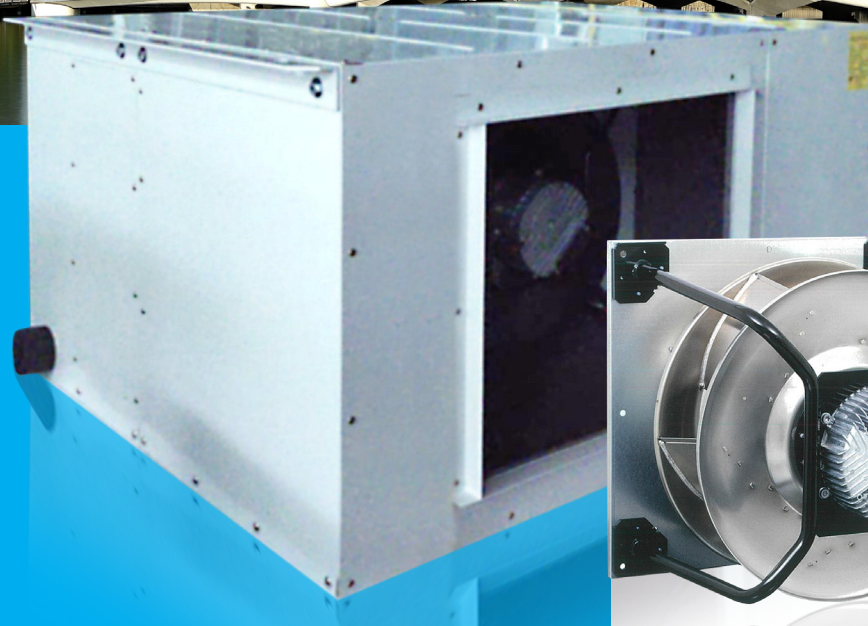




SGPCG02A

Perfecting the Air

# EC MOTOR Air Handling Units

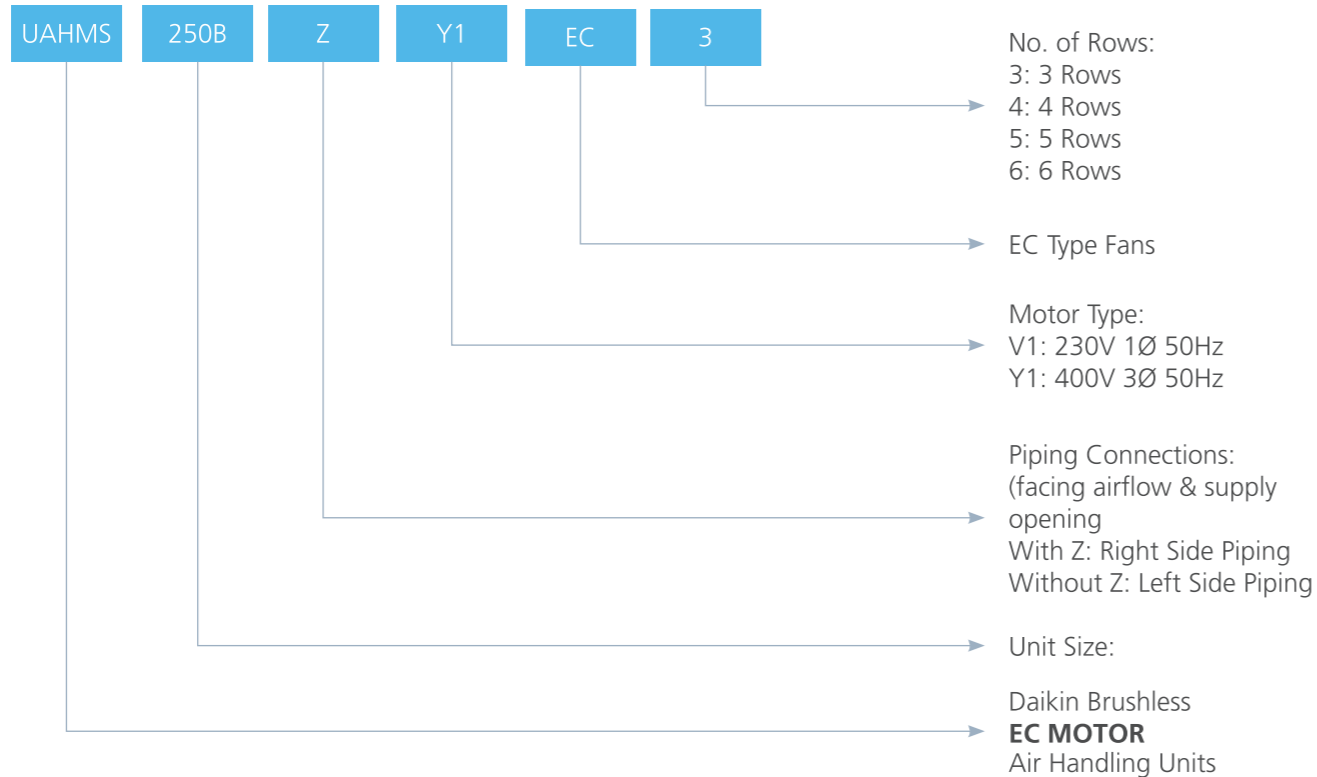


UAHMS-Series

# PRODUCT INTRODUCTION

Daikin UAHMS ducted type Air Handling Unit uses EC brushless motor with permanent magnets to synchronize rotation, produce torque, so that the motor maintains very high efficiency (65% to 80%) at various speeds and “slip” is avoided. Thus, UAHMS Series is able to reduce the transmission loss to get the benefit of lower operating costs and shorter payback periods.

## NOMENCLATURE



## FEATURES

### FLEXIBLE DESIGN

With an array of equipment, Daikin FCU can meet a wide range of airflow capacity from 1300 - 9500CMH where this is made possible with an increase in number of rows of coils to meet the cooling requirements.

### EFFICIENT SPEED CONTROL

Daikin's control interface allows for the use of a standard thermostat that provides an enhanced feature in EC FCUs. The thermostat provides a temperature and set point control, which inputs to the interface, and manage the FCU to ramp up or down depending on the space conditions.

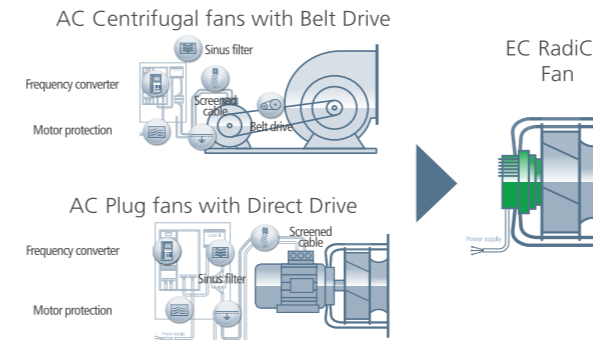
### LONGER MOTOR LIFE RESULTING FROM LOWER RUNNING TEMPERATURE

With EC motor's high efficiency, most of the electrical energy is used to run the motor, which results in low amount of energy being wasted through heat. This achieves lower running temperature, which in turn reduce the amount of wear on the parts of the motor.

### LONGER BEARING LIFE BECAUSE OF THE SOFT START FEATURE

With the use of soft start, the electronic power supply gradually turns, in comparison to conventional motor start up where there is a surge in electrical current. This will temporarily reduce the load and torque during the motor start up, achieving lesser mechanical stress on the bearing. Thus, prolonging the bearing life.

## AC FAN SYSTEMS VS EC FAN SYSTEMS



A Conventional AC fan system comprises of several components (belts, pulleys, motors, etc.), which cause losses in terms of slippage, power consumption (copper + iron losses) and inherent heat losses within each component.

In contrast, an EC fan system is provided as a complete assembly. There is minimal power loss with the integrated system and the electric current is energized by a semiconductor stage to produce torque. EC fans have high efficiency over a wide operating point because the integrated components are optimised for each other.

## CLOSER LOOK AT EC RADICAL FAN

<b>Inlet Ring</b>	Pre-assembled for convenience • Optimised positioning of nozzle with respect to impeller • Pressure tap for air flow control standard	Low losses • Optimised impeller inflow
<b>High-Performance Impeller</b>	Great efficiency • Profiled blade geometry for maximum efficiency  Quiet operation • Areodynamically optimised air flow for reduced noise	Innovative materials • Impeller made of tough composite material • UV-and corrosion-resistant
<b>EC Motor</b>	Incredibly compact • Impeller mounted directly on motor rotor  Great efficiency • Low copper and iron losses • Synchronous running prevents slip losses • Use of permanent magnets prevents magnetic hysteresis losses in rotor  Economical operation • Optimised commutation enables partial-load operation down to 1:10 • High efficiency even in partial-load operation	Low noise emission • Commutation and stator design ensure quiet magnetisation of the main field • High, acoustically imperceptible cycle frequency  Long service life • Maintenance-free bearings • Brushless commutation  Reliable & safe operation • Insulated bearing system to prevent bearing currents
<b>Electronics &amp; Connection Area</b>	Precision Control • Infinitely variable speed settings • Control signal of 0-10 DC and MODBUS  Universal use • For use with 50 and 60Hz grids • Worldwide voltage range and grid forms	Simple commissioning • Central terminal area for mains connection, alarm relay, open-loop control and communication • Safe separation of terminal area and electronics • High-quality terminal clamps • No adjustment effort
<b>Support Bracket</b>	Simple installation • Complete system for quick and easy installation • Simple attachment using the nozzle place • Installation with horizontal or vertical motor shaft	Areodynamically perfect • Areodynamically efficient • Optimised factory positioning of the nozzle

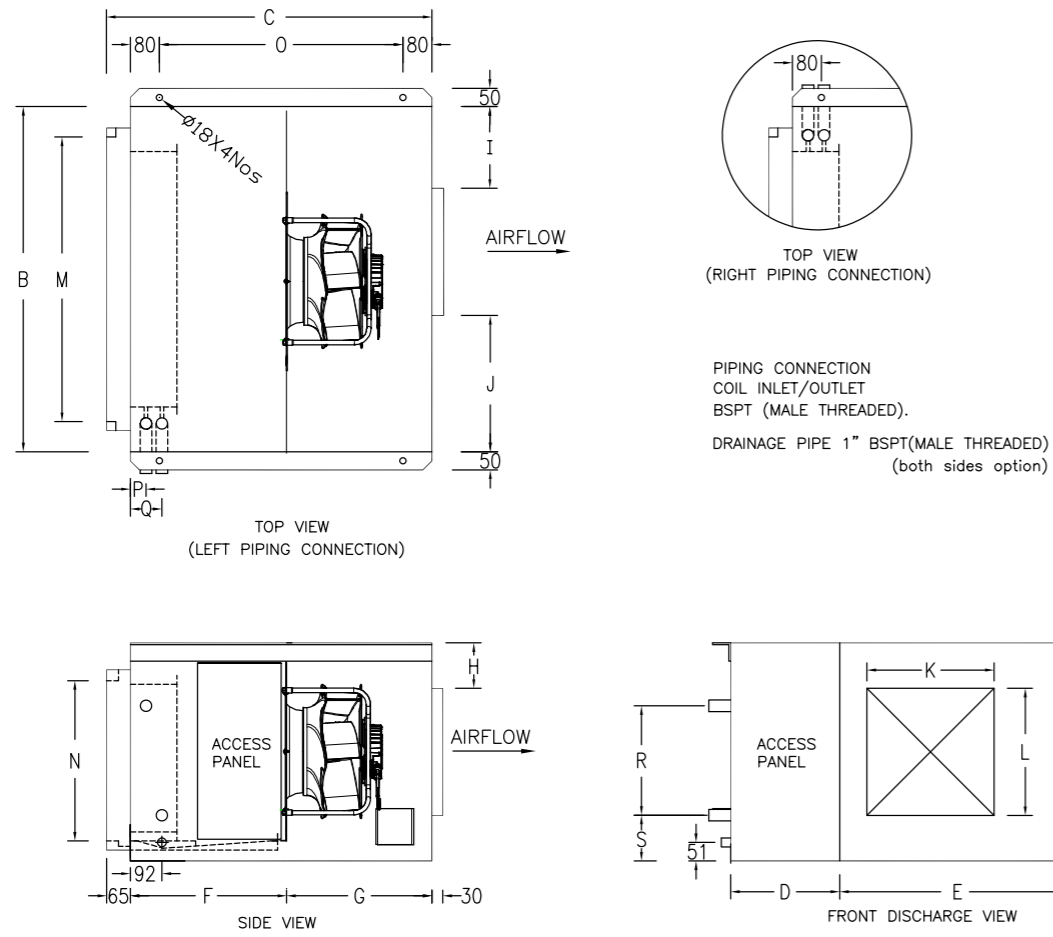
## EC FAN SYSTEMS

EC Fan modulating operation: Fan remain in operation at optimum speed and performance to achieve the required airflow rate.

Potential energy saving: With an assumed fan operation profile in Europe, the EC Fan modulating operation considerably reduces power consumption by 56% over the course of a year.

The use of innovative GreenTech EC technology is always a key step to Green City!

## DIMENSIONS



Dimension of Units

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
UAHMS 90	600	950	895	300	650	430	400	125	225	375	350	350	785	455	670
UAHMS 130	600	1050	995	300	750	430	500	75	175	375	500	450	880	480	770
UAHMS 200	730	1230	1025	300	930	460	500	115	280	400	550	500	1060	610	800
UAHMS 250	730	1620	1075	500	1120	460	550	90	420	600	600	550	1450	610	850
UAHMS 350	900	1970	1205	635	1335	490	650	125	435	735	800	650	1800	710	980
UAHMS 500	900	1970	1205	635	1335	490	650	125	435	735	800	650	1800	760	980

## PIPE CONNECTION POSITION

Nos. of Row	3 Rows Coil				4 Rows Coil				5 Rows Coil				6 Rows Coil				Pipe Connection Size (B.S.P.T. Male Thread)
	P	Q	R	S	P	Q	R	S	P	Q	R	S	P	Q	R	S	
UAHMS 90	44	88	332	120	44	110	332	120	44	132	332	120	-	-	-	-	Ø1 - 1/4"
UAHMS 130	44	110	339	129	44	110	339	129	44	132	339	129	-	-	-	-	Ø2"
UAHMS 200	44	110	484	120	44	110	484	120	44	132	484	120	-	-	-	-	Ø1 - 1/4"
UAHMS 250	44	110	466	129	44	110	466	129	44	132	466	129	-	-	-	-	Ø2"
UAHMS 350	-	-	-	-	44	110	568	129	44	132	568	129	44	154	568	129	Ø2"
UAHMS 500	-	-	-	-	44	110	618	120	44	132	618	129	44	154	618	129	Ø2"

## SPECIFICATIONS (1)

\* Nominal Return Air Condition: 27.0°CDB / 19.0°CWB  
\* Nominal Chilled Water Temperature (Inlet/Outlet): 7°C / 12°C

Model	Right Piping	UAHMS90BZV1EC3			UAHMS90BZV1EC4			UAHMS90BZV1EC5			UAHMS130BZV1EC3			UAHMS130BZV1EC4			UAHMS130BZV1EC5		
	Left Piping	UAHMS90BV1EC3			UAHMS90BV1EC4			UAHMS90BV1EC5			UAHMS130BV1EC3			UAHMS130BV1EC4			UAHMS130BV1EC5		
Power Supply		230V / 1Ph / 50Hz																	
Air Flow Rate	(CMH)	1300	1700	2100	1300	1700	2100	1300	1700	2100	2000	2300	2600	2000	2300	2600	2000	2300	2600
Total Capacity	(kW)	7.00	8.61	10.09	8.07	10.00	11.80	9.12	11.42	13.59	10.66	11.81	12.91	12.34	13.73	15.07	13.98	15.63	17.23
Sensible Capacity	(kW)	5.45	6.78	8.01	6.14	7.70	9.17	6.71	8.50	10.19	8.25	9.18	10.08	9.36	10.47	11.54	10.29	11.56	12.79
External Static Pressure	(Pa)	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50
Unit Dimension	(mm)	600H x 950W x 895D																	
Unit Weight	(kg)	76			80			85			95			100			105		
Sound Pressure Level	(dBA)	42	42	43	43	43	44	44	44	45	45	44	44	46	45	45	47	46	46
Fan Model		K3G355-RR06-G3																	
Motor Capacity	(W)	250																	
Power Input	(W)	156.4	168.1	179.9	172.2	194.0	220.5	183.9	212.3	250.2	254.5	241.1	228.5	287.4	284.5	277.2	310.8	315.0	313.8
Running Ampere	(A)	0.691	0.743	0.795	0.761	0.858	0.974	0.813	0.939	1.110	1.110	1.050	0.996	1.250	1.240	1.210	1.350	1.370	1.370
Fan Speed	(RPM)	1238	1245	1282	1284	1313	1366	1316	1357	1421	1167	1134	1116	1224	1205	1192	1262	1251	1244
Fan Efficiency	W/CMH	0.12	0.10	0.09	0.13	0.11	0.11	0.14	0.12	0.12	0.13	0.10	0.09	0.14	0.12	0.11	0.16	0.14	0.12
Unit Efficiency	kW/RT	0.08	0.07	0.06	0.08	0.07	0.07	0.07	0.07	0.06	0.08	0.07	0.06	0.08	0.07	0.06	0.08	0.07	0.06
Fin per inch & Rows		12 / 03			12 / 04			12 / 05			12 / 03			12 / 04			12 / 05		
Face Area	(m <sup>2</sup> )	0.29																	
Face Velocity	(m/s)	1.26	1.65	2.03	1.26	1.65	2.03	1.26	1.65	2.03	1.62	1.85	2.08	1.62	1.85	2.08	1.62	1.85	2.08
Coil Tube Diameter	(inch)	3 / 8"																	
Coil Material		Cu Tube / Al Fin																	
Coil Medium		Water																	
Air Pressure Drop	(Pa)	37.34	57.37	77.31	58.58	90.00	121.27	73.22	112.50	151.59	56.13	68.15	80.09	88.04	106.91	125.63	110.05	133.63	157.04
Water Flow Rate	(l/s)	0.33	0.41	0.48	0.38	0.48	0.56	0.43	0.54	0.65	0.51	0.56	0.62	0.59	0.65	0.72	0.67	0.75	0.82
Water Pressure Drop	(kPa)	14.80	21.23	28.03	11.52	16.76	22.38	17.62	26.07	35.33	35.42	42.41	49.60	27.60	33.29	39.21	42.45	51.65	61.30
Piping Connection inlet/outlet		BSPT Male Threaded 1/4"																	
Drain Pipe Connection		BSPT Male Threaded 1"																	

Model	Right Piping	UAHMS200BZV1EC3			UAHMS200BZV1EC4			UAHMS200BZV1EC5			UAHMS250BZV1EC3			UAHMS250BZV1EC4			UAHMS250BZV1EC5		
	Left Piping	UAHMS200BY1EC3			UAHMS200BY1EC4			UAHMS200BY1EC5			UAHMS250BY1EC3			UAHMS250BY1EC4			UAHMS250BY1EC5		
Power Supply		400V / 3Ph / 50Hz																	
Air Flow Rate	(CMH)	2900	3600	4300	2900	3600	4300	2900	3600	4300	4500	5300	6100	4500	5300	6100	4500	5300	6100
Total Capacity	(kW)	15.34	18.02	20.53	18.54	21.99	25.25	20.45	24.41	28.18	22.96	25.96	28.79	27.93	31.82	35.52	31.11	35.62	39.57
Sensible Capacity	(kW)	11.97	14.19	16.27	13.88	16.59	19.17	15.02	18.06	20.98	18.06	20.56	22.93	21.04	24.11	27.06	22.91	26.39	29.45
External Static Pressure	(Pa)	200	150	100	200	150	100	200	150	100	200	150	100	200	150	100	200	150	100
Unit Dimension	(mm)	730H x 1230W x 1025D																	
Unit Weight	(kg)	113			121			127			166			174			182		
Sound Pressure Level	(dBA)	49	51	52	50	52	53	51	53	54	50	52	54	51	53	54	52	54	55
Fan Model		K3G450-RK56-05																	
Motor Capacity	(W)	950																	
Power Input	(W)	431.9	473.8	511.7	467.9	534.2	593.7	493.6	570.6	644.1	689.0	728.4	778.8	751.0	815.3	885.1	794.5	876.3	964.1
Running Ampere	(A)	0.696	0.763	0.825	0.754	0.860	0.956	0.795	0.918	1.040	1.090	1.160	1.230	1.190	1.290	1.400	1.260	1.390	1.530
Fan Speed	(RPM)	1167	1196	1255	1208	1248	1316	1236	1283	1352	1053	1085	1134	1090	1125	1181	1114	1152	1212
Fan Efficiency	W/CMH	0.15	0.13	0.12	0.16	0.15	0.14	0.17	0.16	0.15	0.15	0.14	0.13	0.17	0.15	0.15	0.18	0.17	0.16
Unit Efficiency	kW/RT	0.10	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.11	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09
Fin per inch & Rows		12 / 03			12 / 04			12 / 05			12 / 03			12 / 04			12 / 05		
Face Area	(m <sup>2</sup> )	0.55																	
Face Velocity	(m/s)	1.48	1.83	2.17	1.48	1.83	2.17	1.48	1.83	2.17	1.63	1.92	2.21	1.63	1.92	2.21	1.63	1.92	2.21
Coil Tube Diameter	(inch)	3 / 8"																	
Coil Material		Cu Tube / Al Fin																	
Coil Medium		Water																	
Air Pressure Drop	(Pa)	48.74	66.77	84.63	76.45	104.74	132.75	95.56	130.93	165.94	56.73	71.64	86.39	89.00	112.38	135.51	111.24	140.47	169.39
Water Flow Rate	(l/s)	0.73	0.86	0.98	0.88	1.05	1.20	0.97	1.15	1.34	1.09	1.24	1.37	1.33	1.52	1.69	1.48	1.70	1.91
Water Pressure Drop	(kPa)	19.33	25.66	32.29	35.20	47.54	60.69	33.22	45.36	58.44	17.80	22.09	26.52	32.85	41.31	50.18	35.74	45.35	55.52
Piping Connection inlet/outlet		BSPT Male Threaded 1/4"																	
Drain Pipe Connection		BSPT Male Threaded 1"																	

Model	Right Piping	UAHMS350BZV1EC4			UAHMS350BZV1EC5			UAHMS350BZV1EC6			UAHMS500BZV1EC4			UAHMS500BZV1EC5			UAHMS500BZV1EC6		
	Left Piping	UAHMS350BY1EC4			UAHMS350BY1EC5			UAHMS350BY1EC6			UAHMS500BY1EC4			UAHMS500BY1EC5			UAHMS500BY1EC6		
Power Supply		400V / 3Ph / 50Hz																	
Air Flow Rate	(CMH)	6400	7200	8000	6400	7200	8000	6400	7200	8000	7100	8300	9500	7100	8300	9500	7100	8300	9500
Total Capacity	(kW)	39.55	43.44	47.20	43.56	48.00	52.31	46.47	51.33	56.06	43.54	49.47	54.96	47.88	54.64	60.94	51.23	58.65	65.60
Sensible Capacity	(kW)	29.92	33.01	36.02	32.35	35.82	39.20	34.02	37.75	41.41	32.98	37.70	42.10	35.64	40.93	45.89	37.55	43.26	48.65
External Static Pressure	(Pa)	250	200	150	250	200	150	250	200	150	250	200	150	250	200	150	250	200	150
Unit Dimension	(mm)	900H x 1970W x 1205D																	
Unit Weight	(kg)	235			247			262			239			254			268		
Sound Pressure Level	(dBA)	55	56	57	56	57	58	57	58	59	56	57	58	57	58	59	58	59	60
Fan Model		K3G630RA21-75																	
Motor Capacity	(W)	1790																	
Power Input	(W)	1186.0	1184.0	1167.0	1258.0	1270.0	1275.0	1291.0	1315.0	1343.0	1299.0	1379.0	1464.0	1376.0	1489.0	1595.0	1413.0	1553.0	1691.0
Running Ampere	(A)	1.870	1.870	1.840	1.990	2.000	2.010	2.040	2.080										

## SPECIFICATIONS (2)

\* Nominal Return Air Condition: 24.0°CDB / 18.6°CWB  
 \* Nominal Chilled Water Temperature (Inlet/Outlet): 8°C / 15°C

Model	Right Piping			UAHMS90BZV1EC3			UAHMS90BZV1EC4			UAHMS90BZV1EC5			UAHMS130BZV1EC3			UAHMS130BZV1EC4			UAHMS130BZV1EC5		
	Left Piping			UAHMS90BV1EC3			UAHMS90BV1EC4			UAHMS90BV1EC5			UAHMS130BV1EC3			UAHMS130BV1EC4			UAHMS130BV1EC5		
Power Supply				230V / 1Ph / 50Hz									230V / 1Ph / 50Hz								
Air Flow Rate	(CMH)	1300	1700	2100	1300	1700	2100	1300	1700	2100	2000	2300	2600	2000	2300	2600	2000	2300	2600		
Total Capacity	(kW)	2.87	5.05	6.21	3.57	5.48	7.04	5.69	7.65	9.09	6.82	7.49	8.13	8.14	8.98	9.77	9.68	10.74	11.74		
Sensible Capacity	(kW)	2.65	4.12	5.00	3.20	4.52	5.70	4.24	5.58	6.69	5.28	5.85	6.39	6.10	6.78	7.44	6.90	7.71	8.49		
External Static Pressure	(Pa)	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50		
Unit Dimension	(mm)	600H x 950W x 895D									600H x 1050W x 995D										
Unit Weight	(kg)	76			80			85			95			100			105				
Sound Pressure Level	(dBA)	42	42	43	43	43	44	44	44	45	45	44	44	46	45	45	47	46	46		
Fan Model		K3G355-RR06-G3									K3G400-RS03-H4										
Motor Capacity	(W)	250									500										
Power Input	(W)	156.4	168.1	179.9	172.2	194.0	220.5	183.9	212.3	250.2	254.5	241.1	228.5	287.4	284.5	277.2	310.8	315.0	313.8		
Running Ampere	(A)	0.691	0.743	0.795	0.761	0.858	0.974	0.813	0.939	1.110	1.110	1.050	0.996	1.250	1.240	1.210	1.350	1.370	1.370		
Fan Speed	(RPM)	1238	1245	1282	1284	1313	1366	1316	1357	1421	1167	1134	1116	1224	1205	1192	1262	1251	1244		
Fan Efficiency	W/CMH	0.12	0.10	0.09	0.13	0.11	0.11	0.14	0.12	0.12	0.13	0.10	0.09	0.14	0.12	0.11	0.16	0.14	0.12		
Unit Efficiency	kW/RT	0.19	0.12	0.10	0.17	0.12	0.11	0.11	0.10	0.10	0.13	0.11	0.10	0.12	0.11	0.10	0.11	0.10	0.09		
Fin per inch & Rows		12 / 03			12 / 04			12 / 05			12 / 03			12 / 04			12 / 05				
Face Area	(m <sup>2</sup> )	0.29									0.35										
Face Velocity	(m/s)	1.26	1.65	2.03	1.26	1.65	2.03	1.26	1.65	2.03	1.62	1.85	2.08	1.62	1.85	2.08	1.62	1.85	2.08		
Coil Tube Diameter	(inch)	3 / 8"									3 / 8"										
Coil Material		Cu Tube / Al Fin									Cu Tube / Al Fin										
Coil Medium		Water									Water										
Air Pressure Drop	(Pa)	37.34	57.37	77.31	58.58	90.00	121.27	73.22	112.50	151.59	56.13	68.15	80.09	88.04	106.91	125.63	110.05	133.63	157.04		
Water Flow Rate	(l/s)	0.10	0.17	0.21	0.12	0.19	0.24	0.19	0.26	0.31	0.23	0.26	0.28	0.28	0.31	0.33	0.33	0.37	0.40		
Water Pressure Drop	(kPa)	1.23	4.64	6.62	1.14	3.28	5.03	4.35	7.19	9.66	8.95	10.52	12.10	7.39	8.74	10.11	12.34	14.74	17.21		
Piping Connection inlet/outlet		BSPT Male Threaded 1 1/4"									BSPT Male Threaded 2"										
Drain Pipe Connection		BSPT Male Threaded 1"									BSPT Male Threaded 1"										

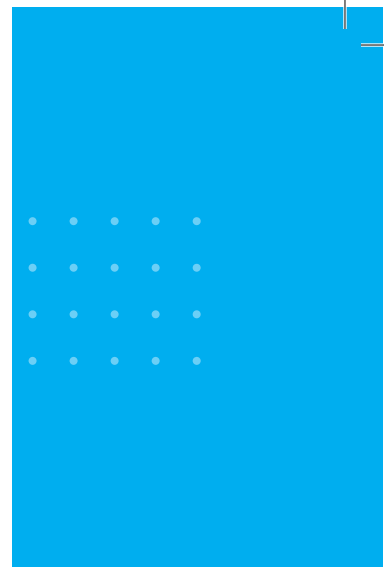
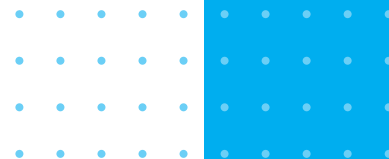
Model	Right Piping			UAHMS200BZV1EC3			UAHMS200BZV1EC4			UAHMS200BZV1EC5			UAHMS250BZV1EC3			UAHMS250BZV1EC4			UAHMS250BZV1EC5		
	Left Piping			UAHMS200BY1EC3			UAHMS200BY1EC4			UAHMS200BY1EC5			UAHMS250BY1EC3			UAHMS250BY1EC4			UAHMS250BY1EC5		
Power Supply				400V / 3Ph / 50Hz									400V / 3Ph / 50Hz								
Air Flow Rate	(CMH)	2900	3600	4300	2900	3600	4300	2900	3600	4300	4500	5300	6100	4500	5300	6100	4500	5300	6100		
Total Capacity	(kW)	8.97	11.24	12.65	12.49	14.62	16.59	14.22	16.74	19.10	13.18	15.93	17.62	18.62	20.99	23.21	21.51	24.37	27.08		
Sensible Capacity	(kW)	7.28	8.94	10.17	9.16	10.86	12.46	10.09	12.04	13.89	10.85	12.82	14.27	13.79	15.71	17.53	15.35	17.56	19.69		
External Static Pressure	(Pa)	200	150	100	200	150	100	200	150	100	200	150	100	200	150	100	200	150	100		
Unit Dimension	(mm)	730H x 1230W x 1025D									730H x 1620W x 1075D										
Unit Weight	(kg)	113			121			127			166			174			182				
Sound Pressure Level	(dBA)	49	51	52	50	52	53	51	53	54	50	52	54	51	53	54	52	54	55		
Fan Model		K3G450-RK56-05									K3G500-RL96-07										
Motor Capacity	(W)	950									1320										
Power Input	(W)	431.9	473.8	511.7	467.9	534.2	593.7	493.6	570.6	644.1	689.0	728.4	778.8	751.0	815.3	885.1	794.5	876.3	964.1		
Running Ampere	(A)	0.696	0.763	0.825	0.754	0.860	0.956	0.795	0.918	1.040	1.090	1.160	1.230	1.190	1.290	1.400	1.260	1.390	1.530		
Fan Speed	(RPM)	1167	1196	1255	1208	1248	1316	1236	1283	1352	1053	1085	1134	1090	1125	1181	1114	1152	1212		
Fan Efficiency	W/CMH	0.15	0.13	0.12	0.16	0.15	0.14	0.17	0.16	0.15	0.15	0.14	0.13	0.17	0.15	0.15	0.18	0.17	0.16		
Unit Efficiency	kW/RT	0.17	0.15	0.14	0.13	0.13	0.13	0.12	0.12	0.12	0.18	0.16	0.16	0.14	0.14	0.13	0.13	0.13	0.13		
Fin per inch & Rows		12 / 03			12 / 04			12 / 05			12 / 03			12 / 04			12 / 05				
Face Area	(m <sup>2</sup> )	0.55									0.77										
Face Velocity	(m/s)	1.48	1.83	2.17	1.48	1.83	2.17	1.48	1.83	2.17	1.63	1.92	2.21	1.63	1.92	2.21	1.63	1.92	2.21		
Coil Tube Diameter	(inch)	3 / 8"									3 / 8"										
Coil Material		Cu Tube / Al Fin									Cu Tube / Al Fin										
Coil Medium		Water									Water										
Air Pressure Drop	(Pa)	48.74	66.77	84.63	76.45	104.74	132.75	95.56	130.93	165.94	56.73	71.64	86.39	89.00	112.38	135.51	111.24	140.47	169.39		
Water Flow Rate	(l/s)	0.31	0.38	0.43	0.43	0.50	0.57	0.48	0.57	0.65	0.45	0.54	0.60	0.63	0.72	0.79	0.73	0.83	0.92		
Water Pressure Drop	(kPa)	4.19	6.18	7.57	9.72	12.76	15.89	9.71	12.87	16.17	3.73	5.17	6.16	8.90	10.94	13.03	10.33	12.81	15.38		
Piping Connection inlet/outlet		BSPT Male Threaded 1 1/4"									BSPT Male Threaded 2"										
Drain Pipe Connection		BSPT Male Threaded 1"									BSPT Male Threaded 1"										

Model	Right Piping			UAHMS350BZV1EC4			UAHMS350BZV1EC5			UAHMS350BZV1EC6			UAHMS500BZV1EC4			UAHMS500BZV1EC5			UAHMS500BZV1EC6		
	Left Piping			UAHMS350BY1EC4			UAHMS350BY1EC5			UAHMS350BY1EC6			UAHMS500BY1EC4			UAHMS500BY1EC5			UAHMS500BY1EC6		
Power Supply				400V / 3Ph / 50Hz									400V / 3Ph / 50Hz								
Air Flow Rate	(CMH)	6400	7200	8000	6400	7200	8000	6400	7200	8000	7100	8300	9500	7100	8300	9500	7100	8300	9500		
Total Capacity	(kW)	26.09	28.54	30.78	27.55	31.38	35.08	28.58	33.64	37.85	28.78	32.34	35.59	31.27	36.66	40.50	32.17	39.27	44.54		
Sensible Capacity	(kW)	19.50	21.45	23.31	20.27	22.91	25.78	21.31	24.51	27.35	21.51	24.43	27.13	23.09	26.92	30.02	23.80	28.43	32.23		
External Static Pressure	(Pa)	250	200	150	250	200	150	250	200	150	250	200	150	250	200	150	250	200	150		
Unit Dimension	(mm)	900H x 1970W x 1205D									900H x 1970W x 1205D										
Unit Weight	(kg)	235			247			262			239			254			268				
Sound Pressure Level	(dBA)	55	56	57	56	57	58	57	58	59	56	57	58	57	58	59	58	59	60		
Fan Model		K3G630RA21-75									K3G630RA21-75										
Motor Capacity	(W)	1790									1790										
Power Input	(W)	1186.0	1184.0	1167.0	1258.0	1270.0	1275.0	1291.0	1315.0	1343.0	1299.0	1379.0	1464.0	1376.0	1489.0	1595.0	1413.0	1553.0	1691.0		
Running Ampere	(A)	1.870	1.870	1.840	1.990	2.000	2.010	2.040	2.080	2.120	2.050	2.180	2.320	2.170	2.350	2.520	2.230	2.450	2.670		
Fan Speed	(RPM)	974.5	968.7	967.2	995.3	993.3	995.3	1005	1006	1012	1002	1023	1051	1023	1048	1080	1033	1063	1100		
Fan Efficiency	W/CMH	0.19	0.16	0.15	0.20	0.18	0.16	0.20	0.18	0.17	0.18	0.17	0.15	0.19	0.18	0.17	0.20	0.19	0.18		
Unit Efficiency	kW/RT	0.16	0.15	0.13	0.16	0.14	0.13	0.16	0.14	0.12	0.16	0.15	0.14	0.15	0.14	0.14	0.15	0.14	0.13		
Fin per inch & Rows		12 / 04			12 / 05			12 / 06			12 / 04			12 / 05			12 / 06				
Face Area	(m <sup>2</sup> )	1.14									1.22										
Face Velocity	(m/s)	1.57	1.76	1.95	1.57	1.76	1.95	1.57	1.76	1.95	1.61	1.89	2.16	1.61	1.89	2.16	1.61	1.89	2.16		
Coil Tube Diameter	(inch)	3 / 8"									3 / 8"										
Coil Material		Cu Tube / Al Fin									Cu Tube / Al Fin										
Coil Medium		Water									Water										
Air Pressure Drop	(Pa)	83.63	99.43	115.15	104.54	124.28	143.94	114.08	137.32	161.51	87.17	109.80	131.56	108.96	137.25	164.45	119.19	153.17	187.75		
Water Flow Rate	(l/s)	0.89	0.97	1.05	0.94	1.07	1.20	0.97	1.15	1.29	0.98	1.10	1.21	1.07	1.25	1.38	1.10	1.34	1.52		
Water Pressure Drop	(kPa)	6.18	7.21	8.23	5.24	6.50	7.47	3.80	5.03	6.18	6.48	7.94	9.38	5.24	6.91	8.21	4.17	5.89	7.34		
Piping Connection inlet/outlet		BSPT Male Threaded 2"									BSPT Male Threaded 2"										
Drain Pipe Connection		BSPT Male Threaded 1"									BSPT Male Threaded 1"										

Note:  
 1) Sound pressure level measured at rated airflow, 1.5m below the unit, with 2m supply duct & 1m return duct. During actual operation, these values are normally somewhat higher as a result of ambient conditions.  
 2) Power input values are based on condition of rated external static pressure

## WIRING CONNECTION TERMINAL

EC FAN TERMINAL		
Fixed voltage output 10 VDC, +1		



**Warning**



- Daikin products are manufactured for export to numerous countries throughout the world. Prior to purchase, please confirm with your local authorised importer, distributor and/or retailer whether this product conforms to the applicable standards, and is suitable for use, in the region where the product will be used. This statement does not purport to exclude, restrict or modify the application of any local legislation.
- Use only those parts and accessories supplied or specified by Daikin.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

**Daikin Airconditioning (Singapore) Pte Ltd**

10 Ang Mo Kio Industrial Park 2, Singapore 569501

Tel: 6583 8888

Website: [www.daikin.com.sg](http://www.daikin.com.sg)

Find us on  [DAIKIN SINGAPORE](#) 



[www.daikin.com.sg](http://www.daikin.com.sg)

SGPCG02A

Specifications, designs and other content appearing in this brochure are current as of February 2021 but subject to change without notice.

©All rights reserved.