Sky Air Alpha-series Air Conditioning Technical Data

RZAG-A



EEDEN21

2 Specifications

1 - 1 RZAG-A

Technical Specifications					RZAG35A	RZAG50A	RZAG60A
Casing	Colour				Ivory white		
Dimensions	Unit	Height		mm	734		
		Width		mm	870		
		Depth		mm	373		
	Packed unit	Height		mm	820		
		Width		mm	1,050		
		Depth		mm	480		
Weight	Unit			kg	52		
	Packed unit			kg	57		
Packing	Weight			kg	5		
Heat exchanger	Length			mm	920		
	Rows	Quantity			2		
	Fin pitch			mm	1.40		
	Passes	Quantity			2.2		
	Stages	Quantity			32		
	Tube type				ø7 Hi-XD		
	Fin	Type			Waffle fin (PE)		
Fan	Type				Propeller fan		
	Air flow rate	Cooling	Nom.	m^3/min	55.1		
				cfm	1,947		
		Heating	Nom.	m^3/min	55.1		
				cfm	1,947		
Fan motor	Model				D55F-31		
	Output			W	55		
	Speed	Cooling	High	rpm	780		
			Nom.	rpm	740	780	
			Low	rpm	580	620	640
		Heating	High	rpm	740		
			Nom.	rpm	740		
			Low	rpm	460		
Compressor	Model				2YC40JXD#C		
	Oil Amount			cm^3	650		
	Type				Hermetically sealed swing compressor		
	Output			W	1,300		
	Oil Type				FW68DA		
Sound power level	Cooling			dBA	62.0	63.0	64.0
Sound power level	Heating			dBA	62.0	63.0	64.0
Sound pressure level	Cooling	Nom.		dBA	48.0	49.0	50.0
	Heating	Nom.		dBA	48.0	49.0	50.0
Refrigerant	Type				R-32		
	Charge			kg	1.55		
	Charge			TCO2Eq	1.05		
	GWP				675.0		
Piping connections	Liquid	OD		mm	6.35		
	Gas	OD		mm	9.50	12.7	
	Drain	OD		mm	16		
	Piping length	OU - IU	Max.	m	50		
		System	Chargeless	m	30		
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 30m)		
	Level difference	IU - OU	Max.	m	30.0		
	Heat insulation				Both liquid and gas pipes		
Capacity control	Method				Variable (inverter)		

Standard accessories: Drain plug; Quantity: 1;

Standard accessories: Installation manual; Quantity: 1;

Standard accessories: Refrigerant charge label; Quantity: 1;

Standard accessories: Multilingual fluorinated greenhouse gases labels; Quantity: 1;

Standard accessories: Drain cap (1); Quantity: 6;

Standard accessories: Drain cap (2); Quantity: 3;

Standard accessories: General safety precautions; Quantity: 1;

Standard accessories: LOT10 Energy Label; Quantity: 1;

Electrical Specifications				RZAG35A	RZAG50A	RZAG60A
Power supply	Phase			1~		
	Frequency		Hz	50		
	Voltage		V	220-240		
Wiring connections	For power supply	Remark		Earth wire included		
	For connection with indoor	Remark		Earth wire included		

See separate drawing for operation range |
See separate drawing for electrical data |

2 Specifications

1 - 1 RZAG-A

Contains fluorinated greenhouse gases

Technical specifications				FCAG35B + RZAG35A	FCAG50B + RZAG35A	FCAG50B + RZAG50A	FCAG60B + RZAG50A	FCAG60B + RZAG60A	FCAG71B + RZAG60A
Cooling capacity	Min.		kW	1.6		1.7			
	Min.		Btu/h	5,500.0		5,800.0			
	Min.		kcal/h	1,376.0		1,462.0			
	Nom.		kW	3.5		5.0		6.0	
	Nom.		Btu/h	11,900.0		17,100.0		20,500.0	
	Nom.		kcal/h	3,009.0		4,299.0		5,159.0	
	Max.		kW	4.5		6.0		6.5	
	Max.		Btu/h	15,400.0		20,500.0		22,200.0	
	Max.		kcal/h	3,869.0		5,159.0		5,589.0	
Heating capacity	Min.		kW	1.40		1.50		1.60	
	Min.		Btu/h	4,800.0		5,100.0		5,500.0	
	Min.		kcal/h	1,200.0		1,290.0	1,300.0	1,380.0	1,400.0
	Nom.		kW	4.00		5.80		7.00	
	Nom.		Btu/h	13,700.0	13,600.0	19,800.0		23,900.0	
	Nom.		kcal/h	3,439.0		4,987.0		6,019.0	
	Max.		kW	5.00		6.00		7.50	
	Max.		Btu/h	17,000.0	17,100.0	20,500.0		25,600.0	
	Max.		kcal/h	4,299.0		5,159.0		6,449.0	
Power input	Cooling	Nom.	kW	0.80	0.77	1.28	1.26	1.76	1.58
	Heating	Nom.	kW	0.93	0.91	1.56	1.55	2.06	1.98
Nominal efficiency	EER			4.40	4.57	3.90	3.98	3.40	3.79
	COP			4.30	4.41	3.71	3.75	3.40	3.53
	Annual energy consumption		kWh	398	383	641	628	882	792
	Energy labeling Directive	Cooling		A					
		Heating		A				C	B
Space cooling	Energy efficiency class			A++					
	Capacity	Pdesign	kW	3.50		5.00		6.00	
	SEER			7.30	7.40	6.80	6.93	6.60	6.82
	Annual energy consumption		kWh/a	168	166	257	252	318	308
Space heating (Average climate)	Energy efficiency class			A+					
	Capacity	Pdesign	kW	3.30		4.30		4.60	
	SCOP/A			4.30	4.41	4.30	4.35	4.25	4.39
	SCOPnet/A			4.34	4.45	4.34	4.39	4.29	4.43
	Pdh Heating capacity at -10°		kW	2.91		3.68	3.73	3.96	4.00
	Annual energy consumption		kWh/a	1,074	1,048	1,398	1,384	1,515	1,467
	Required back up heating cap at design conditions		kW	0.39		0.62	0.57	0.64	0.60
Space cooling	A	Pdc	kW	3.50		5.00		6.00	
	Condition (35°C - 27/19)	EERd		4.40	4.57	3.90	3.98	3.40	3.79
		Power input	kW	0.80	0.77	1.28	1.26	1.76	1.58
	B	Pdc	kW	2.58		3.68		4.42	
	Condition (30°C - 27/19)	EERd		7.04	6.92	5.82	5.95	5.74	5.92
		Power input	kW	0.37		0.63	0.62	0.77	0.75
	C	Pdc	kW	1.50	1.87	2.37		2.84	
	Condition (25°C - 27/19)	EERd		9.98	10.74	8.41	8.54	7.65	7.89
		Power input	kW	0.15	0.17	0.28		0.37	0.36
	D	Pdc	kW	1.59	1.85		1.88		1.92
	Condition (20°C - 27/19)	EERd		13.20	13.42	12.89	13.30	12.82	12.98
		Power input	kW	0.12	0.14			0.15	