

4. SPECIFICATION OF ELECTRICAL PARTS

4-1. Indoor Unit (RAS-13UKH-E, RAS-10UKH-E, RAS-07UKH-E)

No.	Parts name	Type	Specifications
1	Fan motor (for indoor)	MMF-240-20-4A-1	AC Motor with 135°C thermo fuse
2	Thermo sensor (TA-sensor)	————	10kΩ at 25°C
3	Switching transformer (T01)	SWT-47	
4	Microcontroller unit (IC30)	TMP87CM40AN	
5	Heat exchanger sensor (TC-sensor)	————	10kΩ at 25°C
6	Line filter (L01)	LC*SS11V-06270	27mH, 600mA
7	Bridge rectifier (DB01)	D3SBA60	4A, 600V
8	Capacitor (C02)	KMH400VSSN47M22S	47μF, 400V
9	Fuse (F01)	TSCR6.3A	T6.3A, 250VAC
10	Varistor (R21, R22)	15G561K	560V
11	Resistor (R01)	RF-2TK5R6	5.6Ω, 2W
12	Louver motor	MP24GA	12VDC
13	Relay (Comp., RY01)	DI12D1	Rating 20A/AC250V, 12VDC
14	Relay (Fan, RY03)	G5N-1A	Rating 3A/AC250V, 12VDC
15	Relay (Solenoid, RY04)	G5N-1A	Rating 3A/AC250V, 12VDC

4-2. Outdoor Unit (RAS-13UAH-E)

No.	Parts name	Type	Specifications
1	Compressor	PH170T2-4L2	Output (Rated) 1100W, 2poles, 1 phase, 220 – 240V, 50Hz
			Winding resistance (Ω) (at 20°C)
2	Fan motor (for outdoor)	HF-240-42B	Output (Rated) 42W, 6poles, 1 phase, 220 – 240V, 50/60Hz
			Winding resistance (Ω) (at 20°C)
3	Running capacitor (for fan motor)	SK-50FMP1.5U2	AC 500V, 1.5μF
4	Running capacitor (for compressor)	DS371356CPNB	AC 370V, 35μF
5	Overload relay	JMRA99257-9200	U/T: 8.0A (80°C), OPEN: 145±5°C, CLOSE: 75±11°C
6	Solenoid coil (for 4-way valve)	LB6409	AC 220 – 240V

4-3. Outdoor Unit (RAS-10UAH-E)

No.	Parts name	Type	Specifications		
1	Compressor	PH120T1-4C	Output (Rated) 750W, 2poles, 1 phase, 220 – 240V, 50Hz		
			Winding resistance (Ω) (at 20°C)	C-R 4.53	C-S 8.73
2	Fan motor (for outdoor)	HF-240-20B	Output (Rated) 20W, 6poles, 1 phase, 220 – 240V, 50/60Hz		
			Winding resistance (Ω) (at 20°C)	Red-Black 387.3	White-Black 466.2
3	Running capacitor (for fan motor)	SK-50FMP1.5U2	AC 500V, 1.5 μ F		
4	Running capacitor (for compressor)	DS371256CPNB	AC 370V, 25 μ F		
5	Overload relay	JMRA99269-9200	U/T: 6.8A (90°C), OPEN: 135 \pm 5°C, CLOSE: 69 \pm 11°C		
6	Solenoid coil (for 4-way valve)	LB6409	AC 220 – 240V		

4-4. Indoor Unit (RAS-13UKP-HX, RAS-10UKP-HX, RAS-13UK-E, RAS-10UK-E, RAS-07UK-E)

No.	Parts name	Type	Specifications
1	Fan motor (for indoor)	MMF-240-20-4A-1	AC Motor with 135°C thermo fuse
2	Thermo sensor (TA-sensor)	————	10k Ω at 25°C
3	Switching transformer (T01)	SWT-47	
4	Microcontroller unit (IC30)	TMP87CM40AN	
5	Heat exchanger sensor (TC-sensor)	————	10k Ω at 25°C
6	Line filter (L01)	LC*SS11V-06270	27mH, 600mA
7	Bridge rectifier (DB01)	D3SBA60	4A, 600V
8	Capacitor (C02)	KMH400VSSN47M22S	47 μ F, 400V
9	Fuse (F01)	TSCR6.3A	T6.3A, 250VAC
10	Varistor (R21, R22)	15G561K	560V
11	Resistor (R01)	RF-2TK5R6	5.6 Ω , 2W
12	Louver motor	MP24GA	12VDC
13	Relay (Comp., RY01)	DI12D1	Rating 20A/AC250V, 12VDC

4-5. Outdoor Unit (RAS-13UA-HX)

No.	Parts name	Type	Specifications		
1	Compressor	RM5515FNE96	Output (Rated) 1100W, 2poles, 1 phase, 220V, 50Hz		
			Winding resistance (Ω) (at 20°C)	C-R	C-S
				2.159	3.899
2	Fan motor (for outdoor)	HF-240-42B	Output (Rated) 42W, 6poles, 1 phase, 220 – 240V, 50/60Hz		
			Winding resistance (Ω) (at 20°C)	Red-Black	White-Black
				176.2	290.5
3	Running capacitor (for fan motor)	SK-45FMP02U2	AC 450V, 2.0 μ F		
4	Running capacitor (for compressor)	DS371306CPNB	AC 370V, 30 μ F		
5	Overload relay	LAAO00A	U/T: 9.0A (80°C), OPEN: 135 \pm 5°C, CLOSE: 75 \pm 11°C		

4-6. Outdoor Unit (RAS-10UA-HX)

No.	Parts name	Type	Specifications		
1	Compressor	RM5510GNE94	Output (Rated) 800W, 2poles, 1 phase, 220V, 50Hz		
			Winding resistance (Ω) (at 20°C)	C-R	C-S
				3.710	4.099
2	Fan motor (for outdoor)	HF-240-30B	Output (Rated) 30W, 6poles, 1 phase, 220 – 240V, 50Hz		
			Winding resistance (Ω) (at 20°C)	Red-Black	White-Black
				245.0	388.0
3	Running capacitor (for fan motor)	SK-50FMP1.5U2	AC 500V, 1.5 μ F		
4	Running capacitor (for compressor)	DS371256CPNB	AC 370V, 25 μ F		
5	Overload relay	LPAP960B	U/T: 6.1A (80°C), OPEN: 135 \pm 5°C, CLOSE: 78 \pm 11°C		

4-7. Outdoor Unit (RAS-13UA-E)

No.	Parts name	Type	Specifications		
1	Compressor	PH160T2-4L2	Output (Rated) 1100W, 2poles, 1 phase, 220 – 240V, 50Hz		
			Winding resistance (Ω) (at 20°C)	C-R	C-S
				2.43	3.78
2	Fan motor (for outdoor)	HF-240-30B	Output (Rated) 30W, 6poles, 1 phase, 220 – 240V, 50/60Hz		
			Winding resistance (Ω) (at 20°C)	Red-Black	White-Black
				245	388
3	Running capacitor (for fan motor)	SK-50FMP1.5U2	AC 500V, 1.5 μ F		
4	Running capacitor (for compressor)	DS371356CPNB	AC 370V, 35 μ F		
5	Overload relay	LAAO00A	U/T: 9.0A (80°C), OPEN: 135 \pm 5°C, CLOSE: 75 \pm 11°C		

4-8. Outdoor Unit (RAS-10UA-E)

No.	Parts name	Type	Specifications		
1	Compressor	2PS146D5AB02	Output (Rated) 750W, 2poles, 1 phase, 220 – 240V, 50Hz		
			Winding resistance (Ω) (at 20°C)	C-R	C-S
				3.60	4.87
2	Fan motor (for outdoor)	HF-240-20B	Output (Rated) 20W, 6poles, 1 phase, 220 – 240V, 50Hz		
			Winding resistance (Ω) (at 20°C)	Red-Black	White-Black
				387.3	466.2
3	Running capacitor (for fan motor)	SK-50FMP1.5U2	AC 500V, 1.5 μ F		
4	Running capacitor (for compressor)	DS371256CPNB	AC 370V, 25 μ F		
5	Overload relay	LPAP960B	U/T: 6.1A (80°C), OPEN: 135 \pm 5°C, CLOSE: 78 \pm 11°C		