Leading the Future in Refrigeration Technology

EMERSON
ZX Platform Condensing Unit
PRODUCT CATALOGUE

Copeland Scroll™

EMERSON™
Climate Technologies

EMERSON. CONSIDER IT SOLVED.™

Emerson ZX platform condensing units

Emerson Climate Technologies is pleased to offer the ZX platform refrigeration condensing units (CDU) specifically designed for medium temperature (MT), digital modulated variable capacity medium temperature (MT) and low temperature (LT) refrigeration. Emerson's CDU range comes with unique features and applies its advanced and patented scroll technologies that redefine the standards of efficiency and reliability for this category of products.

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 CDU's have been applied by several well known end-users and chain retailers throughout Asia. The ZX platform is also gaining wider acceptance in the global market and specific variants have been developed and exported to the USA, European and Middle East markets.

The fixed capacity ZX platform CDUs come with Emerson Climate Technologies' highly successful "E2 Controller". E2 controller provides real-time monitoring of compressor operating conditions and initiates actions to keep the compressor within the safe zone. When fault conditions are detected, the controller initiates temporary shutdowns and sends specific warning signals to facilitate service. In the event of continued errors, the controller will shutdown the unit thereby preventing costly equipment failure and send alarm signals. The controller is also designed to activate an external telephone dialer to be notified on a preset telephone number. This feature can also be used to automatically start a back-up unit in critical applications.

The Digital modulated variable capacity ZXD MT CDU comes with Emerson Climate Technologies proven "EC2-552" controller. The EC2 controller provides real time load estimation and controls the delivered capacity by changing the Digital modulation rate. The controller also provides the basic protection including the high discharge temperature trip. The controller also displays the suction pressure, saturated evaporating temperature based on the suction pressure, modulation rate and discharge line temperature. The controller has manual and web enabled interface for setting up the initial parameters required to be set up.

Emerson's highly successful Copeland® brand scroll compressors drive the high efficiency of the ZX platform of CDUs. Over 50 millions Copeland® brand scroll compressors sold across the globe stand testimony to the extraordinary confidence and success in our scroll technology.

However, we have not rested on these laurels alone when it comes to our ZX platform CDUs.

The ZX range of MT CDUs benefits from patented scroll suction injection technology. This allows the scroll compressor to provide a superior MT envelope.

ZXD range of Digital modulated MT CDUs benefit from the patented Digital scroll technology. This allows a simple and very reliable variable capacity system at MT envelope.

ZX LT CDU applies vapor injection technology. This allows an economizer cycle on scroll compressors. Vapor injection significantly improves the LT operational efficiency and extends the LT envelope.

Emerson Climate Technologies continues to focus on the ZX CDU platform to develop discernibly superior solutions for the demanding refrigeration market.

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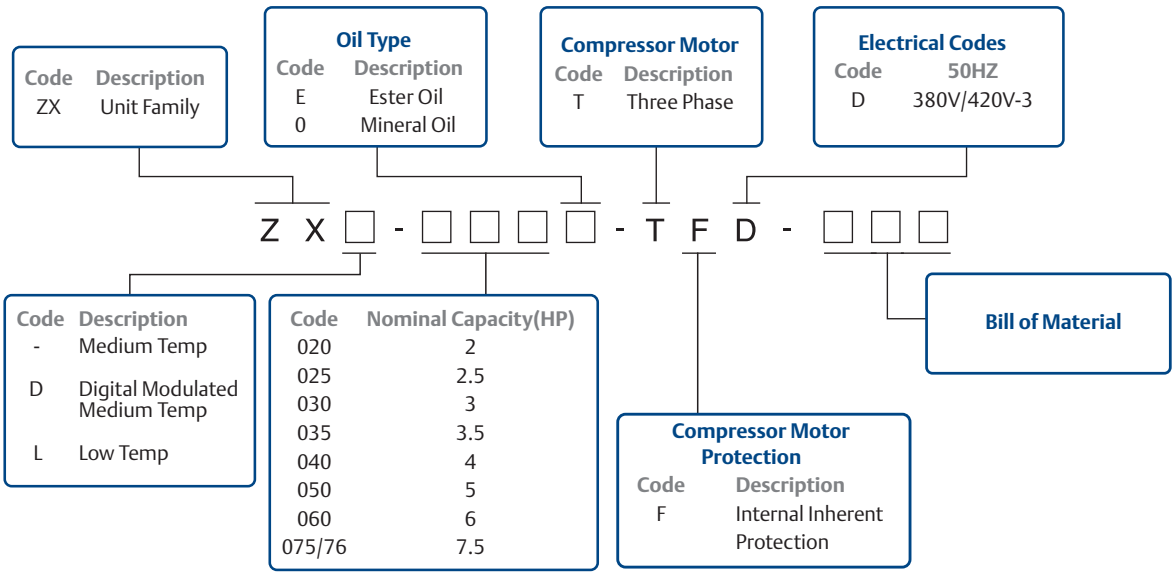
Model Nomenclature



Bill Of Material (BOM)

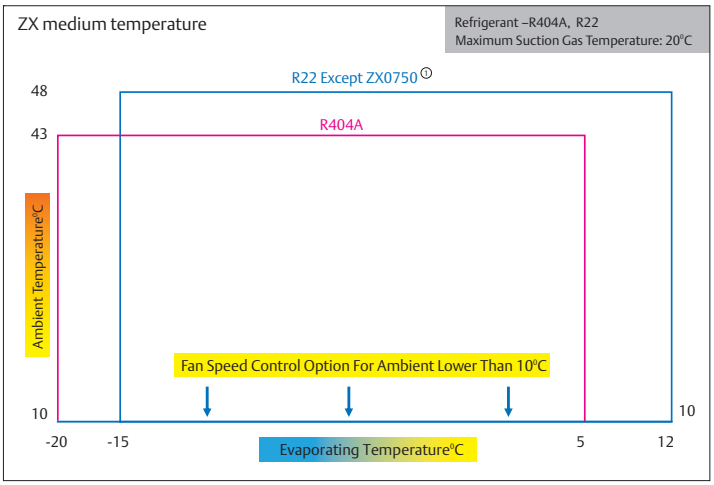
ZX Medium Temperature	Gold			
BOM Number	400	450	401	451
Liquid Line Filter Dryer/Sight Glass	■	■	■	■
Oil Separator		■		■
Adjustable LP Switch	■	■	■	■
Fan Speed Controller			■	■
Diagnostic Module	■	■	■	■
Buzzer	■	■	■	■
Circuit Breaker	■	■	■	■
Sound Jacket	■	■	■	■
Defrost Module	ACC	ACC	ACC	ACC

ZXD Medium Temperature	Gold	
BOM Number	450	451
Liquid Line Filter Dryer/Sight Glass	■	■
Oil Separator	■	■
LP Control	■	■
Fan Speed Controller		■
Display Panel	■	■
Circuit Breaker	■	■
Sound Jacket	■	■

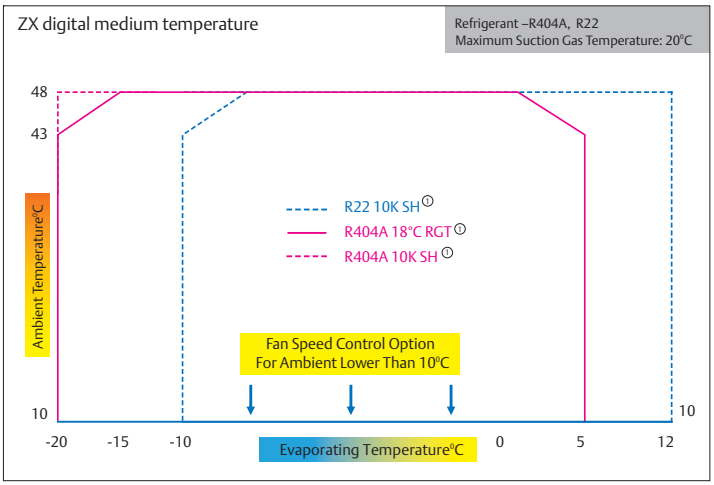
ZX Low Temperature	Gold	
BOM Number	450	451
Liquid Line Filter Dryer/Sight Glass	■	■
Oil Separator	■	■
Adjustable LP Switch	■	■
Fan Speed Controller		■
Diagnostic Module	■	■
Buzzer	■	■
Circuit Breaker	■	■
Sound Jacket	■	■
Defrost Module	ACC	ACC

Note: Acc=Accessory

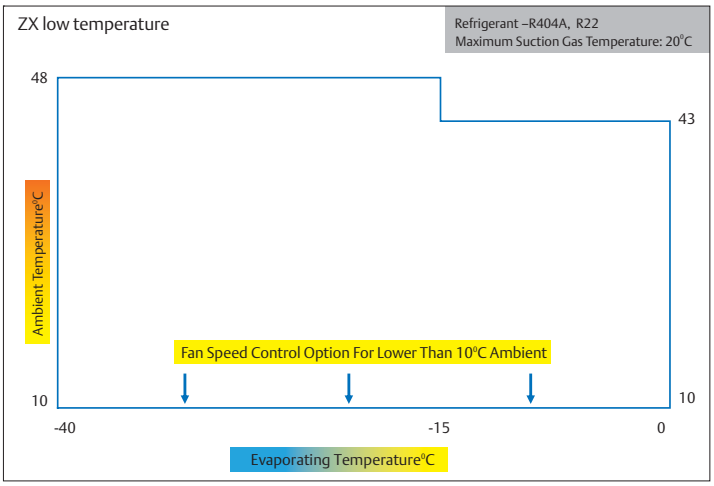
Envelope



Note①: For model ZX0750 Max Amb: 43°C , Max Evep: 5°C



Note①: For model ZXD075/E Max Amb: 43°C , Max Evep: 5°C



ZX **medium temperature** series

Capacity And Power (kW) At **50Hz**

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Model	Ambient Temperature (°C)	Capacity							Power						
		Evaporating Temperature (°C)							Evaporating Temperature (°C)						
		-15	-10	-5	0	5	10	12	-15	-10	-5	0	5	10	12
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
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	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	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	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	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

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

ZX **medium temperature** series

Capacity And Power (kW) At **50Hz**

R404A/R507

Model	Ambient Temperature (°C)	Capacity						Power					
		Evaporating Temperature (°C)						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
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	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	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	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	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

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

ZX Digital **medium temperature** series

R22

Capacity And Power (kW) At **50Hz**

Model	Ambient Temperature (°C)	Capacity						Power					
		Evaporating Temperature (°C)						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

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

ZX Digital **medium temperature** series

Capacity And Power (kW) At **50Hz**

R404A/R507

Model	Ambient Temperature (°C)	Capacity						Power					
		Evaporating Temperature (°C)						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	2.7	2.85	3.02	3.21	3.43	3.68
	32	5.53	6.69	7.87	9.11	10.4	11.75	2.99	3.12	3.27	3.44	3.64	3.87
	38	4.9	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	7.4	8.48	9.59	4.02	4.1	4.21	4.34	4.5	4.68
	48	3.56	4.56	5.54	6.53	7.51		4.55	4.61	4.7	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	7.53	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
	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	

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

at suction superheat of 10K,

Power include condenser fan.

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

ZX **low temperature** series

Capacity And Power (kW) At **50Hz**

R22

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
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.

ZX **low temperature** series

Capacity And Power (kW) At **50Hz**

R404A/R507

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
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			

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.

Technical Data

Model	ZX0200 ZX020E	ZX0300 ZX030E	ZX0400 ZX040E	ZX0500 ZX050E	ZX0600 ZX060E	ZX0750 ZX075E	ZX0760 ZX076E
CDU Capacity @ GB/ARI MT Condition: ET/AT/RGT -6.7/32/18.3°C (R22/R404A)(KW)	3.85/4.30	5.50/6.00	7.30/7.80	9.30/10.70	11.20/11.80	12.60/13.20	12.85/13.46
CDU COP @ GB/ARI MT Condition: ET/AT/RGT-6.7/32/18.3°C (R22/R404A)	2.41/2.26	2.50/2.35	2.52/2.29	2.66/2.43	2.60/2.41	2.57/2.40	2.65/2.50
Compressor Model (R22/R404A)	ZX15KC-TFD ZX15KCE-TFD	ZX21KC-TFD ZX21KCE-TFD	ZX30KC-TFD ZX30KCE-TFD	ZX38KC-TFD ZX38KCE-TFD	ZX45KC-TFD ZX45KCE-TFD	ZX51KC-TFD ZX51KCE-TFD	ZX51KC-TFD ZX51KCE-TFD
Norminal Input Rating (HP)	2	3	4	5	6	7.5	7.5
Oil Type	MINERAL/ POE	MINERAL/ POE	MINERAL/ POE	MINERAL/ POE	MINERAL/ POE	MINERAL/ POE	MINERAL/ POE
Compressor Oil Re Charge Volume (Litres)	1.18	1.33	1.83	1.83	1.66	1.66	1.66
Oil Separater Charge Volume (Litres)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Compressor Rated Load Current (A) (R22/R404A)	4.3/5.0	5.7/6.1	7.4/7.5	8.9/9.6	11.5/11.5	12.0/11.8	12.0/11.8
Compressor Locked Rotor Current (A)	26	36	44.3	58.6	67	101	101
Number of Fans	1	1	1	2	2	2	2
Total Fan Motor (W)	116	116	116	246	246	246	246
Fan Diameter (mm)	450	450	450	450	450	450	450
Fan Speed (rpm)	830	830	830	830	830	830	830
Receiver Volume at 32C (kg)(R22/R404A)	5.1/4.4	5.1/4.4	5.1/4.4	7.2/6.3	7.2/6.3	7.2/6.3	7.2/6.3
Suction Pipe Outer Diameter (Inch)	3/4	3/4	7/8	7/8	7/8	7/8	7/8
Liquid Pipe Outer Diameter (Inch)	1/2	1/2	1/2	1/2	1/2	1/2	1/2
ZX Sound level @ 1m (dBA)	60	60	60	60	60	60	60
Net Weight(kg)	76	79	91	108	112	118	121
Dimension of CDU (mm)	1029X424 X840	1029X424 X840	1029X424 X840	1029X424 X1242	1029X424 X1242	1029X424 X1242	1029X424 X1242
Air Flow (m^3/h)	2922	2922	2922	5910	5910	5910	5910

Technical Data

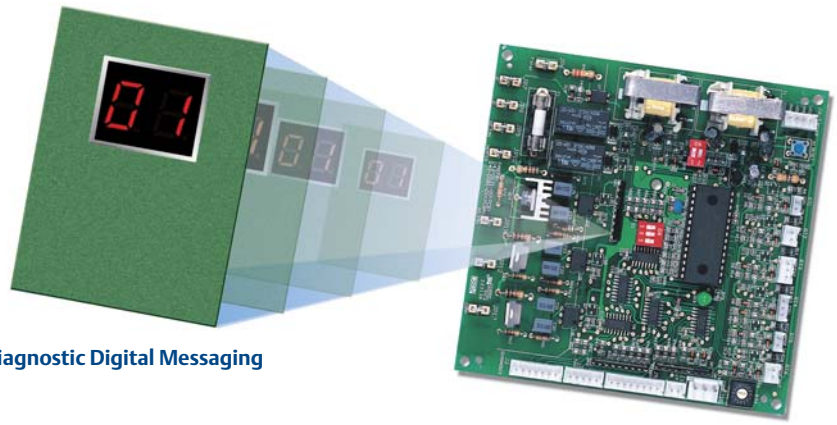
Model	ZXD0400 ZXD040E	ZXD0500 ZXD050E	ZXD0600 ZXD060E	ZXD0750 ZXD075E	ZXD0760 ZXD076E
CDU Capacity@ GB/ARI MT Condition: ET/AT/RGT -6.7/32/18.3°C (R22/R404A)(KW)	7.76/8.3	9.3/10.7	11.2/11.8	12.6/13.2	12.85/13.46
CDU COP@ GB/ARI MT Condition: ET/AT/RGT-6.7/32/18.3°C (R22/R404A)	2.67/2.47	2.66/2.43	2.6/2.41	2.57/2.4	2.67/2.49
Compressor Model (R22/R404A)	ZBD29KQ(E)-TFD	ZBD38KQ(E)-TFD	ZBD45KQ(E)-TFD	ZBD48KQ(E)-TFD	ZBD48KQ(E)-TFD
Norminal Input Rating (HP)	4	5	6	7.5	7.6
Oil Type	Mineral/POE	Mineral/POE	Mineral/POE	Mineral/POE	Mineral/POE
Compressor Oil Re Charge Volume (Litres)	1.24	1.77	1.77	1.77	1.77
Oil Separater Charge Volume (Litres)	0.5	0.5	0.5	0.5	0.5
Compressor Rated Load Current (A) (R22/R404A)	7.9/7.7	10/10.4	10/9.6	12.1/12.4	12.1/12.4
Compressor Locked Rotor Current (A)	48.0	64.0	74.0	100.0	100.0
Number of Fans	2	2	2	2	2
Total Fan Motor (W)	246	246	246	246	246
Fan Diameter (mm)	450	450	450	450	450
Fan Speed (rpm)	830	830	830	830	830
Receiver Volume at 32C (kg)(R22/R404A)	7.2/6.3	7.2/6.3	7.2/6.3	7.2/6.3	7.2/6.3
Suction Pipe Outer Diameter (Inch)	7/8	7/8	7/8	7/8	7/8
Liquid Pipe Outer Diameter (Inch)	1/2	1/2	1/2	1/2	1/2
ZXD Sound level @ 1m (dBA)/ 100% Modulation	60	60	60	60	60
Net Weight(kg)	104	112	114	119	122
Dimension of CDU (mm)	1029X424X1242	1029X424X1242	1029X424X1242	1029X424X1242	1029X424X1242
Air Flow (m^3/h)	5910	5910	5910	5910	5910

Technical Data

Model	ZXL0200 ZXL020E	ZXL0250 ZXL025E	ZXL0300 ZXL030E	ZXL0350 ZXL035E	ZXL0400 ZXL040E	ZXL0500 ZXL050E	ZXL0600 ZXL060E	ZXL0750 ZXL075E
CDU Capacity @ ARI LT Condition: ET/AT/RGT-32/32/5°C(R22/R404A)(KW)	1.7/2.11	1.91/2.51	2.34/2.80	2.78/3.65	3.57/4.26	4.05/4.99	4.96/5.91	5.39/6.65
CDU COP @ ARI LT Condition: ET/AT/RGT-32/32/5°C (R22/R404A)	1.20/1.24	1.17/1.28	1.28/1.29	1.26/1.34	1.24/1.29	1.29/1.36	1.27/1.33	1.28/1.38
CDU Capacity @ GB LT Condition: ET/AT/RGT-23/32/5°C(R22/R404A)(KW)	2.37/2.86	2.87/3.54	3.21/3.84	4.04/5.00	5.04/6.03	6.02/6.92	6.90/8.44	7.78/9.05
CDU COP @ GB LT Condition: ET/AT/RGT-23/32/5°C (R22/R404A)	1.51/1.51	1.63/1.67	1.59/1.59	1.68/1.67	1.57/1.60	1.76/1.71	1.62/1.68	1.68/1.66
Compressor Model (R22/R404A)	ZXI06KC-TFD ZXI06KCE-TFD	ZXI08KC-TFD ZXI08KCE-TFD	ZXI09KC-TFD ZXI09KCE-TFD	ZXI11KC-TFD ZXI11KCE-TFD	ZXI14KC-TFD ZXI14KCE-TFD	ZXI15KC-TFD ZXI15KCE-TFD	ZXI18KC-TFD ZXI18KCE-TFD	ZXI21KC-TFD ZXI21KCE-TFD
Norminal Input Rating (HP)	2	2.5	3	3.5	4	5	6	7.5
Oil Type	MINERAL/POE	MINERAL/POE	MINERAL/POE	MINERAL/POE	MINERAL/POE	MINERAL/POE	MINERAL/POE	MINERAL/POE
Compressor Oil Re Charge Volume(Litres)	0.56	0.56	0.56	1.24	1.24	1.24	1.77	1.77
Oil Separater Charge Volume (Litres)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Compressor Rated Load Current(A) (R22/R404A)	5.4/5.6	5.5/6.2	5.7/6.0	7.4/8.3	8.1/8.6	8.8/10	11.1/11.1	12.1/14.6
Compressor Locked Rotor Current (A)	39.2	39.2	39.2	51.5	51.5	51.5	74	101
Number of Fans	1	1	1	1	1	2	2	2
Total Fan Motor (W)	116	116	116	116	116	246	246	246
Fan Diameter (mm)	450	450	450	450	450	450	450	450
Fan Speed (rpm)	830	830	830	830	830	830	830	830
Receiver Volume at 32C (kg)(R22/R404A)	5.1/4.4	5.1/4.4	5.1/4.4	5.1/4.4	5.1/4.4	7.2/6.3	7.2/6.3	7.2/6.3
Suction Pipe Outer Diameter (Inch)	3/4	3/4	3/4	7/8	7/8	7/8	7/8	7/8
Liquid Pipe Outer Diameter (Inch)	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
ZXL Sound level @ 1m (dBA)	60	60	60	61	61	61	61	61
Net Weight(kg)	79	81	81	93	93	106	116	121
Dimension of CDU(mm)	1029X424 X840	1029X424 X840	1029X424 X840	1029X424 X840	1029X424 X840	1029X424 X1242	1029X424 X1242	1029X424 X1242
Air Flow (m^3/h)	2922	2922	2922	2922	2922	5910	5910	5910

ZX Platform Fixed Capacity CDU Diagnostics (Medium and Low Temperature)

- 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



Diagnostic Digital Messaging

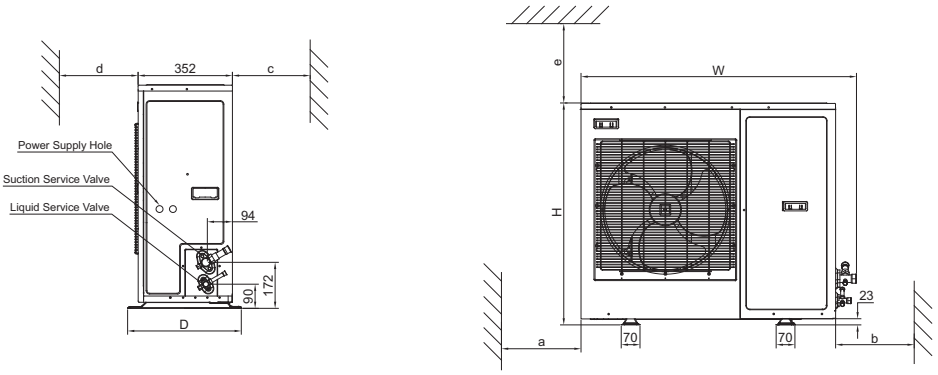
Built-in ZX Platform Controller

ZX Digital CDU Electronics Display & Alarm Features (Medium Temperature)

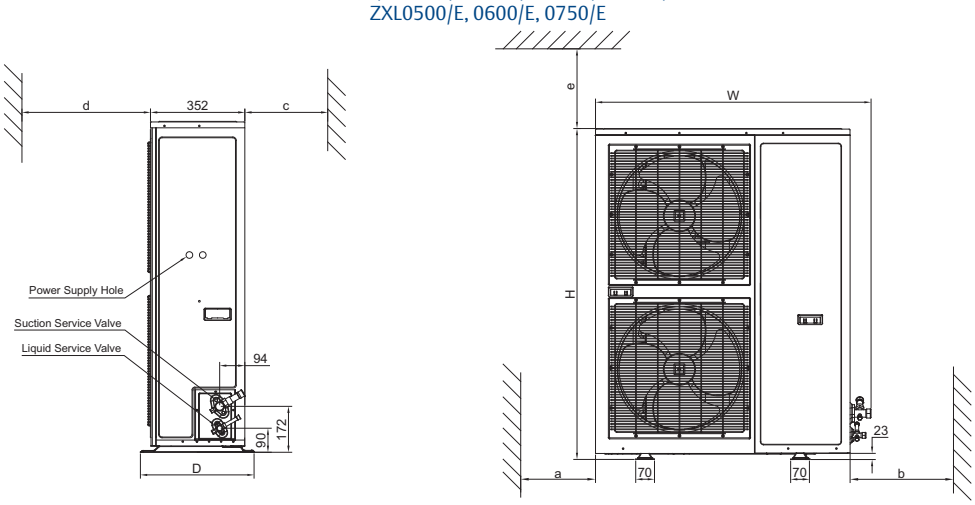
- Compressor Status
- Suction Pressure
- Saturated Suction Temperature
- Digital Modulation Rate
- Discharge Temperature
- Low Pressure Alarm
- Discharge Temperature Alarm

Dimensional Drawing

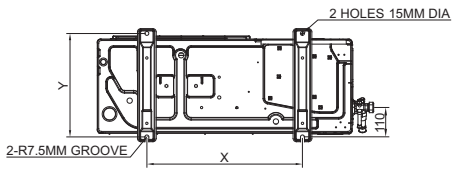
ZX0200/E, 0300/E, 0400/E
ZXL0200/E, 0250/E, 0300/E, 0350/E, 0400/E



ZX0500/E, 0600/E, 0750/E, 0760/E
ZXD0400/E, 0500/E, 0600/E, 0750/E, 0760/E
ZXL0500/E, 0600/E, 0750/E



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
ZX0200/E, 0300/E, 0400/E ZXL0200/E,0250/E,0300/E,0350/E,0400/E	1029	840	424	580	388	3/4"①	1/2"	300	500	300	500	500
ZX0500/E, 0600/E, 0750/E, 0760/E ZXD0400/E, 0500/E, 0600/E, 0750/E, 0760/E ZXL0500/E, 0600/E, 0750/E	1029	1242	424	580	388	7/8"	1/2"	300	500	300	500	500

NOTE①: ZX MT 2HP & 3HP: 3/4"; ZX MT 4HP: 7/8"
ZX LT 2HP, 2.5HP & 3HP: 3/4"; ZX LT 3.5HP & 4HP: 7/8"

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October 2009