

PHYSICAL SPECIFICATIONS



Evaporator Units

Vertical and Horizontal Casing Type – GKAC & UKAC)

Note: Power supply for GKAC30C to 95C is 240-1-50hz.

Model	Blower Section				Evaporator Section			Filters		Approx. Operating Weight lbs[kg]
	Blower		Motor Max HP	Air Flow Min - Max cfm[m ³ /hr]	Coil		Water Inlet/Outlet Conn. O.D. inches[mm]	Qty.	Size inches [mm]	
	Qty.	Dia. X Width			Rows Deep	Face Area ft ² [m ²]				
GKA30C	1	9x7 (inches)	315W	750-900 [1274-1529]	3, 4	2.2 [0.2]	1 [25]	1	16x20x1 [406x508x25]	110 [50]
GKA40C	1	9x7 (inches)	425W	1200-1500 [2039-2549]	3, 4	3.2 [0.3]	1 1/2 [38]	1	20x25x1 [508x635x25]	120 [54]
GKA50C	1	9x9 (inches)	425W	1450-1700 [2464-2889]	3, 4	4.2 [0.4]	1 1/2 [38]	2	20x16x1 [508x406x25]	140 [64]
GKA81C	1	10x10 (inches)	750W	2050-2200 [3483-3738]	3, 4	4.4 [0.4]	1 1/2 [38]	2	16x20x1 [406x508x25]	275 [125]
GKA95C	1	10x10 (inches)	750W	2300-2600 [3908-4418]	3, 4	5.0 [0.5]	1 1/2 [38]	2	20x20x1 [508x508x25]	340 [154]
GKA145C	1	12x12 (inches)	4.0	2070-4140 [3517-7035]	3, 4	6.9 [0.6]	1 1/2 [38]	1 1	20x25x1 [508x635x25] 25x25x1 [635x635x25]	400 [181]
UKA145C	1	12x12 (inches)	4.0	2070-4140 [3517-7035]	3, 4	6.9 [0.6]	1 1/2 [38]	2	25x25x1 [635x635x25]	474 [215]
GKA190C	1	15x15 (inches)	5.5	2760-5520 [4690-9380]	3, 4	9.2 [0.9]	1 1/2 [38]	2	25x25x1 [635x635x25]	500 [227]
UKA190C	1	15x15 (inches)	5.5	2760-5520 [4690-9380]	3, 4	9.2 [0.9]	1 1/2 [38]	1 2	25x16x1 [635x406x25] 20x25x1 [508x635x25]	560 [254]
GKA250C	1	15x15 (inches)	10.0	3900-7800 [6627-13254]	3, 4	13.0 [1.2]	2 [51]	1 2	20x25x1 [508x635x25] 25x25x1 [635x635x25]	680 [308]
UKA250C	1	15x15 (inches)	10.0	3900-7800 [6627-13254]	3, 4	13.0 [1.2]	2 [51]	4	20x25x1 [508x635x25]	767 [348]
UKA320C	1	18x13 (inches)	15.0	5100-10200 [8666-17332]	3, 4	17.0 [1.6]	2 [51] 2 1/2 [64]	3 3	16x25x1 [406x635x25] 20x25x1 [508x635x25]	920 [417]
UKA435C	1	450x450 (mm)	15.0	6570-13140 [11164-22327]	3, 4	21.9 [2.0]	2 1/2 [64]	3 3	25x25x1 [635x635x25] 20x25x1 [508x635x25]	1150 [522]
UKA480C	1	500x500 (mm)	20.0	8750-17520 [14868-29770]	3, 4	29.2 [2.7]	2 1/2 [64]	9	20x25x1 [508x635x25]	1450 [658]
UKA470C	1	500x500 (mm)	20.0	8750-17520 [14868-29770]	3, 4	29.2 [2.7]	2 1/2 [64]	9	20x25x1 [508x635x25]	1600 [726]
UKA760C	1	560x560 (mm)	30.0	10200-20400 [17332-34664]	3, 4	34.0 [3.2]	2 1/2 [64] 3 [76]	3 6	20x25x1 [508x635x25] 25x25x1 [635x635x25]	1900 [862]

Evaporator Free Blow Units (UKA-C-EA)

Model	Blower Section				Filter		Water Inlet / Outlet Connection O.D. inches[mm]
	Blower		Motor HP (Each)	cfm[m ³ /hr]	Qty.	Size - inches[mm]	
	Qty.	Dia. X Width (inches)					
UKA68C-EA	1	10 - 10	1/2	2100 [3568]	1	20 7/8 x 18 1/8 x 1/2 [530x460x13]	1 1/2 [38]
UKA95C-EA	2	9 - 7	1/3	2400 [4078]	2	20 7/8 x 18 1/8 x 1/2 [530x460x13]	1 1/2 [38]
UKA145C-EA	2	10 - 8	1 1/2	3500 [5947]	2	27 3/4 x 18 1/8 x 1/2 [705x460x13]	1 1/2 [38]
UKA190C-EA	2	10 - 10	1 1/2	4400 [7476]	2	32 5/8 x 18 1/8 x 1/2 [829x460x13]	1 1/2 [38]

Note : UKA68C-EA - and UKA95C-EA are 240-1-50hz.

PERFORMANCE DATA



Capacity Based On 44°F EWT, 54°F LWT

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Model	Supply Air cfm [m³/hr]	Coil Row	80°FDB / 67°FWB				75°FDB / 62°FWB				72°FDB / 60°FWB			
			Capacity (MBH)		Flow Rate USgpm	Press. Drop ft.wg	Capacity (MBH)		Flow Rate USgpm	Press. Drop ft.wg	Capacity (MBH)		Flow Rate USgpm	Press. Drop ft.wg
			Total	Sensible			Total	Sensible			Total	Sensible		
GKA30C	800 [1359]	3	25.1	18.6	5.0	3.7	17.3	16.3	3.5	1.9	14.5	14.5	2.9	1.4
		4	29.6	21.1	5.9	3.1	20.3	18.4	4.1	1.6	17.0	16.5	3.4	1.2
GKA40C	1300 [2209]	3	35.9	28.2	7.2	1.7	25.0	25.0	5.0	0.9	21.0	21.0	4.2	0.7
		4	42.7	32.1	8.6	1.5	29.5	28.3	5.9	0.8	24.8	24.8	5.0	0.6
GKA50C	1550 [2634]	3	43.9	34.1	8.8	1.5	30.4	30.4	6.1	0.8	25.6	25.6	5.1	0.6
		4	56.4	40.5	11.3	2.8	38.7	35.3	7.8	1.5	32.5	31.8	6.5	1.1
GKA81C	2100 [3568]	3	57.4	44.8	11.5	3.1	40.0	40.0	8.0	1.7	33.8	33.8	6.8	1.2
		4	73.7	53.4	14.8	5.9	50.9	46.7	10.2	3.1	42.8	42.0	8.6	2.3
GKA95C	2400 [4078]	3	65.6	51.2	13.1	3.2	45.7	45.7	9.2	1.7	38.6	38.6	7.7	1.3
		4	84.2	61.0	16.9	6.1	58.1	53.4	11.6	3.2	48.9	48.9	9.8	2.4
UKA145C GKA145C	3500 [5947]	3	96.8	74.9	19.4	4.8	67.4	66.7	13.5	2.6	56.9	56.9	11.4	1.9
		4	123.6	89.0	24.7	9.0	85.4	77.9	17.1	4.7	72.0	70.2	14.4	3.5
UKA190C GKA190C	4400 [7476]	3	129.6	97.4	25.9	7.7	89.8	86.2	18.0	4.1	75.8	75.8	15.2	3.0
		4	163.1	115.3	32.7	13.9	112.6	100.4	22.5	7.3	94.9	90.4	19.0	5.4
UKA250C GKA250C	6400 [10875]	3	185.8	140.6	37.2	5.7	128.8	124.5	25.8	3.0	108.7	108.7	21.8	2.2
		4	239.5	168.4	47.9	14.8	165.5	146.6	33.1	7.8	139.6	131.8	27.9	5.9
UKA320C	8000 [13594]	3	235.8	177.5	47.2	5.7	163.4	157.2	32.7	3.0	137.9	137.9	27.6	2.3
		4	280.8	203.2	56.2	5.4	193.8	178.2	38.8	2.8	163.1	160.3	32.6	2.0
UKA435C	10500 [17842]	3	307.4	231.9	61.5	6.1	213.1	205.3	42.7	3.2	179.8	179.8	36.0	2.4
		4	395.0	277.4	79.1	15.0	272.9	241.6	54.6	7.9	230.0	217.2	46.0	5.9
UKA480C	12000 [20390]	3	371.3	275.0	74.3	4.8	255.8	242.0	51.2	2.5	215.5	215.5	43.1	1.9
		4	472.4	327.2	94.6	11.9	325.5	282.9	65.2	6.3	273.8	254.5	54.8	4.7
UKA570C	14000 [23789]	3	409.8	309.2	82.1	5.7	284.1	273.8	56.9	3.0	239.7	239.7	48.0	2.3
		4	526.6	369.9	105.4	14.4	363.9	322.1	72.9	7.6	306.6	289.6	61.4	5.7
UKA760C	17000 [28886]	3	490.2	371.3	98.1	6.1	340.5	330.1	68.2	3.3	287.5	287.5	57.6	2.4
		4	632.6	445.9	126.6	15.6	437.2	388.3	87.5	8.2	368.8	349.7	73.8	6.1

NOTES:

1.) To correct for different air flow, use this multiplier:

Air Flow Variation	Total Capacity	Sensible Capacity
0.9	0.93	0.92
1.0	1.00	1.00
1.1	1.07	1.08

2.) To correct for altitude, use this multiplier:

Altitude Above Sea Level - ft	Cooling Capacity
0	1.00
2000	0.98
3000	0.97
4000	0.96
5000	0.95
6000	0.93
7000	0.92

BLOWER PERFORMANCE



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A) GKA30C to GKA95C

GKA30C		GKA40C		GKA50C		GKA81C	UKA81C	GKA95C	UKA95C
CC 9/7 – 315Z		CC 9/7 – 425Z		CC 9/9 – 425Z		CC 10/10 – 750Z		CC 10/10 – 750Z	
cfm	ESP	cfm	ESP	cfm	ESP	cfm	ESP	cfm	ESP
750	0.74	1200	0.68	1450	0.54	2050	0.84	2300	0.52
800	0.72	1300	0.56	1550	0.41	2100	0.82	2400	0.47
850	0.69	1400	0.39	1650	0.23	2150	0.76	2500	0.27
900	0.66	1500	0.18	1700	0.08	2200	0.70	2600	0.11

B) GKA / UKA 145C to 760C

RPM	Air flow in cfm										Fan Model
	ESP	BHP	ESP	BHP	ESP	BHP	ESP	BHP	ESP	BHP	
UKA145C GKA145C											12 – 12 (Inches)
3100		3300		3500		3700		3900			
800	0.39	1.05	0.34	1.15	0.28	1.27	0.19	1.38	0.10	1.50	
900	0.68	1.26	0.63	1.38	0.58	1.50	0.50	1.65	0.43	1.78	
1000	1.01	1.51	0.96	1.64	0.90	1.77	0.82	1.92	0.76	2.08	
1100	1.32	1.77	1.31	1.93	1.27	2.08	1.18	2.24	1.11	2.40	
UKA190E GKA190E											15 – 15 (Inches)
3800		4100		4400		4700		5000			
700	0.50	1.18	0.42	1.31	0.37	1.47	0.31	1.64	0.24	1.80	
800	0.82	1.47	0.76	1.62	0.71	1.80	0.64	1.98	0.57	2.17	
900	1.18	1.84	1.13	2.01	1.08	2.17	1.03	2.36	0.96	2.59	
1000	1.54	2.23	1.51	2.41	1.48	2.64	1.44	2.86	1.37	3.04	
UKA250C GKA250C											15 – 15 (Inches)
5600		6000		6400		6800		7200			
900	1.12	3.07	1.06	3.45	0.99	3.79	0.82	4.20	0.31	4.68	
950	1.33	3.34	1.27	3.71	1.20	4.12	1.12	4.50	0.92	4.95	
1000	1.56	3.61	1.48	3.99	1.42	4.41	1.34	4.87	1.28	5.31	
1050	1.79	3.87	1.72	4.29	1.65	4.75	1.57	5.20	1.5	5.71	
GKA320C											18 – 13 (Inches)
6600		7300		8000		8700		9400			
850	1.77	4.36	1.59	5.00	1.43	5.67	1.25	6.39	0.6	7.29	
900	2.07	4.81	1.93	5.46	1.75	6.26	1.61	6.98	1.28	7.84	
950	2.37	5.23	2.28	6.02	2.10	6.77	1.92	7.65	1.76	8.47	
1000	2.70	5.70	2.61	6.55	2.47	7.33	2.29	8.32	2.08	9.22	
GKA435C											450 – 450 (mm)
9000		9750		10500		11250		12000			
650	0.71	4.06	0.56	4.60	0.42	5.17	0.24	5.76	0.05	6.39	
700	0.98	4.53	0.82	5.13	0.71	5.76	0.54	6.39	0.36	7.10	
750	1.27	5.07	1.13	5.67	1.00	6.35	0.84	7.05	0.67	7.80	
800	1.55	5.63	1.44	6.29	1.32	7.01	1.17	7.79	1.01	8.59	
GKA480C											500 – 500 (mm)
8000		10000		12000		14000		16000			
650	1.20	3.54	1.06	4.71	0.83	6.09	0.50	7.72	0.07	9.58	
700	1.46	4.06	1.33	5.31	1.13	6.81	0.82	8.58	0.42	10.60	
750	1.72	4.64	1.62	5.99	1.44	7.60	1.15	9.50	0.79	11.68	
800	1.98	5.27	1.93	6.73	1.76	8.46	1.50	10.48	1.15	12.80	
GKA570C											500 – 500 (mm)
12000		13000		14000		15000		16000			
650	0.83	6.09	0.67	6.89	0.50	7.72	0.31	8.65	0.07	9.58	
700	1.13	6.81	0.98	7.68	0.82	8.58	0.65	9.57	0.42	10.60	
750	1.44	7.60	1.30	8.51	1.15	9.50	0.99	10.56	0.79	11.68	
800	1.76	8.46	1.97	10.40	1.50	10.48	1.34	11.60	1.15	12.80	
GKA760C											560 – 560 (mm)
15300		16150		17000		17850		18700			
550	0.60	7.04	0.50	7.65	0.39	8.30	0.25	8.97	0.12	9.66	
600	0.94	8.02	0.83	8.67	0.73	9.41	0.61	10.15	0.49	10.92	
650	1.30	9.09	1.21	9.83	1.10	10.59	0.98	11.41	0.87	12.27	
700	1.67	10.27	1.58	11.02	1.49	11.86	1.38	12.75	1.26	13.65	

Notes: 1. Values based on four row wet and standard washable filter.

2. For three row of wet coil, add 0.08" wg of external static pressure.