

Comfee

CF-CHR "Chiaro"



Easy installation



4 Steps
72% quicker

vs

7 Steps

The Easier Solution for Fan Motor Replacement NEW

- 1 Remove the Front Frame (1min)
- 2 Remove the Electronic Control Box (1min)
- 3 Take Away the Motor Bracket (1min)
- 4 Pull Out the Fan Motor (20s)

3min 20s

Previous AC Evaporator Must be Removed

- 1 Turn On the AC (35s)
- 2 Recycle Refrigerant (2min)
- 3 Remove the ACC from the Unit (5min)
- 4 Remove the Front Frame (1min)
- 5 Turn Off the Electronic Control Box (1min)
- 6 Remove the Evaporator (2min)
- 7 Pull Out the Fan Motor (1min)

12min

5 Steps
Improved process

vs

8 Steps

The Easier Solution for PCB Replacement NEW

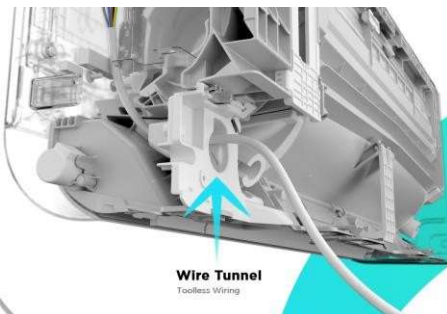
- 1 Open the Front Panel
- 2 Remove ONE Screw from the Electronic Control Box
- 3 Take Away the Electronic Control Box Cover
- 4 Remove Wire Terminals
- 5 Pull Out the PCB

Ordinary AC Entire frame had to be removed

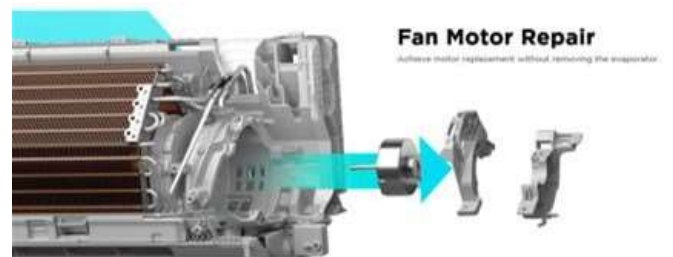
- 1 Open the Front Panel
- 2 Remove Screws from the Frame
- 3 Unlock & Back/Mid/Slider Locks
- 4 Remove the Front Frame
- 5 Remove Screws from the Electronic Control Box
- 6 Take Away the Electronic Control Box Cover
- 7 Remove Wire Terminals
- 8 Pull Out the PCB

Wire Tunnel

Easier Wiring



Wire Tunnel
Toolless Wiring



Fan Motor Repair

Achieve motor replacement without replacing the evaporator.



Pull-out PCB Design

Achieve PCB replacement without removing panel frame.

Model			MSGPAU-09HRFN8-QRD1GW	MSGPBU-12HRFN8-QRD1GW[N]	MSGPCU-18HRFN8-QRD1GW	
Indoor			MSGPAU-09HRFN8-QRD1GW	MSGPBU-12HRFN8-QRD1GW[N]	MSGPCU-18HRFN8-QRD1GW	
Outdoor			MOX130-09HFN8-QRD1GW	MOX130-12HFN8-QRD2GW	MOX330-18HFN8-QRD1GW	
Code			22022010025477	22022010025837	22022010025457	
Indoor code			22022011026301	22022011026721	22022011026281	
Outdoor code			22022016025680	22022016025720	22022016025660	
Power supply		Ph-V-Hz	220-240V, 1Ph, 50Hz	220-240V, 1Ph, 50Hz	220-240V, 1Ph, 50Hz	
Rated Cooling	Capacity	kW	2.6(1.1-3.2)	3.2(1.1-3.92)	5.2(1.8-5.9)	
		kW	0.82(0.08-1.26)	0.99(0.08-1.45)	1.60(0.14-2.10)	
		A	3.8(0.8-5.6)	4.33(0.80-6.40)	7.1(0.6-9.3)	
EER		w/w	3.23	3.24	3.25	
Rated Heating	Capacity	kW	2.93(0.83-3.60)	3.4(1.08-4.16)	5.40(1.30-6.10)	
		kW	0.79(0.14-1.16)	0.91(0.17-1.35)	1.39(0.22-1.70)	
		A	3.7(1.2-5.2)	3.99(1.40-6.00)	6.1(0.9-7.6)	
COP		w/w	3.71	3.74	3.88	
Seasonal Cooling	Pdesignc	kW	2.6	3.2	5.2	
		SEER	7.0	7.1	7.4	
		Energy Efficiency Class	A++	A++	A++	
Heating(Average)	Pdesignh	kW	2.3	2.8	4.1	
		SCOP	4.1	4.1	4.1	
		Energy Efficiency Class	A+	A+	A+	
Heating(Warmer)	Tbiv	°C	-7	-7	-7	
		Pdesignh	kW	2.5	3.0	4.6
		SCOP	W/W	5.1	5.2	5.1
Tot	Energy Efficiency Class		A+++	A+++	A+++	
		Tbiv	°C	2	2	2
			°C	-20	-20	-20
Moisture Removal		L/h	1.1	1.2	2.0	
Max. input consumption		W	2200	2,200	2800	
Max. current		A	10.0	10.0	13	
Compressor	Model		KSN98D13UEZ32	KSN98D13UEZ32	KSN140D33UFZB3	
	Type		ROTARY	ROTARY	ROTARY	
	Brand		GMCC	GMCC	GMCC	
	Capacity	W	3050	1915/3050±3%	4350	
	Input	W	800	310/800±3%	1127	
	Rated current(RLA)	A	4.95	2.35/4.95±3%	6.9	
Refrigerant oil/oil charge	ml	POE VG74 280±10ml	POE VG74 280±10ml	ESTER OIL VG74 420±10ml		
Indoor fan motor	Model		ZKFN-34-10-1L	ZKFN-34-10-1L	ZKFN-35-10-18L	
	Indoor Motor Qty		1	1	1	
Indoor coil	Speed(Hi/Mi/Lo)	r/min	1150/990/910	1100/940/860	1000/868/802	
	a.Number of rows		1	2	2	
	b.Tubepitch(a)x row pitch(b)	mm	18x17.3	19.5x11.6	19.5x11.6	
	c.Fin spacing	mm	1.3	1.3	1.3	
	d.Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	
	e.Tube outside dia.and type	mm	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ5,Inner groove tube	
	f.Coil length x height x width	mm	530x72x17.3+530x108x17.3+530x108x17.3	620x72x17.3+620x117x23.2+620x108x17.3	770x195x23.2+770x117x23.2	
g.Number of circuits		2	3	4		
Indoor air flow (Hi/Mi/Lo/Si)	m3/h	510/380/300/140	600/420/340/170	800/600/470/340		
Indoor noise level (Hi/Mi/Lo/Si)	dB(A)	38.5/33.0/23.5/19.0	39.5/34/24/20	43.0/35.5/33.5/20.0		
Indoor sound power level	dB(A)	54	56	58		
Indoor unit	Dimension(W*D*H)	mm	723x199x286	813x201x289	975x218x308	
	Packing (W*D*H)	mm	780x270x365	870x270x365	1035x295x385	
	Net/Gross weight	Kg	7.0/9.2	7.575/9.975	10.3/13.3	
Outdoor fan motor	Model		ZKFN-25-10-6L	ZKFN-25-10-6L	ZKFN-34-10-1L-1	
	Speed	r/min	800/700/600	800/700/600	830/700/650	
	a.Number of rows		1.0	1.0	2.0	
	b.Tubepitch(a)x row pitch(b)	mm	18x17.3	21x22	18x17.3	
	c.Fin spacing	mm	1.3	1.3	1.3	
	d.Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	
	e.Tube outside dia.and type	mm	Φ5,Inner groove tube	Φ7,Inner groove tube	Φ5,Inner groove tube	
f.Coil length x height x width	mm	695x468x17.3	740x462x22	870x504x34.6		
g.Number of circuits		2	2	2		
Outdoor air flow	m3/h	1750	1750	2100		
Outdoor sound pressure level	dB(A)	54.5	55.0	57.5		
Outdoor sound power level	dB(A)	62	64	65		
Outdoor unit	Dimension(W*D*H)	mm	720x270x495	720x270x495	805x330x554	
	Packing (W*D*H)	mm	835x300x540	835x300x540	915x370x615	
	Net/Gross weight	Kg	20.4/22.3	21.1/23	29.8/32.3	
Refrigerant	Type		R32	R32	R32	
	GWP		675	675	675	
	Charged quantity	Kg	0.46	0.58	0.80	
Design pressure		MPa	4.3 / 1.7	4.3 / 1.7	4.3 / 1.7	
	Liquid side/ Gas side	mm(inch)	6.35mm(1/4in) / 9.52mm(3/8in)	6.35mm(1/4in) / 9.52mm(3/8in)	6.35mm(1/4in) / 12.7mm(1/2in)	
Refrigerant piping	Max. refrigerant pipe length	m	25	25	30	
	Max. difference in level	m	10	10	20	
Connection wiring			1.5x5	1.5x5	1.5x5	
Plug type			no plug	no plug	no plug	
Thermostat type			Remote Control	Remote Control	Remote Control	
Room temperature	Indoor(cooling/ heating)	°C	16~32/ 0~30	16~32/ 0~30	16~32/ 0~30	
	Outdoor(cooling/heating)	°C	-15~50 / -20~24	-15~50 / -20~24	-15~50 / -20~24	
Application area (Cooling Standard)	m²		17-18	16-23	24-35	
Qty'per 20' / 40' /40HQ			140/287/320	132/280/305	86/182/208	