

CZF Microchannel Series

Powered by Copeland Scroll



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

R404A

2.0 8.0 HP

LOW TEMP

Model	Amb. (°C)	Capacity (kW)							Power Input (kW)						
		Evaporating Temperature (°C)							Evaporating Temperature (°C)						
		-40	-35	-30	-25	-20	-15	-10	-40	-35	-30	-25	-20	-15	-10
CZFM200	32	1.08	1.38	1.73	2.13	2.61	3.17	3.80	1.52	1.58	1.66	1.75	1.85	1.96	2.08
	38	0.97	1.24	1.56	1.93	2.37	2.87	3.45	1.67	1.74	1.82	1.90	2.00	2.11	2.23
	43	0.88	1.12	1.41	1.75	2.15	2.61	3.15	1.83	1.89	1.97	2.05	2.14	2.25	2.37
CZFM300	32	1.44	1.84	2.30	2.84	3.47	4.18	5.00	1.87	1.91	1.96	2.03	2.13	2.25	2.38
	38	1.30	1.66	2.08	2.56	3.13	3.78	4.53	2.08	2.11	2.16	2.23	2.32	2.43	2.56
	43	1.17	1.50	1.88	2.32	2.83	3.43	4.11	2.28	2.31	2.35	2.41	2.50	2.61	2.74
CZFM350	32	1.80	2.29	2.84	3.47	4.20	5.04	6.00	2.26	2.31	2.38	2.48	2.61	2.76	2.93
	38	1.62	2.06	2.55	3.12	3.78	4.54	5.41	2.49	2.53	2.61	2.71	2.83	2.98	3.16
	43	1.45	1.85	2.29	2.81	3.40	4.09	4.89	2.69	2.74	2.82	2.92	3.05	3.20	3.38
CZFM400	32	2.07	2.69	3.40	4.22	5.18	6.27	7.51	2.30	2.38	2.48	2.60	2.73	2.89	3.06
	38	1.89	2.42	3.05	3.80	4.66	5.66	6.81	2.56	2.65	2.75	2.87	3.01	3.16	3.34
	43	1.74	2.20	2.75	3.41	4.20	5.12	6.19	2.81	2.90	3.01	3.13	3.27	3.43	3.60
CZFM500	32	2.55	3.33	4.22	5.25	6.43	7.82	9.39	2.90	3.04	3.20	3.37	3.56	3.78	4.02
	38	2.31	3.00	3.79	4.71	5.78	7.03	8.48	3.20	3.36	3.53	3.71	3.90	4.12	4.36
	43	2.12	2.72	3.43	4.25	5.21	6.35	7.67	3.48	3.65	3.83	4.02	4.23	4.45	4.70
CZFM600	32	3.14	4.01	5.01	6.16	7.52	9.09	10.91	3.52	3.66	3.81	4.00	4.19	4.42	4.67
	38	2.84	3.63	4.53	5.57	6.79	8.21	9.86	3.84	3.99	4.15	4.34	4.55	4.78	5.04
	43	2.56	3.28	4.09	5.04	6.15	7.45	8.97	4.15	4.30	4.48	4.67	4.88	5.12	5.38
CZFM800	32	3.86	4.91	6.19	7.71	9.43	11.33	13.36	3.72	4.07	4.40	4.72	5.08	5.49	6.01
	38	3.51	4.43	5.58	6.96	8.52	10.27	12.14	3.96	4.37	4.75	5.11	5.51	5.95	6.49
	43	3.23	4.03	5.07	6.31	7.75	9.35	11.09	4.17	4.63	5.05	5.45	5.88	6.36	6.93

Note: The rating condition is based on a suction superheat of 10 K, Subcool with the limits of the condensing unit.



R407F

2.0 8.0 HP

LOW TEMP

Model	Amb. (°C)	Capacity (kW)							Power Input (kW)						
		Evaporating Temperature (°C)							Evaporating Temperature (°C)						
		-40	-35	-30	-25	-20	-15	-10	-40	-35	-30	-25	-20	-15	-10
CZFM200	32	0.98	1.27	1.62	2.03	2.51	3.05	3.66	1.42	1.46	1.53	1.61	1.71	1.79	1.85
	38	0.90	1.17	1.50	1.88	2.32	2.83	3.39	1.60	1.63	1.70	1.79	1.89	1.98	2.05
	43	0.83	1.08	1.39	1.75	2.16	2.63	3.15	1.79	1.82	1.88	1.97	2.07	2.17	2.26
CZFM300	32	1.30	1.63	2.09	2.63	3.20	3.77	4.27	1.84	1.87	1.94	2.02	2.10	2.14	2.13
	38	1.19	1.50	1.94	2.44	2.97	3.47	3.91	2.05	2.10	2.18	2.27	2.35	2.39	2.36
	43	1.10	1.40	1.81	2.28	2.77	3.22	3.60	2.27	2.33	2.42	2.52	2.61	2.64	2.61
CZFM350	32	1.62	2.02	2.60	3.27	3.98	4.66	5.26	2.20	2.26	2.38	2.51	2.64	2.72	2.71
	38	1.48	1.86	2.40	3.03	3.67	4.28	4.79	2.47	2.55	2.69	2.84	2.98	3.06	3.04
	43	1.37	1.73	2.24	2.81				2.74	2.84	3.00	3.18			
CZFM400	32	1.92	2.40	3.07	3.90	4.85	5.87	6.95	2.10	2.21	2.33	2.46	2.58	2.71	2.81
	38	1.78	2.19	2.80	3.57	4.48	5.47	6.53	2.41	2.52	2.64	2.77	2.91	3.04	3.17
	43	1.67	2.00	2.56	3.29	4.16	5.13	6.16	2.74	2.84	2.96	3.09	3.23	3.37	3.51
CZFM500	32	2.40	2.93	3.69	4.66	5.81	7.09	8.49	2.70	2.84	3.01	3.18	3.34	3.47	3.55
	38	2.21	2.68	3.39	4.30	5.38	6.61	7.96	3.01	3.18	3.37	3.56	3.74	3.87	3.95
	43	2.03	2.46	3.11	3.98	5.02	6.20	7.50	3.33	3.53	3.75	3.96	4.15	4.29	4.37
CZFM600	32	2.89	3.56	4.50	5.66	7.01	8.51	10.11	3.21	3.36	3.58	3.83	4.06	4.22	4.30
	38	2.69	3.28	4.15	5.24	6.51	7.93	9.47	3.62	3.78	4.02	4.28	4.53	4.72	4.81
	43	2.50	3.04	3.85	4.87	6.09	7.46	8.93	4.02	4.19	4.43	4.71	4.97	5.17	5.28
CZFM800	32	3.64	4.46	5.63	7.10	8.79	10.65	12.66	3.86	4.06	4.34	4.64	4.93	5.16	5.26
	38	3.38	4.11	5.20	6.56	8.17	9.94	11.85	4.37	4.58	4.87	5.21	5.52	5.77	5.90
	43	3.13	3.80	4.82	6.11	7.64	9.33	11.16	4.87	5.08	5.39	5.73	6.06	6.33	6.49

Note: The rating condition is based on a suction superheat of 10 K, Subcool with the limits of the condensing unit.



R448A / R449A

2.0 8.0 HP

LOW TEMP

Model	Amb. (°C)	Capacity (kW)							Power Input (kW)						
		Evaporating Temperature (°C)							Evaporating Temperature (°C)						
		-40	-35	-30	-25	-20	-15	-10	-40	-35	-30	-25	-20	-15	-10
CZFM200	32	1.00	1.27	1.61	2.02	2.52	3.10	3.76	0.65	0.67	0.69	0.72	0.77	0.82	0.88
	38	0.93	1.18	1.50	1.90	2.36	2.90	3.52	0.74	0.75	0.78	0.81	0.85	0.90	0.96
	43	0.87	1.11	1.41	1.78	2.22	2.73	3.31	0.82	0.84	0.86	0.90	0.94	0.99	1.05
CZFM300	32	1.32	1.69	2.15	2.69	3.33	4.07	4.90	1.74	1.79	1.85	1.93	2.04	2.16	2.31
	38	1.23	1.58	2.01	2.51	3.11	3.79	4.56	2.00	2.04	2.10	2.18	2.27	2.39	2.54
	43	1.16	1.49	1.88	2.35	2.90	3.54	4.26	2.26	2.30	2.35	2.42	2.51	2.63	2.76
CZFM350	32	1.66	2.11	2.66	3.31	4.07	4.94	5.93	2.00	2.06	2.14	2.25	2.39	2.56	2.76
	38	1.54	1.97	2.48	3.08	3.78	4.58	5.50	2.29	2.35	2.44	2.55	2.68	2.85	3.04
	43	1.44	1.83	2.31	2.86	3.51	4.26	5.10	2.60	2.66	2.74	2.84	2.98	3.14	3.33
CZFM400	32	1.87	2.54	3.26	4.08	5.04	6.18	7.55	2.83	2.75	2.73	2.77	2.83	2.91	2.98
	38	1.71	2.33	2.99	3.73	4.61	5.68	6.94	3.35	3.23	3.17	3.18	3.22	3.28	3.34
	43	1.56	2.13	2.73	3.41	4.22	5.20	6.39	3.88	3.71	3.63	3.60	3.62	3.66	3.71
CZFM500	32	2.50	3.36	4.27	5.29	6.50	7.95	9.70	3.49	3.46	3.49	3.58	3.68	3.80	3.90
	38	2.42	3.22	4.06	5.00	6.10	7.43	9.05	4.10	4.03	4.03	4.08	4.17	4.28	4.37
	43	2.38	3.13	3.89	4.74	5.75	6.98	8.47	4.70	4.60	4.58	4.60	4.66	4.75	4.83
CZFM600	32	2.83	3.80	4.81	5.96	7.32	8.97	10.96	4.28	4.20	4.19	4.25	4.34	4.45	4.55
	38	2.56	3.48	4.43	5.48	6.73	8.23	10.06	4.98	4.83	4.78	4.80	4.87	4.96	5.05
	43	2.29	3.17	4.06	5.03	6.17	7.56	9.26	5.65	5.46	5.37	5.35	5.39	5.46	5.53
CZFM800	32	3.50	4.63	5.94	7.45	9.19	11.20	13.47	4.50	4.66	4.85	5.08	5.33	5.60	5.89
	38	3.20	4.25	5.45	6.85	8.47	10.32	12.42	5.06	5.24	5.46	5.70	5.96	6.26	6.58
	43	2.93	3.91	5.02	6.32	7.81	9.53	11.49	5.59	5.78	6.02	6.27	6.56	6.87	7.20

Note: The rating condition is based on a suction superheat of 10 K, Subcool with the limits of the condensing unit.

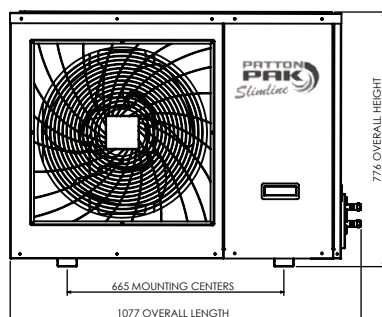


TECHNICAL DATA

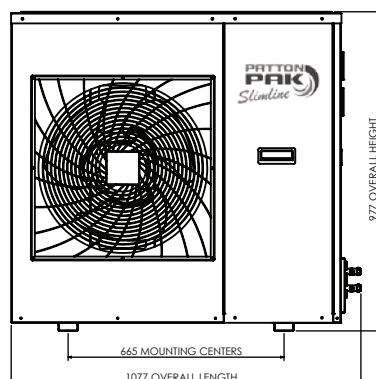
		CZFM200	CZFM300	CZFM350	CZFM400	CZFM500	CZFM600	CZFM800
Compressor	MODEL	ZF06KQE-TFD	ZF09KQE-TFD	ZF11KQE-TFD	ZF13KQE-TFD	ZF15KQE-TFD	ZF18KQE-TFD	ZF25KQE-TFD
	Rated Input Volt.	AC 380-420V/3PH/50Hz						
	RLA Amps	2.97	4.28	5.4	5.24	6.45	6.59	8.05
	MCC Amps	5	6	7.1	8	10.0	12.5	16.6
	LRA Amps	26	40	46	51.5	64	74	102
	Oil Type	POE(32cSt)						
	Oil Precharge (L)	0.6						
	Oil Quantity (L)	1.3	1.45	1.45	1.89	1.89	1.89	1.89
Condenser	Air Flow (m³/h)	3400	3400	3400	5200	7350	7350	8700
	Fan Motor	1x20"	1x20"	1x20"	1x20"	2x18"	2x18"	2x20"
	Total Fan Power (W)	236	236	236	236	472	472	472
	Reciever (L)	4.7	4.7	4.7	4.7	4.7	7.9	7.9
	Accumulator (L)	1.9	1.9	1.9	1.9	4.6	4.6	4.6
	Suction Tube Size	3/4"	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"
	Liquid Tube Size	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"
	Weight (kg)	82	84	85	104	116	124	135

DIMENSION

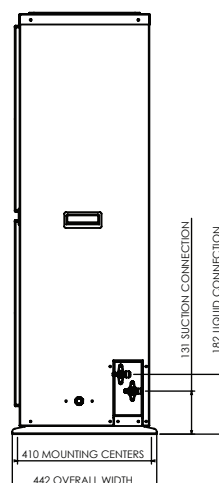
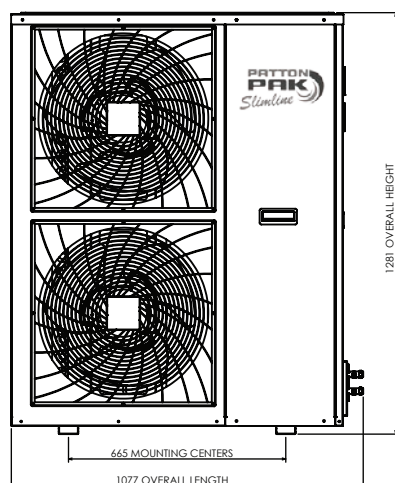
CZFM200
CZFM300
CZFM350



CZFM400



CZFM500
CZFM600
CZFM800



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SCMREF THAI

"Quality we care, United we are"