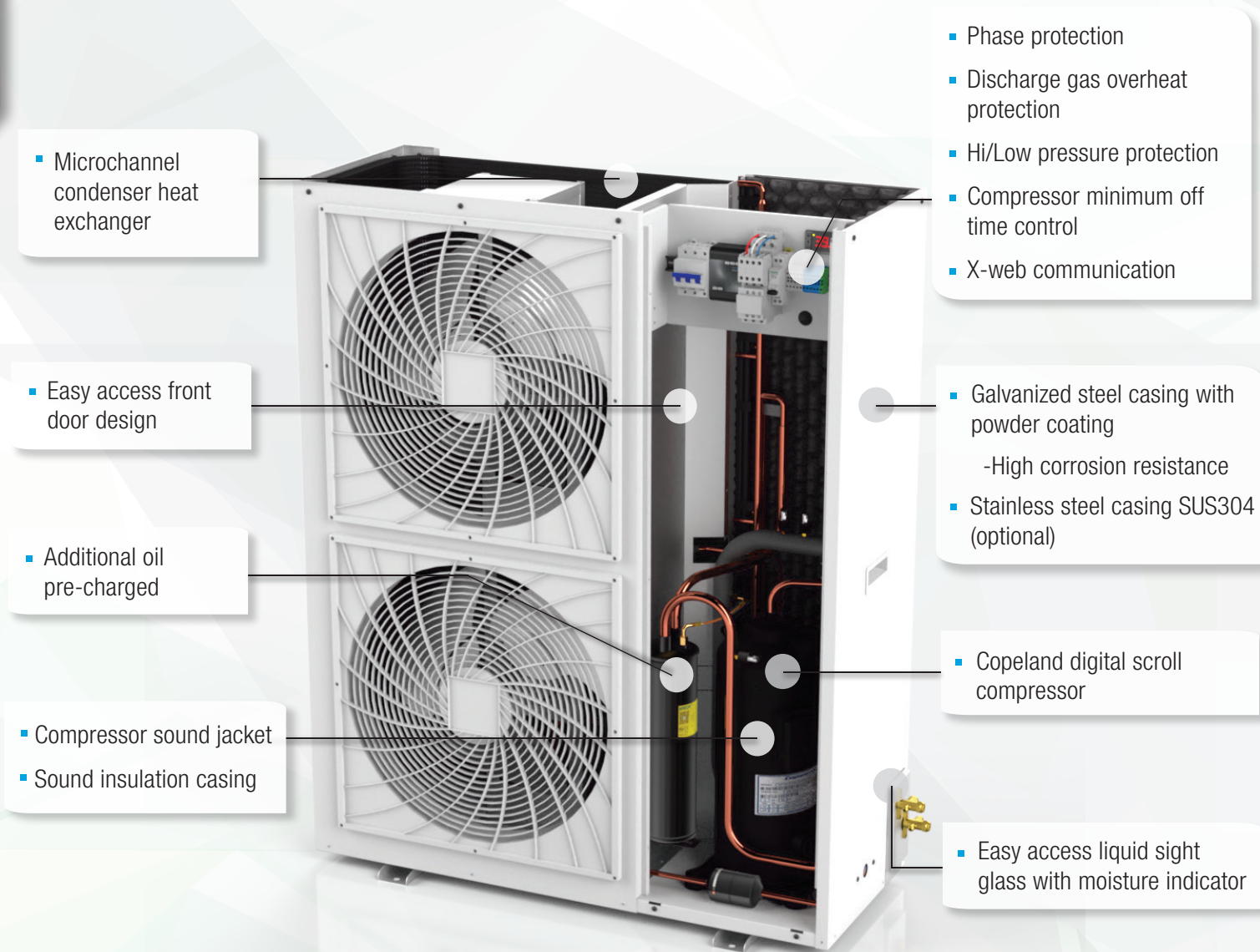


CZBD Microchannel Series

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



Microchannel Benefits

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

R404A

3.0 7.5 HP

MEDIUM TEMP

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
CZBDM300	32	3.82	4.61	5.51	6.49	7.55	8.67	2.18	2.29	2.39	2.50	2.60	2.70
	38	3.49	4.25	5.08	5.97	6.90	7.86	2.42	2.54	2.67	2.78	2.90	3.00
	43	3.19	3.91	4.66	5.46	6.28	7.13	2.64	2.78	2.92	3.05	3.16	3.26
CZBDM399	32	5.41	6.50	7.71	9.07	10.59	12.27	2.77	2.90	3.03	3.13	3.25	3.38
	38	4.94	5.92	7.02	8.24	9.63	11.15	3.09	3.26	3.40	3.53	3.65	3.79
	43	4.53	5.41	6.40	7.52	8.77	10.15	3.43	3.63	3.79	3.93	4.07	4.21
CZBDM400	32	5.54	6.68	7.96	9.43	11.06	12.89	2.93	3.04	3.14	3.22	3.32	3.43
	38	5.08	6.11	7.28	8.60	10.09	11.78	3.23	3.37	3.49	3.59	3.69	3.79
	43	4.67	5.61	6.67	7.88	9.25	10.79	3.55	3.72	3.85	3.96	4.06	4.17
CZBDM500	32	6.77	8.15	9.71	11.47	13.41	15.53	3.70	3.90	4.10	4.29	4.48	4.67
	38	6.24	7.50	8.92	10.51	12.27	14.20	4.04	4.25	4.47	4.68	4.89	5.09
	43	5.78	6.92	8.22	9.65	11.25	13.02	4.36	4.59	4.81	5.04	5.26	5.48
CZBDM600	32	8.02	9.65	11.50	13.56	15.85	18.33	4.34	4.58	4.82	5.06	5.29	5.52
	38	7.39	8.87	10.55	12.41	14.48	16.76	4.75	5.00	5.26	5.53	5.78	6.02
	43	6.85	8.19	9.72	11.41	13.30	15.35	5.14	5.41	5.67	5.95	6.22	6.49
CZBDM750	32	8.95	10.75	12.77	15.03	17.54	20.24	4.77	5.04	5.32	5.60	5.87	6.14
	38	8.23	9.87	11.70	13.75	16.02	18.46	5.22	5.51	5.81	6.11	6.40	6.70
	43	7.63	9.10	10.77	12.61	14.67	16.88	5.65	5.96	6.27	6.59	6.89	7.21

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



R407F

3.0 7.5 HP

MEDIUM TEMP

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
CZBDM300	32			5.01	6.06	7.18	8.41			2.43	2.53	2.65	2.76
	38				5.43	6.49	7.64				2.89	3.02	3.15
	43												
CZBDM399	32		6.07	7.39	8.89	10.60	12.58		3.07	3.16	3.27	3.39	3.51
	38			6.77	8.15	9.73	11.59			3.63	3.75	3.87	3.98
	43				7.52	9.00					4.19	4.32	4.45
CZBDM400	32	5.01	6.25	7.64	9.23	11.08	13.22	3.10	3.16	3.23	3.30	3.39	3.47
	38			7.04	8.51	10.22	12.22			3.66	3.74	3.83	3.91
	43			6.49	7.87	9.48	11.36			4.09	4.17	4.25	4.33
CZBDM500	32	6.17	7.55	9.13	10.92	12.95	15.23	3.40	3.67	3.92	4.16	4.37	4.56
	38		7.07	8.54	10.19	12.06	14.16		3.98	4.28	4.57	4.83	5.07
	43			8.06	9.60	11.33	13.27			4.57	4.90	5.21	5.50
CZBDM600	32	7.13	8.95	10.99	13.24	15.68	18.30	3.99	4.28	4.58	4.90	5.22	5.55
	38		8.05	10.11	12.30	14.61	17.06		4.72	5.05	5.40	5.77	6.14
	43			9.19	11.39	13.65				5.47	5.85	6.26	
CZBDM750	32	7.95	9.97	12.21	14.68	17.35	20.21	4.38	4.71	5.05	5.42	5.79	6.17
	38			11.21	13.63	16.16	18.78			5.58	5.97	6.39	6.83
	43				12.59						6.48		

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



R448A / R449A

3.0 7.5 HP

MEDIUM TEMP

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
CZBDM300	32	3.50	4.32	5.24	6.26	7.40	8.64	2.04	2.19	2.36	2.54	2.74	2.96
	38	3.25	4.02	4.87	5.81	6.86	8.01	2.28	2.45	2.63	2.82	3.03	3.26
	43	3.03	3.75	4.54	5.42	6.39	7.46	2.52	2.70	2.90	3.10	3.31	3.55
CZBDM399	32	4.91	5.98	7.20	8.59	10.14	11.87	2.52	2.70	2.86	3.00	3.16	3.32
	38	4.56	5.55	6.68	7.94	9.37	10.96	2.72	2.96	3.17	3.36	3.54	3.72
	43	4.27	5.19	6.23	7.40	8.71	10.19	2.85	3.15	3.41	3.65	3.86	4.07
CZBDM400	32	5.00	6.12	7.41	8.88	10.54	12.40	2.70	2.85	2.97	3.08	3.20	3.33
	38	4.66	5.70	6.89	8.23	9.78	11.50	2.90	3.11	3.28	3.43	3.57	3.72
	43	4.37	5.33	6.44	7.69	9.12	10.73	3.04	3.31	3.54	3.73	3.90	4.06
CZBDM500	32	6.12	7.61	9.30	11.20	13.32	15.70	3.35	3.59	3.82	4.07	4.35	4.65
	38	5.66	7.09	8.68	10.46	12.46	14.67	3.71	3.98	4.24	4.51	4.79	5.10
	43	5.26	6.62	8.13	9.81	11.69	13.78	4.05	4.35	4.64	4.93	5.23	5.54
CZBDM600	32	7.16	8.92	10.90	13.11	15.58	18.32	3.74	4.01	4.29	4.58	4.89	5.23
	38	6.62	8.30	10.16	12.24	14.56	17.13	4.14	4.45	4.76	5.07	5.39	5.74
	43	6.14	7.75	9.51	11.48	13.66	16.09	4.53	4.87	5.21	5.54	5.89	6.25
CZBDM750	32	7.98	9.94	12.10	14.53	17.24	20.24	4.11	4.42	4.73	5.07	5.42	5.82
	38	7.38	9.23	11.26	13.56	16.10	18.87	4.55	4.90	5.26	5.61	5.97	6.39
	43	6.84	8.61	10.54	12.70	15.07	17.69	4.98	5.37	5.75	6.13	6.53	6.94

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



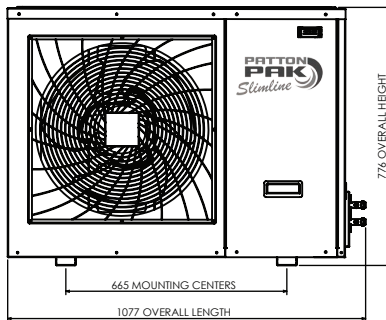
TECHNICAL DATA

MODEL NAME		CZBDM300	CZBDM399	CZBDM400	CZBDM500	CZBDM600	CZBDM750
Compressor	MODEL	ZBD21KQE-TFD	ZBD29KQE-TFD	ZBD29KQE-TFD	ZBD38KQE-TFD	ZBD45KQE-TFD	ZBD48KQE-TFD
	Rated Input Voltage	AC 380-420V/3PH/50Hz					
	RLA Amps	4.3	5.6	5.6	7.5	8.8	10.4
	MCC Amps	5.5	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)	3400	5200	7350	7350	8700	8700
	Fan Motor (1)	1x20"	1x20"	2x18"	2x18"	2x20"	2x20"
	Total Fan Power (W)	236	236	472	472	472	472
	Receiver (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	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Weight (kg)		76	80	82	114	116	119

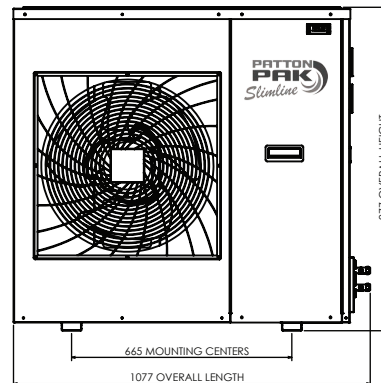
Note : 1. All Fan 220-240V/1PH/50Hz (5 uf Capacitor)

DIMENSION

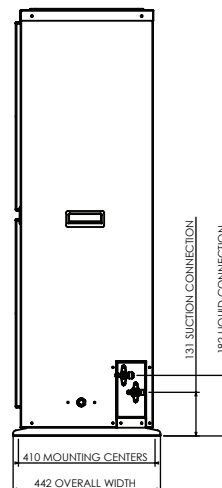
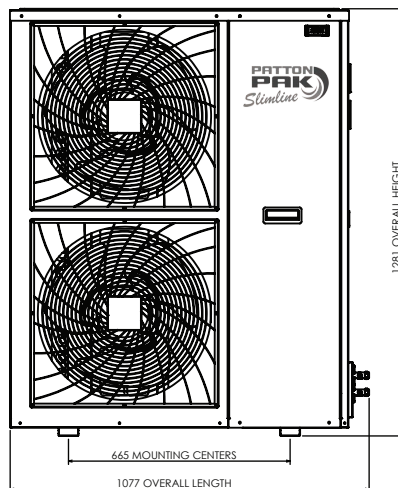
CZBDM300



CZBDM399



CZBDM400
CZBDM500
CZBDM600
CZBDM750



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