

## R410A Series (Cooling only)



### Specification

Model			MCCU-22CN1	MCCU-28CN1	MCCU-35CN1	MCCU-45CN1	
Power supply		-	380-415V~, 3Ph, 50Hz	380-415V~, 3Ph, 50Hz	380-400V~, 3Ph, 50Hz	380-415V~, 3Ph, 50Hz	
Ambient temperature range		-	17°C~52°C	17°C~52°C	17°C~52°C	17°C~46°C	
Cooling	Capacity	W	22,000	28,000	35,000	45,000	
	Input	W	7,586	9,590	12,623	17,600	
Refrigerant (Type / Charged)		g	R410A / 5,400	R410A / 6,000	R410A / 7,200	R410A / 10,000	
Compressor	Model	-	ZP90KCE-TFD-522	ZP120KCE-TFD-522	SH140A4ALC	E605DH-59D2YG	
	Quantity	-	1	1	1	3	
Fan motor model (×Quantity)		-	YDK210-6A (×2)	YDK400-4C (×2)	YDK400-4C (×2)	YDK380-4D (×2)	
Noise level		dB(A)	65	67	69	70	
Coil	Type	-	Copper tube and aluminum fin				
	Tube size	mm	Φ7.94	Φ7	Φ7	Φ7.94	
Refrigerant pipe		Liquid/Gas	mm	Φ9.53/Φ22	Φ9.53/Φ25	Φ12.7/Φ28.6	Φ16/Φ32
Dimension (W×H×D)		mm	1,255×908×700	1,255×908×700	1,255×908×700	1,250×1,615×765	
Packing (W×H×D)		mm	1,320×1,060×730	1,320×1,060×730	1,320×1,060×730	1,310×1,780×825	
Net/Gross weight		kg	171/190	185/202	199/215	288/308	
Connection kit (Optional)			CCU-05N1(C)	CCU-06N1(C)	CCU-07N1(C)	CCU-08N1(C)	
Therm. EXP. valve	Model / Qty.	-	TGEL6.5 / 1	TGEL9 / 1	TGEL13 / 1	TGEL13 / 1	
Drier filter	Model / Qty.	-	DML083s / 1	DML164s / 1	DML164s / 1	DML165s / 1	
Sight glass	Model / Qty.	-	SGN+10s / 1	SGN+12s / 1	SGN+12s / 1	SGNP 16sl / 1	
Solenoid valve	Model / Qty.	-	EVR6 / 1	EVR10 / 1	EVR10 / 1	EVRH15 / 1	
Solenoid valve coil	Model / Qty.	-	018F6905 / 1	018F6905 / 1	018F6905 / 1	018F6905 / 1	
Packing (W×H×D)		mm	400×290×215	400×290×215	400×290×215	400×215×290	

Model			MCCU-53CN1	MCCU-61CN1	MCCU-70CN1	MCCU-105CN1	
Power supply		-	380-400V~, 3Ph, 50Hz	380-400V~, 3Ph, 50Hz	380-400V~, 3Ph, 50Hz	380-400V~, 3Ph, 50Hz	
Ambient temperature range		-	17°C~46°C	17°C~46°C	17°C~46°C	17°C~46°C	
Cooling	Capacity	W	53,000	61,000	70,000	105,000	
	Input	W	16,800	19,000	22,000	28,000	
Refrigerant (Type / Charged)		g	R410A / 11,000	R410A / 12,400	R410A / 17,000	R410A / 18,000	
Compressor	Model	-	SH105A4ALC	SH120A4ALC	SH140A4ALC	SH184A4ALC	
	Quantity	-	2	2	2	2	
Fan motor model (×Quantity)		-	YS600-6P (×2)	YS1100-6 (×2)	YS1100-6 (×2)	YS1500-6 (×2)	
Noise level		dB(A)	73	76	76	78	
Coil	Type	-	Copper tube and aluminum fin				
	Tube size	mm	Φ7.94	Φ7.94	Φ7.94	Φ7	
Refrigerant pipe		Liquid/Gas	mm	Φ12.7/Φ25 (×2)	Φ12.7/Φ25 (×2)	Φ12.7/Φ25 (×2)	Φ12.7/Φ25 (×2)
Dimension (W×H×D)		mm	1,825×1,245×899	1,825×1,245×899	2,158×1,260×1,082	2,158×1,670×1,082	
Packing (W×H×D)		mm	1,844×1,272×924	1,844×1,272×924	2,168×1,275×1,105	2,168×1,686×1,105	
Net/Gross weight		kg	395/405	395/405	508/523	570/582	
Connection kit (Optional)			CCU-13N1(C)	CCU-13N1(C)	CCU-14N1(C)	CCU-15N1(C)	
Therm. EXP. valve	Model / Qty.	-	TGEL9 / 2	TGEL9 / 2	TGEL13 067N3177 / 2	TGEL15 067N3159 / 2	
Drier filter	Model / Qty.	-	DML305 / 2	DML305 / 2	DML305FS / 2	DML305FS / 2	
Sight glass	Model / Qty.	-	SGP 12SN / 2	SGP 12SN / 2	SGP 12SN / 2	SGP 16SN / 2	
Solenoid valve	Model / Qty.	-	EVR10 / 2	EVR10 / 2	EVR10 / 2	EVR10 / 2	
Solenoid valve coil	Model / Qty.	-	018F6251 / 2	018F6251 / 2	018F6251 / 2	018F6251 / 2	
Packing (W×H×D)		mm	290×265×226	290×265×226	290×265×226	290×265×226	



GD Midea Heating & Ventilating Equipment Co., Ltd.  
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GD Midea Heating & Ventilating Equipment Co., Ltd.  
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Certificate of Occupational Health and Safety Management System  
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Note: The data in this book may be changed without notice for further improvement  
on quality and performance.

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### COMMERCIAL AIR CONDITIONERS

## Compressor Condensing Unit (R407C / R410A)



## High efficiency compressor

- High efficiency rotary & scroll compressor.
- Models below 7.1kW adopt rotary compressor.
- Models above 7.1kW adopt scroll compressor.
- Compressor with thermal protector that prevents motor overheating.
- Compact size and light weight, simple design.



Rotary compressor

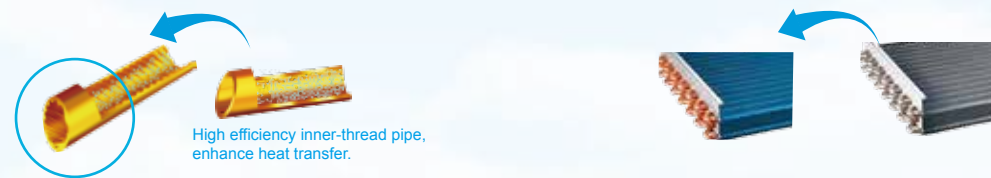
Scroll compressor

## Direct drive motor

- Direct drive, less wear parts, higher efficiency.
- High anti-corrosion aluminum blades, double direct-drive motors.
- (Available for top-discharge type)



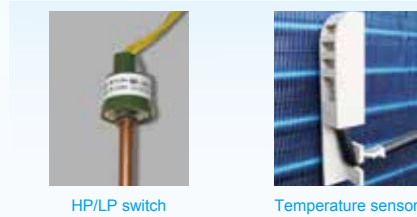
## High performance heat exchanger



High efficiency inner-thread pipe, enhance heat transfer.

- The heat-exchanger fins are coated with anti-corrosive and hydrophilic layers to assure longer coil life and save maintenance cost.
- Inner grooved copper pipe enhance heat exchange efficiency.

## High reliability



HP/LP switch

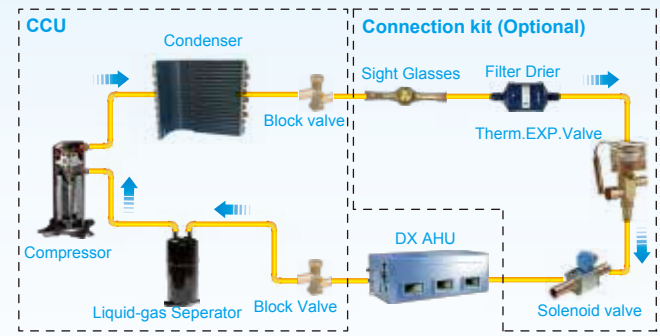
Temperature sensor

Multi-measurements to ensure units operate normally and reliably.

- Self-diagnosis function (Available for units >7.1kW)
- Phase fault protection (Available for 3Ph units)
- High/Low pressure switch protection (Available for units >7.1kW)
- Temperature sensor on/off protection.

## Simple refrigerant system, easy installation & maintenance

- Refrigerant system, without water frozen damage during winter time.
- No need anti-freezing fluid to reduce installation and maintenance cost.
- Connection kits is optional:
- Sight glass
- Drier filter
- Therm. EXP valve,
- Solenoid valve & solenoid valve coil.



	Nominal test condition (Temperature)			
	Outdoor condition		Indoor condition	
	DB (°C)	WB (°C)	DB (°C)	WB (°C)
Cooling	27	19	27	19

## R407c Series (Cooling only)



7kW

10kW/14kW

16kW

22kW/28kW

34kW

45kW

## Specification

Model		MCCU-7CN2	MCCU-10CN2	MCCU-14CN2	MCCU-16CN2
Power supply	-	220-240V~, 1Ph, 50Hz	380V~, 3Ph, 50Hz	380V~, 3Ph, 50Hz	380V~, 3Ph, 50Hz
Ambient temperature range	-	18°C~45°C	18°C~45°C	18°C~45°C	18°C~45°C
Cooling	Capacity	W	7,000	10,000	14,000
	Input	W	3,133	4,333	5,500
Refrigerant (Type / Charged)	g	R407c / 1,530	R407c / 2,700	R407c / 1,700	R407c / 2,900
Compressor	Model	-	PG480*3CS-4MU1	C-SBN303H8A	C-SBN373H8A
	Quantity	-	1	1	1
Fan motor model (×Quantity)	-	YDK53-6H (×1)	YDK250-6D (×1)	YDK250-6D (×1)	YDK65-6F-1 (×2)
Noise level	dB(A)	47	49	50	52
Coil	Type	-	Copper tube and aluminum fin		
	Tube size	mm	Φ9.52	Φ9.52	Φ9.52
Refrigerant pipe	Liquid/Gas	mm	Φ9.53/Φ15.9	Φ12.7/Φ19	Φ9.53/Φ19
Dimension (W×H×D)	mm	895×862×313	990×966×354	990×966×354	900×1,167×340
Packing (W×H×D)	mm	1,043×915×395	1,120×1,100×435	1,120×1,100×435	1,032×1,307×443
Net/Gross weight	kg	59.6/63.5	99/104	88/95	94/102
Connection kit (Optional)		CCU-01N2(C)	CCU-01N2(C)	CCU-02N2(C)	CCU-03N2(C)
Therm. EXP. valve	Model / Qty.	-	TGEZ2.5 / 1	TGEZ2.5 / 1	TGEZ3.5 / 1
Drier filter	Model / Qty.	-	DTG63016-33C / 1	DTG63016-33C / 1	DTG63016-44C / 1
Sight glass	Model / Qty.	-	SGN+10s / 1	SGN+10s / 1	SGN+12s / 1
Solenoid valve	Model / Qty.	-	EVR6 / 1	EVR6 / 1	EVR10 / 1
Solenoid valve coil	Model / Qty.	-	018F6251 / 1	018F6251 / 1	018F6251 / 1
Packing (W×H×D)	mm	340×215×190	340×215×190	340×215×190	340×215×190

Model		MCCU-22CN2	MCCU-28CN2	MCCU-35CN2	MCCU-45CN2
Power supply	-	380V~, 3Ph, 50Hz	380V~, 3Ph, 50Hz	380V~, 3Ph, 50Hz	380V~, 3Ph, 50Hz
Ambient temperature range	-	18°C~45°C	18°C~45°C	18°C~45°C	18°C~45°C
Cooling	Capacity	W	22,000	28,000	34,000
	Input	W	8,250	10,000	13,100
Refrigerant (Type / Quantity)	g	R407c / 6,200	R407c / 6,500	R407c / 10,000	R407c / 12,000
Compressor	Model	-	G403DH-64D2Y-X10J1	G503DH-83D2Y-X10J1	603DH-95D2Y-X10
	Quantity	-	2	2	2
Fan motor model (×Quantity)	-	YDK210-6A (×2)	YDK210-6A (×2)	YDK400-4C (×2)	YDK450-6A (×2)
Noise level	dB(A)	61	61	65	63
Coil	Type	-	Copper tube and aluminum fin		
	Tube size	mm	Φ7.94	Φ7.94	Φ7.94
Refrigerant pipe	Liquid/Gas	mm	Φ12.7/Φ22 (Φ25, L≥30m)	Φ12.7/Φ25 (Φ28, L≥30m)	Φ15.9/Φ35 (Φ25, L≥30m)
Dimension (W×H×D)	mm	1,255×908×700	1,255×908×700	1,255×908×700	1,380×1,630×830
Packing (W×H×D)	mm	1,320×1,060×715	1,320×1,060×715	1,320×1,060×715	1,434×1,790×860
Net/Gross weight	kg	161/194	177/192	193/208	356/382
Connection kit (Optional)		CCU-04N2(C)	CCU-04N2(C)	CCU-08N2(C)	CCU-05N2(C)
Therm. EXP. valve	Model / Qty.	-	TGEZ7 / 1	TGEZ10 / 1	TGEZ12 / 1
Drier filter	Model / Qty.	-	DTG63016-44C / 1	DTG63016-44C / 1	GZGLQ-DML165S / 1
Sight glass	Model / Qty.	-	SGN+12s / 1	SGN+12s / 1	SGP 16sN / 1
Solenoid valve	Model / Qty.	-	EVR10 / 1	EVR10 / 1	EVR10-5/8-032F1214 / 1
Solenoid valve coil	Model / Qty.	-	018F6251 / 1	018F6251 / 1	018F6251 / 1
Packing (W×H×D)	mm	340×215×190	340×215×190	400×215×290	340×215×190

## R410A Series (Cooling only)



3.2kW

5.3kW

7.1kW

9kW

10.5kW

14kW/16kW

## Specification

Model		MCCU-3CN1	MCCU-5CN1	MCCU-7CN1	MCCU-9CN1
Power supply	-	220-240V~, 1Ph, 50Hz	220-240V~, 1Ph, 50Hz	220-240V~, 1Ph, 50Hz	380-415V~, 3Ph, 50Hz
Ambient temperature range	-	18°C~43°C	18°C~43°C	18°C~43°C	18°C~43°C
Cooling	Capacity	W	3,200	5,300	7,100
	Input	W	1,300	2,050	2,700
Refrigerant (Type / Charged)	g	R410A / 800	R410A / 860	R410A / 1,350	R410A / 2,200
Compressor	Model	-	PA140G1C-4FT1	PA225M2CS-4KU2	PA290G2CS-4MU1
	Quantity	-	1	1	1
Fan motor model (×Quantity)	-	YDK24-6F(B) (×1)	YDK48-6H (×1)	YDK53-6C (×1)	YDK75-6C (×1)
Noise level	dB(A)	54.1	59.3	59.3	60.8
Coil	Type	-	Copper tube and aluminum fin		
	Tube size	mm	Φ7	Φ5	Φ5
Refrigerant pipe	Liquid/Gas	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.53/Φ16
Dimension (W×H×D)	mm	780×547×250	762×593×282	842×695×324	895×862×313
Packing (W×H×D)	mm	895×570×320	872×630×340	950×740×380	1,028×900×380
Net/Gross weight	kg	27.5/29.5	35.5/37.5	47.5/49.5	80/83
Connection kit (Optional)		CCU-10N1(C)	CCU-11N1(C)	CCU-01N1(C)	CCU-12N1(C)
Therm. EXP. valve	Model / Qty.	-	BAE1.5 ZW195 / 1	BAE1.5 ZW195 / 1	BAE2 ZW195 / 1
Drier filter	Model / Qty.	-	DML032s / 1	DML032s / 1	DML033s / 1
Sight glass	Model / Qty.	-	SGP 6sN / 1	SGP 6sN / 1	SGP 10sN / 1
Solenoid valve	Model / Qty.	-	EVR3 / 1	EVR3 / 1	EVR3 / 1
Solenoid valve coil	Model / Qty.	-	DCFQX-018F6905 / 1	DCFQX-018F6905 / 1	DCFQX-018F6905 / 1
Packing (W×H×D)	mm	400×215×290	400×215×290	400×215×290	400×215×290

Model		MCCU-10CN1	MCCU-14CN1	MCCU-16CN1
Power supply	-	380-415V~, 3Ph, 50Hz	380-415V~, 3Ph, 50Hz	380-415V~, 3Ph, 50Hz
Ambient temperature range	-	18°C~43°C	18°C~43°C	18°C~43°C
Cooling	Capacity	W	10,500	14,000
	Input	W	4,000	5,200
Refrigerant (Type / Charged)	g	R410A / 2,500	R410A / 3,000	R410A / 3,050
Compressor	Model	-	C-SBN303H8D	C-SBN373H8D
	Quantity	-	1	1
Fan motor model (×Quantity)	-	YDK190-6D(B) (×1)	YDK65-6F(B) (×2)	YDK65-6F(B) (×2)
Noise level	dB(A)	63.2	62.9	62.4
Coil	Type	-	Copper tube and aluminum fin	
	Tube size	mm	Φ7	Φ7
Refrigerant pipe	Liquid/Gas	mm	Φ9.53/Φ19	Φ9.53/Φ19
Dimension (W×H×D)	mm	990×966×354	900×1,167×340	900×1,167×340
Packing (W×H×D)	mm	1,105×985×420	1,017×1,195×428	1,017×1,195×428
Net/Gross weight	kg	83/93	94/105	95/107
Connection kit (Optional)		CCU-02N1(C)	CCU-03N1(C)	CCU-04N1(C)
Therm. EXP. valve	Model / Qty.	-	BAE3 ZW195 / 1	TGEL4.5 / 1
Drier filter	Model / Qty.	-	DML033s / 1	DML053S / 1
Sight glass	Model / Qty.	-	SGP 10sN / 1	SGP 10sN / 1
Solenoid valve	Model / Qty.	-	EVR6 / 1	EVR6 / 1
Solenoid valve coil	Model / Qty.	-	DCFQX-018F6905 / 1	DCFQX-018F6905 / 1
Packing (W×H×D)	mm	400×215×290	400×215×290	400×215×290