

CZBD Microchannel Series

Powered by Copeland Digital Scroll



- Microchannel condenser
- Generous low noise level condensers
- X-web communication feature
- Reliable and efficient Copeland ZB digital scroll compressors
- Fully wired in a waterproof powder coated enclosure
- Better energy efficiency

CZBD Microchannel Series

- Microchannel condenser heat exchanger

- Easy access front door design

- Additional oil pre-charged

- Compressor sound jacket
- Sound insulation casing

- Phase protection
- Discharge gas overheat protection
- Hi/Low pressure protection
- Compressor minimum off time control
- X-web communication

- Galvanized steel casing with powder coating
-High corrosion resistance
- Stainless steel casing SUS304 (optional)

- Copeland digital scroll compressor

- Easy access liquid sight glass with moisture indicator

Microchannel Benefits

- Improve heat transfer efficiency.
- Low weight
- Low refrigerant charge
- Easy cleaning
- No risk of galvanic corrosion

R404A

MEDIUM TEMP

3.0 7.5 HP

Model	Amb. (°C)	Capacity (kW)						Power Input (kW)					
		Evaporating Temperature (°C)						Evaporating Temperature (°C)					
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
CZBD300-2M	32	4.07	4.92	5.90	7.03	8.29	9.70	1.91	1.98	2.04	2.10	2.15	2.19
	38	3.72	4.53	5.46	6.50	7.65	8.90	2.12	2.21	2.29	2.36	2.42	2.47
	43	3.43	4.21	5.07	6.02	7.07	8.20	2.33	2.43	2.52	2.60	2.66	2.72
CZBD399-2M	32	5.56	6.70	7.99	9.45	11.10	12.94	2.56	2.68	2.77	2.85	2.94	3.04
	38	5.07	6.11	7.28	8.60	10.09	11.75	2.86	3.00	3.11	3.20	3.30	3.41
	43	4.65	5.59	6.64	7.85	9.19	10.72	3.18	3.34	3.47	3.57	3.67	3.77
CZBD400-2M	32	5.65	6.83	8.19	9.72	11.46	13.42	2.63	2.72	2.80	2.87	2.94	3.03
	38	5.18	6.25	7.47	8.87	10.45	12.24	2.91	3.03	3.13	3.20	3.28	3.37
	43	4.76	5.73	6.85	8.12	9.57	11.20	3.21	3.36	3.46	3.55	3.62	3.71
CZBD500-2M	32	6.93	8.38	10.02	11.89	13.97	16.27	3.37	3.55	3.72	3.88	4.04	4.18
	38	6.38	7.69	9.19	10.89	12.79	14.89	3.70	3.89	4.08	4.26	4.43	4.59
	43	5.90	7.10	8.48	10.01	11.74	13.67	4.01	4.21	4.41	4.61	4.79	4.96
CZBD600-2M	32	8.18	9.85	11.77	13.93	16.32	18.98	4.02	4.24	4.45	4.66	4.87	5.05
	38	7.50	9.05	10.77	12.73	14.92	17.32	4.41	4.65	4.89	5.12	5.34	5.55
	43	6.94	8.34	9.92	11.70	13.68	15.87	4.78	5.03	5.29	5.53	5.77	6.00
CZBD750-2M	32	9.13	10.99	13.12	15.49	18.15	21.03	4.43	4.68	4.92	5.16	5.39	5.62
	38	8.38	10.08	12.01	14.16	16.56	19.18	4.86	5.13	5.40	5.67	5.92	6.17
	43	7.74	9.28	11.03	12.99	15.15	17.52	5.28	5.56	5.84	6.12	6.39	6.66

Note: The rating condition is based on a suction return gas 20°C, Subcool with the limits of the condensing unit.



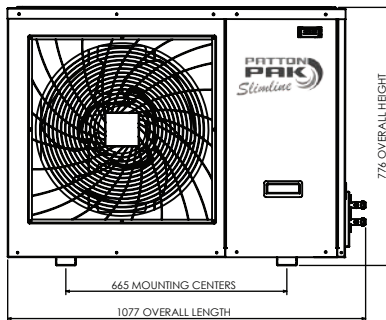
TECHNICAL DATA

MODEL NAME		CZBD300-2M	CZBD399-2M	CZBD400-2M	CZBD500-2M	CZBD600-2M	CZBD750-2M
Compressor	MODEL	ZBD21KQE-TFD-558	ZBD29KQE-TFD-558	ZBD29KQE-TFD-558	ZBD38KQE-TFD-558	ZBD45KQE-TFD-558	ZBD48KQE-TFD-558
	Rated Input Voltage	AC 380-420V/3PH/50Hz					
	RLA Amps	4.6	5.56	5.56	7.36	8.6	10.15
	MCC Amps	6.7	7.9	7.9	11.3	11.4	14.0
	LRA Amps	40	48	48	64	74	100
	Oil Type	POE(32cSt)					
	Oil Precharge (L)	0.6					
Condenser	Oil Quantity (L)	1.24	1.36	1.36	1.89	1.89	1.89
	Air Flow (m ³ /h)	5700	6400	9100	9100	9100	9100
	Fan Motor(1)	1x20"	1x20"	2x18"	2x18"	2x18"	2x18"
	Total Fan Power (W)	118	118	236	236	236	236
	Reciever (L)	4.7	7.9	7.9	7.9	7.9	7.9
	Suction Tube Size	3/4"	7/8"	7/8"	7/8"	7/8"	7/8"
	Liquid Tube Size	3/8"	1/2"	1/2"	1/2"	1/2"	1/2"
Weight (kg)		77	81	84	111	113	116

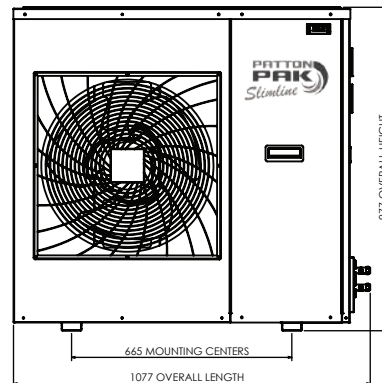
Note : 1. All Fan 220-240V/1PH/50Hz (5 uf Capacitor)

DIMENSION

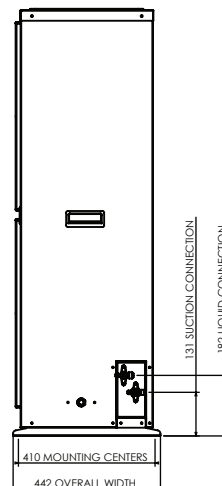
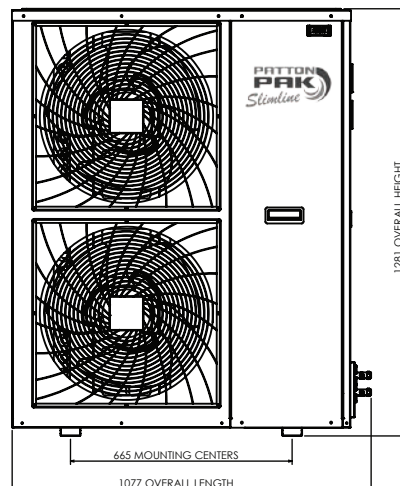
CZBD300-2M



CZBD399-2M



CZBD400-2M
CZBD500-2M
CZBD600-2M
CZBD750-2M



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