

ZX Platform Condensing Unit

Product Catalogue



Copeland[™]
brand products


EMERSON[™]
Climate Technologies

About Emerson Climate Technologies

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

Emerson's financial performance is embellished with a record of unmissed annual dividend for 55 consecutive years.

For FY11, Emerson was ranked No. 120 on Fortune 500, a list of America's largest companies, and placed No. 1 in the same list's Electronics and Equipment category.

The company invested approximately \$696 million in engineering, development and customer solutions development producing 773 patents worldwide from FY04 to FY10.

In 2010, 37% of the company's global sales from new products are due to the application of innovative technologies.

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

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



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

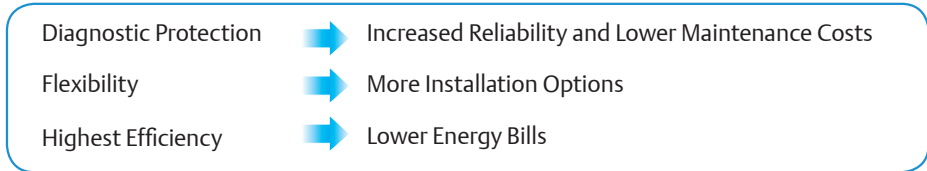
Energy Efficiency - Utilizing Copeland Scroll® compressor technology, variable speed fan motor, large capacity condenser coil and advanced control algorithms, energy consumption is significantly reduced. End-users can save more than 20% on annual energy costs rather than using hermetic reciprocating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

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

Flexibility - The slim shape and light weight make the ZX Condensing Unit aesthetically appealing and easy to install. The ultra quiet variable-speed fan motor significantly reduces exterior sound levels, allowing additional location flexibility. Combined with wall mounting capability, the ZX Condensing Unit delivers unmatched flexibility.

ZX Condensing Units are greatly suitable for walk-in cooler and freezer applications.

The advance scroll compressor technology, fan speed control and electronic controller are precisely collaborated in all units. It also introduces variable-speed fan motors that go beyond national standards. Guaranteed dependable performance and operation in food service applications while conveying higher energy efficiency and lower sound levels are the main objectives.



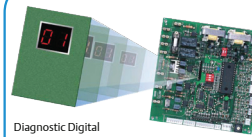
ZXD Series



- Shuts down unit during failure
- With real time monitoring of compressor operating conditions

ZX and ZXL Series

Proprietary Electronic Algorithms to Control Fan Speed, Optimizing Energy Performance for Local Seasonal Ambient Temperatures

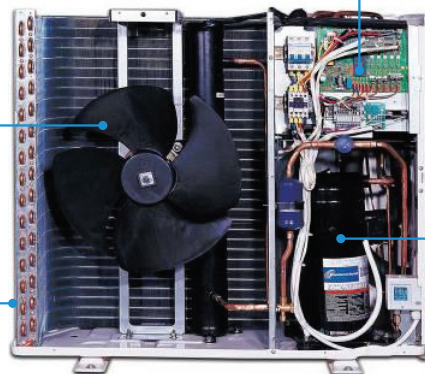


- Compressor Reverse Rotation
- Compressor Over Current
- Compressor Internal Motor Protector Trip
- Discharge Gas Over Heat
- High Pressure Cut Out
- Low Pressure Cut Out (only on MT series)
- Refrigerant Flood Back
- Compressor Minimum Off Time
- Internal Thermal Sensor Failure

Variable Speed PSC Fan Motors

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

Oversized Condenser Coil for Maximum Heat Transfer



Copeland Scroll Compressor Technology

- High Efficiency
- Ultra Quiet
- High Reliability

ZX Platform CDU Features

Features	Owner/Enterprise Benefits
Energy improvement	<ul style="list-style-type: none"> • Lower operating costs
Sound improvement	<ul style="list-style-type: none"> • Creates a more comfortable environment for guests • Beneficial for regions with noise ordinances
Diagnostic protection capabilities	<ul style="list-style-type: none"> • Reduces cost of nuisance calls • Extends life of your equipment • Reduces potential service costs • Maintains your equipment to original standards, maintaining energy efficiency and temperature control • Have confidence in what your contractor is fixing
Slim profile, lighter weight and optional wall mount capability	<ul style="list-style-type: none"> • Lower installation costs • Improved appearance of your enterprise site • Avoids more costly solutions for potential location issues

Nomenclature

Z	X	L	0	2	0	E	-	T	F	D	-	4	5	1
Unit Family	= Medium Temp L = Low Temp D = Digital Medium Temp	2.0 to 7.6 HP	E = Ester oil O = Mineral Oil	PFJ = 220V/240V- 1ph- 50 Hz 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			

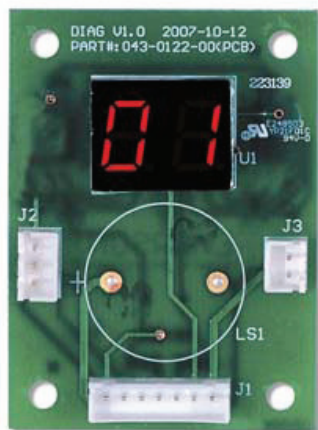
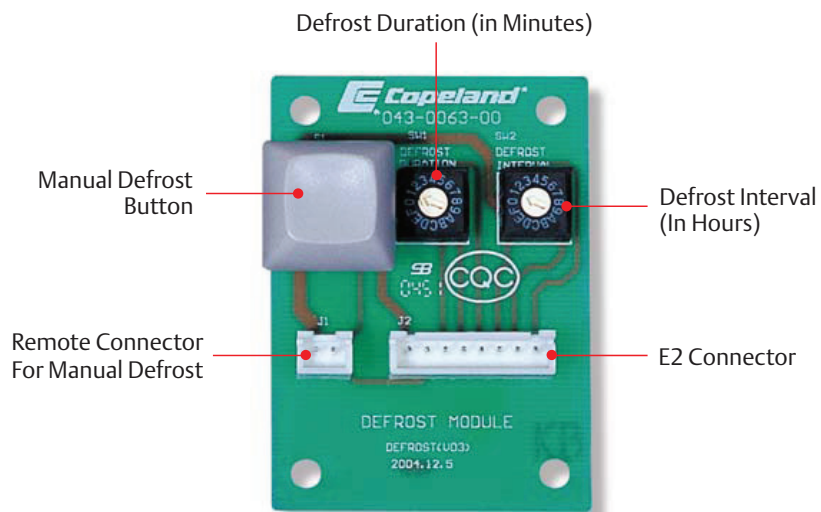
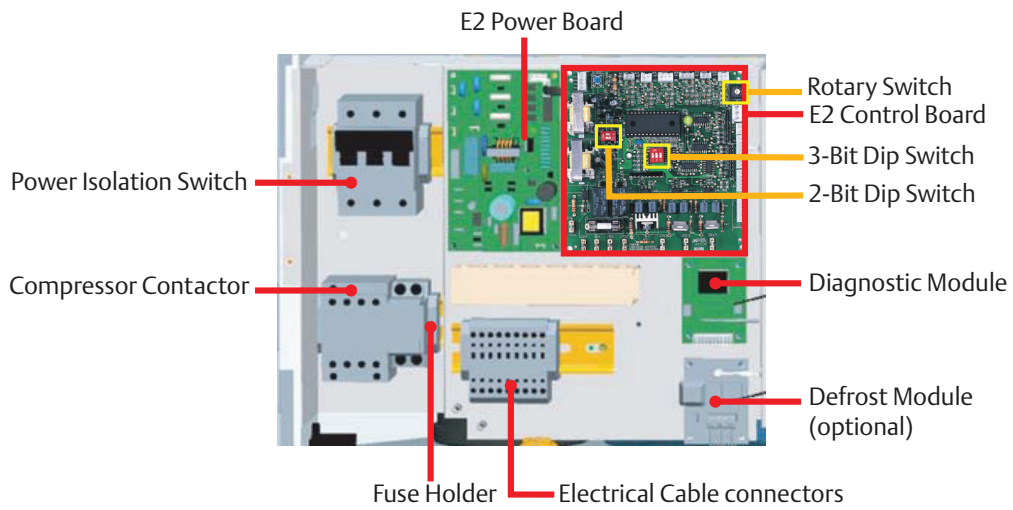
BOM

CDU Family	ZX		ZXL			ZXD		
BOM	401	451	451	461	471	450	451	461
Liquid Line Filter Dryer/Sight Glass								
Oil Separator								
Accumulator								
Adjustable LP Switch								
Fixed LP Switch								
E2 Controller								
Diagnostic Module								
Buzzer								
Digital Scroll Controller								
Fan Speed Controller								
Circuit Breaker								
Sound Jacket								
Defrost Module	ACC	ACC	ACC		ACC			
Filter Drier					V			

Notes: E2 controller has fan speed control function
 "V" indicates flare type connection
 "ACC" indicates accessory

Electronic Controller Assembly on a ZX Platform CDU

ZX/ZXL Controller Assembly

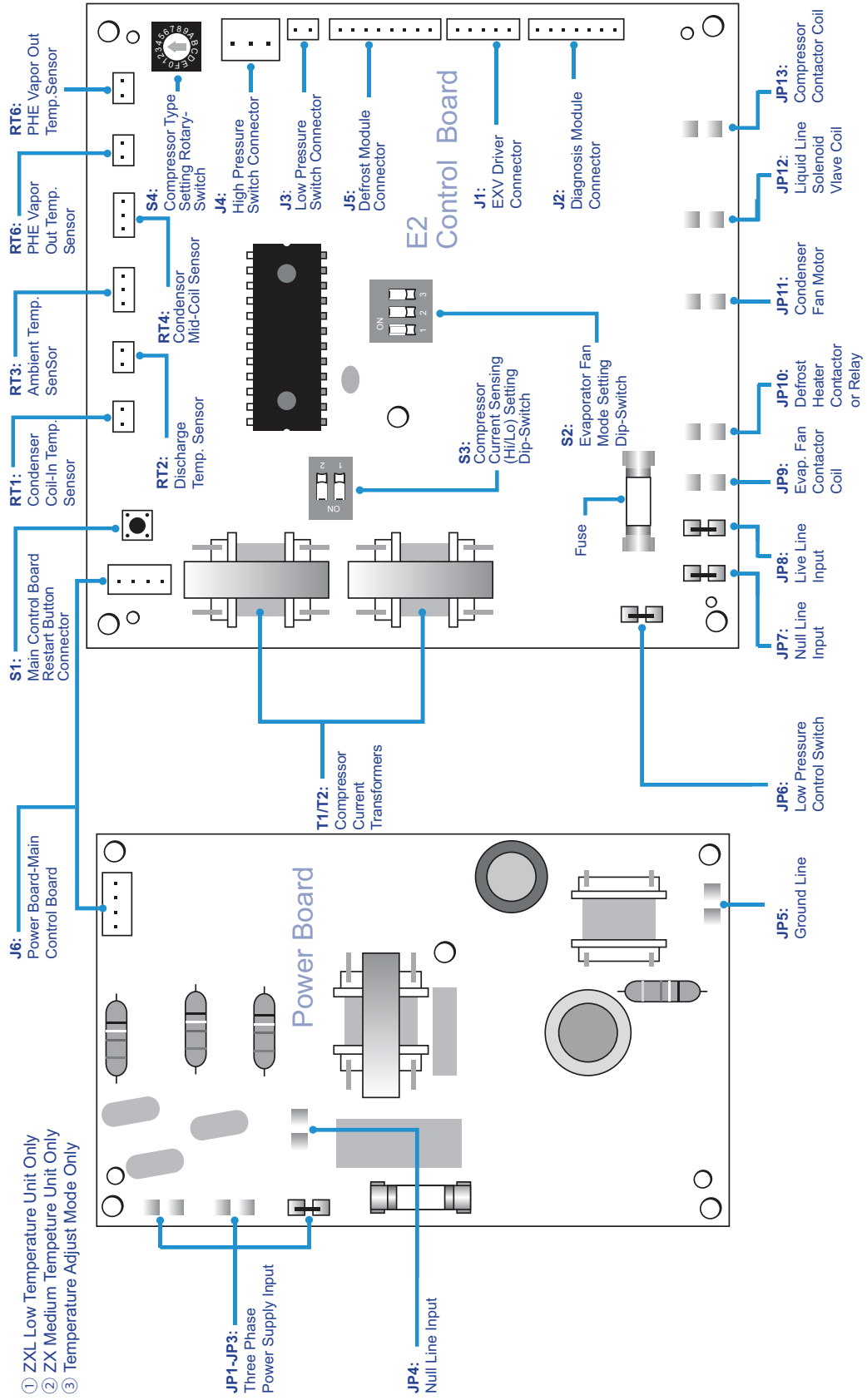


E2 Display Diagnostic



Remote Buzzer With Volume

Power Board and E2 Control Board Diagram



Suction pressure
Suction temperature display

Enter Alarm

Manual Restart

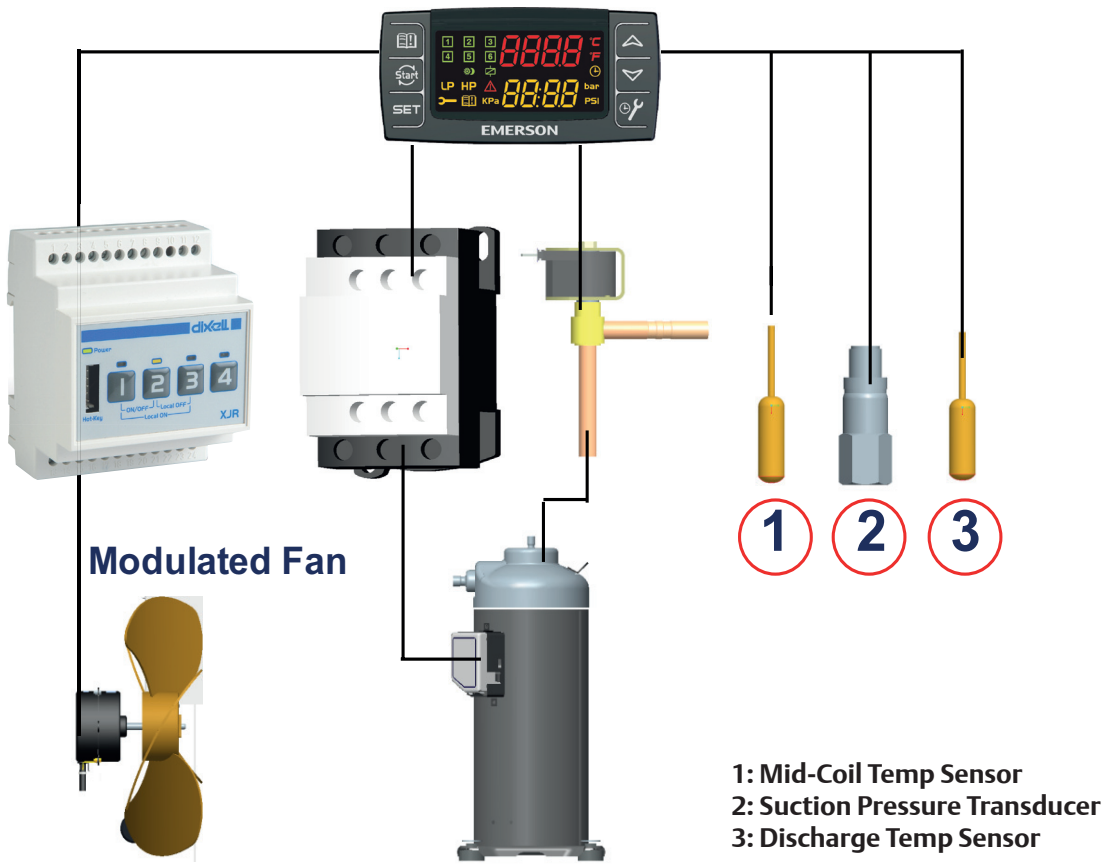
Setup Menu

EMERSON

Condenser pressure
Condenser temperature display

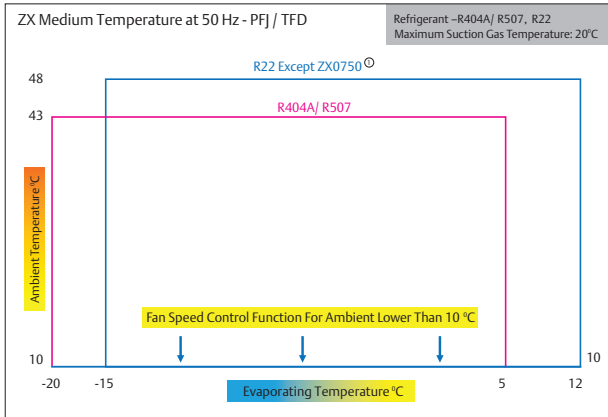
Program Mode: browses parameter codes or increase value
Hot Key Insert : Hot key programming procedure
INFO Menu: Press and release it to access INFO Menu
Program Mode: below parameter codes or decrease value
Maintenance /Clock

Emerson Controller On ZXD

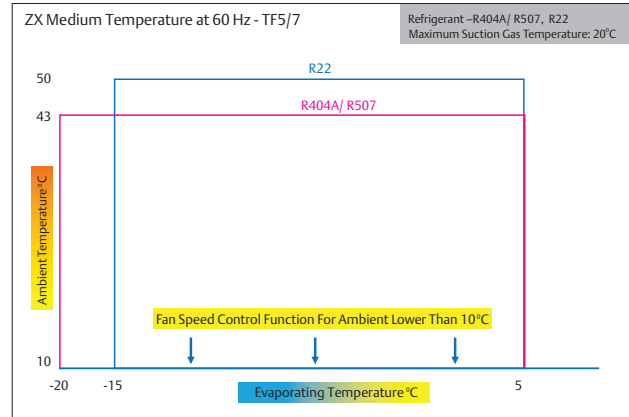


Envelope

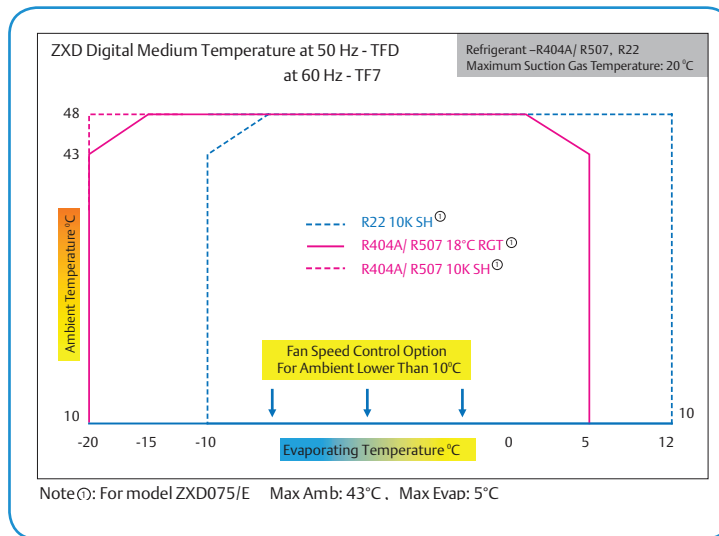
ZX Family : Medium Temperature



Note: For model ZX0750 Max Amb: 43°C, Max Evap: 5°C

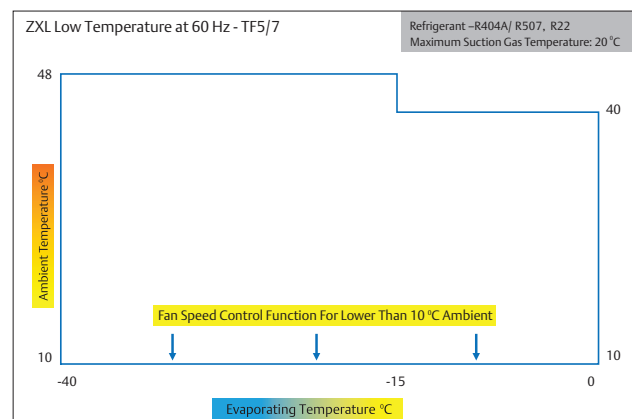
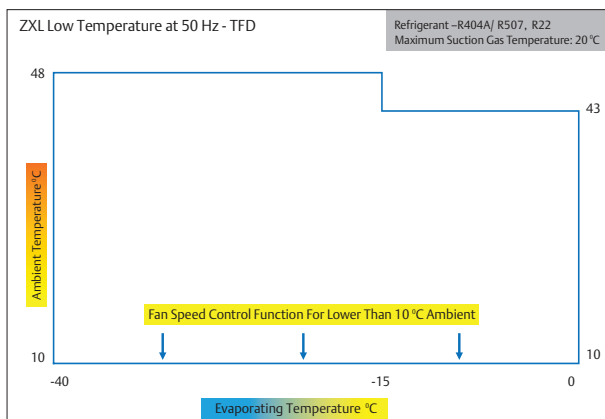


ZXD Family : Digital Medium Temperature



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

ZXL Family : Low Temperature



ZX Family: Medium Temperature

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

R22 - 50 Hz

Model	Ambient Temperature (°C)	Capacity Evaporating Temperature (°C)						Power Evaporating Temperature (°C)							
		-15	-10	-5	0	5	10	12	-15	-10	-5	0	5	10	12
ZX0200	27	2.84	3.61	4.18	4.95	5.87	7.03	7.45	1.33	1.37	1.41	1.47	1.53	1.70	1.79
	32	2.65	3.33	4.01	4.75	5.61	6.54	6.96	1.45	1.50	1.58	1.64	1.71	1.84	1.88
	38	2.38	3.11	3.81	4.55	5.37	6.19	6.68	1.62	1.74	1.83	1.87	1.91	2.03	2.08
	43	1.93	2.74	3.48	4.23	5.06	5.99	6.33	1.78	1.83	1.95	2.05	2.11	2.20	2.25
	48	1.68	2.30	3.18	3.87	4.69	5.51	5.80	2.21	2.31	2.44	2.51	2.54	2.55	2.64
ZX0250 ¹	27	2.72	3.64	4.39	5.09	5.83	6.71	8.36	1.79	1.90	1.94	1.95	1.95	1.98	2.12
	32	2.56	3.45	4.18	4.83	5.52	6.33	7.87	2.02	2.14	2.18	2.19	2.19	2.21	2.34
	38	2.11	3.00	3.71	4.33	4.98	5.74	7.18	2.35	2.47	2.51	2.51	2.51	2.52	2.64
	43	1.62	2.53	3.25	3.88	4.51	5.25	6.64	2.67	2.78	2.83	2.83	2.82	2.83	2.93
	48	2.08	2.83	3.48	4.13	4.86	7.37	6.23	3.15	3.19	3.18	3.17	3.17	2.29	3.25
ZX0300	27	4.30	5.20	6.28	7.57	9.09	10.22	10.80	1.95	2.04	2.17	2.20	2.23	2.43	2.49
	32	4.12	4.90	5.95	7.28	8.69	9.79	10.31	2.10	2.20	2.32	2.34	2.46	2.70	2.77
	38	3.68	4.62	5.65	6.85	8.29	9.06	9.63	2.37	2.48	2.59	2.60	2.76	3.06	3.12
	43	3.27	4.22	5.27	6.50	7.97	8.63	9.08	2.64	2.75	2.84	2.94	3.04	3.32	3.36
	48	2.40	3.55	4.65	5.67	6.86	7.97	8.50	2.98	3.18	3.28	3.35	3.50	3.64	3.69
ZX0400	27	5.98	7.20	8.57	10.03	11.54	13.82	14.64	2.64	2.71	2.83	2.98	3.08	3.34	3.36
	32	5.46	6.73	8.13	9.62	11.16	13.01	13.85	2.81	2.90	3.06	3.19	3.33	3.68	3.68
	38	4.72	6.01	7.42	8.93	10.48	12.09	13.04	3.08	3.27	3.39	3.49	3.65	4.09	4.07
	43	4.09	5.37	6.78	8.27	9.80	11.61	12.25	3.29	3.52	3.68	3.80	3.95	4.38	4.39
	48	3.55	4.50	6.20	7.57	9.08	10.68	11.23	4.16	4.46	4.49	4.72	4.80	5.07	5.18
ZX0500 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
ZX0600 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
ZX0750 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		
ZX0760 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 only
² Available on TFD models only
Based on a return gas temperature of 18.3°C.
Power includes condenser fan.
Ambient 38°C and 43°C are typical design conditions for unit selection.

ZX Family: Medium Temperature
Capacity and Power (kW) at 50 Hz - PFJ/TFD

R404A/R507 - 50 Hz

Model	Ambient Temperature (°C)	Capacity Evaporating Temperature (°C)						Power Evaporating Temperature (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
ZX020E	27	3.30	3.90	4.44	5.08	5.79	6.60	1.64	1.67	1.70	1.76	1.84	1.96
	32	2.85	3.39	3.92	4.48	5.08	5.76	1.79	1.81	1.84	1.90	2.00	2.12
	38	2.42	2.90	3.36	3.85	4.36	4.94	1.95	1.99	2.02	2.07	2.16	2.26
	43	1.94	2.43	2.89	3.34	3.81	4.30	2.14	2.18	2.22	2.27	2.34	2.41
ZX025E ¹	27	3.01	3.01	4.01	4.85	5.62	6.44	1.68	1.68	1.78	1.82	1.83	1.83
	32	2.83	2.83	3.81	4.61	5.33	6.09	1.90	1.90	2.01	2.05	2.05	2.05
	38	2.33	2.33	3.31	4.09	4.78	5.50	2.20	2.20	2.31	2.36	2.36	2.36
	43	1.78	1.78	2.79	3.59	4.28	4.98	2.50	2.50	2.61	2.65	2.66	2.64
ZX030E	27	4.04	4.87	5.81	6.85	7.99	9.23	2.14	2.19	2.24	2.32	2.42	2.55
	32	3.75	4.52	5.39	6.35	7.40	8.55	2.40	2.44	2.50	2.57	2.67	2.81
	38	3.39	4.08	4.85	5.72	6.67	7.69	2.72	2.75	2.80	2.88	3.00	3.15
	43	3.06	3.69	4.39	5.17	6.03	6.97	3.06	3.09	3.14	3.21	3.33	3.50
ZX040E	27	5.52	6.57	7.70	8.95	10.37	12.02	2.72	2.86	3.02	3.17	3.31	3.36
	32	5.10	6.10	7.13	8.24	9.47	10.87	3.03	3.15	3.31	3.46	3.54	3.68
	38	4.61	5.60	6.57	7.57	8.64	9.85	3.45	3.58	3.71	3.85	3.97	4.03
	43	3.98	5.00	5.95	6.89	7.83	8.85	3.87	4.00	4.12	4.23	4.33	4.38
ZX050E 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
ZX060E 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
ZX075E 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
ZX076E 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 only
² Available on TFD models only
 Based on a return gas temperature of 18.3°C.
 Power includes condenser fan.
 Ambient 38°C and 43°C are typical design conditions for unit selection.

ZX Family: Medium Temperature

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

R22 - 60 Hz

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

Note: Power include condenser fan.
Ambient 38°C and 43°C are typical design conditions for unit selection.

ZX Family: Medium Temperature
Capacity and Power (kW) at 60 Hz - TF5/TF7

R404A/R507 - 60 Hz

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

Notes: Power includes condenser fan.
Ambient 38°C and 43°C are typical design conditions for unit selection.

ZXD Family: Digital Medium Temperature

Capacity and Power (kW) at 50 Hz - TFD

R22 - 50 Hz

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

Notes: ■ Based on suction superheat of 10K.
 Power include condenser fan.
 Ambient 38°C and 43°C are typical design conditions for unit selection.

ZXD Family: Digital Medium Temperature R404A/R507 - 50 Hz

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

Notes: Based on return gas temperature of 18.3°C.
 at suction superheat of 10 K.
 Power include condenser fan.
 Ambient 38°C and 43°C are typical design conditions for unit selection.

ZXD Family: Digital Medium Temperature **R404A/R507 - 60 Hz**

Capacity and Power (kW) at 60 Hz - 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
ZXD040E	27	7.10	8.53	9.35	10.80	12.99	14.70	3.24	3.42	3.62	3.85	4.05	4.34
	32	6.64	8.03	8.70	10.20	12.27	13.87	3.59	3.74	4.00	4.13	4.30	4.57
	38	5.88	7.20	7.97	9.26	11.15	12.60	4.19	4.31	4.46	4.64	4.77	5.00
	43	5.21	6.34	7.09	8.29	10.01	11.32	4.82	4.92	5.05	5.21	5.31	5.52
	48	4.27	5.60	6.20	7.31	8.86		5.46	5.53	5.64	5.77	5.85	
ZXD050E	27	8.99	10.86	11.74	13.54	15.32	17.06	4.38	4.48	4.63	4.83	5.10	5.44
	32	7.87	9.75	10.77	12.57	14.41	16.21	4.93	5.04	5.11	5.40	5.66	6.00
	38	6.67	8.48	9.54	11.35	13.18	14.99	5.51	5.61	5.75	5.95	6.20	6.51
	43	5.86	7.54	8.57	10.31	12.08	13.84	6.14	6.21	6.32	6.48	6.71	6.97
	48	5.04	6.59	7.60	9.26	10.98		6.76	6.81	6.89	7.02	7.22	
ZXD060E	27	10.22	12.06	13.41	15.56	17.89	21.07	4.42	4.61	5.08	5.41	5.78	6.16
	32	9.34	11.23	12.54	14.72	16.78	19.61	5.28	5.45	5.93	6.26	6.61	6.96
	38	8.36	10.23	11.50	13.51	15.37	17.89	5.91	6.06	6.58	6.83	7.15	7.47
	43	7.44	9.27	10.61	12.57	14.33	16.68	6.71	6.83	7.32	7.57	7.85	8.34
	48	6.27	8.22	9.72	11.62	13.29		7.51	7.59	8.07	8.30	8.54	
ZXD075E	27	11.16	13.39	14.92	17.64	19.93	22.58	4.80	5.00	5.69	6.06	6.54	6.96
	32	10.29	12.35	13.84	16.23	18.18	21.23	5.74	5.92	6.66	7.00	7.46	7.87
	38	9.01	10.78	12.43	14.60	16.31	18.99	6.42	6.60	7.35	7.66	8.09	8.45
	43	7.73	9.79	11.25	13.33	14.95	17.39	7.28	7.43	8.20	8.48	8.87	9.19
	48	6.44	8.78	10.07	12.05			8.15	8.26	9.06	9.30		

Notes: Based on return gas temperature of 18.3°C.

■ at suction superheat of 10 K.

Power include condenser fan.

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

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

R22 - 50 Hz

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

Note: Based on the return gas temperature of 5°C.
Power include condenser fan.
Ambient 38°C and 43°C are typical design conditions for unit selection.

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

R404A/R507 - 50 Hz

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

Notes: Based on the return gas temperature of 5°C.
 Power include condenser fan.
 Ambient 38°C and 43°C are typical design conditions for unit selection.

ZXL Family: Low Temperature Capacity and Power (kW) at 60 Hz - TF5/ TF7

R22 - 60 Hz

Model	Ambient Temperature (°C)	Capacity Evaporating Temperature (°C)									Power Evaporating Temperature (°C)								
		-40	-35	-30	-25	-20	-15	-10	-5	0	-40	-35	-30	-25	-20	-15	-10	-5	0
ZXL0200	20	1.51	1.95	2.44	3.02	3.69	4.48	5.41	6.50	7.76	1.40	1.46	1.51	1.56	1.61	1.66	1.71	1.77	1.84
	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				2.17	2.23	2.30	2.37	2.45	2.54			
	48	0.92	1.51	2.07	2.63	3.20	3.81				2.45	2.52	2.59	2.67	2.76	2.85			
ZXL0250	20	2.37	2.52	2.93	3.56	4.37	5.33	6.41	7.56	8.77	1.85	1.89	1.91	1.98	1.99	2.02	2.07	2.14	2.23
	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	2.38	2.50	2.71	3.16	3.78	4.54				3.01	3.02	3.05	3.09	3.14	3.21			
	48	2.39	2.51	2.69	3.08	3.64	4.34				3.38	3.39	3.39	3.41	3.44	3.49			
ZXL0300	20	2.70	2.87	3.34	4.06	4.98	6.08	7.31	8.62	9.99	1.92	1.97	1.99	2.06	2.07	2.10	2.15	2.22	2.32
	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	2.67	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	2.71	2.85	3.09	3.60	4.31	5.18				3.13	3.14	3.17	3.21	3.27	3.34			
	48	2.72	2.86	3.07	3.52	4.15	4.95				3.52	3.52	3.53	3.54	3.58	3.63			
ZXL0350	20	3.26	3.48	4.04	4.91	6.03	7.36	8.84	10.43	12.09	2.25	2.30	2.32	2.41	2.42	2.46	2.52	2.60	2.72
	32	3.26	3.42	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	3.23	3.40	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	3.28	3.45	3.74	4.36	5.22	6.27				3.66	3.68	3.71	3.76	3.82	3.91			
	48	3.30	3.46	3.72	4.25	5.03	5.98				4.11	4.12	4.13	4.15	4.19	4.25			
ZXL0400	20	4.57	4.88	5.55	6.54	7.83	9.39	11.19	13.21	15.43	2.84	2.87	2.96	3.06	3.14	3.19	3.17	3.06	2.83
	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	4.01	3.93	3.72
	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	4.60	4.53	4.33
	43	3.16	3.83	4.69	5.70	6.85	8.10				4.17	4.36	4.58	4.80	4.98	5.11			
	48	2.88	3.53	4.33	5.25	6.27	7.35				4.68	4.89	5.13	5.35	5.54	5.67			
ZXL0500	20	4.80	6.02	6.84	7.99	9.47	11.27	13.38	15.79	18.50	2.77	2.97	3.19	3.41	3.60	3.73	3.79	3.74	3.56
	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	4.67	4.55
	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	5.36	5.29
	43	3.64	4.55	5.56	6.67	7.87	9.15				4.47	4.71	5.00	5.29	5.58	5.83			
	48	3.38	4.27	5.22	6.20	7.22	8.27				5.07	5.36	5.69	6.04	6.38	6.69			
ZXL0600	20	5.71	7.17	8.14	9.51	11.27	13.41	15.92	18.79	22.02	3.58	3.83	4.12	4.40	4.64	4.82	4.89	4.83	4.60
	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	6.03	5.87
	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	6.83
	43	4.33	5.41	6.62	7.94	9.37	10.89				5.76	6.08	6.45	6.83	7.20	7.52			
	48	4.03	5.09	6.21	7.38	8.60	9.84				6.54	6.91	7.34	7.79	8.23	8.62			
ZXL0750	20	6.05	7.60	8.62	10.08	11.94	14.21	16.88	19.92	23.34	3.93	4.22	4.53	4.84	5.11	5.30	5.38	5.31	5.06
	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	6.63	6.46
	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	7.60	7.51
	43	4.59	5.74	7.02	8.42	9.93	11.54				6.34	6.69	7.09	7.51	7.92	8.27			
	48	4.27	5.39	6.58	7.82	9.11	10.43				7.19	7.60	8.07	8.57	9.05	9.49			

Notes: Based on a return gas temperature of 5°C.
Power includes condenser fan.
Ambient 38°C and 43°C are typical design conditions for unit selection.

ZXL Family: Low Temperature Capacity and Power (kW) at 60 Hz - TF5/ TF7

R404A /R507 - 60 Hz

Model	Ambient Temperature (°C)	Capacity Evaporating Temperature (°C)									Power Evaporating Temperature (°C)								
		-40	-35	-30	-25	-20	-15	-10	-5	0	-40	-35	-30	-25	-20	-15	-10	-5	0
ZXL020E	20	1.85	2.31	2.89	3.56	4.31	5.12	5.99	6.90	7.83	1.59	1.65	1.71	1.78	1.86	1.94	2.02	2.11	2.19
	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				2.54	2.63	2.73	2.83	2.95	3.07			
	48	1.18	1.73	2.30	2.89	3.48	4.05				2.84	2.93	3.04	3.15	3.27	3.40			
ZXL025E	20	2.06	2.60	3.28	4.11	5.09	6.24	7.58	9.11	10.84	1.65	1.78	1.91	2.03	2.13	2.19	2.21	2.17	2.07
	32	1.93	2.46	3.08	3.80	4.64	5.61	6.72	7.98	9.41	2.27	2.39	2.53	2.66	2.79	2.89	2.97	2.99	2.97
	38	1.92	2.42	3.00	3.65	4.41	5.27	6.25	7.36	8.62	2.63	2.75	2.90	3.05	3.20	3.34	3.44	3.51	3.53
	43	1.86	2.33	2.85	3.45	4.12	4.88				2.98	3.11	3.27	3.45	3.62	3.78			
	48	1.68	2.11	2.58	3.11	3.69	4.35				3.40	3.55	3.73	3.92	4.12	4.32			
ZXL030E	20	2.79	3.39	4.15	5.04	6.02	7.06	8.10	9.13	10.10	1.98	2.09	2.22	2.35	2.47	2.54	2.54	2.46	2.26
	32	2.56	3.13	3.81	4.59	5.42	6.26	7.07	7.83	8.49	2.52	2.60	2.74	2.90	3.08	3.25	3.38	3.45	3.45
	38	2.41	2.95	3.60	4.32	5.07	5.81	6.51	7.13	7.64	2.88	2.94	3.06	3.24	3.44	3.64	3.82	3.97	4.05
	43	2.20	2.73	3.35	4.02	4.71	5.37				3.31	3.34	3.45	3.63	3.84	4.07			
	48	1.89	2.41	3.00	3.62	4.25	4.83				3.91	3.91	4.00	4.17	4.39	4.65			
ZXL035E	20	3.14	3.93	4.91	6.04	7.32	8.71	10.19	11.74	13.32	2.37	2.45	2.55	2.65	2.77	2.89	3.01	3.14	3.27
	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				3.79	3.92	4.06	4.22	4.39	4.57			
	48	2.00	2.94	3.92	4.92	5.92	6.89				4.23	4.37	4.53	4.70	4.88	5.07			
ZXL040E	20	3.75	4.74	5.97	7.48	9.27	11.37	13.80	16.58	19.74	2.56	2.76	2.96	3.14	3.30	3.40	3.43	3.37	3.21
	32	3.52	4.48	5.60	6.92	8.45	10.21	12.23	14.53	17.12	3.52	3.70	3.91	4.13	4.32	4.49	4.60	4.64	4.60
	38	3.50	4.41	5.45	6.65	8.02	9.59	11.37	13.40	15.68	4.07	4.27	4.49	4.73	4.96	5.17	5.34	5.44	5.47
	43	3.38	4.23	5.19	6.27	7.50	8.89				4.62	4.83	5.07	5.34	5.61	5.86			
	48	3.05	3.84	4.70	5.66	6.72	7.92				5.27	5.50	5.78	6.08	6.39	6.69			
ZXL050E	20	5.36	5.97	6.95	8.27	9.92	11.86	14.08	16.54	19.21	3.56	3.85	4.06	4.20	4.32	4.42	4.53	4.68	4.87
	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				5.62	5.79	5.98	6.22	6.54	6.96			
	48	3.79	4.74	5.75	6.82	7.90	8.98				6.35	6.42	6.55	6.75	7.05	7.47			
ZXL060E	20	5.85	7.17	8.69	10.36	12.14	14.01	15.92	17.83	19.70	4.57	4.65	4.93	5.34	5.79	6.20	6.49	6.56	6.35
	32	5.51	6.71	8.06	9.51	11.03	12.59	14.14	15.64	17.07	5.53	5.62	5.94	6.42	6.97	7.50	7.94	8.19	8.19
	38	5.25	6.38	7.63	8.97	10.35	11.74	13.10	14.40	15.59	6.36	6.42	6.73	7.21	7.77	8.33	8.81	9.13	9.19
	43	4.98	6.04	7.21	8.45	9.71	10.95				7.25	7.27	7.56	8.02	8.58	9.15			
	48	4.65	5.65	6.73	7.86	8.99	10.09				8.35	8.32	8.56	8.99	9.53	10.09			
ZXL075E	20	6.81	7.58	8.82	10.50	12.60	15.07	17.88	21.00	24.40	4.99	5.39	5.68	5.89	6.05	6.19	6.34	6.55	6.82
	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				7.87	8.10	8.37	8.71	9.16	9.74			
	48	4.81	6.01	7.31	8.66	10.04	11.40				8.89	8.99	9.16	9.44	9.86	10.45			

Notes: Based on a return gas temperature of 5°C.
 Power includes condenser fan.
 Ambient 38°C and 43°C are typical design conditions for unit selection.

ZX Family: Medium Temperature

Technical Data at 50 Hz - PFJ

Family				ZX				
Nominal Rating	Horsepower	HP		2	2.5	3	4	
Model Name				ZX0200	ZX0250	ZX0300	ZX0400	
				ZX020E	ZX025E	ZX030E	ZX040E	
Performance	R22	ET/AT/RGT	°C	-6.7/32/18.3				
		Capacity	kW	3.85	4.58	5.5	7.3	
		COP	W/W	2.41	2.18	2.5	2.52	
	R404A/R507A	ET/AT/RGT	°C	-6.7/32/18.3				
		Capacity	kW	4.30	5.05	6.00	7.80	
		COP	W/W	2.26	2.05	2.35	2.29	
	Sound Pressure Level	@1m	dB(A)	60				
	Compressor	Model Name	R22		ZX15KC-PFJ	ZX19KC-PFJ	ZX21KC-PFJ	ZX29KC-PFJ
			R404A/R507A		ZX15KCE-PFJ	ZX19KCE-PFJ	ZX21KCE-PFJ	ZX29KCE-PFJ
Rated Load Ampere		R22	Amp	13.2	14.6	16.4	20.0	
		R404A/R507A		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	
Oil Type		R22		MINERAL				
	R404A/R507A		POE					
Oil Recharge Volume	R22/R404A /R507A	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			
Receiver Volume		R22	kg	5.1	5.1	5.1	5.1	
		R404A/R507A	kg	4.4	4.4	4.4	4.4	
Pipes		Suction OD	Inch	3/4	3/4	3/4	3/4	
		Liquid OD	Inch	1/2	1/2	1/2	1/2	
Dimension		W x D x H	mm	1029X424X840				
Weight		Net	kg	76	79	79	100	
	Gross	kg	114	117	117	138		

ZX Family: Medium Temperature

Technical Data at 50 Hz - TFD

Family				ZX						
Nominal Rating	Horsepower	HP	2	3	4	5	6	7.5	7.6	
Model Name			ZX0200	ZX0300	ZX0400	ZX0500	ZX0600	ZX0750	ZX0760	
			ZX020E	ZX030E	ZX040E	ZX050E	ZX060E	ZX075E	ZX076E	
Performance	R22	ET/AT/RGT	-6.7/32/18.3							
		Capacity	3.85	5.50	7.30	9.30	11.20	12.60	12.85	
		COP	2.41	2.50	2.52	2.66	2.60	2.57	2.65	
	R404A/R507A	ET/AT/RGT	-6.7/32/18.3							
		Capacity	4.30	6.00	7.80	10.70	11.80	13.20	13.46	
		COP	2.26	2.35	2.29	2.43	2.41	2.40	2.50	
Sound Pressure Level	@1m	dB(A)	60							
Compressor	Model Name	R22	ZX15KC-TFD	ZX21KC-TFD	ZX30KC-TFD	ZX38KC-TFD	ZX45KC-TFD	ZX51KC-TFD	ZX51KC-TFD	
		R404A/R507A	ZX15KCE-TFD	ZX21KCE-TFD	ZX30KCE-TFD	ZX38KCE-TFD	ZX45KCE-TFD	ZX51KCE-TFD	ZX51KCE-TFD	
	Rated Load Ampere	R22	Amp	4.3	5.7	7.4	8.9	11.5	12.0	12.0
		R404A/R507A	Amp	5.0	6.1	7.5	9.6	11.5	11.8	11.8
	Locked Rotor Ampere	R22	Amp	26.0	36.0	44.3	58.6	67.0	101.0	101.0
		R404A/R507A	Amp	26.0	36.0	44.3	58.6	67.0	101.0	101.0
	Oil Type	R22		MINERAL						
	R404A/R507A		POE							
Oil Recharge Volume	R22/R404A / R507A	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	m ³ /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	
	Receiver Volume	R22	kg	5.1	5.1	5.1	7.2	7.2	7.2	
		R404A/R507A	kg	4.4	4.4	4.4	6.3	6.3	6.3	
	Pipes Suction	OD	Inch	3/4	3/4	7/8	7/8	7/8	7/8	
		Liquid OD	Inch	1/2	1/2	1/2	1/2	1/2	1/2	
	Dimension	W x D x H	mm	1029X424X840			1029X424X1242			
Weight	Net	kg	76	79	100	108	112	118	121	
	Gross	kg	113.5	116.5	121	152	156	162	154	

ZX Family: Medium Temperature

Technical Data at 60 Hz - TF5/TF7

Family				ZX						
Nominal Rating		Horsepower	HP	2	3	4	5	6	7.5	
Model Name				ZX0200	ZX0300	ZX0400	ZX0500	ZX0600	ZX0750	
				ZX020E	ZX030E	ZX040E	ZX050E	ZX060E	ZX075E	
Performance	R22	ET/AT/RGT	°C	-7/32/18.3						
		Capacity	kW	4.6	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	-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	
Sound Pressure Level		@1m	dB(A)	60						
Compressor	Model Name		R22	ZX15KC-TF5/TF7	ZX21KC-TF5/TF7	ZX29KC-TF5/TF7	ZX38KC-TF5/TF7	ZX45KC-TF5/TF7	ZX51KC-TF5/TF7	
			R404A/R507A	ZX15KCE-TF5/TF7	ZX21KCE-TF5/TF7	ZX29KCE-TF5/TF7	ZX38KCE-TF5/TF7	ZX45KCE-TF5/TF7	ZX51KCE-TF5/TF7	
	Rated Load Ampere	R22	Amp	8.9/5	11.4/7.5	15/9.3	20.7/10.7	20.7/10.7	25/12.1	
		R404A/R507A	Amp	8.9/5.1	12.1/7.4	15.7/9.6	24/12.4	23.1/12.6	26/14.1	
	Locked Rotor Ampere	R22	Amp	55/27	77/39	115/54	128/64	156/70	164/100	
		R404A/R507A	Amp	55/27	77/39	115/54	128/64	156/70	164/100	
	Oil Type		R22	MINERAL						
		R404A/R507A	POE							
Oil Recharge Volume		R22/R404A	Liters	1.18	1.33	1.83	1.83	1.66	1.66	
		/R507A								
Fan Motor	Number of Fan		Pieces	1	1	2	2	2	2	
	Diameter		mm	450	450	450	450	450	450	
	Fan Speed		rpm	933	933	933	933	933	933	
	Air Flow		Total	m ³ /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	
	Receiver Volume		R22	kg	5.1	5.1	7.2	7.2	7.2	7.2
			R404A/R507A	kg	4.4	4.4	6.3	6.3	6.3	6.3
	Pipes		Suction OD	Inch	3/4	3/4	3/4	3/4	3/4	3/4
			Liquid OD	Inch	1/2	1/2	1/2	1/2	1/2	1/2
	Dimension		W x D x H	mm	1029X424X840			1029X424X1242		
	Weight		Net	kg	76	79	100	108	112	121
		Gross	kg	113.5	116.5	135	152	156	162	

ZXD Family: Digital Medium Temperature

Technical Data at 50 Hz - TFD

Family				ZXD				
Nominal Rating	Horsepower	HP	4	5	6	7.5	7.6	
Model Name			ZXD0400 ZXD040E	ZXD0500 ZXD050E	ZXD0600 ZXD060E	ZXD0750 ZXD075E	ZXD0760 ZXD076E	
Performance	R22	ET/AT/RGT	-6.7/32/18.3					
		Capacity	7.76	9.3	11.2	12.6	12.85	
		COP	2.67	2.66	2.6	2.57	2.67	
	R404A/R507A	ET/AT/RGT	-6.7/32/18.3					
		Capacity	8.30	10.70	11.80	13.20	13.46	
		COP	2.47	2.43	2.41	2.4	2.49	
Sound Pressure Level	@1m	dB(A)	60					
Compressor	Model Name	R22	ZBD29KQ-TFD	ZBD38KQ-TFD	ZBD45KQ-TFD	ZBD48KQ-TFD	ZBD48KQ-TFD	
		R404A/R507A	ZBD29KQE-TFD	ZBD38KQE-TFD	ZBD45KQE-TFD	ZBD48KQE-TFD	ZBD48KQE-TFD	
	Rated Load Ampere	R22	7.9	10	10	12.1	12.1	
		R404A/R507A	7.7	10.4	9.6	12.4	12.4	
	Locked Rotor Ampere	R22	48.0	64.0	74.0	100.0	100.0	
		R404A/R507A	48.0	64.0	74.0	100.0	100.0	
	Oil Type	R22	MINERAL					
	R404A/R507A	POE						
Oil Recharge Volume	R22/R404A	Liters	1.24	1.77	1.77	1.77	1.77	
	/R507A							
Fan Motor	Number of Fan	Pieces	2	2	2	2	2	
	Diameter	mm	450	450	450	450	450	
	Fan Speed	rpm	830	830	830	830	830	
	Air Flow	Total	m ³ /h	5910	5910	5910	5910	5910
	Total Fan Motor Power	Input	W	246	246	246	246	246
Others	Oil Separator	Volume	Liters	0.5	0.5	0.5	0.5	0.5
	Receiver Volume	R22	kg	7.2	7.2	7.2	7.2	7.2
		R404A/R507A	kg	6.3	6.3	6.3	6.3	6.3
	Pipes	Suction OD	Inch	7/8	7/8	7/8	7/8	7/8
		Liquid OD	Inch	1/2	1/2	1/2	1/2	1/2
	Dimension	W x D x H	mm	1029X424X1242				
	Weight	Net	kg	104	112	114	119	122
Gross		kg	148	156	158	163	171	

ZXD Family: Digital Medium Temperature

Technical Data at **60 Hz** - TF7

Family				ZX			
Nominal Rating	Horsepower	HP	4	5	6	7.5	
Model Name			ZXD040E	ZXD050E	ZXD060E	ZXD075E	
Performance	R22	ET/AT/RGT	°C	n/a	n/a	n/a	n/a
		Capacity	kW	n/a	n/a	n/a	n/a
		COP	W/W	n/a	n/a	n/a	n/a
	R404A/R507A	ET/AT/RGT	°C	-10/32/18.3			
		Capacity	kW	8.70	10.77	12.54	13.84
	COP	W/W	2.18	2.11	2.12	2.08	
Sound Pressure Level	@1m	dB(A)	60				
Compressor	Model Name	R22	n/a	n/a	n/a	n/a	
		R404A/R507A	ZBD29KQE-TF7	ZBD38KQE-TF7	ZBD45KQE-TF7	ZBD48KQE-TF7	
	Rated Load Ampere	R22	Amp	n/a	n/a	n/a	n/a
		R404A/R507A	Amp	9.6	11.6	12.9	14.6
	Locked Rotor Ampere	R22	Amp	n/a	n/a	n/a	n/a
		R404A/R507A	Amp	54.0	64.0	70.0	78.0
Oil Type	R22	n/a					
	R404A/R507A	POE 3MAF					
Oil Recharge Volume	R22/R404A	Liters	1.24	1.77	1.77	1.77	
	/R507A						
Fan Motor	Number of Fan	Pieces	2	2	2	2	
	Diameter	mm	450	450	450	450	
	Fan Speed	rpm	933	933	933	933	
	Air Flow	Total	m ³ /h	6966	6966	6966	6966
	Total Fan Motor Power	Input	W	290	290	290	290
Others	Oil Separator	Volume	Liters	0.5	0.5	0.5	0.5
	Receiver Volume	R22	kg	n/a	n/a	n/a	n/a
		R404A/R507A	kg	6.3	6.3	6.3	6.3
	Pipes	Suction OD	Inch	7/8	7/8	7/8	7/8
		Liquid OD	Inch	1/2	1/2	1/2	1/2
Dimension	W x D x H	mm	1029X424X1242				
Weight	Net	kg	109	117	121	127	
	Gross	kg	148	156	158	163	

ZXL Family: Low Temperature

Technical Data at 50 Hz - TFD

Family			ZX								
Nominal Rating	Horsepower	HP	2	2.5	3	3.5	4	5	6	7.5	
Model Name			ZXL0200	ZXL0250	ZXL0300	ZXL0350	ZXL0400	ZXL0500	ZXL0600	ZXL0750	
			ZXL020E	ZXL025E	ZXL030E	ZXL035E	ZXL040E	ZXL050E	ZXL060E	ZXL075E	
Performance	R22	ET/AT/RGT	-32/32/5°C								
		Capacity	kW	1.7	1.91	2.34	2.78	3.57	4.05	4.96	5.39
		COP	W/W	1.2	1.17	1.28	1.26	1.24	1.29	1.27	1.28
	R404A/R507A	ET/AT/RGT	-32/32/5°C								
		Capacity	kW	2.11	2.51	2.80	3.65	4.26	4.99	5.91	6.65
		COP	W/W	1.24	1.28	1.29	1.34	1.29	1.36	1.33	1.38
Sound Pressure Level	@1m	dB(A)	60				61				
Compressor	Model Name		R22	ZXI06KC-TFD	ZXI08KC-TFD	ZXI09KC-TFD	ZXI11KC-TFD	ZXI14KC-TFD	ZXI15KC-TFD	ZXI18KC-TFD	ZXI21KC-TFD
			R404A/R507A	ZXI06KCE-TFD	ZXI08KCE-TFD	ZXI09KCE-TFD	ZXI11KCE-TFD	ZXI14KCE-TFD	ZXI15KCE-TFD	ZXI18KCE-TFD	ZXI21KCE-TFD
	Rated Load Ampere	R22	Amp	5.4	5.5	5.7	7.4	8.1	8.8	11.1	12.1
		R404A/R507A	Amp	5.6	6.2	6.0	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	Amp	39.2	39.2	39.2	51.5	51.5	51.5	74.0	101.0
Oil Type	R22	MINERAL									
	R404A/R507A	POE									
Oil Recharge Volume	R22/R404A	Liters	0.56	0.56	0.56	1.24	1.24	1.24	1.77	1.77	
	/R507A										
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
	Total Fan Motor Power	Input	W	116	116	116	116	116	246	246	246
Others	Oil Separator	Volume	Liters	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	Receiver Volume	R22	kg	5.1	5.1	5.1	5.1	5.1	7.2	7.2	7.2
		R404A/R507A	kg	4.4	4.4	4.4	4.4	4.4	6.3	6.3	6.3
	Pipes	Suction OD	Inch	3/4	3/4	3/4	7/8	7/8	7/8	7/8	7/8
		Liquid OD	Inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Dimension	W x D x H	mm	1029X424X840					1029X424X1242			
Weight	Net	kg	79	81	81	93	93	106	116	121	
	Gross	kg	117	119	119	131	131	150	165	170	

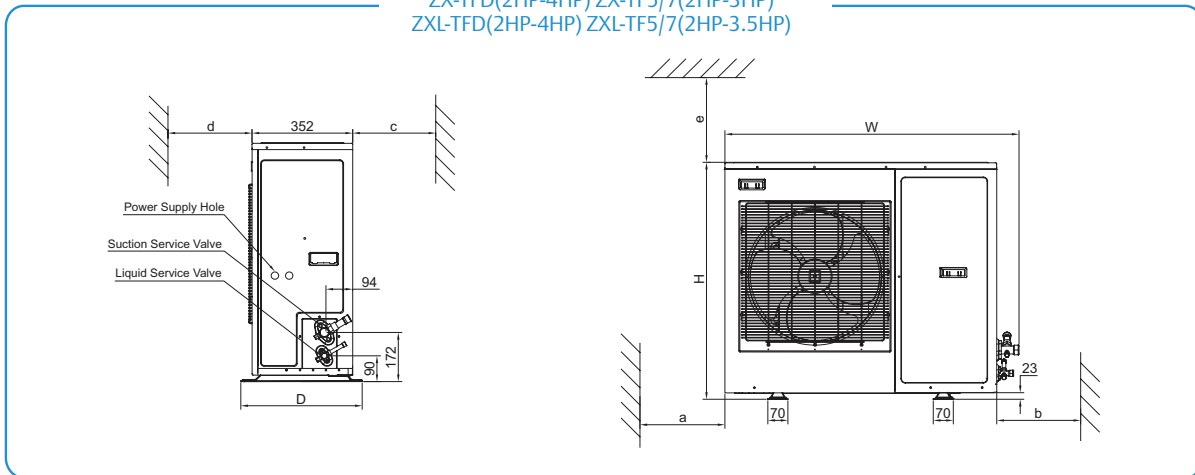
ZXL Family: Low Temperature

Technical Data at 60 Hz - TF5/TF7

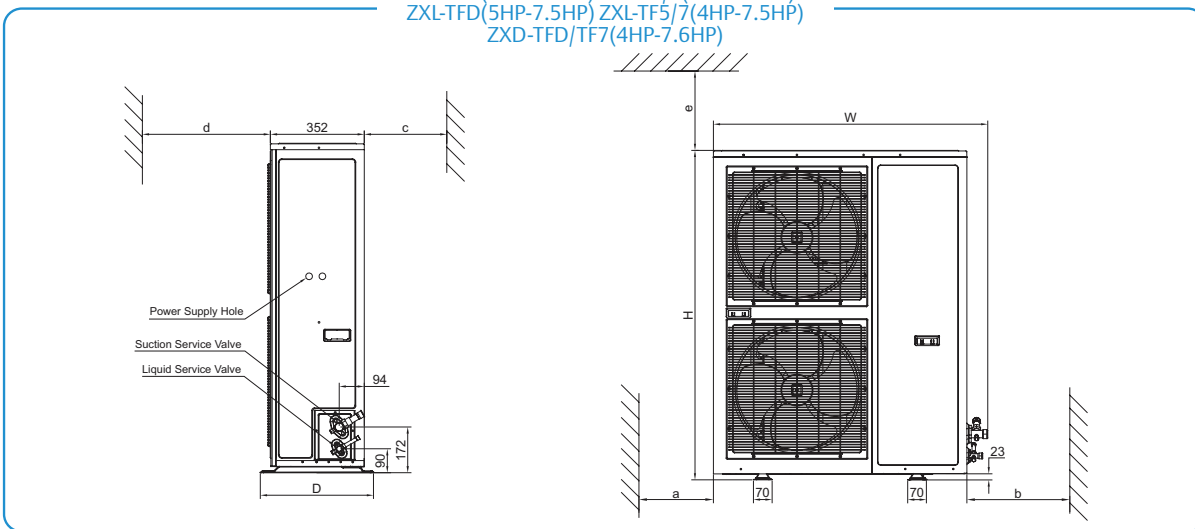
Family			ZX							
Nominal Rating	Horsepower	HP	2	2.5	3	3.5	4	5	6	7.5
Model Name			ZXL0200	ZXL0250	ZXL0300	ZXL0350	ZXL0400	ZXL0500	ZXL0600	ZXL0750
			ZXL020E	ZXL025E	ZXL030E	ZXL035E	ZXL040E	ZXL050E	ZXL060E	ZXL075E
Performance	R22	ET/AT/RGT	-32/32/5°C							
		Capacity	2.09	2.69	2.99	2.59	4.72	5.32	6.34	6.81
		COP	1.14	1.18	1.28	1.31	1.36	1.37	1.27	1.24
	R404A/R507A	ET/AT/RGT	-32/32/5°C							
		Capacity	2.41	2.83	3.54	4.19	5.18	6.26	7.52	7.98
		COP	1.12	1.15	1.32	1.33	1.33	1.44	1.29	1.32
Sound Pressure Level @1m		dB(A)	60				61			
Compressor	Model Name	R22	ZX106KCTF5/7	ZX108KCTF5/7	ZX109KCTF5/7	ZX111KCTF5/7	ZX114KCTF5/7	ZX115KCTF5/7	ZX118KCTF5/7	ZX121KCTF5/7
		R404A/R507A	ZX106KCE-TF5/7	ZX108KCE-TF5/7	ZX109KCE-TF5/7	ZX111KCE-TF5/7	ZX114KCE-TF5/7	ZX115KCE-TF5/7	ZX118KCE-TF5/7	ZX121KCE-TF5/7
	Rated Load Ampere	R22	12.1	12.6	12.9	19.1	20	21.4	25.5	28.9
		TF5 R404A/R507A	12.1	12.6	12.9	19.1	20	21.4	25.5	28.9
	Rated Load Ampere	R22	5.4	5.5	6.9	7.7	9.9	12.6	14.1	14.4
		TF7 R404A/R507A	5.6	6.2	6.9	8.6	9.9	12.6	14.1	14.4
	Locked Rotor Ampere	R22	73.0	73.0	73.0	110.0	110.0	110.0	186.6	191.0
		R404A/R507A	34.8	34.8	38.6	47.0	66.0	73.5	94.3	94.3
	Oil Type		R22	MINERAL						
			R404A/R507A	POE						
Oil Recharge Volume		R22/R404A/R507A	0.56	0.56	0.56	1.24	1.24	1.24	1.77	1.77
Fan Motor	Number of Fan		1	1	1	1	2	2	2	2
	Diameter		450	450	450	450	450	450	450	450
	Fan Speed		933	933	933	933	933	933	933	933
	Air Flow Total		3483	3483	3483	3483	6966	6966	6966	6966
	Total Fan Motor Power Input		145	145	145	145	290	290	290	290
Others	Oil Separator Volume		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Receiver Volume	R22	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
	Pipes	Suction OD	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	1029X424X840				1029X424X1242		
Weight	Net	kg	79	81	81	93	93	106	116	121
	Gross	kg	117	119	119	131	143	150	165	170

Dimensional Drawing

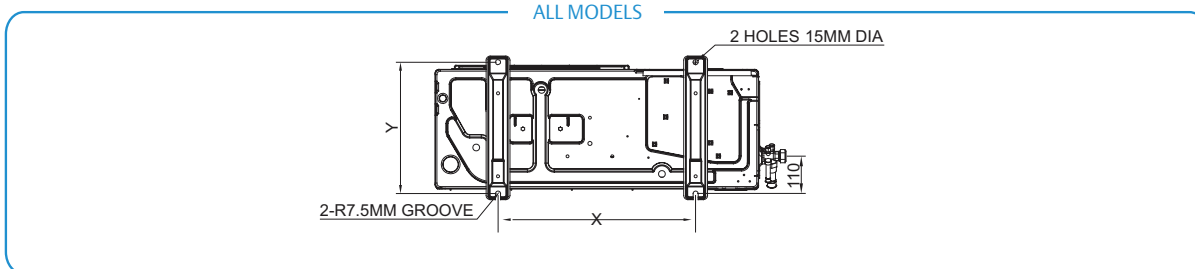
ZX-PFJ(2 HP-4 HP)
 ZX-TFD(2HP-4HP) ZX-TF5/7(2HP-3HP)
 ZXL-TFD(2HP-4HP) ZXL-TF5/7(2HP-3.5HP)



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



ALL MODELS



Model	Width	Height	Depth	Mtg	Centres	Conn. Size		Installation Clearances				
	W	H	D	X	Y	Suction*	Liquid*	A	B	C	D	E
	mm	mm	mm	mm	mm	M.Fi.	M.Fi.	mm	mm	mm	mm	mm
ZX-PFJ(2HP-4HP) ZX-TFD(2HP-4HP) ZX-TF5/7(2HP-3HP) ZXL-TFD(2HP-4HP) ZXL-TF5/7(2HP-3.5HP)	1029	840	424	580	388	3/4"	1/2"	300	500	300	500	500
ZX-TFD(5HP-7.6HP) ZX-TF5/7(4HP-7.5HP) ZXL-TFD(5HP-7.5HP) ZXL-TF5/7(4HP-7.5HP) ZXD-TFD/TF7(4HP-7.6HP)	1029	1242	424	580	388	7/8"	1/2"	300	500	300	500	500

Packing Information

Container Loading, ZX Platform Condensing Unit					
Family	Model	Motor Code	Fan Type	20FT	40FT/ 40FT H
ZX	ZX0200/E	PFJ/TFD/TF5/TF7	Single Fan	40	80
	ZX0250/E	PFJ		40	80
	ZX0300/E	PFJ/TFD/TF5/TF7		40	80
	ZX0400/E	PFJ/TFD		40	80
	ZX0400/E	TF5/TF7	Dual Fan	20	40
	ZX0500/E	TFD/TF5/TF7		20	40
	ZX0600/E	TFD/TF5/TF7		20	40
	ZX0750/E	TFD/TF5/TF7		20	40
ZXD	ZX0750/E	TFD/TF7	Dual Fan	20	40
	ZXD0500/E	TFD/TF7		20	40
	ZXD0600/E	TFD/TF7		20	40
	ZXD0750/E	TFD/TF7		20	40
ZXL	ZXL0200/E	TFD/TF5/TF7	Single Fan	40	80
	ZXL0250/E	TFD/TF5/TF7		40	80
	ZXL0300/E	TFD/TF5/TF7		40	80
	ZXL0350/E	TFD/TF5/TF7		40	80
	ZXL0400/E	TFD		40	80
	ZXL0400/E	TF5/TF7	Dual Fan	20	40
	ZXL0500/E	TFD/TF5/TF7		20	40
	ZXL0600/E	TFD/TF5/TF7		20	40
	ZXL0750/E	TFD/TF5/TF7		20	40

Conversion Chart

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

PRESSURE TEMPERATURE CHART AT SEA LEVEL

Red (Bar)=Vacuum

Black (Bar)=Vapor

Bold (Bar)=Liquid

°C	R12	R22	R-134a	R407A Vapor	R407A Liquid	R404A HP 62	R407C Vapor	R407C Liquid	R408A	R409A	R410A	R502	R507A AZ50*	°F
-45.6	0.53	0.21	0.63	0.30	0.03	0.00	0.37	0.09	0.07	0.63	0.34	-0.03	0.06	-50.0
-44.4	0.49	0.16	0.61	0.26	0.03	0.05	0.33	0.04	0.02	0.61	0.41	0.02	0.12	-48.0
-43.3	0.47	0.12	0.59	0.22	0.08	0.11	0.29	0.01	0.04	0.58	0.48	0.08	0.18	-46.0
-42.2	0.44	0.06	0.56	0.17	0.14	0.17	0.25	0.07	0.10	0.56	0.57	0.14	0.24	-44.0
-41.1	0.41	0.01	0.53	0.12	0.21	0.23	0.20	0.13	0.15	0.53	0.65	0.19	0.30	-42.0
-40.0	0.37	0.04	0.50	0.07	0.27	0.30	0.16	0.19	0.21	0.50	0.74	0.26	0.37	-40.0
-38.9	0.34	0.10	0.47	0.01	0.34	0.37	0.11	0.26	0.28	0.47	0.83	0.32	0.44	-38.0
-37.8	0.30	0.15	0.44	0.04	0.41	0.43	0.06	0.32	0.34	0.44	0.92	0.39	0.52	-36.0
-36.7	0.27	0.21	0.41	0.10	0.48	0.51	0.00	0.39	0.41	0.41	1.01	0.46	0.59	-34.0
-35.6	0.23	0.28	0.37	0.16	0.56	0.59	0.06	0.46	0.48	0.37	1.12	0.53	0.68	-32.0
-34.4	0.19	0.34	0.33	0.23	0.63	0.66	0.11	0.53	0.55	0.34	1.22	0.60	0.75	-30.0
-33.3	0.15	0.41	0.29	0.29	0.72	0.74	0.17	0.61	0.63	0.30	1.33	0.68	0.84	-28.0
-32.2	0.10	0.48	0.25	0.36	0.80	0.83	0.23	0.69	0.71	0.26	1.44	0.76	0.93	-26.0
-31.1	0.06	0.55	0.21	0.43	0.89	0.92	0.30	0.77	0.79	0.22	1.56	0.84	1.02	-24.0
-30.0	0.01	0.63	0.17	0.51	0.98	1.01	0.37	0.86	0.88	0.17	1.68	0.93	1.12	-22.0
-28.9	0.03	0.70	0.13	0.59	1.08	1.10	0.45	0.94	0.97	0.13	1.81	1.01	1.21	-20.0
-27.8	0.09	0.79	0.08	0.67	1.17	1.20	0.52	1.04	1.06	0.08	1.94	1.11	1.32	-18.0
-26.7	0.14	0.87	0.03	0.75	1.28	1.30	0.60	1.14	1.15	0.03	2.07	1.20	1.42	-16.0
-25.6	0.19	0.96	0.02	0.84	1.38	1.41	0.68	1.23	1.25	0.02	2.21	1.30	1.53	-14.0
-24.4	0.25	1.05	0.08	0.93	1.49	1.52	0.77	1.34	1.35	0.07	2.35	1.40	1.64	-12.0
-23.3	0.31	1.14	0.13	1.03	1.60	1.63	0.85	1.44	1.46	0.12	2.50	1.51	1.76	-10.0
-22.2	0.37	1.23	0.19	1.12	1.72	1.74	0.94	1.55	1.57	0.18	2.66	1.61	1.88	-8.0
-21.1	0.43	1.34	0.25	1.23	1.83	1.86	1.03	1.67	1.68	0.24	2.81	1.73	2.00	-6.0
-20.0	0.50	1.44	0.32	1.33	1.96	1.99	1.13	1.79	1.79	0.30	2.98	1.84	2.13	-4.0
-18.9	0.56	1.54	0.38	1.44	2.09	2.12	1.23	1.91	1.91	0.37	3.15	1.96	2.26	-2.0
-17.8	0.63	1.66	0.45	1.55	2.22	2.25	1.34	2.03	2.03	0.43	3.32	2.08	2.40	0.0
-16.7	0.70	1.77	0.52	1.67	2.36	2.39	1.45	2.17	2.16	0.50	3.50	2.21	2.54	2.0
-15.6	0.77	1.89	0.59	1.79	2.50	2.52	1.56	2.30	2.29	0.57	3.69	2.34	2.68	4.0
-14.4	0.85	2.01	0.66	1.92	2.65	2.67	1.68	2.43	2.43	0.65	3.88	2.48	2.83	6.0
-13.3	0.92	2.14	0.74	2.05	2.80	2.82	1.80	2.58	2.57	0.72	4.08	2.61	2.99	8.0
-12.2	1.01	2.26	0.82	2.18	2.95	2.97	1.92	2.72	2.71	0.80	4.29	2.76	3.15	10.0
-11.1	1.09	2.40	0.90	2.32	3.11	3.13	2.05	2.88	2.86	0.88	4.50	2.90	3.31	12.0
-10.0	1.17	2.54	0.99	2.46	3.28	3.30	2.19	3.03	3.01	0.97	4.72	3.06	3.48	14.0
-8.9	1.26	2.68	1.08	2.61	3.45	3.46	2.32	3.19	3.17	1.06	4.94	3.21	3.66	16.0
-7.8	1.35	2.82	1.17	2.76	3.62	3.63	2.46	3.36	3.32	1.14	5.17	3.37	3.83	18.0
-6.7	1.45	2.97	1.27	2.92	3.80	3.81	2.61	3.53	3.49	1.24	5.41	3.53	4.01	20.0
-5.6	1.54	3.12	1.37	3.08	3.99	4.00	2.77	3.71	3.66	1.34	5.65	3.70	4.21	22.0
-4.4	1.64	3.28	1.47	3.25	4.18	4.19	2.92	3.89	3.84	1.43	5.90	3.88	4.40	24.0
-3.3	1.74	3.45	1.58	3.42	4.37	4.38	3.08	4.08	4.02	1.54	6.15	4.06	4.60	26.0
-2.2	1.85	3.61	1.69	3.60	4.57	4.58	3.25	4.27	4.21	1.65	6.42	4.23	4.80	28.0
-1.1	1.96	3.79	1.80	3.78	4.78	4.78	3.42	4.46	4.39	1.76	6.69	4.43	5.01	30.0
0.0	2.07	3.97	1.92	3.97	4.99	4.99	3.59	4.67	4.59	1.87	6.97	4.62	5.23	32.0
1.1	2.18	4.15	2.03	4.17	5.21	5.21	3.78	4.88	4.79	1.99	7.26	4.81	5.45	34.0
2.2	2.30	4.34	2.16	4.37	5.43	5.43	3.97	5.09	5.00	2.10	7.55	5.02	5.68	36.0
3.3	2.42	4.53	2.28	4.57	5.67	5.66	4.16	5.31	5.21	2.23	7.86	5.23	5.91	38.0
4.4	2.54	4.73	2.41	4.79	5.90	5.89	4.36	5.53	5.43	2.36	8.17	5.44	6.15	40.0
5.6	2.67	4.93	2.55	5.00	6.14	6.12	4.56	5.77	5.65	2.49	8.48	5.66	6.39	42.0
6.7	2.80	5.14	2.69	5.23	6.40	6.37	4.77	6.00	5.88	2.62	8.81	5.89	6.65	44.0
7.8	2.94	5.35	2.83	5.46	6.66	6.62	4.99	6.25	6.12	2.77	9.14	6.12	6.90	46.0
8.9	3.08	5.57	2.98	5.70	6.92	6.88	5.21	6.50	6.36	2.90	9.48	6.35	7.17	48.0

PRESSURE TEMPERATURE CHART AT SEA LEVEL

Red (Bar)=Vacuum

Black (Bar)=Vapor

Bold (Bar)=Liquid

°C	R12	R22	R-134a	R407A Vapor	R407A Liquid	R404A HP 62	R407C Vapor	R407C Liquid	R408A	R409A	R410A	R502	R507A AZ50*	°F
10.0	3.21	5.80	3.13	5.94	7.19	7.14	5.43	6.75	6.60	3.06	9.83	6.59	7.44	50.0
11.1	3.36	6.03	3.29	6.19	7.46	7.41	5.67	7.01	6.86	3.21	10.20	6.84	7.72	52.0
12.2	3.50	6.26	3.45	6.44	7.74	7.70	5.91	7.28	7.11	3.36	10.57	7.10	8.01	54.0
13.3	3.66	6.51	3.61	6.71	8.03	7.98	6.16	7.56	7.38	3.52	10.94	7.35	8.30	56.0
14.4	3.81	6.76	3.79	6.98	8.33	8.27	6.41	7.84	7.65	3.68	11.34	7.62	8.59	58.0
15.6	3.97	7.01	3.96	7.26	8.63	8.57	6.68	8.13	7.93	3.86	11.73	7.89	8.90	60.0
16.7	4.14	7.27	4.14	7.54	8.94	8.88	6.94	8.43	8.21	4.03	12.14	8.17	9.21	62.0
17.8	4.30	7.54	4.32	7.83	9.26	9.19	7.22	8.74	8.50	4.21	12.56	8.46	9.54	64.0
18.9	4.48	7.81	4.51	8.13	9.59	9.50	7.50	9.05	8.80	4.39	12.99	8.74	9.86	66.0
20.0	4.66	8.09	4.70	8.44	9.92	9.83	7.79	9.37	9.10	4.58	13.42	9.04	10.20	68.0
21.1	4.83	8.37	4.90	8.76	10.26	10.17	8.09	9.69	9.42	4.77	13.87	9.34	10.54	70.0
22.2	5.01	8.67	5.11	9.08	10.61	10.51	8.39	10.03	9.74	4.97	14.32	9.66	10.89	72.0
23.3	5.20	8.97	5.32	9.41	10.97	10.86	8.70	10.37	10.06	5.17	14.79	9.98	11.25	74.0
24.4	5.39	9.28	5.53	9.75	11.34	11.22	9.03	10.72	10.40	5.38	15.27	10.30	11.62	76.0
25.6	5.59	9.59	5.75	10.10	11.71	11.59	9.35	11.07	10.74	5.59	15.76	10.63	11.99	78.0
26.7	5.79	9.90	5.98	10.46	12.09	11.96	9.69	11.43	11.09	5.81	16.26	10.97	12.38	80.0
27.8	6.00	10.23	6.21	10.82	12.48	12.34	10.03	11.81	11.44	6.03	16.77	11.32	12.77	82.0
28.9	6.21	10.57	6.45	11.19	12.88	12.73	10.39	12.19	11.81	6.26	17.29	11.67	13.17	84.0
30.0	6.43	10.91	6.69	11.57	13.28	13.13	10.75	12.58	12.18	6.50	17.83	12.03	13.58	86.0
31.1	6.64	11.26	6.94	11.97	13.70	13.54	11.12	12.98	12.56	6.74	18.37	12.40	13.99	88.0
32.2	6.87	11.61	7.19	12.37	14.12	13.96	11.50	13.39	12.94	6.99	18.93	12.78	14.42	90.0
33.3	7.10	11.98	7.46	12.78	14.56	14.39	11.88	13.80	13.34	7.23	19.50	13.16	14.86	92.0
34.4	7.33	12.35	7.72	13.20	15.01	14.82	12.28	14.23	13.74	7.50	20.08	13.55	15.30	94.0
35.6	7.57	12.73	7.99	13.63	15.46	15.26	12.69	14.66	14.16	7.76	20.68	13.95	15.76	96.0
36.7	7.81	13.12	8.28	14.06	15.92	15.72	13.10	15.10	14.58	8.03	21.28	14.36	16.22	98.0
37.8	8.06	13.51	8.57	14.51	16.39	16.18	13.52	15.55	15.01	8.30	21.90	14.78	16.70	100.0
38.9	8.32	13.92	8.86	14.97	16.87	16.66	13.96	16.01	15.45	8.59	22.53	15.20	17.18	102.0
40.0	8.58	14.32	9.15	15.44	17.36	17.14	14.41	16.48	15.90	8.88	23.18	15.63	17.67	104.0
41.1	8.84	14.74	9.46	15.92	17.86	17.63	14.86	16.96	16.35	9.17	23.84	16.08	18.17	106.0
42.2	9.11	15.17	9.77	16.41	18.37	18.13	15.32	17.45	16.82	9.47	24.51	16.52	18.69	108.0
43.3	9.39	15.61	10.10	16.91	18.89	18.65	15.79	17.95	17.29	9.78	25.20	16.99	19.21	110.0
44.4	9.67	16.06	10.42	17.43	19.42	19.17	16.28	18.46	17.78	10.10	25.90	17.45	19.74	112.0
45.6	9.95	16.51	10.76	17.94	19.97	19.70	16.78	18.97	18.27	10.42	26.61	17.93	20.29	114.0
46.7	10.25	16.97	11.10	18.48	20.52	20.25	17.28	19.50	18.77	10.74	27.34	18.41	20.85	116.0
47.8	10.54	17.45	11.45	19.03	21.08	20.81	17.80	20.04	19.29	11.08	28.09	18.91	21.41	118.0
48.9	10.85	17.93	11.81	19.59	21.66	21.37	18.33	20.59	19.81	11.43	28.85	19.41	21.99	120.0
50.0	11.16	18.42	12.17	20.16	22.23	21.95	18.87	21.15	20.34	11.78	29.62	19.92	22.59	122.0
51.1	11.47	18.92	12.54	20.74	22.83	22.54	19.42	21.72	20.89	12.14	30.41	20.45	23.19	124.0
52.2	11.79	19.43	12.92	21.33	23.44	23.14	19.99	22.30	21.44	12.50	31.22	20.99	23.80	126.0
53.3	12.12	19.94	13.31	21.94	24.06	23.75	20.56	22.90	22.01	12.88	32.04	21.52	24.43	128.0
54.4	12.45	20.48	13.70	22.56	24.68	24.38	21.14	23.50	22.58	13.26	32.88	22.08	25.07	130.0
55.6	12.79	21.01	14.11	23.19	25.32	25.02	21.75	24.12	23.17	13.64	33.74	22.65	25.72	132.0
56.7	13.14	21.56	14.52	23.84	25.98	25.67	22.36	24.74	23.77	14.04	34.61	23.22	26.39	134.0
57.8	13.49	22.12	14.94	24.50	26.64	26.34	22.99	25.38	24.37	14.44	35.50	23.81	27.06	136.0
58.9	13.85	22.69	15.37	25.18	27.32	27.01	23.63	26.03	24.99	14.86	36.41	24.40	27.75	138.0
60.0	14.21	23.27	15.81	25.87	28.01	27.70	24.28	26.69	25.62	15.28	37.34	25.01	28.46	140.0
61.1	14.58	23.86	16.26	26.57	28.71	28.41	24.94	27.36	26.27	15.70	38.29	25.62	29.18	142.0
62.2	14.96	24.46	16.71	27.29	29.43	29.13	25.63	28.04	26.92	16.14	39.26	26.26	29.92	144.0
63.3	15.34	25.07	17.17	28.02	30.15	29.87	26.32	28.74	27.59	16.59	40.24	26.90	30.67	146.0
64.4	15.73	25.69	17.65	28.77	30.90	30.61	27.03	29.45	28.27	17.05	41.25	27.54	31.43	148.0
65.6	16.13	26.32	18.13	29.54	31.65	31.39	27.76	30.17	28.96	17.51	42.28	28.21	32.22	150.0

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