

2. SPECIFICATIONS

2-1. Specification

Unit model		Indoor		RAS-B10N4KVRG-E		RAS-B13N4KVRG-E	
		Outdoor		RAS-10J2AVSG-E1		RAS-13J2AVSG-E1	
Cooling capacity		(kW)		2.50		3.50	
Cooling capacity range		(kW)		0.89-3.20		1.00-4.10	
Heating capacity		(kW)		3.20		4.20	
Heating capacity range		(kW)		0.90-4.7		1.00-5.30	
Power supply				1Ph/220-240V/50Hz			
Electric characteristic	Indoor	Operation mode		Cooling	Heating	Cooling	Heating
		Running current (A)		0.25-0.23	0.25-0.23	0.28-0.26	0.28-0.26
		Power consumption (W)		35	35	40	40
		Power factor (%)		63	63	65	65
	Outdoor	Operation mode		Cooling	Heating	Cooling	Heating
		Running current (A)		2.57-2.35	3.30-3.02	4.23-3.86	4.92-4.54
		Power consumption (W)		505	705	760	1040
		Power factor (%)		87	95	82	96
Starting current (A)		2.82-2.58	3.55-3.25	4.51-4.12	5.20-4.80		
COP (Cooling / Heating)				4.63/4.32		4.38/3.89	
Operating noise	Indoor	High	(Cooling / Heating) (dB-A)	41/41		43/43	
		Medium	(Cooling / Heating) (dB-A)	31/31		34/34	
		Low	(Cooling / Heating) (dB-A)	22/22		23/23	
	Outdoor (Cooling / Heating) (dB-A)		44/46		46/48		
Indoor unit	Unit model		RAS-B10N4KVRG-E		RAS-B13N4KVRG-E		
	Dimension	Height (mm)	300		300		
		Width (mm)	987		987		
		Depth (mm)	210		210		
	Net weight (kg)		11		11		
	Fan motor output (W)		30		30		
Air flow rate (Cooling / Heating) (m ³ / hr.)		600/610		670/680			
Outdoor unit	Unit model		RAS-10J2AVSG-E1		RAS-13J2AVSG-E1		
	Dimension	Height (mm)	550		550		
		Width (mm)	780		780		
		Depth (mm)	290		290		
	Net weight (kg)		26		30		
	Compressor	Motor output (W)		550		620	
		Type		Single rotary type with DC-inverter variable speed control			
		Model		KSK75D43UEZA		KSK89D53UFZ	
	Fan motor output (W)		43				
Air flow rate (Cooling / Heating) (m ³ / hr.)		1890/1890		1950/1950			
Piping connection	Type		Flare connection				
	Indoor unit	Liquid side (mm)	Ø6.35				
		Gas side (mm)	Ø9.52				
	Outdoor unit	Liquid side (mm)	Ø6.35				
		Gas side (mm)	Ø9.52				
	Maximum length (m)		20				
	Maximum charge-less length (m)		15				
Maximum height difference (m)		12					
Refrigerant Name of refrigerant		R32					
Weight (kg)		0.55		0.80			
Wiring connection	Power supply		3 Wires: Includes earth (Outdoor)				
	Interconnection		4 Wires: Includes earth				
Usable temperature range	Indoor (Cooling / Heating) (°C)	21-32/ -28					
	Outdoor (Cooling / Heating) (°C)	-15,46/-15,24					
Accessory	Indoor unit	Installation plate		1			
		Wireless remote controller		1			
		Batteries		2			
		Remote controller holder		1			
		Toshiba Ultra pure filter		2			
		Mounting screw		10(Ø4x25L)			
		Remote controller holder Flat head wood screw		2(Ø3.1x16L)			
		Installation manual		1			
		Owner's manual		1			

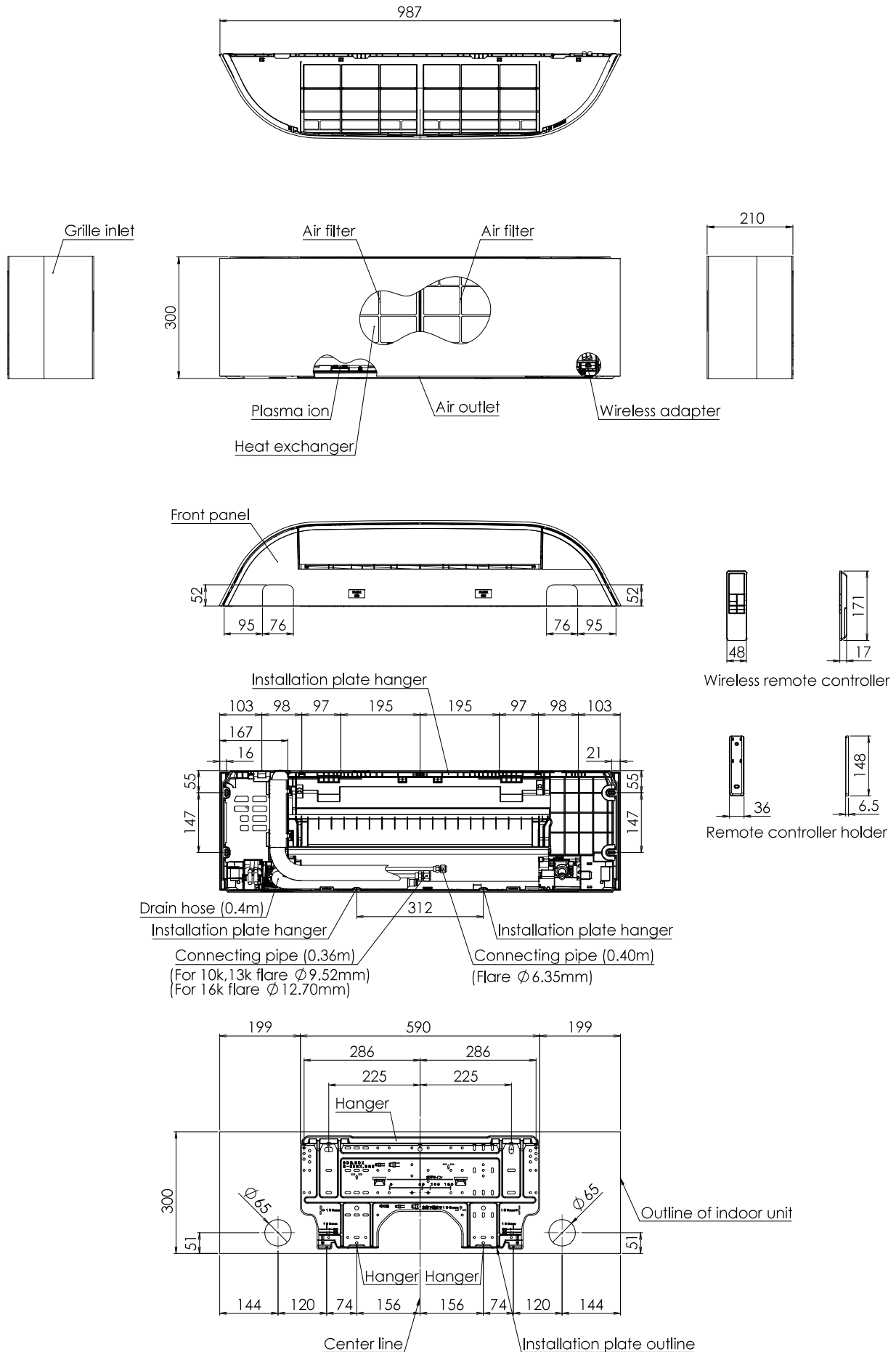
* The specification may be subject to change without notice for purpose of improvement.

Unit model	Indoor		RAS-B16N4KVRG-E			
	Outdoor		RAS-16J2AVSG-E1			
Cooling capacity			(kW)	4.60		
Cooling capacity range			(kW)	1.20-5.30		
Heating capacity			(kW)	5.50		
Heating capacity range			(kW)	1.10-6.30		
Power supply	1Ph/220-240V/50Hz					
Electric characteristic	Indoor	Operation mode		Cooling	Heating	
		Running current	(A)	0.31-0.29	0.31-0.29	
		Power consumption	(W)	45	45	
		Power factor	(%)	65	65	
	Outdoor	Operation mode		Cooling	Heating	
		Running current	(A)	6.14-5.91	7.04-6.46	
		Power consumption	(W)	1305	1475	
		Power factor	(%)	92	96	
Starting current	(A)	6.72-6.20	7.35-6.75			
COP (Cooling / Heating)		3.41/3.62				
Operating noise	Indoor	High	(Cooling / Heating)	(dB-A)	45/45	
		Medium	(Cooling / Heating)	(dB-A)	36/36	
		Low	(Cooling / Heating)	(dB-A)	25/26	
	Outdoor	(Cooling / Heating)		(dB-A)	48/50	
Indoor unit	Unit model		RAS-B16N4KVRG-E			
	Dimension	Height	(mm)	300		
		Width	(mm)	987		
		Depth	(mm)	210		
	Net weight			(kg)	12	
	Fan motor output			(W)	30	
Air flow rate	(Cooling / Heating)		(m ³ / hr.)	690/730		
Outdoor unit	Unit model		RAS-16J2AVSG-E1			
	Dimension	Height	(mm)	550		
		Width	(mm)	780		
		Depth	(mm)	290		
	Net weight			(kg)	33	
	Compressor	Motor output			(W)	890
		Type	Single rotary type with DC-inverter variable speed control			
		Model	KSN108D22UFZ			
Fan motor output			(W)	43		
Air flow rate	(Cooling / Heating)		(m ³ / hr.)	2040/2040		
Piping connection	Type		Flare connection			
	Indoor unit	Liquid side	(mm)	∅6.35		
		Gas side	(mm)	∅12.70		
	Outdoor unit	Liquid side	(mm)	∅6.35		
		Gas side	(mm)	∅12.70		
	Maximum length			(m)	20	
	Maximum charge-less length			(m)	15	
Maximum height difference			(m)	12		
Refrigerant	Name of refrigerant		R32			
	Weight		(kg)		0.80	
Wiring connection	Power supply		3 Wires: Includes earth (Outdoor)			
	Interconnection		4 Wires: Includes earth			
Usable temperature range	Indoor	(Cooling / Heating)	(°C)	21-32/ -28		
	Outdoor	(Cooling / Heating)	(°C)	-15,46/-15,24		
Accessory	Indoor unit	Installation plate			1	
		Wireless remote controller			1	
		Batteries			2	
		Remote controller holder			1	
		Toshiba Ultra pure filter			2	
		Mounting screw			10(∅4x25L)	
		Remote controller holder			2(∅3.1x16L)	
		Flat head wood screw			2(∅3.1x16L)	
		Installation manual			1	
Owner's manual			1			

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4. CONSTRUCTION VIEWS

4-1. Indoor Unit



4-2. Outdoor Unit

(Unit : mm)

