

Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

- > Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge
- > Low operation sound level down to 25dBA
- > Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- > Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- > Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- > Multi zoning kit allows multiple individually-controlled climate zones to be served by one indoor unit
- > Optional fresh air intake
- > Flexible installation: air suction direction can be altered from rear to bottom suction and choice between free use or connection to optional suction grilles
- > Standard built-in drain pump with 625mm lift increases flexibility and installation speed



Efficiency data		FBA + RZAG	35A9 + 35A	50A9 + 50A	60A9 + 60A	71A9 + 71NV1	100A + 100NV1	125A + 125NV1	140A + 140NV1	71A9 + 71NY1	100A + 100NY1	125A + 125NY1	140A + 140NY1	
Cooling capacity	Min./Nom./Max.	kW	1.6/3.5/5.0	1.7/5.0/6.0	1.7/6.0/7.0	-/6.80/-	-/9.50/-	-/12.1/-	-/13.4/-	-/6.80/-	-/9.50/-	-/12.1/-	-/13.4/-	
Heating capacity	Min./Nom./Max.	kW	1.40/4.00/5.00	1.70/6.00/6.00	1.70/7.00/7.50	-/7.50/-	-/10.8/-	-/13.5/-	-/15.5/-	-/7.50/-	-/10.8/-	-/13.5/-	-/15.5/-	
Space cooling	Energy efficiency class		A++				-		A++		-			
	Capacity	Pdesign kW	3.50	5.00	6.00	6.80	9.50	12.1	13.4	6.80	9.50	12.1	13.4	
	SEER		6.12	6.30	6.15	6.22	6.47	6.19	6.42	6.22	6.47	6.19	6.42	
	ηs,c	%	-				245		254		-		245	
	Annual energy consumption	kWh/a	200	278	341	382	514	1,173	1,252	382	514	1,173	1,252	
Space heating	Energy efficiency class		A+				-		A+		-			
(Average climate)	Capacity	Pdesign kW	4.20	4.30	4.50	4.70	7.80	9.52		4.70	7.80	9.52		
	SCOP/A		4.10			4.20	4.36	4.12	4.11	4.20	4.36	4.12	4.11	
	ηs,h	%	-				162		161		-		162	
	Annual energy consumption	kWh/a	1,434	1,469	1,537	1,566	2,505	3,235	3,243	1,566	2,505	3,235	3,243	
Indoor unit		FBA	35A9	50A9	60A9	71A9	100A	125A	140A					
Dimensions	Unit	HeightxWidthxDepth	245x700x800			245x1,000x800			245x1,400x800					
Weight	Unit		28.0			35.0			46.0					
Air filter	Type		Resin net											
Fan	Air flow	Cooling	10.5/12.5/15.0			12.5/15.0/18.0			23.0/26.0/29.0		23.5/29.0/34.0			
	rate	Heating	10.5/12.5/15.0			12.5/15.0/18.0			23.0/26.0/29.0		23.5/29.0/34.0			
	External static pressure	Nom./High	30/150			40/150			50/150					
Sound power level	Cooling	dB(A)	60.0			56.0			58.0		62.0			
Sound pressure level	Cooling	Low/High	29.0/35.0			25.0/30.0			30.0/34.0		32.0/37.0			
	Heating	Low/High	29.0/37.0			25.0/31.0			30.0/36.0		32.0/38.0			
Control systems	Infrared remote control		BRC4C65 / BRC4C66											
	Wired remote control		BRC1H519W7/S7/K7 / BRC1E53A/B/C / BRC1D52											
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/60/220-240/220											
Outdoor unit		RZAG	35A	50A	60A	71NV1	100NV1	125NV1	140NV1	71NY1	100NY1	125NY1	140NY1	
Dimensions	Unit	HeightxWidthxDepth	734x870x373				870x1,100x460							
Weight	Unit		52			81	85	95		81	85	94		
Sound power level	Cooling	dB(A)	62.0	63.0	64.0		66	69	70	64	66	69	70	
	Heating	dB(A)	62.0	63.0	64.0	-		68	71	-		68	71	
Sound pressure level	Cooling	Nom.	48.0	49.0	50.0	46	47	49	50	46	47	49	50	
	Heating	Nom.	48.0	49.0	50.0	48	50	52		48	50	52		
Operation range	Cooling	Ambient	Min.~Max.				-20~-52							
	Heating	Ambient	Min.~Max.				-20~24			-20~18				
Refrigerant	Type/GWP		R-32/675.0											
	Charge	kg/TCO2Eq	1.55/1.05		3.20/2.16			3.70/2.50		3.20/2.16		3.70/2.50		
Piping connections	Liquid/Gas	OD	64/9.50		64/12.7			952/15.9						
	Piping length	OU - IU	50		55			85		55		85		
		System	-		75			100		75		100		
		Equivalent	-		-			40						
		Chargeless	-		-			-						
	Additional refrigerant charge	kg/m	0.02 (for piping length exceeding 30m)											
	Level difference	IU - OU	Max. 30.0											
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/220-240						3~/50/380-415					
Current - 50Hz	Maximum fuse amps (MFA)	A	16			20			32			16		

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Slimmest yet most powerful medium static pressure unit on the market

- > Combination with Sky Air advance-series ensures good value for money for all types of commercial applications
- > Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge
- > Low operation sound level down to 25dBA
- > Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- > Possibility to change ESP via wired remote control allows optimisation of the supply air volume



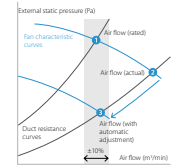
Optimised supply air volume

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within ±10%

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance → the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature.

Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster



Efficiency data			FBA + RZASG	71A9 + 71MV1	100A + 100MV1	125A + 125MV1	140A + 140MV1	100A + 100MY1	125A + 125MY1	140A + 140MY1	
Cooling capacity	Nom.		kW	6.80	9.50	12.1	13.4	9.50	12.1	13.4	
Heating capacity	Nom.		kW	7.50	10.8	13.5	15.5	10.8	13.5	15.5	
Space cooling	Energy efficiency class			A++	A+	-	-	A+	-	-	
	Capacity	Pdesign	kW	6.80	9.50	12.1	13.4	9.50	12.1	13.4	
	SEER			6.19	5.83	5.49	5.81	5.83	5.49	5.81	
	ηs,c		%	-	-	217	229	-	217	229	
	Annual energy consumption		kWh/a	385	570	1,322	1,384	570	1,322	1,384	
Space heating (Average climate)	Energy efficiency class			A+	A	-	-	A	-	-	
	Capacity	Pdesign	kW	4.50	6.00	6.00	7.80	6.00	6.00	7.80	
	SCOP/A			4.01	3.85	3.63	3.85	3.63	3.63	3.85	
	ηs,h		%	-	-	142	151	-	142	151	
	Annual energy consumption		kWh/a	1,571	2,182	2,314	2,836	2,182	2,314	2,836	
Indoor unit			FBA	71A9	100A	125A	140A	100A	125A	140A	
Dimensions	Unit	HeightxWidthxDepth	mm	245x1,000x800		245x1,400x800					
Weight	Unit		kg	35.0		46.0					
Air filter	Type			Resin net							
Fan	Air flow rate	Cooling	Low/Medium/High	m³/min		12.5/15.0/18.0		23.0/26.0/29.0		23.5/29.0/34.0	
		Heating	Low/Medium/High	m³/min		12.5/15.0/18.0		23.0/26.0/29.0		23.5/29.0/34.0	
	External static pressure	Nom./High	Pa	30/150		40/150		50/150		40/150	
Sound power level	Cooling		dBA	56.0		58.0		62.0		58.0	
	Heating	Low/High	dBA	25.0/30.0		30.0/34.0		32.0/37.0		30.0/34.0	
Sound pressure level	Heating	Low/High	dBA	25.0/31.0		30.0/36.0		32.0/38.0		30.0/36.0	
	Control systems	Infrared remote control		BRC4C65 / BRC4C66							
	Wired remote control		BRC1H519W7/S7/K7 / BRC1E53A/B/C / BRC1D52								
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220							
Outdoor unit			RZASG/RZASG	71MV1	100MV1	125MV1	140MV1	100MY1	125MY1	140MY1	
Dimensions	Unit	HeightxWidthxDepth	mm	770x900x320		990x940x320					
Weight	Unit		kg	60		70		78		70	
Sound power level	Cooling		dBA	65		70		71		73	
	Heating		dBA	-		71		73		71	
Sound pressure level	Cooling	Nom.	dBA	46		53		54		53	
	Heating	Nom.	dBA	47		-		57		-	
Operation range	Cooling	Ambient	Min.~Max.	°CDB		-15~46		-15~46		-15~46	
	Heating	Ambient	Min.~Max.	°CWB		-15~15.5		-15~15.5		-15~15.5	
Refrigerant	Type/GWP			R-32/675							
	Charge		kg/TCO2Eq	2.45/1.65		2.60/1.76		2.90/1.96		2.60/1.76	
Piping connections	Liquid/Gas	OD	mm	9.52/15.9							
	Piping length	OU - IU	Max.	m							
		System	Equivalent	m							
			Chargeless	m							
		Additional refrigerant charge		kg/m	See installation manual						
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-240				3~/50/380-415			
Current - 50Hz	Maximum fuse amps (MFA)		A	20		25		32		16	

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Slimmest yet most powerful medium static pressure unit on the market

- › Ideal solution for small businesses and shops
- › Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge
- › Low operation sound level down to 25dBA
- › Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- › Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- › Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- › Multi zoning kit allows multiple individually-controlled climate zones to be served by one indoor unit
- › Reduced energy consumption thanks to specially developed DC fan motor
- › Optional fresh air intake
- › Flexible installation: air suction direction can be altered from rear to bottom suction and choice between free use or connection to optional suction grilles



- › Standard built-in drain pump with 625mm lift increases flexibility and installation speed

Efficiency data		FBA	71A9 / ARXM71N9	100A + AZAS100MV1	125A + AZAS125MV1	140A + AZAS140MV1	100A + AZAS100MY1	125A + AZAS125MY1	140A + AZAS140MY1	
Cooling capacity	Nom.	kW	6.80	9.50	12.1	13.4	9.50	12.1	13.4	
Heating capacity	Nom.	kW	7.50	10.8	13.5	15.5	10.8	13.5	15.5	
Space cooling	Energy efficiency class		A		-		A		-	
	Capacity	Pdesign	kW	6.80	9.50	12.1	13.0	9.50	12.1	13.0
	SEER			5.57	5.25	4.85	5.50	5.25	4.85	5.50
	ηs,c		%	-	-	191	217	-	191	217
Annual energy consumption		kWh/a	427	633	1,497	1,418	633	1,497	1,418	
Space heating (Average climate)	Energy efficiency class		A		-		A		-	
	Capacity	Pdesign	kW	4.50	6.00	7.80	6.00	7.80	6.00	
	SCOP/A			3.81	3.55	3.85	3.81	3.55	3.85	
	ηs,h		%	-	-	139	151	-	139	151
Annual energy consumption		kWh/a	1,652	2,205	2,366	2,836	2,205	2,366	2,836	
Indoor unit		FBA	71A9	100A	125A	140A	100A	125A	140A	
Dimensions	Unit	HeightxWidthxDepth	mm	245x1,000x800		245x1,400x800				
Weight	Unit		kg	35.0	46.0					
Air filter	Type			Resin net						
Fan	Air flow rate	Cooling	Low/Medium/High	m³/min	12.5/15.0/18.0	23.0/26.0/29.0	23.5/29.0/34.0	23.0/26.0/29.0	23.5/29.0/34.0	
		Heating	Low/Medium/High	m³/min	12.5/15.0/18.0	23.0/26.0/29.0	23.5/29.0/34.0	23.0/26.0/29.0	23.5/29.0/34.0	
	External static pressure	Nom./High	Pa	30/150	40/150	50/150	40/150	50/150		
Sound power level	Cooling		dBA	56.0	58.0	62.0	58.0	62.0		
Sound pressure level	Cooling	Low/High	dBA	25.0/30.0	30.0/34.0	32.0/37.0	30.0/34.0	32.0/37.0		
	Heating	Low/High	dBA	25.0/31.0	30.0/36.0	32.0/38.0	30.0/36.0	32.0/38.0		
Control systems	Infrared remote control			BRC4C65 / BRC4C66						
	Wired remote control			BRC1H519W7/S7/K7 / BRC1E53A/B/C / BRC1D52						
Power supply	Phase/Frequency/Voltage	Hz/V		1~/50/60/220-240/220						
Outdoor unit		ARXM71N9	AZAS100MV1	AZAS125MV1	AZAS140MV1	AZAS100MY1	AZAS125MY1	AZAS140MY1		
Dimensions	Unit	HeightxWidthxDepth	mm	734x870x373		990x940x320				
Weight	Unit		kg	50.0	70	78	70	77		
Sound power level	Cooling		dBA	65	70	71	73	73		
	Heating		dBA	65	-	71	73	73		
Sound pressure level	Cooling	Nom.	dBA	52	53	54	53	54		
	Heating	Nom.	dBA	52		57		54		
Operation range	Cooling	Ambient	Min.-Max.	°CDB		-10~46				
	Heating	Ambient	Min.-Max.	°CWB		-15~-18				
Refrigerant	Type/GWP			R-32/675						
	Charge		kg/TCO2Eq	1.15/0.78	2.60/1.76	2.90/1.96	2.60/1.76	2.90/1.96		
Piping connections	Liquid/Gas	OD	mm	9.52/15.9						
	Piping length	OU - IU	Max.	m						
	System	Equivalent	Chargeless	m						
	Additional refrigerant charge		kg/m	0.035 (for piping length exceeding 10m)	See installation manual					
Level difference	IU - OU	Max.	m	20						
Power supply	Phase/Frequency/Voltage	Hz/V		1~/50/220-240			3~/50/380-415			
Current - 50Hz	Maximum fuse amps (MFA)	A		-	25	32		16		

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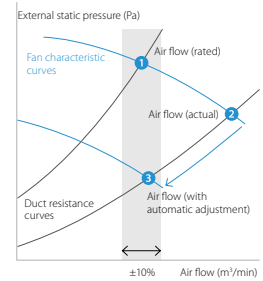


Optimised supply air volume

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within ±10%

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance → the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature. Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically (10 or more fan curves are available on every model), making installation much faster.



Efficiency data		FBA + RXM	35A9 + 35N9	50A9 + 50N9	60A9 + 60N9		
Cooling capacity	Nom.	kW	3.40	5.00	5.70		
Heating capacity	Nom.	kW	4.00	5.50	7.00		
Space cooling	Energy efficiency class		A++				
	Capacity	Pdesign	kW	3.40	5.00	5.70	
	SEER			6.23	6.27	5.91	
	ηs,c		%		-		
Annual energy consumption		kWh/a	191	279	337		
Space heating (Average climate)	Energy efficiency class		A+				
	Capacity	Pdesign	kW	2.90	4.40	4.60	
	SCOP/A			4.07	4.06	4.01	
	ηs,h		%		-		
Annual energy consumption		kWh/a	996	1,517	1,607		
Indoor unit		FBA	35A9	50A9	60A9		
Dimensions	Unit	HeightxWidthxDpeth	mm		245x700x800	245x1,000x800	
Weight	Unit		kg		28.0	35.0	
Air filter	Type		Resin net				
Fan	Air flow rate	Cooling	Low/Medium/High	m³/min		10.5/12.5/15.0	12.5/15.0/18.0
	External static pressure	Heating	Low/Medium/High	m³/min		10.5/12.5/15.0	12.5/15.0/18.0
		Nom./High		Pa		30/150	
Sound power level	Cooling		dBA		60.0	56.0	
Sound pressure level	Cooling	Low/High	dBA		29.0/35.0	25.0/30.0	
	Heating	Low/High	dBA		29.0/37.0	25.0/31.0	
Control systems	Infrared remote control		BRC4C65 / BRC4C66				
	Wired remote control		BRC1H519W7/S7/K7 / BRC1E53A/B/C / BRC1D52				
Power supply	Phase/Frequency/Voltage		Hz/V		1~/50/60/220-240/220		
Outdoor unit		RXM	35N9	50N9	60N9		
Dimensions	Unit	HeightxWidthxDpeth	mm		550x765x285	734x870x373	
Weight	Unit		kg		32	50	
Sound power level	Cooling		dBA		61	63	
	Heating		dBA		61	63	
Sound pressure level	Cooling	Nom.	dBA		49	48	
	Heating	Nom.	dBA		49		
Operation range	Cooling	Ambient	Min.~Max.	°CDB		-10~-50	
	Heating	Ambient	Min.~Max.	°CWB		-20~-24	
Refrigerant	Type		R-32				
	GWP		675				
Piping connections	Charge		kg/CO2Eq		0.76/0.52	1.15/0.78	
	Liquid	OD	mm		6.35		
	Gas	OD	mm		9.52	12.7	
	Piping length	OU - IU	Max. m		20	30	
	System	Chargeless	m		10	-	
	Additional refrigerant charge		kg/m		0.02 (for piping length exceeding 10m)		
	Level difference	IU - OU	Max. m		15	20	
Power supply	Phase/Frequency/Voltage		Hz/V		1~/50/220-240		
Current - 50Hz	Maximum fuse amps (MFA)		A		-		