



**FCAHG-H / RZAG-M** *SkyAir Alpha-series*

**R-32 BLUEEVOLUTION**

360° air discharge for optimum efficiency and comfort

- > Combinations with Sky Air Alpha series ensures best in class quality, highest efficiency and performance
- > High COP cassette ensures top performance, great savings in energy consumption and a comfortable environment for commercial applications
- > Individual louvre control: flexibility to suit every room layout without changing the location of the unit
- > Modern style decoration panel is available in 4 different variations: white with grey louvers, full white, with black finishing or with Auto Cleaning panel
- > Automatic filter cleaning results in higher efficiency & comfort and lower maintenance costs. 2 filters available: standard filter and finer mesh filter (for fine dust applications i.e. clothing shops)
- > Two optional intelligent sensors improve energy efficiency and comfort
- > No optional adapter needed for DIII-connection, link your unit directly into the wider building management system
- > Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- > Reduced energy consumption thanks to specially developed small tube exchanger, DC fan motor and drain pump
- > Optional fresh air intake
- > Standard drain pump with 675mm lift increases flexibility and installation speed



FCAHG-H



RZAG71

RZAG100-140



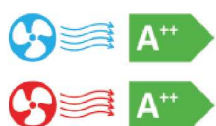
BRC1H519W7



BRC7FA532F (optional)



BRP069B82 (optional)



**WI-FI ADAPTOR**  
AVAILABLE AS AN OPTION



# FCAHG-H / RZAG-M

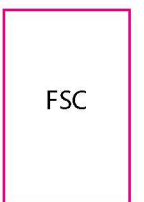
**R-32** BLUEEVOLUTION

Indoor Units			Single Phase				3 Phase			
			FCAHG71H	FCAHG100H	FCAHG125H	FCAHG140H	FCAHG71H	FCAHG100H	FCAHG125H	FCAHG140H
Capacity	UK Total Cooling	kW	7.76	10.80	13.60	14.90	7.76	10.80	13.60	14.90
	UK Sensible Cooling	kW	5.32	7.44	9.30	10.25	5.32	7.44	9.30	10.25
	Nominal Cooling	kW	6.8	9.5	12.1	13.4	6.8	9.5	12.1	13.4
	Nominal Heating	kW	7.5	10.8	13.5	15.5	7.5	10.8	13.5	15.5
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A++	-	-	A++	A++	-	-
	Pdesign	kW	6.8	9.5	12.1	13.4	6.8	9.5	12.1	13.4
	SEER		7.72	7.35	8.02	7.93	7.72	7.35	8.02	7.93
	Annual Energy Consumption	kWh	308	452	905	1014	308	452	905	1014
Seasonal Efficiency (EN14825) HEATING	Energy Label		A++	A++	-	-	A++	A++	-	-
	Pdesign	kW	4.70	9.52	9.52	9.52	4.70	9.52	9.52	9.52
	SCOP		4.61	4.81	4.53	4.44	4.61	4.81	4.53	4.44
	Annual Energy Consumption	kWh	1427	2771	2942	3002	1427	2771	2942	3002
Nominal Efficiency	EER/COP		4.39/4.70	5.06/5.04	4.30/4.47	3.89/4.26	4.39/4.70	5.06/5.04	4.30/4.47	3.89/4.26
Air Flow Rate (Cooling)	High / Nom / Low	m³/sec	0.353/0.278/0.203	0.538/0.428/0.316	0.558/0.445/0.166	0.558/0.455/0.351	0.353/0.278/0.203	0.538/0.428/0.316	0.558/0.445/0.166	0.558/0.455/0.351
Dimensions (with Decoration Panel)	Height	mm	288 (348)	288 (348)	288 (348)	288 (348)	288 (348)	288 (348)	288 (348)	288 (348)
	Width	mm	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)
	Depth	mm	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)
Weight (with Decoration Panel)		kg	25 (30.4)	26 (31.4)	26 (31.4)	26 (31.4)	25 (30.4)	26 (31.4)	26 (31.4)	26 (31.4)
Sound Pressure (Cooling)	High / Nom / Low	dBA	36/33/29	44/39/33	45/40/35	45/41/37	36/33/29	44/39/33	45/40/35	45/41/37
Sound Pressure (Heating)	High / Nom / Low	dBA	36/33/29	44/39/33	45/40/35	45/41/37	36/33/29	44/39/33	45/40/35	45/41/37
Sound Power (Cooling)		dBA	53	61	61	61	53	61	61	61
Outdoor Units			RZAG71MV1	RZAG100MV1	RZAG125MV1	RZAG140MV1	RZAG71MY1	RZAG100MY1	RZAG125MY1	RZAG140MY1
Dimensions	Height x Width x Depth	mm	990 x 940 x 320	1430 x 940 x 320	1430 x 940 x 320	1430 x 940 x 320	990 x 940 x 320	1430 x 940 x 320	1430 x 940 x 320	1430 x 940 x 320
Weight		kg	70	92	92	92	70	92	92	92
Electrical Details	Power Supply		1ph	1ph	1ph	1ph	3ph	3ph	3ph	3ph
	Maximum Input Current (MCA)	A	17.5	27.4	27.5	27.5	10.9	15.4	15.0	15.0
	Max Fuse Size	A	20	32	32	32	16	16	16	16
Interconnection Wiring	Core / Cable Size		3+E / 1.5	3+E / 1.5	3+E / 1.5	3+E / 1.5	3+E / 1.5	3+E / 1.5	3+E / 1.5	3+E / 1.5
Piping Connections	Liquid / Gas	inches (mm)	3/8 (9.5) / 5/8 (15.9)	3/8 (9.5) / 5/8 (15.9)	3/8 (9.5) / 5/8 (15.9)	3/8 (9.5) / 5/8 (15.9)	3/8 (9.5) / 5/8 (15.9)	3/8 (9.5) / 5/8 (15.9)	3/8 (9.5) / 5/8 (15.9)	3/8 (9.5) / 5/8 (15.9)
Pipework	Maximum Length	m	55	85	85	85	55	85	85	85
	Maximum Vertical Rise	m	30	30	30	30	30	30	30	30
	Precharged to	m	40	40	40	40	40	40	40	40
	Additional charge	g/m	Refer to Installation Manual				Refer to Installation Manual			
	Holding charge	kg	2.95	3.75	3.75	3.75	2.95	3.75	3.75	3.75
Sound Pressure (Cooling)	Nom / Night Quiet	dBA	46/42	47/44	50/44	51/44	46/42	47/44	50/44	51/44
Sound Pressure (Heating)	Nom / Night Quiet	dBA	49/42	51/44	52/44	52/44	49/42	51/44	52/44	52/44
Sound Power (Cooling)		dBA	64	66	69	70	65	66	69	70
Operating Range (Cooling)	Min / Max	°CDB	-20/52	-20/52	-20/52	-20/52	-20/52	-20/52	-20/52	-20/52
Operating Range (Heating)	Min / Max	°CWB	-20/18	-20/18	-20/18	-20/18	-20/18	-20/18	-20/18	-20/18
Air Flow Rate (Cooling)	Nominal	m³/sec	0.983	1.166	1.383	1.383	0.983	1.166	1.383	1.383
ECA Eligible			•	•	•	•	•	•	•	•

Accessory Ref	Description
BYCQ140E	Decoration panel - White (Included as standard)
BYCQ140EB	Decoration panel - Black
BRP069B82	Wifi adaptor for connection to on-line controller
BRC1H519W7	New - wired touch screen remote controller - White (Included as standard)
BRC1H519S7	New - wired touch screen remote controller - Silver
BRC1H519K7	New - wired touch screen remote controller - Black
BRC7FA532F	Wireless remote controller
BRYQ140B	Integral PIR sensor for roundflow decoration panel (for white panel)
BRYQ140BR	Integral PIR sensor for roundflow decoration panel (for black panel)
BYCQ140EGF	Auto Cleaning Deco Panel - White
BYCQ140EGFB	Auto Cleaning Deco Panel - Black
BYCQ140EW	Decoration Panel - Full White
EWHAR1	Extension wire - Required if Wifi Adaptor and Auto Cleaning panel are installed together
K.CGL	Condensing unit guard size 100-140
K.CGM	Condensing unit guard size 42-71

Accessory Ref	Description
K.CWB140-2	Condensing unit bracket - size 100 to 140
K.CWB90-2	Condensing unit bracket - up to size 71, max weight 90kg of ODU
K.DT1	Condensate drip tray for use with K.CWB90-2
K.DT2	Condensate drip tray for use with K.CWB140-2
K.RS5	Wireless room mounted temperature sensor and receiver
KDBHQ55B140	Sealing member for air discharge outlet
KDDP55C160-1	Fresh air intake kit for up to 20% fresh air (Part 1)
KDDQ55B140-2	Fresh air intake kit for up to 20% fresh air (Part 2)
KLIC-DI	KNX Interface for Sky Air and VRV systems
KRCS01-1	Remote room mounted temperature sensor
KRP4A53 and UK.FB2	Unit/group adaptor PCB for remote on/off, status indication and temperature setting
RS-SE	Service and configuration tool for K.RSS
RTD-10 and UK.FB2	Enhanced function PCB for Sky Air and VRV. Duty rotation, Lead Lag control and heating interlock
RTD-20 and UK.FB2	Energy control PCB for Sky Air and VRV
RTD-NET and UK.FB2	Modbus interface PCB for Sky Air and VRV

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