

Copeland scroll ZX condensing unit

For refrigeration applications





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

Features and benefits	04
Nomenclature	05
Bill of material	05
CoreSense for ZX Platform condensing unit	06
Operating envelopes	07
ZX Family: Medium temperature	07
ZXB Family: Medium temperature	07
ZXD Family: Digital medium temperature	07
ZXL/ZXLD Family: Low temperature	08
Performance data	
ZX Family: Medium temperature - R22	09
ZX Family: Medium temperature - R404A (R507A)	11
ZX Family: Medium temperature - R407F	13
ZXB Family: Medium temperature - R134a	15
ZXD Family: Digital medium temperature - R22	16
ZXD Family: Digital medium temperature - R404A (R507A)	18
ZXD Family: Digital medium temperature - R407F	20
ZXL Family: Low temperature - R22	22
ZXL Family: Low temperature - R404A (R507A)	24
ZXLD Family: Low temperature R404A (R507A)	25
ZXL Family: Low temperature - R404A (R507A)	26
ZXL Family: Low temperature - R407F	27
Technical data	
ZX Family: Medium temperature at 50 Hz - PFJ	29
ZX Family: Medium temperature at 50 Hz - TFD	30
ZX Family: Medium temperature at 60 Hz - PFV/ TF5/TF7	31
ZXB Family: Medium temperature at 50 Hz - TFD	32
ZXD Family: Digital medium temperature at 50 Hz - TFD	33
ZXD Family: Digital medium temperature at 60 Hz - TF5/TF7	34
ZXL Family: Low temperature at 50 Hz - PFJ	35
ZXL Family: Low temperature at 50 Hz - TFD	36
ZXLD Family: Low temperature at 50 Hz - TFD	37
ZXL Family: Low temperature at 60 Hz - PFV/ TF5/TF7	38
Dimensional drawings	39
Packing information	40
Conversion chart	40
Pressure temperature chart at sea level	41
Contact lists	43

ZX CONDENSING UNIT

Variable speed fan motor and high efficiency fan blade

Optimized condenser coil for maximum heat transfer

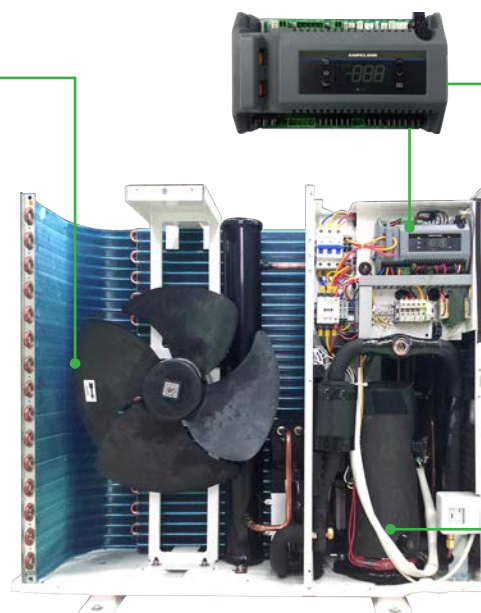


Figure 1. ZX Platform CDU features

ZX, ZXB and ZXL Family

Proprietary electronic algorithms present advantages for diagnostic, communication and protection. They are also essential to controlling fan speed and in optimizing energy performance for local seasonal ambient temperatures.

ZXD, ZXLD Family

Capacity modulation for precise control of room temperature.

Design features:

- Real time monitoring of compressor operating conditions
- Compressor reverse rotation
- Compressor overcurrent
- Compressor internal motor protector trip
- Discharge gas overheat
- Overvoltage
- Undervoltage
- High pressure cut-out
- Low pressure cut-out (only on MT series)
- Refrigerant floodback
- Compressor minimum off time
- Internal thermal sensor failure
- Intelligent store solution: communication and retail store monitoring

Copeland scroll compressor technology - high efficiency, ultra quiet, high reliability

Features	Owner/Enterprise Benefits
Intelligent store solution	<ul style="list-style-type: none"> • Retail store monitoring • Enhanced energy savings • High-end food safety through real time monitoring
Energy saving	<ul style="list-style-type: none"> • Lower operating costs
Diagnostic protection capabilities	<ul style="list-style-type: none"> • Greatly reduces the chance of nuisance service calls • Extends the life of your equipment • Reduces potential service costs • Keeps equipment operating at their original performance levels to ensure optimum energy efficiency and temperature control • Serves as a guide to what the contractor needs to fix in case of malfunction
Slim profile, lighter weight and optional wall mount capability	<ul style="list-style-type: none"> • Lower installation costs • Enhances the appearance of your enterprise site • Avoids more costly solutions arising from potential location issues
Sound improvement	<ul style="list-style-type: none"> • Creates a more comfortable environment for guests • Beneficial for regions with noise ordinances

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	Generation	E = Ester oil O = Mineral oil		PFJ = 220V/240V - 1ph - 50 Hz PFV = 208V/230V - 1ph - 60Hz TFD = 380V/420V - 3ph - 50 Hz TF5=200V/230V - 3ph - 60 Hz TF7 = 380 - 3ph - 60 Hz		Bill of material
Base model						Electrical code		Bill of material

Bill of material

CDU Family BOM	ZX				ZXB		ZXL			ZXD 2-9HP			ZXD 12-16HP		ZXLD 9HP		ZXLD 12-16HP		ZXD/ ZXLD 20HP	
	401 501	451 551	462	481 581	401	451	451 551	462	471	451 551	462	481 581	551	581	451 551	481 581	551	581	551	581
Liquid line filter dryer/sight glass	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Liquid receiver	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Oil separator		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Accumulator							✓	✓	✓						✓	✓	✓	✓	✓	✓
Adjustable LP switch	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓
LP Transducer			✓					✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HP Transducer													✓	✓			✓	✓	✓	✓
Fixed LP switch	✓	✓	✓							✓	✓		✓							
Fixed HP switch	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CoreSense™	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Digital modulation										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fan speed controller	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intelligent store solution module	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Circuit breaker	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sound jacket	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Low ambient kit				✓								✓		✓		✓		✓		✓
Electronic oil level protective control													✓	✓			✓	✓	✓	✓
Emergency mode																			✓	✓

BOM:

4xx - Chassis with door

5xx - Chassis without door

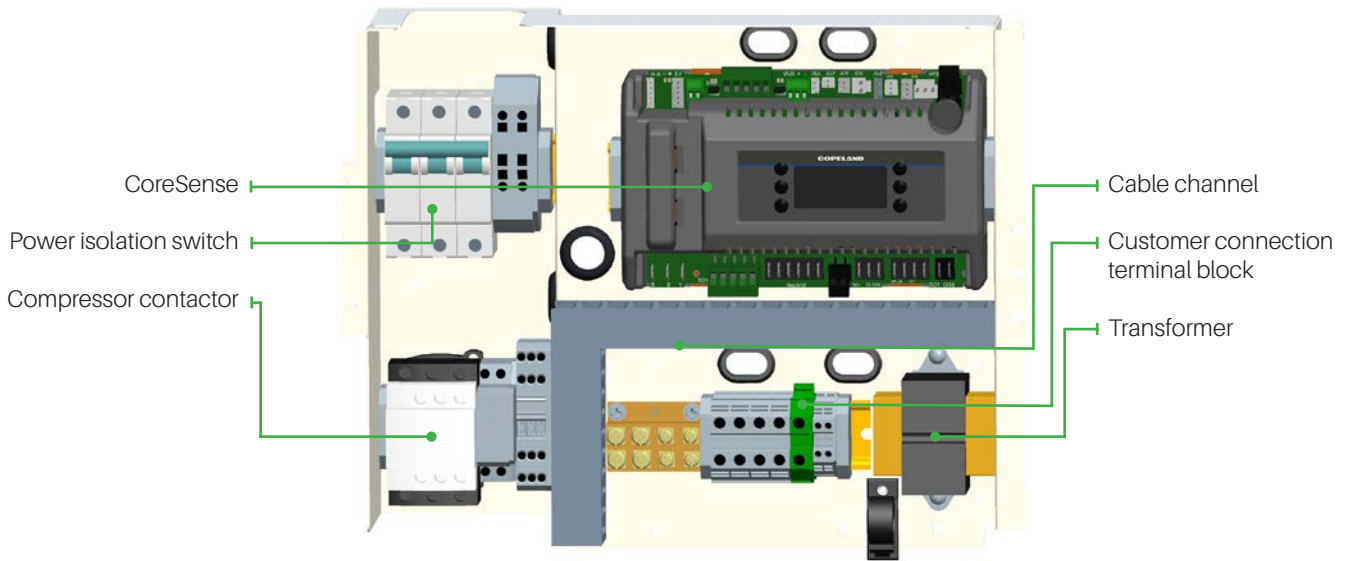
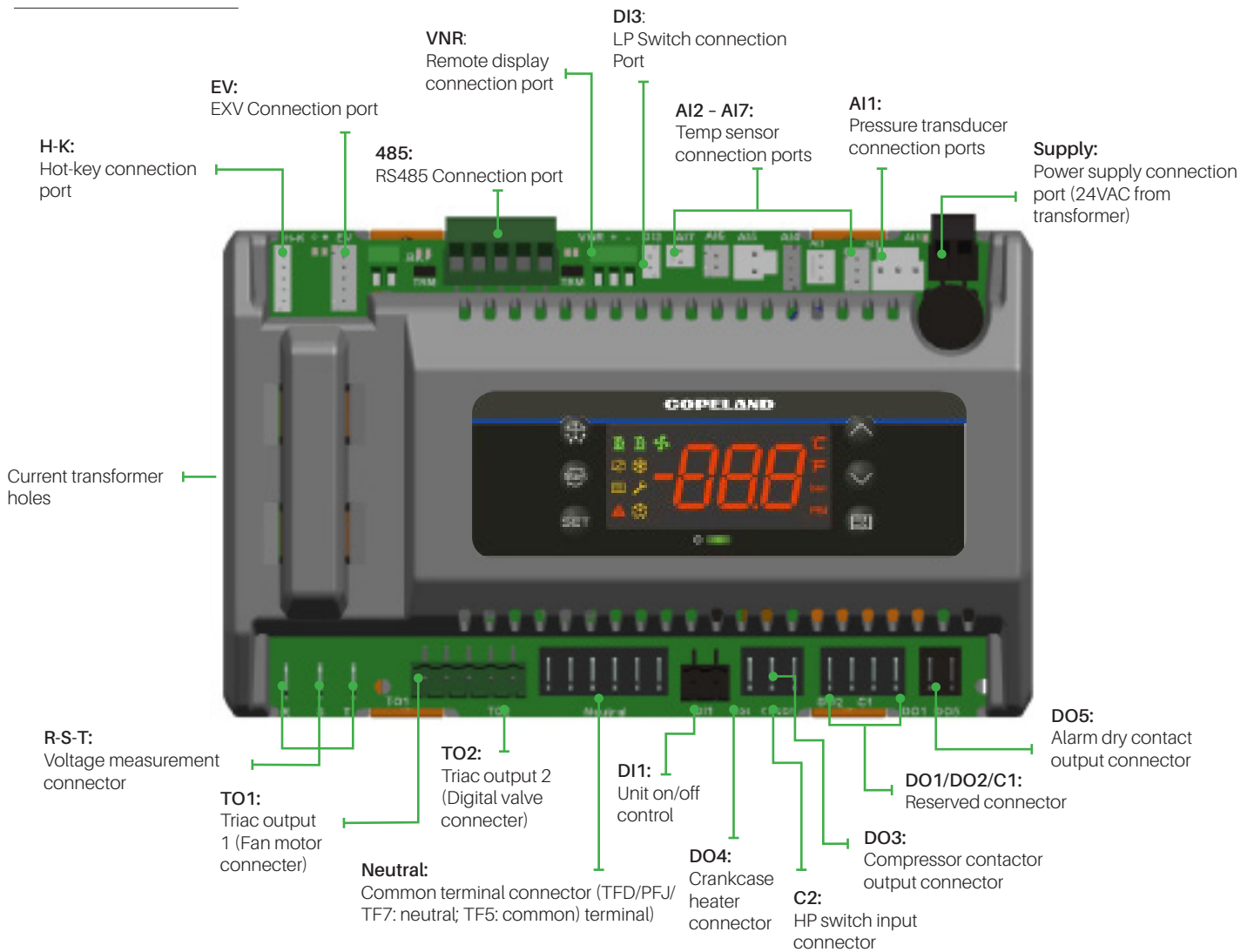


Figure 2. Layout of the CoreSense, Intelligent Store Module

CoreSense layout

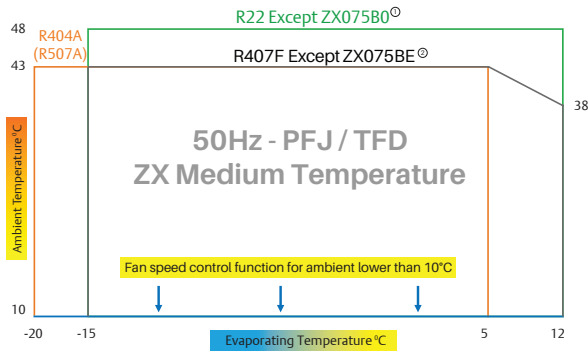


Operating envelopes

ZX Family : Medium temperature

ZX Medium Temperature at 50 Hz - PFJ / TFD

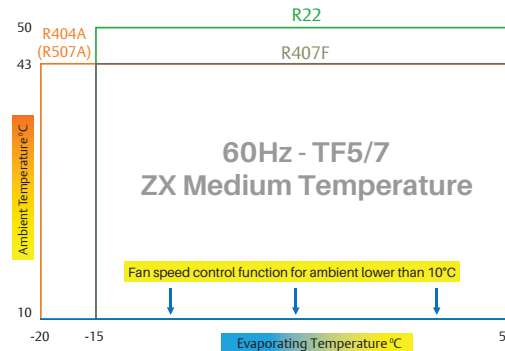
Refrigerant – R404A (R507A), R22, R407F
Maximum Suction Gas Temperature: 20°C



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

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

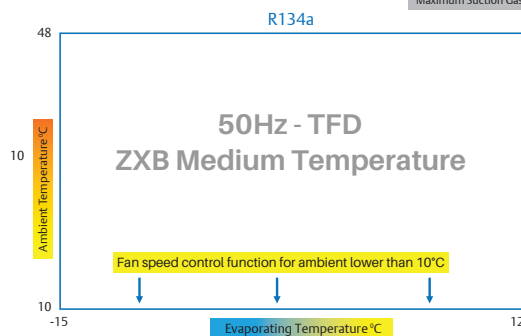
Refrigerant – R404A (R507A), R22, R407F
Maximum Suction Gas Temperature: 20°C



ZXB Family : Medium temperature

ZXB Medium Temperature at 50 Hz - TFD

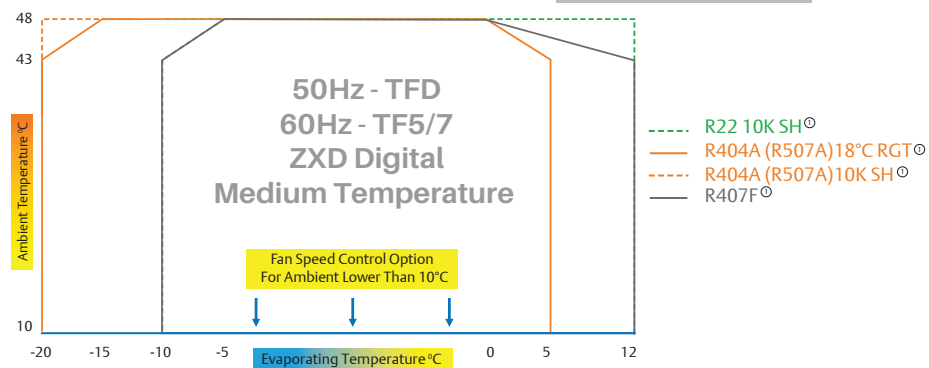
Refrigerant – R134a
Maximum Suction Gas Temperature: 20 °C



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)



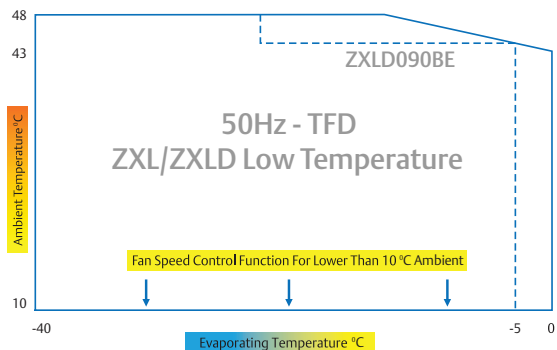
Note: For model ZXD075B0/E Max Amb: 43°C, Max Evap: 5°C
For model ZXD090BE Max Amb: 43°C, Max Evap: 0°C

Operating envelopes

ZXL/ZXLD Family : Low temperature

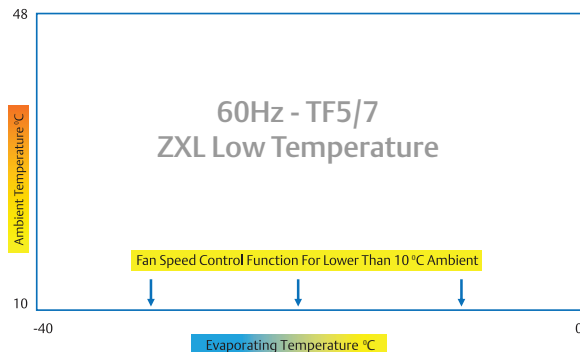
ZXL/ZXLD Low Temperature at 50 Hz - TFD

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

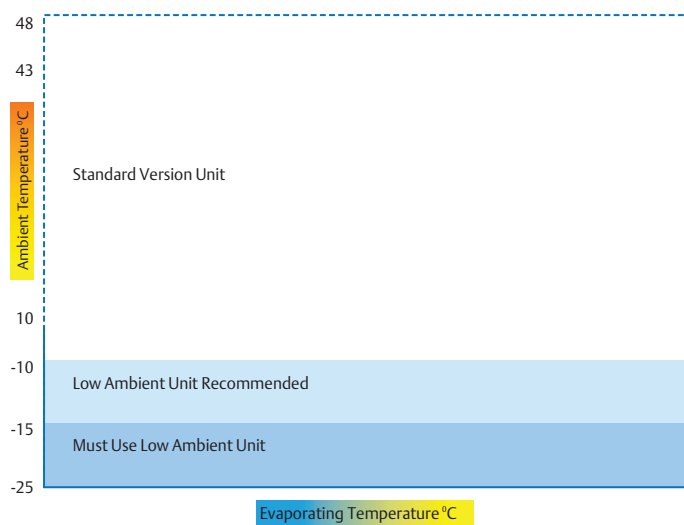


ZXL Low Temperature at 60 Hz - PFV/TF5/TF7

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



Guideline for using low ambient units



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

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 ¹	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 ²	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 ²	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 ²	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 ²	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: ¹ Available on PFJ models only² 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 evaporating temperature (°C)					Power evaporating temperature (°C)				
		-15	-10	-5	0	5	-15	-10	-5	0	5
ZX020B0	27	3.62	4.42	5.36	6.43	7.59	1.69	1.71	1.69	1.69	1.71
	32	3.41	4.22	5.17	6.20	7.29	1.89	1.91	1.90	1.89	1.90
	38	2.88	3.77	4.75	5.78	6.84	2.13	2.17	2.17	2.17	2.18
	43	2.20	3.19	4.24	5.31	6.38	2.35	2.41	2.42	2.43	2.45
	48	1.30	2.43	3.58	4.73	5.84	2.59	2.67	2.71	2.73	2.75
	50	0.88	2.07	3.27	4.46	5.60	2.69	2.78	2.83	2.85	2.89
ZX030B0	27	5.12	6.20	7.29	8.90	10.54	2.42	2.53	2.69	2.73	2.77
	32	4.91	5.84	6.98	8.48	10.00	2.60	2.73	2.88	2.90	3.05
	38	4.39	5.51	6.53	7.96	9.38	2.94	3.08	3.21	3.22	3.42
	43	3.90	5.03	5.94	7.35	8.74	3.27	3.41	3.52	3.65	3.77
	48	2.86	4.23	5.01	6.45	7.86	3.70	3.94	4.07	4.15	4.34
	50	2.45	3.12	4.51	5.98	7.40	3.86	4.16	4.29	4.36	4.57
ZX040B0	27	7.36	8.83	10.52	12.37	14.31	3.25	3.35	3.52	3.75	4.02
	32	7.06	8.54	10.21	12.02	13.92	3.55	3.63	3.79	4.01	4.28
	38	6.37	7.87	9.55	11.34	13.20	4.05	4.11	4.26	4.48	4.75
	43	5.62	7.16	8.86	10.66	12.50	4.55	4.60	4.73	4.95	5.22
	48	4.82	6.41	8.14	9.96	11.81	5.09	5.12	5.25	5.46	5.74
	50	4.50	6.12	7.87	9.70	11.55	5.30	5.33	5.46	5.67	5.95
ZX050B0	27	8.55	10.51	12.53	14.66	16.95	3.54	3.72	3.91	4.05	4.27
	32	8.12	9.97	11.95	14.06	16.42	4.15	4.13	4.39	4.52	4.88
	38	7.49	9.23	11.14	13.28	15.68	4.64	4.76	5.00	5.25	5.49
	43	6.53	8.16	10.03	12.18	14.65	5.25	5.25	5.49	5.74	6.10
	48	4.75	6.96	9.14	11.39	13.76	6.33	6.40	6.69	6.90	7.13
	50	4.04	6.48	8.79	11.07	13.41	6.76	6.87	7.16	7.37	7.55
ZX060B0	27	10.20	12.49	14.99	17.66	21.19	4.39	4.62	4.85	5.20	5.54
	32	9.25	11.92	14.05	16.73	19.56	4.85	5.08	5.31	5.54	5.89
	38	8.17	10.10	12.68	15.42	18.31	5.43	5.66	5.89	6.12	6.35
	43	7.09	8.68	11.28	14.14	17.11	6.12	6.47	6.81	7.04	7.16
	48	5.96	8.40	11.10	13.38	15.70	7.53	7.77	8.07	8.37	8.70
	50	5.51	8.29	11.03	13.08	15.13	8.09	8.16	8.44	8.75	9.00
ZX075B0	27	11.25	14.06	16.61	19.89	24.05	5.10	5.34	5.59	5.86	6.14
	32	10.60	12.95	16.02	19.16	23.29	5.60	5.82	6.11	6.48	6.95
	38	9.91	12.51	15.28	17.85	22.38	6.31	6.51	6.86	7.35	8.00
	43	9.18	11.53	14.17	16.50	21.31	7.00	7.17	7.56	8.15	8.96
	48	7.96	9.66	12.95	15.92	19.74	8.15	8.45	8.88	9.47	10.12
	50	7.48	8.92	12.46	15.69	19.11	8.61	8.96	9.41	10.00	10.58

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

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 ¹	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 ²	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 ²	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 ²	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 ²	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: ¹ Available on PFJ models only² 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 evaporating temperature (°C)						Power evaporating temperature (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
ZX020BE	27	3.50	4.26	4.98	5.77	6.71	7.89	1.84	1.87	1.90	1.95	2.00	2.05
	32	3.15	3.94	4.66	5.40	6.25	7.30	2.09	2.10	2.12	2.16	2.20	2.24
	38	2.69	3.52	4.24	4.93	5.69	6.60	2.42	2.42	2.44	2.47	2.50	2.54
	43	2.22	3.09	3.82	4.48	5.17	5.97	2.71	2.71	2.73	2.76	2.81	2.85
ZX030BE	27	5.02	5.98	7.05	8.17	9.29	10.36	2.69	2.80	2.92	3.05	3.17	3.29
	32	4.62	5.56	6.63	7.75	8.88	9.97	2.98	3.06	3.16	3.26	3.36	3.45
	38	4.14	5.02	6.02	7.10	8.18	9.23	3.38	3.46	3.55	3.65	3.75	3.85
	43	3.78	4.56	5.47	6.46	7.47	8.44	3.74	3.84	3.95	4.08	4.21	4.33
ZX040BE	27	6.71	8.02	9.60	11.30	13.00	14.59	3.72	3.79	3.89	3.99	4.10	4.18
	32	6.46	7.70	9.20	10.81	12.42	13.90	3.84	3.92	4.02	4.14	4.26	4.35
	38	5.90	7.05	8.45	9.95	11.43	12.76	4.32	4.40	4.50	4.62	4.74	4.84
	43	5.36	6.43	7.73	9.12	10.49	11.69	4.89	4.95	5.05	5.16	5.27	5.37
ZX050BE	27	8.10	9.70	11.55	13.54	15.53	17.38	4.42	4.63	4.86	5.11	5.35	5.57
	32	8.05	9.56	11.33	13.21	15.09	16.83	4.59	4.78	4.99	5.22	5.45	5.66
	38	7.46	8.86	10.50	12.25	13.99	15.58	5.10	5.27	5.48	5.70	5.93	6.13
	43	6.81	8.10	9.63	11.26	12.88	14.33	5.62	5.80	6.01	6.24	6.47	6.69
ZX060BE ¹	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 ¹	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: ¹Available 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 evaporating temperature (°C)							Power evaporating temperature (°C)						
		-15	-10	-5	0	5	10	12	-15	-10	-5	0	5	10	12
ZX020BE	27	3.63	4.32	5.07	5.79	6.45	7.24	7.62	1.55	1.67	1.76	1.87	1.99	2.06	2.14
	32	3.36	3.98	4.69	5.39	6.07	6.90	7.30	1.77	1.85	1.93	2.05	2.22	2.35	2.46
	38	2.79	3.35	4.02	4.74	5.46	6.35	6.78	2.11	2.18	2.27	2.44	2.70	2.92	3.06
	43	2.21	2.74	3.40	4.14	4.91			2.40	2.48	2.61	2.84	3.20		
ZX025BE ¹	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 ²	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 ²	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 ²	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 ²	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: ¹ Available on PFJ models only² 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 evaporating temperature (°C)					Power evaporating temperature (°C)				
		-15	-10	-5	0	5	-15	-10	-5	0	5
ZX020BE	27	4.51	5.36	6.27	7.14	7.92	2.01	2.11	2.20	2.28	2.41
	32	4.17	4.93	5.78	6.63	7.44	2.29	2.33	2.41	2.50	2.68
	38	3.45	4.13	4.95	5.81	6.68	2.73	2.74	2.83	2.97	3.25
	43	2.73	3.37	4.18	5.07	6.00	3.10	3.11	3.24	3.45	3.85
ZX030BE	27	6.23	7.60	9.03	10.51	12.14	2.86	3.02	3.08	3.15	3.19
	32	5.76	6.99	8.32	9.77	11.41	3.17	3.31	3.33	3.38	3.58
	38	4.77	5.86	7.13	8.56	10.24	3.70	3.76	3.87	3.93	4.30
	43	3.78	4.78	6.01	7.46	9.20	4.01	4.11	4.26	4.24	4.84
ZX040BE	27	8.47	10.18	11.91	13.66	15.54	3.72	4.01	4.07	4.13	4.12
	32	7.83	9.36	10.99	12.70	14.60	4.12	4.39	4.39	4.43	4.63
	38	6.49	7.85	9.41	11.13	13.11	4.82	5.00	5.10	5.16	5.56
	43	5.14	6.41	7.94	9.70	11.78	5.22	5.46	5.62	5.57	6.26
ZX050BE	27	10.08	12.42	14.50	16.67	19.30	4.71	4.67	4.89	5.13	5.40
	32	9.21	11.68	13.80	15.94	18.45	5.27	5.23	5.47	5.71	5.99
	38	7.82	10.42	12.58	14.67	17.03	5.97	5.91	6.16	6.39	6.68
	43	6.58	9.28	11.47	13.49	15.71	6.61	6.54	6.77	7.00	7.28
ZX060BE ¹	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 ¹	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: ¹Available 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 evaporating temperature (°C)							Power evaporating temperature (°C)						
		-15	-10	-5	0	5	10	12	-15	-10	-5	0	5	10	12
ZXB015BE	27	2.42	2.92	3.48	4.11	4.83	5.65	6.01	1.10	1.08	1.09	1.11	1.14	1.16	1.16
	32	2.37	2.87	3.42	4.03	4.72	5.52	5.86	1.20	1.18	1.18	1.21	1.25	1.28	1.29
	38	2.26	2.76	3.30	3.89	4.56	5.31	5.64	1.34	1.32	1.33	1.36	1.41	1.46	1.47
	43	2.14	2.64	3.18	3.76	4.40	5.13	5.44	1.49	1.47	1.48	1.52	1.58	1.64	1.66
	48	2.01	2.52	3.05	3.61	4.24	4.94	5.24	1.67	1.64	1.66	1.71	1.77	1.84	1.87
ZXB020BE	27	2.74	3.41	4.14	4.94	5.78	6.67	7.03	1.08	1.07	1.10	1.14	1.19	1.23	1.25
	32	2.63	3.29	4.01	4.80	5.63	6.51	6.87	1.21	1.20	1.23	1.27	1.33	1.38	1.40
	38	2.47	3.12	3.84	4.61	5.43	6.29	6.64	1.38	1.38	1.41	1.46	1.52	1.58	1.60
	43	2.36	2.99	3.70	4.45	5.26	6.10	6.44	1.53	1.53	1.57	1.62	1.69	1.75	1.78
	48	2.27	2.90	3.58	4.32	5.10	5.92	6.25	1.69	1.69	1.73	1.78	1.85	1.93	1.95
ZXB025BE	27	2.98	3.70	4.46	5.28	6.19	7.20	7.63	1.25	1.28	1.34	1.42	1.52	1.62	1.66
	32	2.89	3.59	4.33	5.14	6.02	7.00	7.43	1.37	1.41	1.48	1.56	1.66	1.75	1.79
	38	2.79	3.47	4.18	4.95	5.80	6.75	7.16	1.53	1.59	1.67	1.76	1.86	1.96	1.99
	43	2.72	3.37	4.05	4.79	5.61	6.52	6.91	1.67	1.75	1.85	1.96	2.07	2.17	2.20
	48	2.65	3.27	3.92	4.62	5.40	6.27	6.65	1.83	1.94	2.06	2.18	2.30	2.41	2.44
ZXB030BE	27	3.74	4.53	5.45	6.49	7.66	8.95	9.49	1.50	1.54	1.62	1.73	1.83	1.93	1.96
	32	3.59	4.39	5.29	6.30	7.43	8.66	9.18	1.65	1.69	1.77	1.89	2.02	2.16	2.21
	38	3.43	4.22	5.10	6.08	7.15	8.31	8.80	1.85	1.87	1.96	2.09	2.25	2.43	2.50
	43	3.29	4.07	4.94	5.88	6.90	8.01	8.47	2.05	2.05	2.14	2.28	2.46	2.67	2.75
	48	3.14	3.91	4.75	5.66	6.64	7.67	8.11	2.30	2.29	2.36	2.51	2.70	2.94	3.03
ZXB035BE	27	5.09	6.04	7.16	8.40	9.73	11.13	11.70	1.88	2.06	2.21	2.35	2.52	2.75	2.87
	32	4.93	5.88	6.97	8.17	9.46	10.81	11.35	2.02	2.23	2.40	2.56	2.75	3.00	3.13
	38	4.76	5.67	6.72	7.88	9.11	10.37	10.88	2.22	2.45	2.65	2.84	3.05	3.32	3.46
	43	4.61	5.50	6.51	7.61	8.78	9.97	10.45	2.42	2.69	2.90	3.11	3.34	3.64	3.78
	48	4.47	5.32	6.28	7.32	8.41	9.53	9.97	2.71	2.99	3.23	3.46	3.71	4.03	4.18
ZXB040BE	27	5.48	6.65	7.93	9.34	10.88	12.55	13.26	2.19	2.22	2.33	2.49	2.70	2.95	3.05
	32	5.30	6.43	7.68	9.05	10.54	12.18	12.87	2.32	2.38	2.51	2.68	2.90	3.15	3.26
	38	5.11	6.18	7.38	8.69	10.13	11.71	12.38	2.53	2.62	2.77	2.95	3.17	3.42	3.52
	43	4.94	5.97	7.11	8.37	9.77	11.30	11.95	2.80	2.91	3.06	3.25	3.47	3.70	3.80
	48	4.76	5.73	6.82	8.03	9.36	10.84	11.47	3.18	3.31	3.47	3.66	3.87	4.09	4.18
ZXB050BE	27	6.23	7.53	9.10	10.95	13.06	15.47	16.51	2.45	2.52	2.66	2.84	3.05	3.28	3.37
	32	6.21	7.52	9.07	10.86	12.90	15.19	16.18	2.72	2.83	2.99	3.19	3.42	3.65	3.74
	38	6.17	7.45	8.93	10.63	12.54	14.67	15.59	3.07	3.21	3.41	3.63	3.87	4.10	4.19
	43	6.01	7.24	8.65	10.23	12.01	13.98	14.82	3.34	3.52	3.73	3.98	4.22	4.46	4.55
	48	5.65	6.80	8.10	9.56	11.18	12.96	13.72	3.57	3.78	4.02	4.28	4.54	4.78	4.86
ZXB060BE	27	7.34	8.70	10.14	11.76	13.65	15.91	16.94	2.92	3.13	3.38	3.63	3.89	4.14	4.24
	32	7.12	8.46	9.86	11.42	13.23	15.41	16.40	3.12	3.35	3.61	3.89	4.19	4.49	4.61
	38	6.87	8.16	9.49	10.97	12.69	14.75	15.69	3.43	3.66	3.93	4.23	4.56	4.90	5.05
	43	6.69	7.94	9.21	10.61	12.24	14.19	15.09	3.76	3.98	4.25	4.56	4.90	5.28	5.43
	48	6.59	7.78	8.98	10.30	11.83	13.67	14.51	4.20	4.39	4.65	4.96	5.32	5.71	5.87

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

Capacity and power (kW) at 50 Hz - TFD

Model	Ambient temperature (°C)	Capacity evaporating temperature (°C)						Power evaporating temperature (°C)					
		-10	-5	0	5	10	12	-10	-5	0	5	10	12
ZXD030B0	27	5.32	6.09	7.21	8.70	10.63	11.53	1.76	1.93	2.05	2.09	1.99	1.90
	32	4.90	5.84	6.94	8.24	9.80	10.50	2.02	2.11	2.21	2.28	2.27	2.24
	38	4.34	5.64	6.88	8.12	9.40	9.93	2.31	2.27	2.31	2.39	2.48	2.50
	43	3.18	4.91	6.41	7.72	8.90	9.34	2.74	2.57	2.55	2.62	2.75	2.81
	48		3.08						3.25				
ZXD040B0	27	7.73	9.28	10.88	12.42	14.67	15.18	2.66	2.77	2.92	3.02	3.30	3.38
	32	7.29	8.91	10.61	12.33	14.29	14.98	2.84	3.00	3.12	3.26	3.60	3.70
	38	6.39	7.95	9.68	11.44	13.22	14.14	3.20	3.32	3.42	3.57	4.01	4.10
	43	5.71	7.27	8.97	10.70	12.69	13.29	3.44	3.60	3.72	3.86	4.29	4.40
	48		6.55	8.06	9.76	11.56	12.17		4.40	4.62	4.70	4.96	5.07
ZXD050B0	27	8.76	10.44	12.22	14.12	17.28	18.22	3.03	3.18	3.29	3.47	3.95	4.10
	32	8.31	9.96	11.72	13.68	16.62	17.47	3.35	3.57	3.67	3.97	4.50	4.58
	38	7.69	9.28	11.06	13.06	15.31	16.34	3.87	4.07	4.27	4.47	4.98	5.10
	43	6.80	8.36	10.15	12.21	14.60	15.47	4.27	4.47	4.66	4.96	5.46	5.56
	48		7.62	9.49	11.47	13.49	14.40		5.44	5.61	5.80	6.01	6.04
ZXD060B0	27	10.41	12.49	14.72	17.66	19.64	20.60	3.70	3.88	4.16	4.50	4.70	4.81
	32	9.93	11.71	13.94	16.30	18.87	20.10	4.07	4.25	4.43	4.75	5.29	5.47
	38	8.90	10.57	12.85	15.26	17.77	18.92	4.53	4.71	4.90	5.23	5.86	5.98
	43	7.60	9.40	11.78	14.26	16.33	17.86	5.17	5.45	5.64	6.10	6.57	6.66
	48		9.25	11.15	13.08	15.09	16.06		6.46	6.69	6.96	7.22	7.30
ZXD075B0	27	12.37	14.91	17.73	20.87			4.54	4.76	4.98	5.22		
	32	11.24	13.90	16.96	20.21			4.95	5.19	5.51	5.91		
	38	10.85	13.25	16.08	19.42			5.53	5.83	6.25	6.80		
	43		12.29	15.09	18.49				6.43	6.93	7.62		
ZXD076B0	27	12.62	15.21	18.08	21.29	24.47	25.93	4.45	4.66	4.88	5.12	5.47	5.64
	32	11.46	14.18	16.96	20.61	23.07	24.56	4.85	5.09	5.40	5.79	5.86	5.97
	38	11.07	13.52	15.80	19.81	21.94	23.66	5.42	5.72	6.12	6.67	6.64	6.81
	43	10.20	12.54	14.60	18.86	21.45	22.63	5.98	6.30	6.79	7.47	7.34	7.48
	48		11.46	14.09	17.47	19.73	20.75		7.40	7.89	8.43	8.74	8.78

Notes: The rating condition is based on suction superheat of 10K.
 ZXD030B0 rating condition is based on return gas temperature of 18.3°C.
 Power includes condenser fan.
 Ambient 38°C and 43°C are typical design conditions for unit selection.

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

Model	Ambient temperature (°C)	Capacity evaporating temperature (°C)						Power evaporating temperature (°C)					
		-10	-5	0	5	10	12	-10	-5	0	5	10	12
ZXD030B0 ¹	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: ¹ 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 evaporating temperature (°C)						Power evaporating temperature (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-15	-5	0	5
ZXD030BE	27	3.95	4.65	5.56	6.65	7.90	9.28	1.92	2.14	2.24	2.26	2.26	2.29
	32	3.72	4.37	5.20	6.18	7.28	8.47	2.01	2.22	2.33	2.38	2.43	2.53
	38	3.32	3.94	4.69	5.55	6.48	7.45	2.27	2.46	2.56	2.63	2.73	2.90
	43	2.98	3.59	4.29	5.06	5.86	6.67	2.53	2.69	2.78	2.85	2.97	3.19
	48		3.34	4.00	4.70	5.39			2.86	2.92	2.99	3.13	
ZXD040BE	27	5.92	7.11	8.35	9.64	11.01	12.46	2.70	2.85	3.02	3.21	3.43	3.68
	32	5.53	6.69	7.87	9.11	10.40	11.75	2.99	3.12	3.27	3.44	3.64	3.87
	38	4.90	6.00	7.12	8.27	9.45	10.68	3.49	3.59	3.72	3.87	4.04	4.24
	43	4.23	5.28	6.33	7.40	8.48	9.59	4.02	4.10	4.21	4.34	4.50	4.68
	48	3.56	4.56	5.54	6.53	7.51		4.55	4.61	4.70	4.81	4.96	
ZXD050BE	27	7.49	9.05	10.67	12.31	13.93	15.51	3.65	3.73	3.86	4.02	4.25	4.53
	32	6.56	8.12	9.76	11.43	13.10	14.74	4.11	4.20	4.32	4.50	4.72	5.00
	38	5.56	7.07	8.67	10.32	11.98	13.63	4.59	4.68	4.79	4.96	5.16	5.42
	43	4.88	6.28	7.79	9.37	10.98	12.58	5.11	5.17	5.27	5.40	5.59	5.81
	48	4.20	5.49	6.91	8.42	9.98		5.63	5.67	5.75	5.85	6.01	
ZXD060BE	27	8.24	9.72	11.47	13.30	15.69	18.48	3.69	3.84	4.06	4.33	4.62	4.93
	32	7.58	9.06	10.72	12.58	14.72	17.20	4.40	4.54	4.75	5.01	5.28	5.56
	38	6.74	8.25	9.83	11.55	13.48	15.69	4.93	5.05	5.25	5.47	5.72	5.98
	43	5.90	7.48	9.07	10.74	12.57	14.63	5.59	5.69	5.85	6.06	6.28	6.51
	48	5.06	6.71	8.31	9.93	11.66		6.26	6.32	6.46	6.64	6.83	
ZXD075BE	27	9.04	10.86	12.75	15.07	17.76	20.13	4.08	4.26	4.50	4.80	5.13	5.46
	32	8.33	10.01	11.82	13.86	16.20	18.92	4.88	5.03	5.27	5.54	5.86	6.17
	38	7.30	8.74	10.62	12.47	14.54	16.92	5.46	5.61	5.82	6.06	6.35	6.63
	43	6.26	7.93	9.61	11.38	13.32	15.50	6.20	6.32	6.49	6.71	6.96	7.22
ZXD076BE	27	9.22	11.07	13.00	15.37	18.12	20.53	4.00	4.17	4.41	4.70	5.03	5.35
	32	8.50	10.21	12.06	14.14	16.53	19.30	4.78	4.93	5.16	5.43	5.74	6.05
	38	7.45	8.91	10.83	12.72	14.83	17.26	5.35	5.50	5.70	5.94	6.22	6.50
	43	6.39	8.09	9.80	11.61	13.59	15.81	6.07	6.19	6.36	6.57	6.82	7.07
	48	5.32	7.26	8.77	10.50	12.34		6.79	6.88	7.02	7.21	7.43	
ZXD090BE	27	11.80	13.70	14.70	16.25	18.30		5.10	5.20	5.50	6.50	6.20	
	32	10.70	12.50	14.50	16.20	17.00		6.20	6.30	6.40	7.10	6.80	
	38	10.50	12.30	14.40	16.10	16.80		7.80	8.20	8.50	9.40	8.40	
	43	9.90	11.90	13.20	14.50	15.20		8.42	8.80	9.56	9.90	9.20	
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 ¹	27	4.70	5.68	6.71	7.80	8.94	10.14	2.29	2.46	2.63	2.79	2.95	3.10
	32	4.43	5.36	6.33	7.34	8.37	9.45	2.48	2.66	2.84	3.01	3.18	3.35
	38	4.03	4.89	5.77	6.67	7.58	8.50	2.73	2.92	3.10	3.29	3.48	3.67
	43	3.67	4.47	5.27	6.07	6.86	7.65	2.96	3.15	3.34	3.54	3.75	3.95
	48		4.07	4.78	5.48	6.15			3.40	3.59	3.80	4.02	
ZXD040BE	27	7.10	8.53	9.35	10.80	12.99	14.70	3.24	3.42	3.62	3.85	4.05	4.34
	32	6.64	8.03	8.70	10.20	12.27	13.87	3.59	3.74	4.00	4.13	4.30	4.57
	38	5.88	7.20	7.97	9.26	11.15	12.60	4.19	4.31	4.46	4.64	4.77	5.00
	43	5.21	6.34	7.09	8.29	10.01	11.32	4.82	4.92	5.05	5.21	5.31	5.52
	48	4.27	5.60	6.20	7.31	8.86		5.46	5.53	5.64	5.77	5.85	
ZXD050BE	27	8.99	10.86	11.74	13.54	15.32	17.06	4.38	4.48	4.63	4.83	5.10	5.44
	32	7.87	9.75	10.77	12.57	14.41	16.21	4.93	5.04	5.11	5.40	5.66	6.00
	38	6.67	8.48	9.54	11.35	13.18	14.99	5.51	5.61	5.75	5.95	6.20	6.51
	43	5.86	7.54	8.57	10.31	12.08	13.84	6.14	6.21	6.32	6.48	6.71	6.97
	48	5.04	6.59	7.60	9.26	10.98		6.76	6.81	6.89	7.02	7.22	
ZXD060BE	27	10.22	12.06	13.41	15.56	17.89	21.07	4.42	4.61	5.08	5.41	5.78	6.16
	32	9.34	11.23	12.54	14.72	16.78	19.61	5.28	5.45	5.93	6.26	6.61	6.96
	38	8.36	10.23	11.50	13.51	15.37	17.89	5.91	6.06	6.58	6.83	7.15	7.47
	43	7.44	9.27	10.61	12.57	14.33	16.68	6.71	6.83	7.32	7.57	7.85	8.34
	48	6.27	8.22	9.72	11.62	13.29		7.51	7.59	8.07	8.30	8.54	
ZXD075BE	27	11.16	13.39	14.92	17.64	19.93	22.58	4.80	5.00	5.69	6.06	6.54	6.96
	32	10.29	12.35	13.84	16.23	18.18	21.23	5.74	5.92	6.66	7.00	7.46	7.87
	38	9.01	10.78	12.43	14.60	16.31	18.99	6.42	6.60	7.35	7.66	8.09	8.45
	43	7.73	9.79	11.25	13.33	14.95	17.39	7.28	7.43	8.20	8.48	8.87	9.19
	48	6.44	8.78	10.07	12.05			8.15	8.26	9.06	9.30		

Notes: ¹Available 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 evaporating temperature (°C)						Power evaporating temperature (°C)					
		-10	-5	0	5	10	12	-10	-5	0	5	10	12
ZXD030BE	27	5.70	6.64	7.48	8.63	10.52	11.57	2.20	2.33	2.61	2.87	2.93	2.86
	32	5.31	6.35	7.24	8.40	10.25	11.27	2.42	2.53	2.79	3.01	3.02	2.92
	38	4.72	5.84	6.75	7.88	9.64	10.62	2.79	2.90	3.14	3.33	3.30	3.19
	43		5.45	6.35					3.23	3.47			
	48												
ZXD040BE	27	7.68	9.32	11.17	13.20	15.41	16.34	2.85	3.04	3.23	3.40	3.49	3.50
	32	7.30	8.93	10.73	12.69	14.77	15.64	3.13	3.30	3.50	3.70	3.86	3.90
	38	6.66	8.27	10.01	11.85	13.77	14.56	3.53	3.66	3.86	4.09	4.31	4.39
	43	6.06	7.64	9.30	11.03	12.81	13.53	3.95	4.04	4.22	4.46	4.72	4.83
	48		6.98	8.56					4.52	4.67			
ZXD050BE	27	9.52	11.65	13.94	16.37	19.26	20.42	3.61	3.77	3.94	4.08	4.20	4.21
	32	9.05	11.21	13.52	15.73	18.47	19.56	3.97	4.11	4.30	4.45	4.64	4.70
	38	8.11	10.33	12.69	14.81	17.35	18.37	4.40	4.54	4.77	4.95	5.23	5.33
	43	7.45	9.47	11.72	13.90	16.40	17.40	4.98	4.98	5.19	5.45	5.82	5.97
	48		8.73	10.79					5.61	5.74			
ZXD060BE	27	10.37	12.69	15.70	18.80	22.69	24.24	3.80	4.18	4.49	4.58	4.62	4.86
	32	9.85	12.20	15.23	17.91	21.39	22.78	4.33	4.74	5.15	5.11	5.14	5.40
	38	9.07	11.50	14.19	16.64	19.76	21.01	4.81	5.27	5.65	5.64	5.75	6.03
	43	8.41	10.59	12.99	15.41	18.34	19.52	5.40	5.72	5.99	6.06	6.26	6.54
	48		9.93	12.07					6.67	6.85			
ZXD075BE	27	12.99	15.24	17.78	20.67			4.92	5.09	5.19	5.28		
	32	12.35	14.49	16.87	19.56			5.61	5.71	5.83	5.86		
	38	11.35	13.34	15.51	17.92			6.22	6.19	6.30	6.37		
	43		12.30	14.28	16.44				6.73	6.72	6.78		
	48												
ZXD076BE	27	13.25	15.54	18.13	21.09	24.47	25.82	4.82	4.98	5.09	5.18	5.14	5.33
	32	12.59	14.78	17.21	19.96	23.07	24.32	5.50	5.59	5.71	5.74	5.71	5.94
	38	11.57	13.60	15.82	18.28	21.06	22.17	6.10	6.07	6.17	6.24	6.31	6.56
	43	10.67	12.55	14.57	16.77	19.23	20.22	6.80	6.60	6.58	6.65	6.75	6.98
	48		11.54	13.33					7.45	7.26			

Notes: The rating condition is based on suction superheat of 10K
 ZXD030BE rating condition is based on return gas temperature of 18.3°C.
 Power includes condenser fan.
 Ambient 38°C and 43°C are typical design conditions for unit selection.

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

Model	Ambient temperature (°C)	Capacity evaporating temperature (°C)						Power evaporating temperature (°C)					
		-10	-5	0	5	10	12	-10	-5	0	5	10	12
ZXD030BE ¹	27	6.92	8.06	9.40	10.99	12.90	13.76	2.64	2.82	2.97	3.13	3.40	3.55
	32	6.66	7.78	9.01	10.41	12.04	12.78	2.85	3.05	3.20	3.39	3.67	3.83
	38	6.20	7.32	8.45	9.64	10.98	11.56	3.13	3.35	3.54	3.75	4.08	4.25
	43		6.84	7.90					3.65	3.86			
	48												
ZXD040BE	27	8.60	10.44	13.18	15.58	18.18	19.27	3.41	3.64	3.82	4.01	4.11	4.12
	32	8.06	10.00	12.66	14.98	17.45	18.48	3.82	3.96	4.14	4.37	4.56	4.61
	38	7.46	9.27	11.81	13.98	16.25	17.18	4.23	4.39	4.56	4.82	5.08	5.17
	43	6.78	8.56	10.98	13.02	15.12	15.97	4.74	4.85	4.98	5.26	5.57	5.69
	48		7.81	10.10					5.42	5.51			
ZXD050BE	27	10.48	12.81	15.33	18.01	21.19	22.46	4.33	4.53	4.72	4.90	5.04	5.06
	32	9.98	12.32	14.87	17.30	20.30	21.50	4.69	4.93	5.16	5.33	5.58	5.64
	38	8.93	11.36	13.96	16.29	19.08	20.20	5.28	5.44	5.74	5.95	6.28	6.40
	43	8.20	10.42	12.89	15.29	18.04	19.14	5.97	5.97	6.23	6.53	6.98	7.16
	48		9.60	11.87					6.73	6.90			
ZXD060BE	27	12.12	14.84	17.90	21.44	25.87	27.64	4.75	5.22	5.62	5.72	5.77	6.06
	32	11.53	14.28	17.36	20.42	24.39	25.98	5.40	5.93	6.45	6.40	6.43	6.76
	38	10.62	13.45	16.18	18.97	22.53	23.95	6.02	6.58	7.06	7.04	7.17	7.53
	43	9.84	12.40	14.81	17.57	20.92	22.26	6.75	7.14	7.49	7.77	8.22	8.69
	48		11.62	13.76					8.34	8.57			
ZXD075BE	27	15.21	17.84	19.95	23.19	26.90	28.53	6.22	6.42	6.62	6.73	6.68	6.97
	32	14.46	16.96	18.93	21.95	25.38	26.88	7.09	7.21	7.42	7.47	7.45	7.79
	38	13.28	15.62	17.40	20.12	23.18	24.52	7.86	7.83	8.02	8.12	8.21	8.57
	43	12.25	14.41	16.02	18.44	21.15	22.32	8.78	8.51	8.56	8.64	8.77	9.09
	48		13.26	14.68					9.60	9.46			

Notes: ¹Available on TF7 models only.

The rating condition is based on suction superheat of 10K

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

Power includes condenser fan.

Ambient 38°C and 43°C are typical design conditions for unit selection.

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

Model	Ambient temperature (°C)	Capacity evaporating temperature (°C)										Power evaporating temperature (°C)							
		-10	-5	0	5		10		12		-10	-5	0	5		10		12	
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 ¹	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 ¹	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 ¹	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 ¹	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 ¹	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: ¹Available 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 ¹	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 ¹	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 ¹	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 ¹	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 ¹	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: ¹Available on TFD models only

The rating condition is based on the return gas temperature of 5°C.

Power includes condenser fan.

Ambient 38°C and 43°C are typical design conditions for unit selection.

ZXLD FAMILY: LOW TEMPERATURE

**R404A
(R507A)**

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					
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 ¹	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 ¹	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 ¹	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 ¹	27	6.49	7.45	8.79	10.48	12.47	14.75	17.28	20.02	22.94	5.23	5.63	5.96	6.24	6.52	6.82	7.17	7.61	8.17
	32	6.07	7.13	8.50	10.15	12.05	14.16	16.44	18.87	21.42	5.48	5.87	6.24	6.60	6.99	7.45	8.00	8.68	9.51
	38	5.49	6.64	8.02	9.59	11.33	13.19	15.15	17.18	19.23	6.72	7.04	7.37	7.74	8.18	8.73	9.41	10.25	11.30
	43	5.07	6.26	7.61	9.09	10.66	12.29	13.94	15.60	17.21	7.87	8.10	8.37	8.71	9.16	9.74	10.40	11.41	12.68
	48	4.81	6.01	7.31	8.66	10.04	11.40	12.73	13.98	15.13	8.89	8.99	9.16	9.44	9.86	10.45	11.15	12.24	13.63

Notes: ¹ 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 ¹	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 ¹	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 ¹	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 ¹	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 ¹	27	4.60	5.69	7.08	8.73	10.61	12.66	14.87	17.18	19.57	3.97	4.17	4.37	4.61	4.91	5.30	5.81	6.46	7.30		
	32	4.36	5.44	6.80	8.41	10.22	12.21	14.33	16.54	18.82	4.53	4.73	4.93	5.17	5.48	5.88	6.40	7.07	7.92		
	38	3.98	5.05	6.38	7.94	9.70	11.60	13.63	15.73	17.87	5.38	5.57	5.77	6.00	6.30	6.70	7.22	7.89	8.74		
	43	3.68	4.75	6.06	7.59	9.30	11.14	13.09	15.10	17.14	6.15	6.32	6.50	6.72	7.01	7.40	7.90	8.57	9.41		
	48	3.49	4.55	5.85	7.35	9.01	10.80				6.90	7.05	7.20	7.40	7.66	8.03					

Notes: ¹Available 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 evaporating temperature (°C)						Power 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 ¹	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 ¹	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 ¹	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 ¹	20	5.67	7.08	8.90	11.09	13.61	16.43	4.45	4.67	4.93	5.19	5.57	5.88
	27	5.57	6.95	8.71	10.81	13.22	15.89	4.90	5.13	5.42	5.70	6.11	6.44
	32	5.27	6.62	8.34	10.38	12.71	15.29	5.53	5.76	6.05	6.33	6.75	7.06
	38	4.80	6.13	7.81	9.79	12.04	14.50	6.49	6.70	6.99	7.25	7.67	7.95
	43	4.44	5.76	7.40	9.34	11.51	13.90	7.34	7.52	7.79	8.03	8.43	8.68
	48	4.20	5.51	7.13	9.02	11.14	13.45	8.14	8.28	8.52	8.73	9.11	9.32
	50	4.10	5.41	7.02	8.89	10.98	13.25	8.49	8.60	8.82	9.01	9.37	9.55

Notes: ¹Available on TF5/TF7 models only

The rating condition is based on a return gas temperature of 5°C.

Power includes condenser fan.

Ambient 38°C and 43°C are typical design conditions for unit selection.

ZX FAMILY: MEDIUM TEMPERATURE

Technical data at 50 Hz - PFJ

Family				ZX			
Nominal Rating		Horsepower	HP	2	2.5	3	4
Model Name				ZX020B0	ZX025B0	ZX030B0	ZX040B0
				ZX020BE	ZX025BE	ZX030BE	ZX040BE
Performance	R22	ET/AT/RGT	°C	-6.7/32/18.3			
		Capacity	kW	3.85	4.51	5.53	7.57
		COP	W/W	2.41	2.69	2.43	2.54
	R404A (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	Amp	13.2	14.6	16.4	20.0
		R404A (R507A)		13.2	14.6	16.4	20.0
		R407F		13.2	14.6	16.4	20.0
	Locked Rotor Ampere	R22	Amp	58.0	61.0	82.0	114.0
		R404A (R507A)		58.0	61.0	82.0	114.0
		R407F		58.0	61.0	82.0	114.0
	Oil Type	R22		MINERAL			
		R404A (R507A)		POE			
		R407F		POE			
	Oil Recharge Volume	R22/R404A (R507A)/R407F	Liters	1.18	1.33	1.33	1.83
Fan Motor	Number of Fan		Pieces	1	1	1	1
	Diameter		mm	450	450	450	450
	Fan Speed		rpm	933	933	933	933
	Air Flow	Total	m³/h	3483	3483	3483	3483
	Total Fan Motor Power	Input	W	116	116	116	116
Others	Oil Separator	Volume	Liters	0.5	0.5	0.5	0.5
	Receiver Volume	R22	kg	5.1	5.1	5.1	5.1
		R404A (R507A)		4.4	4.4	4.4	4.4
		R407F		4.5	4.5	4.5	4.5
	Pipes	Suction OD	Inch	3/4	3/4	3/4	3/4
		Liquid OD		1/2	1/2	1/2	1/2
	Dimension	W x D x H	mm	1029 x 424 x 840			
	Weight	Net	kg	76	79	79	100
		Gross		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	ZX030B0	ZX040B0	ZX050B0	ZX060B0	ZX075B0	ZX076B0
				ZX020BE	ZX030BE	ZX040BE	ZX050BE	ZX060BE	ZX075BE	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
	Sound Pressure Level	@1m	dB(A)	56			60			
Compressor	Rated Load Ampere	R22	Amp	4.3	5.7	7.4	8.9	11.5	12.0	12.0
		R404A (R507A)		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	Amp	26.0	36.0	44.3	58.6	67.0	101.0	101.0
		R404A (R507A)		26.0	36.0	44.3	58.6	67.0	101.0	101.0
		R407F		26.0	36.0	44.3	58.6	67.0	101.0	101.0
	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	1.66
Fan Motor	Number of Fan		Pieces	1	1	1	2	2	2	2
	Diameter		mm	450	450	450	450	450	450	450
	Fan Speed		rpm	830	830	830	830	830	830	830
	Air Flow	Total	m³/h	2922	2922	2922	5910	5910	5910	5910
	Total Fan Motor Power	Input	W	116	116	116	246	246	246	246
Others	Oil Separator	Volume	Liters	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Receiver Volume	R22	kg	5.1	5.1	5.1	7.2	7.2	7.2	7.2
		R404A (R507A)		4.4	4.4	4.4	6.3	6.3	6.3	6.3
		R407F		4.5	4.5	4.5	6.4	6.4	6.4	6.4
	Pipes	Suction OD	Inch	3/4	3/4	7/8	7/8	7/8	7/8	7/8
		Liquid OD		1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Dimension	W x D x H	mm	1029 x 424 x 840			1029 x 424 x 1242			
	Weight	Net	kg	76	79	100	108	112	118	121
		Gross		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	ZX030B0	ZX040B0	ZX050B0	ZX060B0	ZX075B0
				ZX020BE	ZX030BE	ZX040BE	ZX050BE	ZX060BE	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
	Sound Pressure Level	@1m	dB(A)	56		60			
Compressor	Rated Load Ampere	R22	Amp	-/8.9/5.0	-/11.4/7.5	-/15.0/9.3	-/20.7/10.7	-/20.7/10.7	-/25.0/12.1
		R404A (R507A)		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	Amp	-/55.0/27.0	-/77.0/39.0	-/115.0/54.0	-/128.0/64.0	-/156.0/70.0	-/164.0/100.0
		R404A (R507A)		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	450	450	450	450	450
	Fan Speed		rpm	933	933	933	933	933	933
	Air Flow	Total	m³/h	3483	3483	6966	6966	6966	6966
	Total Fan Motor Power	Input	W	145	145	290	290	290	290
Others	Oil Separator	Volume	Liters	0.5	0.5	0.5	0.5	0.5	0.5
	Receiver Volume	R22	kg	5.1	5.1	7.2	7.2	7.2	7.2
		R404A (R507A)		4.4	4.4	6.3	6.3	6.3	6.3
		R407F		4.5	4.5	6.4	6.4	6.4	6.4
	Pipes	Suction OD	Inch	3/4	3/4	3/4	3/4	3/4	3/4
		Liquid OD		1/2	1/2	1/2	1/2	1/2	1/2
	Dimension	W x D x H	mm	1029 x 424 x 840			1029 x 424 x 1242		
	Weight	Net	kg	76	79	100	108	112	121
		Gross		114	117	135	152	156	162

ZXB FAMILY: MEDIUM TEMPERATURE

Technical data at 50 Hz - TFD

Family				ZXB							
Nominal Rating		Horsepower	HP	1.5	2	2.5	3	3.5	4	5	5.5
Model Name				ZXB015BE	ZXB020BE	ZXB025BE	ZXB030BE	ZXB035BE	ZXB040BE	ZXB050BE	ZXB060BE
Power				3	3	3	3	3	3	3	3
Performance	R134a	ET/AT/RGT	°C	-6.7/32/18.3							
		Capacity	kW	3.20	3.76	3.92	4.96	6.61	7.23	8.52	9.38
		COP	W/W	2.73	3.01	2.74	2.86	2.88	2.94	2.91	2.65
	Sound Pressure Level	@1m	dB(A)	56					60		
Compressor	Rated Load Ampere	R134a	Amp	5.0	5.6	5.6	7.1	7.1	7.9	10.0	12.1
	Locked Rotor Ampere	R134a	Amp	39.2	39.2	39.2	51.5	51.5	51.5	74.0	101.0
	Oil Type	R134a		POE							
	Oil Recharge Volume	R134a		0.56	0.56	0.56	1.24	1.24	1.24	1.77	1.77
	Oil Initial Volume	R134a	Liters	0.74	0.74	0.74	1.36	1.36	1.36	1.89	1.89
Fan Motor	Number of Fan		Pieces	1	1	1	1	1	2	2	2
	Diameter		mm	450	450	450	450	450	450	450	450
	Fan Speed		rpm	830	830	830	830	830	830	830	830
	Air Flow	Total	m ³ /h	2922	2922	2922	2922	2922	5910	5910	5910
	Fan Motor Power	Input	W	116	116	116	116	116	246	246	246
Others	Oil Separator	Volume	Liters	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Receiver Volume	R134a	kg	5.1	5.1	5.1	5.1	5.1	7.2	7.2	7.2
	Pipes	Suction OD	Inch	3/4	3/4	3/4	7/8	7/8	7/8	7/8	7/8
		Liquid OD		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Dimension	W x D x H	mm	1029 x 424 x 840					1029 x 424 x 1242		
	Weight	Net	kg	79	81	81	93	93	106	116	121
		Gross		117	119	119	131	131	150	160	165

ZXD FAMILY: DIGITAL MEDIUM TEMPERATURE

Technical data at 50 Hz - TFD

Family				ZXD									
Nominal Rating	Horsepower HP			3	4	5	6	7.5	7.6	9	12	16	20
Model Name				ZXD030B0	ZXD040B0	ZXD050B0	ZXD060B0	ZXD075B0	ZXD076B0				
				ZXD030BE	ZXD040BE	ZXD050BE	ZXD060BE	ZXD075BE	ZXD076BE	ZXD090BE	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									
		Capacity	kW	5.82	8.30	10.70	11.80	13.20	13.46	15.5	24.22	29.81	37.86
		COP	W/W	2.45	2.47	2.43	2.41	2.43	2.49	2.28	2.41	2.37	2.34
	R407F	ET/AT/ RGT	°C	-6.7/32/18.3									
		Capacity	kW	6.04	8.28	10.34	11.26	13.63	13.90	/	/	/	/
		COP	W/W	2.47	2.71	2.73	2.46	2.40	2.50	/	/	/	/
	Sound Pressure Level	@1m	dB(A)	56	60					62	65	69	72
Compressor	Rated Load Ampere	R22	Amp	7.4	7.9	10.0	10.0	12.1	12.1	/	/	/	/
		R404A (R507A)	Amp	7.4	7.7	10.4	12.4	12.4	12.4	14.6	9.6+10.1	11.1 + 11.1	14.6 + 14.6
		R407F	Amp	7.4	7.9	10.0	12.1	12.1	12.1	/	/	/	/
	Locked Rotor Ampere	R22	Amp	40.0	48.0	64.0	74.0	100.0	100.0	/	/	/	/
		R404A (R507A)	Amp	40.0	48.0	64.0	74.0	100.0	100.0	102	74	74	102
		R407F	Amp	40.0	48.0	64.0	74.0	100.0	100.0	/	/	/	/
	Oil Type	R22		MINERAL									
		R404A (R507A)		POE									
		R407F		POE									
	Oil Recharge Volume	R22/ R404A (R507A)/ R407F	Liters	1.12	1.24	1.77	1.77	1.77	1.77	1.89	1.9+1.8	1.9 + 1.9	1.9 + 1.9
Fan Motor	Number of Fan		Pieces	1	3	2	2	2	2	2	2	2	3
	Diameter		mm	450	450	450	450	450	450	450	590	590	600
	Fan Speed		rpm	830	830	830	830	830	830	830	850	850	860
	Air Flow	Total	m³/h	2922	5910	5910	5910	5910	5910	5910	19280	19280	23400
	Total Fan Motor Power	Input	W	116	246	246	246	246	246	246	950	950	1350
Others	Oil Separator	Volume	Liters	0.5	0.5	0.5	0.5	0.5	0.5	0.5	2.5	2.5	3
	Receiver Volume	R22	kg	5.1	7.2	7.2	7.2	7.2	7.2	/	/	/	/
		R404A (R507A)	kg	4.4	6.3	6.3	6.3	6.3	6.3	6.3	17	17	17
		R407F	kg	4.5	6.4	6.4	6.4	6.4	6.4	/	/	/	/
	Pipes	Suction OD	Inch	3/4	7/8	7/8	7/8	7/8	7/8	7/8	1 3/8	1 3/8	1 3/8
		Liquid OD	Inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	3/4
	Dimension	W x D x H	mm	1029 x 424 x 840	1029 x 424 x 1242						1619 x 1010 x 1124		2033 x 857 x 1913
	Weight	Net	kg	85	104	112	114	119	122	138	357	362	470
Gross		kg	123	148	156	158	163	171	158	457	462	550	

ZXD FAMILY: DIGITAL MEDIUM TEMPERATURE

Technical data at 60 Hz - TF5/TF7

Nominal Rating	Family			ZXD				
		Horsepower	HP	3	4	5	6	7.5
Model Name				ZXD030B0	ZXD040B0	ZXD050B0	ZXD060B0	ZXD075B0
				ZXD030BE	ZXD040BE	ZXD050BE	ZXD060BE	ZXD075BE
Performance	R22	ET/AT/RGT	°C	-6.7/32/18.3				
		Capacity	kW	5.93	8.46	10.84	12.79	13.99
		COP	W/W	2.39	2.45	2.45	2.43	2.40
	R404A (R507A)	ET/AT/RGT	°C	-10/32/18.3				
		Capacity	kW	6.33	8.70	10.77	12.54	13.84
		COP	W/W	2.23	2.18	2.11	2.12	2.08
	R407F	ET/AT/RGT	°C	-10/32/18.3				
		Capacity	kW	6.66	8.06	9.98	11.53	14.46
		COP	W/W	2.33	2.11	2.13	2.13	2.04
	Sound Pressure Level	@1m	dB(A)	56	60			
Compressor	Rated Load Ampere	R22	Amp	-/6.1	17.1/9.3	20.7/10.7	20.7/12.5	25.0/14.3
		R404A (R507A)		-/6.1	16.7/9.6	23.7/11.6	25.4/12.9	30.0/14.6
		R407F		-/6.1	16.7/9.6	23.7/11.6	25.4/12.9	30.0/14.6
	Locked Rotor Ampere	R22	Amp	-/38	110.0/54.0	137.0/64.0	156.0/70.0	164.0/78.0
		R404A (R507A)		-/38	110.0/54.0	137.0/64.0	156.0/70.0	164.0/78.0
		R407F		-/38	110.0/54.0	137.0/64.0	156.0/70.0	164.0/78.0
	Oil Type	R22		MINERAL				
		R404A (R507A)		POE				
		R407F		POE				
	Oil Recharge Volume	R22/R404A (R507A)/R407F	Liters	1.12	1.24	1.77	1.77	1.77
Fan Motor	Number of Fan		Pieces	1	2	2	2	2
	Diameter		mm	450	450	450	450	450
	Fan Speed		rpm	830	933	933	933	933
	Air Flow	Total	m³/h	2922	6966	6966	6966	6966
	Total Fan Motor Power	Input	W	116	290	290	290	290
Others	Oil Separator	Volume	Liters	0.5	0.5	0.5	0.5	0.5
	Receiver Volume	R22	kg	5.1	7.2	7.2	7.2	7.2
		R404A (R507A)		4.4	6.3	6.3	6.3	6.3
		R407F		4.5	6.4	6.4	6.4	6.4
	Pipes	Suction OD	Inch	3/4	7/8	7/8	7/8	7/8
		Liquid OD		1/2	1/2	1/2	1/2	1/2
	Dimension	W x D x H	mm	1029 x 424 x 840	1029 x 424 x 1242			
	Weight	Net	kg	85	109	117	121	127
		Gross		123	148	156	158	163

ZXL FAMILY: LOW TEMPERATURE

Technical data at 50 Hz - PFJ

Nominal Rating	Family			ZXL		
		Horsepower	HP	2	2.5	3
Model Name				ZXL020B0	ZXL025B0	ZXL030B0
				ZXL020BE	ZXL025BE	ZXL030BE
Performance	R22	ET/AT/RGT	°C	-32/32/5°C		
		Capacity	kW	1.72	1.91	2.34
		COP	W/W	1.2	1.17	1.28
	R404A (R507A)	ET/AT/RGT	°C	-32/32/5°C		
		Capacity	kW	2.11	2.51	2.8
		COP	W/W	1.24	1.28	1.29
	R407F	ET/AT/RGT	°C	-32/32/5°C		
		Capacity	kW	1.86	2.29	2.6
		COP	W/W	0.99	1.02	1.02
	Sound Pressure Level	@1m	dB(A)	56		
Compressor	Rated Load Ampere TF5	R22	Amp	12.7	13.3	15.1
		R404A (R507A)		12.7	13.3	15.1
		R407F		12.7	13.3	15.1
	Locked Rotor Ampere TF7	R22	Amp	56.6	73.7	82.3
		R404A (R507A)		56.6	73.7	82.3
		R407F		56.6	73.7	82.3
	Oil Type	R22		MINERAL		
		R404A (R507A)		POE		
		R407F		POE		
	Oil Recharge Volume	R22/R404A (R507A)/R407F	Liters	0.56	0.56	0.56
Fan Motor	Number of Fan		Pieces	1	1	1
	Diameter		mm	450	450	450
	Fan Speed		rpm	830	830	830
	Air Flow	Total	m³/h	2922	2922	2922
	Total Fan Motor Power	Input	W	116	116	116
Others	Oil Separator	Volume	Liters	0.5	0.5	0.5
	Receiver Volume	R22	kg	5.1	5.1	7.5.1
		R404A (R507A)		4.4	4.4	4.4
		R407F		4.5	4.5	4.5
	Pipes	Suction OD	Inch	3/4	3/4	3/4
		Liquid OD		1/2	1/2	1/2
	Dimension	W x D x H	mm	1029 x 424 x 840		
	Weight	Net	kg	79	81	81
		Gross		117	119	119

ZXL FAMILY: LOW TEMPERATURE

Technical data at 50 Hz - TFD

Nominal Rating	Family			ZXL							
		Horsepower	HP	2	2.5	3	3.5	4	5	6	7.5
Model Name				ZXL020B0	ZXL025B0	ZXL030B0	ZXL035B0	ZXL040B0	ZXL050B0	ZXL060B0	ZXL075B0
				ZXL020BE	ZXL025BE	ZXL030BE	ZXL035BE	ZXL040BE	ZXL050BE	ZXL060BE	ZXL075BE
Performance	R22	ET/AT/RGT	°C	-32/32/5°C							
		Capacity	kW	1.72	1.91	2.34	2.78	3.57	4.05	4.96	5.39
		COP	W/W	1.20	1.17	1.28	1.26	1.24	1.29	1.27	1.28
	R404A (R507A)	ET/AT/RGT	°C	-32/32/5°C							
		Capacity	kW	2.11	2.51	2.8	3.65	4.26	4.99	5.91	6.65
		COP	W/W	1.24	1.28	1.29	1.34	1.29	1.36	1.33	1.38
	R407F	ET/AT/RGT	°C	-32/32/5°C							
		Capacity	kW	1.86	2.29	2.60	3.61	4.25	4.61	5.66	6.25
		COP	W/W	0.99	1.02	1.02	1.34	1.29	1.26	1.27	1.29
	Sound Pressure Level	@1m	dB(A)	56					60		
Compressor	Rated Load Ampere	R22	Amp	5.4	5.5	5.7	7.4	8.1	8.8	11.1	12.1
		R404A (R507A)		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	Amp	39.2	39.2	39.2	51.5	51.5	51.5	74.0	101.0
		R404A (R507A)		39.2	39.2	39.2	51.5	51.5	51.5	74.0	101.0
		R407F		39.2	39.2	39.2	51.5	51.5	51.5	74.0	101.0
	Oil Type	R22		Mineral							
		R404A (R507A)		POE							
		R407F		POE							
	Oil Recharge Volume	R22/R404A (R507A)/R407F	Liters	0.56	0.56	0.56	1.24	1.24	1.24	1.77	1.77
Fan Motor	Number of Fan		Pieces	1	1	1	1	1	2	2	2
	Diameter		mm	450	450	450	450	450	450	450	450
	Fan Speed		rpm	830	830	830	830	830	830	830	830
	Air Flow	Total	m³/h	2922	2922	2922	2922	2922	5910	5910	5910
	Total Fan Motor Power	Input	W	116	116	116	116	116	246	246	246
Others	Oil Separator	Volume	Liters	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Receiver Volume	R22	kg	5.1	5.1	5.1	5.1	5.1	7.2	7.2	7.2
		R404A (R507A)		4.4	4.4	4.4	4.4	4.4	6.3	6.3	6.3
		R407F		4.5	4.5	4.5	4.5	4.5	6.4	6.4	6.4
	Pipes	Suction OD	Inch	3/4	3/4	3/4	7/8	7/8	7/8	7/8	7/8
		Liquid OD		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Dimension	W x D x H	mm	1029 x 424 x 840					1029 x 424 x 1242		
	Weight	Net	kg	79	81	81	93	93	106	116	121
		Gross		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	12	16	20
Model Name				ZXLD090BE	ZXLD120BE	ZXLD160BE	ZXLD200BE
Performance	R404A (R507A)	ET/AT/RGT	°C	-32/32/5	-32/32/5	-32/32/5	-32/32/5
		Capacity	kW	7.24	11.76	15.72	17.91
		COP	W/W	1.38	1.30	1.42	1.52
	Sound Pressure Level	@1m	dB(A)	62	69	69	72
Compressor	Rated Load Ampere	R404A (R507A)	Amp	14.6	11.1+11.1	14.6 + 14.6	14.6 + 14.6
	Locked Rotor Ampere	R404A (R507A)	Amp	102	74	102	121
	Oil Type	R404A (R507A)		POE			
	Oil Recharge Volume		Liters	1.89	1.9 + 1.9	1.9 + 1.9	1.9 + 1.9
Fan Motor	Number of Fan		Pieces	2	2	2	3
	Diameter		mm	450	590	590	600
	Fan Speed		rpm	830	850	850	860
	Air Flow	Total	m³/h	5910	19280	19280	23400
	Total Fan Motor Power	Input	W	246	950	950	1350
Others	Oil Separator	Volume	Liters	0.5	2.5	2.5	3
	Receiver Volume (at 32°C)		kg	6.3	17	17	17
	Pipes	Suction OD	Inch	7/8	1 3/8	1 3/8	1 3/8
		Liquid OD		1/2	3/4	3/4	3/4
	Dimension	W x D x H	mm	1029 x 424 x 1242	1619 x 1010 x 1124		2033 x 857 x 1913
	Weight	Net	kg	138	362	362	470
		Gross		158	462	462	550

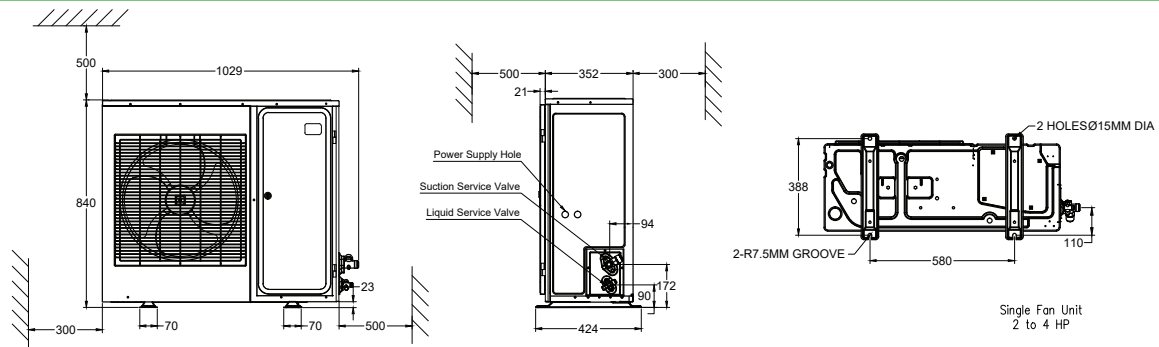
ZXL FAMILY: LOW TEMPERATURE

Technical data at 60 Hz - PFV/TF5/TF7

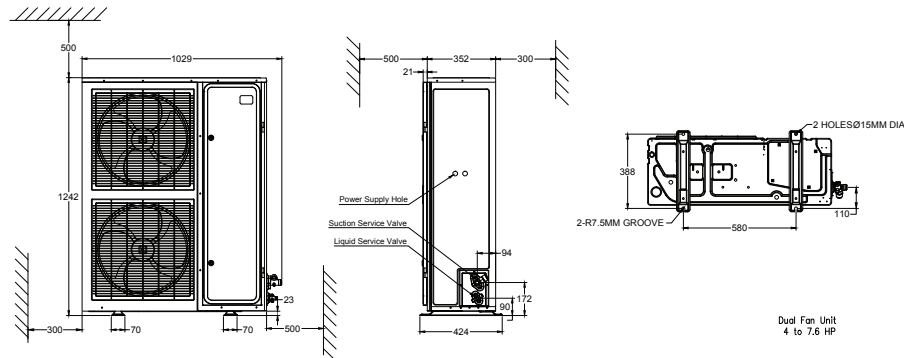
Nominal Rating	Family			ZXL							
		Horsepower	HP	2	2.5	3	3.5	4	5	6	7.5
Model Name				ZXL020B0	ZXL025B0	ZXL030B0	ZXL035B0	ZXL040B0	ZXL050B0	ZXL060B0	ZXL075B0
				ZXL020BE	ZXL025BE	ZXL030BE	ZXL035BE	ZXL040BE	ZXL050BE	ZXL060BE	ZXL075BE
Performance	R22	ET/AT/RGT	°C	-32/32/5°C							
		Capacity	kW	2.09	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
		COP	W/W	1.12	1.15	1.32	1.33	1.33	1.44	1.29	1.32
	R407F	ET/AT/RGT	°C	-32/32/5°C							
		Capacity	kW	2.28	2.80	3.18	4.42	5.20	5.64	6.93	7.65
		COP	W/W	0.99	1.02	1.02	1.34	1.29	1.26	1.27	1.29
	Sound Pressure Level	@1m	dB(A)	56				60			
Compressor	Rated Load Ampere	R22	Amp	-12.1/5.4	-12.6/5.5	-12.9/6.9	-19.1/7.7	-20.0/9.9	-21.4/12.6	-25.5/14.1	-28.9/14.4
		R404A (R507A)		16.4/12.1/5.6	-12.6/6.2	-12.6/6.9	26.4/19.1/8.6	30.4/20.0/9.9	34.1/21.4/12.6	-25.5/14.1	-28.9/14.4
		R407F		-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	R22	Amp	-73.0/34.8	-73.0/34.8	-73.0/38.6	-110.0/47.0	-110.0/66.0	-110.0/73.5	-186.6/94.3	-191.0/94.3
		R404A (R507A)		68.0/73.0/34.8	-73.0/34.8	-73.0/38.6	137.0/110.0/47.0	141.0/110.0/66.0	176.0/110.0/73.5	-186.6/94.3	-191.0/94.3
		R407F		-73.0/34.8	-73.0/34.8	-73.0/38.6	-110.0/47.0	-110.0/66.0	-110.0/73.5	-186.6/94.3	-191.0/94.3
	Oil Type	R22		POE							
		R404A (R507A)		POE							
		R407F		POE							
	Oil Recharge Volume	R22/R404A (R507A)/R407F	Liters	0.56	0.56	0.56	1.24	1.24	1.24	1.77	1.77
Fan Motor	Number of Fan		Pieces	1	1	1	1	2	2	2	2
	Diameter		mm	450	450	450	450	450	450	450	450
	Fan Speed		rpm	933	933	933	933	933	933	933	933
	Air Flow	Total	m³/h	3483	3483	3483	3483	6966	6966	6966	6966
	Total Fan Motor Power	Input	W	145	145	145	145	290	290	290	290
Others	Oil Separator	Volume	Liters	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Receiver Volume	R22	kg	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
		R404A (R507A)		4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
		R407F		4.5	4.5	4.5	4.5	6.4	6.4	6.4	6.4
	Pipes	Suction OD	Inch	3/4	3/4	3/4	7/8	7/8	7/8	7/8	7/8
		Liquid OD		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Dimension	W x D x H	mm	1029 x 424 x 840				1029 x 424 x 1242			
	Weight	Net	kg	79	81	81	93	93	106	116	121
		Gross		117	119	119	131	143	150	165	170

Dimensional drawings

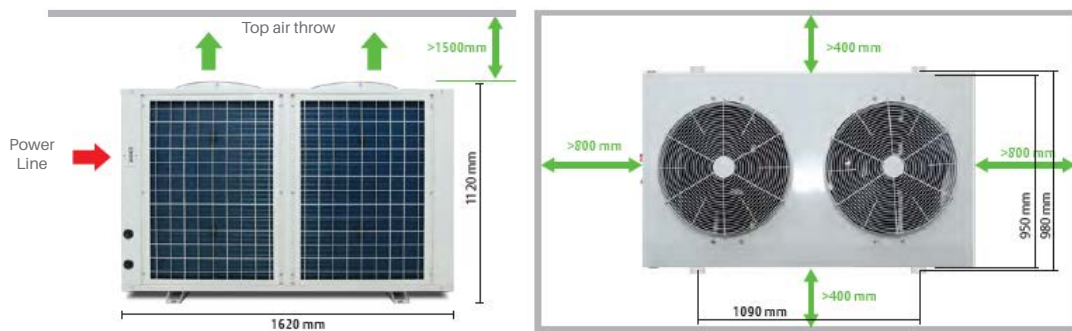
ZX-PFJ (2 HP-4 HP)
 ZX-TFD (2HP-4HP), ZX-PFV/TF5/TF7 (2HP-3HP), ZXB-TFD (1.5HP-3.5HP)
 ZXL-PFJ (2HP-3HP)
 ZXL-TFD (2HP-4HP), ZXL-PFV (2HP, 3.5HP), ZXL-TF5/7 (2HP-3.5HP)
 ZXD-TFD (3HP), ZXD-TF7(3HP)



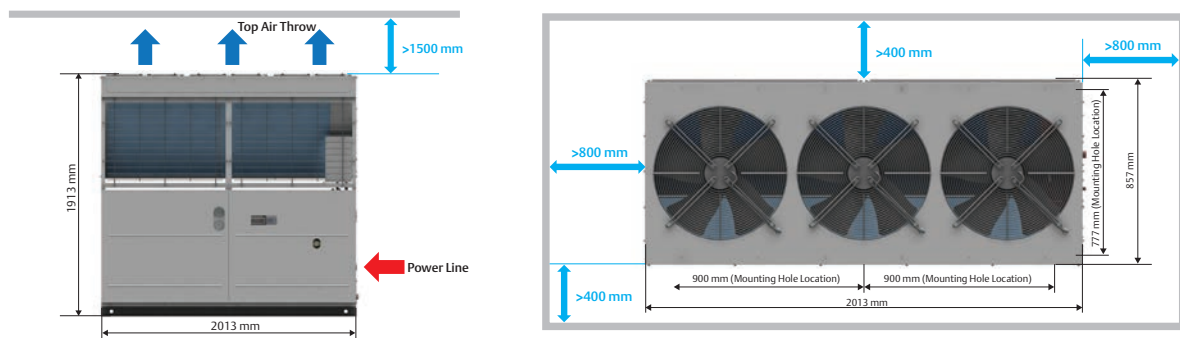
ZX-TFD (5HP-7.6HP), ZX-PFV (4HP-5HP), ZX-TF5/7 (4HP-7.5HP), ZXB-TFD (4HP-6HP)
 ZXL-TFD (5HP-7.5HP), ZXL-PFV (4HP-5HP), ZXL-TF5/7 (4HP-7.5HP),
 ZXD-TFD (4HP-9HP), ZXD-TF5/7 (4HP-7.5HP), ZXLD-TFD (9HP)



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



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



Fixing dimension and distance – Top air throw unit

Packing information

Container loading, ZX Platform condensing unit					
Family	Model	Motor code	Fan type	20FT	40FT/ 40FT H
ZX/ZXB	ZXB015BE	TFD	Single Fan	40	80
	ZXB020BE / ZX020B0(E)	PFJ/TFD/PFV/TF5/TF7		40	80
	ZXB025BE / ZX025B0(E)	PFJ/TFD		40	80
	ZXB030BE / ZX030B0(E)	PFJ/TFD/PFV/TF5/TF7		40	80
	ZXB035BE	TFD		40	80
	ZX040B0(E)	PFJ		40	80
	ZXB040BE / ZX040B0(E)	TFD/PFV/TF5/TF7	Dual Fan	20	40
	ZXB050BE / ZX050B0(E)	TFD/PFV/TF5/TF7		20	40
	ZXB060BE	TFD		20	40
	ZX060B0(E)	TFD/TF5/TF7		20	40
	ZX075B0(E)	TFD/TF5/TF7		20	40
	ZX076B0(E)	TFD/TF5/TF7		20	40
ZXD	ZXD030B0(E)	TFD/TF7	Single Fan	40	80
	ZXD040B0(E)	TFD/TF5/TF7	Dual Fan	20	40
	ZXD050B0(E)	TFD/TF5/TF7		20	40
	ZXD060B0(E)	TFD/TF5/TF7		20	40
	ZXD075B0(E)	TFD/TF5/TF7		20	40
	ZXD076B0(E)	TFD/TF5/TF7		20	40
	ZXD090BE	TFD		20	40
	ZXD120BE	TFD	Top air throw	6	13
	ZXD160BE	TFD		6	13
	ZXD200BE	TFD		5 ¹	11 ¹
ZXL/ZXLD	ZXL020B0(E)	PFJ/TFD/TF5/TF7	Single Fan	40	80
	ZXL025B0(E)	PFJ/TFD/TF5/TF7		40	80
	ZXL030B0(E)	PFJ/TFD/TF5/TF7		40	80
	ZXL035B0(E)	TFD/TF5/TF7		40	80
	ZXL040B0(E)	TFD		40	80
	ZXL040B0(E)	TF5/TF7	Dual Fan	20	40
	ZXL050B0(E)	TFD/TF5/TF7		20	40
	ZXL060B0(E)	TFD/TF5/TF7		20	40
	ZXL075B0(E)	TFD/TF5/TF7		20	40
	ZXLD090BE	TFD		20	40
	ZXLD120BE	TFD	Top air throw	6	13
	ZXLD160BE	TFD		6	13
	ZXLD200BE	TFD		5 ¹	11 ¹

Note: ¹High 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 HP 62	R407F Vapor	R407F Liquid	R407A Vapor	R407A Liquid	R407C Vapor	R407C Liquid	R408A	R410A	R502	R507A AZ50"	°F
-45.6	0.63	0.21	0.00	-0.26	0.03	0.30	0.03	0.37	0.09	0.07	0.34	-0.03	0.06	-50.0
-44.4	0.61	0.16	0.05	-0.22	0.08	0.26	0.03	0.33	0.04	0.02	0.41	0.02	0.12	-48.0
-43.3	0.59	0.12	0.11	-0.17	0.14	0.22	0.08	0.29	0.01	0.04	0.48	0.08	0.18	-46.0
-42.2	0.56	0.06	0.17	-0.12	0.20	0.17	0.14	0.25	0.07	0.10	0.57	0.14	0.24	-44.0
-41.1	0.53	0.01	0.23	-0.07	0.27	0.12	0.21	0.20	0.13	0.15	0.65	0.19	0.30	-42.0
-40.0	0.50	0.04	0.30	-0.02	0.34	0.07	0.27	0.16	0.19	0.21	0.74	0.26	0.37	-40.0
-38.9	0.47	0.10	0.37	0.04	0.41	0.01	0.34	0.11	0.26	0.28	0.83	0.32	0.44	-38.0
-37.8	0.44	0.15	0.43	0.10	0.48	0.04	0.41	0.06	0.32	0.34	0.92	0.39	0.52	-36.0
-36.7	0.41	0.21	0.51	0.16	0.56	0.10	0.48	0.00	0.39	0.41	1.01	0.46	0.59	-34.0
-35.6	0.37	0.28	0.59	0.22	0.64	0.16	0.56	0.06	0.46	0.48	1.12	0.53	0.68	-32.0
-34.4	0.33	0.34	0.66	0.29	0.72	0.23	0.63	0.11	0.53	0.55	1.22	0.60	0.75	-30.0
-33.3	0.29	0.41	0.74	0.36	0.80	0.29	0.72	0.17	0.61	0.63	1.33	0.68	0.84	-28.0
-32.2	0.25	0.48	0.83	0.43	0.89	0.36	0.80	0.23	0.69	0.71	1.44	0.76	0.93	-26.0
-31.1	0.21	0.55	0.92	0.51	0.98	0.43	0.89	0.30	0.77	0.79	1.56	0.84	1.02	-24.0
-30.0	0.17	0.63	1.01	0.59	1.08	0.51	0.98	0.37	0.86	0.88	1.68	0.93	1.12	-22.0
-28.9	0.13	0.70	1.10	0.67	1.18	0.59	1.08	0.45	0.94	0.97	1.81	1.01	1.21	-20.0
-27.8	0.08	0.79	1.20	0.75	1.28	0.67	1.17	0.52	1.04	1.06	1.94	1.11	1.32	-18.0
-26.7	0.03	0.87	1.30	0.84	1.39	0.75	1.28	0.60	1.14	1.15	2.07	1.20	1.42	-16.0
-25.6	0.02	0.96	1.41	0.93	1.50	0.84	1.38	0.68	1.23	1.25	2.21	1.30	1.53	-14.0
-24.4	0.08	1.05	1.52	1.03	1.61	0.93	1.49	0.77	1.34	1.35	2.35	1.40	1.64	-12.0
-23.3	0.13	1.14	1.63	1.13	1.73	1.03	1.60	0.85	1.44	1.46	2.50	1.51	1.76	-10.0
-22.2	0.19	1.23	1.74	1.23	1.85	1.12	1.72	0.94	1.55	1.57	2.66	1.61	1.88	-8.0
-21.1	0.25	1.34	1.86	1.34	1.98	1.23	1.83	1.03	1.67	1.68	2.81	1.73	2.00	-6.0
-20.0	0.32	1.44	1.99	1.45	2.11	1.33	1.96	1.13	1.79	1.79	2.98	1.84	2.13	-4.0
-18.9	0.38	1.54	2.12	1.56	2.24	1.44	2.09	1.23	1.91	1.91	3.15	1.96	2.26	-2.0
-17.8	0.45	1.66	2.25	1.68	2.38	1.55	2.22	1.34	2.03	2.03	3.32	2.08	2.40	0.0
-16.7	0.52	1.77	2.39	1.80	2.52	1.67	2.36	1.45	2.17	2.16	3.50	2.21	2.54	2.0
-15.6	0.59	1.89	2.52	1.93	2.67	1.79	2.50	1.56	2.30	2.29	3.69	2.34	2.68	4.0
-14.4	0.66	2.01	2.67	2.06	2.82	1.92	2.65	1.68	2.43	2.43	3.88	2.48	2.83	6.0
-13.3	0.74	2.14	2.82	2.20	2.98	2.05	2.80	1.80	2.58	2.57	4.08	2.61	2.99	8.0
-12.2	0.82	2.26	2.97	2.34	3.14	2.18	2.95	1.92	2.72	2.71	4.29	2.76	3.15	10.0
-11.1	0.90	2.40	3.13	2.48	3.31	2.32	3.11	2.05	2.88	2.86	4.50	2.90	3.31	12.0
-10.0	0.99	2.54	3.30	2.63	3.48	2.46	3.28	2.19	3.03	3.01	4.72	3.06	3.48	14.0
-8.9	1.08	2.68	3.46	2.79	3.66	2.61	3.45	2.32	3.19	3.17	4.94	3.21	3.66	16.0
-7.8	1.17	2.82	3.63	2.94	3.84	2.76	3.62	2.46	3.36	3.32	5.17	3.37	3.83	18.0
-6.7	1.27	2.97	3.81	3.11	4.03	2.92	3.80	2.61	3.53	3.49	5.41	3.53	4.01	20.0
-5.6	1.37	3.12	4.00	3.28	4.22	3.08	3.99	2.77	3.71	3.66	5.65	3.70	4.21	22.0
-4.4	1.47	3.28	4.19	3.45	4.42	3.25	4.18	2.92	3.89	3.84	5.90	3.88	4.40	24.0
-3.3	1.58	3.45	4.38	3.63	4.63	3.42	4.37	3.08	4.08	4.02	6.15	4.06	4.60	26.0
-2.2	1.69	3.61	4.58	3.82	4.84	3.60	4.57	3.25	4.27	4.21	6.42	4.23	4.80	28.0
-1.1	1.80	3.79	4.78	4.01	5.05	3.78	4.78	3.42	4.46	4.39	6.69	4.43	5.01	30.0
0.0	1.92	3.97	4.99	4.21	5.28	3.97	4.99	3.59	4.67	4.59	6.97	4.62	5.23	32.0
1.1	2.03	4.15	5.21	4.41	5.51	4.17	5.21	3.78	4.88	4.79	7.26	4.81	5.45	34.0
2.2	2.16	4.34	5.43	4.62	5.74	4.37	5.43	3.97	5.09	5.00	7.55	5.02	5.68	36.0
3.3	2.28	4.53	5.66	4.84	5.98	4.57	5.67	4.16	5.31	5.21	7.86	5.23	5.91	38.0
4.4	2.41	4.73	5.89	5.06	6.23	4.79	5.90	4.36	5.53	5.43	8.17	5.44	6.15	40.0
5.6	2.55	4.93	6.12	5.29	6.48	5.00	6.14	4.56	5.77	5.65	8.48	5.66	6.39	42.0
6.7	2.69	5.14	6.37	5.52	6.74	5.23	6.40	4.77	6.00	5.88	8.81	5.89	6.65	44.0
7.8	2.83	5.35	6.62	5.76	7.01	5.46	6.66	4.99	6.25	6.12	9.14	6.12	6.90	46.0
8.9	2.98	5.57	6.88	6.01	7.28	5.70	6.92	5.21	6.50	6.36	9.48	6.35	7.17	48.0

Pressure temperature chart at sea level

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

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