



ON/OFF Light Commercial Universal Outdoor Unit



9K/12K/18K Btu/h



24K Btu/h



36K Btu/h



48k/60k Btu/h

Features:

- 1 World famous scroll compressor with quick reactivity, stronger power and operation stable. Anti-attenuation design and better low-temperature heating performance.



- 2 Brand-new outdoor unit design, multi-direction piping connection meet different requirement, convenient installation.



- 3 Low ambient kit for optional, operation temperature can be down to -15°C in cooling mode.

- 4 For 24-60K Btu/h, use RS485 weak voltage communication method. Universal type, 2/3 core shield wire is used for communication wire, there is no need special training for installation workers.



- 5 For 36-60K Btu/h cooling only type, Panasonic compressor is standard, and Highly compressor is for optional.

Panasonic **HIGHLY**

- 6 Additional PCB installed in indoor part for optional, which can realize remote ON/OFF and group control. One group controller can connect max 64 systems.



R410A Heating Pump

Outdoor unit			COU-12HR1	COU-18HR1	COU-24HR1	COU-36HR1	COU-36HSR1	COU-48HR1	COU-60HR1
Power supply		V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50	220~240/1/50	380~415/3/50	380~415/3/50	380~415/3/50
Capacity									
Cooling	Capacity	Btu/h	12000	18000	24000	36000	36000	48000	60000
		KW	3.5	5.3	7.1	10.5	10.5	14	16
	Input	W	1320	1900	2400	3710	3800	5000	5700
	Rated current	A	6.1	8.26	10.6	16.7	6.9	8.2	10
Heating	Capacity	Btu/h	13200	20000	26000	39000	39000	52000	60000
		KW	3.8	5.9	7.7	11.5	11.5	15.2	16
	Input	W	1220	1690	2100	3310	3600	5100	5800
	Rated current	A	5.6	7.35	9.2	15	6.5	8.4	10.2
Physical data									
Max. input consumption		W	1300	2500	2700	4800	4900	6000	6600
Max. current		A	8.7	12.6	13.2	21.2	10.3	10.5	11.8
Starting current		A	40	40	49	112	48	66	70
Compressor	Type		Rotary	Rotary	Rotary	Scroll	Scroll	Scroll	Scroll
	Brand		Hitachi	Hitachi	Hitachi	Panasonic	Panasonic	Panasonic	Panasonic
Outdoor air flow		m ³ /h	2800	2800	3800	6000	6000	6100	6100
Outdoor noise level		dB(A)	53	53	58	65	65	60	60
Dimension(WxHxD)		mm	866×535×304	866×535×304	930×700×370	1070×995×400	1070×995×400	911×1335×400	911×1335×400
Packing dimension(WxHxD)		mm	920×585×335	920×585×335	990×770×410	1145×1120×475	1145×1120×475	964×1445×402	964×1445×402
Net/Gross weight		kg	33/35	41/43	52/56	92/100	92/100	99/110	99/110
Refrigerant type/quantity		g	R410A/1000	R410A/1200	R410A/1800	R410A/2100	R410A/2100	R410A/3600	R410A/4000
Design pressure		MPa	4.0/1.2	4.0/1.2	4.0/1.2	4.0/1.2	4.0/1.2	4.0/1.2	4.0/1.2
Piping data									
Liquid side/Gas side		mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.52/Φ15.88	Φ9.52/Φ19.05	Φ9.52/Φ19.05	Φ9.52/Φ19.05	Φ9.52/Φ19.05
Max. pipe length		m	20	20	20	20	20	20	20
Max. high drop		m	10	10	10	10	10	10	10

R410A Cooling Only

Outdoor unit			COU-18CR1	COU-24CR1	COU-36CR1	COU-36CSR1	COU-48CSR1	COU-60CSR1
Power supply		V/Ph/Hz	220~240/1/50	220~240/1/50	220~240/1/50	380~415/3/50	380~415/3/50	380~415/3/50
Capacity								
Cooling	Capacity	Btu/h	18000	24000	36000	36000	48000	60000
		KW	5.3	7.1	10.5	10.5	14	16
	Input	W	1900	2400	3710	3800	5000	5700
	Rated current	A	8.26	10.6	16.7	6.9	8.2	10
Physical data								
Max. input consumption		W	2500	2700	4800	4900	6000	6600
Max. current		A	11.36	13.2	21.2	10.3	10.5	11.8
Starting current		A	40	49	112	48	66	70
Compressor	Type		Rotary	Rotary	Scroll/Rotary	Scroll/Rotary	Scroll/Rotary	Scroll/Rotary
	Brand		Highly	Highly	Panasonic/Highly	Panasonic/Highly	Panasonic/Highly	Panasonic/Highly
Outdoor air flow		m ³ /h	2800	3800	6000	6000	6100	6100
Outdoor noise level		dB(A)	53	58	65	65	60	60
Dimension(WxHxD)		mm	866×535×304	930×700×370	1070×995×400	1070×995×400	911×1335×400	911×1335×400
Packing dimension(WxHxD)		mm	920×585×335	990×770×410	1145×1120×475	1145×1120×475	964×1445×402	964×1445×402
Net/Gross weight		kg	39/41	58/61	92/100	92/100	88/99	88/99
Refrigerant type/quantity		g	R410A/1250	R410A/1800	R410A/2100	R410A/2100	R410A/3600	R410A/3600
Design pressure		MPa	4.0/1.2	4.0/1.2	4.0/1.2	4.0/1.2	4.0/1.2	4.0/1.2
Piping data								
Liquid side/Gas side		mm	Φ6.35/Φ12.7	Φ9.52/Φ15.88	Φ9.52/Φ19.05	Φ9.52/Φ19.05	Φ9.52/Φ19.05	Φ9.52/Φ19.05
Max. pipe length		m	20	20	20	20	20	20
Max. high drop		m	10	10	10	10	10	10



4-way Cassette Unit



18k-60k Btu/h

Standard



Optional



Features:

- 1 New developed panel**
Simple, featty and vogueish appearance suit for different requirements, it's mostly used for office, shopping center, restaurant, meeting room and etc.

18kBtu-60kBtu, standard type, 950mm*950mm



Standard type



New maintenance panel



New louver

- 2 New light panel for standard panel.**



Option

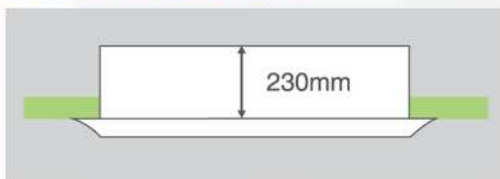


Standard

- 4 4-way air flow, cold air can reach each corner of the room, providing a stable and comfortable environment.**

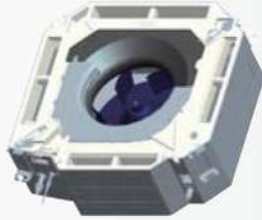


- 3 Ultra-thin body design, the min. height is only 230mm, save installation space.**

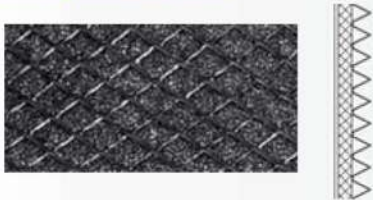


- 5 2 step motor design, stable air flow.**

- 6 Use the Oblique inserting type evaporator, 3 rows Φ 7mm evaporator for 60K Btu/h.



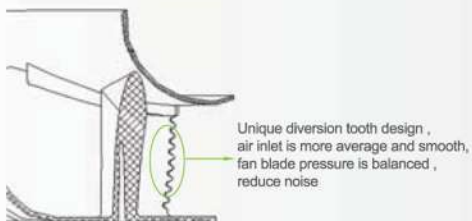
- 7 Cold catalyst filter for optional. After primary filtering, then the cold catalyst filter absorb the small particles, remove the PM2.5 effectively, contribute to a fresh air, healthy room condition.



- 8 3 fan speed, meet for different requirement.



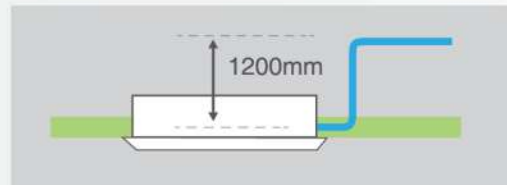
- 9 New streamlined fan design.



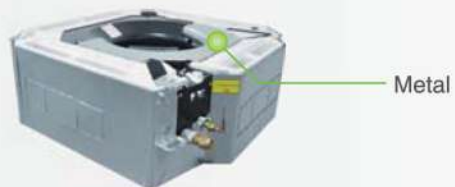
- 10 Easy and convenient installation and maintenance, washable filter design.



- 11 Built-in water pump, water head up to 1200mm.



- 12 Fire resistance design, the E-box with galvanized steel built-in body easy for maintenance.



- 13 Add four interfaces in body, can be connected with duct to another room.



- 14 Multi protection and auto-restart function

Specification

R410A Heating Pump



Indoor Unit		CCA-18HR1	CCA-24HR1	CCA-36HR1	CCA-48HR1	CCA-60HR1	
Power supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
Capacity							
Cooling	Capacity	Btu/h	18000	24000	36000	48000	60000
		KW	5.3	7.1	10.5	14	16
	Input	W	65	150	160	180	180
	Rated current	A	0.4	0.7	0.8	0.8	0.8
	EER	W/W	2.70	2.78	2.71	2.70	2.72
Heating	Capacity	Btu/h	20000	26000	39000	52000	60000
		KW	5.9	7.7	11.5	15.2	16.0
	Input	W	65	150	160	180	180
	Rated current	A	0.4	0.7	0.8	0.8	0.8
	COP	W/W	3.31	3.42	3.31	2.88	2.78
Physical data							
Indoor air flow(Hi/Med/Lo)	m ³ /h	810/720/640	1200/1020/840	1700/1500/1300	1900/1650/1400	1900/1650/1400	
Indoor noise level(Hi/Med/Lo)	dB(A)	45/41/38	48/46/44	48/46/44	52/48/45	52/48/45	
Dimension(W×H×D)	Body(mm)	840×230×840	840×230×840	840×285×840	840×285×840	840×285×840	
	Panel(mm)	950×50×950	950×50×950	950×50×950	950×50×950	950×50×950	
Packing dimension(W×H×D)	Body(mm)	920×265×920	920×265×920	920×310×920	920×310×920	920×310×920	
	Panel(mm)	1030×105×1030	1030×105×1030	1030×105×1030	1030×105×1030	1030×105×1030	
Net/Gross weight	Body(kg)	24/29	24/29	28/33.5	28/33.5	30.5/36	
	Panel(kg)	5.4/8.0	5.4/8.0	5.4/8.0	5.4/8.0	5.4/8.0	
Refrigerant type		R410a	R410a	R410a	R410a	R410a	
Piping data							
Liquid side/Gas side	mm	Φ6.35/Φ12.7	Φ9.52/Φ15.88	Φ9.52/Φ19.05	Φ9.52/Φ19.05	Φ9.52/Φ19.05	
Drainag pipe	mm	DN25	DN25	DN25	DN25	DN25	
Application area	m ²	20-35	28-50	40-70	55-95	60-105	

R410A Cooling Only



Indoor Unit		CCA-18CR1	CCA-24CR1	CCA-36CR1	CCA-48CR1	CCA-60CR1	
Power supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	
Capacity							
Cooling	Capacity	Btu/h	18000	24000	36000	48000	60000
		KW	5.3	7.1	10.5	14	16
	Input	W	65	150	160	180	180
	Rated current	A	0.4	0.7	0.8	0.8	0.8
	EER	W/W	2.70	2.78	2.71	2.70	2.72
Physical data							
Indoor air flow(Hi/Med/Lo)	m ³ /h	810/720/640	1200/1020/840	1700/1500/1300	1900/1650/1400	1900/1650/1400	
Indoor noise level(Hi/Med/Lo)	dB(A)	45/41/38	48/46/44	48/46/44	52/48/45	52/48/45	
Dimension(W×H×D)	Body(mm)	840×230×840	840×230×840	840×285×840	840×285×840	840×285×840	
	Panel(mm)	950×50×950	950×50×950	950×50×950	950×50×950	950×50×950	
Packing dimension(W×H×D)	Body(mm)	920×265×920	920×265×920	920×310×920	920×310×920	920×310×920	
	Panel(mm)	1030×105×1030	1030×105×1030	1030×105×1030	1030×105×1030	1030×105×1030	
Net/Gross weight	Body(kg)	24/29	24/29	28/33.5	28/33.5	30.5/36	
	Panel(kg)	5.4/8.0	5.4/8.0	5.4/8.0	5.4/8.0	5.4/8.0	
Refrigerant type		R410a	R410a	R410a	R410a	R410a	
Piping data							
Liquid side/Gas side	mm	Φ6.35/Φ12.7	Φ9.52/Φ15.88	Φ9.52/Φ19.05	Φ9.52/Φ19.05	Φ9.52/Φ19.05	
Drainag pipe	mm	DN25	DN25	DN25	DN25	DN25	
Application area	m ²	20-35	28-50	40-70	55-95	60-105	

Specification

R410A Heating Pump



Indoor Unit		CCB-12HR1	CCB-18HR1	
Power supply	V/Ph/Hz	220~240/1/50	220~240/1/50	
Capacity				
Cooling	Capacity	Btu/h	12000	18000
		KW	3.5	5.3
	Input	W	75	75
	Rated current	A	0.4	0.4
Heating	Capacity	Btu/h	13200	20000
		KW	3.8	5.9
	Input	W	75	75
	Rated current	A	0.3	0.4
	COP	W/W	3.01	3.34
Physical data				
Indoor air flow(Hi/Med/Lo)	m ³ /h	566/480/420	700/580/480	
Indoor noise level(Hi/Med/Lo)	dB(A)	48/45/43	48/45/43	
Dimension(W×H×D)	Body(mm)	580×275×580	580×275×580	
	Panel(mm)	650×30×650	650×30×650	
Packing dimension(W×H×D)	Body(mm)	745×375×675	745×375×675	
	Panel(mm)	750×95×750	750×95×750	
Net/Gross weight	Body(Kg)	25/27	25/27	
	Panel(Kg)	2.7/4.0	2.7/4.0	
Refrigerant type		R410a	R410a	
Piping data				
Liquid side/Gas side	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	
Drainage pipe	mm	DN25	DN25	
Application area	m ²	20-35	20-35	

R410A Cooling Only



Indoor Unit		CCB-18CR1	
Power supply	V/Ph/Hz	220~240/1/50	
Capacity			
Cooling	Capacity	Btu/h	18000
		KW	5.3
	Input	W	75
	Rated current	A	0.4
	EER	W/W	2.68
Physical data			
Indoor air flow(Hi/Med/Lo)	m ³ /h	700/580/480	
Indoor noise level(Hi/Med/Lo)	dB(A)	48/45/43	
Dimension(W×H×D)	Body(mm)	580×275×580	
	Panel(mm)	650×30×650	
Packing dimension(W×H×D)	Body(mm)	745×375×675	
	Panel(mm)	750×95×750	
Net/Gross weight	Body(Kg)	25/27	
	Panel(Kg)	2.7/4.0	
Refrigerant type		R410a	
Piping data			
Liquid side/Gas side	mm	Φ6.35/Φ12.7	
Drainage pipe	mm	DN25	
Application area	m ²	20-35	

R22 Cooling Only

Indoor Unit		CCB-12CR1	CCB-18CR1	
Power supply	V/Ph/Hz	220~240/1/50	220~240/1/50	
Capacity				
Cooling	Capacity	Btu/h	12000	18000
		KW	3.5	5.3
	Input	W	60	100
	Rated current	A	0.3	0.5
	EER	W/W	2.54	2.82
Physical data				
Indoor air flow(Hi/Med/Lo)	m ³ /h	560/480/420	700/580/480	
Indoor noise level(Hi/Med/Lo)	dB(A)	45/42/40	48/43/38	
Dimension(W×H×D)	Body(mm)	580×275×580	580×275×580	
	Panel(mm)	650×30×650	650×30×650	
Packing dimension(W×H×D)	Body(mm)	745×375×675	745×375×675	
	Panel(mm)	750×95×750	750×95×750	
Net/Gross weight	Body (Kg)	25/27	25/27	
	Panel (Kg)	2.7/4.0	2.7/4.0	
Refrigerant type		R22	R22	
Piping data				
Liquid side/Gas side	mm	Φ6.35/Φ12.7	Φ6.35/Φ12.7	
Drainage pipe	mm	DN25	DN25	
Application area	m ²	15~25	20~35	