

TOSHIBA

SERVICE MANUAL

FILE NO. SVM-02005

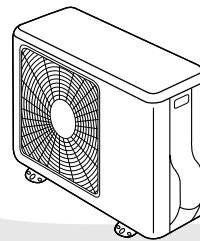
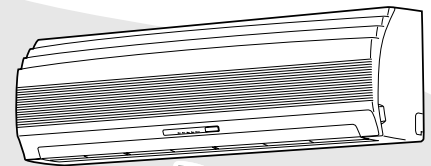
AIR-CONDITIONER

SPLIT WALL TYPE

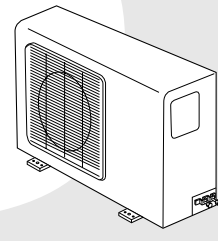
RAS-13UKP-ES / RAS-13UA-ES

RAS-10UKP-ES / RAS-10UA-ES

RAS-07UKP-ES / RAS-07UA-ES



07 Class



10/13 Class

Apr., 2002

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- This air conditioner is charged with HFC (R-410A) that doesn't deplete the Ozone layer.
- This air conditioner requires special installation for the refrigerant R-410A.

1. SPECIFICATIONS

ITEM	MODEL		RAS-13UKP-ES RAS-13UA-ES		RAS-10UKP-ES RAS-10UA-ES		RAS-07UKP-ES RAS-07UA-ES	
	Cooling							
Capacity	kW	220V	240V	220V	240V	220V	240V	
		3.70	3.75	2.65	2.70	2.15	2.18	
Power source	Phase	1 \emptyset						
	V	220 – 240						
	Hz	50						
Power consumption	kW	1.25	1.29	0.77	0.83	0.66	0.68	
Power factor	%	98	95	92	92	97	90	
Running current	Indoor	0.15						
	Outdoor	A	5.66	5.53	3.65	3.60	2.95	3.00
Starting current	A	24		16		12		
Moisture removal	lit/h	2.0		1.2		0.8		
Noise	Indoor (H/M/L)	41/35/31		39/33/26		38/32/26		
	Outdoor (220-240V)	dB	46	47	46	47	44	45
Refrigerant	Name of refrigerant	R-410A						
	Rated amount	kg	0.86		0.65		0.65	
Refrigerant control	Capillary tube							
Interconnection pipe	Gas side size	mm	\emptyset 9.52					
	Connection type	Flare connection						
	Liquid side size	mm	\emptyset 6.35					
	Connection type	Flare connection						
	Maximum length (One way)	m	15*1		10*1			
	Maximum height difference	m	6		5			
INDOOR UNIT			RAS-13UKP-ES		RAS-10UKP-ES		RAS-07UKP-ES	
Dimensions	Height	mm	275					
	Width	mm	790					
	Depth	mm	208					
Net weight	kg	10						
Evaporator type	Finned tube							
Indoor fan type	Cross flow fan							
Air volume	High fan	m ³ /h	630		630		570	
	Medium fan	m ³ /h	550		490		460	
	Low fan	m ³ /h	460		370		340	
Fan motor output	W	30						
Air filter	Honeycomb woven filter with PP frame							
OUTDOOR UNIT			RAS-13UA-ES		RAS-10UA-ES		RAS-07UA-ES	
Dimensions	Height	mm	538		530		530	
	Width	mm	780		770		660	
	Depth	mm	300		200		240	
Net weight	kg	39		29		27		
Condenser type	Finned tube							
Outdoor fan type	Propeller fan							
Airflow volume	m ³ /h	1700	1900	1500	1700	1420	1520	
Fan motor output	W	30						
Compressor	Model	PA150X2T-4FM		PA98X1T-4FZ		PA79X1T-4FZ5		
	Output	W	1100		750		605	
Safety device	Fuse, Overload relay							
Louver type	Automatic louver							
Usable outdoor temperature range	°C	21 ~ 43						

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-13UKP-ES / RAS-13UA-ES	RAS-10UKP-ES / RAS-10UA-ES RAS-07UKP-ES / RAS-07UA-ES
*1	No need to charge refrigerant	15m or less	10m or less