

Copeland scroll ZXV variable speed condensing unit

For refrigeration applications



COPELAND

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ZXV condensing unit

Copeland is pleased to offer the ZXV/ZXLV variable speed condensing units from ZX platform, especially designed for refrigeration applications.

Overall, ZX platform CDU (ZX and ZXB medium temperature, ZXL low temperature, ZXD/ZXLD digital modulated capacity medium temperature and low temperature, ZXV/ZXLV variable speed medium temperature and low temperature refrigeration) has been highly successful in the Asian market and enjoys proven success with its energy savings and customer-friendly electronic features.



Disclaimer

Thank you for purchasing the ZXV condensing unit from Copeland. ZX platform CDUs are the best in class within the capacity and operating range available in the market. ZX CDU is designed to operate reliably and to deliver high operating efficiencies in medium and low temperature refrigeration applications. It also provides constant monitoring of the compressor operating conditions and displays the running or fault conditions of the CDU. ZX platform CDUs have to be installed by following the industry trade practices for its safe and reliable operation. It is assumed that the CDU is selected, installed and serviced only by professionals. The user manual does not cover good industry practices which are essential on a refrigeration equipment installation. No responsibility can be accepted for damage caused by inexperienced or inadequately trained site technicians or improper installation design.

If in doubt, please consult your local sales office, quoting unit model and serial number as shown on each unit nameplate. In case of any ambiguity, the wiring diagram supplied with each unit takes precedence over the diagram in this manual.

Introduction to ZX platform CDU

ZX and ZXB medium temperature, ZXL low temperature, ZXD/ZXLD digital modulated capacity medium temperature and low temperature, ZXV/ZXLV variable speed medium temperature and low temperature series have been highly successful in the Asian market and enjoys proven success with its energy savings and customer-friendly electronic features. ZX platform CDUs 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 US, European and Middle East markets.

Receiving your unit

All units are shipped with a holding charge of dry nitrogen inside at a low but positive pressure. Suitable labeling is prominently displayed on both the unit and the packaging. Service connectors are provided on the CDU service valve for the convenient checking of the integrity of the holding charge.

Caution! It is very important to check that this holding pressure exists at the time you receive each unit from us or our authorized representatives. Please inform us or our authorized representative if the holding charge is non-existent. Failure to do so could void the claim for other related system faults at a later period.

Transit damage is essentially an insurance claim and is not covered under manufacturing defect. It is also advisable to inspect the rest of the unit for obvious physical damage and inform us or our authorized representative in case any damage is discovered.

ZX platform condensing unit was designed based on three factors demanded by industry users

Intelligent Store solution - A most innovative approach to enterprise facility management, Intelligent Store by Copeland architecture integrates hardware and services, to provide retailers a single view into their entire network of facilities and understanding what facilities actually cost to operate and maintain.

The Intelligent Store architecture transforms data from store equipment and controls into actionable insights. Designed to deliver value in both new and existing stores, Copeland aims to help the retailers:

- Make better decisions on recourse investment for greatest impact
- Gain accurate feedback and customized service for your specific needs
- Reduce operational costs and boosting profitability

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

Reliability - Combining the proven reliability of Copeland Scroll compressors with advanced electronic controllers 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 and 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.

Intelligent store	➡	Better decision making
Highest efficiency	➡	Lower energy bills
Reliability	➡	Lower maintenance cost

ZXD, ZXLD, ZXV family

Capacity modulation digital and variable speed to control precise room or showcase temperature

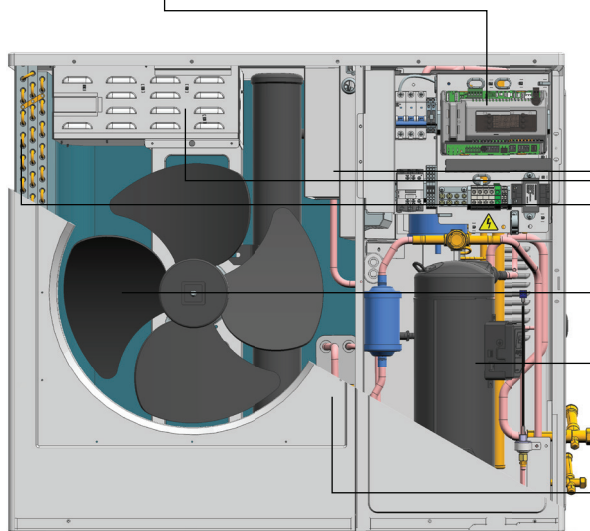


ZX, ZXB and ZXL family

Proprietary electronic algorithms present advantage on diagnose, communication, and protection purposes. They are also fundamental to control fan speed, optimizing energy performance for local seasonal ambient temperatures

Design features

- With real time monitoring of compressor operating conditions
- Compressor reverse rotation protection
- Compressor over current protection
- Compressor internal motor protector trip
- Discharge gas over heat protection
- Over voltage protection
- Under voltage protection
- High pressure cut out
- Low pressure cut out
- Refrigerant flood back protection
- Compressor minimum off time protection
- Internal thermal sensor failure
- Intelligent Store solution:
- Communication and retail store monitoring
- Thermal overload protection



Drive assembly

- High reliability with good cooling
- Easy service with quick connectors

Good harmonic with choke

Optimized condenser coil for maximum heat transfer

Variable speed fan motor and high efficiency fan blade

Copeland Scroll compressor technology

High efficiency, ultra quiet, high reliability

Enhanced vapor injection

- Improved efficiency
- Combined DLT protection

Figure 1. ZXV CDU features

ZXV Nomenclature

Z	X	V	0	6	5	B	E	—	4	X	D	—	4	5	1
Condensing platform		V = Medium temp variable speed LV = Low temp variable speed				B = Next generation	P = R410A, POE oil E = R404A, POE oil	—	4XD = 3 phase, 380-420V, 50Hz 4XK = 3 phase, 380-420V, 60Hz 5XJ = 3 phase, 200-240V, 60Hz			—			1
Base model									Electrical code				Bill of material		
													Bill of material 451 = Chassis with hinged door 551 = Chassis with front panel		

Note: *Maximum capacity condition of evap temp/amb temp/return gas temp

Medium temp -10°C/40°C/18.3°C

Low temp -32°C/40°C/5°C

Quick select guide

BOM Table	ZXV		ZXLV	
	451 / 551	581	451 / 551	581
Liquid Line Filter Dryer	✓	✓	✓	✓
Liquid Line Moisture Indicator	✓	✓	✓	✓
Liquid Receiver	✓	✓	✓	✓
Oil Separator	✓	✓	✓	✓
Accumulator			✓	✓
LP Transducer	✓	✓	✓	✓
Fixed LP Switch	✓	✓	✓	✓
Fixed HP Switch	✓	✓	✓	✓
Copeland Controller	✓	✓	✓	✓
Fan Speed Control	✓	✓	✓	✓
Intelligent Store Solution Module	✓	✓	✓	✓
Circuit Breaker	✓	✓	✓	✓
Sound Jacket	✓	✓	✓	✓
Low Ambient Kit		✓		✓
Enhanced Vapor Injection	✓	✓	✓	✓

Physical layout of the unit

The following figures give an introduction to the physical layout of the ZXV CDU

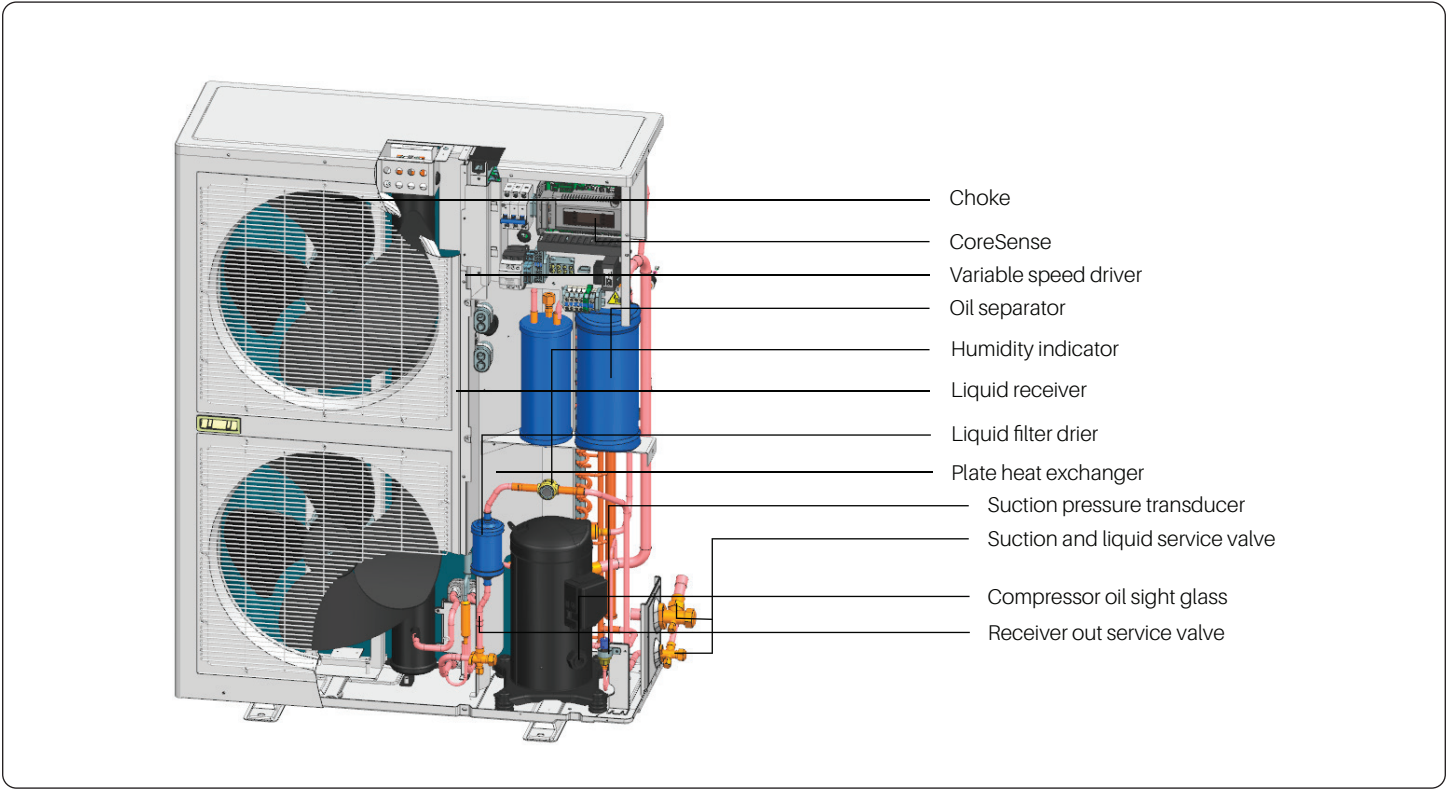
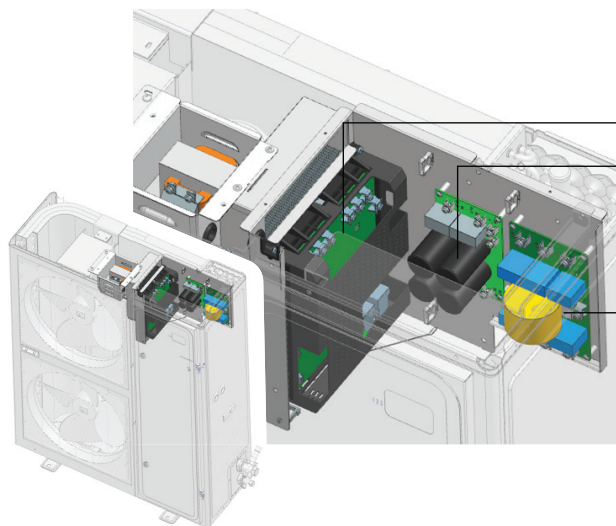


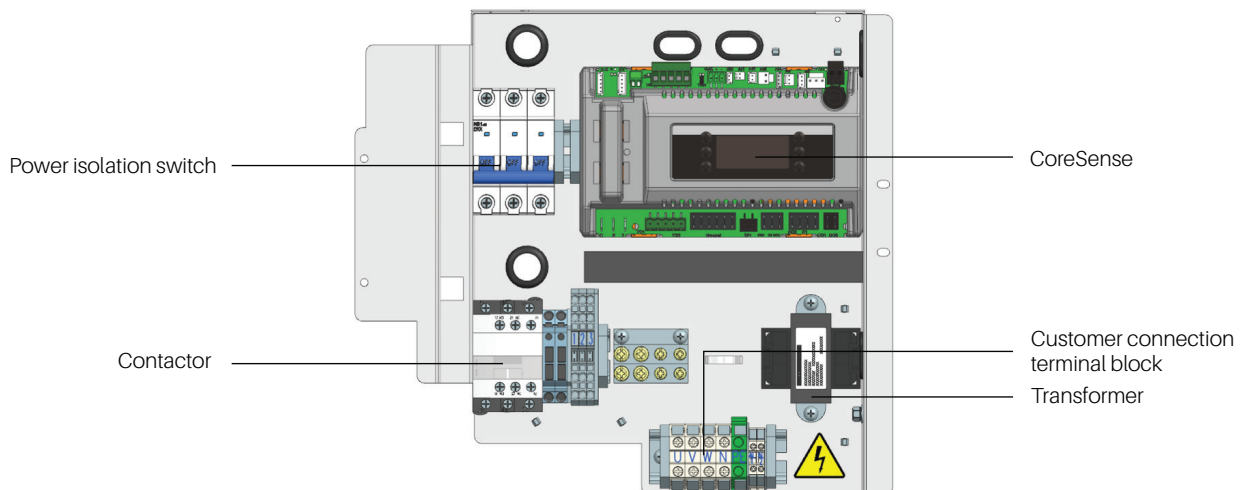
Figure 2. ZXV CDU layout



Variable speed driver

Capacitor board

EMI Filter board



Power isolation switch

Contactor

CoreSense

Customer connection
terminal block

Transformer

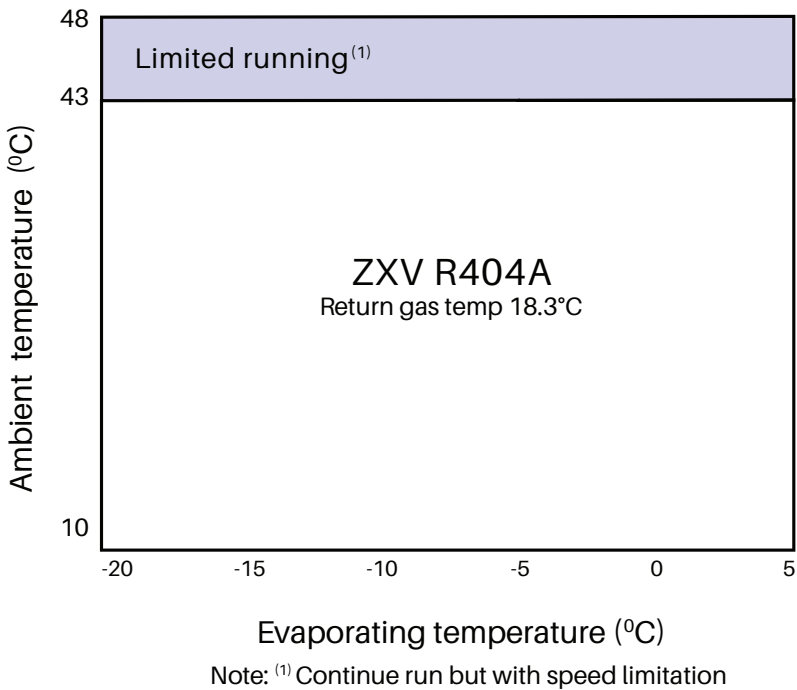
Qualified refrigerant and oils

Refrigerant	Oil
R404A, R448A, R449A	Emkarate RL 32 3 MAF / Mobil EAL Artic 22 CC

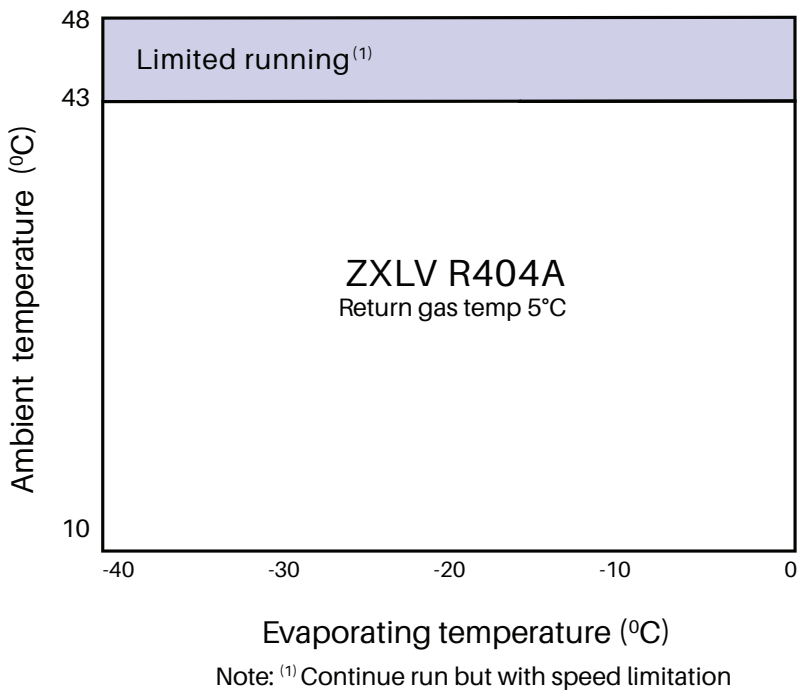
Oils are pre-charged in both compressor and oil separator.

Operating envelopes

Medium temperature



Low temperature



Performance data - R404A/R507A

Model ZXV		Ambient temperature (°C)	Evaporating temperature (°C)																	
			-20			-15			-10			-5			0			5		
			Min	Nor	Max	Min	Nor	Max	Min	Nor	Max	Min	Nor	Max	Min	Nor	Max	Min	Nor	Max
ZXV05BE	Capacity (kW)	27	1.81	4.05	5.46	2.23	4.75	6.30	2.70	5.56	7.24	3.20	6.26	8.07	3.76	6.96	8.90	4.32	7.34	8.85
		32	1.67	3.68	5.11	2.13	4.42	5.96	2.58	5.18	6.93	3.09	6.04	7.75	3.63	6.71	8.58	4.18	6.95	8.38
		38	1.57	3.47	4.67	1.93	4.15	5.60	2.41	4.92	6.58	2.98	5.75	7.29	3.48	6.25	8.00	3.99	6.49	7.82
		43	1.44	3.24	4.24	1.86	3.98	5.16	2.27	4.63	5.94	2.84	5.46	6.77	3.25	5.89	7.60	3.66	6.06	7.47
	Power (kW)	27	0.88	1.68	2.40	0.87	1.80	2.58	0.87	1.92	2.71	0.89	1.98	2.88	0.91	2.09	3.08	0.92	2.26	3.43
		32	0.98	1.86	2.62	0.99	1.98	2.79	0.99	2.11	2.95	0.99	2.18	3.20	1.02	2.33	3.47	1.04	2.52	3.93
		38	1.13	2.11	2.93	1.13	2.23	3.13	1.13	2.36	3.31	1.14	2.43	3.57	1.18	2.60	3.85	1.22	2.81	4.33
		43	1.24	2.36	3.27	1.26	2.49	3.48	1.29	2.64	3.68	1.29	2.71	3.94	1.31	2.84	4.17	1.33	3.03	4.63
ZXV06BE	Capacity (kW)	27	1.81	4.66	5.94	2.23	5.46	6.85	2.70	6.47	8.23	3.20	7.49	9.39	3.76	8.32	10.11	4.32	8.78	10.06
		32	1.67	4.41	5.68	2.13	5.29	6.62	2.58	6.20	7.87	3.09	7.22	9.02	3.63	8.03	9.75	4.18	8.48	9.74
		38	1.57	4.16	5.31	1.93	4.97	6.36	2.41	5.89	7.48	2.98	6.88	8.63	3.48	7.48	9.09	3.99	7.76	8.89
		43	1.44	3.88	5.05	1.86	4.77	6.14	2.27	5.55	6.75	2.84	6.53	8.15	3.25	7.04	8.64	3.66	7.25	8.49
	Power (kW)	27	0.88	2.16	2.96	0.87	2.31	3.18	0.87	2.35	3.35	0.89	2.55	3.56	0.91	2.70	3.80	0.92	2.91	4.24
		32	0.98	2.38	3.24	0.99	2.54	3.44	0.99	2.59	3.64	0.99	2.81	3.95	1.02	3.00	4.28	1.04	3.25	4.85
		38	1.13	2.70	3.62	1.13	2.86	3.87	1.13	2.89	4.11	1.14	3.14	4.41	1.18	3.35	4.75	1.22	3.62	5.35
		43	1.24	3.03	4.04	1.26	3.19	4.30	1.29	3.24	4.57	1.29	3.50	4.86	1.31	3.66	5.15	1.33	3.91	5.71
ZXV08BE	Capacity (kW)	27	1.81	4.66	5.94	2.23	5.46	6.85	2.70	6.47	8.23	3.20	7.49	9.39	3.76	8.32	10.11	4.32	8.78	10.06
		32	1.67	4.41	5.68	2.13	5.29	6.62	2.58	6.20	7.87	3.09	7.22	9.02	3.63	8.03	9.75	4.18	8.48	9.74
		38	1.57	4.16	5.31	1.93	4.97	6.36	2.41	5.89	7.48	2.98	6.88	8.63	3.48	7.48	9.09	3.99	7.76	8.89
		43	1.44	3.88	5.05	1.86	4.77	6.14	2.27	5.55	6.75	2.84	6.53	8.15	3.25	7.04	8.64	3.66	7.25	8.49
	Power (kW)	27	0.88	2.16	2.96	0.87	2.31	3.18	0.87	2.35	3.35	0.89	2.55	3.56	0.91	2.70	3.80	0.92	2.91	4.24
		32	0.98	2.38	3.24	0.99	2.54	3.44	0.99	2.59	3.64	0.99	2.81	3.95	1.02	3.00	4.28	1.04	3.25	4.85
		38	1.13	2.70	3.62	1.13	2.86	3.87	1.13	2.89	4.11	1.14	3.14	4.41	1.18	3.35	4.75	1.22	3.62	5.35
		43	1.24	3.03	4.04	1.26	3.19	4.30	1.29	3.24	4.57	1.29	3.50	4.86	1.31	3.66	5.15	1.33	3.91	5.71
ZXV100BE	Capacity (kW)	27	3.37	6.29	8.23	3.97	7.41	9.70	4.31	8.51	11.21	5.07	9.64	12.66	5.71	10.84	14.20	6.48	12.32	16.10
		32	3.23	6.04	7.91	3.81	7.12	9.32	4.07	8.33	10.78	4.88	9.28	12.19	5.51	10.48	13.73	6.29	11.95	15.61
		38	2.99	5.77	7.54	3.54	6.83	8.93	3.84	7.80	10.29	4.57	8.90	11.66	5.19	10.10	13.21	5.96	11.32	14.80
		43	2.77	5.53	7.19	3.29	6.61	8.62	3.67	7.48	9.82	4.27	8.52	11.15	4.87	9.73	12.69	5.64	10.82	14.14
	Power (kW)	27	1.49	2.92	3.94	1.59	3.11	4.19	1.64	3.27	4.44	1.76	3.55	4.81	1.86	3.76	5.10	1.95	3.93	5.33
		32	1.61	3.17	4.26	1.70	3.33	4.49	1.75	3.55	4.82	1.90	3.83	5.21	2.03	4.08	5.54	2.12	4.28	5.82
		38	1.75	3.50	4.71	1.87	3.67	4.97	1.98	3.92	5.32	2.08	4.20	5.72	2.22	4.46	6.07	2.32	4.68	6.35
		43	1.93	3.82	5.15	2.05	4.03	5.45	2.10	4.27	5.80	2.23	4.54	6.17	2.35	4.78	6.50	2.45	4.97	6.75
ZXV110BE	Capacity (kW)	27	3.37	6.78	8.71	3.97	7.98	10.26	4.31	9.21	11.81	5.07	10.40	13.39	5.71	11.70	15.00	6.48	13.29	16.97
		32	3.23	6.51	8.37	3.81	7.67	9.86	4.07	8.95	11.35	4.88	10.02	12.90	5.51	11.31	14.49	6.29	12.89	16.45
		38	2.99	6.24	7.91	3.54	7.37	9.40	3.84	8.46	10.80	4.57	9.62	12.26	5.19	10.92	13.86	5.96	12.22	15.60
		43	2.77	5.98	7.48	3.29	7.16	8.97	3.67	8.11	10.26	4.27	9.23	11.65	4.87	10.53	13.23	5.64	11.69	14.86
	Power (kW)	27	1.49	3.16	4.25	1.59	3.36	4.52	1.64	3.54	4.81	1.76	3.84	5.19	1.86	4.07	5.49	1.95	4.26	5.75
		32	1.61	3.44	4.57	1.70	3.60	4.84	1.75	3.86	5.20	1.90	4.16	5.61	2.03	4.43	5.97	2.12	4.64	6.27
		38	1.75	3.79	5.05	1.87	3.97	5.37	1.98	4.24	5.75	2.08	4.56	6.18	2.22	4.84	6.55	2.32	5.07	6.84
		43	1.93	4.14	5.53	2.05	4.36	5.87	2.10	4.63	6.25	2.23	4.92	6.64	2.35	5.18	7.00	2.45	5.39	7.26
ZXV130BE	Capacity (kW)	27	3.37	7.75	10.16	3.97	9.13	11.97	4.31	10.60	13.62	5.07	11.92	15.61	5.71	13.41	17.39	6.48	15.24	19.57
		32	3.23	7.45	9.76	3.81	8.77	11.49	4.07	10.00	13.08	4.88	11.49	15.02	5.51	12.96	16.78	6.29	14.77	18.97
		38	2.99	7.16	9.03	3.54	8.47	10.79	3.84	9.79	12.32	4.57	11.06	14.07	5.19	12.56	15.80	5.96	14.00	17.98
		43	2.77	6.90	8.36	3.29	8.27	10.01	3.67	9.38	11.59	4.27	10.65	13.16	4.87	12.15	14.86	5.64	13.42	17.02
	Power (kW)	27	1.49	3.64	5.16	1.59	3.87	5.50	1.64	4.08	5.90	1.76	4.44	6.30	1.86	4.70	6.68	1.95	4.92	6.99
		32	1.61	3.96	5.48	1.70	4.14	5.89	1.75	4.35	6.35	1.90	4.80	6.82	2.03	5.11	7.26	2.12	5.36	7.63
		38	1.75	4.37	6.06	1.87	4.57	6.56	1.98	4.89	7.05	2.08	5.26	7.55	2.22	5.58	8.01	2.32	5.85	8.32
		43	1.93	4.77	6.66	2.05	5.02	7.14	2.10	5.35	7.60	2.23	5.69	8.08	2.35	5.99	8.52	2.45	6.23	8.79

Performance data - R448A/R449A

Model ZXV		Ambient temperature (°C)	Evaporating temperature (°C)																	
			-20			-15			-10			-5			0			5		
			Min	Nor	Max	Min	Nor	Max	Min	Nor	Max	Min	Nor	Max	Min	Nor	Max	Min	Nor	Max
ZXV05BE	Capacity (kW)	27	1.56	3.65	4.86	1.96	4.37	5.86	2.46	5.06	6.94	3.04	5.73	8.07	3.61	6.61	9.16	4.45	7.49	9.56
		32	1.44	3.31	4.55	1.87	4.06	5.51	2.35	4.73	6.65	2.94	5.43	7.75	3.48	6.31	8.75	4.31	7.09	9.17
		38	1.35	3.13	4.30	1.74	3.82	5.23	2.20	4.48	6.12	2.77	5.18	7.29	3.34	5.94	8.24	4.11	6.75	8.61
		43	1.24	2.85	3.86	1.64	3.58	4.74	2.07	4.22	5.64	2.64	4.91	6.77	3.19	5.59	7.76	3.84	6.36	8.07
	Power (kW)	27	0.90	1.63	2.37	0.90	1.69	2.42	0.90	1.76	2.50	0.92	1.82	2.65	0.92	1.94	2.80	0.92	2.07	2.92
		32	1.00	1.82	2.60	1.02	1.88	2.67	1.02	1.96	2.77	1.02	2.05	2.94	1.03	2.14	3.15	1.04	2.28	3.34
		38	1.15	2.04	2.90	1.16	2.12	2.95	1.17	2.21	3.08	1.17	2.29	3.29	1.19	2.41	3.50	1.20	2.54	3.68
		43	1.26	2.29	3.21	1.30	2.36	3.27	1.32	2.48	3.42	1.32	2.55	3.66	1.32	2.64	3.88	1.33	2.74	4.02
ZXV065BE	Capacity (kW)	27	1.56	4.19	5.29	1.96	5.02	6.37	2.46	6.02	7.89	3.04	6.97	9.17	3.61	8.15	10.41	4.45	9.22	11.07
		32	1.44	3.97	5.06	1.87	4.87	6.13	2.35	5.75	7.56	2.94	6.73	8.81	3.48	7.87	9.95	4.31	8.90	10.52
		38	1.35	3.74	4.89	1.74	4.57	5.94	2.20	5.48	7.24	2.77	6.40	8.29	3.34	7.33	9.36	4.11	8.30	9.78
		43	1.24	3.49	4.60	1.64	4.39	5.65	2.07	5.16	6.68	2.64	6.07	7.70	3.19	6.90	8.81	3.84	7.83	9.17
	Power (kW)	27	0.90	2.14	3.14	0.90	2.19	3.22	0.90	2.22	3.28	0.92	2.35	3.45	0.92	2.50	3.56	0.92	2.67	3.77
		32	1.00	2.36	3.44	1.02	2.41	3.54	1.02	2.48	3.64	1.02	2.57	3.82	1.03	2.76	4.01	1.04	2.94	4.32
		38	1.15	2.70	3.89	1.16	2.77	3.99	1.17	2.85	4.03	1.17	2.95	4.27	1.19	3.12	4.47	1.20	3.27	4.76
		43	1.26	3.00	4.28	1.30	3.13	4.34	1.32	3.21	4.48	1.32	3.29	4.76	1.32	3.40	5.00	1.33	3.54	5.18
ZXV085BE	Capacity (kW)	27	1.97	5.43	6.70	2.49	6.50	8.07	3.12	7.73	9.99	3.85	9.01	11.90	4.57	10.54	13.18	5.63	11.89	14.02
		32	1.81	5.11	6.41	2.38	6.29	7.76	2.98	7.40	9.74	3.71	8.69	11.43	4.42	10.17	12.60	5.45	11.51	13.33
		38	1.71	4.85	6.19	2.21	5.92	7.53	2.78	7.02	9.28	3.51	8.28	10.93	4.23	9.48	11.87	5.20	10.72	12.39
		43	1.57	4.53	5.95	2.07	5.62	7.31	2.63	6.61	8.76	3.35	7.86	10.32	4.04	8.92	11.27	4.87	10.11	11.83
	Power (kW)	27	1.14	2.80	4.23	1.13	2.86	4.34	1.14	2.91	4.52	1.16	3.06	4.65	1.16	3.27	4.80	1.17	3.48	5.08
		32	1.26	3.07	4.64	1.29	3.15	4.77	1.30	3.25	5.00	1.30	3.37	5.15	1.30	3.60	5.41	1.32	3.83	5.81
		38	1.46	3.53	5.24	1.47	3.63	5.48	1.48	3.72	5.71	1.49	3.85	5.75	1.52	4.06	6.02	1.52	4.28	6.41
		43	1.60	3.92	5.77	1.65	4.09	5.96	1.67	4.19	6.32	1.67	4.30	6.42	1.68	4.45	6.73	1.68	4.61	6.99
ZXV100BE	Capacity (kW)	27	3.03	5.60	7.66	3.57	6.82	9.11	3.92	7.83	10.65	4.87	9.54	12.91	5.59	11.06	15.20	6.48	12.94	17.71
		32	2.90	5.44	7.36	3.43	6.69	8.76	3.70	7.66	10.34	4.69	9.38	12.68	5.40	10.90	14.83	6.29	12.66	17.49
		38	2.70	5.25	7.01	3.18	6.48	8.40	3.49	7.18	9.98	4.44	9.16	12.24	5.13	10.71	14.40	6.02	12.23	16.87
		43	2.50	5.08	6.69	2.96	6.34	8.10	3.34	6.88	9.73	4.14	8.86	11.82	4.83	10.41	13.96	5.69	11.91	16.26
	Power (kW)	27	1.39	2.78	3.74	1.49	2.98	4.11	1.61	3.04	4.35	1.72	3.30	4.62	1.75	3.45	4.74	1.76	3.58	4.80
		32	1.49	3.02	4.14	1.60	3.19	4.40	1.70	3.30	4.73	1.86	3.60	5.05	1.91	3.76	5.15	1.91	3.85	5.23
		38	1.66	3.32	4.61	1.80	3.52	4.87	1.94	3.65	5.22	2.06	3.99	5.55	2.11	4.15	5.70	2.09	4.21	5.71
		43	1.84	3.63	5.10	1.96	3.87	5.34	2.08	3.97	5.69	2.21	4.35	6.04	2.23	4.44	6.11	2.20	4.47	6.07
ZXV110BE	Capacity (kW)	27	3.03	6.03	8.10	3.57	7.34	9.65	3.92	8.47	11.22	4.87	10.30	13.66	5.59	11.93	16.05	6.48	13.96	18.67
		32	2.90	5.86	7.79	3.43	7.21	9.27	3.70	8.23	10.90	4.69	10.12	13.42	5.40	11.76	15.65	6.29	13.66	18.42
		38	2.70	5.68	7.36	3.18	7.00	8.83	3.49	7.87	10.47	4.44	9.91	12.88	5.13	11.57	15.10	6.02	13.19	17.78
		43	2.50	5.51	6.96	2.96	6.87	8.43	3.34	7.54	10.16	4.14	9.60	12.35	4.83	11.27	14.56	5.69	12.86	17.09
	Power (kW)	27	1.34	3.00	4.03	1.49	3.23	4.43	1.55	3.29	4.71	1.72	3.58	4.98	1.75	3.74	5.11	1.76	3.88	5.17
		32	1.45	3.26	4.43	1.60	3.45	4.74	1.65	3.59	5.10	1.86	3.91	5.44	1.91	4.07	5.55	1.91	4.18	5.64
		38	1.61	3.60	4.95	1.76	3.81	5.26	1.86	3.99	5.64	2.06	4.33	5.99	2.11	4.50	6.16	2.09	4.56	6.16
		43	1.82	3.93	5.47	1.94	4.19	5.75	1.98	4.35	6.13	2.21	4.72	6.51	2.23	4.82	6.58	2.20	4.85	6.53
ZXV130BE	Capacity (kW)	27	3.03	6.90	9.45	3.57	8.40	11.25	4.05	9.86	12.94	4.87	11.80	15.92	5.59	13.68	18.61	6.48	16.00	21.52
		32	2.90	6.70	9.08	3.43	8.25	10.80	3.79	9.30	12.56	4.69	11.60	15.62	5.40	13.48	18.13	6.29	15.66	21.24
		38	2.70	6.52	8.40	3.18	8.05	10.14	3.53	9.20	11.95	4.44	11.39	14.77	5.13	13.31	17.22	6.02	15.13	20.50
		43	2.50	6.35	7.77	2.96	7.94	9.41	3.37	8.91	11.47	4.14	11.08	13.95	4.83	13.00	16.34	5.69	14.76	19.57
	Power (kW)	27	1.37	3.46	5.21	1.48	3.71	5.50	1.56	3.79	5.78	1.67	4.13	6.05	1.72	4.32	6.22	1.76	4.48	6.29
		32	1.48	3.76	5.53	1.58	3.97	5.89	1.68	4.05	6.22	1.81	4.51	6.55	1.87	4.70	6.82	1.91	4.83	7.02
		38	1.61	4.15	6.12	1.74	4.39	6.56	1.92	4.60	6.91	2.00	4.95	7.25	2.06	5.19	7.61	2.09	5.27	7.74
		43	1.82	4.53	6.66	1.94	4.82	7.14	2.04	5.09	7.45	2.14	5.40	7.75	2.19	5.57	8.09	2.20	5.61	8.27

Performance data - R404A/R507A

Model ZXV		Ambient temperature (°C)	Evaporating temperature (°C)																										
			-40			-35			-30			-25			-20			-15			-10			-5			0		
			Min	Nor	Max	Min	Nor	Max	Min	Nor	Max	Min	Nor	Max	Min	Nor	Max	Min	Nor	Max	Min	Nor	Max	Min	Nor	Max	Min	Nor	Max
ZXLV025BE	Capacity (kW)	27	0.79	1.66	1.91	0.94	2.11	2.63	1.21	2.48	3.25	1.45	2.84	3.84	1.75	3.30	4.56	2.17	3.86	5.25	2.62	4.58	6.10	3.10	5.30	6.97	3.65	5.89	7.35
		32	0.73	1.58	1.82	0.92	2.02	2.51	1.15	2.37	3.11	1.39	2.74	3.69	1.62	3.12	4.35	2.07	3.74	5.07	2.50	4.39	5.84	2.99	5.11	6.69	3.52	5.68	7.10
		38	0.71	1.50	1.74	0.87	1.95	2.41	1.10	2.30	3.03	1.36	2.63	3.54	1.52	2.95	4.07	1.88	3.52	4.72	2.34	4.18	5.55	2.89	4.87	6.40	3.38	5.30	6.75
		43	0.66	1.44	1.66	0.84	1.86	2.28	1.06	2.20	2.85	1.29	2.48	3.35	1.40	2.79	3.87	1.80	3.33	4.47	2.21	3.98	5.17	2.76	4.62	6.04	3.16	4.99	6.41
	Power (kW)	27	0.84	1.50	1.75	0.85	1.60	2.00	0.86	1.73	2.28	0.86	1.77	2.52	0.89	1.87	2.86	0.87	1.95	3.07	0.87	2.05	3.30	0.90	2.21	3.51	0.91	2.34	3.74
		32	0.94	1.72	1.98	0.95	1.78	2.23	0.95	1.87	2.55	0.95	1.94	2.85	0.98	2.03	3.19	0.99	2.15	3.38	1.00	2.26	3.58	1.00	2.45	3.89	1.02	2.60	4.21
		38	1.08	1.92	2.33	1.09	1.98	2.59	1.09	2.15	2.94	1.07	2.24	3.22	1.13	2.34	3.57	1.13	2.42	3.81	1.13	2.51	4.05	1.15	2.73	4.34	1.19	2.90	4.67
		43	1.22	2.16	2.66	1.23	2.24	2.98	1.25	2.41	3.29	1.25	2.54	3.65	1.25	2.63	3.98	1.27	2.70	4.23	1.30	2.82	4.50	1.30	3.04	4.79	1.32	3.18	5.08
ZXLV030BE	Capacity (kW)	27	0.79	1.86	2.50	0.94	2.40	3.16	1.21	2.93	3.87	1.45	3.84	5.02	1.75	4.52	5.77	2.17	5.29	6.65	2.62	6.28	7.98	3.10	7.26	9.11	3.65	8.07	9.80
		32	0.73	1.82	2.38	0.92	2.30	3.01	1.15	2.86	3.70	1.39	3.69	4.82	1.62	4.28	5.51	2.07	5.13	6.42	2.50	6.01	7.63	2.99	7.00	8.75	3.52	7.78	9.46
		38	0.71	1.72	2.27	0.87	2.22	2.89	1.10	2.67	3.61	1.36	3.55	4.63	1.52	4.04	5.15	1.88	4.82	6.17	2.34	5.72	7.25	2.89	6.67	8.37	3.38	7.26	8.82
		43	0.66	1.65	2.17	0.84	2.11	2.74	1.06	2.60	3.39	1.29	3.35	4.38	1.40	3.77	4.90	1.80	4.63	5.96	2.21	5.38	6.55	2.76	6.33	7.90	3.16	6.83	8.38
	Power (kW)	27	0.84	1.79	2.33	0.85	1.90	2.46	0.86	2.00	2.33	0.86	2.05	2.40	0.89	2.17	2.98	0.87	2.32	3.20	0.87	2.37	3.37	0.90	2.56	3.58	0.91	2.71	3.82
		32	0.94	1.99	2.64	0.95	2.05	2.74	0.95	2.19	2.60	0.95	2.29	2.71	0.98	2.39	3.26	0.99	2.56	3.45	1.00	2.61	3.65	1.00	2.83	3.97	1.02	3.01	4.30
		38	1.08	2.28	3.10	1.09	2.36	3.18	1.09	2.53	3.00	1.07	2.59	3.07	1.13	2.71	3.64	1.13	2.88	3.89	1.13	2.91	4.13	1.15	3.16	4.43	1.19	3.36	4.77
		43	1.22	2.63	3.54	1.23	2.67	3.66	1.25	2.83	3.36	1.25	2.94	3.48	1.25	3.04	4.06	1.27	3.21	4.32	1.30	3.26	4.59	1.30	3.52	4.89	1.32	3.68	5.18
ZXLV035BE	Capacity (kW)	27	1.00	2.14	2.71	1.19	2.76	3.42	1.53	3.37	4.24	1.83	4.33	5.41	2.22	5.10	6.57	2.75	5.90	7.58	3.32	7.00	8.75	3.93	8.10	9.98	4.62	8.99	10.74
		32	0.92	2.10	2.58	1.16	2.64	3.26	1.46	3.30	4.06	1.76	4.17	5.19	2.05	4.82	6.28	2.62	5.71	7.32	3.17	6.70	8.36	3.79	7.81	9.59	4.46	8.68	10.36
		38	0.90	1.98	2.46	1.10	2.56	3.14	1.39	3.07	3.96	1.72	4.01	4.98	1.93	4.56	5.88	2.38	5.38	7.04	2.96	6.37	7.95	3.66	7.44	9.17	4.28	8.10	9.66
		43	0.83	1.90	2.35	1.07	2.42	2.97	1.34	3.00	3.72	1.63	3.77	4.72	1.78	4.25	5.59	2.28	5.16	6.80	2.79	6.00	7.54	3.49	7.06	8.66	4.00	7.61	9.18
	Power (kW)	27	1.07	2.05	2.68	1.08	2.17	2.81	1.09	2.29	2.90	1.09	2.34	3.08	1.13	2.49	3.45	1.11	2.65	3.71	1.11	2.70	3.90	1.14	2.93	4.15	1.16	3.10	4.43
		32	1.19	2.28	3.03	1.21	2.34	3.13	1.21	2.50	3.23	1.21	2.62	3.47	1.25	2.73	3.78	1.26	2.92	4.00	1.27	2.98	4.23	1.27	3.23	4.60	1.30	3.44	4.99
		38	1.37	2.61	3.55	1.39	2.70	3.63	1.38	2.89	3.72	1.36	2.96	3.93	1.44	3.10	4.21	1.44	3.29	4.52	1.44	3.33	4.79	1.46	3.61	5.13	1.51	3.84	5.53
		43	1.55	3.01	4.05	1.56	3.05	4.17	1.59	3.23	4.16	1.59	3.36	4.45	1.58	3.47	4.70	1.61	3.67	5.01	1.65	3.73	5.32	1.65	4.02	5.66	1.67	4.21	5.99
ZXLV040BE	Capacity (kW)	27	1.00	2.36	3.17	1.19	3.04	4.00	1.53	3.71	4.90	1.83	4.86	6.36	2.22	5.73	7.30	2.75	6.70	8.42	3.32	7.95	10.11	3.93	9.20	11.54	4.62	10.22	12.42
		32	0.92	2.31	3.02	1.16	2.91	3.81	1.46	3.63	4.69	1.76	4.68	6.11	2.05	5.42	6.98	2.62	6.49	8.13	3.17	7.61	9.67	3.79	8.87	11.09	4.46	9.86	11.98
		38	0.90	2.18	2.88	1.10	2.82	3.67	1.39	3.38	4.58	1.72	4.50	5.86	1.93	5.12	6.53	2.38	6.11	7.82	2.96	7.24	9.19	3.66	8.45	10.60	4.28	9.20	11.17
		43	0.83	2.09	2.75	1.07	2.67	3.47	1.34	3.30	4.30	1.63	4.24	5.55	1.78	4.77	6.21	2.28	5.86	7.55	2.79	6.82	8.29	3.49	8.02	10.01	4.00	8.65	10.61
	Power (kW)	27	1.07	2.34	3.15	1.08	2.48	3.32	1.09	2.62	3.15	1.09	2.67	3.24	1.13	2.84	4.01	1.11	3.03	4.31	1.11	3.09	4.54	1.14	3.35	4.82	1.16	3.54	5.15
		32	1.19	2.60	3.56	1.21	2.67	3.70	1.21	2.86	3.51	1.21	2.99	3.65	1.25	3.12	4.39	1.26	3.34	4.65	1.27	3.40	4.92	1.27	3.69	5.35	1.30	3.93	5.80
		38	1.37	2.98	4.18	1.39	3.08	4.29	1.38	3.30	4.04	1.36	3.38	4.14	1.44	3.54	4.90	1.44	3.76	5.25	1.44	3.80	5.57	1.46	4.12	5.97	1.51	4.39	6.43
		43	1.55	3.44	4.76	1.56	3.49	4.93	1.59	3.69	4.52	1.59	3.84	4.68	1.58	3.97	5.47	1.61	4.19	5.82	1.65	4.26	6.19	1.65	4.59	6.58	1.67	4.81	6.97
ZXLV050BE	Capacity (kW)	27	1.24	3.34	4.53	1.49	4.03	5.42	1.71	4.69	6.24	2.10	5.83	7.48	2.61	7.05	9.30	3.25	8.29	11.03	3.99	9.80	12.93	4.84	11.27	15.01	5.62	12.97	17.10
		32	1.17	3.17	4.22	1.41	3.81	5.12	1.66	4.53	6.03	2.04	5.65	7.24	2.37	6.39	8.34	3.15	8.05	10.60	3.84	9.45	12.43	4.63	10.78	14.48	5.35	12.31	16.38
		38	1.13	3.05	4.01	1.31	3.53	4.74	1.55	4.22	5.61	1.91	5.33	6.81	2.41	6.52	8.42	2.97	7.59	9.89	3.61	8.88	11.68	4.34	10.09	13.66	4.98	11.47	15.37
		43	1.08	2.93	3.85	1.26	3.41	4.44	1.50	4.10	5.28	1.84	5.11	6.34	2.32	6.29	7.79	2.86	7.32	9.24	3.47	8.54	10.89	4.15	9.67	12.69	4.75	10.93	14.33
	Power (kW)	27	1.45	2.91	3.95	1.52	3.10	4.15	1.59	3.33	4.50	1.63	3.57	4.88	1.67	3.77	5.11	1.71	3.94	5.46	1.75	4.03	5.82	1.80	4.29	6.26	1.85	4.49	6.63
		32	1.57	3.15	4.21	1.65	3.37	4.49	1.72	3.65	4.78	1.76	3.89	5.32	1.80	4.11	5.68	1.84	4.30	5.96	1.90	4.41	6.37	1.97	4.71	6.89	2.04	4.96	7.25
		38	1.83	3.67	4.95	1.90	3.87	5.16	1.94	4.13	5.58	1.97	4.36	5.96	2.01	4.57	6.13	2.07	4.77	6.61	2.13	4.89	7.07	2.20	5.23	7.56	2.27	5.51	8.07
		43	2.07	4.16	5.49	2.12	4.34	5.71	2.15	4.57	6.09	2.20	4.77	6.44	2.25	4.96	6.58	2.30	5.16	7.06	2.35	5.26	7.51	2.40	5.62	8.03	2.44	5.91	8.47

Performance data - R448A/R449A

Model ZXV		Ambient temperature (°C)	Evaporating temperature (°C)																										
			-40			-35			-30			-25			-20			-15			-10			-5			0		
			Min	Nor	Max	Min	Nor	Max	Min	Nor	Max	Min	Nor	Max	Min	Nor	Max	Min	Nor	Max	Min	Nor	Max	Min	Nor	Max	Min	Nor	Max
ZXLV025BE	Capacity (kW)	27	0.64	1.16	1.42	0.80	1.52	2.05	0.98	2.05	2.76	1.17	2.56	3.34	1.51	3.10	4.06	1.91	3.75	4.89	2.39	4.40	5.85	2.95	5.09	6.97	3.50	5.71	7.42
		32	0.59	1.11	1.38	0.75	1.46	2.01	0.93	1.98	2.64	1.13	2.49	3.21	1.39	3.00	3.87	1.82	3.56	4.69	2.28	4.21	5.70	2.84	4.91	6.69	3.38	5.51	7.10
		38	0.57	1.06	1.32	0.70	1.41	1.97	0.88	1.88	2.56	1.09	2.39	3.12	1.31	2.89	3.74	1.65	3.41	4.48	2.14	4.05	5.47	2.75	4.72	6.40	3.24	5.30	6.81
		43	0.51	1.00	1.26	0.66	1.34	1.87	0.83	1.82	2.41	1.04	2.31	2.95	1.20	2.76	3.60	1.58	3.27	4.29	2.02	3.90	5.17	2.62	4.53	6.04	3.03	5.09	6.47
	Power (kW)	27	0.86	1.52	1.86	0.87	1.56	2.19	0.86	1.58	2.42	0.88	1.63	2.65	0.91	1.65	2.86	0.90	1.71	3.11	0.90	1.82	3.30	0.93	1.97	3.40	0.92	2.11	3.51
		32	0.96	1.65	2.11	0.97	1.74	2.43	0.95	1.77	2.70	0.97	1.80	2.99	1.00	1.83	3.26	1.02	1.89	3.55	1.03	2.01	3.68	1.03	2.18	3.77	1.03	2.34	3.95
		38	1.10	1.80	2.48	1.11	1.88	2.77	1.09	1.95	3.12	1.09	1.97	3.38	1.15	2.06	3.67	1.16	2.13	4.00	1.17	2.24	4.15	1.18	2.43	4.20	1.20	2.61	4.39
		43	1.24	1.93	2.83	1.25	2.06	3.19	1.25	2.14	3.49	1.28	2.18	3.84	1.28	2.31	4.06	1.31	2.37	4.36	1.35	2.51	4.50	1.34	2.71	4.64	1.33	2.86	4.92
ZXLV030BE	Capacity (kW)	27	0.64	1.62	1.95	0.80	2.09	2.62	0.98	2.67	3.35	1.17	3.23	4.18	1.51	3.84	5.14	1.91	4.76	6.18	2.39	5.90	7.65	2.95	6.97	9.11	3.50	7.67	9.90
		32	0.59	1.55	1.86	0.75	2.01	2.50	0.93	2.56	3.20	1.13	3.10	3.97	1.39	3.65	4.90	1.82	4.51	5.94	2.28	5.65	7.45	2.84	6.72	8.75	3.38	7.39	9.46
		38	0.57	1.48	1.77	0.70	1.89	2.40	0.88	2.46	3.09	1.09	3.03	3.85	1.31	3.51	4.74	1.65	4.34	5.77	2.14	5.38	7.15	2.75	6.40	8.37	3.24	7.04	8.91
		43	0.51	1.44	1.69	0.66	1.81	2.27	0.83	2.37	2.90	1.04	2.93	3.68	1.20	3.36	4.56	1.58	4.17	5.60	2.02	5.06	6.68	2.62	6.08	7.90	3.03	6.63	8.46
	Power (kW)	27	0.86	1.77	2.21	0.87	1.88	2.42	0.86	1.96	2.80	0.88	2.03	2.98	0.91	2.10	3.16	0.90	2.19	3.24	0.90	2.24	3.37	0.93	2.40	3.46	0.92	2.51	3.58
		32	0.96	2.05	2.51	0.97	2.16	2.70	0.95	2.21	3.12	0.97	2.26	3.31	1.00	2.32	3.46	1.02	2.43	3.55	1.03	2.53	3.72	1.03	2.65	3.84	1.03	2.77	4.03
		38	1.10	2.21	2.95	1.11	2.34	3.13	1.09	2.43	3.54	1.09	2.56	3.75	1.15	2.71	3.91	1.16	2.80	4.08	1.17	2.94	4.24	1.18	3.10	4.29	1.20	3.23	4.48
		43	1.24	2.47	3.36	1.25	2.59	3.61	1.25	2.69	3.96	1.28	2.85	4.18	1.28	3.01	4.30	1.31	3.14	4.45	1.35	3.26	4.59	1.34	3.45	4.73	1.33	3.53	4.87
ZXLV035BE	Capacity (kW)	27	0.81	1.86	2.28	0.96	2.29	2.91	1.24	3.00	3.67	1.48	3.70	4.50	1.91	4.49	5.85	2.42	5.42	7.05	3.03	6.58	8.38	3.73	7.77	9.98	4.44	8.72	10.85
		32	0.75	1.80	2.17	0.94	2.19	2.77	1.18	2.88	3.51	1.43	3.56	4.27	1.76	4.24	5.59	2.31	5.14	6.77	2.89	6.29	8.17	3.60	7.49	9.59	4.28	8.42	10.36
		38	0.73	1.70	2.07	0.89	2.13	2.67	1.13	2.76	3.43	1.39	3.42	4.14	1.66	4.10	5.41	2.09	4.95	6.58	2.70	6.05	7.84	3.48	7.21	9.17	4.11	8.10	9.76
		43	0.67	1.61	1.98	0.87	2.01	2.52	1.09	2.67	3.22	1.32	3.30	3.96	1.53	3.95	5.20	2.01	4.74	6.39	2.55	5.88	7.54	3.32	6.92	8.66	3.84	7.76	9.27
	Power (kW)	27	1.09	1.92	2.36	1.10	2.00	2.58	1.09	2.10	2.96	1.11	2.15	3.23	1.15	2.24	3.59	1.14	2.39	3.75	1.15	2.56	3.90	1.17	2.75	4.01	1.17	2.87	4.15
		32	1.21	2.18	2.66	1.23	2.28	2.88	1.21	2.34	3.29	1.23	2.41	3.64	1.28	2.46	4.01	1.30	2.63	4.20	1.31	2.84	4.36	1.31	3.03	4.45	1.31	3.17	4.68
		38	1.40	2.39	3.13	1.42	2.47	3.34	1.38	2.61	3.79	1.39	2.72	4.13	1.47	2.79	4.52	1.48	2.96	4.74	1.49	3.16	4.91	1.50	3.46	4.97	1.53	3.69	5.20
		43	1.58	2.69	3.56	1.59	2.73	3.83	1.59	2.87	4.24	1.62	3.02	4.67	1.61	3.13	4.99	1.66	3.30	5.16	1.71	3.54	5.32	1.70	3.86	5.48	1.69	4.04	5.81
ZXLV040BE	Capacity (kW)	27	0.81	2.01	2.66	0.96	2.58	3.40	1.24	3.38	4.24	1.48	4.15	5.29	1.91	5.16	6.50	2.42	6.23	7.83	3.03	7.55	9.69	3.73	8.92	11.54	4.44	10.22	12.54
		32	0.75	1.96	2.54	0.94	2.47	3.24	1.18	3.27	4.06	1.43	4.00	5.03	1.76	4.96	6.21	2.31	6.04	7.53	2.89	7.38	9.45	3.60	8.60	11.09	4.28	9.86	11.98
		38	0.73	1.87	2.42	0.89	2.40	3.12	1.13	3.11	3.96	1.39	3.85	4.87	1.66	4.71	6.01	2.09	5.87	7.31	2.70	7.02	9.06	3.48	8.20	10.60	4.11	9.55	11.28
		43	0.67	1.83	2.31	0.87	2.30	2.95	1.09	3.00	3.72	1.32	3.71	4.66	1.53	4.53	5.78	2.01	5.72	7.10	2.55	6.62	8.70	3.32	7.78	10.01	3.84	9.08	10.72
	Power (kW)	27	1.09	2.20	2.93	1.10	2.33	3.09	1.09	2.40	3.47	1.11	2.52	3.89	1.15	2.68	4.25	1.14	2.87	4.36	1.15	2.93	4.54	1.17	3.14	4.66	1.17	3.28	4.83
		32	1.21	2.54	3.31	1.23	2.60	3.44	1.21	2.72	3.86	1.23	2.82	4.38	1.28	2.88	4.66	1.30	3.17	4.79	1.31	3.24	5.02	1.31	3.46	5.18	1.31	3.62	5.44
		38	1.40	2.74	3.89	1.42	2.83	3.99	1.38	2.99	4.44	1.39	3.19	4.97	1.47	3.35	5.26	1.48	3.65	5.51	1.49	3.74	5.71	1.50	4.04	5.78	1.53	4.21	6.04
		43	1.58	3.07	4.43	1.59	3.12	4.58	1.59	3.28	4.97	1.62	3.59	5.62	1.61	3.72	5.80	1.66	4.10	5.99	1.71	4.25	6.31	1.70	4.50	6.45	1.69	4.62	6.76
ZXLV050BE	Capacity (kW)	27	1.03	2.94	3.76	1.24	3.55	4.50	1.46	4.12	5.43	1.79	5.13	6.73	2.35	6.28	8.65	2.92	7.63	10.37	3.63	9.31	12.28	4.65	11.15	15.31	5.51	13.22	18.29
		32	0.97	2.79	3.50	1.17	3.35	4.25	1.41	3.99	5.24	1.73	4.97	6.51	2.25	5.88	7.84	2.83	7.57	9.96	3.50	9.16	11.93	4.45	10.89	15.06	5.24	12.80	17.69
		38	0.94	2.71	3.33	1.09	3.14	3.93	1.32	3.76	4.88	1.65	4.74	6.13	2.17	5.94	7.83	2.67	7.21	9.30	3.28	8.80	11.33	4.21	10.39	14.35	4.93	12.15	16.76
		43	0.90	2.61	3.20	1.05	3.03	3.69	1.27	3.65	4.60	1.58	4.55	5.71	2.09	5.78	7.25	2.57	7.03	8.69	3.16	8.54	10.78	4.03	10.06	13.45	4.70	11.69	15.76
	Power (kW)	27	1.49	3.00	4.15	1.57	3.19	4.27	1.59	3.40	4.37	1.63	3.57	4.54	1.54	3.69	4.85	1.57	3.78	5.25	1.66	3.83	5.59	1.76	3.99	5.89	1.80	4.13	6.17
		32	1.62	3.24	4.42	1.70	3.47	4.62	1.72	3.72	4.68	1.76	3.89	5.05	1.66	4.03	5.40	1.71	4.13	5.72	1.82	4.28	6.12	1.93	4.43	6.54	1.98	4.56	6.74
		38	1.88	3.78	5.25	1.96	3.99	5.37	1.96	4.21	5.52	1.99	4.36	5.72	1.85	4.48	6.01	1.95	4.58	6.35	2.04	4.79	6.79	2.18	4.97	7.19	2.23	5.12	7.59
		43	2.13	4.28	5.82	2.18	4.47	5.94	2.17	4.66	6.09	2.22	4.77	6.25	2.12	4.86	6.51	2.19	4.95	6.78	2.28	5.16	7.21	2.38	5.40	7.71	2.41	5.50	7.96

Technical data - medium temperature

FAMILY					ZXV						
MODEL NAME					ZXV055BE	ZXV065BE	ZXV085BE	ZXV100BE	ZXV110BE	ZXV130BE	
EVAP TEMPERATURE RANGE					°C	-20°C ~ 5°C					
AMBIENT RANGE					°C	-25°C ~ 48°C					
UNIT	PERFORMANCE	R404A / R507A	Maximum Capacity	-10°C ET/40°C AT/18°C RGT	kW	6.31	6.50	8.50	10.00	11.00	13.00
			Nominal Capacity	-10°C ET/32°C AT/18°C RGT	kW	5.18	6.10	7.90	8.33	8.95	10.00
			Nonimal Power		kW	2.11	2.50	3.41	3.55	3.86	4.39
			Nominal COP		W/W	2.46	2.44	2.32	2.34	2.32	2.28
			Nominal Speed		RPM	3600	4500	4500	3600	3900	4500
		R448A / R449A	Maximum Capacity	-10°C ET/40°C AT/18°C RGT	kW	5.93	7.02	9.07	9.40	10.00	11.57
			Nominal Capacity	-10°C ET/32°C AT/18°C RGT	kW	4.73	5.75	7.40	7.64	8.22	9.31
			Nonimal Power		kW	1.96	2.48	3.25	3.30	3.59	3.97
			Nominal COP		W/W	2.41	2.32	2.28	2.31	2.29	2.34
			Nominal Speed		RPM	3600	4500	4500	3600	3900	4500
	MOC (Max. Operating Current)	4XD/4XK			Amp	12.2	12.2	12.8	17.7	17.7	17.7
		5XJ			Amp	19.8	19.8	20.4	26.4	26.4	26.4
	SOUND	Sound Pressure Level @ 1m 1		At Part Load	dB(A)	52-56	52-58	52-58	55-57	55-58	55-59
		Sound Pressure Level @ 1m 1		At Full Load	dB(A)	60	61	61	62	62	63
COMPRESSOR	Oil Type				POE	POE	POE	POE	POE	POE	
	Oil Charge Volume				Liters	1.63	1.63	1.63	1.60	1.60	
	Speed Range				RPM	1800 - 4800	1800 - 6000	1800 - 6000	1800 - 4800	1800 - 5100	1800 - 6000
FAN MOTOR	4XD	Number of Fan				1	1	1	2	2	2
		Diameter			mm	450	450	450	450	450	450
		Max Speed			RPM	830	830	830	830	830	830
		Max Flow			m³/h	2922	2922	2922	5910	5910	5910
		Max Fan Motor Power			W	116	116	116	246	246	246
	4XK/5XJ	Number of Fan				1	1	1	2	2	2
		Diameter			mm	450	450	450	450	450	450
		Max Speed			RPM	933	933	933	933	933	933
		Max Flow			m³/h	3483	3483	3483	6966	6966	6966
		Max Fan Motor Power			W	145	145	145	290	290	290
	OTHERS	Oil Separator			Liters	0.5	0.5	0.5	0.5	0.5	0.5
Receiver Volumn			kg	4.3	4.3	4.3	6.3	6.3	6.3		
Pipes		Suction OD		Inch	3/4	3/4	3/4	7/8	7/8	7/8	
		Liquid OD		Inch	1/2	1/2	1/2	1/2	1/2	1/2	
Dimension		W x H x D	mm	1029 x 424 x 840	1029 x 424 x 840	1029 x 424 x 840	1029 x 424 x 1242	1029 x 424 x 1242	1029 x 424 x 1242		
Weight		Net		kg	101	101	104	136	136	136	
		Gross		kg	139	139	139	180	180	180	

Technical data - low temperature

FAMILY					ZXLV					
MODEL NAME					ZXLV025BE	ZXLV030BE	ZXLV035BE	ZXLV040BE	ZXLV050BE	
EVAP TEMPERATURE RANGE					°C	-40°C ~ 0°C				
AMBIENT RANGE					°C	-25°C ~ 48°C				
UNIT	PERFORMANCE	R404A / R607A	Maximum Capacity	-10°C ET/40°C AT/18°C RGT	kW	2.72	3.20	3.55	4.10	5.20
			Nominal Capacity	-10°C ET/32°C AT/18°C RGT	kW	2.23	2.64	3.03	3.34	4.09
			Nonimal Power		kW	1.84	2.13	2.44	2.78	3.47
			Nominal COP		W/W	1.21	1.24	1.24	1.20	1.18
			Nominal Speed		RPM	3600	4500	3900	4500	4500
		R448A / R449A	Maximum Capacity	-10°C ET/40°C AT/18°C RGT	kW	2.27	2.74	3.02	3.54	4.52
			Nominal Capacity	-10°C ET/32°C AT/18°C RGT	kW	1.77	2.34	2.61	2.95	3.71
			Nonimal Power		kW	1.76	2.19	2.32	2.68	3.63
			Nominal COP		W/W	1.01	1.07	1.13	1.10	1.02
			Nominal Speed		RPM	3600	4500	3900	4500	4500
	MOC (Max. Operating Current)	4XD/4XK			Amp	12.2	12.2	12.8	12.8	17.7
		5XJ			Amp	19.8	19.8	20.4	20.4	26.4
	SOUND	Sound Pressure Level @ 1m 1		At Part Load	dB(A)	52-56	52-58	52-56	52-58	55-59
		Sound Pressure Level @ 1m 1		At Full Load	dB(A)	60	61	60	61	63
COMPRESSOR	Oil Type					POE	POE	POE	POE	POE
	Oil Charge Volume				Liters	1.63	1.63	1.63	1.63	1.60
	Speed Range				RPM	1800 - 4800	1800 - 6000	1800 - 5100	1800 - 6000	1800 - 6000
FAN MOTOR	4XD	Number of Fan				1	1	1	1	2
		Diameter			mm	450	450	450	450	450
		Max Speed			RPM	830	830	830	830	830
		Max Flow			m³/h	2922	2922	2922	2922	5910
		Max Fan Motor Power			W	116	116	116	116	246
	4XK/5XJ	Number of Fan				1	1	1	1	2
		Diameter			mm	450	450	450	450	450
		Max Speed			RPM	933	933	933	933	933
		Max Flow			m³/h	3483	3483	3483	3483	6966
		Max Fan Motor Power			W	145	145	145	145	290
OTHERS	Oil Sperator			Liters	0.5	0.5	0.5	0.5	0.5	
	Receiver Volumn			kg	4.3	4.3	4.3	4.3	6.3	
	Pipes	Suction OD		Inch	3/4	3/4	3/4	3/4	7/8	
		Liquid OD		Inch	1/2	1/2	1/2	1/2	1/2	
	Dimension		W X H X D	mm	1029 x 424 x 840	1029 x 424 x 840	1029 x 424 x 840	1029 x 424 x 840	1029 x 424 x 1242	
	Weight	Net		kg	101	101	101	104	136	
		Gross		ka	139	139	139	139	180	

General information

Technical data are correct at the time of printing. Updates may occur, and should you need confirmation of a specific value, please contact Copeland clearly stating the information required.

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