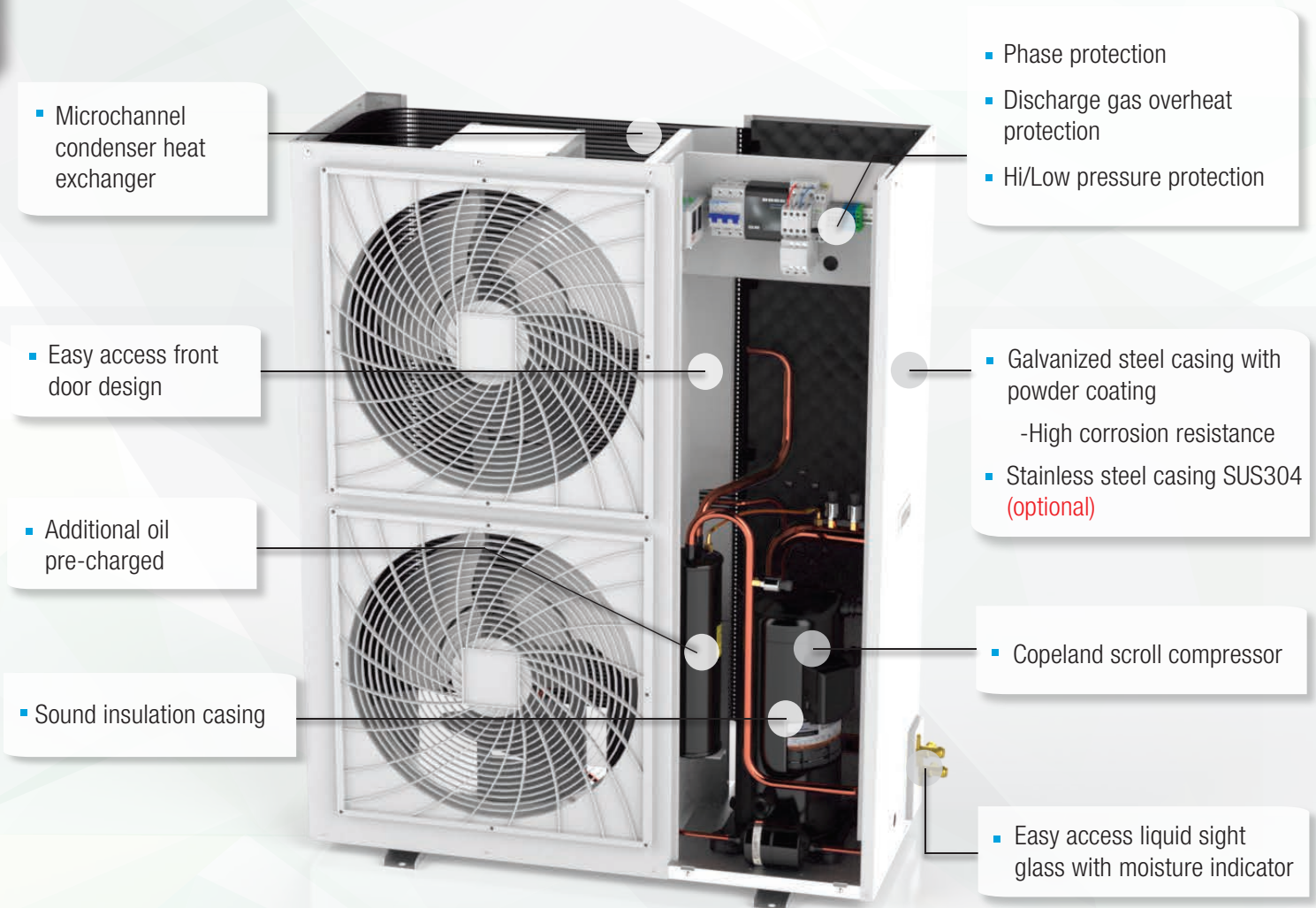


# CZB Microchannel Series

## Powered by Copeland Scroll



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



## Microchannel Benefits

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

## R404A

2.0 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
CZBM200	32	2.62	3.21	3.88	4.61	5.42	6.31	1.79	1.80	1.79	1.79	1.80	1.82
	38	2.31	2.86	3.46	4.13	4.86	5.66	2.08	2.08	2.06	2.05	2.05	2.06
	43	2.02	2.54	3.10	3.71	4.38	5.10	2.40	2.36	2.33	2.31	2.29	2.29
CZBM250	32	3.27	3.95	4.70	5.54	6.47	7.50	2.05	2.09	2.13	2.18	2.23	2.28
	38	2.97	3.58	4.26	5.02	5.87	6.80	2.32	2.36	2.41	2.46	2.51	2.56
	43	2.70	3.26	3.88	4.58	5.35	6.21	2.58	2.63	2.67	2.72	2.76	2.81
CZBM300	32	3.85	4.63	5.49	6.46	7.52	8.66	2.48	2.53	2.60	2.66	2.73	2.81
	38	3.48	4.18	4.97	5.83	6.79	7.84	2.82	2.88	2.94	3.01	3.08	3.15
	43	3.15	3.79	4.51	5.29	6.17	7.12	3.14	3.20	3.26	3.34	3.40	3.48
CZBM350	32	4.40	5.28	6.24	7.31	8.46	9.72	2.94	3.02	3.11	3.20	3.31	3.41
	38	3.96	4.75	5.62	6.57	7.62	8.75	3.35	3.44	3.53	3.62	3.72	3.83
	43	3.58	4.29	5.07	5.93	6.88	7.91	3.74	3.83	3.92	4.02	4.12	4.22
CZBM400	32	4.99	5.96	7.03	8.19	9.45	10.80	3.41	3.52	3.63	3.76	3.89	4.04
	38	4.48	5.35	6.30	7.35	8.48	9.69	3.89	4.00	4.12	4.24	4.38	4.52
	43	4.02	4.81	5.67	6.60	7.62	8.71	4.34	4.46	4.58	4.71	4.84	4.98
CZBM500	32	6.83	8.24	9.85	11.65	13.64	15.87	4.02	4.09	4.16	4.23	4.32	4.40
	38	6.21	7.51	8.96	10.60	12.42	14.44	4.56	4.62	4.70	4.77	4.86	4.93
	43	5.66	6.84	8.19	9.68	11.35	13.22	5.07	5.14	5.21	5.29	5.37	5.44
CZBM600	32	7.99	9.64	11.52	13.61	15.93	18.50	4.49	4.58	4.66	4.75	4.85	4.94
	38	7.26	8.78	10.48	12.38	14.49	16.86	5.11	5.18	5.27	5.36	5.46	5.55
	43	6.63	8.00	9.56	11.32	13.26	15.42	5.67	5.77	5.86	5.93	6.03	6.12
CZBM750	32	8.71	10.51	12.52	14.78	17.27	20.02	4.96	5.05	5.16	5.27	5.39	5.51
	38	7.92	9.54	11.38	13.42	15.71	18.20	5.63	5.74	5.84	5.95	6.06	6.18
	43	7.20	8.69	10.36	12.25	14.32	16.61	6.28	6.38	6.49	6.59	6.71	6.83

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

# R407F

2.0 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
CZBM200	32	2.21	2.82	3.49	4.24	5.05	5.96	1.78	1.80	1.81	1.83	1.86	1.89
	38		2.44	3.09	3.79	4.56	5.40		2.09	2.11	2.13	2.16	2.19
	43			2.69	3.36	4.10	4.88			2.41	2.42	2.44	2.48
CZBM250	32	2.71	3.41	4.18	5.04	6.00	7.07	2.05	2.10	2.17	2.25	2.32	2.39
	38		3.01	3.74	4.57	5.47	6.48		2.39	2.48	2.56	2.65	2.73
	43			3.33	4.11	4.98				2.75	2.85	2.95	
CZBM300	32	3.18	4.01	4.93	5.92	7.00	8.19	2.47	2.56	2.66	2.78	2.90	3.01
	38			4.37	5.30	6.31	7.41			3.03	3.17	3.31	3.44
	43				4.71						3.53		
CZBM350	32	3.58	4.50	5.51	6.62	7.83	9.17	2.94	3.06	3.20	3.36	3.54	3.70
	38			4.84	5.89	7.03				3.64	3.83	4.02	
	43												
CZBM400	32		5.20	6.45	7.81	9.27	10.85		3.34	3.55	3.74	3.95	4.17
	38			5.74	7.02					3.93	4.17		
	43												
CZBM500	32	5.82	7.38	9.13	11.10	13.29	15.75	3.97	4.04	4.12	4.21	4.34	4.48
	38		6.65	8.33	10.22	12.32	14.64		4.60	4.69	4.80	4.93	5.10
	43			7.60	9.41	11.43	13.66			5.24	5.36	5.50	5.67
CZBM600	32	6.87	8.62	10.62	12.91	15.51	18.44	4.44	4.56	4.67	4.80	4.94	5.12
	38		7.91	9.79	11.94	14.35	17.10		5.22	5.35	5.49	5.65	5.83
	43			9.08	11.10	13.39	15.99			6.00	6.16	6.32	6.50
CZBM750	32	7.60	9.77	12.13	14.76	17.65	20.85	5.02	5.28	5.51	5.70	5.90	6.12
	38		8.71	10.99	13.48	16.21	19.19	5.60	5.95	6.24	6.49	6.72	6.96
	43			9.88	12.24	14.85		6.05	6.51	6.88	7.20	7.46	7.73

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



## R448A / R449A

2.0 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
CZBM200	32	2.37	2.99	3.68	4.46	5.33	6.31	1.65	1.66	1.68	1.71	1.75	1.80
	38	2.15	2.73	3.37	4.09	4.90	5.80	1.94	1.94	1.95	1.97	2.00	2.05
	43	1.93	2.48	3.08	3.75	4.49	5.33	2.23	2.22	2.22	2.23	2.26	2.29
CZBM250	32	2.76	3.43	4.20	5.07	6.05	7.10	1.80	1.83	1.88	1.95	2.02	2.11
	38	2.53	3.14	3.85	4.65	5.54	6.51	2.09	2.11	2.15	2.21	2.28	2.37
	43	2.33	2.88	3.52	4.26	5.08	5.99	2.38	2.40	2.43	2.47	2.54	2.62
CZBM300	32	3.42	4.23	5.15	6.17	7.28	8.50	2.30	2.38	2.47	2.57	2.70	2.84
	38	3.14	3.90	4.74	5.68	6.69	7.82	2.66	2.74	2.83	2.93	3.06	3.20
	43	2.88	3.59	4.38	5.23	6.18		3.00	3.07	3.17	3.28	3.40	
CZBM350	32	3.80	4.70	5.71	6.84	8.09	9.45	2.70	2.79	2.90	3.02	3.16	3.31
	38	3.47	4.31	5.26	6.31	7.48	8.77	3.06	3.15	3.26	3.38	3.51	3.65
	43		4.00	4.89	5.89	6.98			3.49	3.60	3.71	3.84	
CZBM400	32	4.44	5.41	6.51	7.73	9.08	10.56	3.02	3.17	3.33	3.50	3.68	3.89
	38	4.12	5.02	6.03	7.16	8.40	9.75	3.47	3.62	3.78	3.95	4.14	4.35
	43		4.69	5.63	6.67				4.04	4.21	4.39		
CZBM500	32	6.02	7.55	9.21	11.06	13.15	15.51	3.71	3.79	3.88	3.99	4.12	4.28
	38	5.45	6.92	8.50	10.24	12.21	14.43	4.23	4.32	4.41	4.52	4.66	4.83
	43	4.98	6.40	7.91	9.56	11.43	13.53	4.71	4.81	4.91	5.02	5.15	5.32
CZBM600	32	7.04	8.82	10.76	12.93	15.36	18.13	4.14	4.25	4.35	4.47	4.62	4.81
	38	6.37	8.09	9.93	11.98	14.26	16.86	4.73	4.84	4.95	5.07	5.23	5.42
	43	5.82	7.48	9.25	11.18	13.35	15.81	5.28	5.39	5.51	5.63	5.80	5.99
CZBM750	32	7.97	9.99	12.17	14.59	17.30	20.36	4.83	4.96	5.11	5.27	5.48	5.72
	38	7.20	9.15	11.23	13.50	16.05	18.93	5.53	5.67	5.81	5.99	6.20	6.45
	43	6.58	8.45	10.43	12.61	15.00	17.73	6.17	6.32	6.48	6.65	6.87	7.13

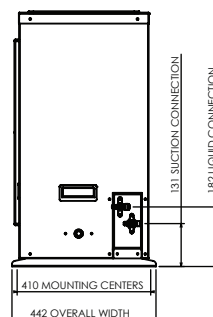
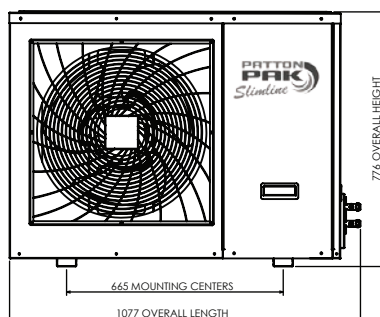
Note: The rating condition is based on a suction return gas 20°C, Subcool with the limits of the condensing unit.

# TECHNICAL DATA

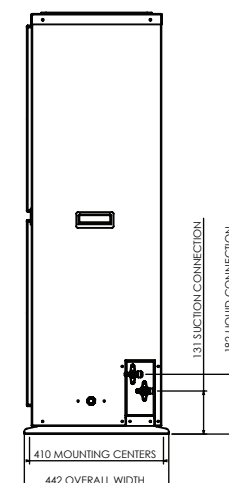
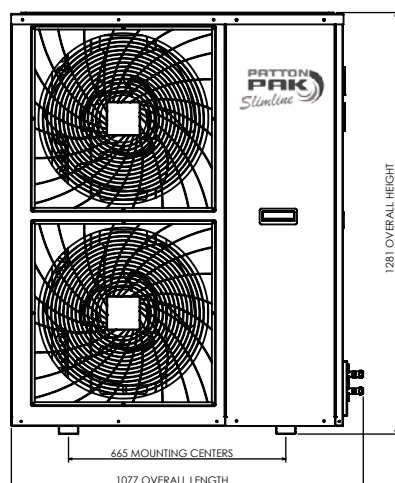
MODEL NAME		CZBM200	CZBM250	CZBM300	CZBM350	CZBM400	CZBM500	CZBM600	CZBM750
Compressor	MODEL	ZB15KQE-TFD	ZB19KQE-TFD	ZB21KQE-TFD	ZB26KQE-TFD	ZB29KQE-TFD	ZB38KQE-TFD	ZB45KQE-TFD	ZB48KQE-TFD
	Rated Input Voltage	AC 380-420V/3PH/50Hz							
	RLA Amps	3.2	4.4	4.5	5.8	7.2	6.8	9.5	9.5
	MCC Amps	4.9	6.5	7.15	8.9	10.0	12.8	13.1	14.0
	LRA Amps	26	32	40	46	50	65.5	74	101
	Oil Type	POE(32cSt)							
	Oil Precharge (L)	0.6							
Condenser	Oil Quantity (L)	1.24	1.36	1.45	1.45	1.36	2.07	1.9	1.8
	Air Flow (m <sup>3</sup> /h)	3400	3400	3400	3400	3400	7350	8700	8700
	Fan Motor	1x20"	1x20"	1x20"	1x20"	1x20"	2x18"	2x18"	2x20"
	Total Fan Power (W)	236	236	236	236	236	472	472	472
	Receiver (L)	4.7	4.7	4.7	4.7	4.7	7.9	7.9	7.9
	Suction Tube Size	3/4"	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	7/8"
	Liquid Tube Size	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	1/2"	1/2"
	Weight (kg)	72	74	76	77	82	110	111	113

# DIMENSION

CZBM200  
CZBM250  
CZBM300  
CZBM350  
CZBM400



CZBM500  
CZBM600  
CZBM750



Products, specifications and technical data contained in this document are subject to change without prior notice.