

# Copeland scroll ZX condensing unit

*For refrigeration applications.*



**COPELAND**



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## **ZX condensing unit for refrigeration applications.**

Copeland 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, Copeland'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 |

## ZX condensing unit features and benefits

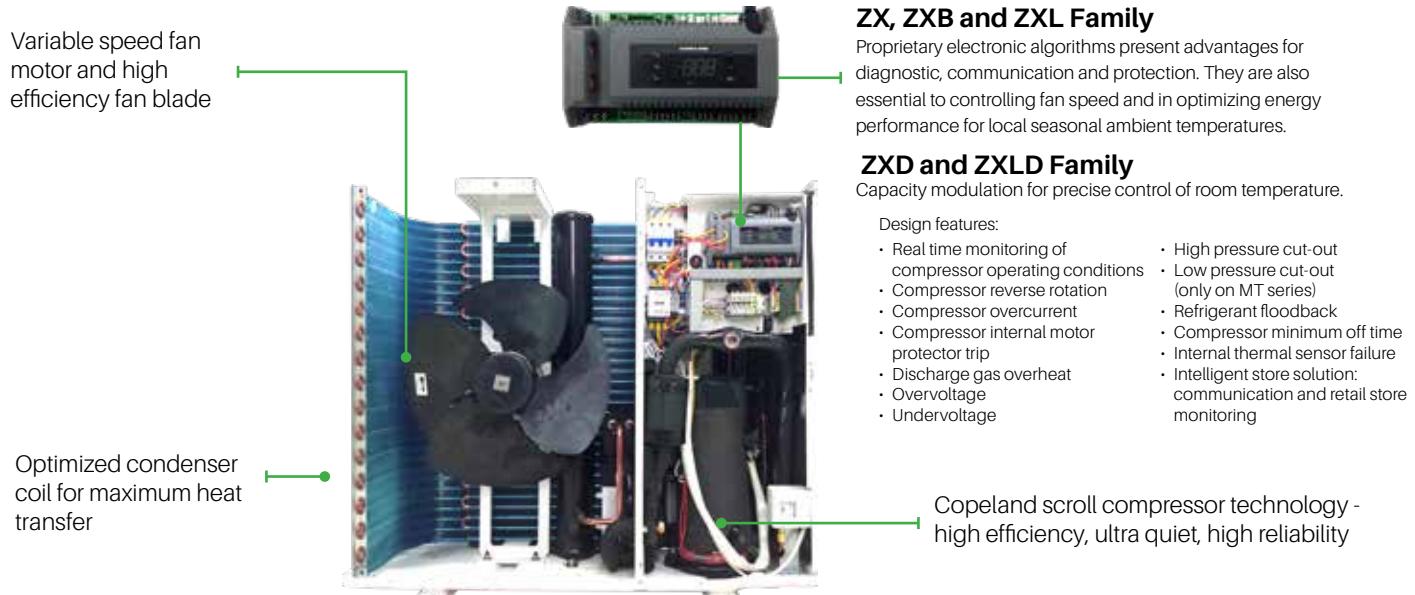


Figure 1. ZX Platform CDU features

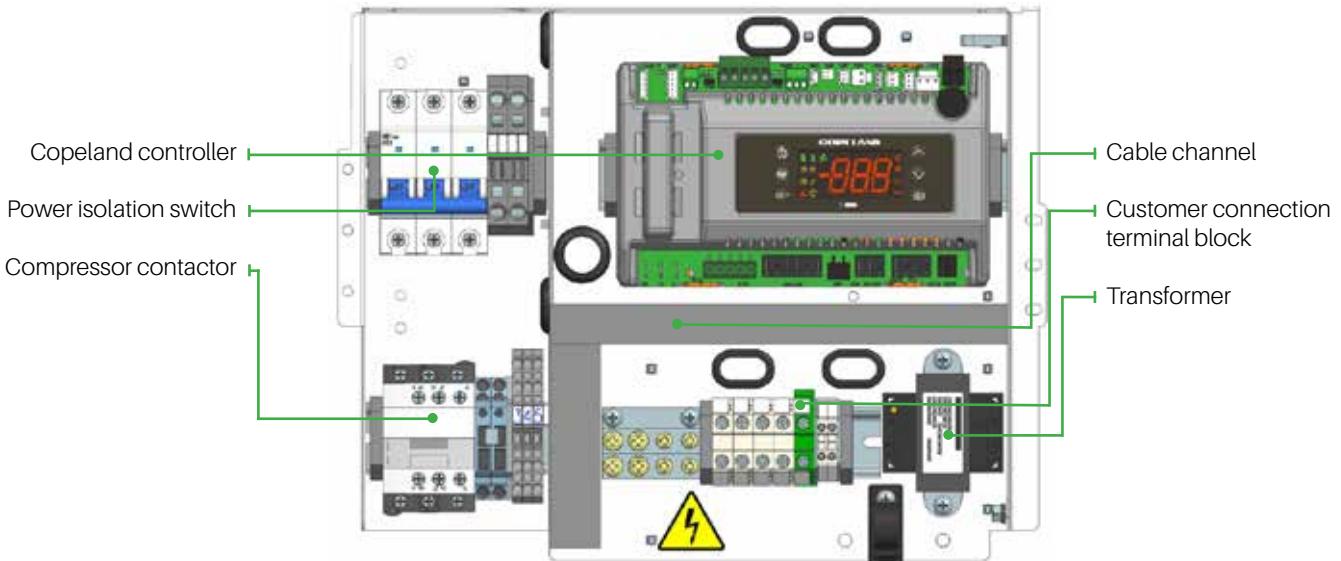


Figure 2. Layout of the control box

Features	Owner/Enterprise Benefits
<b>Intelligent store solution</b>	<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>
<b>Energy saving</b>	<ul style="list-style-type: none"> <li>• Lower operating costs</li> </ul>
<b>Diagnostic protection capabilities</b>	<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>
<b>Slim profile, lighter weight and optional wall mount capability</b>	<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>
<b>Sound improvement</b>	<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								
B = R134a Medium temp								
L = Low temp								
D = Digital medium temp								
LD = Digital low temp								
2 - 20 HP								
Base model			Generation	E = Ester oil O= Mineral oil	-	PFJ = 220V/240V - 1ph - 50 Hz PFV = 208V/230V - 1ph - 60 Hz TFD = 380V/420V - 3ph - 50 Hz TF5=200V/230V - 3ph - 60 Hz TF7 = 380V - 3ph - 60 Hz		Bill of material
						Electrical code		Bill of material

## *Bill of material*

Notes: BOM-4xx stands for chassis with hinged door

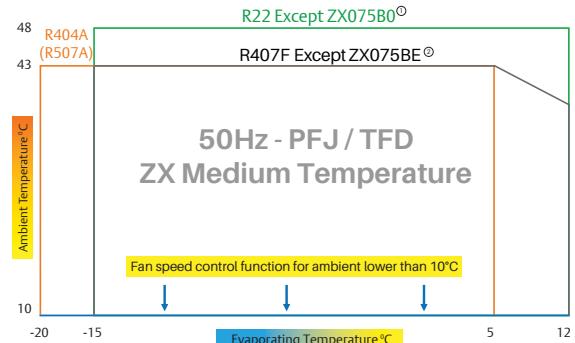
BOM-5xx stands for chassis with front panel

## Operating envelopes

### ZX Family: Medium temperature

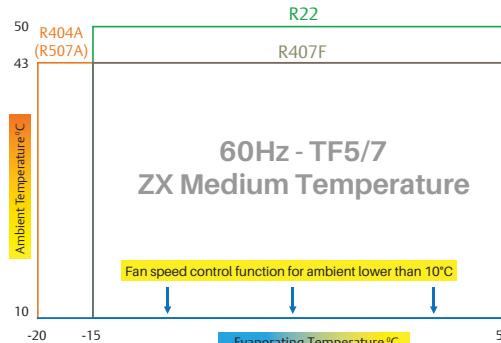
ZX Medium Temperature at 50 Hz - PFJ / TFD

Refrigerant – R404A (R507A), R22, R407F  
Maximum Suction Gas Temperature: 20°C



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

Refrigerant – R404A (R507A), R22, R407F  
Maximum Suction Gas Temperature: 20°C

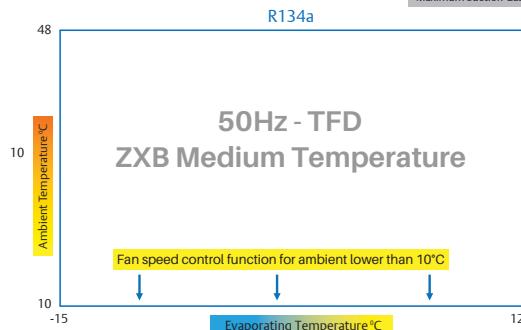


Note: For model ZX075B0 (R22) Max Amb: 43°C, Max Evap: 5°C  
Note: For model ZX075BE (R407F) Max Amb: 43°C, Max Evap: 5°C

### ZXB Family: Medium temperature

ZXB Medium Temperature at 50 Hz - TFD

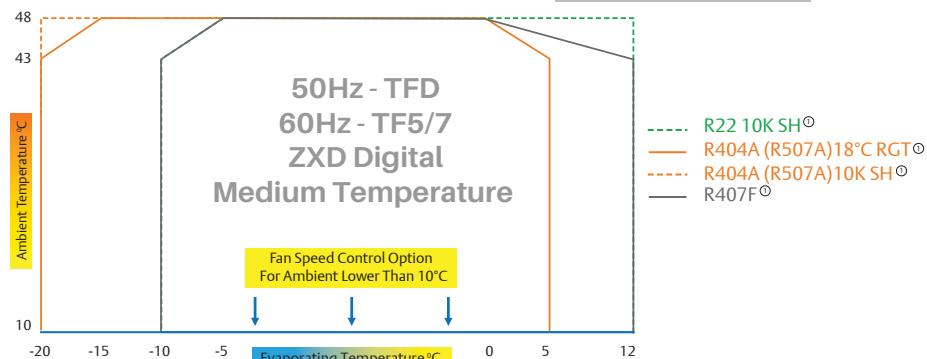
Refrigerant – R134a  
Maximum Suction Gas Temperature: 20 °C



### ZXD Family: Digital medium temperature

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

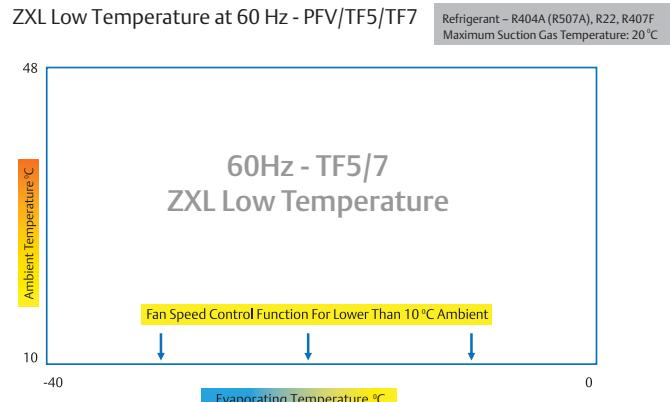
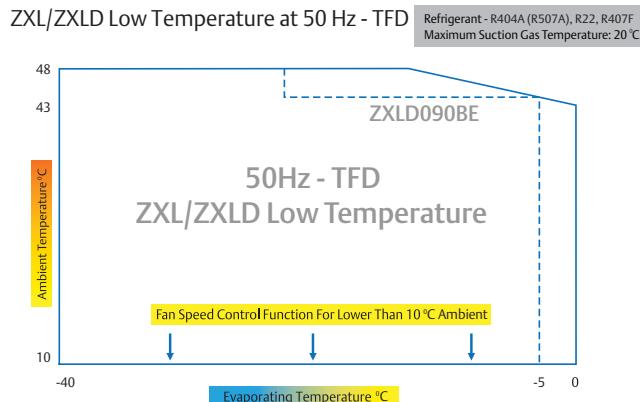
Refrigerant – R404A (R507A), R22, R407F  
Maximum Suction Gas Temperature: 20°C  
(R22 50Hz-TFD is with 10K SH)



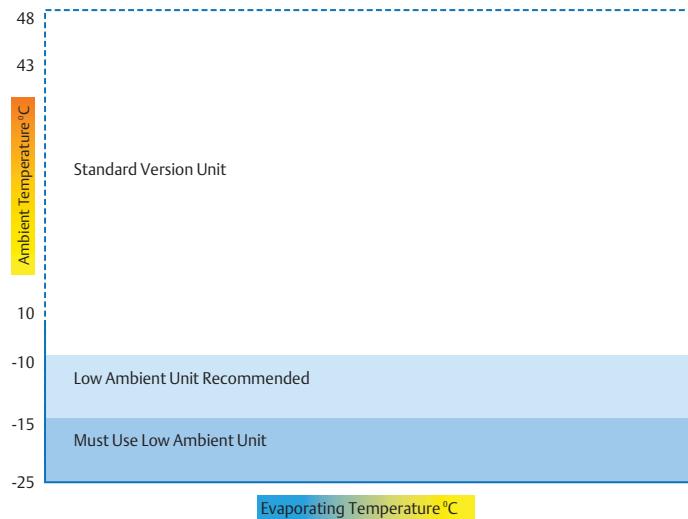
Note: For model ZXD075B0/E Max Amb: 43°C, Max Evap: 5°C

# 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.

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

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.

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

Model	Ambient temperature (°C)	Capacity					Power				
		Evaporating temperature (°C)					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.

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

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.

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

Model	Ambient temperature (°C)	Capacity						Power						
		Evaporating temperature (°C)						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.

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

Model	Ambient temperature (°C)	Capacity							Power						
		Evaporating temperature (°C)							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 <sup>1</sup>	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 <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	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: <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.

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

Model	Ambient temperature (°C)	Capacity					Power				
		Evaporating temperature (°C)					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.

**Capacity and power (kW) at 50 Hz - TFD**

Model	Ambient temperature (°C)	Capacity							Power						
		Evaporating temperature (°C)						Evaporating temperature (°C)							
		-15	-10	-5	0	5	10	12	-15	-10	-5	0	5	10	12
ZXBX015BE	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
ZXBX020BE	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
ZXBX025BE	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
ZXBX030BE	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
ZXBX035BE	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
ZXBX040BE	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
ZXBX050BE	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
ZXBX060BE	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

**Capacity and power (kW) at 50 Hz - TFD**

Model	Ambient temperature (°C)	Capacity						Power					
		Evaporating temperature (°C)						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.

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

Model	Ambient temperature (°C)	Capacity						Power					
		Evaporating temperature (°C)						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.

## Capacity and power (kW) at 50 Hz - TFD

Model	Ambient temperature (°C)	Capacity						Power						
		Evaporating temperature (°C)						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	10.75	12.44	14.22	16.11	18.08	20.16	4.87	5.19	5.53	5.87	6.22	6.56	
	32	10.40	12.08	13.85	15.73	17.70	19.75	5.31	5.67	6.04	6.43	6.82	7.23	
	38	9.82	11.40	13.09	14.86	16.71	18.63	5.93	6.34	6.77	7.23	7.71	8.21	
	43	8.98	10.42	11.97	13.60	15.32	17.10	6.58	7.05	7.54	8.07	8.62	9.19	
	48	7.69	8.98	10.38	11.86	13.40		7.39	7.91	8.47	9.06	9.69		
ZXD100HE	27	13.02	15.47	18.24	21.29	24.56	28.01	5.63	5.96	6.35	6.81	7.36	8.01	
	32	12.24	14.56	17.14	19.94	22.90	25.98	6.26	6.61	6.98	7.40	7.88	8.42	
	38	11.44	13.61	15.96	18.46	21.04	23.66	7.13	7.51	7.88	8.25	8.63	9.05	
	43	10.98	13.03	15.19	17.43	19.70	21.95	7.98	8.38	8.74	9.07	9.39	9.70	
	48	10.82	12.73	14.71	16.70	18.65		8.94	9.36	9.72	10.02	10.27		
ZXD120BE	27	15.94	19.72	23.35	26.67	30.50		8.22	8.49	8.96	9.61	10.40		
	32	14.82	18.47	22.12	25.63	29.07		8.97	9.25	9.69	10.27	10.97		
	38	13.37	16.84	20.50	24.22	27.85		9.96	10.25	10.67	11.20	11.81		
	43	11.74	15.04	18.70	22.57	26.52		10.86	11.19	11.61	12.11	12.66		
	48	9.41	12.54	16.18	20.19	24.45		11.85	12.22	12.66	13.15	13.65		
ZXD160BE	27	21.54	24.95	28.49	32.10	35.71		10.45	10.86	11.27	11.69	12.13		
	32	20.35	23.84	27.53	31.33	35.18		11.45	11.89	12.33	12.78	13.26		
	38	19.48	22.99	26.75	30.68	34.73		12.49	12.99	13.48	13.99	14.53		
	43	18.51	22.15	25.88	29.84	33.97		13.41	13.96	14.52	15.09	15.69		
	48	17.21	20.71	24.34	28.26	32.39		14.52	15.15	15.78	16.43	17.11		
ZXD200BE	27	25.15	30.38	35.68	41.14			13.40	13.71	14.08	15.00			
	32	23.59	29.01	34.48	40.12			15.78	15.89	15.96	16.37			
	38	22.20	27.27	32.79	38.45			18.26	18.56	18.77	18.90			
	43	21.26	26.12	31.53	37.07			20.01	20.59	20.78	20.93			
	48	20.76	25.6	30.76	36.06			21.26	21.86	22.02	22.24			

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.

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

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		
ZXD100HE	27	15.03	17.86	20.90	24.15	27.61	31.28	6.59	7.02	7.49	8.00	8.58	9.24
	32	14.61	17.32	20.19	23.24	26.46	29.85	7.16	7.64	8.14	8.68	9.28	9.95
	38	14.04	16.60	19.28	22.09	25.03	28.09	7.91	8.45	9.00	9.58	10.21	10.90
	43	13.50	15.94	18.47	21.08	23.78	26.58	8.58	9.17	9.77	10.39	11.06	11.78
	48	12.89	15.22	17.59	20.02	22.49		9.29	9.95	10.60	11.27	11.97	

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.

## Capacity and power (kW) at 50 Hz - TFD

Model	Ambient temperature (°C)	Capacity						Power					
		Evaporating temperature (°C)						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			
ZXD100HE	27	16.87	20.66	25.16	30.46	36.67	39.43	5.87	6.48	7.24	8.13	9.16	9.62
	32	15.93	19.24	23.04	27.39	32.33	34.48	6.46	7.03	7.72	8.51	9.43	9.83
	38	14.86	17.75	20.93	24.42	28.22	29.82	7.33	7.88	8.51	9.23	10.04	10.39
	43	14.32	16.99	19.84	22.84	25.97	27.24	8.31	8.87	9.49	10.18	10.93	11.25
	48	13.62	16.08	18.61					9.68	10.27	10.91		

Notes: The rating condition is based on suction superheat of 10K  
 ZXD030BE and ZXD100HE 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.

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

Model	Ambient temperature (°C)	Capacity						Power					
		Evaporating temperature (°C)						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			
ZXD100HE	27	19.33	23.44	28.28	34.01	40.80	43.86	6.92	7.62	8.43	9.37	10.44	10.90
	32	18.76	22.42	26.62	31.47	37.09	39.58	7.53	8.25	9.09	10.06	11.17	11.65
	38	17.95	21.24	24.90	28.99	33.59	35.59	8.38	9.15	10.06	11.12	12.33	12.85
	43	17.40	20.54	23.95	27.66	31.72	33.44	9.30	10.16	11.17	12.36	13.71	14.30
	48	16.29	19.27	22.45				10.55	11.55	12.73			

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

The rating condition is based on suction superheat of 10K

ZXD030BE and ZXD100HE 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.

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

Model	Ambient temperature (°C)	Capacity									Power								
		Evaporating temperature (°C)									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.

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

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	1.34	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		
ZXL025B0	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		
ZXL030B0	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		
ZXL035B0	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		
ZXL040B0	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		
ZXL050B0	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		
ZXL060B0	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		
ZXL075B0	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.

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

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.

## Capacity and power (kW) at 50 Hz - TFD

Model	Ambient temperature (°C)	Capacity									Power								
		Evaporating temperature (°C)									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					
ZXLD100HE	27	7.46	8.12	9.30	10.96	13.03	15.48	18.25	21.30	24.58	4.68	4.88	5.10	5.34	5.62	5.94	6.33	6.79	7.34
	32	6.55	7.34	8.58	10.24	12.25	14.57	17.16	19.96	22.92	4.90	5.25	5.58	5.91	6.24	6.59	6.96	7.38	7.86
	38	5.60	6.54	7.86	9.51	11.44	13.62	15.98	18.47	21.06	5.28	5.81	6.29	6.72	7.11	7.49	7.85	8.22	8.61
	43	5.03	6.09	7.47	9.12	10.99	13.04	15.20	17.45	19.72	5.70	6.39	6.98	7.50	7.95	8.35	8.71	9.05	9.36
	48	4.75	5.93	7.37	9.02	10.83	12.74				6.23	7.07	7.79	8.40	8.91	9.34			
ZXLD120BE	27	8.57	10.66	13.15	16.28	19.95	23.88	27.87	31.65	35.44	6.92	7.58	8.22	8.86	9.51	10.18	10.87	11.61	12.36
	32	8.25	10.33	12.72	15.68	19.09	22.83	26.71	30.47	34.24	7.89	8.64	9.37	10.09	10.79	11.51	12.26	13.02	13.73
	38	7.57	9.50	11.73	14.34	17.44	20.94	24.59	28.18	31.76	8.82	9.78	10.66	11.50	12.35	13.08	13.84	14.64	15.29
	43	7.06	9.03	10.78	13.16	16.08	19.15	22.45	25.57	28.70	9.47	10.39	11.30	12.29	13.29	14.15	14.94	15.72	16.32
	48	6.77	8.68	10.28	12.45	15.60	18.36				9.86	10.92	11.92	12.89	14.20	14.92			
ZXLD160BE	27	11.58	14.24	17.39	21.31	25.84	30.62	35.36	39.77		8.51	9.30	10.06	10.82	11.58	12.37	13.18	14.04	
	32	11.23	13.90	16.93	20.66	24.89	29.46	34.11	38.53		9.66	10.55	11.41	12.26	13.08	13.92	14.79	15.67	
	38	10.37	12.87	15.72	19.01	22.88	27.20	31.61	35.85		10.73	11.87	12.91	13.88	14.88	15.72	16.59	17.51	
	43	9.73	12.39	14.70	17.85	21.70	25.70	29.97	33.96		11.49	12.58	13.65	14.81	15.98	16.97	17.87	18.76	
	48	9.40	12.03	14.20	17.15	21.43	25.15				11.85	13.09	14.26	15.38	16.91	17.73			
ZXLD200BE	27	12.45	16.13	19.75	23.48	27.41	31.60	36.15	41.11		9.15	10.20	11.27	12.30	13.24	14.03	14.77	15.23	
	32	12.19	15.88	19.27	22.82	26.58	30.65	35.13	40.03		10.17	11.18	12.24	13.30	14.30	15.19	15.93	16.44	
	38	11.82	15.50	18.74	22.14	25.77	29.73	34.08	38.95		11.45	12.48	13.59	14.74	15.82	16.88	17.86	18.70	
	43	11.52	14.96	18.10	21.35	25.48	29.20	33.44	38.24		12.11	13.44	14.68	15.94	17.29	18.57	19.84	20.99	
	48	11.42	14.69	17.66	20.82	24.90	28.50				12.53	14.11	15.49	17.12	18.73	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.

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

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	1.59	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		
ZXLD100HE <sup>1</sup>	27	5.80	7.84	10.08	12.53	15.18	18.05	21.12	24.40	27.90	4.86	5.35	5.80	6.23	6.66	7.10	7.57	8.09	8.67		
	32	5.51	7.57	9.80	12.19	14.76	17.49	20.40	23.48	26.73	5.19	5.75	6.27	6.76	7.24	7.72	8.23	8.77	9.38		
	38	5.07	7.17	9.38	11.72	14.18	16.77	19.48	22.32	25.28	5.63	6.28	6.88	7.45	7.99	8.54	9.09	9.68	10.32		
	43	4.62	6.75	8.96	11.26	13.64	16.10	18.66	21.30	24.03	6.01	6.75	7.43	8.06	8.67	9.27	9.87	10.50	11.17		
	48	4.10	6.26	8.47	10.72	13.03	15.38				6.40	7.24	8.00	8.71	9.39	10.05					

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.

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

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					
ZXLD100HE <sup>1</sup>	27	5.90	6.50	7.58	9.12	11.17	13.74	16.88	20.67	25.18	4.43	4.44	4.53	4.71	4.98	5.36	5.85	6.47	7.21		
	32	5.25	5.99	7.15	8.71	10.70	13.10	15.94	19.25	23.06	4.87	4.96	5.11	5.31	5.60	5.97	6.44	7.01	7.70		
	38	4.31	5.21	6.47	8.08	10.02	12.29	14.87	17.76	20.95	5.48	5.69	5.91	6.16	6.47	6.85	7.31	7.86	8.49		
	43	3.61	4.65	6.00	7.67	9.63	11.86	14.33	17.00	19.86	6.14	6.46	6.75	7.06	7.40	7.81	8.29	8.84	9.46		
	48	2.96	4.08	5.49	7.18	9.13	11.29				7.03	7.48	7.87	8.25	8.66	9.12					

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.

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

Model	Ambient temperature (°C)	Capacity						Power						
		Evaporating temperature (°C)						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	
ZXL025BE <sup>1</sup>	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	
ZXL030BE <sup>1</sup>	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	
ZXL060BE <sup>1</sup>	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	
ZXL075BE <sup>1</sup>	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	
ZXLD100HE <sup>1</sup>	27	4.59	6.27	8.21	10.43	13.01	16.01	4.61	4.87	5.15	5.49	5.90	6.40	
	32	4.41	6.18	8.16	10.38	12.89	15.73	5.17	5.44	5.73	6.08	6.49	7.00	
	38	3.90	5.71	7.73	9.96	12.42	15.14	5.85	6.15	6.47	6.83	7.27	7.81	
	43	3.32	5.15	7.21	9.47	11.95	14.65	6.48	6.83	7.18	7.59	8.07	8.67	
	48	2.56	4.30	6.31	8.54	10.98	13.63	7.23	7.66	8.08	8.56	9.12	9.82	

Notes: <sup>1</sup>Available 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 ZX020BE	ZX025B0 ZX025BE	ZX030B0 ZX030BE	ZX040B0 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 (R507A)	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					
		R404A (R507A)	Amp	13.2	14.6	16.4	20.0
		R407F					
	Locked Rotor Ampere	R22					
		R404A (R507A)	Amp	58.0	61.0	82.0	114.0
	Oil Type	R407F					
		R22		MINERAL			
Fan Motor	Oil Type	R404A (R507A)		POE			
		R407F		POE			
	Oil Recharge Volume	R22/R404A (R507A)/R407F	Liters	1.18	1.33	1.83	
	Number of Fan	Pieces		1			
	Diameter	mm		450			
Others	Fan Speed	rpm		933			
	Air Flow	Total	m³/h	3483			
	Total Fan Motor Power	Input	W	116			
	Oil Separator	Volume	Liters	0.5			
	Receiver Volume		Liters	4.0			
Others	Pipes	Suction OD		3/4			
		Liquid OD	Inch	1/2			
	Dimension	W x D x H	mm	1029 x 424 x 840			
	Weight	Net		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 ZX020BE	ZX030B0 ZX030BE	ZX040B0 ZX040BE	ZX050B0 ZX050BE	ZX060B0 ZX060BE	ZX075B0 ZX075BE	ZX076B0 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 (R507A)	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	
Compressor	Sound Pressure Level	@1m	dB(A)	56	56	56	60	60	60	60	
	Rated Load Ampere	R22		4.3	5.7	7.4	8.9	11.5	12.0	12.0	
		R404A (R507A)	Amp	5.0	6.1	7.5	9.6	11.5	11.8	11.8	
		R407F		5.0	6.1	7.5	9.6	11.5	11.8	11.8	
	Locked Rotor Ampere	R22		MINERAL							
		R404A (R507A)		POE							
		R407F		POE							
	Oil Recharge Volume	R22/R404A (R507A)/R407F	Liters	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							
	Fan Speed	rpm		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							
	Receiver Volume		Liters	4.0	4.0	4.0	6.0	6.0	6.0	6.0	
	Pipes	Suction OD	Inch	3/4	3/4	7/8	7/8	7/8	7/8	7/8	
		Liquid OD		1/2							
	Dimension	W x D x H	mm	1029 x 424 x 840	1029 x 424 x 840	1029 x 424 x 840	1029 x 424 x 1242	1029 x 424 x 1242	1029 x 424 x 1242	1029 x 424 x 1242	
	Weight	Net	kg	76	79	100	108	112	118	121	
		Gross		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 ZX020BE	ZX030B0 ZX030BE	ZX040B0 ZX040BE	ZX050B0 ZX050BE	ZX060B0 ZX060BE	ZX075B0 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 (R507A)	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
Compressor	Sound Pressure Level	@1m	dB(A)	56	56	60	60	60	60
	Rated Load Ampere	R22		-/8.9/5.0	-/11.4/7.5	-/15.0/9.3	-/20.7/10.7	-/20.7/10.7	-/25.0/12.1
		R404A (R507A)	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		-/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		-/55.0/27.0	-/77.0/39.0	-/115.0/54.0	-/128.0/64.0	-/156.0/70.0	-/164.0/100.0
		R404A (R507A)	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		-/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 (R507A)		POE					
		R407F		POE					
	Oil Recharge Volume	R22/R404A (R507A)/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					
	Fan Speed	rpm		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					
	Receiver Volume		Liters	4.0	4.0	6.0	6.0	6.0	6.0
	Pipes	Suction OD	Inch	3/4	3/4	7/8	7/8	7/8	7/8
		Liquid OD		1/2					
	Dimension	W x D x H	mm	1029 x 424 x 840	1029 x 424 x 840	1029 x 424 x 1242	1029 x 424 x 1242	1029 x 424 x 1242	1029 x 424 x 1242
	Weight	Net	kg	76	79	100	108	112	112
		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	6	
Model Name			ZXB015BE	ZXB020BE	ZXB025BE	ZXB030BE	ZXB035BE	ZXB040BE	ZXB050BE	ZXB060BE	
Performance	ET/AT/RGT	°C	-6.7/32/18.3								
	R134a	Capacity	kW	3.20	3.76	3.92	4.96	6.61	7.23	8.52	
		COP	W/W	2.73	3.01	2.74	2.86	2.88	2.94	2.91	
Compressor	Sound Pressure Level	@1m	dB(A)	56					60		
	Rated Load Ampere	R134a	Amp	5.0	5.6	5.6	7.1	7.1	7.9	10.0	
	Locked Rotor Ampere	R134a	Amp	39.2	39.2	39.2	51.5	51.5	51.5	74.0	
	Oil Type	R134a		POE							
	Oil Recharge Volume	R134a		0.56	0.56	0.56	1.24	1.24	1.24	1.77	1.77
Fan Motor	Oil Initial Volume	R134a	Liters	0.74	0.74	0.74	1.36	1.36	1.36	1.89	1.89
	Number of Fan	Pieces		1	1	1	1	1	2	2	2
	Diameter	mm		450							
	Fan Speed	rpm		830							
	Air Flow	Total	m³/h	2922	2922	2922	2922	2922	5910	5910	5910
Others	Fan Motor Power	Input	W	116	116	116	116	116	246	246	246
	Oil Separator	Volume	Liters	0.5							
	Receiver Volume		Liters	4.0	4.0	4.0	4.0	4.0	6.0	6.0	6.0
	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							
	Dimension	W x D x H	mm	1029 x 424 x 840	1029 x 424 x 1242	1029 x 424 x 1242	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	Horse-power HP		3	4	5	6	7.5	7.6	9	10	12	16	20	
Model Name			ZXD030B0	ZXD040B0	ZXD050B0	ZXD060B0	ZXD075B0	ZXD076B0	/	/	/	/	/	
			ZXD030BE	ZXD040BE	ZXD050BE	ZXD060BE	ZXD075BE	ZXD076BE	ZXD090BE	ZXD100HE	ZXD120BE	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 (R507A)	ET/AT/ RGT	°C	-6.7/32/18.3	-6.7/32/18.3	-6.7/32/18.3	-6.7/32/18.3	-6.7/32/18.3	-6.7/32/18.3	-7/32/18	-6.7/32/18.3	-6.7/32/18.3	-6.7/32/18.3	
		Capacity	kW	5.82	8.30	10.70	11.80	13.20	13.46	15.00	18.80	24.22	29.81	
		COP	W/W	2.45	2.47	2.43	2.41	2.43	2.49	2.39	2.60	2.41	2.37	
	R407F	ET/AT/ RGT	°C	-6.7/32/18.3	-6.7/32/18.3	-6.7/32/18.3	-6.7/32/18.3	-6.7/32/18.3	-6.7/32/18.3	-7/32/18	-6.7/32/18.3	-6.7/32/18.3	-6.7/32/18.3	
		Capacity	kW	6.04	8.28	10.34	11.26	13.63	13.90	/	17.86	/	/	
		COP	W/W	2.47	2.71	2.73	2.46	2.40	2.50	/	2.63	/	/	
	Sound Pressure Level	@1m	dB(A)	56	60	60	60	60	60	62	62	65	69	
	R22			7.4	7.9	10.0	10.0	12.1	12.1	/	/	/	/	
Compressor	Rated Load Ampere	R404A (R507A)	Amp	7.4	7.7	10.4	12.4	12.4	12.4	12.7	14.6	9.6+10.1	11.1 + 11.1	
	R407F			7.4	7.9	10.0	12.1	12.1	12.1	/	14.6	/	/	
	Locked Rotor Ampere	R404A (R507A)	Amp	40.0	48.0	64.0	74.0	100.0	100.0	/	/	/	/	
				40.0	48.0	64.0	74.0	100.0	100.0	100.0	102.0	74.0	74.0	
				40.0	48.0	64.0	74.0	100.0	100.0	/	102.0	/	/	
	Oil Type	R22	R404A (R507A)	R407F	MINERAL									
					POE									
					POE									
	Oil Recharge Volume	R22	R404A (R507A)	Liters	1.12	1.24	1.77	1.77	1.77	1.77	1.89	1.89	1.9+1.8	1.9 + 1.9
					R407F									
Fan Motor	Number of Fan	Pieces		1	2	2	2	2	2	2	2	2	3	
	Diameter	mm		450	450	450	450	450	450	450	560	590	590	
	Fan Speed	rpm		830	830	830	830	830	830	830	900	850	850	
	Air Flow	Total	m³/h	2922	5910	5910	5910	5910	5910	5910	12000	19280	19280	
	Total Fan Motor Power	Input	W	116	246	246	246	246	246	246	500	950	950	
Others	Oil Separator	Volume	Liters	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2.5	2.5	3
	Receiver volume		Liters	4.0	6.0	6.0	6.0	6.0	6.0	6.0	12.0	18.7	18.7	18.7
	Pipes	Suction OD	Inch	3/4	7/8	7/8	7/8	7/8	7/8	7/8	1 1/8	1 3/8	1 3/8	1 3/8
		Liquid OD	Inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	3/4
	Dimension	WxD xH	mm	1029 x 424 x 840	1029 x 424 x 1242	1029 x 424 x 1603	1185 x 492 x 1603	1619 x 1010 x 1124	1619 x 1010 x 1124	2033 x 857 x 1913				
	Weight	Net	kg	85	104	112	114	119	122	135	165	357	362	550
		Gross	kg	123	148	156	158	163	171	182	220	457	462	600

## ZXD Family: Digital medium temperature

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

Family			ZXD					
Nominal Rating	Horsepower	HP	3	4	5	6	7.5	10
Model Name			ZXD030B0	ZXD040B0	ZXD050B0	ZXD060B0	ZXD075B0	/
			ZXD030BE	ZXD040BE	ZXD050BE	ZXD060BE	ZXD075BE	ZXD100HE
Performance	R22	ET/AT/RGT °C	-6.7/32/18.3	-6.7/32/18.3	-6.7/32/18.3	-6.7/32/18.3	-6.7/32/18.3	
	R22	Capacity kW	5.93	8.46	10.84	12.79	13.99	/
	R22	COP W/W	2.39	2.45	2.45	2.43	2.40	
	R404A (R507A)	ET/AT/RGT °C				-10/32/18.3		
	R404A (R507A)	Capacity kW	6.33	8.70	10.77	12.54	13.84	20.19
	R404A (R507A)	COP W/W	2.23	2.18	2.11	2.12	2.08	2.49
	R407F	ET/AT/RGT °C				-10/32/18.3		
	R407F	Capacity kW	6.66	8.06	9.98	11.53	14.46	18.76
	R407F	COP W/W	2.33	2.11	2.13	2.13	2.04	2.63
	Sound Pressure Level	@1m dB(A)	56	60	60	60	60	62
Compressor	R22	Amp		17.1/9.3	20.7/10.7	20.7/12.5	25.0/14.3	/
	Rated Load Ampere	R404A (R507A)	-/6.1	16.7/9.6	23.7/11.6	25.4/12.9	30.0/14.6	31.5/15.1
	R22	R404A (R507A)		16.7/9.6	23.7/11.6	25.4/12.9	30.0/14.6	31.5/15.1
	Locked Rotor Ampere	R407F						/
	R22							
	Locked Rotor Ampere	R407F	-/38	110.0/54.0	137.0/64.0	156.0/70.0	164.0/78.0	224.0/119.6
	R22							
	Oil Type	R404A (R507A)						
	R22							
	R407F							
Fan Motor	R22							
	Oil Recharge Volume	R404A (R507A)	Liters	1.12	1.24	1.77	1.77	1.77
	R22							/
	R404A (R507A)			1.12	1.24	1.77	1.77	1.77
	R22							
	R407F			1.12	1.24	1.77	1.77	1.89
Others	Number of Fan	Pieces	1	2	2	2	2	2
	Diameter	mm	450	450	450	450	450	560
	Fan Speed	rpm	830	933	933	933	933	900
	Air Flow	Total m³/h	2922	6966	6966	6966	6966	12000
	Total Fan Motor Power	Input W	116	290	290	290	290	500
Others	Oil Separator	Volume Liters				0.5		
	Receiver Volume	Liters	3.0	6.0	6.0	6.0	6.0	12.0
	Pipes	Suction OD Inch	3/4	7/8	7/8	7/8	7/8	1 1/8
		Liquid OD						
	Dimension	W x D x H mm	1029 x 424 x 840	1029 x 424 x 1242	1185 x 492 x 1603			
	Weight	Net kg	85	109	117	121	127	170
		Gross kg	123	148	156	158	163	225

## ZXL Family: Low temperature

### Technical data at 50 Hz - PFJ

Family				ZXL				
Nominal Rating		Horsepower	HP	2	2.5	3		
Model Name				ZXL020B0	ZXL025B0	ZXL030B0		
				ZXL020BE	ZXL025BE	ZXL030BE		
Performance	R22	ET/AT/RGT	°C	-32/32/5				
		Capacity	kW	1.72	1.91	2.34		
		COP	W/W	1.2	1.17	1.28		
	R404A (R507A)	ET/AT/RGT	°C	-32/32/5				
		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				
		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		12.7	13.3	15.1		
		R404A (R507A)	Amp					
		R407F						
	Locked Rotor Ampere	R22		56.6	73.7	82.3		
		R404A (R507A)	Amp					
		R407F						
Fan Motor	Oil Type	R22		MINERAL				
		R404A (R507A)		POE				
		R407F		POE				
	Oil Recharge Volume	R22/R404A (R507A)/R407F	Liters	0.56				
	Number of Fan	Pieces		1				
Others	Diameter	mm		450				
	Fan Speed	rpm		830				
	Air Flow	Total	m³/h	2922				
	Total Fan Motor Power	Input	W	116				
	Oil Separator	Volume	Liters	0.5				
Others	Receiver Volume		Liters	4.0				
	Pipes	Suction OD	Inch	3/4				
		Liquid OD		1/2				
	Dimension	W x D x H	mm	1029 x 424 x 840				
	Weight	Net	kg	79	81	81		
		Gross		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							
		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 (R507A)	ET/AT/RGT	°C	-32/32/5							
		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							
		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	R22			5.4	5.5	5.7	7.4	8.1	8.8	11.1	12.1
	Rated Load Ampere	R404A (R507A)	Amp	5.6	6.2	6.0	8.3	8.6	10.0	11.1	14.6
	R407F			5.6	6.2	6.5	8.3	8.6	10.0	11.1	14.6
	Locked Rotor Ampere	R22		39.2	39.2	39.2	51.5	51.5	51.5	74.0	101.0
	R404A (R507A)			MINERAL							
	R407F			POE							
Fan Motor	Oil Recharge Volume	R22/R404A (R507A)/R407F	Liters	0.56	0.56	0.56	1.24	1.24	1.24	1.77	1.77
	Number of Fan		Pieces	1	1	1	1	1	2	2	2
	Diameter		mm	450							
	Fan Speed		rpm	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							
	Receiver Volume		Liters	4.0	4.0	4.0	4.0	4.0	6.0	6.0	6.0
	Pipes	Suction OD	Inch	3/4	3/4	3/4	7/8	7/8	7/8	7/8	7/8
		Liquid OD		1/2							
	Dimension	W x D x H	mm	1029 x 424 x 840	1029 x 424 x 1242	1029 x 424 x 1242	1029 x 424 x 1242				
	Weight	Net	kg	79	81	81	93	93	106	116	121
		Gross		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	10	12	16	20	
Model Name			ZXLD090BE	ZXLD100HE	ZXLD120BE	ZXLD160BE	ZXLD200BE	
Performance	ET/AT/RGT		°C	-32/32/5				
	R404A (R507A)	Capacity		7.24	8.03	11.76	15.72	17.91
		COP	W/W	1.38	1.47	1.30	1.42	1.52
	Sound Pressure Level	@1m	dB(A)	62	62	69	69	72
Compressor	Rated Load Ampere	R404A (R507A)	Amp	14.6	14.6	11.1+11.1	14.6 + 14.6	14.6 + 14.6
	Locked Rotor Ampere	R404A (R507A)	Amp	102	102	74	102	121
	Oil Type	R404A (R507A)		POE				
	Oil Recharge Volume		Liters	1.89	1.89	1.9 + 1.9	1.9 + 1.9	1.9 + 1.9
Fan Motor	Number of Fan	Pieces	2	2	2	2	3	
	Diameter		mm	450	560	590	590	600
	Fan Speed		rpm	830	900	850	850	860
	Air Flow	Total	m³/h	5910	12000	19280	19280	23400
	Total Fan Motor Power	Input	W	246	500	950	950	1350
Others	Oil Separator	Volume	Liters	0.5	0.5	2.5	2.5	3
	Receiver Volume		Liters	6.0	12.0	18.7	18.7	18.7
	Pipes	Suction OD	Inch	7/8	1 1/8	1 3/8	1 3/8	1 3/8
		Liquid OD		1/2	1/2	3/4	3/4	3/4
	Dimension	W x D x H	mm	1029 x 424 x 1242	1185 x 492 x 1603	1619 x 1010 x 1124	1619 x 1010 x 1124	2033 x 857 x 1913
	Weight	Net	kg	138	170	362	362	470
		Gross		158	225	462	462	550

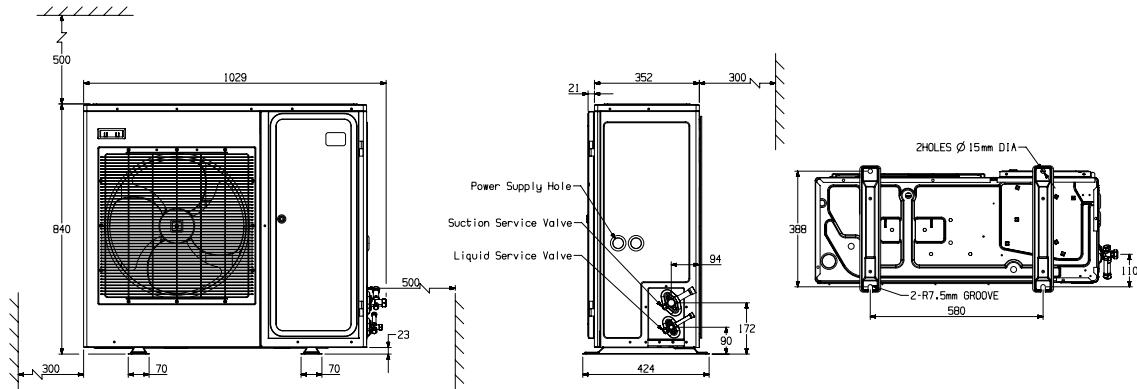
## ZXL Family: Low temperature

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

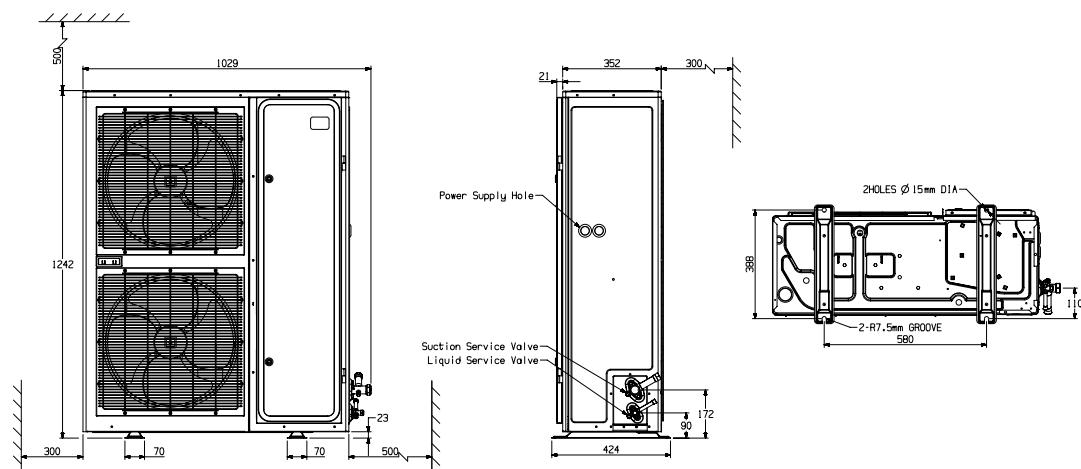
Family				ZXL								
Nominal Rating		Horsepower	HP	2	2.5	3	3.5	4	5	6	7.5	10
Model Name		ZXL020B0 ZXL020BE	ZXL025B0 ZXL025BE	ZXL030B0 ZXL030BE	ZXL035B0 ZXL035BE	ZXL040B0 ZXL040BE	ZXL050B0 ZXL050BE	ZXL060B0 ZXL060BE	ZXL075B0 ZXL075BE	ZXL075B0 ZXL075BE	/	ZXLD100HE
Performance	R22	ET/AT/RGT	°C	-32/32/5°C								
		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 (R507A)	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	8.89
		COP	W/W	1.12	1.15	1.32	1.33	1.33	1.44	1.29	1.32	1.46
	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	7.34
		COP	W/W	0.99	1.02	1.02	1.34	1.29	1.26	1.27	1.29	1.31
	Sound Pressure Level	@1m	dB(A)	56	56	56	56	60	60	60	60	62
Compressor	Rated Load Ampere	R22	-/- 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	/	
			16.4/ 12.1/ 5.6	-/- 12.6/ 6.2	-/- 12.6/ 6.9	-/- 19.1/ 8.6	-/- 20.0/ 9.9	-/- 21.4/ 12.6	-/- 25.5/ 14.1	-/- 28.9/ 14.4	/	
			-/- 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	R404A (R507A)	-/- 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	/	
			68.0/ 73.0/ 34.8	-/- 73.0/ 34.8	-/- 73.0/ 38.6	-/- 137.0/ 47.0	-/- 141.0/ 110.0	-/- 176.0/ 110.0	-/- 186.6/ 73.5	-/- 191.0/ 94.3	-/- 191.0/ 94.3	31.5/ 15.1
			-/- 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	-/- 191.0/ 94.3	31.5/ 15.1
	Oil Type	R22	MINERAL									
			POE									
			POE									
Fan Motor	Oil Recharge Volume	R22	0.56	0.56	0.56	1.24	1.24	1.24	1.77	1.77	/	
			0.56	0.56	0.56	1.24	1.24	1.24	1.77	1.77	1.77	1.89
			0.56	0.56	0.56	1.24	1.24	1.24	1.77	1.77	1.77	1.89
	Number of Fan	Pieces	1	1	1	1	2	2	2	2	2	2
	Diameter	mm	450	450	450	450	450	450	450	450	450	560
Others	Fan Speed	rpm	933	933	933	933	933	933	933	933	933	900
	Air Flow	Total	m³/h	3483	3483	3483	3483	6966	6966	6966	6966	12000
	Total Fan Motor Power	Input	W	145	145	145	145	290	290	290	290	500
	Oil Separator	Volume	Liters	0.5								
	Receiver Volume		Liters	4.0	4.0	4.0	4.0	6.0	6.0	6.0	6.0	12.0
Others	Pipes	Suction OD Liquid OD	Inch	3/4	3/4	3/4	7/8	7/8	7/8	7/8	7/8	1 1/8"
				1/2								
	Dimension	W x D x H	mm	1029 x 424 x 840	1029 x 424 x 840	1029 x 424 x 840	1029 x 424 x 840	1029 x 424 x 1242	1029 x 424 x 1242	1029 x 424 x 1242	1029 x 424 x 1242	1185 x 492 x 1603
	Weight	Net Gross	kg	79 117	81 119	81 119	93 131	93 143	106 150	116 165	121 170	175 230

## Dimensional drawings

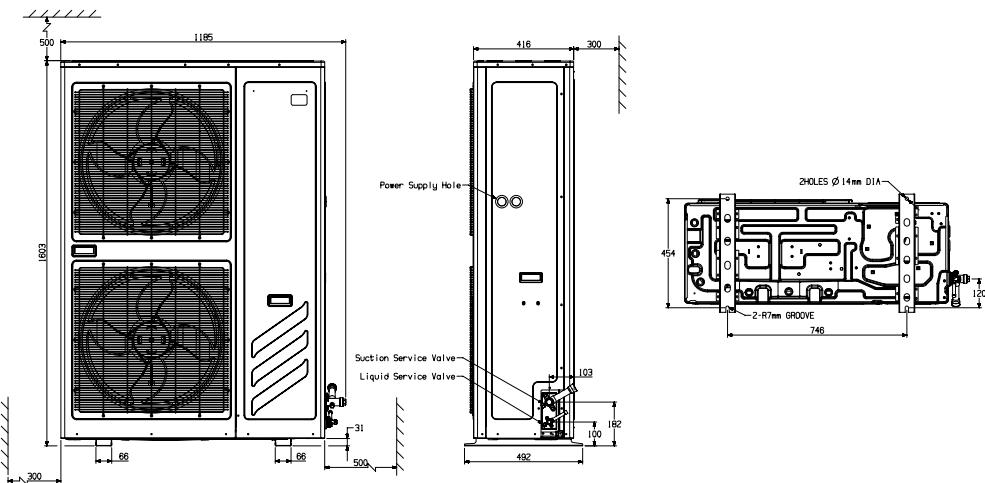
ZX-PFJ (2 HP-4 HP)  
 ZX-TFD (2HP-4HP), ZX-PFV/TF5/TF7 (2HP-3HP), ZXB-TFD (1.5HP-3.5HP)  
 ZXL-PFJ (2HP-3HP)  
 ZXL-TFD (2HP-4HP), ZXL-PFV (2HP, 3.5HP), ZXL-TF5/7 (2HP-3.5HP)  
 ZXD-TFD (3HP), ZXD-TF7(3HP)



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)

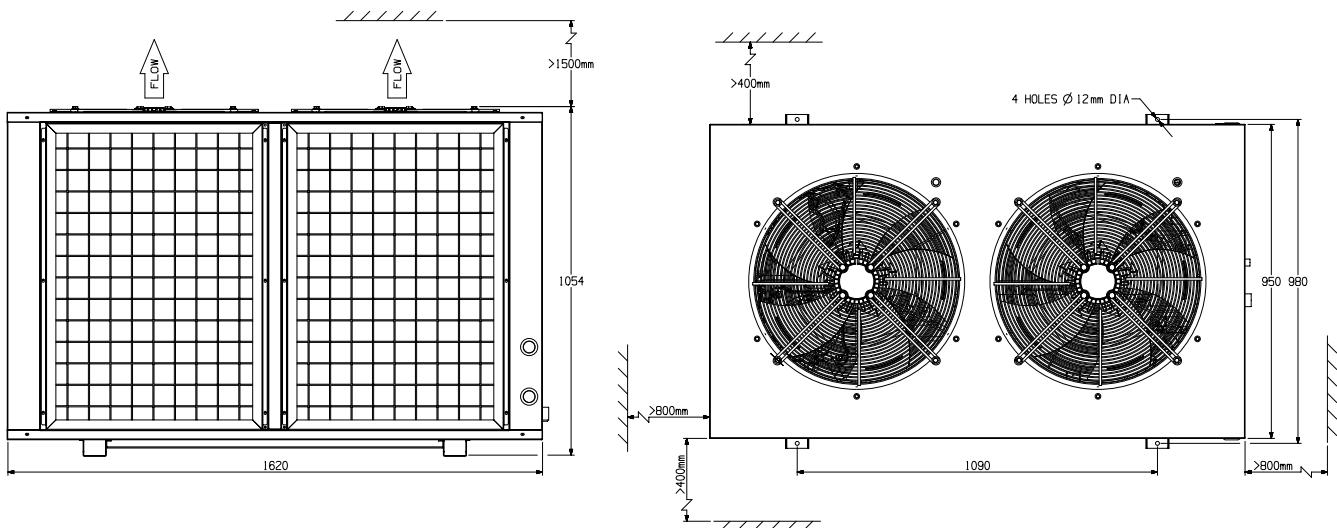


ZXD/ZXLD-TFD (10HP), ZXD/ZXLD-TF5/7 (10HP)

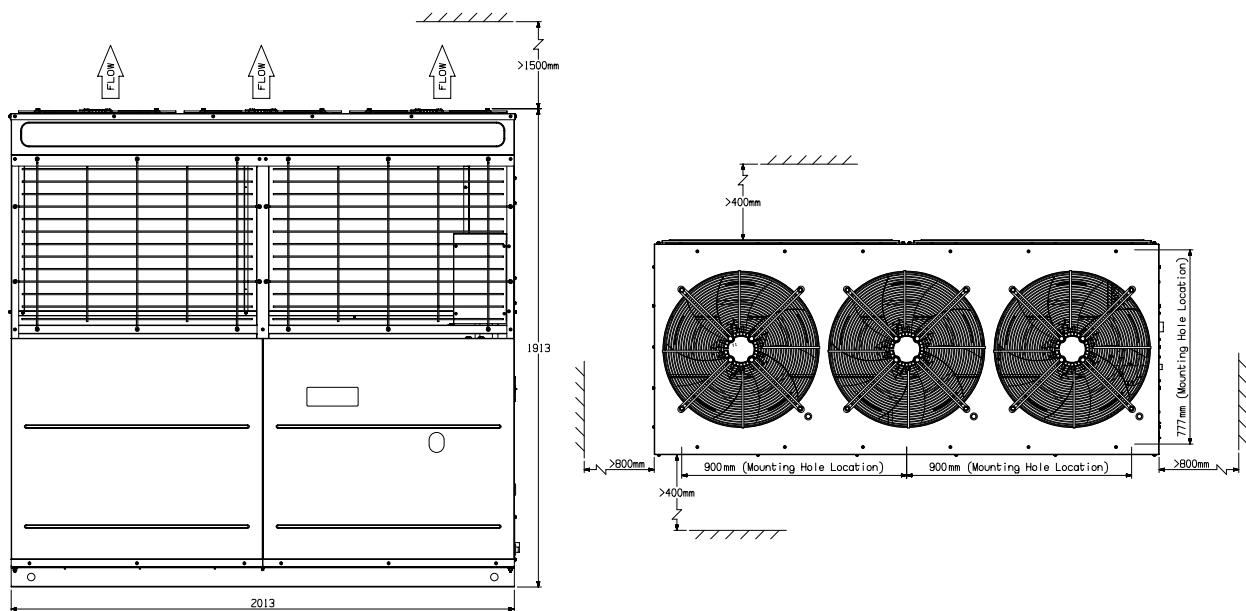


## Dimensional drawings

ZXD-TFD (12HP-16HP), ZXLD-TFD (12HP-16HP)



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



## 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						
	ZXB025BE / ZX025B0(E)	PFJ/TFD						
	ZXB030BE / ZX030B0(E)	PFJ/TFD/PFV/TF5/TF7						
	ZXB035BE	TFD						
	ZX040B0(E)	PFJ						
	ZXB040BE / ZX040B0(E)	TFD/PFV/TF5/TF7						
	ZXB050BE / ZX050B0(E)							
	ZXB060BE	TFD	Dual Fan	20	40			
	ZX060B0(E)	TFD/TF5/TF7						
ZXD	ZX075B0(E)							
	ZX076B0(E)							
	ZXD030B0(E)	TFD/TF7	Single Fan	40	80			
	ZXD040B0(E)	TFD/TF5/TF7	Dual Fan	20	40			
	ZXD050B0(E)							
	ZXD060B0(E)							
	ZXD075B0(E)							
	ZXD076B0(E)							
	ZXD090BE	TFD						
ZXL/ZXLD	ZXD100HE	TFD/TF5/TF7	Large Dual Fan	10	20			
	ZXD120BE	TFD	Top air throw	6	13			
	ZXD160BE							
	ZXD200BE			5 <sup>1</sup>	11 <sup>1</sup>			
	ZXL020B0(E)	PFJ/TFD/TF5/TF7	Single Fan	40	80			
	ZXL025B0(E)							
	ZXL030B0(E)							
	ZXL035B0(E)	TFD/TF5/TF7						
	ZXL040B0(E)	TFD						
	ZXL040B0(E)	TF5/TF7	Dual Fan	20	40			
	ZXL050B0(E)	TFD/TF5/TF7						
	ZXL060B0(E)							
	ZXL075B0(E)							
ZXLD	ZXLD090BE	TFD						
	ZXLD100HE	TFD/TF5/TF7	Large Dual Fan	10	20			
	ZXLD120BE	TFD	Top air throw	6	13			
	ZXLD160BE							
	ZXLD200BE			5 <sup>1</sup>	11 <sup>1</sup>			

Note: <sup>1</sup>High type container only

## 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 Vapor	R404A Liquid	R407F Vapor	R407F Liquid	R407A Vapor	R407A Liquid	R407C Vapor	R407C Liquid	R448A Vapor	R448A Liquid	R449A Vapor	R449A Liquid	R507A	°F
-45.6	-0.63	-0.21	0.00	0.03	-0.26	0.03	-0.30	0.03	-0.37	-0.09	-0.25	0.03	-0.25	0.03	0.06	-50.0
-44.4	-0.61	-0.16	0.05	0.09	-0.22	0.08	-0.26	0.03	-0.33	-0.04	-0.20	0.08	-0.20	0.08	0.12	-48.0
-43.3	-0.59	-0.12	0.11	0.15	-0.17	0.14	-0.22	0.08	-0.29	0.01	-0.16	0.14	-0.16	0.14	0.18	-46.0
-42.2	-0.56	-0.06	0.17	0.21	-0.12	0.20	-0.17	0.14	-0.25	0.07	-0.11	0.21	-0.11	0.21	0.24	-44.0
-41.1	-0.53	-0.01	0.23	0.27	-0.07	0.27	-0.12	0.21	-0.20	0.13	-0.06	0.27	-0.06	0.27	0.30	-42.0
-40.0	-0.50	0.04	0.30	0.34	-0.02	0.34	-0.07	0.27	-0.16	0.19	0.00	0.34	0.00	0.34	0.37	-40.0
-38.9	-0.47	0.10	0.37	0.41	0.04	0.41	-0.01	0.34	-0.11	0.26	0.05	0.41	0.05	0.41	0.44	-38.0
-37.8	-0.44	0.15	0.43	0.48	0.10	0.48	0.04	0.41	-0.06	0.32	0.11	0.48	0.11	0.48	0.52	-36.0
-36.7	-0.41	0.21	0.51	0.55	0.16	0.56	0.10	0.48	0.00	0.39	0.17	0.56	0.17	0.56	0.59	-34.0
-35.6	-0.37	0.28	0.59	0.63	0.22	0.64	0.16	0.56	0.06	0.46	0.24	0.63	0.24	0.63	0.68	-32.0
-34.4	-0.33	0.34	0.66	0.72	0.29	0.72	0.23	0.63	0.11	0.53	0.30	0.72	0.30	0.72	0.75	-30.0
-33.3	-0.29	0.41	0.74	0.80	0.36	0.80	0.29	0.72	0.17	0.61	0.37	0.80	0.37	0.80	0.84	-28.0
-32.2	-0.25	0.48	0.83	0.88	0.43	0.89	0.36	0.80	0.23	0.69	0.44	0.89	0.44	0.89	0.93	-26.0
-31.1	-0.21	0.55	0.92	0.97	0.51	0.98	0.43	0.89	0.30	0.77	0.52	0.98	0.52	0.98	1.02	-24.0
-30.0	-0.17	0.63	1.01	1.06	0.59	1.08	0.51	0.98	0.37	0.86	0.60	1.07	0.60	1.07	1.12	-22.0
-28.9	-0.13	0.70	1.10	1.16	0.67	1.18	0.59	1.08	0.45	0.94	0.68	1.17	0.68	1.17	1.21	-20.0
-27.8	-0.08	0.79	1.20	1.26	0.75	1.28	0.67	1.17	0.52	1.04	0.76	1.27	0.76	1.27	1.32	-18.0
-26.7	-0.03	0.87	1.30	1.36	0.84	1.39	0.75	1.28	0.60	1.14	0.85	1.38	0.85	1.38	1.42	-16.0
-25.6	0.02	0.96	1.41	1.47	0.93	1.50	0.84	1.38	0.68	1.23	0.94	1.49	0.94	1.49	1.53	-14.0
-24.4	0.08	1.05	1.52	1.58	1.03	1.61	0.93	1.49	0.77	1.34	1.03	1.60	1.03	1.60	1.64	-12.0
-23.3	0.13	1.14	1.63	1.70	1.13	1.73	1.03	1.60	0.85	1.44	1.13	1.72	1.13	1.72	1.76	-10.0
-22.2	0.19	1.23	1.74	1.81	1.23	1.85	1.12	1.72	0.94	1.55	1.23	1.84	1.23	1.84	1.88	-8.0
-21.1	0.25	1.34	1.86	1.93	1.34	1.98	1.23	1.83	1.03	1.67	1.34	1.96	1.34	1.96	2.00	-6.0
-20.0	0.32	1.44	1.99	2.06	1.45	2.11	1.33	1.96	1.13	1.79	1.45	2.09	1.45	2.09	2.13	-4.0
-18.9	0.38	1.54	2.12	2.19	1.56	2.24	1.44	2.09	1.23	1.91	1.56	2.22	1.56	2.22	2.26	-2.0
-17.8	0.45	1.66	2.25	2.32	1.68	2.38	1.55	2.22	1.34	2.03	1.67	2.36	1.67	2.36	2.40	0.0
-16.7	0.52	1.77	2.39	2.45	1.80	2.52	1.67	2.36	1.45	2.17	1.79	2.50	1.79	2.50	2.54	2.0
-15.6	0.59	1.89	2.52	2.59	1.93	2.67	1.79	2.50	1.56	2.30	1.92	2.64	1.92	2.64	2.68	4.0
-14.4	0.66	2.01	2.67	2.75	2.06	2.82	1.92	2.65	1.68	2.43	2.05	2.79	2.05	2.79	2.83	6.0
-13.3	0.74	2.14	2.82	2.90	2.20	2.98	2.05	2.80	1.80	2.58	2.18	2.95	2.18	2.95	2.99	8.0
-12.2	0.82	2.26	2.97	3.06	2.34	3.14	2.18	2.95	1.92	2.72	2.32	3.11	2.32	3.11	3.15	10.0
-11.1	0.90	2.40	3.13	3.21	2.48	3.31	2.32	3.11	2.05	2.88	2.46	3.27	2.46	3.27	3.31	12.0
-10.0	0.99	2.54	3.30	3.38	2.63	3.48	2.46	3.28	2.19	3.03	2.61	3.44	2.61	3.44	3.48	14.0
-8.9	1.08	2.68	3.46	3.55	2.79	3.66	2.61	3.45	2.32	3.19	2.76	3.62	2.76	3.62	3.66	16.0
-7.8	1.17	2.82	3.63	3.72	2.94	3.84	2.76	3.62	2.46	3.36	2.91	3.80	2.91	3.80	3.83	18.0
-6.7	1.27	2.97	3.81	3.90	3.11	4.03	2.92	3.80	2.61	3.53	3.07	3.98	3.07	3.98	4.01	20.0
-5.6	1.37	3.12	4.00	4.08	3.28	4.22	3.08	3.99	2.77	3.71	3.24	4.17	3.24	4.17	4.21	22.0
-4.4	1.47	3.28	4.19	4.28	3.45	4.42	3.25	4.18	2.92	3.89	3.41	4.37	3.41	4.37	4.40	24.0
-3.3	1.58	3.45	4.38	4.48	3.63	4.63	3.42	4.37	3.08	4.08	3.58	4.57	3.58	4.57	4.60	26.0
-2.2	1.69	3.61	4.58	4.68	3.82	4.84	3.60	4.57	3.25	4.27	3.77	4.78	3.77	4.78	4.80	28.0
-1.1	1.80	3.79	4.78	4.88	4.01	5.05	3.78	4.78	3.42	4.46	3.95	4.99	3.95	4.99	5.01	30.0
0.0	1.92	3.97	4.99	5.09	4.21	5.28	3.97	4.99	3.59	4.67	4.14	5.21	4.14	5.21	5.23	32.0
1.1	2.03	4.15	5.21	5.30	4.41	5.51	4.17	5.21	3.78	4.88	4.34	5.43	4.34	5.43	5.45	34.0
2.2	2.16	4.34	5.43	5.52	4.62	5.74	4.37	5.43	3.97	5.09	4.55	5.66	4.55	5.66	5.68	36.0
3.3	2.28	4.53	5.66	5.75	4.84	5.98	4.57	5.67	4.16	5.31	4.75	5.90	4.75	5.90	5.91	38.0
4.4	2.41	4.73	5.89	5.98	5.06	6.23	4.79	5.90	4.36	5.53	4.97	6.14	4.97	6.14	6.15	40.0
5.6	2.55	4.93	6.12	6.24	5.29	6.48	5.00	6.14	4.56	5.77	5.19	6.39	5.19	6.39	6.39	42.0
6.7	2.69	5.14	6.37	6.49	5.52	6.74	5.23	6.40	4.77	6.00	5.42	6.64	5.42	6.64	6.65	44.0
7.8	2.83	5.35	6.62	6.74	5.76	7.01	5.46	6.66	4.99	6.25	5.65	6.90	5.65	6.90	6.90	46.0
8.9	2.98	5.57	6.88	6.99	6.01	7.28	5.70	6.92	5.21	6.50	5.89	7.17	5.89	7.17	7.17	48.0

## Pressure temperature chart at sea level

°C	R-134a	R22	R404A Vapor	R404A Liquid	R407F Vapor	R407F Liquid	R407A Vapor	R407A Liquid	R407C Vapor	R407C Liquid	R448A Vapor	R448A Liquid	R449A Vapor	R449A Liquid	R507A	°F
10.0	3.13	5.80	7.14	7.26	6.26	7.57	5.94	7.19	5.43	6.75	6.14	7.45	6.14	7.45	7.44	50.0
11.1	3.29	6.03	7.41	7.53	6.52	7.85	6.19	7.46	5.67	7.01	6.39	7.73	6.39	7.73	7.72	52.0
12.2	3.45	6.26	7.70	7.80	6.79	8.15	6.44	7.74	5.91	7.28	6.65	8.02	6.65	8.02	8.01	54.0
13.3	3.61	6.51	7.98	8.09	7.07	8.45	6.71	8.03	6.16	7.56	6.92	8.31	6.92	8.31	8.30	56.0
14.4	3.79	6.76	8.27	8.38	7.35	8.76	6.98	8.33	6.41	7.84	7.19	8.61	7.19	8.61	8.59	58.0
15.6	3.96	7.01	8.57	8.70	7.64	9.08	7.26	8.63	6.68	8.13	7.47	8.92	7.47	8.92	8.90	60.0
16.7	4.14	7.27	8.88	9.00	7.94	9.40	7.54	8.94	6.94	8.43	7.76	9.24	7.76	9.24	9.21	62.0
17.8	4.32	7.54	9.19	9.31	8.24	9.74	7.83	9.26	7.22	8.74	8.05	9.56	8.05	9.56	9.54	64.0
18.9	4.51	7.81	9.50	9.63	8.55	10.08	8.13	9.59	7.50	9.05	8.36	9.90	8.36	9.90	9.86	66.0
20.0	4.70	8.09	9.83	9.96	8.88	10.43	8.44	9.92	7.79	9.37	8.67	10.24	8.67	10.24	10.20	68.0
21.1	4.90	8.37	10.17	10.29	9.20	10.78	8.76	10.26	8.09	9.69	8.99	10.58	8.99	10.58	10.54	70.0
22.2	5.11	8.67	10.51	10.63	9.54	11.15	9.08	10.61	8.39	10.03	9.31	10.94	9.31	10.94	10.89	72.0
23.3	5.32	8.97	10.86	10.98	9.89	11.52	9.41	10.97	8.70	10.37	9.65	11.30	9.65	11.30	11.25	74.0
24.4	5.53	9.28	11.22	11.34	10.24	11.90	9.75	11.34	9.03	10.72	9.99	11.67	9.99	11.67	11.62	76.0
25.6	5.75	9.59	11.59	11.73	10.60	12.29	10.10	11.71	9.35	11.07	10.34	12.05	10.34	12.05	11.99	78.0
26.7	5.98	9.90	11.96	12.10	10.98	12.69	10.46	12.09	9.69	11.43	10.70	12.44	10.70	12.44	12.38	80.0
27.8	6.21	10.23	12.34	12.48	11.36	13.10	10.82	12.48	10.03	11.81	11.06	12.84	11.06	12.84	12.77	82.0
28.9	6.45	10.57	12.73	12.87	11.75	13.52	11.19	12.88	10.39	12.19	11.44	13.24	11.44	13.24	13.17	84.0
30.0	6.69	10.91	13.13	13.27	12.15	13.94	11.57	13.28	10.75	12.58	11.82	13.66	11.82	13.66	13.58	86.0
31.1	6.94	11.26	13.54	13.68	12.55	14.38	11.97	13.70	11.12	12.98	12.22	14.08	12.22	14.08	13.99	88.0
32.2	7.19	11.61	13.96	14.09	12.97	14.82	12.37	14.12	11.50	13.39	12.62	14.51	12.62	14.51	14.42	90.0
33.3	7.46	11.98	14.39	14.51	13.40	15.27	12.78	14.56	11.88	13.80	13.03	14.95	13.03	14.95	14.86	92.0
34.4	7.72	12.35	14.82	14.94	13.84	15.74	13.20	15.01	12.28	14.23	13.45	15.40	13.45	15.40	15.30	94.0
35.6	7.99	12.73	15.26	15.42	14.29	16.21	13.63	15.46	12.69	14.66	13.88	15.86	13.88	15.86	15.76	96.0
36.7	8.28	13.12	15.72	15.87	14.74	16.69	14.06	15.92	13.10	15.10	14.33	16.33	14.33	16.33	16.22	98.0
37.8	8.57	13.51	16.18	16.33	15.21	17.19	14.51	16.39	13.52	15.55	14.78	16.80	14.78	16.80	16.70	100.0
38.9	8.86	13.92	16.66	16.80	15.69	17.69	14.97	16.87	13.96	16.01	15.24	17.29	15.24	17.29	17.18	102.0
40.0	9.15	14.32	17.14	17.28	16.18	18.20	15.44	17.36	14.41	16.48	15.71	17.79	15.71	17.79	17.67	104.0
41.1	9.46	14.74	17.63	17.77	16.68	18.72	15.92	17.86	14.86	16.96	16.19	18.29	16.19	18.29	18.17	106.0
42.2	9.77	15.17	18.13	18.27	17.19	19.26	16.41	18.37	15.32	17.45	16.68	18.81	16.68	18.81	18.69	108.0
43.3	10.10	15.61	18.65	18.77	17.71	19.80	16.91	18.89	15.79	17.95	17.18	19.34	17.18	19.34	19.21	110.0
44.4	10.42	16.06	19.17	19.29	18.25	20.36	17.43	19.42	16.28	18.46	17.70	19.87	17.70	19.87	19.74	112.0
45.6	10.76	16.51	19.70	19.87	18.79	20.92	17.94	19.97	16.78	18.97	18.22	20.42	18.22	20.42	20.29	114.0
46.7	11.10	16.97	20.25	20.41	19.35	21.50	18.48	20.52	17.28	19.50	18.76	20.98	18.76	20.98	20.85	116.0
47.8	11.45	17.45	20.81	20.96	19.92	22.09	19.03	21.08	17.80	20.04	19.30	21.55	19.30	21.55	21.41	118.0
48.9	11.81	17.93	21.37	21.52	20.50	22.69	19.59	21.66	18.33	20.59	19.86	22.13	19.86	22.13	21.99	120.0
50.0	12.17	18.42	21.95	22.09	21.10	23.30	20.16	22.23	18.87	21.15	20.43	22.72	20.43	22.72	22.59	122.0
51.1	12.54	18.92	22.54	22.68	21.71	23.92	20.74	22.83	19.42	21.72	21.02	23.32	21.02	23.32	23.19	124.0
52.2	12.92	19.43	23.14	23.27	22.33	24.55	21.33	23.44	19.99	22.30	21.61	23.93	21.61	23.93	23.80	126.0
53.3	13.31	19.94	23.75	23.88	22.96	25.20	21.94	24.06	20.56	22.90	22.22	24.55	22.22	24.55	24.43	128.0
54.4	13.70	20.48	24.38	24.50	23.61	25.86	22.56	24.68	21.14	23.50	22.84	25.18	22.84	25.18	25.07	130.0
55.6	14.11	21.01	25.02	25.18	24.27	26.53	23.19	25.32	21.75	24.12	23.48	25.83	23.48	25.83	25.72	132.0
56.7	14.52	21.56	25.67	25.83	24.94	27.21	23.84	25.98	22.36	24.74	24.13	26.49	24.13	26.49	26.39	134.0
57.8	14.94	22.12	26.34	26.48	25.63	27.90	24.50	26.64	22.99	25.38	24.79	27.16	24.79	27.16	27.06	136.0
58.9	15.37	22.69	27.01	27.15	26.34	28.61	25.18	27.32	23.63	26.03	25.46	27.84	25.46	27.84	27.75	138.0
60.0	15.81	23.27	27.70	27.84	27.06	29.33	25.87	28.01	24.28	26.69	26.15	28.53	26.15	28.53	28.46	140.0
61.1	16.26	23.86	28.41	28.53	27.79	30.07	26.57	28.71	24.94	27.36	26.86	29.23	26.86	29.23	29.18	142.0
62.2	16.71	24.46	29.13	29.24	28.54	30.81	27.29	29.43	25.63	28.04	27.58	29.95	27.58	29.95	29.92	144.0
63.3	17.17	25.07	29.87	29.96	29.31	31.57	28.02	30.15	26.32	28.74	28.31	30.68	28.31	30.68	30.67	146.0
64.4	17.65	25.69	30.61	30.70	30.09	32.35	28.77	30.90	27.03	29.45	29.06	31.42	29.06	31.42	31.43	148.0
65.6	18.13	26.32	31.39	31.53	30.89	33.13	29.54	31.65	27.76	30.17	29.83	32.18	29.83	32.18	32.22	150.0



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