

Copeland

F-series water-cooled scroll units - 50Hz



Product Catalogue

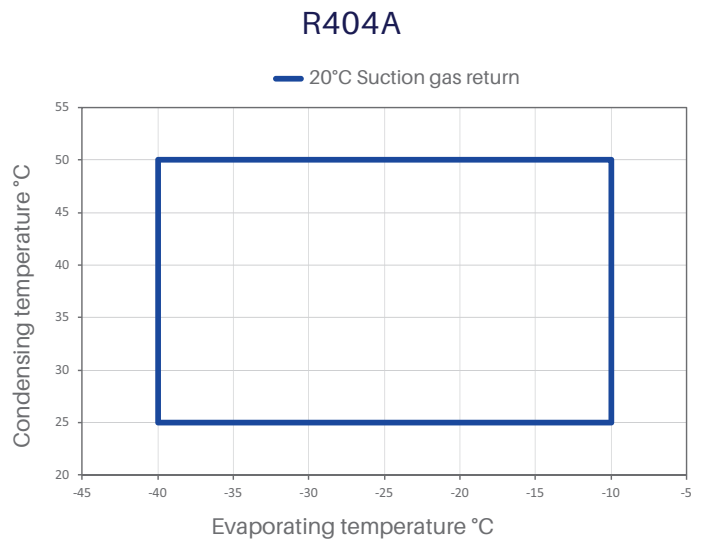
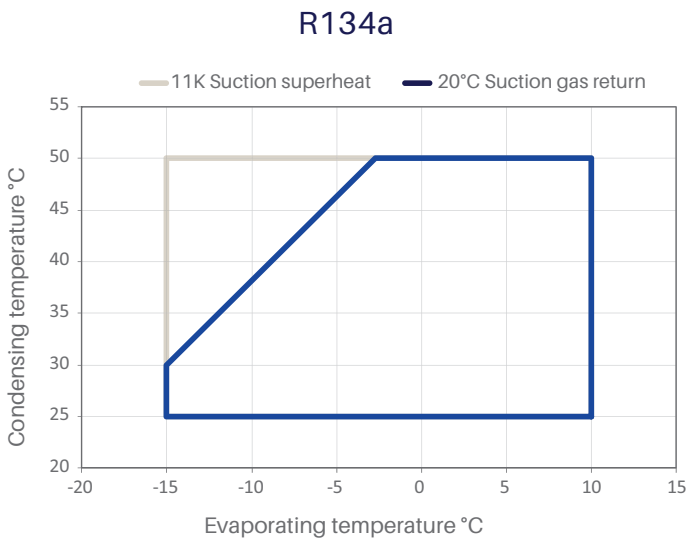
COPELAND

Copeland is a pioneer in scroll compressors. Copeland Scroll™ already has over 150 Million units installed worldwide. Scroll compressor has lesser moving parts as compared to a reciprocating compressor. This enables Copeland scroll water cooled condensing unit to offer compact design, high efficiency, low sound levels and increased reliability.

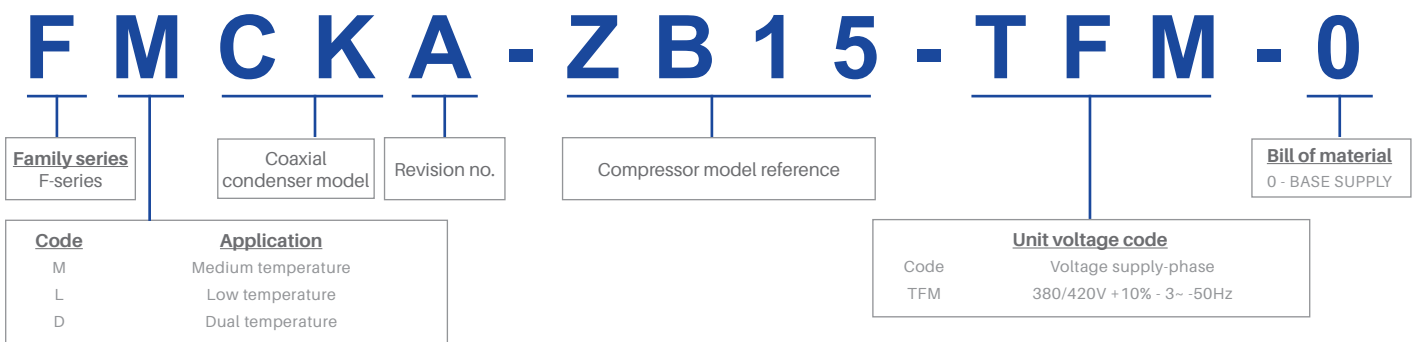
Unique features

- Compact design
- Optimal layout of components for easy serviceability
- Co-axial condenser
- Liquid receiver, HP/LP switch and crankcase heater
- Copeland Scroll compressor
 - Proven reliability
 - Lower sound levels and pulsations
 - Dual compliance for superior efficiency and better liquid handling

Envelopes



Nomenclature



Performance data

Medium temperature

R134a

Condensing unit Model	Condensing temperature (°C)	Capacity (kW)					Total power input (kW)				
		Evaporating temperature (°C)									
		-15	-10	-5	0	5	-15	-10	-5	0	5
FDCKA-ZS09-TFM	30	1.26	1.57	1.93	2.35	2.85	0.48	0.49	0.51	0.51	0.51
	35	1.20	1.50	1.84	2.24	2.71	0.52	0.54	0.56	0.57	0.57
	40	1.15	1.43	1.76	2.14	2.59	0.56	0.59	0.61	0.63	0.64
	45	1.10	1.36	1.67	2.03	2.46	0.62	0.65	0.67	0.69	0.71
FDCKA-ZS11-TFM	30	1.50	1.87	2.31	2.81	3.40	0.57	0.59	0.60	0.61	0.61
	35	1.44	1.79	2.20	2.68	3.24	0.62	0.64	0.66	0.67	0.68
	40	1.37	1.71	2.10	2.56	3.09	0.67	0.70	0.73	0.75	0.76
	45	1.31	1.62	2.00	2.43	2.94	0.74	0.77	0.80	0.82	0.84
FDCKA-ZS13-TFM	30	1.71	2.13	2.62	3.19	3.86	0.66	0.68	0.70	0.70	0.70
	35	1.63	2.03	2.50	3.05	3.68	0.71	0.74	0.76	0.78	0.79
	40	1.56	1.94	2.38	2.90	3.51	0.78	0.81	0.84	0.86	0.88
	45	1.49	1.84	2.27	2.76	3.33	0.85	0.89	0.92	0.95	0.98
FMCKA-ZB15-TFM	30	1.98	2.49	3.09	3.80	4.63	0.75	0.76	0.76	0.77	0.78
	35	1.82	2.37	2.95	3.63	4.42	0.84	0.84	0.85	0.86	0.86
	40	1.71	2.19	2.81	3.46	4.21	0.93	0.94	0.95	0.95	0.96
	45	1.61	2.06	2.66	3.27	3.99	1.03	1.04	1.05	1.06	1.06
FMCKA-ZB19-TFM	30	2.29	2.87	3.57	4.39	5.34	0.86	0.87	0.87	0.88	0.89
	35	2.10	2.74	3.41	4.19	5.10	0.96	0.96	0.97	0.98	0.99
	40	1.98	2.52	3.24	3.99	4.86	1.06	1.07	1.08	1.08	1.09
	45	1.85	2.37	3.06	3.78	4.61	1.18	1.19	1.20	1.21	1.22
FMCKA-ZB21-TFM	30	2.88	3.62	4.50	5.53	6.73	1.06	1.06	1.07	1.08	1.09
	35	2.65	3.45	4.29	5.28	6.43	1.18	1.18	1.19	1.20	1.21
	40	2.50	3.18	4.08	5.03	6.13	1.31	1.32	1.33	1.34	1.35
	45	2.34	2.99	3.86	4.76	5.81	1.45	1.46	1.48	1.49	1.50
FMCNA-ZB26-TFM	30	3.33	4.18	5.20	6.39	7.77	1.21	1.21	1.22	1.23	1.24
	35	3.06	3.99	4.96	6.10	7.43	1.34	1.35	1.36	1.37	1.38
	40	2.88	3.67	4.72	5.81	7.08	1.49	1.50	1.51	1.52	1.54
	45	2.70	3.45	4.46	5.50	6.71	1.65	1.67	1.68	1.69	1.71
FMCNA-ZB29-TFM	30	3.90	4.87	6.02	7.36	8.95	1.37	1.38	1.39	1.40	1.41
	35	3.58	4.63	5.73	7.03	8.54	1.54	1.55	1.56	1.57	1.58
	40	3.35	4.25	5.44	6.68	8.13	1.73	1.74	1.75	1.76	1.77
	45	3.12	3.98	5.13	6.31	7.70	1.93	1.94	1.95	1.96	1.97
FMCNA-ZB38-TFM	30	4.81	6.09	7.57	9.31	11.35	1.71	1.73	1.75	1.76	1.78
	35	4.42	5.80	7.23	8.88	10.80	1.90	1.92	1.94	1.96	1.98
	40	4.17	5.35	6.87	8.46	10.30	2.11	2.14	2.16	2.18	2.20
	45	3.91	5.04	6.52	8.02	9.77	2.35	2.38	2.40	2.42	2.45
FMCNA-ZB45-TFM	30	5.84	7.33	9.12	11.20	13.60	1.96	1.98	1.99	2.01	2.02
	35	5.37	6.97	8.70	10.70	13.05	2.19	2.21	2.23	2.25	2.26
	40	5.03	6.41	8.26	10.20	12.40	2.44	2.47	2.49	2.51	2.53
	45	4.69	6.00	7.80	9.65	11.75	2.73	2.75	2.77	2.80	2.82
FMCPA-ZB48-TFM	30	6.57	8.21	10.15	12.40	15.05	2.28	2.29	2.30	2.31	2.33
	35	6.07	7.84	9.69	11.85	14.40	2.54	2.56	2.57	2.59	2.61
	40	5.72	7.24	9.22	11.30	13.70	2.84	2.86	2.87	2.89	2.92
	45	5.36	6.81	8.74	10.70	13.00	3.17	3.19	3.21	3.22	3.25

Note: Operating conditions : 20°C suction gas return temperature and 3K subcooling

■ 11K suction superheat

Fluid data

Medium temperature

R134a

Condensing unit Model	Condensing temperature (°C)	Water flow rate (l/s)					Pressure drop (kPa)				
		Evaporating temperature (°C)									
		-15	-10	-5	0	5	-15	-10	-5	0	5
FDCKA-ZS09-TFM	30	0.07	0.08	0.10	0.12	0.14	2.76	4.00	4.55	6.48	7.86
	35	0.07	0.08	0.10	0.12	0.14	2.76	3.45	4.55	6.07	7.86
	40	0.07	0.08	0.10	0.11	0.14	2.76	3.45	4.55	5.79	7.72
	45	0.06	0.08	0.09	0.11	0.13	2.76	3.45	4.55	5.79	7.17
FDCKA-ZS11-TFM	30	0.08	0.10	0.12	0.14	0.17	3.45	4.69	6.34	8.14	10.62
	35	0.08	0.10	0.11	0.14	0.16	3.45	4.69	5.93	8.14	10.07
	40	0.08	0.09	0.11	0.14	0.16	3.45	4.69	5.93	7.86	9.93
	45	0.08	0.09	0.11	0.13	0.15	3.45	4.69	5.93	7.45	9.93
FDCKA-ZS13-TFM	30	0.09	0.11	0.13	0.16	0.19	4.14	5.93	7.72	10.20	12.82
	35	0.09	0.11	0.13	0.16	0.19	4.14	5.38	7.31	9.51	12.69
	40	0.09	0.11	0.13	0.15	0.18	4.14	5.38	7.31	9.51	12.13
	45	0.09	0.11	0.13	0.15	0.18	4.14	5.38	7.03	8.83	12.00
FMCKA-ZB15-TFM	30	0.11	0.13	0.16	0.19	0.22	5.52	7.31	9.79	12.55	17.10
	35	0.10	0.12	0.15	0.18	0.22	4.83	6.76	9.10	12.55	16.41
	40	0.10	0.12	0.15	0.18	0.21	4.83	6.76	9.10	11.86	15.72
	45	0.10	0.12	0.15	0.18	0.21	4.83	6.62	8.41	11.58	15.03
FMCKA-ZB19-TFM	30	0.12	0.15	0.18	0.22	0.26	6.21	8.69	11.86	16.27	21.37
	35	0.12	0.14	0.18	0.21	0.25	6.21	8.69	11.58	15.58	20.68
	40	0.12	0.14	0.17	0.21	0.24	6.21	8.14	11.17	14.89	19.86
	45	0.11	0.14	0.17	0.20	0.24	6.21	8.00	10.89	14.20	19.17
FMCKA-ZB21-TFM	30	0.15	0.19	0.22	0.27	0.32	8.96	12.69	16.82	23.03	30.75
	35	0.15	0.18	0.22	0.26	0.32	8.96	12.00	16.82	22.34	29.92
	40	0.15	0.18	0.21	0.26	0.31	8.96	12.00	16.13	21.37	28.54
	45	0.15	0.17	0.21	0.25	0.30	8.27	11.45	15.44	20.68	27.17
FMCNA-ZB26-TFM	30	0.18	0.21	0.26	0.31	0.37	11.72	12.27	12.82	14.07	16.13
	35	0.17	0.21	0.25	0.30	0.37	11.72	11.72	12.82	14.07	16.13
	40	0.17	0.20	0.25	0.30	0.35	11.72	11.72	12.82	14.07	15.44
	45	0.16	0.20	0.24	0.29	0.35	11.72	11.72	12.41	13.38	15.44
FMCNA-ZB29-TFM	30	0.19	0.23	0.28	0.34	0.41	11.72	12.27	13.51	15.03	17.65
	35	0.19	0.23	0.28	0.33	0.40	11.72	12.27	13.51	15.03	17.51
	40	0.19	0.23	0.27	0.33	0.39	11.72	12.27	13.51	14.75	16.96
	45	0.18	0.22	0.27	0.32	0.38	11.72	12.27	12.82	14.34	16.82
FMCNA-ZB38-TFM	30	0.25	0.31	0.38	0.45	0.54	13.10	14.20	16.41	19.72	25.65
	35	0.25	0.30	0.37	0.44	0.53	12.41	14.20	16.00	19.44	24.27
	40	0.25	0.30	0.36	0.43	0.51	12.41	13.65	16.00	18.75	23.44
	45	0.24	0.29	0.35	0.42	0.50	12.41	13.65	15.31	18.48	22.75
FMCNA-ZB45-TFM	30	0.30	0.37	0.45	0.54	0.65	13.79	16.27	19.86	25.51	34.34
	35	0.30	0.36	0.44	0.53	0.63	13.79	15.58	19.17	24.41	32.82
	40	0.29	0.35	0.43	0.51	0.62	13.79	15.58	18.48	23.44	31.44
	45	0.28	0.35	0.42	0.50	0.60	13.79	15.03	18.48	22.75	29.92
FMCPA-ZB48-TFM	30	0.35	0.42	0.51	0.61	0.72	7.58	10.62	14.34	19.31	25.65
	35	0.35	0.42	0.50	0.59	0.71	7.58	10.62	14.07	18.62	24.82
	40	0.34	0.41	0.49	0.58	0.69	7.58	10.07	13.65	18.34	23.58
	45	0.33	0.40	0.48	0.57	0.67	6.89	9.93	12.96	17.65	22.75

Performance data

Low temperature

R404A

Condensing unit Model	Condensing temperature (°C)	Capacity (kW)						Total power input (kW)					
		Evaporating temperature (°C)											
		-40	-35	-30	-25	-20	-15	-40	-35	-30	-25	-20	-15
FDCKA-ZS09-TFM	30			1.13	1.41	1.83	2.25			0.68	0.71	0.80	0.81
	35			1.07	1.33	1.70	2.10			0.74	0.78	0.87	0.89
	40			1.00	1.24	1.57	1.95			0.81	0.86	0.95	0.98
	45			0.93	1.16	1.45	1.80			0.90	0.96	1.04	1.08
FDCKA-ZS11-TFM	30			1.37	1.71	2.19	2.70			0.81	0.85	0.91	0.94
	35			1.29	1.61	2.04	2.52			0.88	0.93	0.99	1.03
	40			1.21	1.51	1.88	2.34			0.97	1.03	1.08	1.12
	45			1.13	1.40	1.74	2.16			1.08	1.14	1.19	1.23
FDCKA-ZS13-TFM	30			1.54	1.93	2.50	3.08			0.93	0.98	1.07	1.10
	35			1.45	1.81	2.32	2.88			1.01	1.07	1.17	1.20
	40			1.37	1.69	2.14	2.67			1.11	1.18	1.27	1.32
	45			1.28	1.57	1.98	2.46			1.23	1.31	1.39	1.44
FLCKA-ZF06-TFM	30	1.32	1.66	2.07	2.54	3.10	3.76	1.17	1.23	1.30	1.37	1.45	1.54
	35	1.25	1.57	1.95	2.41	2.93	3.55	1.28	1.33	1.40	1.47	1.55	1.64
	40	1.17	1.48	1.84	2.26	2.75	3.33	1.40	1.46	1.52	1.59	1.67	1.75
	45	1.09	1.38	1.71	2.11	2.56	3.09	1.55	1.60	1.66	1.73	1.80	1.89
FLCKA-ZF09-TFM	30	1.76	2.24	2.80	3.46	4.23	5.12	1.45	1.47	1.51	1.57	1.64	1.73
	35	1.67	2.13	2.65	3.27	3.99	4.83	1.60	1.62	1.65	1.70	1.77	1.86
	40	1.58	2.01	2.50	3.07	3.74	4.52	1.77	1.78	1.81	1.85	1.92	2.00
	45	1.48	1.88	2.34	2.86	3.48	4.20	1.95	1.96	1.98	2.03	2.09	2.16
FLCNA-ZF11-TFM	30	2.24	2.83	3.51	4.32	5.26	6.36	1.79	1.82	1.86	1.93	2.03	2.14
	35	2.13	2.69	3.34	4.09	4.97	6.00	1.95	1.97	2.02	2.09	2.17	2.28
	40	2.01	2.54	3.14	3.84	4.66	5.62	2.13	2.15	2.20	2.26	2.34	2.45
	45	1.88	2.37	2.93	3.58	4.33	5.22	2.32	2.35	2.39	2.45	2.54	2.64
FLCNA-ZF13-TFM	30	2.53	3.25	4.10	5.09	6.23	7.53	1.87	1.93	2.00	2.08	2.19	2.30
	35	2.40	3.07	3.86	4.78	5.86	7.09	2.06	2.12	2.19	2.28	2.37	2.49
	40	2.27	2.88	3.61	4.47	5.47	6.62	2.27	2.33	2.41	2.49	2.59	2.70
	45	2.15	2.70	3.36	4.14	5.06	6.13	2.51	2.58	2.65	2.74	2.84	2.95
FLCNA-ZF15-TFM	30	3.11	4.01	5.06	6.27	7.67	9.30	2.21	2.33	2.45	2.58	2.73	2.90
	35	2.93	3.78	4.76	5.89	7.21	8.74	2.44	2.56	2.68	2.82	2.97	3.14
	40	2.76	3.54	4.45	5.49	6.72	8.14	2.68	2.82	2.95	3.09	3.24	3.41
	45	2.61	3.31	4.13	5.08	6.20	7.50	2.96	3.10	3.25	3.40	3.55	3.72
FLCNA-ZF18-TFM	30	3.82	4.84	6.03	7.42	9.06	11.00	2.79	2.89	3.01	3.14	3.29	3.46
	35	3.62	4.59	5.71	7.01	8.54	10.35	3.03	3.13	3.25	3.39	3.55	3.71
	40	3.42	4.33	5.37	6.57	7.99	9.65	3.29	3.40	3.53	3.67	3.83	4.00
	45	3.19	4.04	5.00	6.11	7.41	8.94	3.59	3.71	3.84	3.98	4.14	4.31

Note: Operating conditions : 20°C suction gas return temperature and 3K subcooling

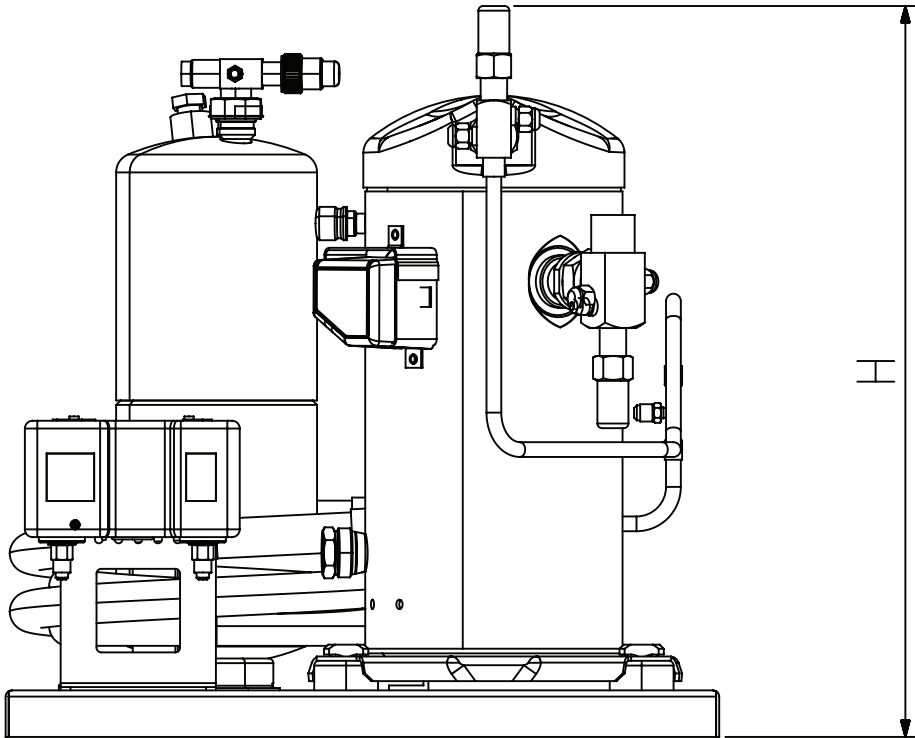
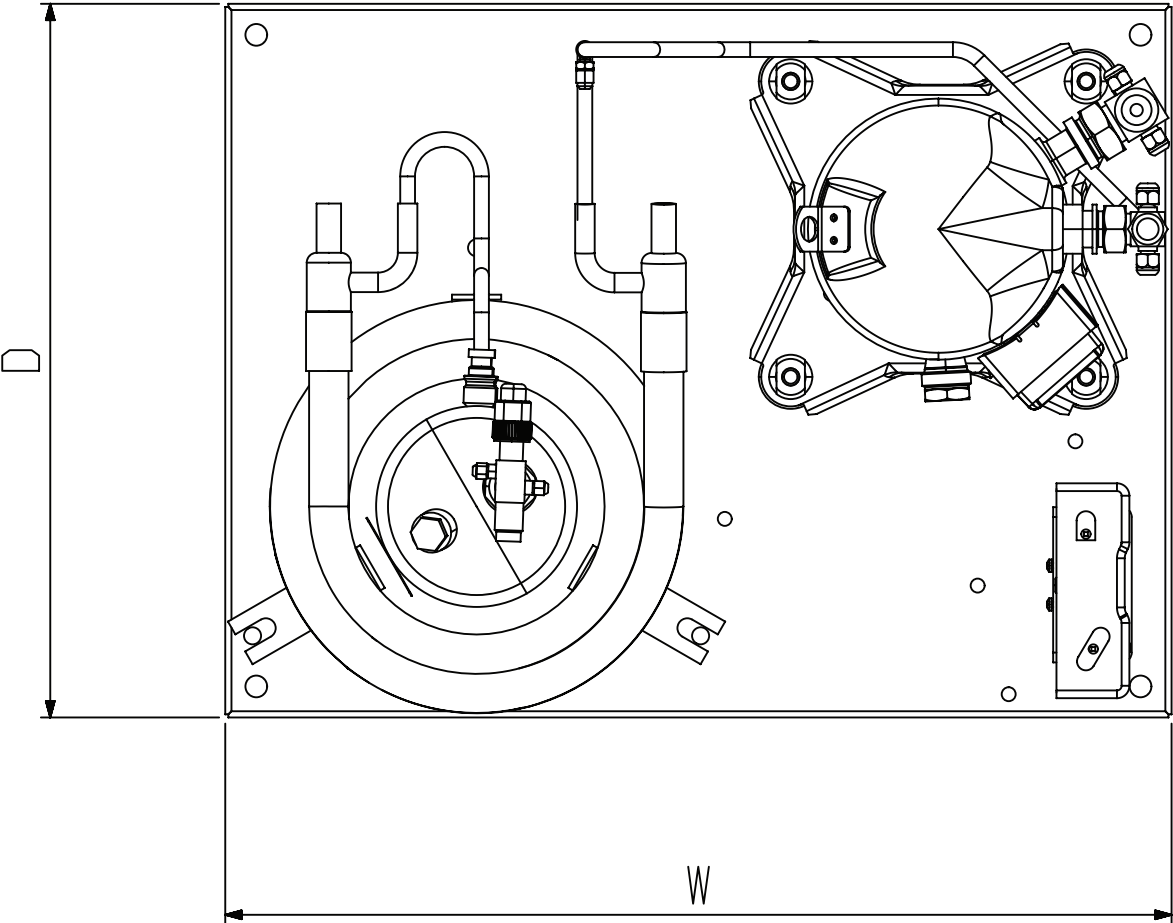
■ 4.4 °C Suction Gas Return Temperature

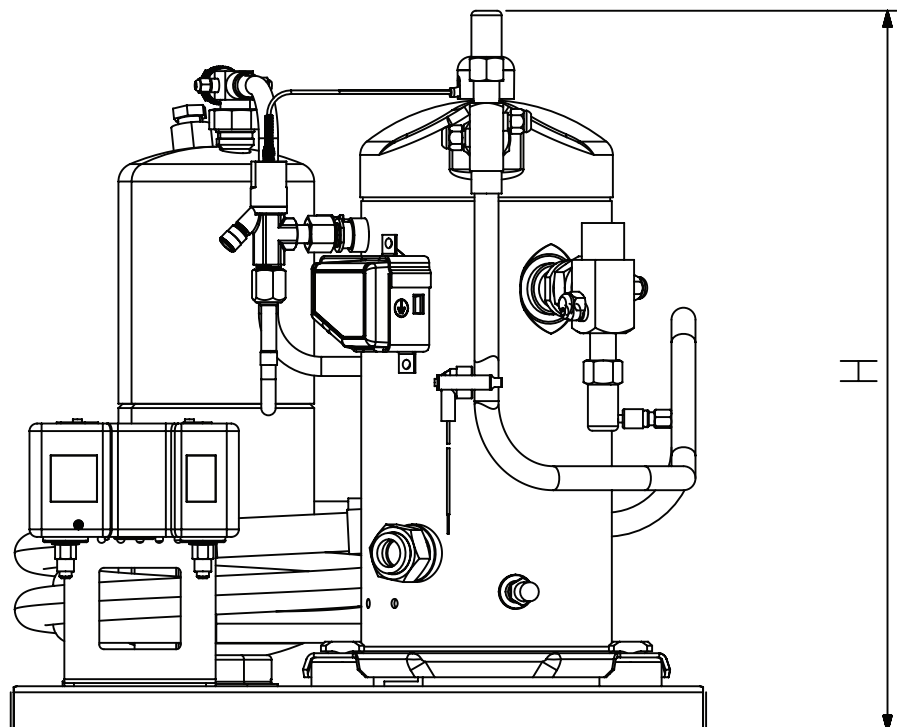
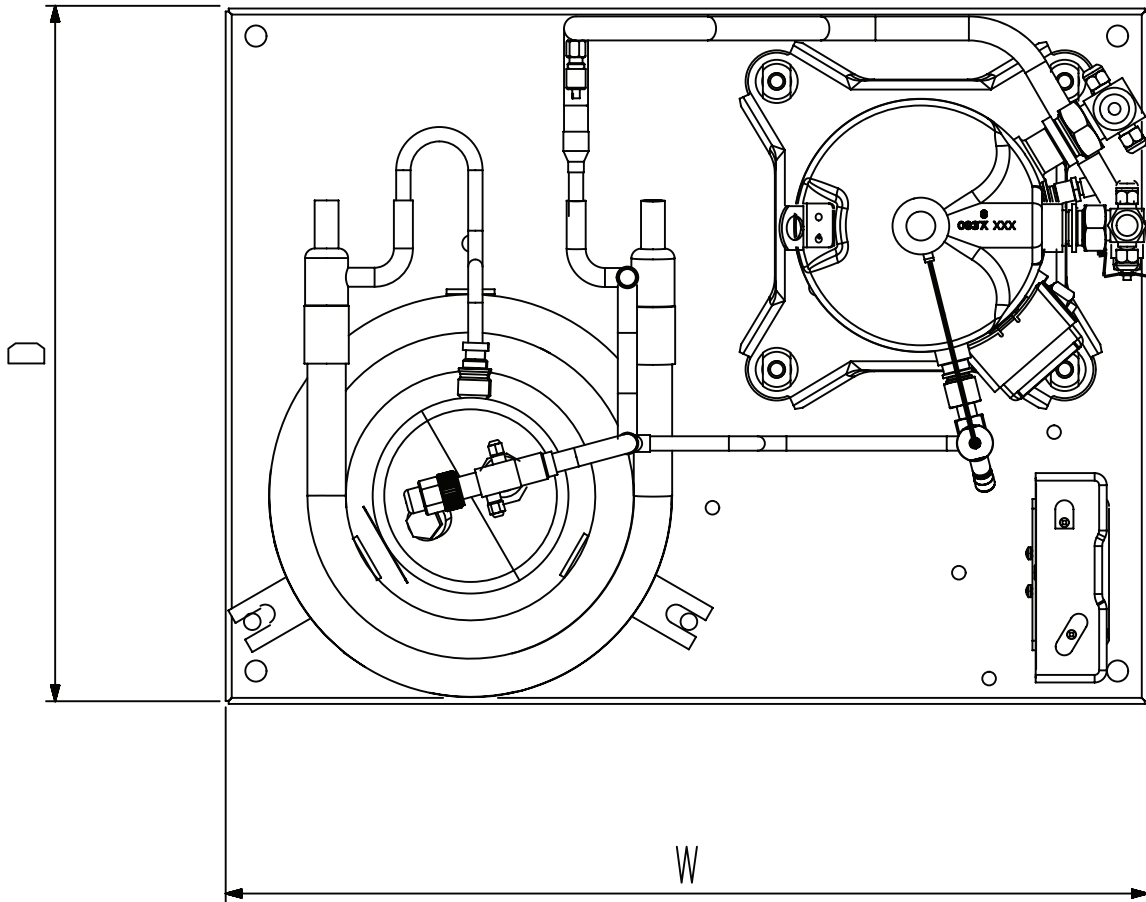
Fluid data

Low temperature

R404A

Condensing unit Model	Condensing temperature (°C)	Capacity (kW)						Total power input (kW)					
		Evaporating temperature (°C)											
		-40	-35	-30	-25	-20	-15	-40	-35	-30	-25	-20	-15
FDCKA-ZS09-TFM	30			0.07	0.08	0.10	0.12			2.76	3.86	5.24	6.21
	35			0.07	0.08	0.10	0.11			2.76	3.45	5.24	6.21
	40			0.07	0.08	0.10	0.11			2.76	3.45	4.55	5.52
	45			0.06	0.08	0.10	0.11			2.76	3.45	4.55	5.52
FDCKA-ZS11-TFM	30			0.08	0.10	0.12	0.14			3.45	4.41	6.34	8.27
	35			0.08	0.09	0.12	0.14			3.45	4.41	5.79	7.58
	40			0.08	0.09	0.11	0.13			3.45	4.41	5.65	7.58
	45			0.08	0.09	0.11	0.13			3.45	4.41	5.65	7.58
FDCKA-ZS13-TFM	30			0.09	0.11	0.14	0.16			4.14	5.93	8.41	10.34
	35			0.09	0.11	0.14	0.16			3.86	5.24	7.72	9.65
	40			0.09	0.11	0.13	0.15			3.86	5.24	7.72	9.65
	45			0.09	0.10	0.13	0.15			3.86	5.24	7.31	8.96
FLCKA-ZF06-TFM	30	0.08	0.10	0.12	0.15	0.17	0.21	4.14	5.38	6.62	8.83	11.45	15.17
	35	0.08	0.10	0.12	0.14	0.17	0.20	4.14	4.69	6.62	8.55	10.76	14.48
	40	0.08	0.10	0.12	0.14	0.17	0.20	4.14	4.69	6.34	8.14	10.62	13.79
	45	0.08	0.10	0.12	0.14	0.16	0.19	4.14	4.69	5.93	7.86	9.93	13.10
FLCKA-ZF09-TFM	30	0.11	0.13	0.16	0.19	0.23	0.27	5.52	7.45	9.79	13.24	17.24	22.75
	35	0.11	0.13	0.16	0.18	0.22	0.26	5.52	7.31	9.79	12.55	16.41	22.06
	40	0.11	0.13	0.15	0.18	0.21	0.25	5.52	7.31	9.38	12.27	15.72	20.68
	45	0.11	0.13	0.15	0.18	0.21	0.25	5.52	7.31	9.10	11.86	14.89	19.31
FLCNA-ZF11-TFM	30	0.14	0.17	0.20	0.24	0.28	0.33	11.03	11.58	11.72	12.41	13.24	15.17
	35	0.14	0.17	0.19	0.23	0.28	0.32	11.03	11.58	11.72	12.41	13.24	14.48
	40	0.14	0.16	0.19	0.22	0.26	0.32	11.03	11.58	11.72	12.41	13.24	14.48
	45	0.13	0.16	0.19	0.22	0.26	0.30	11.03	11.03	11.72	12.00	12.55	13.79
FLCNA-ZF13-TFM	30	0.15	0.19	0.23	0.27	0.33	0.38	11.03	11.72	12.13	13.38	14.62	16.55
	35	0.15	0.19	0.22	0.26	0.32	0.37	11.03	11.72	12.13	13.10	14.62	16.55
	40	0.15	0.18	0.22	0.26	0.31	0.36	11.03	11.72	12.13	12.69	13.93	15.86
	45	0.15	0.18	0.21	0.25	0.29	0.35	11.03	11.72	12.13	12.69	13.93	15.17
FLCNA-ZF15-TFM	30	0.18	0.23	0.28	0.34	0.40	0.48	11.72	12.27	13.51	15.03	17.65	21.37
	35	0.18	0.22	0.27	0.33	0.39	0.46	11.72	12.27	13.10	14.75	16.96	20.68
	40	0.18	0.22	0.27	0.32	0.38	0.45	11.72	12.27	12.82	14.34	16.27	19.31
	45	0.18	0.22	0.26	0.31	0.37	0.43	11.72	12.27	12.82	14.07	16.13	18.62
FLCNA-ZF18-TFM	30	0.23	0.28	0.33	0.40	0.48	0.57	12.41	13.10	14.89	17.37	21.24	27.58
	35	0.23	0.27	0.33	0.39	0.46	0.55	12.41	12.96	14.62	17.10	20.55	25.51
	40	0.22	0.27	0.32	0.38	0.45	0.53	12.41	12.96	14.20	16.41	19.72	24.13
	45	0.22	0.27	0.31	0.37	0.43	0.50	12.41	12.96	14.20	16.13	19.03	22.75





Mechanical data

Condensing unit model	Compressor model	Receiver capacity (l)	Depth/width [D / W] (mm)	Height [H] (mm)	Suction Ø [SL] (")	Liquid Ø [LL] (")	Water Inlet ODF (")	Water Outlet ODF (")	Net weight (kg)	Gross weight (kg)
FDCKA-ZS09-TFM	ZS09KAE-TFD-600	3.9	460/618	495	5/8	1/2	5/8	5/8	39	49
FDCKA-ZS11-TFM	ZS11KAE-TFD-600	3.9	460/618	495	5/8	1/2	5/8	5/8	39	49
FDCKA-ZS13-TFM	ZS13KAE-TFD-600	3.9	460/618	495	5/8	1/2	5/8	5/8	39	49
FMCKA-ZB15-TFM	ZB15KQE-TFD-559	3.9	460/610	471	3/4	1/2	5/8	5/8	42	52
FMCKA-ZB19-TFM	ZB19KQE-TFD-559	3.9	460/610	471	3/4	1/2	5/8	5/8	44	54
FMCKA-ZB21-TFM	ZB21KQE-TFD-559	3.9	460/610	494	3/4	1/2	5/8	5/8	44	54
FMCNA-ZB26-TFM	ZB26KQE-TFD-559	7.9	570/680	510	7/8	1/2	7/8	7/8	62	77
FMCNA-ZB29-TFM	ZB29KQE-TFD-559	7.9	570/680	527	7/8	1/2	7/8	7/8	66	81
FMCNA-ZB38-TFM	ZB38KQE-TFD-559	7.9	570/680	545	1 1/8	1/2	7/8	7/8	70	85
FMCNA-ZB45-TFM	ZB45KQE-TFD-559	7.9	570/680	545	1 1/8	1/2	7/8	7/8	72	87
FMCPA-ZB48-TFM	ZB48KQE-TFD-559	7.9	610/725	559	1 1/8	1/2	1 1/8	1 1/8	76	91
FLCKA-ZF06-TFM	ZF06KQE-TFD-551	3.9	460/610	477	3/4	1/2	5/8	5/8	42	52
FLCKA-ZF09-TFM	ZF09KQE-TFD-551	3.9	460/610	499	3/4	1/2	5/8	5/8	44	54
FLCNA-ZF11-TFM	ZF11KQE-TFD-551	7.9	570/680	515	7/8	1/2	7/8	7/8	61	76
FLCNA-ZF13-TFM	ZF13KQE-TFD-551	7.9	570/680	545	7/8	1/2	7/8	7/8	71	86
FLCNA-ZF15-TFM	ZF15KQE-TFD-551	7.9	570/680	545	1 1/8	1/2	7/8	7/8	72	87
FLCNA-ZF18-TFM	ZF18KQE-TFD-551	7.9	570/680	545	1 1/8	1/2	7/8	7/8	74	89

Electrical data

Condensing unit model	Compressor model	Compressor maximum operating current	Compressor locked rotor current (A)
FDCKA-ZS09-TFM	ZS09KAE-TFD-600	3.00	27.0
FDCKA-ZS11-TFM	ZS11KAE-TFD-600	3.30	27.0
FDCKA-ZS13-TFM	ZS13KAE-TFD-600	4.00	29.0
FMCKA-ZB15-TFM	ZB15KQE-TFD-559	4.90	26.0
FMCKA-ZB19-TFM	ZB19KQE-TFD-559	6.50	32.0
FMCKA-ZB21-TFM	ZB21KQE-TFD-559	7.15	40.0
FMCNA-ZB26-TFM	ZB26KQE-TFD-559	8.85	46.0
FMCNA-ZB29-TFM	ZB29KQE-TFD-559	10.00	50.0
FMCNA-ZB38-TFM	ZB38KQE-TFD-559	12.80	65.5
FMCNA-ZB45-TFM	ZB45KQE-TFD-559	13.10	74.0
FMCPA-ZB48-TFM	ZB48KQE-TFD-559	14.00	101.0
FLCKA-ZF06-TFM	ZF06KQE-TFD-551	5.00	26.0
FLCKA-ZF09-TFM	ZF09KQE-TFD-551	6.00	40.0
FLCNA-ZF11-TFM	ZF11KQE-TFD-551	7.10	46.0
FLCNA-ZF13-TFM	ZF13KQE-TFD-551	8.00	51.5
FLCNA-ZF15-TFM	ZF15KQE-TFD-551	10.00	64.0
FLCNA-ZF18-TFM	ZF18KQE-TFD-551	12.50	74.0

About Copeland

Copeland, a global provider of sustainable climate solutions, combines category-leading brands in compression, controls, software and monitoring for heating, cooling and refrigeration. With best-in-class engineering and design and the broadest portfolio of modulated solutions, we're not just setting the standard for compressor leadership; we're pioneering its evolution. Combining our technology with our smart energy management solutions, we can regulate, track and optimize conditions to help protect temperature-sensitive goods over land and sea, while delivering comfort in any space. Through energy-efficient products, regulation-ready solutions and expertise, we're revolutionizing the next generation of climate technology for the better. For more information, visit copeland.com.

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