

CKC Outdoor Units

CKC OUTDOOR UNITS ARE DESIGNED TO COMPLIMENT THE MARSTAIR RANGE OF SPLIT SYSTEM AIR HANDLING UNITS, BUT ARE EQUALLY SUITED FOR USE IN A WIDE VARIETY OF VENTILATION AND AIR CONDITIONING APPLICATIONS

Suitable for wall mounting or free standing, these stylish and efficient outdoor units incorporate the latest technology to deliver low sound levels.

Specification

- Easy access for installation and service
- Suction and liquid service valves
- Fan speed head pressure control
- Low ambient start timer
- 3 minute delay timer / random start timer
- Crankcase Heater (reciprocating only)
- Contactor
- LP switch (auto)
- HP switch (auto)
- Up to 80m pipe runs
(equivalent length including 20m lift available)
(Models 15-20 up to 50m)
- CKC 15-40 (Reciprocation compressors)
- CKC 50-200 (Scroll compressors)
- Supplied with a Nitrogen holding charge

For further information please contact our Technical Department on 01484 405666



Options

- CSR 1 Phase
- Overload on 1 Phase (Standard on 3ph)
- Wall mounting kit
- Volt free relay / HP switch (with alarm output)
- Isolator
- Compressor jacket
- Noise attenuation kit



Technical Information - CKC 15-200 Cooling Capacities

MODEL	AIR ON TO CONDENSER °C	SATURATED SUCTION TEMPERATURE °C											
		-2.5		0		2.5		5		7.5		10	
		COOLING CAPACITY AND POWER INPUT KW											
		CAP	POWER	CAP	POWER	CAP	POWER	CAP	POWER	CAP	POWER	CAP	POWER
CKC 15	25	1.93	0.69	2.14	0.70	2.35	0.70	2.55	0.71	2.76	0.72	2.96	0.72
	30	1.81	0.74	2.01	0.75	2.21	0.76	2.41	0.77	2.61	0.78	2.81	0.79
	35	1.69	0.79	1.89	0.80	2.08	0.81	2.27	0.83	2.46	0.84	2.65	0.86
	40	1.58	0.84	1.76	0.86	1.95	0.88	2.13	0.90	2.32	0.91	2.50	0.93
	45	1.46	0.90	1.64	0.92	1.82	0.94	2.00	0.97	2.18	0.99	2.36	1.01
CKC 20	25	2.25	0.08	2.49	0.81	2.71	0.81	2.96	0.82	3.22	0.84	3.49	0.85
	30	2.08	0.84	2.31	0.86	2.54	0.87	2.78	0.89	3.01	0.90	3.26	0.92
	35	1.94	0.90	2.16	0.92	2.38	0.93	2.61	0.95	2.84	0.97	3.05	0.98
	40	1.83	0.98	2.04	0.99	2.25	1.01	2.46	1.03	2.66	1.05	2.86	1.06
	45	1.73	1.07	1.92	1.08	2.11	1.09	2.30	1.11	2.49	1.13	2.68	1.15
CKC 30	25	2.87	1.02	3.22	1.05	3.53	1.06	3.74	1.04	4.12	1.07	4.49	1.10
	30	2.71	1.10	3.06	1.13	3.27	1.12	3.51	1.12	3.84	1.15	4.19	1.18
	35	2.59	1.20	2.82	1.20	3.03	1.19	3.36	1.23	3.68	1.26	3.79	1.22
	40	2.38	1.27	2.17	1.32	2.80	1.26	3.12	1.31	3.32	1.31	3.62	1.35
	45	2.11	1.30	2.43	1.36	2.53	1.31	2.84	1.37	-	-	-	-
CKC 40	25	3.38	1.13	3.70	1.15	4.02	1.16	4.35	1.18	4.67	1.19	5.00	1.21
	30	3.19	1.22	3.50	1.24	3.81	1.26	4.11	1.28	4.42	1.30	4.73	1.32
	35	3.01	1.31	3.30	1.33	3.59	1.36	3.88	1.38	4.17	1.41	4.46	1.43
	40	2.84	1.40	3.11	1.43	3.37	1.47	3.63	1.50	3.89	1.53	4.15	1.56
	45	2.68	1.51	2.91	1.55	3.15	1.58	3.38	1.62	3.61	1.66	3.85	1.70
CKC 50	25	4.57	1.87	5.09	2.03	5.51	2.14	5.97	2.25	6.41	2.38	6.79	2.51
	30	4.34	1.95	4.75	2.09	5.25	2.19	5.63	2.32	6.04	2.45	6.49	2.58
	35	3.94	2.00	4.42	2.13	4.91	2.24	5.29	2.36	5.75	2.49	6.09	2.65
	40	3.76	2.05	4.22	2.18	4.58	2.29	5.04	2.41	5.39	2.58	5.69	2.74
	45	3.50	2.12	3.93	2.22	4.37	2.35	4.69	2.48	-	-	-	-
CKC 60	25	5.43	2.22	6.02	2.27	6.61	2.31	7.21	2.37	7.80	2.42	8.39	2.47
	30	5.06	2.46	5.64	2.51	6.22	2.56	6.80	2.62	7.39	2.67	7.97	2.73
	35	4.77	2.72	5.33	2.78	5.89	2.83	6.45	2.89	7.01	2.95	7.57	3.01
	40	4.39	3.01	4.91	3.07	5.43	3.13	5.95	3.19	6.47	3.26	6.99	3.32
	45	4.02	3.32	4.49	3.40	4.97	3.46	5.45	3.53	5.93	3.60	-	-
CKC 80	25	6.07	2.26	6.64	2.31	7.21	2.37	7.79	2.42	8.36	2.47	8.93	2.53
	30	5.68	2.49	6.23	2.54	6.77	2.60	7.32	2.66	7.87	2.71	8.42	2.77
	35	5.28	2.72	5.81	2.78	6.33	2.83	6.86	2.89	7.38	2.95	7.91	3.01
	40	4.90	3.03	5.39	3.10	5.88	3.16	6.37	3.23	6.86	3.29	7.35	3.36
	45	4.52	3.35	4.97	3.42	5.43	3.49	5.88	3.56	6.33	3.63	-	-
CKC 90	25	7.16	2.89	7.71	2.95	8.26	3.01	8.81	3.06	9.36	3.12	9.91	3.18
	30	6.69	3.17	7.21	3.24	7.74	3.30	8.27	3.36	8.79	3.42	9.32	3.48
	35	6.22	3.46	6.72	3.52	7.22	3.59	7.72	3.65	8.23	3.72	8.73	3.78
	40	5.80	3.79	6.27	3.86	6.74	3.93	7.22	4.00	7.69	4.07	8.17	4.14
	45	5.38	4.12	5.82	4.20	6.27	4.27	6.71	4.34	7.16	4.42	7.60	4.49
CKC 100	25	7.87	3.18	9.10	3.42	10.40	3.66	11.52	3.87	12.61	3.87	13.83	3.86
	30	7.60	3.23	8.73	3.88	9.68	3.81	10.71	4.05	11.66	4.18	12.71	4.29
	35	7.00	3.24	8.06	3.56	9.03	3.87	9.92	4.13	10.91	4.31	11.89	4.52
	40	6.17	3.16	7.12	3.54	8.14	3.86	8.91	4.17	9.86	4.47	10.80	4.75
	45	5.12	2.95	6.18	3.47	7.07	3.89	7.89	4.25	-	-	-	-
CKC 130	25	9.69	3.14	10.71	3.46	11.72	3.73	12.76	4.01	13.71	4.28	14.56	4.54
	30	9.09	3.16	10.07	3.46	11.11	3.74	12.12	4.08	13.05	4.36	13.93	4.68
	35	8.27	3.27	9.32	3.61	10.27	3.91	11.34	4.25	12.41	4.56	13.29	4.91
	40	7.61	3.29	8.58	3.65	9.54	4.01	10.44	4.31	11.46	4.68	-	-
	45	6.89	3.34	7.63	3.68	8.68	4.09	-	-	-	-	-	-

MODEL	AIR ON TO CONDENSER °C	SATURATED SUCTION TEMPERATURE °C											
		-2.5		0		2.5		5		7.5		10	
		COOLING CAPACITY AND POWER INPUT kW											
		CAP	POWER	CAP	POWER	CAP	POWER	CAP	POWER	CAP	POWER	CAP	POWER
CKC 150	25	11.06	3.73	12.26	4.13	13.26	4.46	14.30	4.82	15.24	5.15	16.19	5.47
	30	10.42	3.75	11.52	4.14	12.56	4.48	13.57	4.88	14.56	5.24	15.48	5.63
	35	9.46	3.89	10.59	4.32	11.61	4.68	12.69	5.08	13.77	5.47	14.77	5.90
	40	8.70	3.90	9.79	4.35	10.76	4.78	11.67	5.15	-	-	-	-
	45	7.90	3.98	8.89	4.40	-	-	-	-	-	-	-	-
CKC 165	25	11.97	4.13	13.30	4.57	14.29	4.95	15.32	5.36	16.26	5.73	17.28	6.09
	30	11.31	4.15	12.49	4.59	13.52	4.98	14.54	5.42	15.57	5.82	16.51	6.26
	35	10.26	4.30	11.44	4.79	12.51	5.19	13.59	5.64	14.67	6.08	15.75	6.56
	40	9.43	4.31	10.60	4.81	11.58	5.29	12.49	5.17	-	-	-	-
	45	8.57	4.41	-	-	-	-	-	-	-	-	-	-
CKC 180	25	13.42	4.71	14.97	5.12	16.28	5.45	17.63	5.79	18.86	6.13	20.27	6.47
	30	12.74	4.75	14.13	5.16	15.39	5.51	16.76	5.90	18.08	6.26	19.34	6.64
	35	11.52	4.94	12.94	5.38	14.34	5.76	15.67	6.16	17.12	6.56	18.51	6.98
	40	10.63	4.96	11.97	5.44	13.28	5.89	14.43	6.26	15.95	6.74	17.31	7.18
	45	9.72	5.10	10.95	5.61	12.17	6.09	13.31	6.49	14.63	6.98	-	-
CKC 200	25	15.28	5.37	16.96	5.90	18.96	6.47	21.12	6.87	22.34	7.28	23.48	7.65
	30	14.42	5.41	16.01	5.92	17.73	6.41	19.75	6.96	21.18	7.40	22.52	7.88
	35	13.13	5.51	14.68	6.17	16.49	6.68	18.30	7.23	19.88	7.74	21.48	8.27
	40	12.03	5.62	13.59	6.24	15.13	6.82	16.58	7.31	18.33	7.92	-	-
	45	10.99	5.78	12.36	6.42	13.80	7.03	-	-	-	-	-	-

Sound Pressure Levels

SOUND PRESSURE LEVELS					
MODEL	HIGH dBA	LOW dBA	MODEL	HIGH dBA	LOW dBA
CKC	49	44	CKC 80	49	47
CKC	49	44	CKC 90	52	47
CKC	50	44	CKC 100	53	50
CKC 40	49	44	CKC130	52	50
CKC	49	47	CKC165	57	53
CKC 60	50	49	CKC200	62	56

Sound pressure levels measured at 3m distance from unit in anechoic conditions

Dimensions & Weights

DIMENSIONS AND WEIGHTS											
MODEL	WIDTH (mm)	DEPTH (mm)	HEIGHT (mm)	WEIGHT KG		MODEL	WIDTH (mm)*	DEPTH (mm)	HEIGHT (mm)**	WEIGHT KG	
				1Ph	3Ph					1Ph	3Ph
CKC 15	900	300	560	45	-	CKC 90	1000	350	760	76	73
CKC 20	900	300	560	46	-	CKC 100	1000	350	760	-	81
CKC 30	900	300	560	48	48	CKC 130	1000	425	1020	-	101
CKC 40	900	300	560	53	53	CKC 150	1000	425	1020	-	103
CKC 50	1000	300	660	64	62	CKC 165	1000	425	1020	-	103
CKC 60	1000	300	660	65	63	CKC 180	1100	425	1215	-	118
CKC 80	1000	300	660	66	64	CKC 200	1100	425	1215	-	173

* Does not include service valves,

** Add 60mm for feet



T: 01484 405 666
E: sales@marstair.com

In partnership with

QUARTZ
FAN COILS AND HVAC

Marine / Bespoke



CORROSION PROTECTION

A WIDE RANGE OF CASE AND HEAT EXCHANGER MATERIAL OPTIONS FOR CORROSIVE MARINE ENVIRONMENTS.

Coastal, Extreme High and Low Ambients, Harsh Dusty Environments and Large & Small Vessels.

- Case Material Options
 - Plastisol Coating
 - Stainless Steel
- Heat Exchanger Options
 - Copper Tube Aluminium Fins
 - Corrosion Protective Coating
 - Copper Tube & Fins



T: 01484 405 666
E: sales@marstair.com

TEV has earned management system accreditations – BSI 14001: 2015 Environmental Management and BSI 9001: 2015 Quality Management.



In partnership with

QUARTZ
PAIN COILS AND HW

Part No: 06617731-02