li> <li>• Keeps equipment operating at their original performance levels to ensure optimum energy efficiency and temperature control</li> <li>• Serves as a guide to what the contractor needs to fix in case of malfunction</li> </ul> |
| Slim profile, lighter weight and optional wall mount capability | <ul style="list-style-type: none"> <li>• Lower installation costs</li> <li>• Enhances the appearance of your enterprise site</li> <li>• Avoids more costly solutions arising from potential location issues</li> </ul>                                                                                                                                                                                                          |
| Sound improvement                                               | <ul style="list-style-type: none"> <li>• Creates a more comfortable environment for guests</li> <li>• Beneficial for regions with noise ordinances</li> </ul>                                                                                                                                                                                                                                                                   |

## Nomenclature

| ZX          | L                                                                                                                | 020       | B          | E                                | - | TFD                                                                                                                                                        | - | 451              |
|-------------|------------------------------------------------------------------------------------------------------------------|-----------|------------|----------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------|
| Unit family | Blank = Medium temp<br>B = R134a Medium temp<br>L = Low temp<br>D = Digital medium temp<br>LD = Digital low temp | 2 - 20 HP | Generation | E = Ester oil<br>O = Mineral oil |   | PFJ = 220V/240V - 1ph - 50 Hz<br>PFV = 208V/230V - 1ph - 60Hz<br>TFD = 380V/420V - 3ph - 50 Hz<br>TF5 = 200V/230V - 3ph - 60 Hz<br>TF7 = 380 - 3ph - 60 Hz |   | Bill of material |
| Base Model  |                                                                                                                  |           |            |                                  |   | Electrical Code                                                                                                                                            |   | Bill of Material |

## Bill of material

| CDU Family BOM                          | ZX      |         |     |         | ZXB |     | ZXL     |     |     | ZXD 2-9HP |     |         | ZXD 12-16HP |     | ZXLD 9HP |         | ZXLD 12-16HP |     | ZXD/ZXLD 20HP |     |
|-----------------------------------------|---------|---------|-----|---------|-----|-----|---------|-----|-----|-----------|-----|---------|-------------|-----|----------|---------|--------------|-----|---------------|-----|
|                                         | 401 501 | 451 551 | 462 | 481 581 | 401 | 451 | 451 551 | 462 | 471 | 451 551   | 462 | 481 581 | 551         | 581 | 451 551  | 481 581 | 551          | 581 | 551           | 581 |
| Liquid Line Filter Dryer/Sight Glass    | ✓       | ✓       | ✓   | ✓       | ✓   | ✓   | ✓       | ✓   | ✓   | ✓         | ✓   | ✓       | ✓           | ✓   | ✓        | ✓       | ✓            | ✓   | ✓             | ✓   |
| Liquid Receiver                         | ✓       | ✓       | ✓   | ✓       | ✓   | ✓   | ✓       | ✓   | ✓   | ✓         | ✓   | ✓       | ✓           | ✓   | ✓        | ✓       | ✓            | ✓   | ✓             | ✓   |
| Oil Separator                           |         | ✓       | ✓   | ✓       |     | ✓   | ✓       | ✓   | ✓   | ✓         | ✓   | ✓       | ✓           | ✓   | ✓        | ✓       | ✓            | ✓   | ✓             | ✓   |
| Accumulator                             |         |         |     |         |     |     | ✓       | ✓   | ✓   |           |     |         |             |     | ✓        | ✓       | ✓            | ✓   | ✓             | ✓   |
| Adjustable LP Switch                    | ✓       | ✓       |     | ✓       | ✓   | ✓   | ✓       | ✓   | ✓   |           | ✓   | ✓       |             | ✓   | ✓        | ✓       | ✓            | ✓   | ✓             | ✓   |
| LP Transducer                           |         |         | ✓   |         |     |     |         | ✓   |     | ✓         | ✓   | ✓       | ✓           | ✓   | ✓        | ✓       | ✓            | ✓   | ✓             | ✓   |
| HP Transducer                           |         |         |     |         |     |     |         |     |     |           |     |         | ✓           | ✓   |          |         | ✓            | ✓   | ✓             | ✓   |
| Fixed LP Switch                         | ✓       | ✓       | ✓   |         |     |     |         |     |     | ✓         | ✓   |         | ✓           |     |          |         |              |     |               |     |
| Fixed HP Switch                         | ✓       | ✓       | ✓   | ✓       | ✓   | ✓   | ✓       | ✓   | ✓   | ✓         | ✓   | ✓       | ✓           | ✓   | ✓        | ✓       | ✓            | ✓   | ✓             | ✓   |
| CoreSense™                              | ✓       | ✓       | ✓   | ✓       | ✓   | ✓   | ✓       | ✓   | ✓   | ✓         | ✓   | ✓       | ✓           | ✓   | ✓        | ✓       | ✓            | ✓   | ✓             | ✓   |
| Digital Modulation                      |         |         |     |         |     |     |         |     |     | ✓         | ✓   | ✓       | ✓           | ✓   | ✓        | ✓       | ✓            | ✓   | ✓             | ✓   |
| Fan Speed Controller                    | ✓       | ✓       | ✓   | ✓       | ✓   | ✓   | ✓       | ✓   | ✓   | ✓         | ✓   | ✓       | ✓           | ✓   | ✓        | ✓       | ✓            | ✓   | ✓             | ✓   |
| Intelligent Store Solution Module       | ✓       | ✓       | ✓   | ✓       | ✓   | ✓   | ✓       | ✓   | ✓   | ✓         | ✓   | ✓       | ✓           | ✓   | ✓        | ✓       | ✓            | ✓   | ✓             | ✓   |
| Circuit Breaker                         | ✓       | ✓       | ✓   | ✓       | ✓   | ✓   | ✓       | ✓   | ✓   | ✓         | ✓   | ✓       | ✓           | ✓   | ✓        | ✓       | ✓            | ✓   | ✓             | ✓   |
| Sound Jacket                            | ✓       | ✓       | ✓   | ✓       | ✓   | ✓   | ✓       | ✓   | ✓   | ✓         | ✓   | ✓       | ✓           | ✓   | ✓        | ✓       | ✓            | ✓   | ✓             | ✓   |
| Low Ambient Kit                         |         |         |     | ✓       |     |     |         |     |     |           |     | ✓       |             | ✓   |          | ✓       |              | ✓   |               | ✓   |
| Electronic Oil Level Protective Control |         |         |     |         |     |     |         |     |     |           |     |         | ✓           | ✓   |          |         | ✓            | ✓   | ✓             | ✓   |
| Emergency Mode                          |         |         |     |         |     |     |         |     |     |           |     |         |             |     |          |         |              |     | ✓             | ✓   |

BOM:

4xx - Chassis with door

5xx - Chassis without door

## CoreSense™ for ZX platform condensing unit

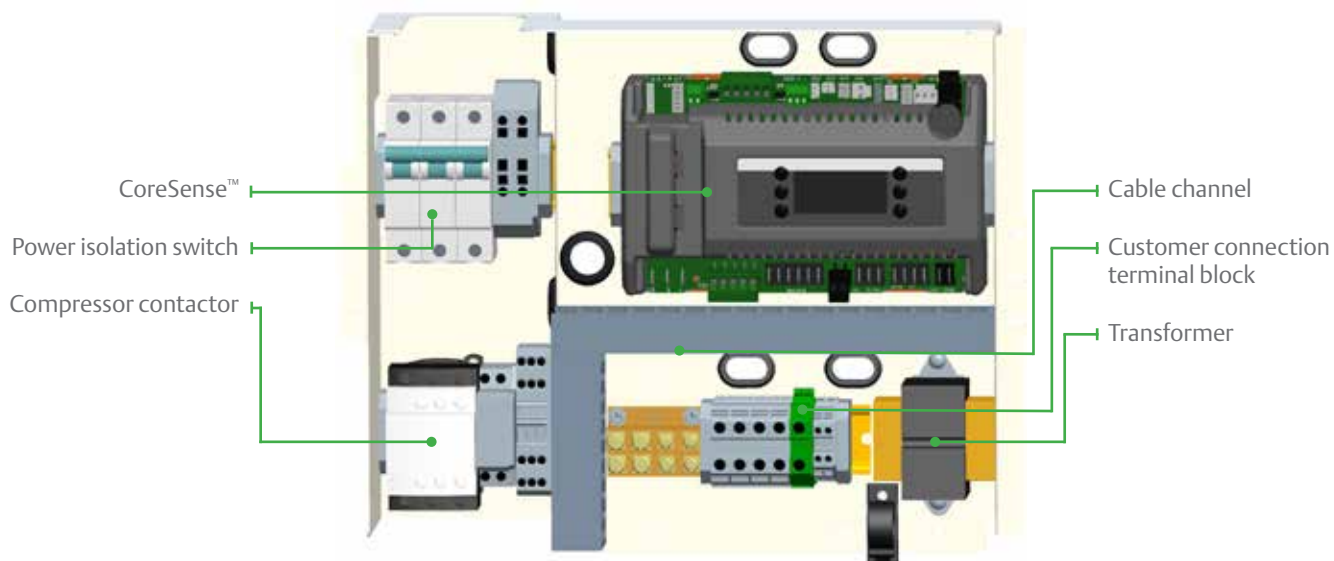
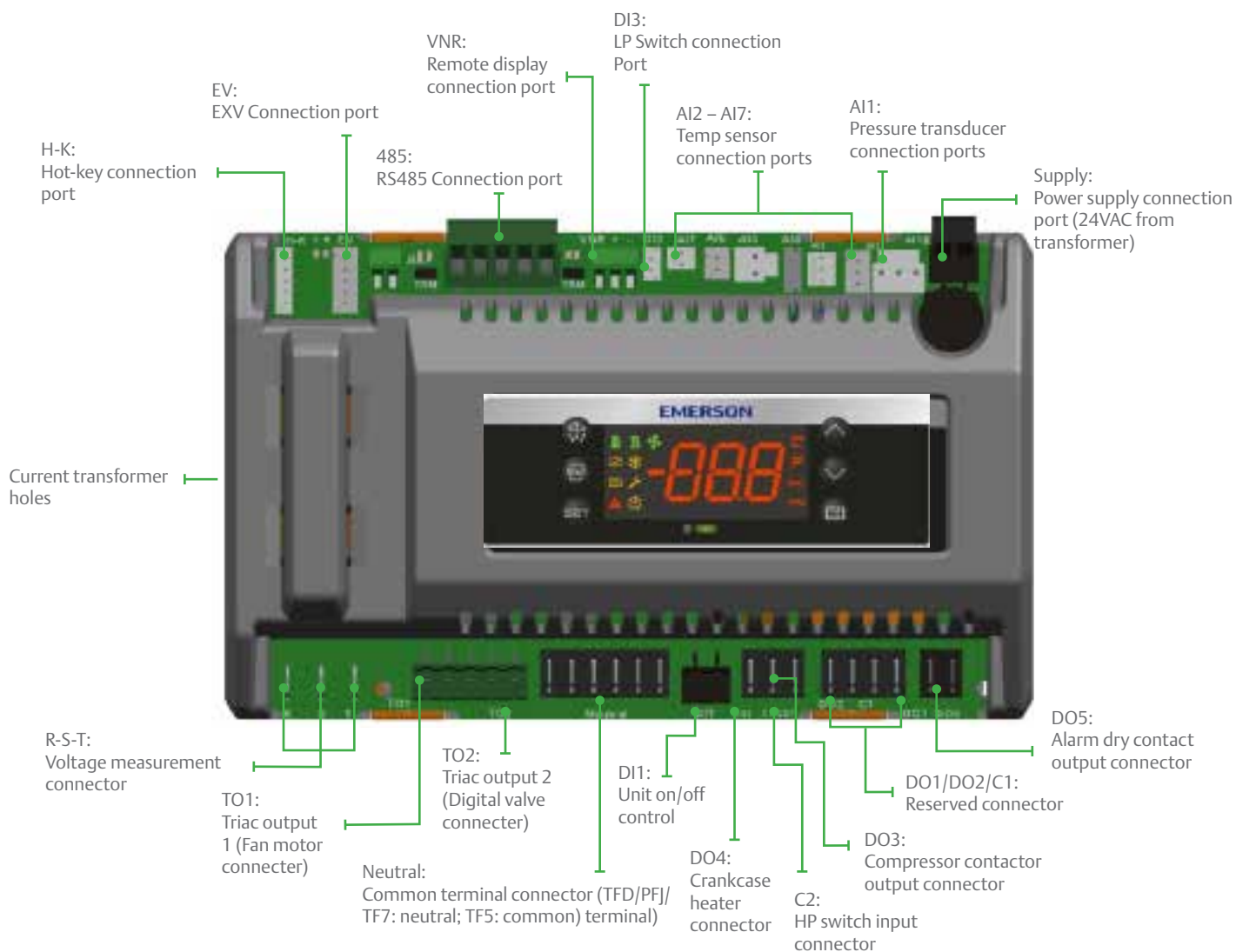


Figure 2. Layout of the CoreSense™, Intelligent Store Module

## CoreSense™ layout

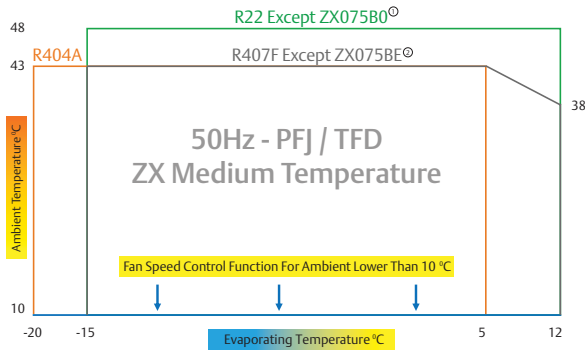


# Operating envelopes

## ZX Family : Medium temperature

ZX Medium Temperature at 50 Hz - PFJ / TFD

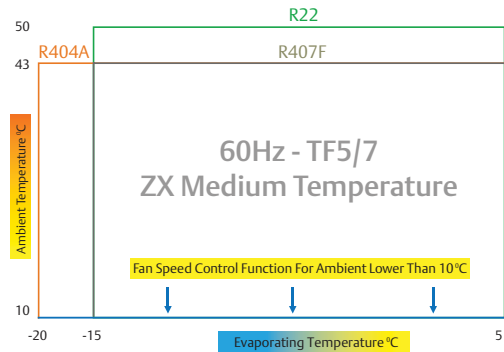
Refrigerant - R404A, R22, R407F  
Maximum Suction Gas Temperature: 20°C



Note: For model ZX075B0 (R22) Max Amb: 43°C, Max Evap: 5°C  
Note: For model ZX075BE (R407F) Max Evap: 5°C

ZX Medium Temperature at 60 Hz - PFV/TF5/TF7

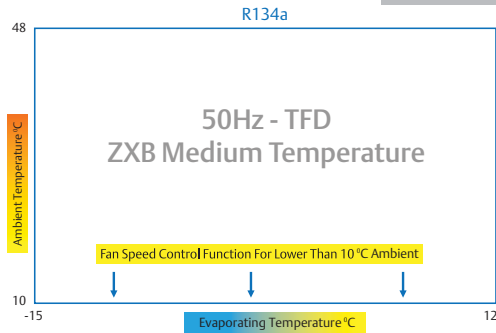
Refrigerant - R404A, R22, R407F  
Maximum Suction Gas Temperature: 20°C



## ZXB Family : Medium temperature

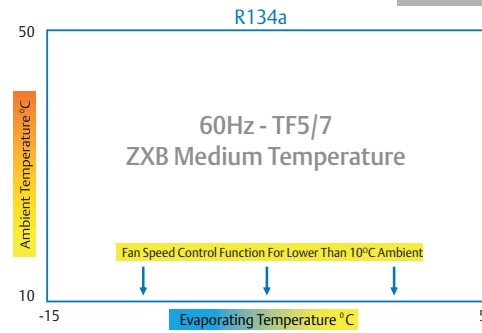
ZXB Medium Temperature at 50 Hz - TFD

Refrigerant - R134a  
Maximum Suction Gas Temperature: 20 °C



ZXB Medium Temperature at 60 Hz-TF5/7

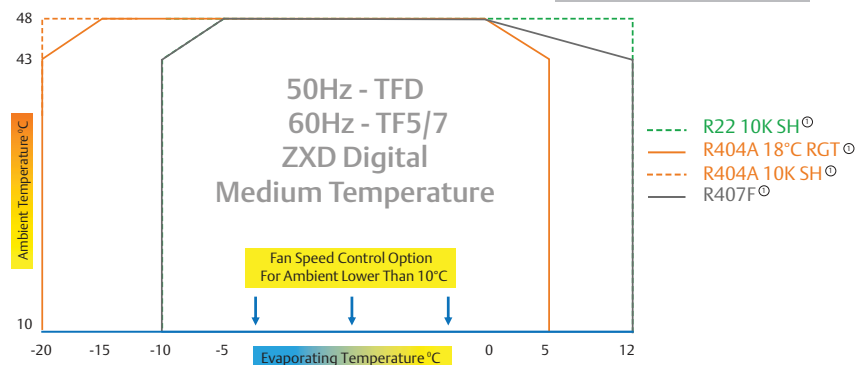
Refrigerant - R134a  
Maximum Suction Gas Temperature: 20°C



## ZXD Family : Digital medium temperature

ZXD Digital Medium Temperature at 50 Hz - TFD  
at 60 Hz - TF5/7

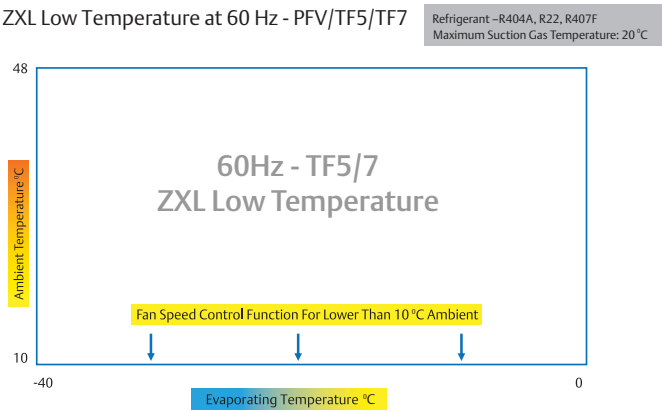
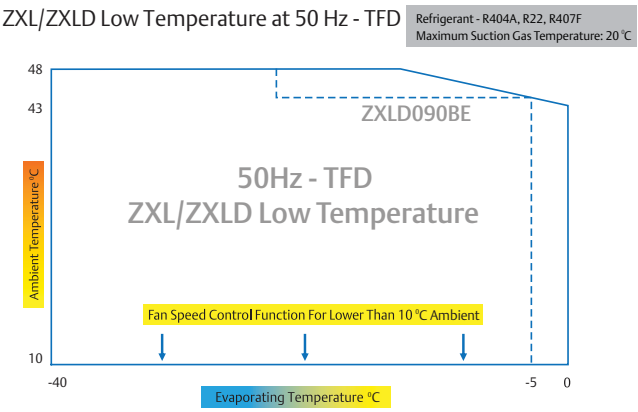
Refrigerant - R404A, R22, R407F  
Maximum Suction Gas Temperature: 20°C  
(R22 50Hz-TFD is with 10K SH)



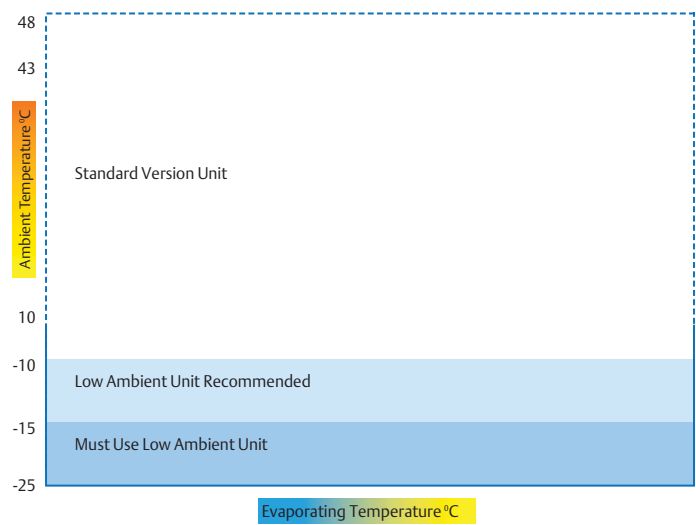
Note: For model ZXD075B0/E Max Amb: 43°C, Max Evap: 5°C  
For model ZXD090BE Max Amb: 43°C, Max Evap: 0°C

# Operating envelopes

## ZXL/ZXLD Family : Low temperature



## 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

# 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   |
| ZX020B0              | 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 |
| ZX025B0 <sup>1</sup> | 27                       | 3.52                                  | 4.17  | 4.96  | 5.91  | 7.07  | 8.44  | 9.06  | 1.43                               | 1.49 | 1.55 | 1.66 | 1.75 | 1.83 | 1.95 |
|                      | 32                       | 3.35                                  | 4.02  | 4.79  | 5.68  | 6.73  | 7.96  | 8.50  | 1.59                               | 1.64 | 1.69 | 1.84 | 1.90 | 2.00 | 2.06 |
|                      | 38                       | 2.92                                  | 3.65  | 4.43  | 5.29  | 6.25  | 7.33  | 7.81  | 1.89                               | 1.92 | 1.96 | 2.05 | 2.08 | 2.17 | 2.22 |
|                      | 43                       | 2.39                                  | 3.20  | 4.02  | 4.88  | 5.79  | 6.79  | 7.22  | 2.10                               | 2.15 | 2.22 | 2.29 | 2.33 | 2.37 | 2.45 |
|                      | 48                       | 1.70                                  | 2.62  | 3.51  | 4.39  | 5.28  | 6.22  | 6.61  | 2.59                               | 2.65 | 2.70 | 2.75 | 2.80 | 2.82 | 2.90 |
| ZX030B0              | 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 |
| ZX040B0              | 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 |
| ZX050B0 <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 |
| ZX060B0 <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 |
| ZX075B0 <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 |      |      |
| ZX076B0 <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     |
| ZX020B0 | 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  |
| ZX030B0 | 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  |
| ZX040B0 | 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  |
| ZX050B0 | 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  |
| ZX060B0 | 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  |
| ZX075B0 | 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 |

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 50 Hz - PFJ/TFD

# 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    |
| ZX020BE              | 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 |
| ZX025BE <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 |
| ZX030BE              | 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 |
| ZX040BE              | 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 |
| ZX050BE <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 |
| ZX060BE <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 |
| ZX075BE <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 |
| ZX076BE <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 - PFV/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    |
| ZX020BE              | 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 |
| ZX030BE              | 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 |
| ZX040BE              | 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 |
| ZX050BE              | 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 |
| ZX060BE <sup>1</sup> | 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 |
| ZX075BE <sup>1</sup> | 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 |

Notes: <sup>1</sup>Available on TF5/TF7 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 50 Hz - PFJ/TFD

# 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   |
| ZX020BE | 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 |      |      |
| ZX025BE | 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 |      |      |
| ZX030BE | 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 |      |      |
| ZX040BE | 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 |      |      |
| ZX050BE | 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 |      |      |
| ZX060BE | 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 |      |      |
| ZX075BE | 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 |      |      |
| ZX076BE | 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 - PFV/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    |
| ZX020BE              | 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 |
| ZX030BE              | 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 |
| ZX040BE              | 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 |
| ZX050BE              | 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 |
| ZX060BE <sup>1</sup> | 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 |
| ZX075BE <sup>1</sup> | 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 |

Notes: <sup>1</sup>Available on TF5/TF7 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.

# ZXB Family: Medium temperature

Capacity and power (kW) at 50 Hz - TFD

# 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   |
| ZXB015BE | 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 |
| ZXB020BE | 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 |
| ZXB025BE | 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 |
| ZXB030BE | 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 |
| ZXB035BE | 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 |
| ZXB040BE | 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 |
| ZXB050BE | 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 |
| ZXB060BE | 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    |
| ZXB015BE | 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 |
| ZXB020BE | 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 |
| ZXB025BE | 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 |
| ZXB030BE | 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 |
| ZXB035BE | 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 |
| ZXB040BE | 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 |
| ZXB050BE | 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 |
| ZXB060BE | 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

# 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   |
| ZXD030B0 | 27                       | 5.32                                  | 6.09  | 7.21  | 8.70  | 10.63 | 11.53 | 1.76                               | 1.93 | 2.05 | 2.09 | 1.99 | 1.90 |
|          | 32                       | 4.90                                  | 5.84  | 6.94  | 8.24  | 9.80  | 10.50 | 2.02                               | 2.11 | 2.21 | 2.28 | 2.27 | 2.24 |
|          | 38                       | 4.34                                  | 5.64  | 6.88  | 8.12  | 9.40  | 9.93  | 2.31                               | 2.27 | 2.31 | 2.39 | 2.48 | 2.50 |
|          | 43                       | 3.18                                  | 4.91  | 6.41  | 7.72  | 8.90  | 9.34  | 2.74                               | 2.57 | 2.55 | 2.62 | 2.75 | 2.81 |
|          | 48                       |                                       | 3.08  |       |       |       |       |                                    | 3.25 |      |      |      |      |
| ZXD040B0 | 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 |
| ZXD050B0 | 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 |
| ZXD060B0 | 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 |
| ZXD075B0 | 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 |      |      |
| ZXD076B0 | 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.  
 ZXD030B0 rating condition is based on 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 60 Hz – TF5/TF7

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   |
| ZXD030B0 <sup>1</sup> | 27                       | 6.18                                  | 7.27  | 8.44  | 9.77  | 11.34 | 12.05 | 2.21                               | 2.31 | 2.46 | 2.72 | 3.12 | 3.32 |
|                       | 32                       | 5.93                                  | 7.07  | 8.23  | 9.49  | 10.94 | 11.58 | 2.48                               | 2.60 | 2.76 | 2.99 | 3.32 | 3.49 |
|                       | 38                       | 5.45                                  | 6.67  | 7.86  | 9.08  | 10.42 | 11.00 | 2.72                               | 2.90 | 3.07 | 3.27 | 3.54 | 3.68 |
|                       | 43                       | 4.80                                  | 6.14  | 7.38  | 8.60  | 9.87  |       | 2.92                               | 3.14 | 3.33 | 3.52 | 3.75 |      |
|                       | 48                       |                                       | 5.35  |       |       |       |       |                                    | 3.43 |      |      |      |      |
| ZXD040B0              | 27                       | 8.03                                  | 9.77  | 11.63 | 13.35 | 15.08 |       | 3.09                               | 3.20 | 3.37 | 3.60 | 3.90 |      |
|                       | 32                       | 7.62                                  | 9.29  | 11.09 | 12.74 | 14.38 |       | 3.39                               | 3.50 | 3.68 | 3.92 | 4.24 |      |
|                       | 38                       | 6.97                                  | 8.27  | 9.89  | 11.97 | 13.66 |       | 3.80                               | 3.92 | 4.11 | 4.37 | 4.71 |      |
|                       | 43                       | 6.47                                  | 7.78  | 9.33  | 11.31 | 13.03 |       | 4.20                               | 4.32 | 4.52 | 4.79 | 5.16 |      |
|                       | 48                       |                                       | 7.43  | 8.94  | 10.51 | 12.23 |       |                                    | 4.77 | 4.98 | 5.27 | 5.66 |      |
| ZXD050B0              | 27                       | 10.30                                 | 12.52 | 14.91 | 17.12 | 19.33 |       | 3.97                               | 4.11 | 4.32 | 4.61 | 5.00 |      |
|                       | 32                       | 9.77                                  | 11.91 | 14.21 | 16.33 | 18.44 |       | 4.35                               | 4.49 | 4.72 | 5.02 | 5.44 |      |
|                       | 38                       | 8.94                                  | 10.60 | 12.68 | 15.35 | 17.51 |       | 4.88                               | 5.03 | 5.27 | 5.60 | 6.04 |      |
|                       | 43                       | 8.29                                  | 9.98  | 11.97 | 14.50 | 16.71 |       | 5.38                               | 5.54 | 5.79 | 6.14 | 6.61 |      |
|                       | 48                       |                                       | 9.53  | 11.46 | 13.48 | 15.68 |       |                                    | 6.12 | 6.38 | 6.76 | 7.25 |      |
| ZXD060B0              | 27                       | 12.15                                 | 14.77 | 17.60 | 20.20 | 22.81 |       | 4.72                               | 4.89 | 5.14 | 5.49 | 5.95 |      |
|                       | 32                       | 11.53                                 | 14.06 | 16.77 | 19.27 | 21.76 |       | 5.17                               | 5.35 | 5.61 | 5.98 | 6.47 |      |
|                       | 38                       | 10.54                                 | 12.51 | 14.96 | 18.11 | 20.66 |       | 5.80                               | 5.99 | 6.27 | 6.66 | 7.18 |      |
|                       | 43                       | 9.78                                  | 11.78 | 14.12 | 17.11 | 19.72 |       | 6.41                               | 6.60 | 6.89 | 7.31 | 7.87 |      |
|                       | 48                       | NA                                    | 11.24 | 13.52 | 15.90 | 18.50 |       | NA                                 | 7.28 | 7.60 | 8.04 | 8.63 |      |
| ZXD075B0              | 27                       | 13.29                                 | 16.15 | 19.24 | 22.08 | 24.94 |       | 5.23                               | 5.42 | 5.70 | 6.09 | 6.60 |      |
|                       | 32                       | 12.61                                 | 15.37 | 18.34 | 21.06 | 23.79 |       | 5.74                               | 5.93 | 6.22 | 6.63 | 7.18 |      |
|                       | 38                       | 11.53                                 | 13.67 | 16.36 | 19.80 | 22.59 |       | 6.44                               | 6.64 | 6.95 | 7.39 | 7.97 |      |
|                       | 43                       | 10.70                                 | 12.87 | 15.44 | 18.70 | 21.55 |       | 7.10                               | 7.32 | 7.64 | 8.11 | 8.73 |      |
|                       | 48                       | NA                                    | 12.29 | 14.78 | 17.38 | 20.23 |       | NA                                 | 8.08 | 8.43 | 8.92 | 9.57 |      |

Notes: <sup>1</sup>Available on TF7 models only.

The rating condition is based on suction superheat of 10K.

ZXD030B0 rating condition is based on 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

# R404A

| Model                          | Ambient temperature (°C) | Capacity evaporating temperature (°C) |       |       |       |       |       | Power evaporating temperature (°C) |       |       |       |       |       |
|--------------------------------|--------------------------|---------------------------------------|-------|-------|-------|-------|-------|------------------------------------|-------|-------|-------|-------|-------|
|                                |                          | -20                                   | -15   | -10   | -5    | 0     | 5     | -20                                | -15   | -15   | -5    | 0     | 5     |
| ZXD030BE                       | 27                       | 3.95                                  | 4.65  | 5.56  | 6.65  | 7.90  | 9.28  | 1.92                               | 2.14  | 2.24  | 2.26  | 2.26  | 2.29  |
|                                | 32                       | 3.72                                  | 4.37  | 5.20  | 6.18  | 7.28  | 8.47  | 2.01                               | 2.22  | 2.33  | 2.38  | 2.43  | 2.53  |
|                                | 38                       | 3.32                                  | 3.94  | 4.69  | 5.55  | 6.48  | 7.45  | 2.27                               | 2.46  | 2.56  | 2.63  | 2.73  | 2.90  |
|                                | 43                       | 2.98                                  | 3.59  | 4.29  | 5.06  | 5.86  | 6.67  | 2.53                               | 2.69  | 2.78  | 2.85  | 2.97  | 3.19  |
|                                | 48                       |                                       | 3.34  | 4.00  | 4.70  | 5.39  |       |                                    | 2.86  | 2.92  | 2.99  | 3.13  |       |
| ZXD040BE                       | 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  |       |
| ZXD050BE                       | 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  |       |
| ZXD060BE                       | 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  |       |
| ZXD075BE                       | 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  |
| ZXD076BE                       | 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  |       |
| ZXD090BE                       | 27                       | 11.80                                 | 13.70 | 14.70 | 16.25 | 18.30 |       | 5.10                               | 5.20  | 5.50  | 6.50  | 6.20  |       |
|                                | 32                       | 10.70                                 | 12.50 | 14.50 | 16.20 | 17.00 |       | 6.20                               | 6.30  | 6.40  | 7.10  | 6.80  |       |
|                                | 38                       | 10.50                                 | 12.30 | 14.40 | 16.10 | 16.80 |       | 7.80                               | 8.20  | 8.50  | 9.40  | 8.40  |       |
|                                | 43                       | 9.90                                  | 11.90 | 13.20 | 14.50 | 15.20 |       | 8.42                               | 8.80  | 9.56  | 9.90  | 9.20  |       |
| ZXD160BE                       | 27                       | 21.54                                 | 24.95 | 28.49 | 32.10 | 35.71 | 39.27 | 10.45                              | 10.86 | 11.27 | 11.69 | 12.13 | 12.61 |
|                                | 32                       | 20.35                                 | 23.84 | 27.53 | 31.33 | 35.18 | 39.03 | 11.45                              | 11.89 | 12.33 | 12.78 | 13.26 | 13.77 |
|                                | 38                       | 19.48                                 | 22.99 | 26.75 | 30.68 | 34.73 | 38.83 | 12.49                              | 12.99 | 13.48 | 13.99 | 14.53 | 15.10 |
|                                | 43                       | 18.71                                 | 22.15 | 25.88 | 29.84 | 33.97 | 38.21 | 13.41                              | 13.96 | 14.52 | 15.09 | 15.69 | 16.33 |
|                                | 48                       | 17.41                                 | 20.71 | 24.34 | 28.26 | 32.39 | 36.68 | 14.52                              | 15.15 | 15.78 | 16.43 | 17.11 | 17.82 |
| ZXD200BE<br>* preliminary data | 27                       | 25.15                                 | 30.38 | 35.68 | 41.14 | 46.68 | 52.35 | 13.40                              | 13.71 | 14.08 | 15.00 | 16.29 | 17.74 |
|                                | 32                       | 23.59                                 | 29.01 | 34.48 | 40.12 | 46.01 | 52.25 | 15.78                              | 15.89 | 15.96 | 16.37 | 17.21 | 18.20 |
|                                | 38                       | 21.80                                 | 27.27 | 32.79 | 38.45 | 44.36 | 50.61 | 18.26                              | 18.56 | 18.77 | 18.90 | 19.33 | 20.03 |
|                                | 43                       | 20.75                                 | 26.12 | 31.53 | 37.07 | 42.85 | 48.96 | 20.30                              | 20.59 | 20.78 | 20.93 | 21.32 | 21.99 |
|                                | 48                       | 20.46                                 | 25.60 | 30.76 | 36.06 | 41.57 | 47.41 | 21.66                              | 21.86 | 22.02 | 22.24 | 22.95 | 23.79 |

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 - 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    |
| ZXD030BE <sup>1</sup> | 27                       | 4.70                                  | 5.68  | 6.71  | 7.80  | 8.94  | 10.14 | 2.29                               | 2.46 | 2.63 | 2.79 | 2.95 | 3.10 |
|                       | 32                       | 4.43                                  | 5.36  | 6.33  | 7.34  | 8.37  | 9.45  | 2.48                               | 2.66 | 2.84 | 3.01 | 3.18 | 3.35 |
|                       | 38                       | 4.03                                  | 4.89  | 5.77  | 6.67  | 7.58  | 8.50  | 2.73                               | 2.92 | 3.10 | 3.29 | 3.48 | 3.67 |
|                       | 43                       | 3.67                                  | 4.47  | 5.27  | 6.07  | 6.86  | 7.65  | 2.96                               | 3.15 | 3.34 | 3.54 | 3.75 | 3.95 |
|                       | 48                       |                                       | 4.07  | 4.78  | 5.48  | 6.15  |       |                                    | 3.40 | 3.59 | 3.80 | 4.02 |      |
| ZXD040BE              | 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 |      |
| ZXD050BE              | 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 |      |
| ZXD060BE              | 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 |      |
| ZXD075BE              | 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: <sup>1</sup>Available on TF7 models only.  
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

# R407F

| Model    | Ambient temperature (°C) | Capacity evaporating temperature (°C) |       |       |       |       |       | Power evaporating temperature (°C) |      |      |      |      |      |
|----------|--------------------------|---------------------------------------|-------|-------|-------|-------|-------|------------------------------------|------|------|------|------|------|
|          |                          | -10                                   | -5    | 0     | 5     | 10    | 12    | -10                                | -5   | 0    | 5    | 10   | 12   |
| ZXD030BE | 27                       | 5.70                                  | 6.64  | 7.48  | 8.63  | 10.52 | 11.57 | 2.20                               | 2.33 | 2.61 | 2.87 | 2.93 | 2.86 |
|          | 32                       | 5.31                                  | 6.35  | 7.24  | 8.40  | 10.25 | 11.27 | 2.42                               | 2.53 | 2.79 | 3.01 | 3.02 | 2.92 |
|          | 38                       | 4.72                                  | 5.84  | 6.75  | 7.88  | 9.64  | 10.62 | 2.79                               | 2.90 | 3.14 | 3.33 | 3.30 | 3.19 |
|          | 43                       |                                       | 5.45  | 6.35  |       |       |       |                                    | 3.23 | 3.47 |      |      |      |
|          | 48                       |                                       |       |       |       |       |       |                                    |      |      |      |      |      |
| ZXD040BE | 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 |      |      |      |
| ZXD050BE | 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 |      |      |      |
| ZXD060BE | 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 |      |      |      |
| ZXD075BE | 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                       |                                       |       |       |       |       |       |                                    |      |      |      |      |      |
| ZXD076BE | 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 and 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 60 Hz - TF5/TF7

# R407F

| Model                 | Ambient temperature (°C) | Capacity evaporating temperature (°C) |       |       |       |       |       | Power evaporating temperature (°C) |      |      |      |      |      |
|-----------------------|--------------------------|---------------------------------------|-------|-------|-------|-------|-------|------------------------------------|------|------|------|------|------|
|                       |                          | -10                                   | -5    | 0     | 5     | 10    | 12    | -10                                | -5   | 0    | 5    | 10   | 12   |
| ZXD030BE <sup>1</sup> | 27                       | 6.92                                  | 8.06  | 9.40  | 10.99 | 12.90 | 13.76 | 2.64                               | 2.82 | 2.97 | 3.13 | 3.40 | 3.55 |
|                       | 32                       | 6.66                                  | 7.78  | 9.01  | 10.41 | 12.04 | 12.78 | 2.85                               | 3.05 | 3.20 | 3.39 | 3.67 | 3.83 |
|                       | 38                       | 6.20                                  | 7.32  | 8.45  | 9.64  | 10.98 | 11.56 | 3.13                               | 3.35 | 3.54 | 3.75 | 4.08 | 4.25 |
|                       | 43                       |                                       | 6.84  | 7.90  |       |       |       |                                    | 3.65 | 3.86 |      |      |      |
|                       | 48                       |                                       |       |       |       |       |       |                                    |      |      |      |      |      |
| ZXD040BE              | 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 |      |      |      |
| ZXD050BE              | 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 |      |      |      |
| ZXD060BE              | 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 |      |      |      |
| ZXD075BE              | 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: <sup>1</sup>Available on TF7 models only.

The rating condition is based on suction superheat of 10K

ZXD030BE rating condition is based on return gas temperature of 18.3°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

# 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    |
| ZXL020B0              | 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 |      |      |      |
| ZXL025B0              | 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 |      |      |      |
| ZXL030B0              | 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 |      |      |      |
| ZXL035B0 <sup>1</sup> | 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 |      |      |      |
| ZXL040B0 <sup>1</sup> | 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 |      |      |      |
| ZXL050B0 <sup>1</sup> | 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 |      |      |      |
| ZXL060B0 <sup>1</sup> | 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 |      |      |      |
| ZXL075B0 <sup>1</sup> | 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 |      |      |      |

Notes: <sup>1</sup>Available on TFD models only

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     |  |  |
| ZXL020BE | 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  |  |  |
| ZXL025BE | 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  |  |  |
| ZXL030BE | 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  |  |  |
| ZXL035BE | 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  |  |  |
| ZXL040BE | 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  |  |  |
| ZXL050BE | 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  |  |  |
| ZXL060BE | 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  |  |  |
| ZXL075BE | 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 |  |  |

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

# R404A

| 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    |
| ZXL020BE              | 27                       | 1.52                                  | 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 |      |      |      |
| ZXL025BE              | 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 |      |      |      |
| ZXL030BE              | 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 |      |      |      |
| ZXL035BE <sup>1</sup> | 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 |      |      |      |
| ZXL040BE <sup>1</sup> | 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 |      |      |      |
| ZXL050BE <sup>1</sup> | 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 |      |      |      |
| ZXL060BE <sup>1</sup> | 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 |      |      |      |
| ZXL075BE <sup>1</sup> | 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: <sup>1</sup>Available on TFD models only

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.

# ZXLD Family: Low temperature

Capacity and power (kW) at 50 Hz - TFD

# 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     |
| ZXLD090BE                       | 27                       | 5.53                                     | 6.79  | 8.21  | 9.78  | 11.43 | 13.26 | 15.34 | 17.66 |       | 4.27                                  | 4.61  | 5.02  | 5.51  | 6.00  | 6.49  | 6.99  | 7.50  |       |
|                                 | 32                       | 5.31                                     | 6.55  | 7.87  | 9.43  | 10.95 | 12.65 | 14.54 | 16.72 |       | 4.71                                  | 4.97  | 5.47  | 6.05  | 6.64  | 7.08  | 7.76  | 8.24  |       |
|                                 | 38                       | 5.00                                     | 6.16  | 7.50  | 8.85  | 10.48 | 11.90 | 13.58 | 15.17 |       | 5.44                                  | 5.68  | 6.12  | 6.33  | 7.39  | 8.01  | 8.67  | 9.22  |       |
|                                 | 43                       | 4.72                                     | 5.85  | 6.88  | 8.57  | 9.98  | 11.04 | 12.74 | 13.89 |       | 6.26                                  | 6.46  | 6.80  | 7.33  | 8.07  | 8.92  | 9.50  | 10.03 |       |
|                                 | 48                       | 4.05                                     | 5.39  | 6.57  | 7.96  |       |       |       |       |       | 7.12                                  | 7.46  | 7.84  | 8.38  |       |       |       |       |       |
| ZXLD160BE                       | 27                       | 11.99                                    | 14.09 | 17.25 | 21.23 | 25.80 | 30.71 | 35.65 | 40.25 | 44.43 | 8.72                                  | 9.52  | 10.30 | 11.08 | 11.86 | 12.67 | 13.50 | 14.38 | 15.32 |
|                                 | 32                       | 11.82                                    | 13.83 | 16.83 | 20.60 | 24.89 | 29.46 | 34.07 | 38.48 | 42.44 | 9.89                                  | 10.81 | 11.70 | 12.57 | 13.42 | 14.28 | 15.15 | 16.05 | 16.99 |
|                                 | 38                       | 10.07                                    | 12.03 | 14.97 | 18.64 | 22.79 | 27.20 | 31.61 | 35.80 | 39.50 | 11.24                                 | 12.30 | 13.31 | 14.27 | 15.20 | 16.12 | 17.02 | 17.93 | 18.86 |
|                                 | 43                       | 8.93                                     | 10.87 | 13.75 | 17.33 | 21.38 | 25.65 | 29.91 | 33.90 | 37.40 | 12.13                                 | 13.30 | 14.40 | 15.43 | 16.42 | 17.37 | 18.29 | 19.21 | 20.12 |
|                                 | 48                       | 8.83                                     | 10.74 | 13.56 | 17.07 | 21.01 | 25.15 |       |       |       | 12.61                                 | 13.88 | 15.06 | 16.17 | 17.20 | 18.18 |       |       |       |
| ZXLD200BE<br>* preliminary data | 27                       | 12.43                                    | 16.10 | 19.72 | 23.44 | 27.37 | 31.56 | 36.10 | 41.06 | 46.54 | 9.13                                  | 10.18 | 11.25 | 12.28 | 13.22 | 14.01 | 14.61 | 14.96 | 15.10 |
|                                 | 32                       | 12.18                                    | 15.86 | 19.27 | 22.82 | 26.58 | 30.65 | 35.09 | 39.98 | 45.40 | 10.16                                 | 11.17 | 12.24 | 13.30 | 14.30 | 15.19 | 15.91 | 16.42 | 16.66 |
|                                 | 38                       | 11.95                                    | 15.63 | 18.82 | 22.18 | 25.80 | 29.73 | 34.08 | 38.90 | 44.29 | 11.14                                 | 12.21 | 13.38 | 14.58 | 15.76 | 16.88 | 17.86 | 18.67 | 19.25 |
|                                 | 43                       | 11.85                                    | 15.45 | 18.49 | 21.72 | 25.23 | 29.08 | 33.37 | 38.17 | 43.55 | 11.73                                 | 12.95 | 14.28 | 15.69 | 17.12 | 18.50 | 19.80 | 20.95 | 21.90 |
|                                 | 48                       | 11.80                                    | 15.27 | 18.17 | 21.29 | 24.70 | 28.50 |       |       |       | 12.11                                 | 13.54 | 15.14 | 16.83 | 18.58 | 20.32 |       |       |       |

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- PFV/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     |
| ZXL020BE              | 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  |
| ZXL025BE <sup>1</sup> | 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  |
| ZXL030BE <sup>1</sup> | 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  |
| ZXL035BE              | 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  |
| ZXL040BE              | 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  |
| ZXL050BE              | 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  |
| ZXL060BE <sup>1</sup> | 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 |
| ZXL075BE <sup>1</sup> | 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: <sup>1</sup>Available on TF5/TF7 models only  
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

# 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    |  |  |
| ZXL020BE              | 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 |      |      |      |  |  |
| ZXL025BE              | 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 |      |      |      |  |  |
| ZXL030BE              | 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 |      |      |      |  |  |
| ZXL035BE <sup>1</sup> | 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 |      |      |      |  |  |
| ZXL040BE <sup>1</sup> | 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 |      |      |      |  |  |
| ZXL050BE <sup>1</sup> | 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 |      |      |      |  |  |
| ZXL060BE <sup>1</sup> | 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 |      |      |      |  |  |
| ZXL075BE <sup>1</sup> | 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: <sup>1</sup>Available on TFD models only  
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 - PFV/TF5/TF7

# R407F

| Model     | Ambient temperature (°C) | Capacity<br>evaporating temperature (°C) |      |      |       |       |       | Power<br>evaporating temperature (°C) |      |      |      |      |      |
|-----------|--------------------------|------------------------------------------|------|------|-------|-------|-------|---------------------------------------|------|------|------|------|------|
|           |                          | -40                                      | -35  | -30  | -25   | -20   | -15   | -40                                   | -35  | -30  | -25  | -20  | -15  |
| ZXL020BE  | 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 |
| ZXL025BE¹ | 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 |
| ZXL030BE¹ | 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 |
| ZXL035BE  | 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 |
| ZXL040BE  | 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 |
| ZXL050BE  | 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 |
| ZXL060BE¹ | 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 |
| ZXL075BE¹ | 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: ¹Available on TF5/TF7 models only  
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     |                       |                 |        | ZX020B0          | ZX025B0 | ZX030B0 | ZX040B0 |
|                |                       |                 |        | ZX020BE          | ZX025BE | ZX030BE | ZX040BE |
| Performance    | R22                   | ET/AT/RGT       | °C     | -6.7/32/18.3     |         |         |         |
|                |                       | Capacity        | kW     | 3.85             | 4.51    | 5.53    | 7.57    |
|                |                       | COP             | W/W    | 2.41             | 2.69    | 2.43    | 2.54    |
|                | R404A                 | ET/AT/RGT       | °C     | -6.7/32/18.3     |         |         |         |
|                |                       | 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     | -6.7/32/18.3     |         |         |         |
|                |                       | 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)  | 56               |         |         |         |
| Compressor     | 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 |        | 1.18             | 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           | m³/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

| Family         |                       |            |                  | ZX                 |                    |                    |                    |                    |                    |                    |
|----------------|-----------------------|------------|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Nominal Rating |                       | Horsepower | HP               | 2                  | 3                  | 4                  | 5                  | 6                  | 7.5                | 7.6                |
| Model Name     |                       |            |                  | ZX020B0<br>ZX020BE | ZX030B0<br>ZX030BE | ZX040B0<br>ZX040BE | ZX050B0<br>ZX050BE | ZX060B0<br>ZX060BE | ZX075B0<br>ZX075BE | ZX076B0<br>ZX076BE |
| Performance    | R22                   | ET/AT/RGT  | °C               | -6.7/32/18.3       |                    |                    |                    |                    |                    |                    |
|                |                       | Capacity   | kW               | 3.85               | 5.53               | 7.57               | 9.30               | 11.20              | 12.60              | 12.85              |
|                |                       | COP        | W/W              | 2.41               | 2.43               | 2.43               | 2.66               | 2.60               | 2.57               | 2.65               |
|                | R404A                 | ET/AT/RGT  | °C               | -6.7/32/18.3       |                    |                    |                    |                    |                    |                    |
|                |                       | 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               | -6.7/32/18.3       |                    |                    |                    |                    |                    |                    |
|                |                       | 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)        | 56                 |                    |                    | 60                 |                    |                    |                    |
| Compressor     | 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 m³/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 - PFV/TF5/TF7

| Family         |                       |                 |           | ZX                 |                    |                    |                    |                    |                    |
|----------------|-----------------------|-----------------|-----------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Nominal Rating |                       | Horsepower      | HP        | 2                  | 3                  | 4                  | 5                  | 6                  | 7.5                |
| Model Name     |                       |                 |           | ZX020B0<br>ZX020BE | ZX030B0<br>ZX030BE | ZX040B0<br>ZX040BE | ZX050B0<br>ZX050BE | ZX060B0<br>ZX060BE | ZX075B0<br>ZX075BE |
| Performance    | R22                   | ET/AT/RGT       | °C        | -6.7/32/18.3       |                    |                    |                    |                    |                    |
|                |                       | 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        | -6.7/32/18.3       |                    |                    |                    |                    |                    |
|                |                       | 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        | -6.7/32/18.3       |                    |                    |                    |                    |                    |
|                |                       | 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) | 56                 |                    | 60                 |                    |                    |                    |
| Compressor     | 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        |
|                | PFV/TF5/TF7           | R404A           | Amp       | 15.7/8.9/5.1       | 20.7/12.1/7.4      | 25.0/15.7/9.6      | 30.8/24.0/12.4     | -/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      |
|                | PFV/TF5/TF7           | R404A           | Amp       | 61.0/27.0/61.0     | 95.0/77.0/39.0     | 137.0/115.0/54.0   | 144.0/128.0/64.0   | -/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           | m³/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

| Family         |                      |            |        | ZXB              |          |          |          |                   |          |          |          |
|----------------|----------------------|------------|--------|------------------|----------|----------|----------|-------------------|----------|----------|----------|
| Nominal Rating |                      | Horsepower | HP     | 1.5              | 2        | 2.5      | 3        | 3.5               | 4        | 5        | 5.5      |
| Model Name     |                      |            |        | ZXB015BE         | ZXB020BE | ZXB025BE | ZXB030BE | ZXB035BE          | ZXB040BE | ZXB050BE | ZXB060BE |
| Power          |                      | Phase      | Ph     | 3                | 3        | 3        | 3        | 3                 | 3        | 3        | 3        |
| Performance    | R134a                | ET/AT/RGT  | °C     | -6.7/32/18.3     |          |          |          |                   |          |          |          |
|                |                      | Capacity   | kW     | 3.20             | 3.76     | 3.92     | 4.96     | 6.61              | 7.23     | 8.52     | 9.38     |
|                |                      | COP        | W/W    | 2.73             | 3.01     | 2.74     | 2.86     | 2.88              | 2.94     | 2.91     | 2.65     |
|                | Sound Pressure Level |            | @1m    | dB(A)            | 56       |          |          |                   | 60       |          |          |
| Compressor     | Rated Load Ampere    | R134a      | Amp    | 5.0              | 5.6      | 5.6      | 7.1      | 7.1               | 7.9      | 10.0     | 12.1     |
|                | Locked Rotor Ampere  | R134a      | Amp    | 39.2             | 39.2     | 39.2     | 51.5     | 51.5              | 51.5     | 74.0     | 101.0    |
|                | Oil Type             | R134a      |        | POE              |          |          |          |                   |          |          |          |
|                | Oil Recharge Volume  | R134a      | Liters | 0.56             | 0.56     | 0.56     | 1.24     | 1.24              | 1.24     | 1.77     | 1.77     |
|                | Oil Initial Volume   | R134a      | Liters | 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      | m³/h   | 2922             | 2922     | 2922     | 2922     | 2922              | 5910     | 5910     | 5910     |
|                | 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      | 0.5      |
|                | Receiver Volume      | R134a      | kg     | 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  | 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      |          |

# 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     |                      |            |        | ZXB015BE         | ZXB020BE  | ZXB025BE  | ZXB030BE   | ZXB035BE          | ZXB040BE   | ZXB050BE   | ZXB060BE   |
| Power          |                      | Phase      | Ph     | 3                | 3         | 3         | 3          | 3                 | 3          | 3          | 3          |
| Performance    | R134a                | ET/AT/RGT  | °C     | -6.7/32/18.3     |           |           |            |                   |            |            |            |
|                |                      | Capacity   | kW     | 3.86             | 4.53      | 4.91      | 5.99       | 7.97              | 8.72       | 10.27      | 11.30      |
|                |                      | COP        | W/W    | 2.73             | 3.09      | 2.80      | 2.86       | 2.88              | 2.97       | 2.90       | 2.66       |
|                | Sound Pressure Level | @1m        | dB(A)  | 56               |           |           |            | 60                |            |            |            |
| Compressor     | Rated Load Ampere    | R134a      | Amp    | 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      | 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             | R134a      |        | POE              |           |           |            |                   |            |            |            |
|                | Oil Recharge Volume  | R134a      | Liters | 0.56             | 0.56      | 0.56      | 1.24       | 1.24              | 1.24       | 1.77       | 1.77       |
|                | Oil Initial Volume   | R134a      | Liters | 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      | m³/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        | 0.5        |
|                | Receiver Volume      | R134a      | kg     | 5.1              | 5.1       | 5.1       | 5.1        | 7.2               | 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

| Family         |                       |                         |        | ZXD              |                   |          |          |          |          |          |                    |                 |
|----------------|-----------------------|-------------------------|--------|------------------|-------------------|----------|----------|----------|----------|----------|--------------------|-----------------|
| Nominal Rating |                       | Horsepower HP           |        | 3                | 4                 | 5        | 6        | 7.5      | 7.6      | 9        | 16                 | 20              |
| Model Name     |                       |                         |        | ZXD030B0         | ZXD040B0          | ZXD050B0 | ZXD060B0 | ZXD075B0 | ZXD076B0 |          |                    |                 |
|                |                       |                         |        | ZXD030BE         | ZXD040BE          | ZXD050BE | ZXD060BE | ZXD075BE | ZXD076BE | ZXD090BE | ZXD160BE           | ZXD200BE        |
| Performance    | R22                   | ET/AT/RGT               | °C     | -6.7/32/18.3     |                   |          |          |          |          |          |                    |                 |
|                |                       | Capacity                | kW     | 5.49             | 7.76              | 9.30     | 11.0     | 12.84    | 13.09    | /        | /                  | /               |
|                |                       | COP                     | W/W    | 2.60             | 2.67              | 2.65     | 2.64     | 2.53     | 2.67     | /        | /                  | /               |
|                | R404A                 | ET/AT/RGT               | °C     | -6.7/32/18.3     |                   |          |          |          |          |          |                    |                 |
|                |                       | Capacity                | kW     | 5.82             | 8.30              | 10.70    | 11.80    | 13.20    | 13.46    | 15.5     | 29.0               | 37.3            |
|                |                       | COP                     | W/W    | 2.45             | 2.47              | 2.43     | 2.41     | 2.43     | 2.49     | 2.28     | 2.40               | 2.31            |
|                | R407F                 | ET/AT/RGT               | °C     | -6.7/32/18.3     |                   |          |          |          |          |          |                    |                 |
|                |                       | Capacity                | kW     | 6.04             | 8.28              | 10.34    | 11.26    | 13.63    | 13.90    | /        | /                  | /               |
|                |                       | COP                     | W/W    | 2.47             | 2.71              | 2.73     | 2.46     | 2.40     | 2.50     | /        | /                  | /               |
|                | Sound Pressure Level  | @1m                     | dB(A)  | 56               | 60                |          |          |          |          | 62       | 69                 | 72              |
|                | Rated Load Ampere     | R22                     | Amp    | 7.4              | 7.9               | 10.0     | 10.0     | 12.1     | 12.1     | /        | /                  | /               |
|                |                       | R404A                   | Amp    | 7.4              | 7.7               | 10.4     | 12.4     | 12.4     | 12.4     | 14.6     | 11.1 + 11.1        | 14.6 + 14.6     |
|                |                       | R407F                   | Amp    | 7.4              | 7.9               | 10.0     | 12.1     | 12.1     | 12.1     | /        | /                  | /               |
|                | Locked Rotor Ampere   | R22                     | Amp    | 40.0             | 48.0              | 64.0     | 74.0     | 100.0    | 100.0    | /        | /                  | /               |
|                |                       | R404A                   | Amp    | 40.0             | 48.0              | 64.0     | 74.0     | 100.0    | 100.0    | 102      | 74                 | 102             |
|                |                       | R407F                   | Amp    | 40.0             | 48.0              | 64.0     | 74.0     | 100.0    | 100.0    | /        | /                  | /               |
|                | Oil Type              | R22                     |        | MINERAL          |                   |          |          |          |          |          |                    |                 |
|                |                       | R404A                   |        | POE              |                   |          |          |          |          |          |                    |                 |
|                |                       | R407F                   |        | POE              |                   |          |          |          |          |          |                    |                 |
|                | Oil Recharge Volume   | R22/<br>R404A/<br>R407F | Liters | 1.12             | 1.24              | 1.77     | 1.77     | 1.77     | 1.77     | 1.89     | 1.9 + 1.9          | 1.9 + 1.9       |
| Fan Motor      | Number of Fan         |                         | Pieces | 1                | 3                 | 2        | 2        | 2        | 2        | 2        | 2                  | 3               |
|                | Diameter              |                         | mm     | 450              | 450               | 450      | 450      | 450      | 450      | 450      | 590                | 600             |
|                | Fan Speed             |                         | rpm    | 830              | 830               | 830      | 830      | 830      | 830      | 830      | 850                | 860             |
|                | Air Flow              | Total                   | m3/h   | 2922             | 5910              | 5910     | 5910     | 5910     | 5910     | 5910     | 19280              | 23400           |
|                | Total Fan Motor Power | Input                   | W      | 116              | 246               | 246      | 246      | 246      | 246      | 246      | 950                | 1350            |
| Others         | Oil Separator         | Volume                  | Liters | 0.5              | 0.5               | 0.5      | 0.5      | 0.5      | 0.5      | 0.5      | 2.5                | 3               |
|                | Receiver Volume       | R22                     | kg     | 5.1              | 7.2               | 7.2      | 7.2      | 7.2      | 7.2      | /        | /                  | /               |
|                |                       | R404A                   | kg     | 4.4              | 6.3               | 6.3      | 6.3      | 6.3      | 6.3      | 6.3      | 17                 | 17              |
|                |                       | R407F                   | kg     | 4.5              | 6.4               | 6.4      | 6.4      | 6.4      | 6.4      | /        | /                  | /               |
|                | Pipes                 | Suction OD              | Inch   | 3/4              | 7/8               | 7/8      | 7/8      | 7/8      | 7/8      | 7/8      | 1 3/8              | 1 3/8           |
|                |                       | Liquid OD               | Inch   | 1/2              | 1/2               | 1/2      | 1/2      | 1/2      | 1/2      | 1/2      | 3/4                | 3/4             |
|                | Dimension             | W x D x H               | mm     | 1029 x 424 x 840 | 1029 x 424 x 1242 |          |          |          |          |          | 1619 x 1010 x 1124 | 2033x 857x 1913 |
|                | Weight                | Net                     | kg     | 85               | 104               | 112      | 114      | 119      | 122      | 138      | 362                | 470             |
| Gross          |                       | kg                      | 123    | 148              | 156               | 158      | 163      | 171      | 158      | 462      | 550                |                 |

# ZXD Family: Digital medium temperature

Technical data at 60 Hz - TF5/TF7

| Family         |                       |                 |            | ZXD              |                   |            |            |            |
|----------------|-----------------------|-----------------|------------|------------------|-------------------|------------|------------|------------|
| Nominal Rating |                       | Horsepower      | HP         | 3                | 4                 | 5          | 6          | 7.5        |
|                |                       |                 |            | ZXD030B0         | ZXD040B0          | ZXD050B0   | ZXD060B0   | ZXD075B0   |
| Model Name     |                       |                 |            | ZXD030BE         | ZXD040BE          | ZXD050BE   | ZXD060BE   | ZXD075BE   |
| Performance    | R22                   | ET/AT/RGT       | °C         | -6.7/32/18.3     |                   |            |            |            |
|                |                       | Capacity        | kW         | 5.93             | 8.46              | 10.84      | 12.79      | 13.99      |
|                |                       | COP             | W/W        | 2.39             | 2.45              | 2.45       | 2.43       | 2.40       |
|                | R404A                 | ET/AT/RGT       | °C         | -10/32/18.3      |                   |            |            |            |
|                |                       | Capacity        | kW         | 6.33             | 8.70              | 10.77      | 12.54      | 13.84      |
|                |                       | COP             | W/W        | 2.23             | 2.18              | 2.11       | 2.12       | 2.08       |
|                | R407F                 | ET/AT/RGT       | °C         | -10/32/18.3      |                   |            |            |            |
|                |                       | Capacity        | kW         | 6.66             | 8.06              | 9.98       | 11.53      | 14.46      |
|                |                       | COP             | W/W        | 2.33             | 2.11              | 2.13       | 2.13       | 2.04       |
|                | Sound Pressure Level  |                 | @1m dB(A)  | 56               | 60                |            |            |            |
| Compressor     | Rated Load Ampere     | R22             | Amp        | -/6.1            | 17.1/9.3          | 20.7/10.7  | 20.7/12.5  | 25.0/14.3  |
|                |                       | TF5/TF7         | R404A      | Amp              | -/6.1             | 16.7/9.6   | 23.7/11.6  | 25.4/12.9  |
|                |                       |                 | R407F      | Amp              | -/6.1             | 16.7/9.6   | 23.7/11.6  | 25.4/12.9  |
|                | Locked Rotor Ampere   | R22             | Amp        | -/38             | 110.0/54.0        | 137.0/64.0 | 156.0/70.0 | 164.0/78.0 |
|                |                       | TF5/TF7         | R404A      | Amp              | -/38              | 110.0/54.0 | 137.0/64.0 | 156.0/70.0 |
|                |                       |                 | R407F      | Amp              | -/38              | 110.0/54.0 | 137.0/64.0 | 156.0/70.0 |
|                | Oil Type              | R22             |            | Mineral          |                   |            |            |            |
|                |                       | R404A           |            | POE              |                   |            |            |            |
|                |                       | R407F           |            | POE              |                   |            |            |            |
|                | Oil Recharge Volume   | R22/R404A/R407F | Liters     | 1.12             | 1.24              | 1.77       | 1.77       | 1.77       |
| Fan Motor      | Number of Fan         |                 | Pieces     | 1                | 2                 | 2          | 2          | 2          |
|                | Diameter              |                 | mm         | 450              | 450               | 450        | 450        | 450        |
|                | Fan Speed             |                 | rpm        | 830              | 933               | 933        | 933        | 933        |
|                | Air Flow              |                 | Total m³/h | 2922             | 6966              | 6966       | 6966       | 6966       |
|                | Total Fan Motor Power |                 | Input W    | 116              | 290               | 290        | 290        | 290        |
| Others         | Oil Separator         | Volume          | Liters     | 0.5              | 0.5               | 0.5        | 0.5        | 0.5        |
|                | Receiver Volume       | R22             | kg         | 5.1              | 7.2               | 7.2        | 7.2        | 7.2        |
|                |                       | R404A           | kg         | 4.4              | 6.3               | 6.3        | 6.3        | 6.3        |
|                |                       | R407F           | kg         | 4.5              | 6.4               | 6.4        | 6.4        | 6.4        |
|                | Pipes                 | Suction OD      | Inch       | 3/4              | 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 840 | 1029 x 424 x 1242 |            |            |            |
|                | Weight                | Net             | kg         | 85               | 109               | 117        | 121        | 127        |
|                |                       | Gross           | kg         | 123              | 148               | 156        | 158        | 163        |

# ZXL Family: Low temperature

Technical data at 50 Hz - PFJ

| Family                                 |                                      |                 |        | ZXL                  |                      |                      |
|----------------------------------------|--------------------------------------|-----------------|--------|----------------------|----------------------|----------------------|
| Nominal Rating      Horsepower      HP |                                      |                 |        | 2                    | 2.5                  | 3                    |
| Model Name                             |                                      |                 |        | ZXL020B0<br>ZXL020BE | ZXL025B0<br>ZXL025BE | ZXL030B0<br>ZXL030BE |
| Performance                            | R22                                  | ET/AT/RGT       | °C     | -32/32/5°C           |                      |                      |
|                                        |                                      | Capacity        | kW     | 1.72                 | 1.91                 | 2.34                 |
|                                        |                                      | COP             | W/W    | 1.2                  | 1.17                 | 1.28                 |
|                                        | R404A                                | ET/AT/RGT       | °C     | -32/32/5°C           |                      |                      |
|                                        |                                      | Capacity        | kW     | 2.11                 | 2.51                 | 2.8                  |
|                                        |                                      | COP             | W/W    | 1.24                 | 1.28                 | 1.29                 |
|                                        | R407F                                | ET/AT/RGT       | °C     | -32/32/5°C           |                      |                      |
|                                        |                                      | Capacity        | kW     | 1.86                 | 2.29                 | 2.6                  |
|                                        |                                      | COP             | W/W    | 0.99                 | 1.02                 | 1.02                 |
|                                        | Sound Pressure Level    @1m    dB(A) |                 |        | 56                   |                      |                      |
| Compressor                             | Rated Load Ampere                    | R22             | Amp    | 12.7                 | 13.3                 | 15.1                 |
|                                        | TF5                                  | R404A           | Amp    | 12.7                 | 13.3                 | 15.1                 |
|                                        |                                      | R407F           | Amp    | 12.7                 | 13.3                 | 15.1                 |
|                                        | Rated Load Ampere                    | R22             | Amp    | 56.6                 | 73.7                 | 82.3                 |
|                                        | TF7                                  | R404A           | Amp    | 56.6                 | 73.7                 | 82.3                 |
|                                        |                                      | R407F           | Amp    | 56.6                 | 73.7                 | 82.3                 |
|                                        | Oil Type                             | R22             |        | Mineral              |                      |                      |
|                                        |                                      | R404A           |        | POE                  |                      |                      |
|                                        | R407F                                |                 | POE    |                      |                      |                      |
|                                        | Oil Recharge Volume                  | R22/R404A/R407F | Liters | 0.56                 | 0.56                 | 0.56                 |
| Fan Motor                              | Number of Fan                        |                 | Pieces | 1                    | 1                    | 1                    |
|                                        | Diameter                             |                 | mm     | 450                  | 450                  | 450                  |
|                                        | Fan Speed                            |                 | rpm    | 830                  | 830                  | 830                  |
|                                        | Air Flow                             | Total           | m³/h   | 2922                 | 2922                 | 2922                 |
|                                        | Total Fan Motor Power                | Input           | W      | 116                  | 116                  | 116                  |
| Others                                 | Oil Separator                        | Volume          | Liters | 0.5                  | 0.5                  | 0.5                  |
|                                        | Receiver Volume                      | R22             | kg     | 5.1                  | 5.1                  | 5.1                  |
|                                        |                                      | R404A           | kg     | 4.4                  | 4.4                  | 4.4                  |
|                                        |                                      | R407F           | kg     | 4.5                  | 4.5                  | 4.5                  |
|                                        | Pipes                                | Suction OD      | Inch   | 3/4                  | 3/4                  | 3/4                  |
|                                        |                                      | Liquid OD       | Inch   | 1/2                  | 1/2                  | 1/2                  |
|                                        | Dimension                            | W x D x H       | mm     | 1029 x 424 x 840     |                      |                      |
| Weight                                 | Net                                  | kg              | 79     | 81                   | 81                   |                      |
|                                        | Gross                                | kg              | 117    | 119                  | 119                  |                      |

# ZXL Family: Low temperature

Technical data at 50 Hz - TFD

| Family         |                       |                 |         | ZXL              |          |          |          |          |                   |          |          |  |
|----------------|-----------------------|-----------------|---------|------------------|----------|----------|----------|----------|-------------------|----------|----------|--|
| Nominal Rating |                       | Horsepower      | HP      | 2                | 2.5      | 3        | 3.5      | 4        | 5                 | 6        | 7.5      |  |
| Model Name     |                       |                 |         | ZXL020B0         | ZXL025B0 | ZXL030B0 | ZXL035B0 | ZXL040B0 | ZXL050B0          | ZXL060B0 | ZXL075B0 |  |
|                |                       |                 |         | ZXL020BE         | ZXL025BE | ZXL030BE | ZXL035BE | ZXL040BE | ZXL050BE          | ZXL060BE | ZXL075BE |  |
| Performance    | R22                   | ET/AT/RGT       | °C      | -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       | °C      | -32/32/5°C       |          |          |          |          |                   |          |          |  |
|                |                       | Capacity        | kW      | 2.11             | 2.51     | 2.8      | 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       | °C      | -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)            | 56       |          |          |          | 60                |          |          |  |
| Compressor     | 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           | m³/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      | 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      |          |  |

# ZXLD Family: Low temperature

Technical data at 50 Hz -TFD

| Family         |                           |            |              | ZXLD              |                    |                   |
|----------------|---------------------------|------------|--------------|-------------------|--------------------|-------------------|
| Nominal Rating |                           | Horsepower | HP           | 9                 | 16                 | 20                |
| Model Name     |                           |            |              | ZXLD090BE         | ZXLD160BE          | ZXLD200BE         |
| Performance    | R404A                     | ET/AT/RGT  | °C           | -32/32/5          | -32/32/5           | -32/32/5          |
|                |                           | Capacity   | kW           | 7.2               | 15.5               | 17.41             |
|                |                           | COP        | W/W          | 1.38              | 1.32               | 1.43              |
|                | Sound Pressure Level      |            | @1m dB(A)    | 62                | 69                 | 72                |
| Compressor     | Rated Load Ampere         |            | R404A Amp    | 14.6              | 14.6 + 14.6        | 14.6 + 14.6       |
|                | Locked Rotor Ampere       |            | R404A Amp    | 102               | 102                | 121               |
|                | Oil Type                  |            | R404A        | POE               | POE                | POE               |
|                | Oil Recharge Volume       |            | Liters       | 1.89              | 1.9 + 1.9          | 1.9 + 1.9         |
| Fan Motor      | Number of Fan             |            | Pieces       | 2                 | 2                  | 3                 |
|                | Diameter                  |            | mm           | 450               | 590                | 600               |
|                | Fan Speed                 |            | rpm          | 830               | 850                | 860               |
|                | Air Flow                  | Total      | m³/h         | 5910              | 19280              | 23400             |
|                | Total Fan Motor Power     |            | Input W      | 246               | 950                | 1350              |
| Others         | Oil Separator             |            | Voume Liters | 0.5               | 2.5                | 3                 |
|                | Receiver Volume (at 32°C) |            | kg           | 6.3               | 17                 | 17                |
|                | Pipes                     | Suction OD | inch         | 7/8"              | 1 3/8"             | 1 3/8"            |
|                |                           | Liquid OD  | inch         | 1/2"              | 3/4"               | 3/4"              |
|                | Dimension                 |            | W x D x H mm | 1029 x 424 x 1242 | 1619 x 1010 x 1124 | 2033 x 857 x 1913 |
|                | Weight                    | Net        | kg           | 138               | 362                | 470               |
|                |                           | Gross      | kg           | 158               | 462                | 550               |

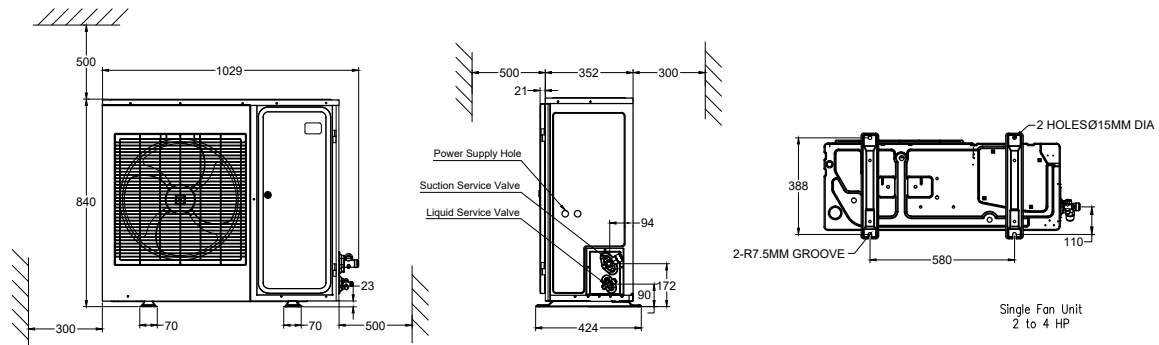
# ZXL Family: Low temperature

## Technical data at 60 Hz - PFV/TF5/TF7

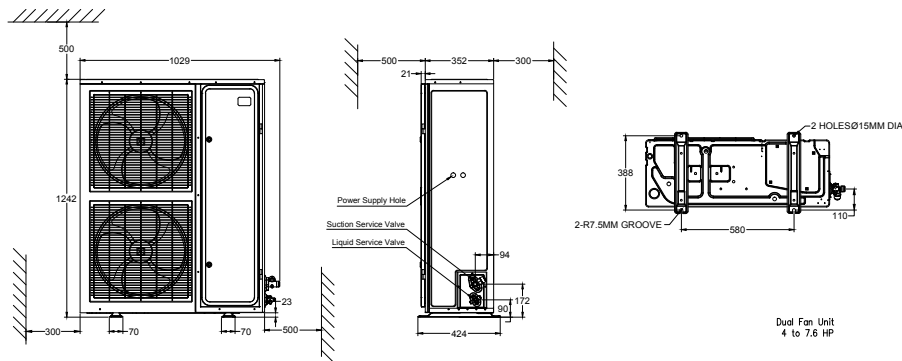
| Family         |                                    |                 |           | ZXL                  |                      |                      |                      |                      |                      |                      |                      |
|----------------|------------------------------------|-----------------|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Nominal Rating |                                    | Horsepower      | HP        | 2                    | 2.5                  | 3                    | 3.5                  | 4                    | 5                    | 6                    | 7.5                  |
| Model Name     |                                    |                 |           | ZXL020B0<br>ZXL020BE | ZXL025B0<br>ZXL025BE | ZXL030B0<br>ZXL030BE | ZXL035B0<br>ZXL035BE | ZXL040B0<br>ZXL040BE | ZXL050B0<br>ZXL050BE | ZXL060B0<br>ZXL060BE | ZXL075B0<br>ZXL075BE |
| Performance    | R22                                | ET/AT/RGT       | °C        | -32/32/5°C           |                      |                      |                      |                      |                      |                      |                      |
|                |                                    | Capacity        | kW        | 2.09                 | 2.69                 | 2.99                 | 3.71                 | 4.72                 | 5.32                 | 6.34                 | 6.81                 |
|                |                                    | COP             | W/W       | 1.14                 | 1.18                 | 1.28                 | 1.34                 | 1.36                 | 1.37                 | 1.27                 | 1.24                 |
|                | R404A                              | ET/AT/RGT       | °C        | -32/32/5°C           |                      |                      |                      |                      |                      |                      |                      |
|                |                                    | Capacity        | kW        | 2.41                 | 2.83                 | 3.54                 | 4.19                 | 5.18                 | 6.26                 | 7.52                 | 7.98                 |
|                |                                    | COP             | W/W       | 1.12                 | 1.15                 | 1.32                 | 1.33                 | 1.33                 | 1.44                 | 1.29                 | 1.32                 |
|                | R407F                              | ET/AT/RGT       | °C        | -32/32/5°C           |                      |                      |                      |                      |                      |                      |                      |
|                |                                    | Capacity        | kW        | 2.28                 | 2.80                 | 3.18                 | 4.42                 | 5.20                 | 5.64                 | 6.93                 | 7.65                 |
|                |                                    | 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) | 56                   |                      |                      |                      | 60                   |                      |                      |                      |
| Compressor     | Rated Load Ampere<br>PFV/TF5/TF7   | R22             | Amp       | -/12.1/5.4           | -/12.6/5.5           | -/12.9/6.9           | -/19.1/7.7           | -/20.0/9.9           | -/21.4/12.6          | -/25.5/14.1          | -/28.9/14.4          |
|                |                                    | R404A           | Amp       | 16.4/12.1/5.6        | -/12.6/6.2           | -/12.6/6.9           | 26.4/19.1/8.6        | 30.4/20.0/9.9        | 34.1/21.4/12.6       | -/25.5/14.1          | -/28.9/14.4          |
|                |                                    | R407F           | Amp       | -/12.1/5.6           | -/12.6/6.2           | -/12.9/6.9           | -/19.1/8.6           | -/20.0/9.9           | -/21.4/12.6          | -/25.5/14.1          | -/28.9/14.4          |
|                | Locked Rotor Ampere<br>PFV/TF5/TF7 | 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       | 68.0/73.0/34.8       | -/73.0/34.8          | -/73.0/38.6          | 137.0/110.0/47.0     | 141.0/110.0/66.0     | 176.0/110.0/73.5     | -/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           | m³/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                  | 0.5                  |
|                | Receiver Volume                    | R22             | kg        | 5.1                  | 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                  | 4.4                  |
|                |                                    | R407F           | kg        | 4.5                  | 4.5                  | 4.5                  | 4.5                  | 6.4                  | 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

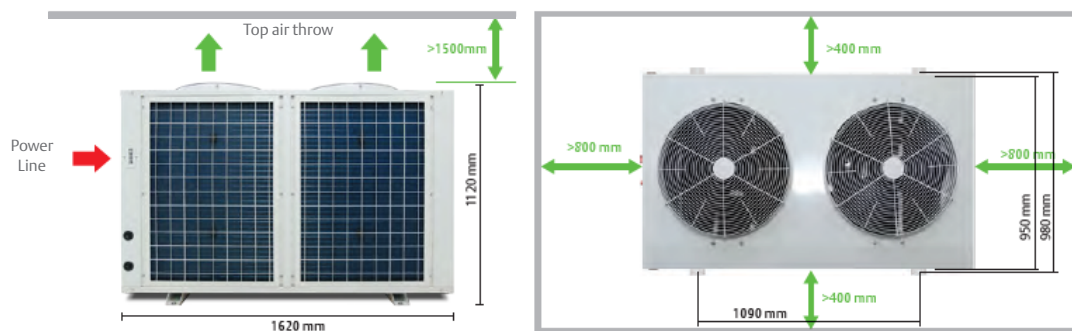
ZX-PFJ (2 HP-4 HP)  
 ZX-TFD (2HP-4HP), ZX-PFV/TF5/TF7 (2HP-3HP), ZXB-TFD (1.5HP-3.5HP)  
 ZXL-PFJ (2HP-3HP)  
 ZXL-TFD (2HP-4HP), ZXL-PFV (2HP, 3.5HP), ZXL-TF5/7 (2HP-3.5HP)  
 ZXD-TFD (3HP), ZXD-TF7(3HP)



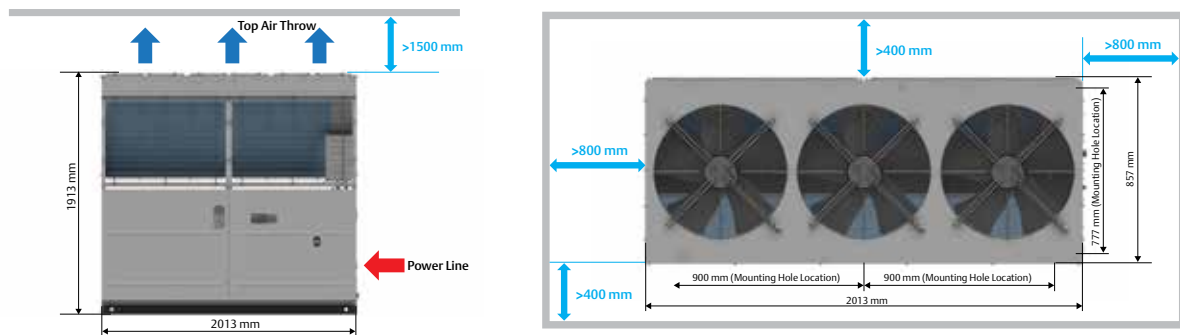
ZX-TFD (5HP-7.6HP), ZX-PFV (4HP-5HP), ZX-TF5/7 (4HP-7.5HP), ZXB-TFD (4HP-6HP)  
 ZXL-TFD (5HP-7.5HP), ZXL-PFV (4HP-5HP), ZXL-TF5/7 (4HP-7.5HP),  
 ZXD-TFD (4HP-9HP), ZXD-TF5/7 (4HP-7.5HP), ZXLD-TFD (9HP)



ZXD-TFD (16HP), ZXLD-TFD (16HP)



ZXD-TFD (20HP), ZXLD-TFD (20HP)



Fixing dimension and distance – Top air throw unit

## Packing information

| Container loading, ZX Platform condensing unit |                       |                     |            |      |              |
|------------------------------------------------|-----------------------|---------------------|------------|------|--------------|
| Family                                         | Model                 | Motor code          | Fan type   | 20FT | 40FT/ 40FT H |
| ZX/ZXB                                         | ZXB015BE              | TFD                 | Single Fan | 40   | 80           |
|                                                | ZXB020BE / ZX020B0(E) | PFJ/TFD/PFV/TF5/TF7 |            | 40   | 80           |
|                                                | ZXB025BE / ZX025B0(E) | PFJ/TFD             |            | 40   | 80           |
|                                                | ZXB030BE / ZX030B0(E) | PFJ/TFD/PFV/TF5/TF7 |            | 40   | 80           |
|                                                | ZXB035BE              | TFD                 |            | 40   | 80           |
|                                                | ZX040B0(E)            | PFJ                 |            | 40   | 80           |
|                                                | ZXB040BE / ZX040B0(E) | TFD/PFV/TF5/TF7     |            | 20   | 40           |
|                                                | ZXB050BE / ZX050B0(E) | TFD/PFV/TF5/TF7     | Dual Fan   | 20   | 40           |
|                                                | ZXB060BE              | TFD                 |            | 20   | 40           |
|                                                | ZX060B0(E)            | TFD/TF5/TF7         |            | 20   | 40           |
|                                                | ZX075B0(E)            | TFD/TF5/TF7         |            | 20   | 40           |
|                                                | ZX076B0(E)            | TFD/TF5/TF7         |            | 20   | 40           |
| ZXD                                            | ZXD030B0(E)           | TFD/TF7             | Single Fan | 40   | 80           |
|                                                | ZXD040B0(E)           | TFD/TF5/TF7         | Dual Fan   | 20   | 40           |
|                                                | ZXD050B0(E)           | TFD/TF5/TF7         |            | 20   | 40           |
|                                                | ZXD060B0(E)           | TFD/TF5/TF7         |            | 20   | 40           |
|                                                | ZXD075B0(E)           | TFD/TF5/TF7         |            | 20   | 40           |
|                                                | ZXD076B0(E)           | TFD/TF5/TF7         |            | 20   | 40           |
|                                                | ZXD090BE              | TFD                 |            | 20   | 40           |
|                                                | ZXD160BE              | TFD                 |            | 6    | 13           |
|                                                | ZXD200BE              | TFD                 |            | 5    | 11           |
| ZXL/ZXLD                                       | ZXL020B0(E)           | PFJ/TFD/TF5/TF7     | Single Fan | 40   | 80           |
|                                                | ZXL025B0(E)           | PFJ/TFD/TF5/TF7     |            | 40   | 80           |
|                                                | ZXL030B0(E)           | PFJ/TFD/TF5/TF7     |            | 40   | 80           |
|                                                | ZXL035B0(E)           | TFD/TF5/TF7         |            | 40   | 80           |
|                                                | ZXL040B0(E)           | TFD                 |            | 40   | 80           |
|                                                | ZXL040B0(E)           | TF5/TF7             | Dual Fan   | 20   | 40           |
|                                                | ZXL050B0(E)           | TFD/TF5/TF7         |            | 20   | 40           |
|                                                | ZXL060B0(E)           | TFD/TF5/TF7         |            | 20   | 40           |
|                                                | ZXL075B0(E)           | TFD/TF5/TF7         |            | 20   | 40           |
|                                                | ZXLD090BE             | TFD                 |            | 20   | 40           |
|                                                | ZXLD160BE             | TFD                 |            | 6    | 13           |
|                                                | ZXLD200BE             | TFD                 |            | 5    | 11           |

## 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

| °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

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

## Notes

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