



CZBD Microchannel Series

Powered by Copeland Digital Scroll



- Microchannel condenser
- Generous low noise level condensers
- Web monitoring readiness

- Reliable and efficient Copeland ZB digital scroll compressors
- Fully wired in a waterproof powder coated enclosure
- Better energy efficiency



- 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
- Web monitoring readiness
 - 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 refrigerant charge
- No risk of galvanic corrosion

- Low weight
- Easy cleaning





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R404A

3.0 7.5 HP

MEDIUM TEMP													
	Amala	Capacity (kW) Evaporating Temperature (°C)					Power Input (kW)						
Model	Amb. (°C)						Evaporating Temperature (°C)						
	()	-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
	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
CZBDM300	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
	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
CZBDM399	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
	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
CZBDM400	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
	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
CZBDM500	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
	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
CZBDM600	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
	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
CZBDM750	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.







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R407F

3.0 7.5 HP

MEDIUM TEN	ЛP												
		Capacity (kW) Evaporating Temperature (°C)					Power Input (kW)						
Model	Amb.						Evaporating Temperature (°C)						
	(0)	-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
	32			5.01	6.06	7.18	8.41			2.43	2.53	2.65	2.76
CZBDM300	38				5.43	6.49	7.64				2.89	3.02	3.15
	43												
	32		6.07	7.39	8.89	10.60	12.58		3.07	3.16	3.27	3.39	3.51
CZBDM399	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
	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
CZBDM400	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
	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
CZBDM500	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
	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
CZBDM600	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	
	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
CZBDM750	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.







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R448A / R449A

3.0 7.5 HP

MEDIUM TEMP													
		Capacity (kW) Evaporating Temperature (°C)					Power Input (kW)						
Model	Amb. (°C)						Evaporating Temperature (°C)						
	(0)	-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
	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
CZBDM300	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
	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
CZBDM399	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
	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
CZBDM400	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
	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
CZBDM500	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
	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
CZBDM600	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
	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
CZBDM750	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.

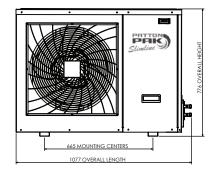


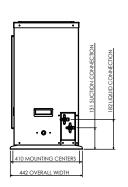


	TEOTIMOAL DATA										
	MODEL NAME	CZBDM300	CZBDM399	CZBDM400	CZBDM500	CZBDM600	CZBDM750				
	MODEL	ZBD21KQE-TFD	ZBD29KQE-TFD	ZBD29KQE-TFD	ZBD38KQE-TFD	ZBD45KQE-TFD	ZBD48KQE-TFD				
	Rated Input Voltage	AC 380-420V/3PH/50Hz									
٥	RLA Amps	4.3	5.6	5.6	7.5	8.8	10.4				
ress	MCC Amps	5.5	7.9	7.9	11.3	11.4	14.0				
Compressor	LRA Amps	40	48	48	64	74	100				
ర	Oil Type			P0E(3	32cSt)						
	Oil Precharge (L)				0.6						
	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				
<u> </u>	Fan Motor	1x20"	1x20"	2x18"	2x18"	2x20"	2x20"				
Condenser	Total Fan Power (W)	236	236	472	472	472	472				
puo	Reciever (L)	4.7	7.9	7.9	7.9	7.9	7.9				
S	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				

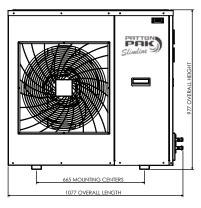
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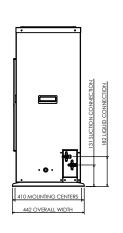
CZBDM300



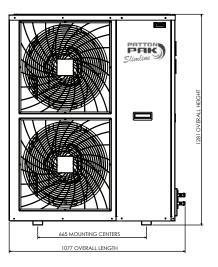


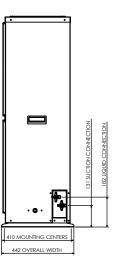
CZBDM399





CZBDM400 CZBDM500 CZBDM600 CZBDM750





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