

# **TOSHIBA**

## **SERVICE MANUAL**

FILE NO. SVM-01010

# **AIR-CONDITIONER**

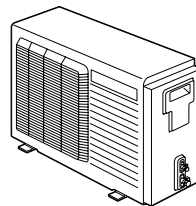
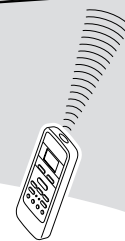
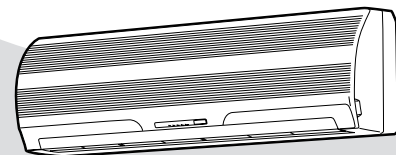
**SPLIT WALL TYPE**

***RAS-24UKX / RAS-24UAX***

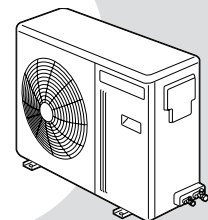
***RAS-24UK-AR / RAS-24UA-AR***

***RAS-18UKX / RAS-18UAX***

***RAS-18UK-AR / RAS-18UA-AR***



**18 Class**



**24 Class**

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- 2-4 Outdoor Unit (RAS-18UAX, RAS-18UA-AR)

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- 3-1 RAS-24UKX / RAS-24UAX  
RAS-24UK-AR / RAS-24UA-AR
- 3-2 RAS-18UKX / RAS-18UAX  
RAS-18UK-AR / RAS-18UA-AR

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- 4-2 Outdoor Unit (RAS-24UAX, RAS-24UA-AR)
- 4-3 Outdoor Unit (RAS-18UAX, RAS-18UA-AR)

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RAS-24UK-AR / RAS-24UA-AR
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- 11-4 Outdoor Unit (RAS-18UAX)
- 11-5 Outdoor Unit (RAS-18UA-AR)

## 1. SPECIFICATIONS

ITEM	MODEL	RAS-24UKX/24UAX		RAS-24UK-AR/24UA-AR		RAS-18UKX/18UAX		RAS-18UK-AR/18UA-AR	
		Cooling		Cooling		Cooling		Cooling	
Capacity	kW	220V	240V	220V	240V	220V	240V	220V	240V
		6.40	6.45	6.40	6.45	5.20	5.25	5.20	5.25
Power source	Phase	1Ø							
	V	220-240							
	Hz	50							
Power consumption	W	2350	2440	2350	2440	1870	1950	1920	2040
Power factor	%	96	91	96	91	95	88	95	88
Running current	Indoor /Outdoor	220V	240V	220V	240V	220V	240V	220V	240V
	A	0.3/10.9	0.3/10.8	0.3/10.9	0.3/10.8	0.2/8.75	0.2/9.0	0.2/9.0	0.2/9.5
Starting current	A	50				40			
Moisture removal	lit/h	2.7				2			
Noise	Indoor (H/M/L)	45/41/37				42/39/35			
	Outdoor (220-240V)	56-57				51	52	52	53
Refrigerant	Name of refrigerant	R22							
	Rated amount	1.63		1.06		1.17			
Refrigerant control		Capillary tube							
Interconnection pipe	Gas side size	Ø 15.88				Ø 12.7			
	Connection type	Flare connection							
	Liquid side size	Ø 6.35							
	Connection type	Flare connection							
	Maximum length (One way)	15*1				25*2			
	Maximum height difference	10				8			
INDOOR UNIT		RAS-24UKX		RAS-24UK-AR		RAS-18UKX		RAS-18UK-AR	
Dimensions	Height	298							
	Width	998							
	Depth	208							
Net weight	kg	12							
Evaporator type		Finned tube							
Indoor fan type		Cross flow fan							
Air volume	High fan	950				750			
	Medium fan	750				650			
	Low fan	600				530			
Fan motor output	W	30							
Air filter		Honeycomb woven filter with PP frame							
OUTDOOR UNIT		RAS-24UAX		RAS-24UA-AR		RAS-18UAX		RAS-18UA-AR	
Dimensions	Height	690				538			
	Width	880				830			
	Depth	310				300			
Net weight	kg	65		65		50		54	
Condenser type		Finned tube							
Outdoor fan type		Propeller fan							
Airflow volume	m³/h	3380	3560	3380	3560	1830	2010	2105	2310
Fan motor output	W	65		65		42		65	
Compressor	Model	PH280X3-4MS				PH250X3-4LM			
	Output	2000				1500			
Safety device		IOL							
Louver type		Automatic louver							
Usable outdoor temperature range	°C	15 ~ 43		15 ~ 52		15 ~ 43		15 ~ 52	

**Note : 1**

- Capacity is based on the following temperature conditions.

Temperature \ Condition		JIS C9612-1994
		Cooling
Indoor unit inlet air temperature	(DB)	27 °C
	(WB)	19 °C
Outdoor unit inlet air temperature	(DB)	35 °C
	(WB)	24 °C

**Note : 2**

- Charge refrigerant according to the table below.

	Refrigerant	RAS-24UKX/24UAX RAS-24UK-AR/24UA-AR	RAS-18UKX/18UAX RAS-18UK-AR/18UA-AR
*1	No need to charge refrigerant	15m or less	15m or less
*2	Need to charge refrigerant	Over 15m up to 25m (20g/m)	Over 15m up to 20m (20g/m)