

ComfortStar®

Air Conditioning & Heating Products

VRF SYSTEMS CATALOG

- HEAT PUMP
- HEAT RECOVERY
- RESIDENTIAL & COMMERCIAL



Orbitseries™

APPLIED COMMERCIAL AIR CONDITIONING



Orbitseries™

APPLIED COMMERCIAL AIR CONDITIONING

ComfortStar®

ComfortStar®

ORBIT VRF SYSTEMS

INDEX

ORBIT SERIES VRF

- Main Features & Combination Table** 4
- 13 Basic Models**.....5
- Cutting-Edge Technology** 6
- Technical Advantages and Reliability**8
- Installation and Service Features**.....10

ORBIT VRF MODELS14

CC-VAC - Cooling Only

- Specifications 220V 16-18
- Specifications 380V 19-22

CC-VAH - Cooling & Heating 23

- Specifications24-27

ORBIT MINI-VRF MODELS

- Single & Triple Phase Series** 28
- Installation and Service Features**.....30

ORBIT Mini-VRF Models | Cooling & Heating

- Specifications32-35

ORBIT INDOOR VRF UNITS..... 36

- Indoor Units Comfort & Efficiency Features..... 38

ORBIT INDOOR VRF Unit Specifications

- One-way Cassette Units 40
- Two-Way Cassette Units 41
- Four-Way Cassette Units 42
- Compact Four-Way Cassette Units..... 43-44
- Wall Mounted Units 45
- Floor/Ceiling Units (AC & DC)..... 46-47
- Floor Standing Units 48
- Short Ducted Units (AC & DC)..... 49
- Medium Ducted Units (AC & DC)..... 50
- High ESP Ducted Units (AC & DC) 51-52
- Fresh Air Units 52
- Ducted AHU Multi-Position Units 53
- AHU Kit

CONTROLS & SOFTWARE..... 54

- Wireless Controls 56
- Software Applications 58

Orbitseries™

ORBIT VRF MAIN FEATURES



Indoor Units
VRF indoor units



AHU Connection Kit
Connect to other brand AHU



Ventilation
Heat recovery ventilator (HRC)



Fresh Air Processing Unit
100% fresh air supply



Control Systems
Smart control systems



Pipe Length Application
for High Rise residential and commercial buildings

Additional Features:

- DC inverter compressors
- Capacity up to 32HP
- Cycle duty operation
- Up to 64 Indoor Units.
65-100 indoor units available with 3-pin PCB (customized).
- Backup operation
- Precise oil control technology
- Low noise operation
- Simple communication wiring
- Easy maintenance

COMBINATION TABLE

HP	COOLING CAP (Kw)	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP
8	25.2	●												
10	28		●											
12	33.5			●										
14	40				●									
16	45					●								
18	50						●							
20	56							●						
22	61.5								●					
24	67									●				
26	73										●			
28	78.5											●		
30	85												●	
32	90													●
34	95					●								
36	100						●●							
38	106.5					●								
40	111.5						●							
42	117.5							●						
44	123								●●					
46	128.5								●					
48	134									●●				
50	140								●					
52	145.5									●				
54	152									●				
56	157									●				
58	163						●●							
60	168.5					●				●●●				
62	175						●			●●●				
64	180							●		●●●				
66	184.5								●●●	●●●				
68	190								●●	●				
70	195.5								●	●●				
72	201.5								●●					
74	207						●							
76	212.5									●●				
78	218.5								●					
80	224									●				
82	230								●●					
84	235.5										●			
86	242											●●●		
88	247											●●		
90	253										●			●●
92	258.5											●		●●
94	265												●	●●
96	270												●	●●●

*Note:Max.4 outdoor units can be freely combined to become a larger unit,the maximum capacity of single system is 96HP, when 4 outdoor units are combined,the single unit capacity can not exceed 24HP.

MAXIMUM CAPACITY 96HP

Modules can be combined to become larger system. Max. 4 outdoor units can be combined in one system.* Maximum capacity of single system can be up to 96HP.

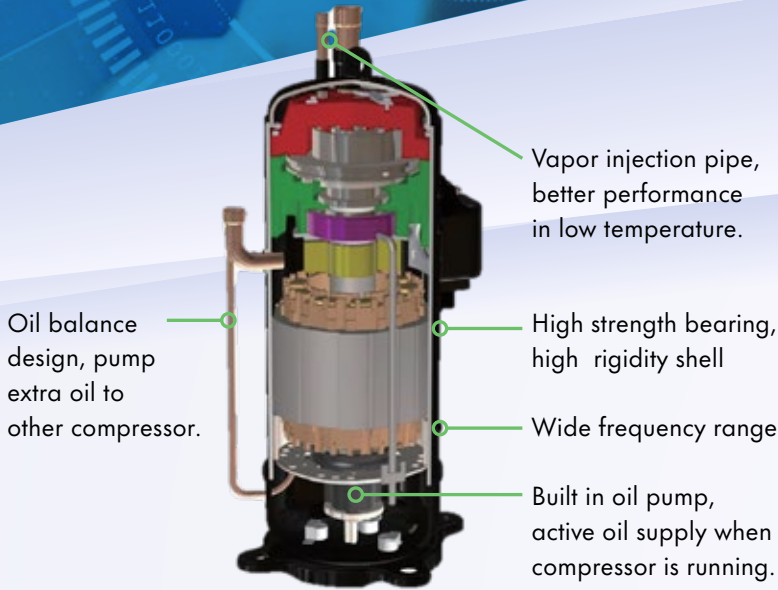
*When four outdoor units are combined, the single unit capacity can't exceed 24HP.

HP	8	10	12	14	16	18	20	22	24	26	28	30	32
Dimension (mm)	990 - 1740 - 845			1340 - 1740 - 845					1990 - 1740 - 845				
Fan Quantity	1	1	1	1	1	2	2	2	2	2	2	2	2
Compressor Quantity	1	1	1	1	1	1	1	1	2	2	2	2	2



Orbitseries™

CUTTING-EDGE TECHNOLOGY



DC INVERTER EVI COMPRESSOR

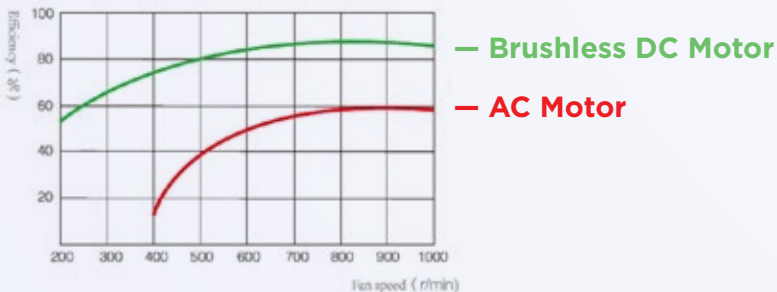
- High pressure chamber
- Small suction refrigerant superheat.
- Large refrigerant discharge volume, low vibration and noise.

HIGH EFFICIENCY DC BRUSHLESS MOTOR

- High efficiency DC fan motor.
- Low noise and high efficiency because of high-density wire winding engineering.
- The operating efficiency at low speed is far better than that of traditional motors. The actual operating efficiency is improved by more than 30% compared with traditional motors.



DC Motor

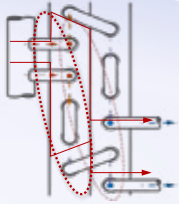




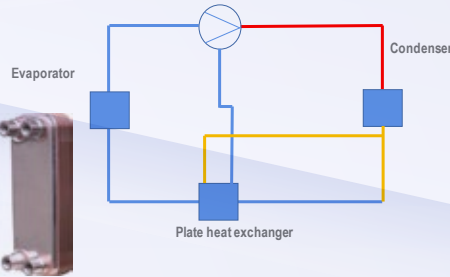
DC MOTOR STEPLESS CONTROL

- High precision pressure sensor regulates fan motor speed.
- High precision and reliability, these controls enable smooth speed regulation, ensuring stable motor operation under a wide range of operating conditions.

Inlet and outlet are separated.



First stage: Sub-cooling Flow Path Design



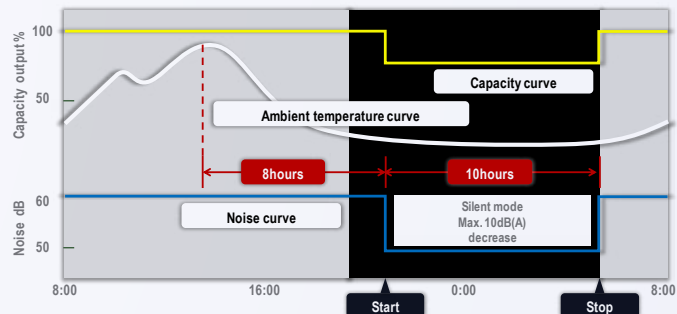
Second stage: secondary sub-cooling Design

2 STAGE SUB-COOLING

- 2 Stage Sub-Cooling flow path design separates the refrigerant, reducing the effect of high temperature inlet gas refrigerant to low temperature. Therefore, the system efficiency will be greatly increased.

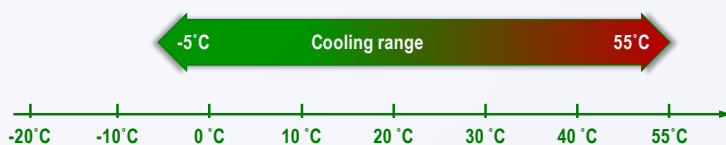
NIGHT TIME NOISE CONTROL

- At night, the unit will run at lower capacity to decrease noise.
- The night time and day time can be adjusted in main PCB.



WIDE AMBIENT TEMPERATURE RANGE

- Max. cooling operating temperature is up to 55°C.
- Low ambient temperature of cooling mode can be down to -5°C.



Orbitseries™

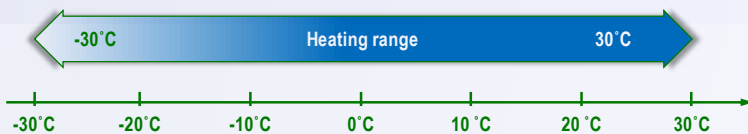
TECHNICAL ADVANTAGES AND RELIABILITY

REFRIGERANT COOLING DESIGN

- Refrigerant maintains inverter modular board cool, even at outdoor temperature of 55°C.



Double U-shape

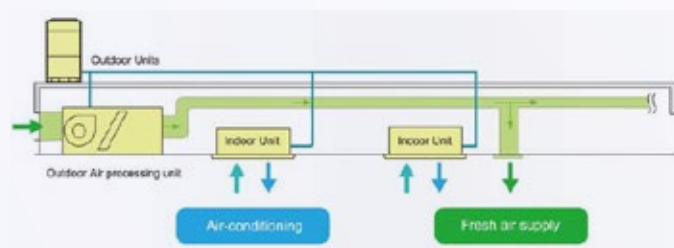


WIDE AMBIENT TEMPERATURE RANGE

- Heating operating temperature is down to -30°C.
- EVI technology increases Orbit VRF's Series heating performance by 35% , compared to conventional VRF system.
- Due to EVI technology, Orbit VRF's still has 85% of rated capacity even in -15°C.

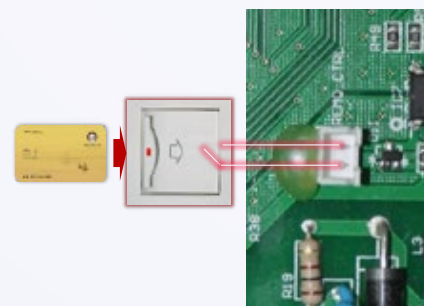
FULL FRESH AIR PROCESSOR

- Provide processed fresh air to the room.
- ESP is up to 220/300Pa, suitable for long distance supply.



REMOTE CONTROL (ON/OFF TERMINAL)

- Indoor units includes ON/OFF control port.
- It can be used for hotel card control and long distance remote ON/OFF control.



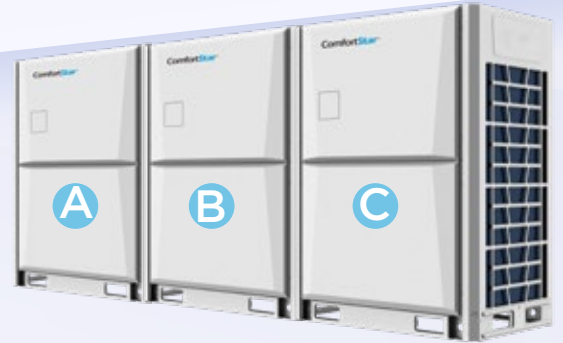
ALL OUTDOOR UNITS CYCLE OPERATION

- In one combination system, any outdoor unit can run as master unit, the start order will change automatically.
- Balance the lifespan among outdoor units in one system.

Time x:
Start order: A→B→C

Time x+1:
Start order: B→C→A

Time x+2:
Start order: C→A→B



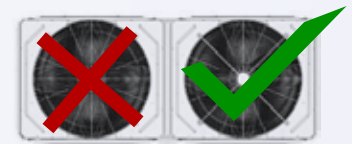
BACKUP FUNCTION

- **MODULE BACK UP FUNCTION**
If one Module is failing, the others continue to run.



- **COMPRESSOR BACK UP FUNCTION**
When one compressor is failing, the other one can keep running.

- **FAN MOTOR BACK UP FUNCTION**
When one fan motor is failing, the other one can keep running.



POWER SAVING MODE

- In the event of a power shortage, Orbit VRF's can run in power saving mode to ease generator's pressure.



40% ~ 100%

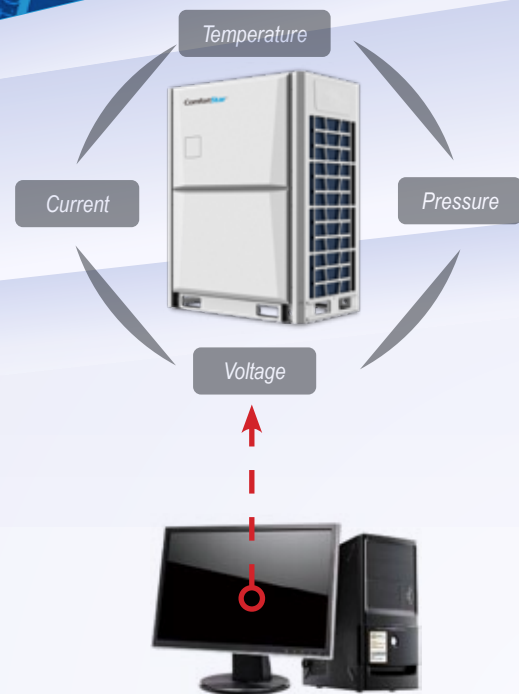


Orbitseries™

INSTALLATION AND SERVICE FEATURES

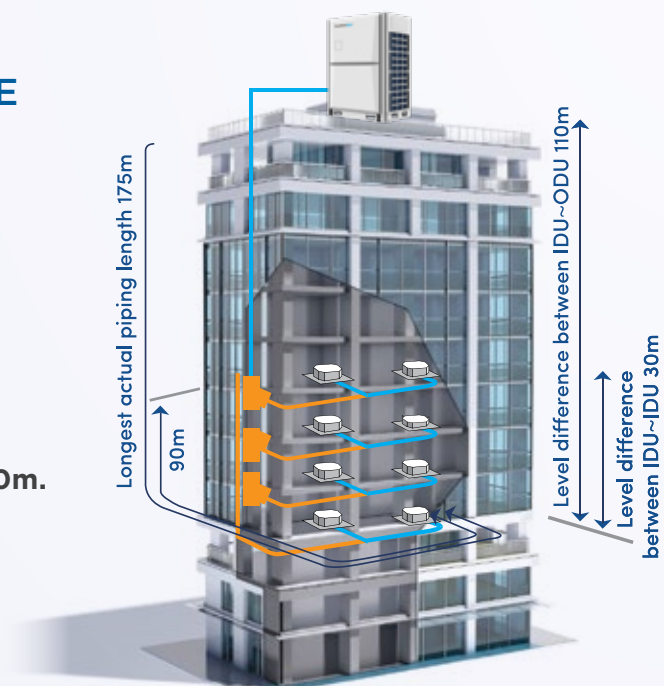
DIAGNOSIS & MALFUNCTION FORECASTING (OPTIONAL)

- Technician can do remote commissioning & diagnosis through the Internet before they go to the jobsite.
- Running parameters of outdoor units and indoor units can be checked.
- Malfunction can be foreseen when system's running parameters are abnormal.



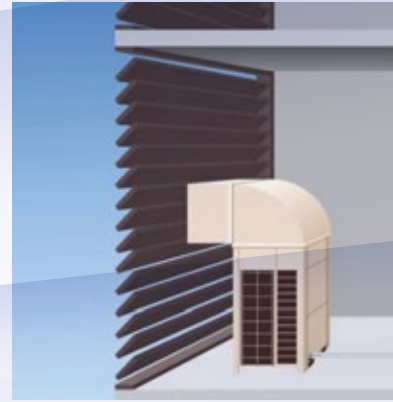
PIPE LENGTH & HEIGHT DIFFERENCE

- The total pipe length: **1000m**
- The longest pipe length: **200/240m**
- Height difference:
 - Outdoor unit above **<100m**
 - Outdoor unit below **<110m**
- Height difference between indoor units: **40m**
- Length from first indoor distributor to last indoor unit: **90m**
- Communication wire length can be up to **1000m**.



ADJUSTABLE OUTDOOR FAN STATIC PRESSURE

- Due to the DC fan motor, the external static pressure of the outdoor fan is adjustable.
- Outdoor units can be installed in the service floor or facility room.
- Maximum ESP 80Pa.



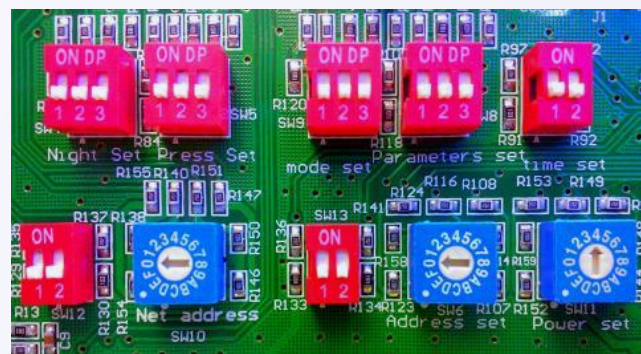
AUTOMATIC ADDRESSING

- 2 addressing methods:
- Automatic addressing: system will distribute address to indoor unit automatically.
- Manual setting by wireless remote control.
- Addressing method can be selected easily by adjusting the switch on outdoor PCB.



MODE RESTRICTION

- **6 MODE RESTRICTION:**
 - Auto mode
 - Cooling priority mode
 - Heating priority mode
 - Cooling only mode
 - Heating only mode
 - VIP No.63 unit priority or Auto priority mode
- Mode restriction function can be selected on the outdoor PCB.



Orbitseries™

INSTALLATION AND SERVICE FEATURES

Oil Separator



Separation Efficiency 99%

Oil Level Control



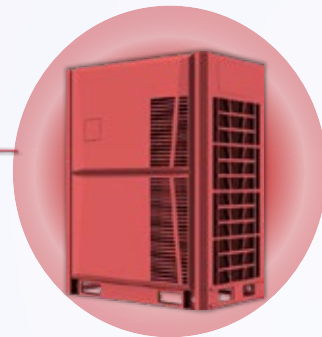
Oil Even Pipe

OIL CONTROL TECHNOLOGY

- Core oil control technology makes system safe & reliable.

3-PHASE POWER PROTECTOR (OPTIONAL)

- Wide operation voltage range: 295V ~ 456V and 208V ~ 220V.
- Protect the outdoor unit from unstable voltage.
- High quality and reliable protector.



REFRIGERANT STATUS DETECTION

- Built-in with smart refrigerant auto check function, which can give suggestion about refrigerant status.
- DIFFERENT CODE MEANS DIFFERENT REFRIGERANT STATUS:

- 13: Extremely Insufficient
- 12: Insufficient
- 11: Slightly Insufficient
- 0: Normal
- 1: Slightly High
- 2: Excessively High



AUTO REFRIGERANT CHARGING (OPTIONAL)

- Orbit VRF can be customized with automatic refrigerant charging function. A solenoid valve would be added to gas pipe and outdoor unit will control the valve to charge refrigerant.



Auto Charging



E-PART INTEGRATED TECHNOLOGY

- Orbit VRF integrated circuit control technology wiring connection and quantity of PCBs.



FRONT COVER SERVICE WINDOW

- Checking outdoor unit's status and setting is convenient and easier to check.

- ERROR CODE CHECK >
- FUNCTION SETTING >
- COMMISSIONING >



ELECTRICAL LOCK FUNCTION (OPTIONAL)

- In the event the Orbit VRF needs to be locked. The system can only be unlocked with a password by authorized technician.

Orbitseries™

ORBIT VRF MODELS

HIGH PERFORMANCE VRF OUTDOOR UNITS OFFERING HIGH EFFICIENCY WITH EXCEPTIONAL COOLING AND HEATING.

WIDE CAPACITY RANGE

The outdoor units' capacity range from 8HP to 96HP.

ComfortStar ORBIT VRF units support piping lengths up to 1000m (3280') and height differences up to 110m (360'), rising to the challenge of today's tall buildings. In addition, a wide range of indoor units providing flexibility and producing climate control solutions for a wide range of interior spaces.



ComfortStar®

CC-VAC & CC-VAH - MAIN FEATURES

- Outdoor Operation Range
- Power Saving Mode
- Refrigerant Status Detection
- Extended Pipe and Height Lengths
- Easy Access Service Window On Front Cover
- 13 Basic Modules
- Simple Communication Wiring
- Maximum 96HP





Orbitseries™

CC-VAC COOLING ONLY · 220V · 8/10/12HP

MODEL		CC-VAC008-2PS1	CC-VAC010-2PS1	CC-VAC012-2PS1	
POWER SUPPLY		220V/3PH/50Hz/60Hz	220V/3PH/50Hz/60Hz	220V/3PH/50Hz/60Hz	
COOLING CAPACITY	HP	8HP	10HP	12HP	
	kW	25.2	28	33.5	
	Btu/h	86000	95500	114000	
	RT	7.2	8	9.5	
Power Input	kW	5.82	6.81	9.05	
EER	W/W	4.33	4.11	3.7	
Max. Input Consumption		kW	13.50	14.10	14.20
Rate Current		A	40.0	42.0	45.0
Max. Current		A	50.0	50.0	50.0
Capacity Adjustment Range		50%~130%	50%~130%	50%~130%	
COMPRESSOR DATA					
Dc Inverter Compressor	Quantity	1	1	1	
	Type	DC /Twin-rotary	DC /Twin-rotary	DC /Twin-rotary	
	Frequency Range	rps	10~120	10~120	10~120
Compressor Oil	Model	FV50S	FV50S	FV50S	
	Original Oil Volume	ml	2300	2300	2300
	Additional Oil Volume	ml	2500	2500	2500
FAN DATA					
Fan Motor	Type	DC	DC	DC	
	Model	DR-310-750-8-1 (ZDK750-8ZHm)			
	Quantity	1	1	1	
	Insulation Class	B	B	B	
	Protection Class	IP44	IP44	IP44	
	Power Output	W	750	750	750
Fan Blade	Material	ASG20	ASG20	ASG20	
	Type	Axial	Axial	Axial	
	Drive	Direct-driven	Direct-driven	Direct-driven	
	Fan Quantity	1	1	1	
	Air Flow	m ³ /h	10500	10500	11000
PHYSICAL DATA					
Outdoor Coil	Fin Type	Hydrophilic	Hydrophilic	Hydrophilic	
	Tube Outside Diameter	mm	7.94	7.94	7.94
	Tube Type	Inner-grooved	Inner-grooved	Inner-grooved	
Refrigerant	Type	R410a	R410a	R410a	
	Volume	kg	8	8	8
Dimension (D*H*W)	Net	mm	840*1740*990	840*1740*990	840*1740*990
		inches	33.07*68.50*38.98	33.07*68.50*38.98	33.07*68.50*38.98
	Packing	mm	910*1900*1060	910*1900*1060	910*1900*1060
Weight	Net	kg	208	208	208
	Gross	kg	218	218	218
Outdoor Sound Level	dB(A)	58	58	60	
Maximum Operating Pressure	MPa	4.5	4.5	4.5	
PIPING & WIRING DATA					
Pipe Size	Liquid Pipe	mm	Ø12.7	Ø12.7	Ø12.7
	Gas Pipe	mm	Ø25.4	Ø25.4	Ø25.4
Max. Pipe Length	Total Pipe Length	m	1000	1000	1000
	From Ou To Farthest lu(Actual Length)	m	190	190	190
	From Ou To Farthest lu(Equivalent Length)	m	220	220	220
	From 1st Indoor Distributor To Farthest lu	m	90	90	90
Max. Vertical Length	Between Ou & lu(Ou Above lu)	m	90	90	90
	Between Ou & lu(Ou Below lu)	m	110	110	110
	Between lus	m	30	30	30
	Between Ous	m	0	0	0
Connection Wire	Power Wire Size	mm ²	6*4+6(L≤20m)	6*4+6(L≤20m)	6*4+10(L≤20m)
			10*4+6(20m<L≤50m)	10*4+6(20m<L≤50m)	10*4+10(20m<L≤50m)
	Signal Wire Type		2-core shielded cable	2-core shielded cable	2-core shielded cable
	Signal Wire Size	mm ²	0.75	0.75	0.75
OPERATION TEMPERATURE RANGE					
Cooling	Outdoor Side	°C / °F	-15~55 / 5~131	-15~55 / 5~131	-15~55 / 5~131
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

*The above data may be changed without notice for future improvement.



Orbitseries™

CC-VAC COOLING ONLY · 220V · 14/16/18HP

MODEL		CC-VAC014-2PS1	CC-VAC016-2PS1	CC-VAC018-2PS1
POWER SUPPLY		220V/3PH/50Hz/60Hz	220V/3PH/50Hz/60Hz	220V/3PH/50Hz/60Hz
COOLING CAPACITY	HP	14HP	16HP	18HP
	kW	40	45	50
	Btu/h	136500	153500	170600
	RT	11.4	12.8	14.2
Power Input	kW	10.47	12.13	14.62
EER	W/W	3.82	3.71	3.42
Max. Input Consumption	kW	16.90	17.30	24.00
Rate Current	A	50.0	53.0	70.0
Max. Current	A	55.0	60.0	80.0
Capacity Adjustment Range		50%~130%	50%~130%	50%~130%
COMPRESSOR DATA				
Dc Inverter Compressor	Quantity	1	1	2
	Type	DC /Twin-rotary	DC /Twin-rotary	DC /Twin-rotary
	Frequency Range	rps	10~120	10~120
Compressor Oil	Model	FV50S	FV50S	FV50S
	Original Oil Volume	ml	2300	2300
	Additional Oil Volume	ml	4500	4500
FAN DATA				
Fan Motor	Type	DC	DC	DC
	Model		DR-310-920-8 (ZDK920-8ZFm)	
	Quantity	1	1	1
	Insulation Class	B	B	B
	Protection Class	IP44	IP44	IP44
	Power Output	W	920	920
Fan Blade	Material	ASG20	ASG20	ASG20
	Type	Axial	Axial	Axial
	Drive	Direct-driven	Direct-driven	Direct-driven
	Fan Quantity	1	1	1
	Air Flow	m3/h	13500	13500
PHYSICAL DATA				
Outdoor Coil	Fin Type	Hydrophilic	Hydrophilic	Hydrophilic
	Tube Outside Diameter	mm	7.94	7.94
	Tube Type	Inner-grooved	Inner-grooved	Inner-grooved
Refrigerant	Type	R410a	R410a	R410a
	Volume	kg	12	13
Dimension (D*H*W)	Net	mm	840*1740*1340	840*1740*1340
		inches	33.07*68.50*52.76	33.07*68.50*52.76
	Packing	mm	910*1900*1410	910*1900*1410
Weight	Net	kg	260	288
	Gross	kg	278	306
Outdoor Sound Level	dB(A)	60	61	62
Maximum Operating Pressure	MPa	4.5	4.5	4.5
PIPING & WIRING DATA				
Pipe Size	Liquid Pipe	mm	Ø15.9	Ø15.9
	Gas Pipe	mm	Ø31.8	Ø31.8
Max. Pipe Length	Total Pipe Length	m	1000	1000
	From Ou To Farthest lu(Actual Length)	m	190	190
	From Ou To Farthest lu(Equivalent Length)	m	220	220
	From 1st Indoor Distributor To Farthest lu	m	90	90
Max. Vertical Length	Between Ou & lu(Ou Above lu)	m	90	90
	Between Ou & lu(Ou Below lu)	m	110	110
	Between lus	m	30	30
	Between Ous	m	0	0
Connection Wire	Power Wire Size	mm2	10*4+10(L≤20m) 16*4+10(20m<L≤50m)	10*4+10(L≤20m) 16*4+10(20m<L≤50m)
	Signal Wire Type		2-core shielded cable	2-core shielded cable
	Signal Wire Size	mm2	0.75	0.75
OPERATION TEMPERATURE RANGE				
Cooling	Outdoor Side	°C / °F	-15~55 / 5~131	-15~55 / 5~131
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90

*The above data may be changed without notice for future improvement.



Orbitseries™

CC-VAC COOLING ONLY · 220V · 20/22/24HP

MODEL		CC-VAC020-2PS1	CC-VAC022-2PS1	CC-VAC024-2PS1
POWER SUPPLY		220V/3PH/50Hz/60Hz	220V/3PH/50Hz/60Hz	220V/3PH/50Hz/60Hz
COOLING CAPACITY	HP	20HP	22HP	24HP
	kW	56	61.5	67
	Btu/h	191000	209800	228604
	RT	16	17.5	19.1
Power Input	kW	17.13	19.84	22.11
EER	W/W	3.27	3.10	3.03
Max. Input Consumption		kW	26.50	27.00
Rate Current		A	78.0	80.0
Max. Current		A	85.0	90.0
Capacity Adjustment Range			50%~130%	50%~130%
COMPRESSOR DATA				
Dc Inverter Compressor	Quantity		2	2
	Type		DC /Twin-rotary	DC /Twin-rotary
	Frequency Range	rps	10~120	10~120
Compressor Oil	Model		FV50S	FV50S
	Original Oil Volume	ml	2300*2	2300*2
	Additional Oil Volume	ml	4000	4000
FAN DATA				
Fan Motor	Type		DC	DC
	Model		DR-310-560-8-1 (ZDK560-8ZFm)	
	Quantity		2	2
	Insulation Class		B	B
	Protection Class		IP44	IP44
	Power Output	W	560	560
Fan Blade	Material		ASG20	ASG20
	Type		Axial	Axial
	Drive		Direct-driven	Direct-driven
	Fan Quantity		2	2
	Air Flow	m3/h	16500	16500
PHYSICAL DATA				
Outdoor Coil	Fin Type		Hydrophilic	Hydrophilic
	Tube Outside Diameter	mm	7.94	7.94
	Tube Type		Inner-grooved	Inner-grooved
Refrigerant	Type		R410a	R410a
	Volume	kg	14	15
Dimension (D*H*W)	Net	mm	840*1740*1340	840*1740*1340
		inches	33.07*68.50*52.76	33.07*68.50*52.76
	Packing	mm	910*1900*1410	910*1900*1410
Weight	Net	kg	296	306
	Gross	kg	314	324
Outdoor Sound Level	dB(A)	63	63	63
Maximum Operating Pressure	MPa	4.5	4.5	4.5
PIPING & WIRING DATA				
Pipe Size	Liquid Pipe	mm	Ø15.9	Ø15.9
	Gas Pipe	mm	Ø31.8	Ø31.8
Max. Pipe Length	Total Pipe Length	m	1000	1000
	From Ou To Farthest lu(Actual Length)	m	190	190
	From Ou To Farthest lu(Equivalent Length)	m	220	220
	From 1st Indoor Distributor To Farthest lu	m	90	90
Max. Vertical Length	Between Ou & lu(Ou Above lu)	m	90	90
	Between Ou & lu(Ou Below lu)	m	110	110
	Between lus	m	30	30
	Between Ous	m	0	0
Connection Wire	Power Wire Size	mm2	16*4+16(L≤20m)	16*4+16(L≤20m)
	Signal Wire Type		2-core shielded cable	2-core shielded cable
	Signal Wire Size	mm2	0.75	0.75
OPERATION TEMPERATURE RANGE				
Cooling	Outdoor Side	°C / °F	-15~55 / 5~131	-15~55 / 5~131
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90

*The above data may be changed without notice for future improvement.



Orbitseries™

CC-VAC COOLING ONLY · 380-415V · 8/10/12HP

MODEL		CC-VAC008-3PS1	CC-VAC010-3PS1	CC-VAC012-3PS1	
POWER SUPPLY		380~415V-3PH-50Hz/60Hz	380~415V-3PH-50Hz/60Hz	380~415V-3PH-50Hz/60Hz	
COOLING CAPACITY	HP	8HP	10HP	12HP	
	kW	T1:25.2/T3:21.5	T1:28/T3:23.8	T1:33.5/T3:28.4	
	Btu/h	T1:86000/T3:73106	T1:95500/T3:81229	T1:114000/T3:97184	
	RT	T1:7.2/T3:6.09	T1:8/T3:6.77	T1:9.5/T3:8.10	
Power Input	kW	T1:5.86/T3:6.46	T1:6.79/T3:7.59	T1:9.18/T3:10.01	
EER	W/W	T1:4.3/T3:3.31	T1:4.12/T3:3.13	T1:3.65/T3:2.85	
Rated. Input Consumption		kW	13.90	14.10	14.60
Rated. Current		A	24.0	24.5	25.2
Capacity Adjustment Range			50%~130%	50%~130%	50%~130%
COMPRESSOR DATA					
Dc Inverter Compressor	Quantity		1	1	1
	Type		DC /Twin-rotary	DC /Twin-rotary	DC /Twin-rotary
	Frequency Range	rps	10-120	10-120	10-120
Compressor Oil	Model		FV50S	FV50S	FV50S
	Original Oil Volume	ml	2300	2300	2300
	Additional Oil Volume	ml	2500	2500	2500
FAN DATA					
Fan Motor	Type		DC	DC	DC
	Model		DR-310-750-8-1		
	Quantity		1	1	1
	Insulation Class		B	B	B
	Protection Class		IP44	IP44	IP44
	Power Output	W	750	750	750
Fan Blade	Material		ASG20	ASG20	ASG20
	Type		Axial	Axial	Axial
	Drive		Direct-driven	Direct-driven	Direct-driven
	Fan Quantity		1	1	1
	Air Flow	m ³ /h	10500	10500	11000
PHYSICAL DATA					
Outdoor Coil	Fin Type		Hydrophilic	Hydrophilic	Hydrophilic
	Tube Outside Diameter	mm	7.94	7.94	7.94
	Tube Type		Inner-grooved	Inner-grooved	Inner-grooved
Refrigerant	Type		R410a	R410a	R410a
	Volume	kg	10	10	10
Dimension (D*H*W)	Net	mm	840*1740*990	840*1740*990	840*1740*990
		inches	33.07*68.50*38.98	33.07*68.50*38.98	33.07*68.50*38.98
	Packing	mm	910*1900*1060	910*1900*1060	910*1900*1060
Weight	Net	kg	210	210	210
	Gross	kg	220	220	220
Outdoor Sound Level		dB(A)	58	58	60
Maximum Operating Pressure		MPa	4.5	4.5	4.5
PIPING & WIRING DATA					
Pipe Size	Liquid Pipe	mm	Ø12.7	Ø12.7	Ø12.7
	Gas Pipe	mm	Ø22.2	Ø22.2	Ø22.2
Max. Pipe Length	Total Pipe Length	m	1000	1000	1000
	From Ou To Farthest lu(Actual Length)	m	200	200	200
	From Ou To Farthest lu(Equivalent Length)	m	240	240	240
	From 1st Indoor Distributor To Farthest lu	m	90	90	90
Max. Vertical Length	Between Ou & lu(Ou Above lu)	m	90	100	100
	Between Ou & lu(Ou Below lu)	m	110	110	110
	Between lus	m	30	40	40
	Between Ous	m	0	0	0
	Power Wire Size	mm ²	6*4+6(L≤20m)	6*4+6(L≤20m)	6*4+6(L≤20m)
Connection Wire	Signal Wire Type		2-core shielded cable	2-core shielded cable	2-core shielded cable
	Signal Wire Size	mm ²	0.75	0.75	0.75
OPERATION TEMPERATURE RANGE					
Cooling	Outdoor Side	°C / °F	-15~55 / 5~131	-15~55 / 5~131	-15~55 / 5~131
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

*The above data may be changed without notice for future improvement.



Orbitseries™

CC-VAC COOLING ONLY · 380-415V · 14/16/18HP

MODEL			CC-VAC014-3PS1	CC-VAC016-3PS1	CC-VAC018-3PS1
POWER SUPPLY			380~415V-3PH-50Hz/60Hz	380~415V-3PH-50Hz/60Hz	380~415V-3PH-50Hz/60Hz
CAPACITY	HP		14HP	16HP	18HP
	kW		T1:40/T3:34.1	T1:45/T3:38.3	T1:50/T3:42.4
	Btu/h		T1:136500/T3:116041	T1:153500/T3:130546	T1:170600/T3:145051
	RT		T1:11.4/T3:9.67	T1:12.8/T3:10.9	T1:14.2/T3:12.08
Power Input	kW		T1:10.50/T3:11.55	T1:12.20/T3:12.76	T1:15.1/T3:16.37
EER	W/W		T1:3.8/T3:2.94	T1:3.68/T3:3.00	T1:3.31/T3:2.60
Rated. Input Consumption		kW	17.96	18.34	18.74
Rated. Current		A	30.2	31.0	32.0
Capacity Adjustment Range			50%~130%	50%~130%	50%~130%
COMPRESSOR DATA					
Dc Inverter Compressor	Quantity		1	1	1
	Type		DC /Twin-rotary	DC /Twin-rotary	DC /Twin-rotary
	Frequency Range	rps	10-120	10-120	10-120
Compressor Oil	Model		FV50S	FV50S	FV50S
	Original Oil Volume	ml	2300	2300	2300
	Additional Oil Volume	ml	4500	4500	4500
FAN DATA					
Fan Motor	Type		DC	DC	DC
	Model		DR-310-920-8		
	Quantity		1	1	1
	Insulation Class		B	B	B
	Protection Class		IP44	IP44	IP44
	Power Output	W	920	920	920
Fan Blade	Material		ASG20	ASG20	ASG20
	Type		Axial	Axial	Axial
	Drive		Direct-driven	Direct-driven	Direct-driven
	Fan Quantity		1	1	1
	Air Flow	m ³ /h	13500	13500	13500
PHYSICAL DATA					
Outdoor Coil	Fin Type		Hydrophilic	Hydrophilic	Hydrophilic
	Tube Outside Diameter	mm	7.94	7.94	7.94
	Tube Type		Inner-grooved	Inner-grooved	Inner-grooved
Refrigerant	Type		R410a	R410a	R410a
	Volume	kg	12.5	12.5	12.5
Dimension (D*H*W)	Net	mm	840*1740*1340	840*1740*1340	840*1740*1340
		inches	33.07*68.50*52.76	33.07*68.50*52.76	33.07*68.50*52.76
	Packing	mm	910*1900*1410	910*1900*1410	910*1900*1410
Weight	Net	kg	260	260	260
	Gross	kg	278	278	278
Outdoor Sound Level		dB(A)	60	61	62
Maximum Operating Pressure		MPa	4.5	4.5	4.5
PIPING & WIRING DATA					
Pipe Size	Liquid Pipe	mm	Ø15.9	Ø15.9	Ø15.9
	Gas Pipe	mm	Ø28.6	Ø28.6	Ø28.6
Max. Pipe Length	Total Pipe Length	m	1000	1000	1000
	From Ou To Farthest lu(Actual Length)	m	200	200	200
	From Ou To Farthest lu(Equivalent Length)	m	240	240	240
	From 1st Indoor Distributor To Farthest lu	m	90	90	90
Max. Vertical Length	Between Ou & lu(Ou Above lu)	m	100	100	100
	Between Ou & lu(Ou Below lu)	m	110	110	110
	Between lus	m	40	40	40
	Between Ous	m	0	0	0
Connection Wire	Power Wire Size	mm ²	10*5(L≤20m)	10*5(L≤20m)	16*5(L≤20m)
	Signal Wire Type		2-core shielded cable	2-core shielded cable	2-core shielded cable
	Signal Wire Size	mm ²	0.75	0.75	0.75
OPERATION TEMPERATURE RANGE					
Cooling	Outdoor Side	°C / °F	-15~55 / 5~131	-15~55 / 5~131	-15~55 / 5~131
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

*The above data may be changed without notice for future improvement.



Orbitseries™

CC-VAC COOLING ONLY · 380-415V · 20/22/24HP

MODEL		CC-VAC020-3PS1	CC-VAC022-3PS1	CC-VAC024-3PS1	
POWER SUPPLY		380~415V-3PH-50Hz/60Hz	380~415V-3PH-50Hz/60Hz	380~415V-3PH-50Hz/60Hz	
CAPACITY	HP	20HP	22HP	24HP	
	kW	T1:56/T3:47.7	T1:61.5/T3:52.28	T1:67/T3:57	
	Btu/h	T1:191000/T3:162457	T1:209800/T3:178413	T1:228600/T3:194369	
	RT	T1:16/T3:13.53	T1:17.5/T3:14.86	T1:19.1/T3:16.19	
Power Input	kW	T1:17.6/T3:18.52	T1:20.36/T3:21.09	T1:20.80/T3:21.60	
EER	W/W	T1:3.18/T3:2.57	T1:3.02/T3:2.48	T1:3.22/T3:2.64	
Rated. Input Consumption	kW	25.90	27.80	29.50	
Rated. Current	A	46.6	47.5	51.00	
Capacity Adjustment Range		50%~130%	50%~130%	50%~130%	
COMPRESSOR DATA					
Dc Inverter Compressor	Quantity	2	2	2	
	Type	DC /Twin-rotary	DC /Twin-rotary	DC /Twin-rotary	
	Frequency Range	rps	10-120	10-120	10-120
Compressor Oil	Model	FV50S	FV50S	FV50S	
	Original Oil Volume	ml	2300*2	2300*2	2300*2
	Additional Oil Volume	ml	4000	4000	4000
FAN DATA					
Fan Motor	Type	DC	DC	DC	
	Model	DR-310-560-8-1			
	Quantity	2	2	2	
	Insulation Class	B	B	B	
	Protection Class	IP44	IP44	IP44	
	Power Output	W	560	560	560
Fan Blade	Material	ASG20	ASG20	ASG20	
	Type	Axial	Axial	Axial	
	Drive	Direct-driven	Direct-driven	Direct-driven	
	Fan Quantity	2	2	2	
	Air Flow	m3/h	16500	16500	16500
PHYSICAL DATA					
Outdoor Coil	Fin Type	Hydrophilic	Hydrophilic	Hydrophilic	
	Tube Outside Diameter	mm	7.94	7.94	7.94
	Tube Type	Inner-grooved	Inner-grooved	inner grooved	
Refrigerant	Type	R410a	R410a	R410a	
	Volume	kg	16.5	16.5	18
Dimension (D*H*W)	Net	mm	840*1740*1340	840*1740*1340	840*1740*1340
		inches	33.07*68.50*52.76	33.07*68.50*52.76	33.07*68.50*52.76
	Packing	mm	910*1900*1410	910*1900*1410	910*1900*1410
Weight	Net	kg	298	298	306
	Gross	kg	316	316	324
Outdoor Sound Level	dB(A)	63	63	65	
Maximum Operating Pressure	MPa	4.5	4.5	4.5	
PIPING & WIRING DATA					
Pipe Size	Liquid Pipe	mm	Ø15.9	Ø15.9	Ø15.9
	Gas Pipe	mm	Ø28.6	Ø28.6	Ø28.6
Max. Pipe Length	Total Pipe Length	m	1000	1000	1000
	From Ou To Farthest lu(Actual Length)	m	200	200	200
	From Ou To Farthest lu(Equivalent Length)	m	240	240	240
	From 1st Indoor Distributor To Farthest lu	m	90	90	90
Max. Vertical Length	Between Ou & lu(Ou Above lu)	m	100	100	100
	Between Ou & lu(Ou Below lu)	m	110	110	110
	Between lus	m	40	40	40
	Between Ous	m	0	0	0
Connection Wire	Power Wire Size	mm ²	16*5(L≤20m)	16*5(L≤20m)	16*5(L≤20m)
	Signal Wire Type		2-core shielded cable	2-core shielded cable	2-core shielded cable
	Signal Wire Size	mm ²	0.75	0.75	0.75
OPERATION TEMPERATURE RANGE					
Cooling	Outdoor Side	°C / °F	-15~55 / 5~131	-15~55 / 5~131	-15~55 / 5~131
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

*The above data may be changed without notice for future improvement.



Orbitseries™

CC-VAC COOLING ONLY · 380-415V · 26/28/30HP

MODEL		CC-VAC026-3PS1	CC-VAC028-3PS1	CC-VAC030-3PS1	
POWER SUPPLY		380~415V-3PH-50Hz/60Hz	380~415V-3PH-50Hz/60Hz	380~415V-3PH-50Hz/60Hz	
CAPACITY	HP	26HP	28HP	30HP	
	kW	Tl:73/T3:62	Tl:80/T3:66.73	Tl:85/T3:72.3	
	Btu/h	Tl:249100/T3:211775	Tl:267800/T3:227730	Tl:290000/T3:246587	
	RT	Tl:20.8/T3:17.64	Tl:22.3/T3:18.97	Tl:24.2/T3:20.54	
Power Input	kW	Tl:23.10/T3:23.92	Tl:25.49/T3:26.19	Tl:29.11/T3:30.07	
EER	W/W	Tl:3.16/T3:2.59	Tl:3.08/T3:2.55	Tl:2.92/T3:2.40	
Rated. Input Consumption		kW	32.00	32.00	36.50
Rated. Current		A	53.00	53.00	63.00
Capacity Adjustment Range			50%~130%	50%~130%	50%~130%
COMPRESSOR DATA					
Dc Inverter Compressor	Quantity		2	2	2
	Type		DC /Twin-rotary	DC /Twin-rotary	DC /Twin-rotary
	Frequency Range	rps	10-120	10-120	10-120
Compressor Oil	Model		FV50S	FV50S	FV50S
	Original Oil Volume	ml	2300*2	2300*2	2300*2
	Additional Oil Volume	ml	6000	6000	7000
FAN DATA					
Fan Motor	Type		DC	DC	DC
	Model		DR-310-750-8-1		
	Quantity		2	2	2
	Insulation Class		B	B	B
	Protection Class		IP44	IP44	IP44
	Power Output	W	750	750	920
Fan Blade	Material		ASG20	ASG20	ASG20
	Type		Axial	Axial	Axial
	Drive		Direct-driven	Direct-driven	Direct-driven
	Fan Quantity		2	1	1
Air Flow	m ³ /h	24000	24000	26000	
PHYSICAL DATA					
Outdoor Coil	Fin Type		Hydrophilic	Hydrophilic	Hydrophilic
	Tube Outside Diameter	mm	7.94	7.94	7.94
	Tube Type		Inner-grooved	Inner-grooved	Inner-grooved
Refrigerant	Type		R410a	R410a	R410a
	Volume	kg	20	20	25
Dimension (D*H*W)	Net	mm	840*1740*1990	840*1740*1990	840*1740*1990
		inches	33.07*68.50*78.35	33.07*68.50*78.35	33.07*68.50*78.35
	Packing	mm	910*1900*2060	910*1900*2060	910*1900*2060
Weight	Net	kg	358	358	410
	Gross	kg	376	376	428
Outdoor Sound Level		dB(A)	66	66	67
Maximum Operating Pressure		MPa	4.5	4.5	4.5
PIPING & WIRING DATA					
Pipe Size	Liquid Pipe	mm	Ø15.9	Ø15.9	Ø22.2
	Gas Pipe	mm	Ø28.6	Ø28.6	Ø35
Max. Pipe Length	Total Pipe Length	m	1000	1000	1000
	From Ou To Farthest lu(Actual Length)	m	200	200	200
	From Ou To Farthest lu(Equivalent Length)	m	240	240	240
	From 1st Indoor Distributor To Farthest lu	m	90	90	90
Max. Vertical Length	Between Ou & lu(Ou Above lu)	m	100	100	100
	Between Ou & lu(Ou Below lu)	m	110	110	110
	Between lus	m	40	40	40
	Between Ous	m	0	0	0
Connection Wire	Power Wire Size	mm ²	16*5(L≤20m)	16*5(L≤20m)	25*5(L≤20m)
	Signal Wire Type		2-core shielded cable	2-core shielded cable	2-core shielded cable
	Signal Wire Size	mm ²	0.75	0.75	0.75
OPERATION TEMPERATURE RANGE					
Cooling	Outdoor Side	°C / °F	-15~55 / 5~131	-15~55 / 5~131	-15~55 / 5~131
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

*The above data may be changed without notice for future improvement.

Orbitseries™



CC-VAH

CC-VAH HEAT · 8/10/12HP

Orbitseries™



MODEL		CC-VAH008-3PST	CC-VAH010-3PST	CC-VAH012-3PST
POWER SUPPLY		380~415V-3PH-50Hz/60Hz	380~415V-3PH-50Hz/60Hz	380~415V-3PH-50Hz/60Hz
COOLING CAPACITY	HP	8HP	10HP	12HP
	kW	25.2	28	33.5
	Btu/h	86000	95500	114000
	RT	7.2	8	9.5
Rated Current	A	9.04	11.30	14.51
Power Input	kW	5.31	6.22	8.35
EER	W/W	4.75	4.5	4.01
HEATING CAPACITY	kW	27.4	31.5	37.5
	Btu/h	93500	107500	128000
	RT	7.8	9	10.7
	Rated Current	A	8.93	11.25
Power Input	kW	4.98	5.86	7.35
COP	W/W	5.5	5.38	5.1
Max. Input Consumption	kW	13.4	14.3	14.8
Max. Current	A	23.1	24.7	25.5
Capacity Adjustment Range		50%~130%	50%~130%	50%~130%

COMPRESSOR DATA					
Dc Inverter Compressor	Quantity		1	1	1
	Type		Scroll Compressor	Scroll Compressor	Scroll Compressor
	Running Frequency Range	Hz	45~420	45~420	45~420
	Rotate Speed Range	rps	15~140	15~140	15~140
	Crankcase Heater	W	35	35	35
Compressor Oil	Model		FV-68H	FV-68H	FV-68H
	Original Oil Volume	ml	1100 per compressor	1100 per compressor	1100 per compressor
	Additional Oil Volume	ml	5000 per compressor	5000 per compressor	5000 per compressor

FAN DATA					
Fan Motor	Type		DC	DC	DC
	Model			DR-310-750-8-1	
	Quantity		1	1	1
	Insulation Class		B	B	B
	Rated Speed	rpm	840	840	840
Fan Blade	Power Output	W	750	750	750
	Material		ABS	ABS	ABS
	Type		Axial	Axial	Axial
	Drive		Direct-driven	Direct-driven	Direct-driven
	Fan Quantity		1	1	1
Air Flow	m ³ /h	11000	11000	12000	

PHYSICAL DATA					
Outdoor Coil	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
	Fin Thickness	mm	0.095	0.095	0.095
	Distance Between The Fins	mm	1.6	1.6	1.6
	Tube Outside Diameter	mm	Ø7.94	Ø7.94	Ø7.94
Refrigerant	Tube Type		Inner-grooved copper tube	Inner-grooved copper tube	Inner-grooved copper tube
	Type		R410a	R410a	R410a
	Volume	kg	9	9	11
Dimension (D*H*W)	Throttle Type		EXV	EXV	EXV
	Net	mm	990*1740*840	990*1740*840	990*1740*840
		in	38.98x68.50x33.07	38.98x68.50x33.07	38.98x68.50x33.07
Packing	mm	1060×1900×910	1060×1900×910	1060×1900×910	
Weight	Net /Gross	kg	228/240	228/240	230/242
Outdoor Sound Level		dB(A)	58	58	60
Maximum Operating Pressure		MPa	4.5	4.5	4.5

PIPING & WIRING DATA					
Pipe Size	Liquid Pipe	mm	Ø12.7	Ø12.7	Ø12.7
	Gas Pipe	mm	Ø22.2	Ø22.2	Ø22.2
Max. Pipe Length	Total Pipe Length	m	1000	1000	1000
	From Ou To Farthest lu(Actual Length)	m	200	200	200
	Ou To Farthest lu(Equivalent Length)	m	240	240	240
	From 1st Indoor Distributor To Farthest lu	m	40/90	40/90	40/90
	Between Ou & lu(Ou Above lu)	m	100	100	100
Max. Vertical Length	Between Ou & lu(Ou Below lu)	m	110	110	110
	Between lus	m	40	40	40
	Between Ous	m	0	0	0
	Connection Wire	Power Wire Size	mm ²	6*5(L≤20m)	6*5(L≤20m)
			10*5(20m<L≤50m)	10*5(20m<L≤50m)	10*5(20m<L≤50m)
Signal Wire Type			2-core shielded cable	2-core shielded cable	2-core shielded cable
Signal Wire Size		mm ²	0.75	0.75	0.75

OPERATION TEMPERATURE RANGE					
Cooling	Outdoor Side	°C / °F	-5~55 / 23~131	-5~55 / 23~131	-5~55 / 23~131
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90
Heating	Outdoor Side	°C / °F	-30~30 / -22~86	-30~30 / -22~86	-30~30 / -22~86
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

Notes: 1. Cooling operating temperature range is from -5°C to 55°C (It can be customized down to -10°C). Heating operating temperature range is from -30°C to 30°C. 2. The cooling conditions: indoor side 27°C(80.6°F) DB, 19°C(60°F)WB outdoor side 35°C(95°F) DB. 3. The heating conditions: indoor side 20°C(68°F) DB, 15°C(44.6°F)WB outdoor side 7°C(42.8°F)DB. 4. Sound level: measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions. 5. The above data may be changed without notice for future improvement on quality and performance.



MODEL		CC-VAH014-3PS1	CC-VAH016-3PS1	CC-VAH018-3PS1
POWER SUPPLY		380~415V-3PH-50Hz/60Hz	380~415V-3PH-50Hz/60Hz	380~415V-3PH-50Hz/60Hz
COOLING CAPACITY	HP	14HP	16HP	18HP
	kW	40	45	50
	Btu/h	136500	153500	170600
	RT	11.4	12.8	14.2
Rated Current	A	18.10	21.60	23.29
Power Input	kW	9.76	11.63	12.22
EER	W/W	4.1	3.87	4.09
HEATING CAPACITY	kW	45	50	56
	Btu/h	153500	170600	191000
	RT	12.8	14.2	16
	Rated Current	A	18.00	20.25
Power Input	kW	9.34	10.87	11.89
COP	W/W	4.82	4.6	4.71

Max. Input Consumption	kW	18.3	18.8	22.0
Max. Current	A	30.8	31.7	37.4
Capacity Adjustment Range		50%~130%	50%~130%	50%~130%

COMPRESSOR DATA					
Dc Inverter Compressor	Quantity		1	1	1
	Type		Scroll Compressor	Scroll Compressor	Scroll Compressor
	Running Frequency Range	Hz	30~390	30~390	30~390
	Rotate Speed Range	rps	10~130	10~130	10~130
	Crankcase Heater	W	40	40	40
Compressor Oil	Model		FV-68H	FV-68H	FV-68H
	Original Oil Volume	ml	1100 per compressor	1100 per compressor	1100 per compressor
	Additional Oil Volume	ml	6000 per compressor	6000 per compressor	6000 per compressor

FAN DATA					
Fan Motor	Type		DC	DC	DC
	Model		DR-310-920-8	DR-310-920-8	DR-310-560-8-1
	Quantity		1	1	2
	Insulation Class		B	B	B
	Rated Speed	rpm	920	920	880
Fan Blade	Power Output	W	920	920	560*2
	Material		ABS	ABS	ABS
	Type		Axial	Axial	Axial
	Drive		Direct-driven	Direct-driven	Direct-driven
	Fan Quantity		1	1	2
Air Flow		m ³ /h	14000	14000	16000

PHYSICAL DATA					
Outdoor Coil	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
	Fin Thickness	mm	0.095	0.095	0.095
	Distance Between The Fins	mm	1.6	1.6	1.6
	Tube Outside Diameter	mm	Ø7.94	Ø7.94	Ø7.94
	Tube Type		Inner-grooved copper tube	Inner-grooved copper tube	Inner-grooved copper tube
Refrigerant	Type		R410a	R410a	R410a
	Volume	kg	14	14	15
	Throttle Type		EXV	EXV	EXV
Dimension (D*H*W)	Net	mm	1340*1740*840	1340*1740*840	1340*1740*840
		in	52.76x68.50x33.07	52.76x68.50x33.07	52.76x68.50x33.07
Packing	mm	1410x1900x910	1410x1900x910	1410x1900x910	
Weight	Net/Gross	kg	275/293	275/293	285/303
Outdoor Sound Level		dB(A)	60	61	62
Maximum Operating Pressure		MPa	4.5	4.5	4.5

PIPING & WIRING DATA					
Pipe Size	Liquid Pipe	mm	Ø15.88	Ø15.88	Ø15.88
	Gas Pipe	mm	Ø28.6	Ø28.6	Ø28.6
Max. Pipe Length	Total Pipe Length	m	1000	1000	1000
	From Ou To Farthest lu(Actual Length)	m	200	200	200
	Ou To Farthest lu(Equivalent Length)	m	240	240	240
	From 1st Indoor Distributor To Farthest lu	m	40/90	40/90	40/90
	Between Ou & lu(Ou Above lu)	m	100	100	100
Max. Vertical Length	Between Ou & lu(Ou Below lu)	m	110	110	110
	Between lus	m	40	40	40
	Between Ous	m	0	0	0
Connection Wire	Power Wire Size	mm ²	10*5(L≤20m)	10*5(L≤20m)	16*5(L≤20m)
			16*5(20m<L≤50m)	16*5(20m<L≤50m)	25*5(20m<L≤50m)
	Signal Wire Type		2-core shielded cable	2-core shielded cable	2-core shielded cable
	Signal Wire Size	mm ²	0.75	0.75	0.75

OPERATION TEMPERATURE RANGE					
Cooling	Outdoor Side	°C / °F	-5~55 / 23~131	-5~55 / 23~131	-5~55 / 23~131
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90
Heating	Outdoor Side	°C / °F	-30~30 / -22~86	-30~30 / -22~86	-30~30 / -22~86
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

Notes: 1. Cooling operating temperature range is from -5°C to 55°C (It can be customized down to -10°C). Heating operating temperature range is from -30°C to 30°C. 2. The cooling conditions: indoor side 27°C(80.6°F) DB, 19°C(60°F)WB outdoor side 35°C(95°F) DB. 3. The heating conditions: indoor side 20°C(68°F) DB, 15°C(44.6°F)WB outdoor side 7°C(42.8°F)DB. 4. Sound level: measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions. 5. The above data may be changed without notice for future improvement on quality and performance.



MODEL		CC-VAH020-3P51	CC-VAH022-3P51	CC-VAH024-3P51
POWER SUPPLY		380~415V-3PH-50Hz/60Hz	380~415V-3PH-50Hz/60Hz	380~415V-3PH-50Hz/60Hz
COOLING CAPACITY	HP	20HP	22HP	24HP
	kW	56	61.5	67
	Btu/h	191000	209800	228600
	RT	16	17.5	19.1
Rated Current	A	26.10	29.06	29.09
Power Input	kW	14.66	16.62	16.71
EER	W/W	3.82	3.70	4.01
HEATING CAPACITY	kW	63	69	75
	Btu/h	214900	235400	255900
	RT	18	19.7	21.3
	Rated Current	A	25.70	28.40
Power Input	kW	14.16	16.80	14.72
COP	W/W	4.45	4.11	5.10

Max. Input Consumption	kW	24.4	25.0	26.2
Max. Current	A	41.1	42.1	43.2
Capacity Adjustment Range		50%~130%	50%~130%	50%~130%

COMPRESSOR DATA					
Dc Inverter Compressor	Quantity		1	1	2
	Type		Scroll Compressor	Scroll Compressor	Scroll Compressor
	Running Frequency Range	Hz	30~390	30~390	45~420
	Rotate Speed Range	rps	10~130	10~130	10~130
Compressor Oil	Crankcase Heater	W	40	40	35*2
	Model		FV-68H	FV-68H	FV68H
	Original Oil Volume	ml	1100 per compressor	1100 per compressor	1100 per compressor
	Additional Oil Volume	ml	7000 per compressor	7000 per compressor	3500 per compressor

FAN DATA					
Fan Motor	Type		DC	DC	DC
	Model		DR-310-560-8-1	DR-310-560-8-1	DR-310-750-8-1
	Quantity		2	2	2
	Insulation Class		B	B	B
	Rated Speed	rpm	880	880	840
	Power Output	W	560*2	560*2	750*2
Fan Blade	Material		ABS	ABS	ABS
	Type		Axial	Axial	Axial
	Drive		Direct-driven	Direct-driven	Direct-driven
	Fan Quantity		2	2	2
	Air Flow	m3/h	16000	16000	25000

PHYSICAL DATA					
Outdoor Coil	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
	Fin Thickness	mm	0.095	0.095	0.095
	Distance Between The Fins	mm	1.6	1.6	1.6
	Tube Outside Diameter	mm	Ø7.94	Ø7.94	Ø7.94
	Tube Type		Inner-grooved copper tube	Inner-grooved copper tube	Inner-grooved copper tube
Refrigerant	Type		R410a	R410a	R410a
	Volume	kg	16	16	16
	Throttle Type		EXV	EXV	EXV
Dimension (D*H*W)	Net	mm	1340*1740*840	1340*1740*840	1990*1740*840
		in	52.76x68.50x33.07	52.76x68.50x33.07	78.35x68.50x33.07
	Packing	mm	1410x1900x910	1410x1900x910	2060x1900x910
Weight	Net/Gross	kg	290/308	297/315	388/406
Outdoor Sound Level		dB(A)	63	63	62
Maximum Operating Pressure		MPa	4.5	4.5	4.5

PIPING & WIRING DATA					
Pipe Size	Liquid Pipe	mm	Ø15.88	Ø15.88	Ø15.88
	Gas Pipe	mm	Ø28.6	Ø28.6	Ø28.6
Max. Pipe Length	Total Pipe Length	m	1000	1000	1000
	From Ou To Farthest lu(Actual Length)	m	200	200	200
	Ou To Farthest lu(Equivalent Length)	m	240	240	240
	From 1st Indoor Distributor To Farthest lu	m	40/90	40/90	40/90
	Between Ou & lu(Ou Above lu)	m	100	100	100
Max. Vertical Length	Between Ou & lu(Ou Below lu)	m	110	110	110
	Between lus	m	40	40	40
	Between Ous	m	0	0	0
	Connection Wire	Power Wire Size	mm2	16*5(L≤20m) 25*5(20m<L≤50m)	16*5(L≤20m) 25*5(20m<L≤50m)
	Signal Wire Type		2-core shielded cable	2-core shielded cable	2-core shielded cable
	Signal Wire Size	mm2	0.75	0.75	0.75

OPERATION TEMPERATURE RANGE					
Cooling	Outdoor Side	°C / °F	-5~55 / 23~131	-5~55 / 23~131	-5~55 / 23~131
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90
Heating	Outdoor Side	°C / °F	-30~30 / -22~86	-30~30 / -22~86	-30~30 / -22~86
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

Notes: 1. Cooling operating temperature range is from -5°C to 55°C (It can be customized down to -10°C). Heating operating temperature range is from -30°C to 30°C. 2. The cooling conditions: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB outdoor side 35°C(95°F) DB. 3. The heating conditions: indoor side 20°C(68°F) DB, 15°C(44.6°F) WB outdoor side 7°C(42.8°F) DB. 4. Sound level: measured at a point 1m in front of the unit at a height of 1.5m. During actual operation, these values are normally somewhat higher as a result of ambient conditions. 5. The above data may be changed without notice for future improvement on quality and performance.



MODEL		CC-VAH026-3PS1	CC-VAH028-3PS1	CC-VAH030-3PS1	CC-VAH032-3PS1
POWER SUPPLY		380-415V-3PH-50Hz/60Hz	380-415V-3PH-50Hz/60Hz	380-415V-3PH-50Hz/60Hz	380-415V-3PH-50Hz/60Hz
COOLING CAPACITY	HP	26HP	28HP	30HP	32HP
	kW	73	78.5	85	90
	Btu/h	249100	267800	290000	307100
	RT	20.8	22.3	24.2	25.6
Rated Current	A	32.59	36.13	40.36	44.73
Power Input	kW	18.18	20.03	22.37	24.79
EER	W/W	4.02	3.92	3.80	3.63
HEATING CAPACITY	kW	81.5	87.5	95	100
	Btu/h	278100	298600	324100	341200
	RT	23.2	24.88	27.0	28.4
	Rated Current	A	30.28	33.38	38.52
Power Input	kW	16.78	18.50	21.35	24.33
COP	W/W	4.86	4.73	4.45	4.11

Max. Input Consumption	kW	30.1	30.7	35.8	37.7
Max. Current	A	50.8	51.8	60.4	63.6
Capacity Adjustment Range		50%~130%	50%~130%	50%~130%	50%~130%

COMPRESSOR DATA						
Dc Inverter Compressor	Quantity		2	2	1+1	1+1
	Type		Scroll Compressor	Scroll Compressor	Scroll Compressor	Scroll Compressor
	Running Freq. Range	Hz	45~420	45~420	45~420 / 30~390	45~420 / 30~390
	Rotate Speed Range	rps	15~140	15~140	15~140 / 10~130	15~140 / 10~130
	Crankcase Heater	W	35*2	35*2	35+40	35+40
Compressor Oil	Model		FV68H	FV68H	FV68H	FV68H
	Original Oil Volume	ml	1100 per compressor	1100 per compressor	1100 per compressor	1100 per compressor
	Add. Oil Volume	ml	5000 per compressor	5000 per compressor	5000 per compressor	5000 per compressor

FAN DATA						
Fan Motor	Type		DC	DC	DC	DC
	Model		DR-310-920-8	DR-310-920-8	DR-310-920-8	DR-310-920-8
	Quantity		2	2	2	2
	Insulation Class		B	B	B	B
	Rated Speed	rpm	920	920	920	920
	Power Output	W	920*2	920*2	920*2	920*2
Fan Blade	Material		ABS	ABS	ABS	ABS
	Type		Axial	Axial	Axial	Axial
	Drive		Direct-driven	Direct-driven	Direct-driven	Direct-driven
	Fan Quantity		2	2	2	2
	Air Flow	m3/h	25000	25000	24000	24000

PHYSICAL DATA						
Outdoor Coil	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
	Fin Thickness	mm	0.095	0.095	0.095	0.095
	Dist. Between/Fins	mm	1.6	1.6	1.6	1.6
	Tube Outside Diam.	mm	Ø7.94	Ø7.94	Ø7.94	Ø7.94
Refrigerant	Tube Type		Inner-grooved copper tube			
	Type		R410a	R410a	R410a	R410a
	Volume	kg	20	20	23	23
	Throttle Type		EXV	EXV	EXV	EXV
Dimension (D*H*W)	Net	mm	1990*1740*840	1990*1740*840	1990*1740*840	1990*1740*840
		in	78.35x68.50x33.07	78.35x68.50x33.07	78.35x68.50x33.07	78.35x68.50x33.07
	Packing	mm	2060*1900*910	2060*1900*910	2060*1900*910	2060*1900*910
Weight	Net/Gross	kg	433/452	433/452	480/498	480/498
Outdoor Sound Level		dB(A)	63	63	64	64
Maximum Operating Pressure		MPa	4.5	4.5	4.5	4.5

PIPING & WIRING DATA						
Pipe Size	Liquid Pipe	mm	Ø22.2	Ø22.2	Ø22.2	Ø22.2
	Gas Pipe	mm	Ø35	Ø35	Ø35	Ø35
Max. Pipe Length	Total Pipe Length	m	1000	1000	1000	1000
	Ou To Farthest lu(Actual Length)		200m	200	200	200
	Ou To Farthest lu(Equivalent Length)		240m	240m	240m	240m
	1st Indoor Distributor To Farthest lu		40/90m	40/90m	40/90m	40/90m
Max. Vertical Length	Between Ou & lu(Ou Above lu)		100m	100m	100m	100m
	Between Ou & lu(Ou Below lu)		110m	110m	110m	110m
	Between lus		40m	40m	40m	40m
	Between Ous		0	0	0	0
Connection Wire	Power Wire Size	mm2	16*5(L≤20m) 25*5(20m<L≤50m)	16*5(L≤20m) 25*5(20m<L≤50m)	25*5(L≤20m) 35*5(20m<L≤50m)	25*5(L≤20m) 35*5(20m<L≤50m)
	Signal Wire Type		2-core shielded cable	2-core shielded cable	2-core shielded cable	2-core shielded cable
	Signal Wire Size	mm2	0.75	0.75	0.75	0.75

OPERATION TEMPERATURE RANGE						
Cooling	Outdoor Side	°C / °F	-5~55 / 23~131	-5~55 / 23~131	-5~55 / 23~131	-5~55
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32
Heating	Outdoor Side	°C / °F	-30~30 / -22~86	-30~30 / -22~86	-30~30 / -22~86	-30~30
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32

Notes: 1. Cooling operating temperature range is from -5°C to 55°C (It can be customized down to -10°C). Heating operating temperature range is from -30°C to 30°C. 2. The cooling conditions: indoor side 27°C(80.6°F) DB, 19°C(66°F)WB outdoor side 35°C(95°F) DB. 3. The heating conditions: indoor side 20°C(68°F) DB, 15°C(44.6°F)WB outdoor side 7°C(42.8°F) DB. 4. Sound level: measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions. 5. The above data may be changed without notice for future improvement on quality and performance.

Orbitseries™

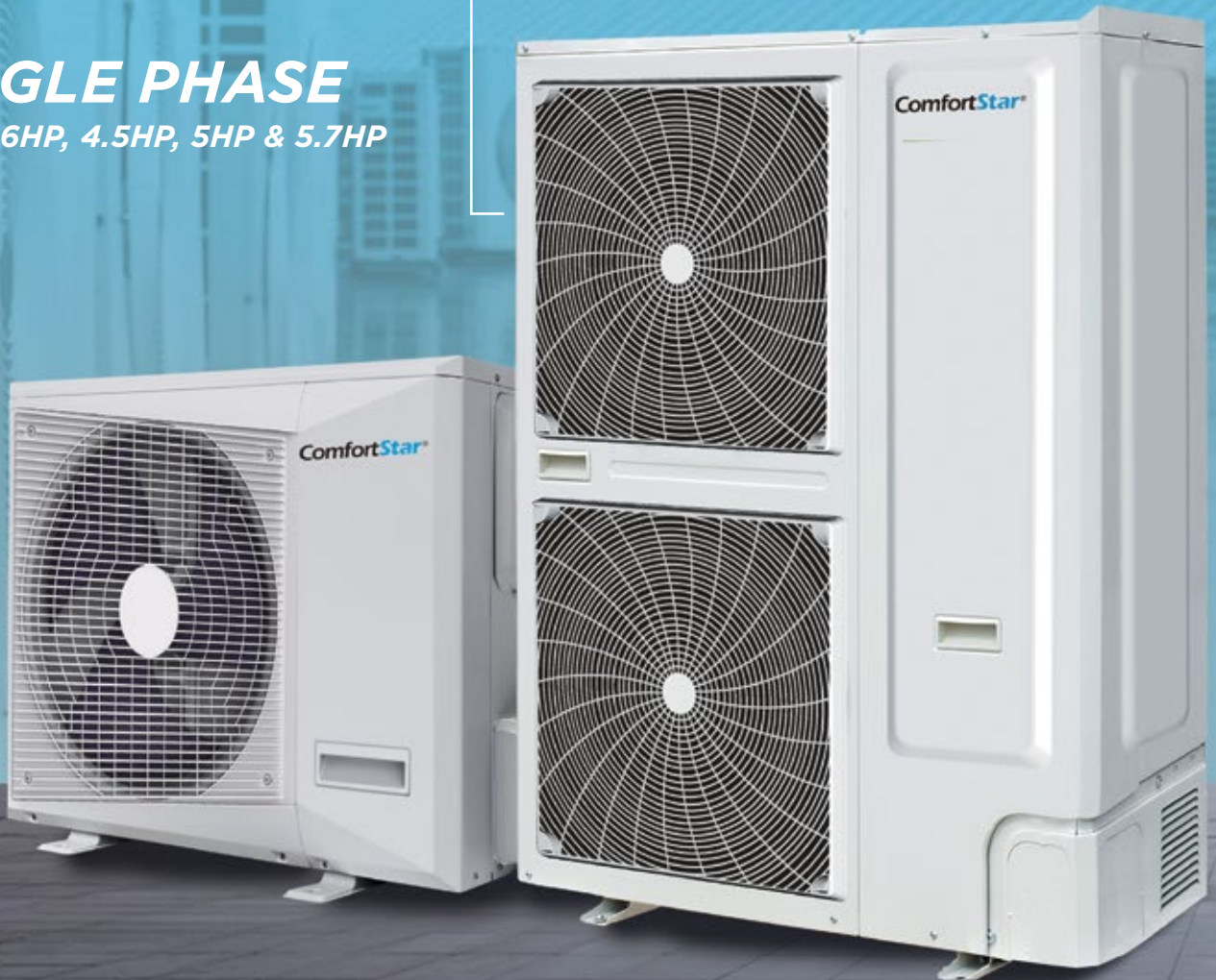
ORBIT MINI-VRF MODELS

SINGLE PHASE

3HP, 3.6HP, 4.5HP, 5HP & 5.7HP

THREE PHASE

*6.5HP, 7HP, 8HP, 9HP, 10HP,
12.5HP, 14HP & 16HP*



Orbitseries™

ENERGY EFFICIENT AIR CONDITIONING FOR LIGHT COMMERCIAL AND RESIDENTIAL APPLICATIONS

WIDE RANGE CAPACITY

The outdoor unit capacity ranges from 3HP to 5.7 HP for single phase series, and 6.5HP to 16HP for three phase.

CS-MAH - MAIN FEATURES

- DC Inverter Compressor
- DC Fan Motor
- Capacity up to 16HP
- Connects up to 12 Indoor Units
- Precise oil control technology
- Advanced silence technology
- Intelligent defrosting technology
- Simple communication wiring
- Auto Addressing
- Easy Maintenance

ComfortStar®

Orbitseries™

INSTALLATION AND SERVICE FEATURES

DC INVERTER COMPRESSOR

DC TWIN-ROTARY COMPRESSOR

- High quality
- Low vibration
- Low noise
- Longer life
- High efficiency
- High reliability
- Flexible frequency



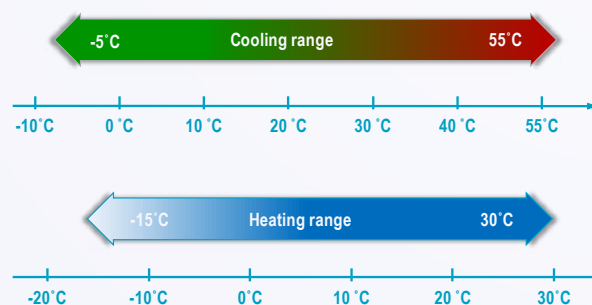
DC FAN MOTOR | DC BRUSHLESS FAN MOTOR

- High quality
- Low vibration
- Low noise
- Longer life
- High efficiency
- High reliability
- Flexible speed



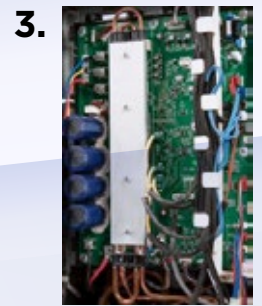
WIDE AMBIENT TEMPERATURE RANGE

- Heating operating temperature is down to -15°C .
- Due to refrigerant-cooling design, the max. ambient temperature is up to 55°C in cooling mode.



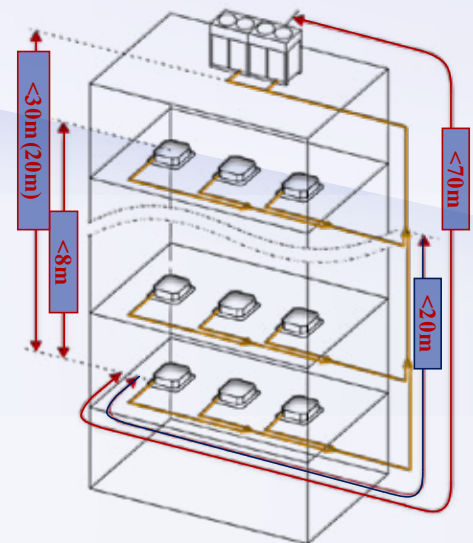
ELECTRIC CONTROL

1. High Quality PCB which decreases maintenance costs.
2. Convenient error code check.
3. Refrigerant cooling design protects PCB.



PIPE AND HEIGHT LENGTH

- The total pipe length: **120 m**
- The longest pipe length: **60/70m**
- Height deference:
- Outdoor unit above $\leq 30\text{m}$
- Outdoor unit below $\leq 20\text{m}$
- Height difference between indoor units: **8m**
- Length from first indoor distributor to last indoor unit: **20m**
- Communication wire length can be up to **1000m**



MODE RESTRICTION

- **7 MODE RESTRICTION**
 - Auto mode
 - Cooling priority mode
 - Heating priority mode
 - First start mode
 - Cooling only mode
 - Heating only mode
- Mode restriction function can be selected on the outdoor display board.



MINI VRF (1PH) · 3/3.6/4.5HP

Orbitseries™



MODEL		CC-MAH002-2S1	CC-MAH004-2S1	CC-MAH005-2S1
POWER SUPPLY		220~240V/1PH/50Hz/60Hz	220~240V/1PH/50Hz/60Hz	220~240V/1PH/50Hz/60Hz
COOLING CAPACITY	HP	3	3.6	4.5
	kW	8	10	12.5
	Btu/h	27300	34100	42600
	RT	2.27	2.84	3.55
Power Input	kW	2.60	3.00	3.20
Rated Current	A	11.8	13.6	14.5
EER	W/W	3.08	3.33	3.91
HEATING CAPACITY	kW	9	11	14
	Btu/h	30700	37500	47800
	RT	2.56	3.13	3.98
Power Input	kW	2.65	3.1	3.52
Rated Current	A	12	14	16.1
COP	W/W	3.40	3.55	3.98
Max. Input Consumption	kW	3.96	4.4	7.48
Max. Current	A	18	20	34
Capacity Adjustment Range		50%~130%	50%~130%	50%~130%

COMPRESSOR DATA					
Dc Inverter Compressor	Quantity		1	1	1
	Type		Twin-rotary Compressor	Twin-rotary Compressor	Twin-rotary Compressor
	Running Frequency Range	Hz	SNB200FGMMC	ATM240D57UMT	MNB40FEQMC
	Rotate Speed Range	rps	10~120	10~120	10~120
Compressor Oil	Crankcase Heater	W	25	35	35
	Model		FV50S	VG74	FV50S
	Original Oil Volume	ml	400	670	1100

FAN DATA					
Fan Motor	Type		DC	DC	DC
	Model		DRN-310-75-8	DRN-310-90-8	DR-310-180-8
	Quantity		1	1	1
	Insulation Class		B	B	E
	Protection Class		IPX4	IPX4	IP44
Fan Blade	Power Output	W	75	90	180
	Material		ASG20	ASG20	ASG20
	Type		Axial	Axial	Axial
	Drive		Direct-driven	Direct-driven	Direct-driven
	Fan Quantity		1	1	1
	Air Flow	m ³ /h	3300	4000	5500

PHYSICAL DATA					
Outdoor Coil	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
	Tube Diameter	mm	Ø7	Ø9.52	Ø7
	Number Of Rows		3	2	2
	Coil Length X Height X Width	mm	784×630×40.11	1003×750×43.3	1145×798×38.8
Refrigerant	Tube Type		Inner-grooved copper tube	Inner-grooved copper tube	Inner-grooved copper tube
	Type		R410a	R410a	R410a
	Volume	kg	2	2.6	3
Dimension (D*H*W)	Throttle Type		EXV	EXV	EXV
	Net	mm	935×702×383	1032×810×445	1100×870×528
		in	36.81×27.64×15.08	40.63×31.89×17.52	43.31×34.25×20.79
Weight	Packing	mm	975×770×420	1075×875×495	1140×965×540
Outdoor Sound Level	Net/Gross	kg	47/50	60/65	85/95
Maximum Operating Pressure		dB(A)	≤54	≤56	≤56
		MPa	4.5	4.5	4.5

PIPING & WIRING DATA					
Pipe Size	Liquid Pipe	mm	Ø9.52	Ø9.52	Ø9.52
	Gas Pipe	mm	Ø15.88	Ø15.88	Ø15.88
Max. Pipe Length	Total pipe length	m	100	100	100
	From OU to farthest IU	m	70	70	70
	From 1st indoor distributor to farthest IU	m	20	20	20
Max. Vertical Length	Between OU & IU (OU above IU)	m	30	30	30
	Between OU & IU (OU below IU)	m	20	20	20
	Between IUs	m	8	8	8
Connection Wire	Power wire size	mm ²	3×4.0	3×4.0	3×6.0
	Signal wire type		2-core shielded cable	2-core shielded cable	2-core shielded cable
	Signal wire size	mm ²	1.0	1.0	1.0

OPERATION TEMPERATURE RANGE					
Cooling	Outdoor Side	°C / °F	-5~55 / 23~131	-5~55 / 23~131	-5~55 / 23~131
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90
Heating	Outdoor Side	°C / °F	-15~30 / 5~86	-15~30 / 5~86	-15~30 / 5~86
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

Notes: 1. Cooling operating temperature range is from -5°C to 55°C (It can be customized down to -10°C). Heating operating temperature range is from -30°C to 30°C. 2. The cooling conditions: indoor side 27°C(80.6°F) DB, 19°C(60°F)WB outdoor side 35°C(95°F) DB. 3. The heating conditions: indoor side 20°C(68°F) DB, 15°C(44.6°F)WB outdoor side 7°C(42.8°F)DB. 4. Sound level: measured at a point 1m in front of the unit at a height of 1.5m. During actual operation, these values are normally somewhat higher as a result of ambient conditions. 5. The above data may be changed without notice for future improvement on quality and performance.

MINI VRF (1PH) · 5/5.7HP

Orbitseries™



MODEL		CC-MAH006-2S1	CC-MAH007-2S1
POWER SUPPLY		220~240V/1PH/50Hz/60Hz	220~240V/1PH/50Hz/60Hz
COOLING CAPACITY	HP	5	5.7
	kW	14	16
	Btu/h	47800	54600
	RT	3.98	4.55
Rated Current	kW	3.75	4.75
Power Input	A	17.0	21.8
EER	W/W	3.73	3.37
HEATING CAPACITY	kW	16	17
	Btu/h	54600	58000
	RT	4.55	4.83
	Power Input	kW	4
Rated Current	A	18.2	20
COP	W/W	4.00	3.86
Max. Input Consumption	kW	7.48	7.48
Max. Current	A	34	34
Capacity Adjustment Range		50%~130%	50%~130%

COMPRESSOR DATA

Dc Inverter Compressor	Quantity		1	1
	Type		Twin-rotary Compressor	Twin-rotary Compressor
	Running Frequency Range	Hz	MNB40FEQMC	MNB40FEQMC
	Rotate Speed Range	rps	10~120	10~120
Compressor Oil	Crankcase Heater	W	35	35
	Model		FV50S	FV50S
	Original Oil Volume	ml	1100	1100

FAN DATA

Fan Motor	Type		DC	DC
	Model		DR-310-180-8	DR-310-180-8
	Quantity		1	1
	Insulation Class		E	E
	Protection Class		IP44	IP44
	Power Output	W	180	180
Fan Blade	Material		ASG20	ASG20
	Type		Axial	Axial
	Drive		Direct-driven	Direct-driven
	Fan Quantity		1	1
Air Flow	m ³ /h		5500	5500

PHYSICAL DATA

Outdoor Coil	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum
	Tube Diameter	mm	Ø7	Ø7
	Number Of Rows		3	3
	Coil Length X Height X Width	mm	1145×798×58.2	1145×798×58.2
Refrigerant	Tube Type		Inner-grooved copper tube	Inner-grooved copper tube
	Type		R410a	R410a
	Volume	kg	3.8	3.8
Dimension (D*H*W)	Throttle Type		EXV	EXV
	Net	mm	1100×870×528	1100×870×528
		in	43.31×34.25×20.79	43.31×34.25×20.79
Packing	mm	1140×965×540	1140×965×540	
Weight	Net/Gross	kg	90/100	90/100
Outdoor Sound Level		dB(A)	≤57	≤57
Maximum Operating Pressure		MPa	4.5	4.5

PIPING & WIRING DATA

Pipe Size	Liquid Pipe	mm	Ø9.52	Ø9.52
	Gas Pipe	mm	Ø15.88	Ø15.88
Max. Pipe Length	Total Pipe Length	m	100	100
	From OU to farthest IU	m	70	70
	From 1st indoor distributor to farthest IU	m	20	20
Max. Vertical Length	Between OU & IU(OU above IU)	m	30	30
	Between OU & IU(OU below IU)	m	20	20
	Between IUs	m	8	8
Connection Wire	Power Wire Size	mm ²	3×6.0	3×6.0
	Signal Wire Type		2-core shielded cable	2-core shielded cable
	Signal Wire Size	mm ²	1.0	1.0

OPERATION TEMPERATURE RANGE

Cooling	Outdoor Side	°C / °F	-5~55 / 23~131	-5~55 / 23~131
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90
Heating	Outdoor Side	°C / °F	-15~30 / 5~86	-15~30 / 5~86
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90

Notes: 1. Cooling operating temperature range is from -5°C to 55°C (It can be customized down to -10°C). Heating operating temperature range is from -30°C to 30°C. 2. The cooling conditions: indoor side 27°C(80.6°F) DB, 19°C(60°F) WB outdoor side 35°C(95°F) DB. 3. The heating conditions: indoor side 20°C(68°F) DB, 15°C(44.6°F)WB outdoor side 7°C(42.8°F)DB. 4. Sound level: measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions. 5. The above data may be changed without notice for future improvement on quality and performance.

MINI VRF (3PH D-FAN) · 6.5/7/8/9/10/12HP



MODEL		CC-MAH008-3PS1	CC-MAH009-3PS1	CC-MAH010-3PS1	CC-MAH011-3PS1	CC-MAH012-3PS1	CC-MAH013-3PS1	
POWER SUPPLY		380~415V/3PH/50Hz/60Hz						
COOLING								
COOLING CAPACITY	HP	6.5	7	8	9	10	12	
	kW	18	20	22.4	26	28	33.5	
	Btu/h	61000	68200	76400	88700	95500	114300	
	RT	5.2	5.7	6.4	7.4	8.0	9.5	
Power Input	kW	5.18	5.92	6.75	7.54	8.31	9.46	
EER	W/W	3.47	3.38	3.32	3.45	3.37	3.54	
HEATING								
HEATING CAPACITY	kW	20	22	24	28.5	31.5	37.5	
	Btu/h	68000	75000	81800	97200	107500	128000	
	RT	5.7	6.3	6.8	8.1	9.0	10.7	
Power Input	kW	5.02	5.35	5.62	6.77	8.18	8.99	
COP	W/W	3.98	4.11	4.27	4.21	3.85	4.17	
Max. Input Consumption	kW	7	9.8	10.6	11.5	13	13.8	
Max. Current	A	12.5	15.8	17	19	22.5	24	
Capacity Adjustment Range		50%~130%	50%~130%	50%~130%	50%~130%	50%~130%	50%~130%	
COMPRESSOR DATA								
Dc Inverter Compressor	Quantity		1	1	1	1	1	
	Type		Twin-rotary Compressor					
	Running Frequency Range	Hz	10~120	10~120	10~120	10~120	10~120	
	Crankcase Heater	W	35	35	35	35	35	
Compressor Oil	Model		FV50S	FV50S	FV50S	FV50S	FV50S	
	Original Oil Volume	ml	1400/compressor			2300 per compressor		
FAN DATA								
Fan Motor	Type		DC	DC	DC	DC	DC	
	Model		DR-380-100-8	DR-310-100-8-2	DR-310-100-8-2	DR-310-180-8	DR-310-180-8	DR-310-180-8
	Quantity		2	2	2	2	2	2
	Insulation Class		E	B	B	E	E	E
Power Output	W	100*2	100*2	100*2	180*2	180*2	180*2	
Fan Blade	Material		ASG20	ASG20	ASG20	ASG20	ASG20	ASG20
	Type		Axial	Axial	Axial	Axial	Axial	Axial
	Drive		Direct-driven	Direct-driven	Direct-driven	Direct-driven	Direct-driven	Direct-driven
	Fan Quantity		2	2	2	2	2	2
	Air Flow	m3/h	6000	8000	8000	10000	10000	10000
PHYSICAL DATA								
Outdoor Coil	Fin Type		Hydrophilic Aluminum					
	Tube Diameter	mm	Ø7	Ø7	Ø7	Ø7	Ø7	Ø7
	Tube Type		Inner-grooved copper tube					
Refrigerant	Type		R410a	R410a	R410a	R410a	R410a	R410a
	Volume	kg	4.2	5.3	5.3	6.1	8	8
	Throttle Type		EXV	EXV	EXV	EXV	EXV	EXV
Dimension (D*H*W)	Net	mm	975x1335x400	1015x1430x450	1015x1430x450	1120x1549x528	1120x1549x528	1120x1549x528
	Packing	mm	38.39x52.56x15.75	39.96x56.30x17.72	39.96x56.30x17.72	44.09x60.98x20.79	44.09x60.98x20.79	44.09x60.98x20.79
Weight	Net/Gross	kg	94.7/104.4	112.7/126.8	112.7/126.8	130/162	144/174	144/174
Outdoor Sound Level	dB(A)		58	58	58	60	60	60
Maximum Operating Pressure	MPa		4.5	4.5	4.5	4.5	4.5	4.5
PIPING & WIRING DATA								
Pipe Size	Liquid Pipe	mm	Ø9.52	Ø9.52	Ø9.52	Ø9.52	Ø12.7	Ø12.7
	Gas Pipe	mm	Ø19.05	Ø19.05	Ø19.05	Ø22.2	Ø22.2	Ø22.2
Max. Pipe Length	Total Pipe Length	m	100	100	100	120	120	120
	From Ou To Farthest Iu	m	70	70	70	70	70	70
	1st Indoor Distrib To Farthest Iu	m	20	20	20	20	20	20
Max. Vertical Length	Between Ou & Iu(Ou Above Iu)	m	30	30	30	30	30	30
	Between Ou & Iu(Ou Below Iu)	m	20	20	20	20	20	20
	Between Ius	m	8	8	8	8	8	8
Connection Wire	Power Wire Size	mm2	5x6.0	5x6.0	5x6.0	5x6.0	5x6.0	5x6.0
	Signal Wire Type		3-core shielded cable					
	Signal Wire Size	mm2	1	1	1	1	1	1
OPERATION TEMPERATURE RANGE								
Cooling	Outdoor Side	°C / °F	-5~55 / 23~131	-5~55 / 23~131	-5~55 / 23~131	-5~55 / 23~131	-5~55 / 23~131	-5~55 / 23~131
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90
Heating	Outdoor Side	°C / °F	-20~30 / -4~30	-20~30 / -4~30	-20~30 / -4~30	-20~30 / -4~30	-20~30 / -4~30	-20~30 / -4~30
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

NOTES: Cooling Operation Conditions: Indoor Air Inlet Temperature: 27°C DB / 19°C WB T1; Outdoor Air Inlet Temperature: 35°C DB T3; Outdoor Air Inlet Temperature: 46°C DB
 Heating Operation Conditions: Indoor Air Inlet Temperature: 20.0°C DB; Outdoor Air Inlet Temperature: 7°C DB / 6°C WB
 The company reserves the right to revise product technical parameter without having to notify the clients individually.



MINI VRF (3PH) · 12.5/14/16HP

Orbitseries™

MODEL		CC-MAH005-3PS1	CC-MAH006-3PS1	CC-MAH007-3PS1
POWER SUPPLY		315-380V/3PH/50Hz/60Hz	315-380V/3PH/50Hz/60Hz	315-380V/3PH/50Hz/60Hz
COOLING				
Capacity	kW	12.5	14	16
Power Input	kW	3.2	3.75	4.75
Rated Current	A	6	7	8.8
EER	W/W	3.91	3.73	3.37
HEATING				
CAPACITY	kW	14	16	17
Power Input	kW	3.52	4	4.4
Rated Current	A	6.6	7.5	8.2
COP	W/W	3.98	4	3.86
Max. Input Consumption	W	6300	7000	7500
Max. Current	A	13	15.5	17.5
Capacity Adjustment Range		50%~130%	50%~130%	50%~130%
COMPRESSOR DATA				
Dc Inverter Compressor	Quantity		1	1
	Type		Twin-rotary	Twin-rotary
	Model		ATH307CDPC8DQ	ATH307CDPC8DQ
	frequency range	Hz	15~120	15~120
Compressor Oil	Crankcase heater	W	35	35
	Model		RMM68EA	RMM68EA
	Original oil volume	ml	850	850
			850	1100
FAN DATA				
Fan Motor	Type		DC	DC
	Model		DRN-310-90-8	DR-310-180-8
	Quantity		1	1
	Insulation Class		B	E
Fan Blade	Power Output	W	90	170
	Material		ASG20	ASG20
Fan Blade	Type		Axial	Axial
	Fan Quantity		1	1
	Air Flow	m ³ /h	4000	5500
			5500	5500
PHYSICAL DATA				
Outdoor Coil	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum
	Tube Diameter	mm	9.52	7
	Number Of Rows		2.5	3
	Coil Length X Height X Width	mm	1003*750*43.3+580*750*21.65	1145*798*58.2
Refrigerant	Tube Type		Inner-grooved copper tube	Inner-grooved copper tube
	Type		R410A	R410A
	Volume	kg	3	3.45
Dimension (D*H*W)	Throttle Type		EXV	EXV
	Net	mm	1032*810*445	1100*870*528
in		40.63*34.45x17.52	43.31x34.25x20.79	
Weight	Packing	mm	1075*875*495	1140*965*540
	Net/Gross	kg	67.4/72.2	87.5/97.4
Outdoor Sound Level			90/100	
Maximum Operating Pressure	MPa		≤56	≤57
			4.5	4.5
PIPING & WIRING DATA				
Pipe Size	Liquid Pipe	mm	9.52	9.52
	Gas Pipe	mm	15.88	15.88
Max. Pipe Length	Total Pipe Length	m	100	100
	From Ou To Farthest lu	m	70	70
	From 1st Indoor Distributor/Farthest lu	m	20	20
Max. Vertical Length	Between Ou & lu(Ou Above lu)	m	30	30
	Between Ou & lu(Ou Below lu)	m	20	20
	Between lus	m	8	8
Connection Wire	Power Wire Size	mm ²	5*2.5	5*2.5
	Signal Wire Type		2-core shielded cable	2-core shielded cable
	Signal Wire Size	mm ²	1.0	1.0
OPERATION TEMPERATURE RANGE				
Cooling	Outdoor Side	°C / °F	-5~55 / 23~131	-5~55 / 23~131
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90
Heating	Outdoor Side	°C / °F	-15~30 / 5~86	-15~30 / 5~86
	Indoor Side	°C / °F	16~32 / 61~90	16~32 / 61~90

Notes: 1. Cooling operating temperature range is from -5°C to 55°C (It can be customized down to -10°C). Heating operating temperature range is from -30°C to 30°C. 2. The cooling conditions: indoor side 27°C(80.6°F)DB, 19°C(60°F)WB outdoor side 35°C(95°F)DB. 3. The heating conditions: indoor side 20°C(68°F)DB, 15°C(44.6°F)WB outdoor side 7°C(42.8°F)DB. 4. Sound level: measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions. 5. The above data may be changed without notice for future improvement on quality and performance.

A modern office interior featuring a grid ceiling with recessed lighting. In the foreground, a long white table is surrounded by orange chairs. In the background, there are cubicles with light wood paneling and glass partitions. A prominent feature is a large, vertical green living wall. The overall atmosphere is bright and professional.

Orbitseries™

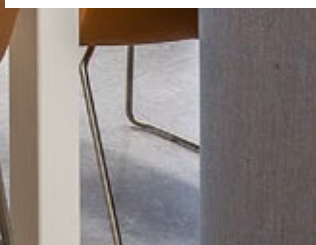
ORBIT VRF INDOOR UNITS



Orbitseries™

A great ORBIT VRF System starts with an adequate selection of VRF indoor units for each particular application.

With 9 model types and more than 100 capacity sizes **ComfortStar ORBIT VRF - Series** indoor units meet all the customer requirements in a wide range of locations, including shopping malls, hospitals, office buildings, hotels and airports.

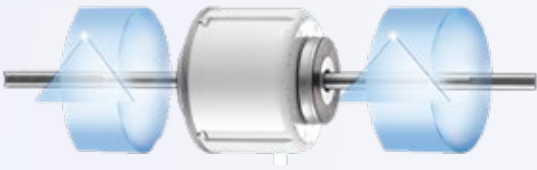


Orbitseries™

INDOOR UNITS COMFORT & EFFICIENCY FEATURES

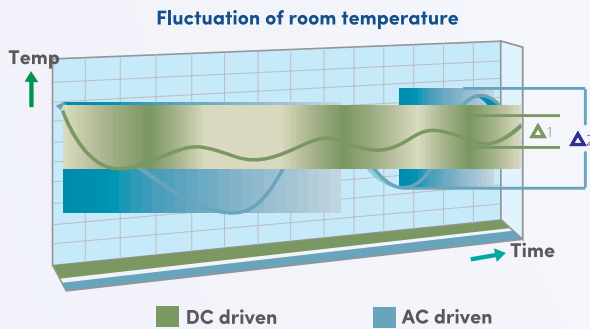
HIGH EFFICIENCY DC FAN MOTOR

The power consumption of the DC fan motor is less in comparison to corresponding AC type.



CONSTANT LEVEL OF INDOOR AIR TEMPERATURE

The DC Inverter fan motor adjusts air flow based on thermal load, this provides less temperature fluctuation and a comfortable temperature.



20 OPTION STATIC PRESSURE CONTROL (DUCT UNIT)

Depending on the environment, there are 10 options for medium static pressure and up to 20 for high static pressure, which can be programmed via the individual remote control.

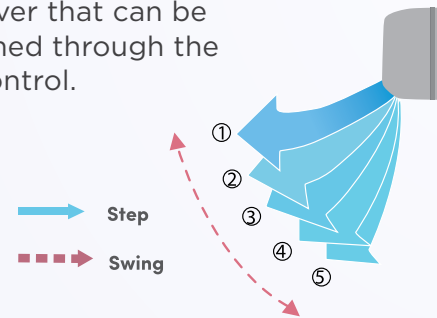
QUIET OPERATION

The low sound operation of the DC fan motor and the optimized fan blades, guarantees quiet air discharge for a comfortable environment.



5-STEP SWING LOUVER

The air flow is spread upwards and downwards thanks to the 5-step swing louver that can be programmed through the remote control.

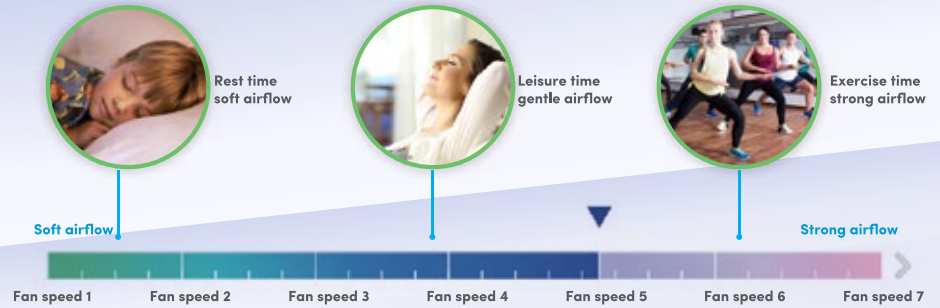


AUTO FAN SPEED MODE

7 fan speeds can be selected automatically according to the temperature difference between set temperature and return air temperature.

7-SPEED FAN CONTROL

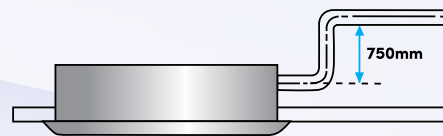
7 indoor fan speeds provides flexibility to meet the needs of different indoor conditions.



CONVENIENCE FEATURES

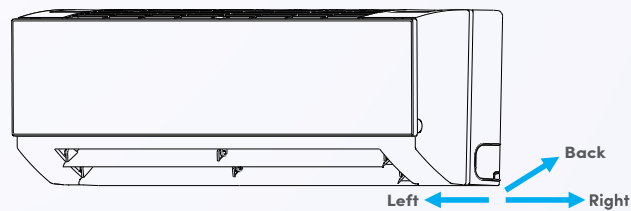
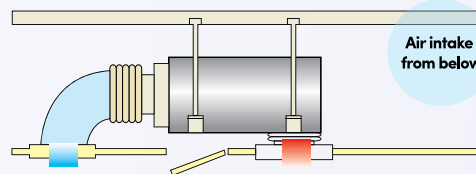
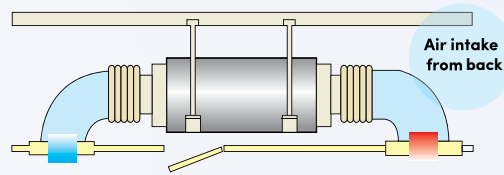
HIGH-LIFT DRAIN PUMP

A drain pump with a 750mm or 500mm pump head is fitted as standard for most models cassette and ducted type indoor units.



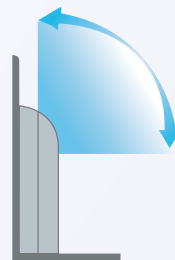
FLEXIBLE INSTALLATION

Medium Static Pressure Duct Units, the air inlet may be positioned either on the underside or the back of the unit.

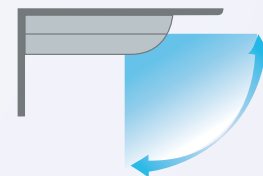


Wall Mounted Units, the refrigerant outlet direction can be left, right or back of the unit. A new wall mount design speeds up installation and provides extra stability.

Floor/Ceiling Units, these can be installed either on the floor or the ceiling, to accommodate a wide range of room designs.



Floor installation



Ceiling installation

CC-KPAA

One-Way Cassette



FEATURES:

- 6 models from 2 to 7 KBtu/hr
- Min. 153mm thickness
- 5-step swing louver
- 7-speed fan control
- Quiet operation
- Fresh air intake
- Built-in EXV
- High-lift drain pump

Accessories

- Grille panel: CC-KP-07-12-1S and CC-KP-16-24-1S



Model			CC-KPAA007-1S	CC-KPAA009-1S	CC-KPAA012-1S
Power Supply			220-240V/1PH/60Hz	220-240V/1PH/60Hz	220-240V/1PH/60Hz
Capacity	Cooling	kW	2.2	2.8	3.6
	Heating	kW	2.5	3.2	4
Power Input		kW	0.05	0.05	0.05
Fan Motor	Model		YSK100-27F-4P3	YSK100-27F-4P3	YSK100-27F-4P3
	Type		AC	AC	AC
	Capacitor	µF	2	2	2
	Speed	r/min	1240/930/640/560	1240/930/640/560	1240/930/640/560
Indoor Coil	Number Of Rows		3	3	3
	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
	Tube Diameter And Type	mm	Ø7,Innergroove Tube	Ø7,Innergroove Tube	Ø7,Innergroove Tube
Air Flow		m ³ /h	520	520	520
Sound Pressure Level		dB(A)	30-36	30-36	30-36
Body	Dimension (W×H×D)	mm	985x513x250	985x513x250	985x513x250
	Dimension (W×H×D)	in	38.78x20.20x9.84	38.78x20.20x9.84	38.78x20.20x9.84
	Packing (W×H×D)	mm	1150×645×275	1150×645×275	1150×645×275
	Net/Gross Weight	kg	24/28	24/28	24/28
Panel	Dimension (W×H×D)	mm	1070×520×50	1070×520×50	1070×520×50
	Dimension (W×H×D)	in	42.13x20.47x1.97	42.13x20.47x1.97	42.13x20.47x1.97
	Packing (W×H×D)	mm	1090×540×65	1090×540×65	1090×540×65
	Net/Gross Weight	kg	3.6/5	3.6/5	3.6/5
Refrigerant Type			R410A	R410A	R410A
Throttle Type			Electrical expansion valve	Electrical expansion valve	Electrical expansion valve
Design Pressure		MPa	4.5	4.5	4.5
Liquid Pipe / Gas Pipe		mm	Ø6.35/ Ø9.52	Ø6.35/ Ø9.52	Ø6.35/ Ø12.7
Connecting Wire	Power Wire	mm ²	2.5*2+2.5(L≤20m) 4*2+2.5(20<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20<L≤50m)
	Signal Wire	mm ²	0.75	0.75	0.75
Drainage Water Pipe (Inner Diameter)		mm	25	25	25
Control	Standard		Remote control	Remote control	Remote control
	Optional		Wired control	Wired control	Wired control
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

Model			CC-KPAA016-1S	CC-KPAA020-1S	CC-KPAA024-1S
Power Supply			220-240V/1PH/60Hz	220-240V/1PH/60Hz	220-240V/1PH/60Hz
Capacity	Cooling	kW	4.5	5.6	7.1
	Heating	kW	5	6.3	8
Power Input		kW	0.07	0.07	0.11
Fan Motor	Model		YSK-23-4	YSK-23-4	YSK110-68F-4P3
	Type		AC	AC	AC
	Capacitor	µF	1.8	1.8	3.5
	Speed	r/min	880/820/730/660	880/820/730/660	1370/1180/920/800
Indoor Coil	Number Of Rows		3	3	3
	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
	Tube Diameter And Type	mm	Ø7,Innergroove Tube	Ø7,Innergroove Tube	Ø7,Innergroove Tube
Air Flow		m ³ /h	610	750	950
Sound Pressure Level		dB(A)	36-41	35-42	38-46
Body	Dimension (W×H×D)	mm	1295x553x290	1295x553x290	1295x553x290
	Dimension (W×H×D)	in	50.98x21.77x11.42	50.98x21.77x11.42	50.98x21.77x11.42
	Packing (W×H×D)	mm	1460×680×305	1460×680×305	1460×680×305
	Net/Gross Weight	kg	35.5/40	35.5/40	35.5/40
Panel	Dimension (W×H×D)	mm	1380x560x50	1380x560x50	1380x560x50
	Dimension (W×H×D)	in	54.33x22.05x1.97	54.33x22.05x1.97	54.33x22.05x1.97
	Packing (W×H×D)	mm	1405×575×70	1405×575×70	1405×575×70
	Net/Gross Weight	kg	5/7	5/7	5/7
Refrigerant Type			R410A	R410A	R410A
Throttle Type			Electrical expansion valve	Electrical expansion valve	Electrical expansion valve
Design Pressure		MPa	4.5	4.5	4.5
Liquid Pipe / Gas Pipe		mm	Ø6.35/ Ø12.7	Ø6.35/ Ø12.7	Ø9.52/ Ø15.88
Connecting Wire	Power Wire	mm ²	2.5*2+2.5(L≤20m) 4*2+2.5(20<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20<L≤50m)
	Signal Wire	mm ²	0.75	0.75	0.75
Drainage Water Pipe (Inner Diameter)		mm	25	25	25
Control	Standard		Remote control	Remote control	Remote control
	Optional		Wired control	Wired control	Wired control
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

CC-WPAA

Two-Way Cassette



FEATURES:

- 4 models from 4.5 to 9 KBtu/h
- Quiet operation
- Built-in EXV
- Two-way air discharge, perfect for limited ceiling space applications
- 5-step swing louver
- 7-speed fan control
- High-lift drain pump with 750mm pump head

Accessories

- Grille panel: CC-WPA07-12-1S AND CC-WPA16-24-1S



Model			CC-WPAA016-1S	CC-WPAA020-1S
Power Supply			220-240V/1PH/60Hz	220-240V/1PH/60Hz
Capacity	Cooling	kW	4.5	5.6
	Heating	kW	5	6.3
Power Input		kW	0.07	0.07
Fan Motor	Model		YSK100-55F-4P3	YSK100-55F-4P3
	Type		AC	AC
	Capacitor	µF	3	3
	Speed	r/min	1290/970/810/710	1290/970/810/710
	Speed	r/min	1310/1000/790/730	1310/1000/790/730
Indoor Coil	Number Of Rows		2	2
	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum
	Tube Diameter And Type	mm	Ø7, Innergroove Tube	Ø7, Innergroove Tube
Air Flow		m3/h	800	800
Sound Pressure Level		dB(A)	36 42	36 42
Body	Dimension (W×H×D)	mm	1068×517×310	1068×517×310
	Dimension (W×H×D)	in	42.05×20.35×12.20	42.05×20.35×12.20
	Packing (W×H×D)	mm	1205×620×350	1205×620×350
	Net/Gross Weight	kg	34.5/38.7	34.5/38.7
	Dimension (W×H×D)	mm	1178×630×44	1178×630×44
Panel	Dimension (W×H×D)	in	46.38×24.80×1.73	46.38×24.80×1.73
	Packing (W×H×D)	mm	1205×655×75	1205×655×75
	Net/Gross Weight	kg	5/7	5/7
	Refrigerant Type		R410A	R410A
Throttle Type			Electrical expansion valve	Electrical expansion valve
Design Pressure		MPa	4.5	4.5
Liquid Pipe / Gas Pipe		mm	Ø6.35/ Ø12.70	Ø6.35/ Ø12.70
Connecting Wire	Power Wire	mm2	2×2.5+2.5mm2 (below 20m) 2×4.0+2.5mm2 (below 50m)	2×2.5+0.25mm2 (below 20m) 2×4.0+2.5mm2 (below 50m)
	Signal Wire	mm2	0.75	0.75
Drainage Water Pipe (Inner Diameter)		mm	20	20
Control	Standard		Remote control	Remote control
	Optional		Wired control	Wired control
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90

Model			CC-WPAA024-1S	CC-WPAA028-1S
Power Supply			220-240V/1PH/60Hz	220-240V/1PH/60Hz
Capacity	Cooling	kW	7.1	8
	Heating	kW	8	9
Power Input		kW	0.1	0.11
Fan Motor	Model		YSK100-68F-4P3	YSK100-68F-4P3
	Type		AC	AC
	Capacitor	µF	3.5	3.5
	Speed	r/min	1360/1150/900/780	1360/1150/900/780
	Speed	r/min	1370/1180/920/800	1370/1180/920/800
Indoor Coil	Number Of Rows		2	2
	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum
	Tube Diameter And Type	mm	Ø7, Innergroove Tube	Ø7, Innergroove Tube
Air Flow		m3/h	1120	1120
Sound Pressure Level		dB(A)	40 46	40 46
Body	Dimension (W×H×D)	mm	1308×517×310	1308×517×310
	Dimension (W×H×D)	in	42.05×20.35×12.20	42.05×20.35×12.20
	Packing (W×H×D)	mm	1445×620×350	1445×620×350
	Net/Gross Weight	kg	41.2/45.6	41.2/45.6
	Dimension (W×H×D)	mm	1420×630×44	1420×630×44
Panel	Dimension (W×H×D)	in	46.38×24.80×1.73	46.38×24.80×1.73
	Packing (W×H×D)	mm	1445×655×75	1445×655×75
	Net/Gross Weight	kg	6/8.5	6/8.5
	Refrigerant Type		R410A	R410A
Throttle Type			Electrical expansion valve	Electrical expansion valve
Design Pressure		MPa	4.5	4.5
Liquid Pipe / Gas Pipe		mm	Ø9.52/ Ø15.88	Ø9.52/ Ø15.88
Connecting Wire	Power Wire	mm2	2×2.5+0.25mm2 (below 20m) 2×4.0+2.5mm2 (below 50m)	2×2.5+0.25mm2 (below 20m) 2×4.0+2.5mm2 (below 50m)
	Signal Wire	mm2	0.75	0.75
Drainage Water Pipe (Inner Diameter)		mm	20	20
Control	Standard		Remote control	Remote control
	Optional		Wired control	Wired control
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90

CC-TCAC

Four-Way Cassette



FEATURES:

- 8 models from 2.2 to 4.5 Kbtu/h
- High efficiency DC fan motor
- 5-step swing louver
- 7-speed fan control
- Quiet operation
- Fresh air intake
- Built-in EXV
- High-lift drain pump with 750mm pump head

Accessories

- Grille panel: CC-CP-1S

Orbitseries

Four-Way Cassette (AC)			CC-TCAC007-1S	CC-TCAC009-1S	CC-TCAC012-1S	CC-TCAC016-1S
Power Supply			220-240V/1PH/60Hz	220-240V/1PH/60Hz	220-240V/1PH/60Hz	220-240V/1PH/60Hz
Capacity	Cooling	kW	2.2	2.8	3.6	4.5
	Heating	kW	2.5	3.2	4	5
Power Input		kW	0.038	0.038	0.04	0.04
Fan Motor	Model		YDK-15Q-6P3	YDK-15Q-6P3	YDK-16Q-6P3	YDK-16Q-6P3
	Type		AC	AC	AC	AC
	Capacitor	µF	2	2	1.5	1.5
	Speed (Hi/Med/Low)	r/min	590/460/360	590/460/360	640/540/440	640/540/440
Indoor Coil	Number Of Rows		2	2	2	2
	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
	Fin Spacing	mm	1.4	1.4	1.4	1.4
	Tube Pitch(A)X Row Pitch(B)	mm	21x13.37	21x13.37	21x13.37	21x13.37
	Tube Type		Inner grooved	Inner grooved	Inner grooved	Inner grooved
	Number Of Circuit		4	4	4	4
Tube Diameter	mm	Φ7	Φ7	Φ7	Φ7	
Air Flow	m ³ /h		447/338/258	447/338/258	515/412/324	515/412/324
Sound Pressure Level	dB(A)		22~34	22~34	27~38	27~38
Body	Dimension (W×H×D)	mm	653×267×585	653×267×585	653×267×585	653×267×585
	Dimension (W×H×D)	in	25.71x10.51x23.03	25.71x10.51x23.03	25.71x10.51x23.03	25.71x10.51x23.03
	Packing (W×H×D)	mm	755×375×680	755×375×680	755×375×680	755×375×680
	Net/Gross Weight	kg	17.5/23	17.5/23	17.5/23	17.5/23
Panel	Dimension (W×H×D)	mm	650×30×650	650×30×650	650×30×650	650×30×650
	Dimension (W×H×D)	in	25.59x1.18x25.59	25.59x1.18x25.59	25.59x1.18x25.59	25.59x1.18x25.59
	Packing (W×H×D)	mm	750×95×750	750×95×750	750×95×750	750×95×750
	Net/Gross Weight	kg	2.7/4.0	2.7/4.0	2.7/4.0	2.7/4.0
Refrigerant Type			R410A	R410A	R410A	R410A
Throttle Type			EXV	EXV	EXV	EXV
Design Pressure	MPa		4.5	4.5	4.5	4.5
Liquid Pipe / Gas Pipe	mm		Φ6.35/Φ9.52	Φ6.35/Φ9.52	Φ6.35/Φ12.7	Φ6.35/Φ12.7
Connecting Wire	Power Wire	mm ²	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)
	Signal Wire	mm ²	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield
Drainage Water Pipe (Inner Diameter)	mm		DN25	DN25	DN25	DN25
Control	Standard		Remote control	Remote control	Remote control	Remote control
	Optional		Wired control	Wired control	Wired control	Wired control
Operation Temp	°C / °F		16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

Four-Way Cassette (DC)			CC-TPAC007-1S	CC-TPAC009-1S	CC-TPAC012-1S	CC-TPAC016-1S
Power Supply			220-240V/1PH/50Hz/60Hz	220-240V/1PH/50Hz/60Hz	220-240V/1PH/50Hz/60Hz	220-240V/1PH/50Hz/60Hz
Capacity	Cooling	kW	2.2	2.8	3.6	4.5
	Heating	kW	2.5	3.2	4	5
Power Input		kW	0.015	0.015	0.023	0.023
Fan Motor	Model		DR-310-35Q-8-1	DR-310-35Q-8-1	DR-310-35Q-8-1	DR-310-35Q-8-1
	Type		DC	DC	DC	DC
	Capacitor	µF	/	/	/	/
	Speed (Hi/Med/Low)	r/min	570/440/350	570/440/350	640/530/440	640/530/440
Indoor Coil	Number Of Rows		2	2	2	2
	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
	Fin Spacing	mm	1.4	1.4	1.4	1.4
	Tube Pitch(A)X Row Pitch(B)	mm	21x13.37	21x13.37	21x13.37	21x13.37
	Tube Type		Inner grooved	Inner grooved	Inner grooved	Inner grooved
	Number Of Circuit		4	4	4	4
Tube Diameter	mm	Φ7	Φ7	Φ7	Φ7	
Air Flow	m ³ /h		440/327/246	440/327/246	530/432/327	530/432/327
Sound Pressure Level	dB(A)		21~32	21~32	26~36	26~36
Body	Dimension (W×H×D)	mm	653×267×585	653×267×585	653×267×585	653×267×585
	Dimension (W×H×D)	in	25.70x10.51x23.03	25.70x10.51x23.03	25.70x10.51x23.03	25.70x10.51x23.03
	Packing (W×H×D)	mm	755×375×680	755×375×680	755×375×680	755×375×680
	Net/Gross Weight	kg	17.5/23	17.5/23	17.5/23	17.5/23
Panel	Dimension (W×H×D)	mm	650×30×650	650×30×650	650×30×650	650×30×650
	Dimension (W×H×D)	in	25.59x1.18x25.59	25.59x1.18x25.59	25.59x1.18x25.59	25.59x1.18x25.59
	Packing (W×H×D)	mm	750×95×750	750×95×750	750×95×750	750×95×750
	Net/Gross Weight	kg	2.7/4.0	2.7/4.0	2.7/4.0	2.7/4.0
Refrigerant Type			R410A	R410A	R410A	R410A
Throttle Type			EXV	EXV	EXV	EXV
Design Pressure	MPa		4.5	4.5	4.5	4.5
Liquid Pipe / Gas Pipe	mm		Φ6.35/Φ9.53	Φ6.35/Φ9.53	Φ6.35/Φ12.7	Φ6.35/Φ12.7
Connecting Wire	Power Wire	mm ²	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)
	Signal Wire	mm ²	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield
Drainage Water Pipe (Inner Diameter)	mm		DN25	DN25	DN25	DN25
Control	Standard		Remote control	Remote control	Remote control	Remote control
	Optional		Wired control	Wired control	Wired control	Wired control
Operation Temp	°C / °F		16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

CC-TCAS

Compact Four-Way 360° Cassette (AC)



FEATURES:

- 9 models from 5.6 to 16 Kbtu/h
- 360° airflow allows for wide-range cooling/heating
- 5-step swing louver
- 7-speed fan control
- Built-in EXV
- Quiet operation
- High-lift drain pump with 500mm pump head

Accessories

- Grille panel: CC-SP-ISLCD AND CC-SP-IS



Compact Four-Way 360° Cassette (AC)			CC-TCAS020-1S	CC-TCAS024-1S	CC-TCAS028-1S	CC-TCAS030-1S
Power Supply			220-240V/1PH/50Hz/60Hz	220-240V/1PH/50Hz/60Hz	220-240V/1PH/50Hz/60Hz	220-240V/1PH/60Hz
Capacity	Cooling	kW	5.6	7.1	8	9
	Heating	kW	6.3	8	8.8	10
Power Input		kW	0.043	0.093	0.093	0.16
Fan Motor	Model		YDK-35Q-8P3-1	YDK-45Q-6P3-1	YDK-45Q-6P3-1	YDK-60Q-8P3
	Type		AC	AC	AC	AC
	Speed (Hi/Med/Low)	r/min	480/430/380	700/610/440	700/610/440	600/520/420
Indoor Coil	Number Of Rows		2	2	2	2
	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
	Tube Diameter And Type	mm	Ø7,Innergroove Tube	Ø7,Innergroove Tube	Ø7,Innergroove Tube	Ø7,Innergroove Tube
Air Flow		m3/h	860	1200	1200	1400
Sound Pressure Level		dB(A)	32~39	35~39	35~39	37~41
Body	Dimension (W×H×D)	mm	833×232×900	833×232×900	833×232×900	833×286×900
	Dimension (W×H×D)	in				32.8x11.26x35.43
	Packing (W×H×D)	mm	920×265×985	920×265×985	920×265×985	920×310×985
	Net/Gross Weight	kg	24/30	24/30	24/30	28.5/35
Panel	Dimension (W×H×D)	mm	950×50×950	950×50×950	950×50×950	950×50×950
	Dimension (W×H×D)	in				37.40x1.97x37.40
	Packing (W×H×D)	mm	1030×105×1030	1030×105×1030	1030×105×1030	1030×105×1030
	Net/Gross Weight	kg	5.4/8	5.4/8	5.4/8	5.4/8
Refrigerant Type			R410A	R410A	R410A	R410A
Throttle Type			EXV	EXV	EXV	EXV
Design Pressure		MPa	4.5	4.5	4.5	4.5
Liquid Pipe / Gas Pipe		mm	Ø6.35/ Ø12.7	Ø9.52/ Ø15.88	Ø9.52/ Ø15.88	Ø9.52/ Ø15.88
Connecting Wire	Power Wire	mm2	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)
	Signal Wire	mm2	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield
Drainage Water Pipe (Inner Diameter)		mm	Ø25	Ø25	Ø25	Ø25
Control	Standard		Remote control	Remote control	Remote control	Remote control
	Optional		Wired control	Wired control	Wired control	Wired control
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

Compact Four-Way 360° Cassette (AC)			CC-TCAS034-1S	CC-TCAS038-1S	CC-TCAS042-1S	CC-TCAS048-1S	CC-TCAS055-1S
Power Supply			220-240V/1PH/60Hz	220-240V/1PH/60Hz	220-240V/1PH/60Hz	220-240V/1PH/60Hz	220-240V/1PH/60Hz
Capacity	Cooling	kW	10	11.2	12.5	14	16
	Heating	kW	11	12.5	14	15	17
Power Input		kW	0.16	0.16	0.16	0.16	0.16
Fan Motor	Model		YDK-60Q-8P3	YDK-60Q-8P3	YDK-60Q-8P3	YDK-80Q-6P3	YDK-80Q-6P3
	Type		AC	AC	AC	AC	AC
	Speed (Hi/Med/Low)	r/min	600/520/420	600/520/420	600/520/420	680/580/480	680/580/480
Indoor Coil	Number Of Rows		2	2	2	2	2
	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
	Tube Diameter And Type	mm	Ø7,Innergroove Tube	Ø7,Innergroove Tube	Ø7,Innergroove Tube	Ø7,Innergroove Tube	Ø7,Innergroove Tube
Air Flow		m3/h	1400	1400	1400	1800	1800
Sound Pressure Level		dB(A)	37~41	37~41	37~41	38~46	38~46
Body	Dimension (W×H×D)	mm	833×286×900	833×286×900	833×286×900	833×286×900	833×286×900
	Dimension (W×H×D)	in	32.8x11.26x35.43	32.8x11.26x35.43	32.8x11.26x35.43	32.8x11.26x35.43	32.8x11.26x35.43
	Packing (W×H×D)	mm	920×310×985	920×310×985	920×310×985	920×310×985	920×310×985
	Net/Gross Weight	kg	28.5/35	28.5/35	28.5/35	28.5/35	28.5/35
Panel	Dimension (W×H×D)	mm	950×50×950	950×50×950	950×50×950	950×50×950	950×50×950
	Dimension (W×H×D)	in	37.40x1.97x37.40	37.40x1.97x37.40	37.40x1.97x37.40	37.40x1.97x37.40	37.40x1.97x37.40
	Packing (W×H×D)	mm	1030×105×1030	1030×105×1030	1030×105×1030	1030×105×1030	1030×105×1030
	Net/Gross Weight	kg	5.4/8	5.4/8	5.4/8	5.4/8	5.4/8
Refrigerant Type			R410A	R410A	R410A	R410A	R410A
Throttle Type			EXV	EXV	EXV	EXV	EXV
Design Pressure		MPa	4.5	4.5	4.5	4.5	4.5
Liquid Pipe / Gas Pipe		mm	Ø9.52/ Ø15.88	Ø9.52/ Ø15.88	Ø9.52/ Ø15.88	Ø9.52/ Ø15.88	Ø9.52/ Ø15.88
Connecting Wire	Power Wire	mm2	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)
	Signal Wire	mm2	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield
Drainage Water Pipe (Inner Diameter)		mm	Ø25	Ø25	Ø25	Ø25	Ø25
Control	Standard		Remote control	Remote control	Remote control	Remote control	Remote control
	Optional		Wired control	Wired control	Wired control	Wired control	Wired control
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

CC-TPAS

Compact Four-Way 360° Cassette (DC)



FEATURES:

- 7 models from 7.1 to 16 KBtu/h
- High efficiency DC fan motor
- 5-step swing louver
- 7-speed fan control
- 360° airflow allows for wide-range cooling/heating
- Built-in EXV
- Quiet operation
- High-lift drain pump with 500mm pump head

Accessories

- Grille panel: CC-SP-ISLCD and CC-SP-IS



Compact Four-Way 360° Cassette (DC)			CC-TPAS020-IS	CC-TPAS024-IS	CC-TPAS028-IS	CC-TPAS030-IS	CC-TPAS034-IS
Power Supply			220-240V/IPH/50Hz/60Hz				
Capacity	Cooling	kW	5.6	7.1	8	9	10
	Heating	kW	6.3	8	8.8	10	11
Power Input		kW	0.014-0.023	0.018-0.063	0.018-0.063	0.026-0.066	0.026-0.066
Fan Motor	Model		DR-310-60Q-8-1	DR-310-60Q-8-1	DR-310-60Q-8-1	DR-310-100Q-8	DR-310-100Q-8
	Type		DC	DC	DC	DC	DC
	Speed (Hi/Med/Low)	r/min	730/680/600/440	730/680/600/440	730/680/600/440	730/600/520/420	730/600/520/420
Indoor Coil	Number Of Rows		2	2	2	2	2
	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
	Tube Diameter And Type	mm	Ø7,Innergroove Tube	Ø7,Innergroove Tube	Ø7,Innergroove Tube	Ø7,Innergroove Tube	Ø7,Innergroove Tube
Air Flow		m3/h	710/810/910	825/1140/1310	825/1140/1310	1000/1200/1500	1000/1200/1500
Sound Pressure Level		dB(A)	31-38	34-39	34-39	37-41	35-41
Body	Dimension (W×H×D)	mm	833×232×900	833×232×900	833×232×900	833×286×900	833×286×900
	Dimension (W×H×D)	in	32.80×9.13×35.43	32.80×9.13×35.43	32.80×9.13×35.43	32.80×11.26×35.43	32.80×11.26×35.43
	Packing (W×H×D)	mm	920×265×985	920×265×985	920×265×985	920×310×985	920×310×985
	Net/Gross Weight	kg	22/28	22/28	22/28	27/33.5	27/33.5
Panel	Dimension (W×H×D)	mm	950×50×950	950×50×950	950×50×950	950×50×950	950×50×950
	Dimension (W×H×D)	in	37.40×1.97×37.40	37.40×1.97×37.40	37.40×1.97×37.40	37.40×1.97×37.40	37.40×1.97×37.40
	Packing (W×H×D)	mm	1030×105×1030	1030×105×1030	1030×105×1030	1030×105×1030	1030×105×1030
	Net/Gross Weight	kg	5.4/8	5.4/8	5.4/8	5.4/8	5.4/8
Refrigerant Type			R410A	R410A	R410A	R410A	R410A
Throttle Type			EXV	EXV	EXV	EXV	EXV
Design Pressure		MPa	4.5	4.5	4.5	4.5	4.5
Liquid Pipe / Gas Pipe		mm	Ø6.35/ Ø12.7	Ø9.52/ Ø15.88	Ø9.52/ Ø15.88	Ø9.52/ Ø15.88	Ø9.52/ Ø15.88
Connecting Wire	Power Wire	mm2	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)
	Signal Wire	mm2	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield
Drainage Water Pipe (Inner Diameter)		mm	Ø25	Ø25	Ø25	Ø25	Ø25
Control	Standard		Remote control	Remote control	Remote control	Remote control	Remote control
	Optional		Wired control	Wired control	Wired control	Wired control	Wired control
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

Compact Four-Way 360° Cassette (DC)			CC-TPAS038-IS	CC-TPAS042-IS	CC-TPAS048-IS	CC-TPAS055-IS
Power Supply			220-240V/IPH/50Hz/60Hz			
Capacity	Cooling	kW	11.2	12.5	14	16
	Heating	kW	12.5	14	15	17
Power Input		kW	0.026-0.066	0.04-0.1	0.04-0.1	0.04-0.1
Fan Motor	Model		DR-310-100Q-8	DR-310-100Q-8	DR-310-100Q-8	DR-310-100Q-8
	Type		DC	DC	DC	DC
	Speed (Hi/Med/Low)	r/min	730/600/520/420	730/600/520/420	730/600/520/420	730/600/520/420
Indoor Coil	Number Of Rows		2	2	2	2
	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
	Tube Diameter And Type	mm	Ø7,Innergroove Tube	Ø7,Innergroove Tube	Ø7,Innergroove Tube	Ø7,Innergroove Tube
Air Flow		m3/h	1000/1200/1500	1200/1400/1700	1200/1400/1700	1200/1400/1700
Sound Pressure Level		dB(A)	35-41	40-47	40-47	40-47
Body	Dimension (W×H×D)	mm	833×286×900	833×286×900	833×286×900	833×286×900
	Dimension (W×H×D)	in	32.80×11.26×35.43	32.80×11.26×35.43	32.80×11.26×35.43	32.80×11.26×35.43
	Packing (W×H×D)	mm	920×310×985	920×310×985	920×310×985	920×310×985
	Net/Gross Weight	kg	27/33.5	27/33.5	27/33.5	27/33.5
Panel	Dimension (W×H×D)	mm	950×50×950	950×50×950	950×50×950	950×50×950
	Dimension (W×H×D)	in	37.40×1.97×37.40	37.40×1.97×37.40	37.40×1.97×37.40	37.40×1.97×37.40
	Packing (W×H×D)	mm	1030×105×1030	1030×105×1030	1030×105×1030	1030×105×1030
	Net/Gross Weight	kg	5.4/8	5.4/8	5.4/8	5.4/8
Refrigerant Type			R410A	R410A	R410A	R410A
Throttle Type			EXV	EXV	EXV	EXV
Design Pressure		MPa	4.5	4.5	4.5	4.5
Liquid Pipe / Gas Pipe		mm	Ø9.52/ Ø15.88	Ø9.52/ Ø15.88	Ø9.52/ Ø15.88	Ø9.52/ Ø15.88
Connecting Wire	Power Wire	mm2	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)
	Signal Wire	mm2	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield
Drainage Water Pipe (Inner Diameter)		mm	Ø25	Ø25	Ø25	Ø25
Control	Standard		Remote control	Remote control	Remote control	Remote control
	Optional		Wired control	Wired control	Wired control	Wired control
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

CC-HPA

Wall Mounted Unit (DC)



FEATURES:

- 6 models from 2.5 to 7.1 KBtu/h
- DC motor: energy saving, low noise and more reliable
- 5-step swing louver
- 7-speed fan control
- Compact design and light weight
- Built-in EXV
- Cold catalyst filter
- Refrigerant pipe and drain pipe are on the right side
- Multi-outlet pipe method for both refrigerant pipe and drain pipe: left\right\rear, more flexible for installation
- Compatible with wireless remote control, wired control and centralized control



Wall Mounted Unit (DC)			CC-HPA007-1S	CC-HPA009-1S	CC-HPA012-1S
Power Supply			220-240V/1PH/50Hz/60Hz	220-240V/1PH/50Hz/60Hz	220-240V/1PH/50Hz/60Hz
Capacity	Cooling	kW	2.2	2.8	3.6
	Heating	kW	2.5	3.2	4.0
Power Input		W	15	15	18
Fan Motor	Model		DR-310-13-8	DR-310-13-8	DR-310-13-8
	Type		DC	DC	DC
	Speed (Tur/Hi/Med/Low)	r/min	1000/900/870/850	1000/900/870/850	1100/1000/950/900
Indoor Coil	Number Of Rows		2	2	2
	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
	Tube Diameter And Type	mm	Ø7,Innergroove tube	Ø7,Innergroove tube	Ø7,Innergroove tube
Air Flow		m3/h	440/380/360/350	440/380/360/350	500/440/415/380
Sound Pressure Level		dB(A)	24~33	24~33	27~36
Body	Dimension (W×H×D)	mm	864x300x200	864x300x200	864x300x200
	Dimension (W×H×D)	in	34.02x11.81x7.87	34.02x11.81x7.87	34.02x11.81x7.87
	Packing (W×H×D)	mm	945x375x290	945x375x290	945x375x290
	Net/Gross Weight	kg	9.5/12	9.5/12	9.5/12
Refrigerant Type			R410A	R410A	R410A
Throttle Type			EXV	EXV	EXV
Liquid Pipe / Gas Pipe		mm	Ø6.35/ Ø9.52	Ø6.35/ Ø9.52	Ø6.35/ Ø12.7
Connecting Wire	Power Wire	mm ²	1.5*2+2.5(L≤20m)	1.5*2+2.5(L≤20m)	1.5*2+2.5(L≤20m)
	Signal Wire	mm ²	2.5*2+2.5(20m<L≤50m)	2.5*2+2.5(20m<L≤50m)	2.5*2+2.5(20m<L≤50m)
Drainage Water Pipe (Outer Diameter)		mm	Ø20	Ø20	Ø20
Control	Standard		Remote control	Remote control	Remote control
	Optional		3-core wired control	3-core wired control	3-core wired control
Operation Temperature		°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

Wall Mounted Unit (DC)			CC-HPA016-1S	CC-HPA020-1S	CC-HPA024-1S
Power Supply			220-240V/1PH/50Hz/60Hz	220-240V/1PH/50Hz/60Hz	220-240V/1PH/50Hz/60Hz
Capacity	Cooling	kW	4.5	5.6	7.1
	Heating	kW	5.0	6.3	8.0
Power Input		W	20	23	35
Fan Motor	Model		DR-310-30G-8	DR-310-30G-8	DR-310-30G-8
	Type		DC	DC	DC
	Speed (Tur/Hi/Med/Low)	r/min	1050/950/900/850	1100/1000/950/900	1300/1200/1100/1000
Indoor Coil	Number Of Rows		2	2	2
	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
	Tube Diameter And Type	mm	Ø7,Innergroove tube	Ø7,Innergroove tube	Ø7,Innergroove tube
Air Flow		m3/h	655/610/565/525	720/645/580/560	890/805/720/645
Sound Pressure Level		dB(A)	29~38	32~42	35~43
Body	Dimension (W×H×D)	mm	972x320x215	972x320x215	972x320x215
	Dimension (W×H×D)	in	38.27x12.60x8.46	38.27x12.60x8.46	38.27x12.60x8.46
	Packing (W×H×D)	mm	1060x400x310	1060x400x310	1060x400x310
	Net/Gross Weight	kg	11.5/14	11.5/14	11.5/14
Refrigerant Type			R410A	R410A	R410A
Throttle Type			EXV	EXV	EXV
Liquid Pipe / Gas Pipe		mm	Ø6.35/ Ø12.7	Ø6.35/ Ø12.7	Ø9.52/ Ø15.88
Connecting Wire	Power Wire	mm ²	1.5*2+2.5(L≤20m)	1.5*2+2.5(L≤20m)	1.5*2+2.5(L≤20m)
	Signal Wire	mm ²	2.5*2+2.5(20m<L≤50m)	2.5*2+2.5(20m<L≤50m)	2.5*2+2.5(20m<L≤50m)
Drainage Water Pipe (Outer Diameter)		mm	Ø20	Ø20	Ø20
Control	Standard		Remote control	Remote control	Remote control
	Optional		3-core wired control	3-core wired control	3-core wired control
Operation Temperature		°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90



CC-FCA Floor/Ceiling (AC)

FEATURES:

- 8 models from 4.5 to 8 KBtu/h
- Flexible installation: floor standing or ceiling
- Two direction auto swing (vertical and horizontal)
- Wide-angle airflow
- Built-in EXV
- 7-speed fan control

Orbitseries™

Floor/Ceiling (AC)			CC-FCA012-1S	CC-FCA016-1S	CC-FCA020-1S	CC-FCA024-1S	CC-FCA028-1S
Power Supply			220-240V/1PH/60Hz				
Capacity	Cooling	kW	3.6	4.5	5.6	7.1	8
	Heating	kW	4	5	6.3	8	8.8
Power Input		kW	0.085	0.085	0.11	0.11	0.11
Fan Motor	Model		YSK-48-4P3	YSK-48-4P3	YSK-48-4P3	YSK-50-4P3	YSK-50-4P3
	Type		AC	AC	AC	AC	AC
	Capacitor	μF	2.5	2.5	2.5	2.5	2.5
	Speed (Rated)	r/min	740/600	740/600	940/740/600	1020/920/830	1020/920/830
Indoor Coil	Number Of Rows		3	3	3	3	3
	Fin Type		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	Tube Diameter And Type	mm	Ø7,Innergroove tube	Ø7,Innergroove tube	Ø7,Innergroove tube	Ø7,Innergroove tube	Ø7,Innergroove tube
Air Flow (Max.)		m ³ /h	620	620	800	1200	1200
Sound Pressure Level		dB(A)	37~42	37~42	37~47	45~51	45~51
Body	Dimension (W×H×D)	mm	1050*675*235	1050*675*235	1050*675*235	1300*675*235	1300*675*235
	Dimension (W×H×D)	in	41.33*26.57*9.25	41.33*26.57*9.25	41.33*26.57*9.25	51.18*26.57*9.25	51.18*26.57*9.25
	Packing (W×H×D)	mm	1130*765*330	1130*765*330	1130*765*330	1380*765*325	1380*765*325
	Net/Gross Weight	kg	26.5/31	26.5/31	26.5/31	32/37	32/37
Refrigerant Type			R410A	R410A	R410A	R410A	R410A
Throttle Type			EXV	EXV	EXV	EXV	EXV
Design Pressure		MPa	4.5/1.6	4.5/1.6	4.5/1.6	4.5/1.6	4.5/1.6
Liquid Pipe / Gas Pipe		mm	Ø6.35/ Ø12.7	Ø6.35/ Ø12.7	Ø6.35/ Ø12.7	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9
	Power Wire	mm ²	2.5*2+2.5(L≤20m)	2.5*2+2.5(L≤20m)	2.5*2+2.5(L≤20m)	2.5*2+2.5(L≤20m)	2.5*2+2.5(L≤20m)
Connecting Wire			4*2+2.5(20m<L≤50m)	4*2+2.5(20m<L≤50m)	4*2+2.5(20m<L≤50m)	4*2+2.5(20m<L≤50m)	4*2+2.5(20m<L≤50m)
	Signal Wire	mm ²	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield
Drainage Water Pipe (Outer Diameter)		mm	DN25	DN25	DN25	DN25	DN25
Control	Standard		Remote control	Remote control	Remote control	Remote control	Remote control
	Optional		Wired control	Wired control	Wired control	Wired control	Wired control
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

Floor/Ceiling (AC)			CC-FCA030-1S	CC-FCA036-1S	CC-FCA048-1S	CC-FCA060-1S
Power Supply			220-240V/1PH/60Hz			
Capacity	Cooling	kW	9	11.2	14	16
	Heating	kW	10	12.5	15	17
Power Input		kW	0.16	0.16	0.2	0.2
Fan Motor	Model		2*YSK-48-4P3	2*YSK-48-4P3	2*YSK-48-4P3	2*YSK-48-4P3
	Type		AC	AC	AC	AC
	Capacitor	μF	2.5+2.5	2.5+2.5	2.5+2.5	2.5+2.5
	Speed (Rated)	r/min	960/810	960/810	1170/960/810	1170/960/810
Indoor Coil	Number Of Rows		3	3	3	4
	Fin Type		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	Tube Diameter And Type	mm	Ø7,Innergroove tube	Ø7,Innergroove tube	Ø7,Innergroove tube	Ø7,Innergroove tube
Air Flow (Max.)		m ³ /h	1600	1600	2000	2000
Sound Pressure Level		dB(A)	45~50	45~50	45~54	45~54
Body	Dimension (W×H×D)	mm	1670*675*235	1670*675*235	1670*675*235	1670*675*235
	Dimension (W×H×D)	in	65.75*26.57*9.25	65.75*26.57*9.25	65.75*26.57*9.25	65.75*26.57*9.25
	Packing (W×H×D)	mm	1750*765*325	1750*765*325	1750*765*325	1750*765*325
	Net/Gross Weight	kg	41/47	41/47	41/47	41/47
Refrigerant Type			R410A	R410A	R410A	R410A
Throttle Type			EXV	EXV	EXV	EXV
Design Pressure		MPa	4.5/1.6	4.5/1.6	4.5/1.6	4.5/1.6
Liquid Pipe / Gas Pipe		mm	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9
	Power Wire	mm ²	2.5*2+2.5(L≤20m)	2.5*2+2.5(L≤20m)	2.5*2+2.5(L≤20m)	2.5*2+2.5(L≤20m)
Connecting Wire			4*2+2.5(20m<L≤50m)	4*2+2.5(20m<L≤50m)	4*2+2.5(20m<L≤50m)	4*2+2.5(20m<L≤50m)
	Signal Wire	mm ²	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield
Drainage Water Pipe (Outer Diameter)		mm	DN25	DN25	DN25	DN25
Control	Standard		Remote control	Remote control	Remote control	Remote control
	Optional		Wired control	Wired control	Wired control	Wired control
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90



CC-FPA Floor/Ceiling (DC)

FEATURES:

- 6 models from 7.1 to 17 KBtu/h
- DC motor: energy saving, low noise and more reliable
- Flexible installation: floor standing or ceiling
- Two direction auto swing (vertical and horizontal)
- Wide-angle airflow
- Built-in EXV
- 7-speed fan control

Orbitseries

Floor/Ceiling (DC)			CC-FPA012-1S	CC-FPA016-1S	CC-FPA020-1S	CC-FPA024-1S	CC-FPA028-1S
Power Supply			220-240V/1PH/60Hz				
Capacity	Cooling	kW	3.6	4.5	5.6	7.1	8
	Heating	kW	4	5	6.3	8	8.8
Power Input		kW	0.04	0.04	0.05	0.06	0.06
Fan Motor	Model		DR-310-75LD-8	DR-310-75LD-8	DR-310-75LD-8	DR-310-120LD-8	DR-310-120LD-8
	Type		DC	DC	DC	DC	DC
	Capacitor	μF	-	-	-	-	-
	Speed (Rated)	r/min	680/620/590	680/620/590	830/680/620	860/820/770	860/820/770
Indoor Coil	Number Of Rows		3	3	3	3	3
	Fin Type		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	Tube Diameter And Type	mm	Ø7,Innergroove tube	Ø7,Innergroove tube	Ø7,Innergroove tube	Ø7,Innergroove tube	Ø7,Innergroove tube
Air Flow (Max.)		m3/h	550	550	700	1000	1000
Sound Pressure Level		dB(A)	33~38	33~38	35~43	42~46	42~46
Body	Dimension (W×H×D)	mm	1050*675*235	1050*675*235	1050*675*235	1300*675*235	1300*675*235
	Dimension (W×H×D)	in	41.34*26.57*9.25	41.34*26.57*9.25	41.34*26.57*9.25	51.18*26.57*9.25	51.18*26.57*9.25
	Packing (W×H×D)	mm	1130*765*330	1130*765*330	1130*765*330	1380*765*325	1380*765*325
	Net/Gross Weight	kg	26.5/31	26.5/31	26.5/31	32/37	32/37
Refrigerant Type			R410A	R410A	R410A	R410A	R410A
Throttle Type			EXV	EXV	EXV	EXV	EXV
Design Pressure		MPa	4.5/1.6	4.5/1.6	4.5/1.6	4.5/1.6	4.5/1.6
Liquid Pipe / Gas Pipe		mm	Ø6.35/ Ø12.7	Ø6.35/ Ø12.7	Ø6.35/ Ø12.7	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9
Connecting Wire	Power Wire	mm2	2.5*2+2.5(L≤20m)	2.5*2+2.5(L≤20m)	2.5*2+2.5(L≤20m)	2.5*2+2.5(L≤20m)	2.5*2+2.5(L≤20m)
	Signal Wire	mm2	4*2+2.5(20m<L≤50m)	4*2+2.5(20m<L≤50m)	4*2+2.5(20m<L≤50m)	4*2+2.5(20m<L≤50m)	4*2+2.5(20m<L≤50m)
Drainage Water Pipe (Outer Diameter)		mm	DN25	DN25	DN25	DN25	DN25
Control	Standard		Remote control	Remote control	Remote control	Remote control	Remote control
	Optional		Wired control	Wired control	Wired control	Wired control	Wired control
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

Floor/Ceiling (DC)			CC-FPA030-1S	CC-FPA036-1S	CC-FPA048-1S	CC-FPA060-1S
Power Supply			220-240V/1PH/60Hz			
Capacity	Cooling	kW	9	11.2	14	16
	Heating	kW	10	12.5	15	17
Power Input		kW	0.07	0.07	0.1	0.1
Fan Motor	Model		2*DR-310-75LD-8	2*DR-310-75LD-8	2*DR-310-75LD-8	2*DR-310-75LD-8
	Type		DC	DC	DC	DC
	Capacitor	μF	-	-	-	-
	Speed (Rated)	r/min	910/850/790	910/850/790	1180/1030/850	1180/1030/850
Indoor Coil	Number Of Rows		3	3	4	4
	Fin Type		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	Tube Diameter And Type	mm	Ø7,Innergroove tube	Ø7,Innergroove tube	Ø7,Innergroove tube	Ø7,Innergroove tube
Air Flow (Max.)		m3/h	1400	1400	1900	1900
Sound Pressure Level		dB(A)	42~47	42~47	45~54	45~54
Body	Dimension (W×H×D)	mm	1670*675*235	1670*675*235	1670*675*235	1670*675*235
	Dimension (W×H×D)	in	65.75*26.57*9.25	65.75*26.57*9.25	65.75*26.57*9.25	65.75*26.57*9.25
	Packing (W×H×D)	mm	1750*765*325	1750*765*325	1750*765*325	1750*765*325
	Net/Gross Weight	kg	41/47	41/47	43.5/49.5	43.5/49.5
Refrigerant Type			R410A	R410A	R410A	R410A
Throttle Type			EXV	EXV	EXV	EXV
Design Pressure		MPa	4.5/1.6	4.5/1.6	4.5/1.6	4.5/1.6
Liquid Pipe / Gas Pipe		mm	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9
Connecting Wire	Power Wire	mm2	2.5*2+2.5(L≤20m)	2.5*2+2.5(L≤20m)	2.5*2+2.5(L≤20m)	2.5*2+2.5(L≤20m)
	Signal Wire	mm2	4*2+2.5(20m<L≤50m)	4*2+2.5(20m<L≤50m)	4*2+2.5(20m<L≤50m)	4*2+2.5(20m<L≤50m)
Drainage Water Pipe (Outer Diameter)		mm	DN25	DN25	DN25	DN25
Control	Standard		Remote control	Remote control	Remote control	Remote control
	Optional		Wired control	Wired control	Wired control	Wired control
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

CC-FTA

Floor Standing

FEATURES:

- 4 models 8 to 16 KBtu/h
- Practical installation
- Concealed in wall space
- Low amp DC motor
- 7 air flow settings
- Wireless remote receiver
- Ideal for low capacity individual rooms
- Small duct take out

Orbitseries™



Floor Standing			CC-FTA030-1S	CC-FTA036-1S
Power Supply			220-240V/1PH/50Hz/60Hz	220-240V/1PH/50Hz/60Hz
Capacity	Cooling	kW	8	10
	Heating	kW	8.8	11
Power Input		W	90	100
Max. Current		A	0.8	0.9
Fan Motor	Model		DR-310-170-8	DR-310-170-8
	Type		DC	DC
	Capacitor	μF	-	-
	Speed (Rated)	r/min	490/450/400	500/460/400
Indoor Coil	Number Of Rows		3	3
	Fin Type		Hydrophilic	Hydrophilic
	Tube Diameter And Type	mm	Φ7	Φ7
Air Flow (Max.)		m3/h	1350	1400
Sound Pressure Level		dB(A)	46/44/41	47/45/41
Body	Dimension (W×H×D)	mm	549×1853×419	549×1853×419
	Dimension (W×H×D)	in	21.61×72.95×16.50	21.61×72.95×16.50
	Packing (W×H×D)	mm	645×1960×510	645×1960×510
	Net/Gross Weight	kg	52/62	52/62
Refrigerant Type			R410A	R410A
Throttle Type			EXV	EXV
Design Pressure		MPa	4.5	4.5
Liquid Pipe / Gas Pipe		mm	9.52/15.88	9.52/15.88
Connecting Wire	Power Wire	mm2	"2.5*2+2.5(below20m) 4*2.5+2.5(below50m)"	"2.5*2+2.5(below20m) 4*2.5+2.5(below50m)"
	Signal Wire	mm2	0.75*2 (2-core shielded wire)	0.75*2 (2-core shielded wire)
Drainage Water Pipe (Outer Diameter)		mm	20	20
Control	Standard		Remote control	Remote control
	Optional		Wired control	Wired control
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90

Floor Standing			CC-FTA048-1S	CC-FTA060-1S
Power Supply			220-240V/1PH/50Hz/60Hz	220-240V/1PH/50Hz/60Hz
Capacity	Cooling	kW	14	16
	Heating	kW	15	17
Power Input		W	120	120
Max. Current		A	1	1
Fan Motor	Model		DR-310-170-8	DR-310-170-8
	Type		DC	DC
	Capacitor	μF	-	-
	Speed (Rated)	r/min	490/450/400	490/450/400
Indoor Coil	Number Of Rows		3	3
	Fin Type		Hydrophilic	Hydrophilic
	Tube Diameter And Type	mm	Φ7	Φ7
Air Flow (Max.)		m3/h	1700	1700
Sound Pressure Level		dB(A)	49/47/44	49/47/44
Body	Dimension (W×H×D)	mm	645×1920×406	645×1920×406
	Dimension (W×H×D)	in	25.39×75.59×15.98	25.39×75.59×15.98
	Packing (W×H×D)	mm	740×2080×540	740×2080×540
	Net/Gross Weight	kg	56.5/68.5	56.5/68.5
Refrigerant Type			R410A	R410A
Throttle Type			EXV	EXV
Design Pressure		MPa	4.5	4.5
Liquid Pipe / Gas Pipe		mm	9.52/15.88	9.52/15.88
Connecting Wire	Power Wire	mm2	"2.5*2+2.5(below20m) 4*2.5+2.5(below50m)"	"2.5*2+2.5(below20m) 4*2.5+2.5(below50m)"
	Signal Wire	mm2	0.75*2 (2-core shielded wire)	0.75*2 (2-core shielded wire)
Drainage Water Pipe (Outer Diameter)		mm	20	20
Control	Standard		Remote control	Remote control
	Optional		Wired control	Wired control
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90

FEATURES:

- 12 models from 2.2 to 7.1 KBtu/h
- DC motor: energy saving, low noise
- 5-step swing louver/7-speed fan control
- Compact design and light weight
- Built-in EXVCold catalyst filter
- Refrigerant pipe and drain pipe are on the right side
- Multi-outlet pipe method for both refrigerant pipe and drain pipe: left/right/rear, more flexible for installation
- Compatible with wireless remote control, wired control and centralized control

**CC-CCAL (AC)
CC-CPAL (DC)
Short Ducted**



Orbitseries™

Short Ducted (AC)			CC-CCAL007-1S	CC-CCAL009-1S	CC-CCAL012-1S	CC-CCAL016-1S	CC-CCAL020-1S	CC-CCAL024-1S
Power Supply			220-240V/1PH/60Hz					
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kW	2.5	3.2	4	5	6.3	8
Rated Input		kW	0.08	0.08	0.11	0.11	0.16	0.175
Fan Motor	Model		YSK100-20F-4P3-1	YSK100-20F-4P3-1	YSK100-27F-4P3-2	YSK100-27F-4P3-2	YSK100-55F-4P3-1	YSK100-68F-4P3-1
	Type		AC	AC	AC	AC	AC	AC
	Capacitor	µF	1.5	1.5	2	2	3	3.5
	Speed (Hi/Med/Low)	r/min	860/650/600	860/650/600	940/660/580	940/660/580	1000/800/680	1130/900/780
	Esp	Pa	30	30	30	30	30	30
Indoor Coil	Number Of Rows		2	2	2	2	2	2
	Fin Type		Hydrophilic aluminum					
	Tube Diameter/Type	mm	Ø7,Innergroove tube					
Air Flow	m3/h	450	450	550	620	800	1000	
Sound Pressure Level		dB(A)	24~29	24~29	25~32	32~37	28~38	30~39
Body	Dimension (W×H×D)	mm	814×210×467	814×210×467	814×210×467	814×210×467	1010×210×467	1214×210×467
	Dimension (W×H×D)	in	32.05×8.27×18.39	32.05×8.27×18.39	32.05×8.27×18.39	32.05×8.27×18.39	39.76×8.27×18.39	47.80×8.27×18.39
	Packing (W×H×D)	mm	910×240×510	910×240×510	910×240×510	910×240×510	1110×240×510	1310×240×510
	Net/Gross Weight	kg	16/18.5	16/18.5	16.5/19	16.5/19	21/24	25.5/28.5
Refrigerant Type			R410A	R410A	R410A	R410A	R410A	R410A
Throttle Type			EXV	EXV	EXV	EXV	EXV	EXV
Design Pressure		MPa	4.5	4.5	4.5	4.5	4.5	4.5
Liquid Pipe / Gas Pipe		mm	Ø6.35/ Ø9.53	Ø6.35/ Ø9.53	Ø6.35/ Ø12.7	Ø6.35/ Ø12.7	Ø6.35/ Ø12.7	Ø9.53/ Ø15.9
Connecting Wire	Power Wire	mm2	2.5*2+2.5(L≤20m)					
	Signal Wire	mm2	4*2+2.5(20m<L≤50m)					
Drainage Water Pipe (Inner Diameter)		mm	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25
Control	Standard		Wired control	Wired control	Wired control	Wired control	Wired control	Wired control
	Optional		Remote control	Remote control	Remote control	Remote control	Remote control	Remote control
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

Short Ducted (DC)			CC-CPAL007-1S	CC-CPAL009-1S	CC-CPAL012-1S	CC-CPAL016-1S	CC-CPAL020-1S	CC-CPAL024-1S
Power Supply			220-240V/1PH/50Hz/60Hz					
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kW	2.5	3.2	4	5	6.3	8
Rated Input		kW	0.05	0.05	0.06	0.075	0.095	0.115
Fan Motor	Model		DR-310-27F-8	DR-310-27F-8	DR-310-27F-8	DR-310-27F-8	DR-310-55F-8	DR-310-68F-8
	Type		DC	DC	DC	DC	DC	DC
	Speed (Hi/Med/Low)	r/min	850/640/550	850/640/550	850/640/550	850/640/550	1070/870/800	1150/880/820
	Esp	Pa	30	30	30	30	30	30
Indoor Coil	Number Of Rows		2	2	2	2	2	2
	Fin Type		Hydrophilic aluminum					
	Tube Diameter/Type	mm	Ø7,Innergroove tube					
Air Flow	m3/h	450	450	500	620	800	1000	
Sound Pressure Level		dB(A)	24~29	24~29	25~32	32~37	28~38	30~39
Body	Dimension (W×H×D)	mm	814×210×467	814×210×467	814×210×467	814×210×467	1010×210×467	1214×210×467
	Dimension (W×H×D)	in	32.05×8.27×18.39	32.05×8.27×18.39	32.05×8.27×18.39	32.05×8.27×18.39	39.76×8.27×18.39	47.80×8.27×18.39
	Packing (W×H×D)	mm	910×240×510	910×240×510	910×240×510	910×240×510	1110×240×510	1310×240×510
	Net/Gross Weight	kg	16/18.5	16/18.5	16.5/19	16.5/19	20/23	25/28
Refrigerant Type			R410A	R410A	R410A	R410A	R410A	R410A
Throttle Type			EXV	EXV	EXV	EXV	EXV	EXV
Design Pressure		MPa	4.5	4.5	4.5	4.5	4.5	4.5
Liquid Pipe / Gas Pipe		mm	Ø6.35/ Ø9.53	Ø6.35/ Ø9.53	Ø6.35/ Ø12.7	Ø6.35/ Ø12.7	Ø6.35/ Ø12.7	Ø9.53/ Ø15.9
Connecting Wire	Power Wire	mm2	2.5*2+2.5(L≤20m)					
	Signal Wire	mm2	4*2+2.5(20m<L≤50m)					
Drainage Water Pipe (Inner Diameter)		mm	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25
Control	Standard		Wired control	Wired control	Wired control	Wired control	Wired control	Wired control
	Optional		Remote control	Remote control	Remote control	Remote control	Remote control	Remote control
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

CC-CAM (AC) CC-PAM (DC)

Medium Ducted



FEATURES:

- 12 models from 7.1 to 15 KBtu/h
- DC motor: energy saving, low noise
- 5-step swing louver/7-speed fan control
- Compact design and light weight
- Built-in EXVCold catalyst filter
- Refrigerant pipe and drain pipe are on the right side
- Multi-outlet pipe method for both refrigerant pipe and drain pipe: left/right/rear, more flexible for installation
- Compatible with wireless remote control, wired control and centralized control

Orbitseries™

Medium Ducted (AC)			CC-CCAM024-1S	CC-CCAM028-1S	CC-CCAM030-1S	CC-CCAM034-1S	CC-CCAM040-1S	CC-CCAM050-1S		
Power Supply			220-240V/1PH/60Hz							
Capacity	Cooling	kW	7.1	8	9	10	12	15		
	Heating	kW	8	9	10	11	13	17		
Rated Input		kW	0.4	0.4	0.4	0.4	0.4	0.4		
Fan Motor	Model		YSK110-90F-4P2H105-1			YDK110-75F-4P3H105L-2		YSK120-150F-4P3H105-2		
	Type		AC	AC	AC	AC	AC	AC		
	Capacitor	μF	5	5	4+6	3+6	4+6	4+6		
	Speed (Hi/Med/Low)	r/min	1160/1000/900		1370/1330/1280 1320/1290/1200		1380/1300/1200 1360/1290/1200		1370/1330/1280 1320/1280/1200	
	Esp	Pa	50	50	50	50	50	50		
Indoor Coil	Number Of Rows		3	3	3	3	53	3		
	Fin Type		Hydrophilic Aluminum							
Tube Diameter/Type		mm	Ø7.94, Innergroove Tube							
Air Flow	m ³ /h		1220	1220	1850	2000	2000	2000		
Sound Pressure Level		dB(A)	36~41	36~41	38~43	40~44	40~44	40~44		
Body	Dimension (W×H×D)	mm	1209×260×680	1209×260×680	1445×260×680	1445×260×680	1445×260×680	1445×260×680		
	Dimension (W×H×D)	in	47.60×10.24×26.77	47.60×10.24×26.77	56.89×10.24×26.77	56.89×10.24×26.77	56.89×10.24×26.77	56.89×10.24×26.77		
	Packing (W×H×D)	mm	1255×325×720	1255×325×720	1490×325×720	1490×325×720	1490×325×720	1490×325×720		
	Net/Gross Weight	kg	33/37	33/37	46/50	46/50	46/50	46/50		
Refrigerant Type			R410A	R410A	R410A	R410A	R410A	R410A		
Throttle Type			EXV	EXV	EXV	EXV	EXV	EXV		
Design Pressure		MPa	4.5	4.5	4.5	4.5	4.5	4.5		
Liquid Pipe / Gas Pipe		mm	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9		
Connecting Wire	Power Wire	mm ²	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)		
	Signal Wire	mm ²	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield		
Drainage Water Pipe (Inner Diameter)		mm	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25		
Control	Standard		Wired control	Wired control	Wired control	Wired control	Wired control	Wired control		
	Optional		Remote control	Remote control	Remote control	Remote control	Remote control	Remote control		
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90		

Medium Ducted (DC)			CC-CPAM024-1S	CC-CPAM028-1S	CC-CPAM030-1S	CC-CPAM034-1S	CC-CPAM040-1S	CC-CPAM050-1S		
Power Supply			220-240V/1PH/50Hz/60Hz							
Capacity	Cooling	kW	7.1	8	9	10	12	15		
	Heating	kW	8	9	10	11	13	17		
Rated Input		kW	0.15	0.15	0.26	0.26	0.26	0.26		
Fan Motor	Model		DR-310-90F-8	DR-310-90F-8	DR-310-75F-8 DR-310-150F-8	DR-310-75F-8 DR-310-150F-8	DR-310-75F-8 DR-310-150F-8	DR-310-75F-8 DR-310-150F-8		
	Type		DC	DC	DC	DC	DC	DC		
	Speed (Hi/Med/Low)	r/min	1100/1000/900		1270/1200/1130 1240/1140/1040		1270/1200/1130 1240/1140/1040		1270/1200/1130 1240/1140/1040	
	Esp	Pa	70	70	70	70	70	70		
Indoor Coil	Number Of Rows		3							
	Fin Type		Hydrophilic Aluminum							
Tube Diameter/Type		mm	Ø7.94, Innergroove Tube							
Air Flow	m ³ /h		1220	1220	2000	2000	2000	2000		
Sound Pressure Level		dB(A)	36~41	36~41	40~44	40~44	40~44	40~44		
Body	Dimension (W×H×D)	mm	1209×260×680	1209×260×680	1445×260×680	1445×260×680	1445×260×680	1445×260×680		
	Dimension (W×H×D)	in	47.60×10.24×26.77	47.60×10.24×26.77	56.89×10.24×26.77	56.89×10.24×26.77	56.89×10.24×26.77	56.89×10.24×26.77		
	Packing (W×H×D)	mm	1255×325×720	1255×325×720	1490×325×720	1490×325×720	1490×325×720	1490×325×720		
	Net/Gross Weight	kg	31/36	31/36	43/48	43/48	43/48	43/48		
Refrigerant Type			R410A	R410A	R410A	R410A	R410A	R410A		
Throttle Type			EXV	EXV	EXV	EXV	EXV	EXV		
Design Pressure		MPa	4.2	4.2	4.2	4.2	4.2	4.2		
Liquid Pipe / Gas Pipe		mm	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9		
Connecting Wire	Power Wire	mm ²	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)		
	Signal Wire	mm ²	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield		
Drainage Water Pipe (Inner Diameter)		mm	Ø25	Ø25	Ø25	Ø25	Ø25	Ø25		
Control	Standard		Remote control	Remote control	Remote control	Remote control	Remote control	Remote control		
	Optional		Wired control	Wired control	Wired control	Wired control	Wired control	Wired control		
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90		

CC-CAAH (AC)

High ESP Ducted



FEATURES:

- 11 models from 7.1 to 52 KBtu/h
- External static pressure can be up to 200Pa, 250Pa (models 70 to 96 KBtu/h), 400Pa (model 192 KBtu/h)
- A double-skin drainage pan provides protection for ceilings (models 71 to 160)
- Drain pump with a 750mm pump head customized option
- 20-step static pressure control



High ESP Ducted (AC)			CC-CAAH024-IS	CC-CAAH028-IS	CC-CAAH030-IS	CC-CAAH034-IS	CC-CAAH040-IS	CC-CAAH050-IS
Power Supply			220-240V/1PH/50Hz/60Hz				220-240V/1PH/60Hz	220-240V/1PH/60Hz
Capacity	Cooling	kW	7.1	8	9	10	12	15
	Heating	kW	7.8	8.8	10	11	13	17
Rated Input		kW	0.4	0.4	0.4	0.5	0.5	0.5
Fan Motor	Model		YSK120-150F-4P2HI05-1 YDK110-75F-4P2HI05L-1	YSK120-150F-4P2HI05-1 YDK110-75F-4P2HI05L-1	YSK120-150F-4P2HI05-1 YDK110-75F-4P2HI05L-1	YSK139-300F-4P2H95	YSK139-300F-4P2H95	YSK139-300F-4P2H95
	Type		AC	AC	AC	AC	AC	AC
	Capacitor	μF	3+6	3+6	3+6	15	15	15
	Speed (Hi/Med/Low)	r/min	1380/1300/1200 1360/1290/1200	1380/1300/1200 1360/1290/1200	1380/1300/1200 1360/1290/1200	1050/900/800	1050/900/800	1050/900/800
	ESP	Pa	150	150	150	150	150	150
Indoor Coil	Number Of Rows		3	3	3	3	3	3
	Fin Type		Hydrophilic aluminum					
	Tube Diameter/Type	mm	Ø7.94, Innergroove tube					
Air Flow		m ³ /h	1500					
Sound Pressure Level		dB(A)	40~42	40~42	40~42	44~52	44~52	44~52
Body	Dimension (W×H×D)	mm	1445×260×680	1445×260×680	1445×260×680	1190×370×620	1190×370×620	1190×370×620
	Dimension (W×H×D)	in	45.08×10.24×26.77	45.08×10.24×26.77	45.08×10.24×26.77	46.85×14.57×24.41	46.85×14.57×24.41	46.85×14.57×24.41
	Packing (W×H×D)	mm	1490×325×720	1490×325×720	1490×325×720	1245×445×655	1245×445×655	1245×445×655
	Net/Gross Weight	kg	46/50	46/50	46/50	47/51	47/51	47/51
Refrigerant Type			R410A	R410A	R410A	R410A	R410A	R410A
Throttle Type			EXV	EXV	EXV	EXV	EXV	EXV
Design Pressure	MPa		4.5	4.5	4.5	4.5	4.5	4.5
Liquid Pipe / Gas Pipe	mm		Ø9.53/ Ø15.9	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9	Ø9.53/ Ø15.9
Connecting Wire	Power Wire	mm ²	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)
	Signal Wire	mm ²	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield
Drainage Water Pipe (Inner Diameter)	mm		Ø25	Ø25	Ø25	Ø25	Ø25	Ø25
Control	Standard		Wired control	Wired control	Wired control	Wired control	Wired control	Wired control
	Optional		Remote control	Remote control	Remote control	Remote control	Remote control	Remote control
Operation Temp	°C / °F		16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

High ESP Ducted (AC)			CC-CAAH070-IS	CC-CAAH085-IS	CC-CAAH096-IS	CC-CAAH120-IS	CC-CAAH180-IS
Power Supply			220-240V/1PH/60Hz	220-240V/1PH/60Hz	220-240V/1PH/60Hz	220-240V/1PH/60Hz	220-240V/1PH/60Hz
Capacity	Cooling	kW	20	25	28	35	52
	Heating	kW	22	27.5	30.8	38.5	57.2
Rated Input		kW	1.72	1.72	1.72	1.93	3.5
Fan Motor	Model		YDK-300F-4P2 *2	YDK-300F-4P2 *2	YDK-300F-4P2 *2	YE3-100L1-4	YE3-112M-4
	Type		AC	AC	AC	AC	AC
	Capacitor	μF	15+15	15+15	15+15	/	/
	Speed (Hi/Med/Low)	r/min	1030/900/800	1030/900/800	1030/900/800	1750	1755
	ESP	Pa	150	150	150	250	250
Indoor Coil	Number Of Rows		4	4	4	3	3
	Fin Type		Hydrophilic aluminum				
	Tube Diameter/Type	mm	Ø9.52, Innergroove tube	Ø9.52, Innergroove tube	Ø9.52, Innergroove tube	Ø7.94, Innergroove tube	Ø7.94, Innergroove tube
Air Flow		m ³ /h	4000	4200	4400	7500	10600
Sound Pressure Level		dB(A)	45~53	45~54	45~55	63	67
Body	Dimension (W×H×D)	mm	1465×448×811	1465×448×811	1465×448×811	2165×916×676	2165×916×676
	Dimension (W×H×D)	in	57.68×17.64×31.93	57.68×17.64×31.93	57.68×17.64×31.93	85.24×36.06×26.61	85.24×36.06×26.61
	Packing (W×H×D)	mm	1510×580×870	1510×580×870	1510×580×870	2267×1050×840	2267×1050×840
	Net/Gross Weight	kg	102/113	102/113	102/113	227/280	247/300
Refrigerant Type			R410A	R410A	R410A	R410A	R410A
Throttle Type			EXV	EXV	EXV	EXV	EXV
Design Pressure	MPa		4.5	4.5	4.5	4.5/1.6	4.5/1.6
Liquid Pipe / Gas Pipe	mm		Ø12.7/Ø22.2	Ø12.7/Ø22.2	Ø12.7/Ø22.2	Ø15.9/Ø28.6	Ø15.9/Ø28.6
Connecting Wire	Power Wire	mm ²	2.5*2+4(L≤20m) 4*2+4(20m L≤50m)	2.5*2+4(L≤20m) 4*2+4(20m L≤50m)	2.5*2+4(L≤20m) 4*2+4(20m L≤50m)	2.5*4(L≤20m) 4*4(20m L≤50m)	2.5*4(L≤20m) 4*4(20m L≤50m)
	Signal Wire	mm ²	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield
Drainage Water Pipe (Inner Diameter)	mm		Ø30	Ø30	Ø30	Ø26	Ø26
Control	Standard		Wired control	Wired control	Wired control	Wired control	Wired control
	Optional		Remote control	Remote control	Remote control	Remote control	Remote control
Operation Temp	°C / °F		16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

CC-CPAH (DC)

High ESP Ducted



FEATURES:

- 3 models from 20 to 28 Kbtu/h
- DC motors: energy saving, low noise and more reliable
- External static pressure can be up to 200Pa, 250Pa (models 70 to 96 Kbtu/h), 400Pa (model 192 Kbtu/h)
- A double-skin drainage pan provides double protection for ceilings (models 71 to 160)
- Drain pump with a 750mm pump head customized option
- 20-step static pressure control

High ESP Ducted (DC)			CC-CPAH070-1S	CC-CPAH085-1S	CC-CPAH096-1S
Power Supply			220-240V/1PH/50Hz/60Hz		
Capacity	Cooling	kW	20	25	28
	Heating	kW	22	27.5	30.8
Rated Input		kW	1.2	1.2	1.3
Fan Motor	Model		DRN-310-600-8*2	DRN-310-600-8*2	DRN-310-600-8*2
	Type		DC	DC	DC
	Capacitor	μF	/	/	/
	Speed (H-M-L)	r/min	1160	1160	1160
	ESP	Pa	150	150	150
Indoor Coil	Number Of Rows		4	4	4
	Fin Type		Hydrophilic aluminum		
	Tube Diam./Type	mm	Ø9.52, Innergroove tube		
Air Flow		m ³ /h	3750/3250/2900	3750/3250/2900	4100/3250/2900
Sound Pressure Level		dB(A)	45-50	46-51	48-52
Body (W×H×D)	Dimension	mm	1440*811*448	1440*811*448	1440*811*448
	Dimension	in	56.69*31.93*17.64	56.69*31.93*17.64	56.69*31.93*17.64
	Packing	mm	1515*885*580	1515*885*580	1515*885*580
	Net/Gross Weight	kg	102/113	102/113	102/113
Refrigerant Type			R410A	R410A	R410A
Throttle Type			EXV	EXV	EXV
Design Pressure		MPa	4.5	4.5	4.5
Liquid Pipe / Gas Pipe		mm	Ø12.7/Ø22.2	Ø12.7/Ø22.2	Ø12.7/Ø22.2
Connecting Wire	Power Wire	mm ²	2.52×3(L≤20m) 42×3(20m<L≤50m)	2.52×3(L≤20m) 42×3(20m<L≤50m)	2.52×3(L≤20m) 42×3(20m<L≤50m)
	Signal Wire	mm ²	0.75*3 shield cable	0.75*3 shield cable	0.75*3 shield cable
Drainage Water Pipe (Inner Diam.)		mm	Ø30	Ø30	Ø30
Control	Standard		3-pin wired control		
	Optional		Remote control	Remote control	Remote control
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

CCCFA

Full Fresh Air Processor



FEATURES:

- 100% Fresh air Processing unit
- Both fresh air filtration and heating/cooling can be achieved in a single system.
- DC motors: Energy saving, low noise and more reliable.
- External static pressure up to 400Pa.
- 20-step static pressure control
- 750mm Pump available as a customization option.



Fresh Air Processor			CCCFA-AOA048-1S	CCCFA-AOA076-1S	CCCFA-AOA096-1S	CCCFA-AOA156-1S	CCCFA-AOA192-1S
Power Supply			220-240V/1PH/50Hz	220-240V/1PH/50Hz	220-240V/1PH/50Hz	380-415V/3PH/50Hz	380-415V/3PH/50Hz
Capacity	Cooling	kW	14	22.4	28	45	56
	Heating	kW	9	16	20	31.4	39
Power Input		kW	0.45	1.2	1.2	1.6	2.5
Fan Motor	Model		YSK139-300F-4P3H95	YDK-300F-4P3 *2	YDK-300F-4P3 *2	YX3-100L1-4-B3	YX3-100L1-4
	Type		AC	AC	AC	AC	AC
	Capacitor	μF	15	15 *2	15 *2	/	/
	Speed	r/min	1050/830/720	1050/920/820	1050/920/820	1440	1440
	ESP	Pa	220	220	220	300	300
Indoor Coil	Number Of Rows		3	4	4	3	3
	Fin Type		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	Tube Diameter And Type	mm	Ø7.94, Innergroove	Ø9.52, Innergroove	Ø9.52, Innergroove	Ø7.94, Innergroove	Ø7.94, Innergroove
Air Flow		m ³ /h	1400	2000	2800	2000	6000
Sound Pressure Level		dB(A)	42-48	45-52	45-52	58	62
Body	Dimension (W×H×D)	mm/inches	1190×370×620 46.8x14.57x24.51	1465×448×811 57.68x17.64x31.93	1465×448×811 57.68x17.64x31.93	2165×676×916 57 85.24x26.61x36.1	2165×676×916 85.24x26.61x36.1
	Packing (W×H×D)	mm	1245×445×655	1510×490×870	1510×490×870	2200×710×1018	2200×710×1018
	Net/Gross Weight	kg	47/51	102/106	102/106	222/260	222/260
	Refrigerant Type		R410A	R410A	R410A	R410A	R410A
Throttle Type			EXV	EXV	EXV	EXV	EXV
Design Pressure		MPa	4.5	4.5	4.5	4.5	4.5
Liquid Pipe / Gas Pipe		mm	Ø9.53/ Ø15.9	Ø12.7/ Ø22.2	Ø12.7/ Ø22.2	Ø15.9/ Ø28.6	Ø15.9/ Ø28.6
Connecting Wire	Power Wire	mm ²	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+4(L≤20m) 4*2+4(20m<L≤50m)	2.5*2+4(L≤20m) 4*2+4(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m<L≤50m)
	Signal Wire	mm ²	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield	0.75*2 shield
Drainage Water Pipe (Outer Diameter)		mm	Ø25	Ø30	Ø30	Ø32	Ø32
Control	Standard		Wired control	Wired control	Wired control	Wired control	Wired control
	Optional		Remote control	Remote control	Remote control	Remote control	Remote control
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

AHUAC

Ducted AHU Multi-Position

FEATURES:

- DC motor: energy saving, low noise and more reliable
- 6 models from 18000~54000Btu/h
- Flexible installation: can be installed on vertical or horizontal
- Four options of air outlet: up and down, or left and right
- Built-in EXV
- Compatible with wireless remote

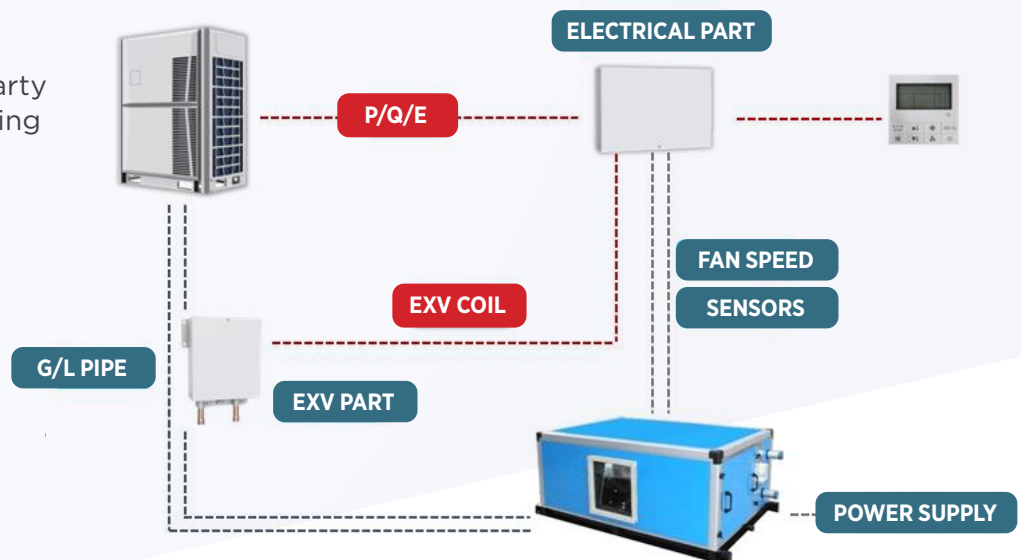
Orbitseries™



Ducted AHU Multi-Position			AHUAC-24-1S	AHUAC-36-1S	AHUAC-60-1S
Power Supply			220-240V/1PH/50Hz/60Hz	220-240V/1PH/50Hz/60Hz	220-240V/1PH/50Hz/60Hz
Capacity	Cooling	kW	7.1	10.5	16
	Heating	kW	8	11.5	18
Rated Input			290	290	517
Fan Motor	Model		YDK130-6G03	YDK130-6G03	YDK-350F-6P3
	Type		AC	AC	AC
	Capacitor	μF	-	-	-
	Speed (Hi/Med/Low)	r/min	910/780	910/780	930/880
Indoor Coil	Number Of Rows		2	2	2
	Fin Type		Hydrophilic Aluminum	Hydrophilic Aluminum	Hydrophilic Aluminum
Tube Diameter/Type		mm	Ø7, Innergroove tube	Ø7, Innergroove tube	Ø7, Innergroove tube
Air Flow		m3/h	1500	1500	2500
External static pressure		Pa	25	37	50
Sound Pressure Level		dB(A)	25	37	50
Body	Dimension (W×H×D)	mm	774x520x460	774x520x460	970x550x500
	Dimension (W×H×D)	in	30.47x20.47x18.11	30.47x20.47x18.11	38.18x21.65x19.69
	Packing (W×H×D)	mm	834x520x565	834x520x565	1030x560x595
	Net/Gross Weight	kg	36/39	36/39	48/52
Refrigerant Type			R410A	R410A	R410A
Throttle Type			EXV	EXV	EXV
Design Pressure		MPa	4.5	4.5	4.5
Liquid Pipe / Gas Pipe		mm	Ø9.52/ Ø15.88	Ø9.52/ Ø15.88	Ø9.52/ Ø15.88
Connecting Wire	Power Wire	mm2	2.5*2+2.5(L≤20m) 4*2+2.5(20m L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m L≤50m)	2.5*2+2.5(L≤20m) 4*2+2.5(20m L≤50m)
	Signal Wire	mm2	0.75*2 shield	0.75*2 shield	0.75*2 shield
Drainage Water Pipe (Inner Diameter)		mm	Ø20	Ø20	Ø20
Control Standard			Wired controller	Wired controller	Wired controller
Operation Temp		°C / °F	16~32 / 61~90	16~32 / 61~90	16~32 / 61~90

AHU KIT

- Orbit AHU connection kit is an interface to allow 3rd party manufacturer's AHU connecting to Orbit VRF outdoor units.
- 0-10V function.
- Remote ON/OFF function.



The Orbitseries logo is positioned in the top left corner of the page. It features the word "Orbitseries" in a white, sans-serif font, with a trademark symbol (TM) to its upper right. The background behind the logo is a dark blue gradient with a pattern of diagonal lines and small, glowing blue circles.

Orbitseries™

The background of the page is a photograph of a modern office interior. The office is brightly lit with recessed ceiling lights. It features rows of desks with computers, ergonomic chairs, and small potted plants. The ceiling has a grid pattern with recessed lighting. The overall atmosphere is professional and contemporary.

CONTROLS & SOFTWARE

Orbitseries™

ORBIT VRF offers a wide variety of innovating, user friendly control options and monitoring options.

This allows the user to easily manage the different functions of the indoor and outdoor units locally, or remotely, in groups, or individually.



Orbitseries™

WIRELESS REMOTE CONTROLS

WIRELESS CONTROLS CCRC-02-1S & CCRC-P05-1S

- Indoor unit address inquiry
- Indoor unit address setting
- Temperature setting
- Operation mode setting
- Fan speed setting
- Timer function

WIRED CONTROL

- Bidirectional communication
- Indoor unit's operating parameters (error code, temperature, address) can be inquired and displayed on the control.
- Compact design
- Timer function
- Electrical standard dimensions



CCWC-05-1S

TOUCH SCREEN WIRED CONTROL

- Curved screen design
- Compact design
- Easy to operate with sensible screen
- 3 cores communication cable
- IFEEL function
- WiFi control



CCWC-09-WIFIT



CCWC-18Z-C100

SIMPLE CENTRALIZED CONTROL

- Easy to install. Control connects to outdoor units only.
- 1 control can control max. 100 indoor units.
- Operation mode restriction
- Error & protection code display
- Control single unit or all units together
- Modbus control



TOUCH SCREEN CENTRALIZED CONTROL

- Wireless WiFi connection
- Touch screen, easy to use
- Single unit control or group control, 4 groups can be created.
- Weekly schedule management
- Lock Mode, temperature lock
- Modbus control



CCWC-18-C64WIFIT



Orbitseries™

SOFTWARE APPLICATIONS

SMART BOX (CENTRALIZED CONTROL APP)

- Available on iOS and Android
- Single unit control or group control
- Weekly schedule management
- Outdoor and indoor units operation parameters enquiry

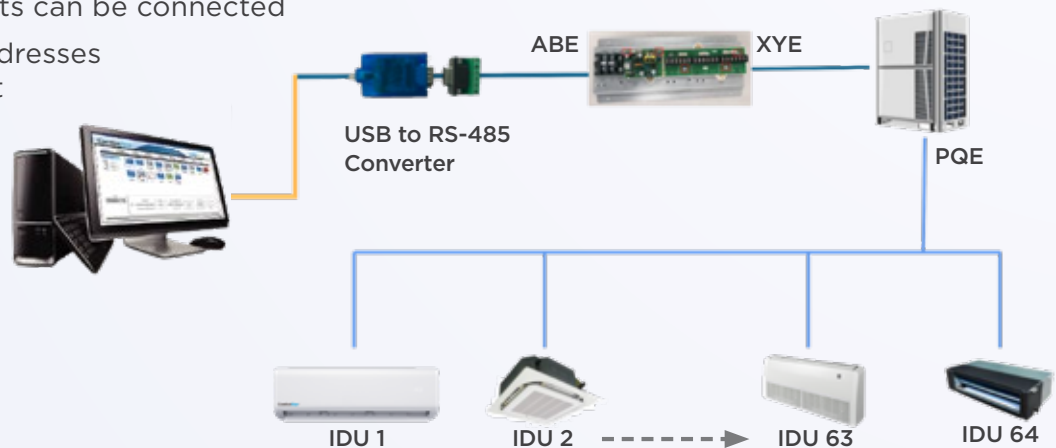


CCP-D181-01P



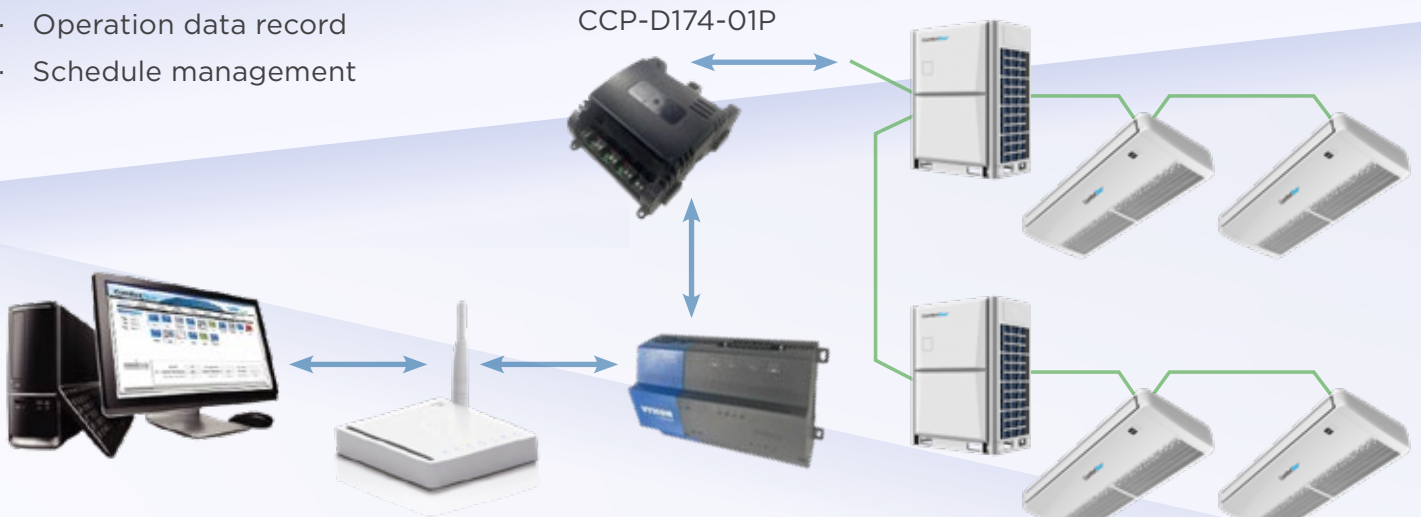
MODBUS FUNCTION (OPTIONAL)

- Adding MODBUS board to connect to BMS system
- Max. 64 indoor units can be connected
- All indoor units addresses should be different



ORBIT-NET (CENTRALIZED NETWORK CONTROL SYSTEM)

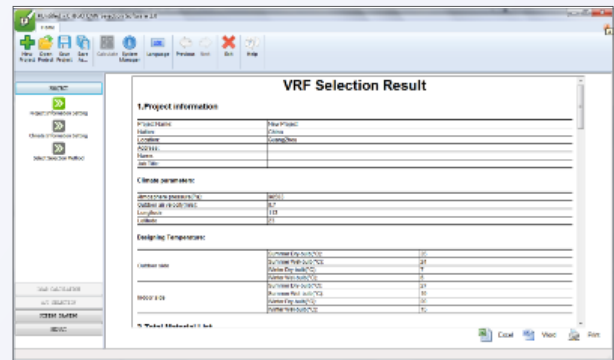
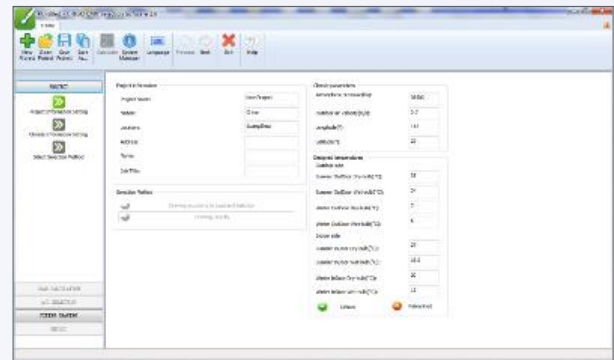
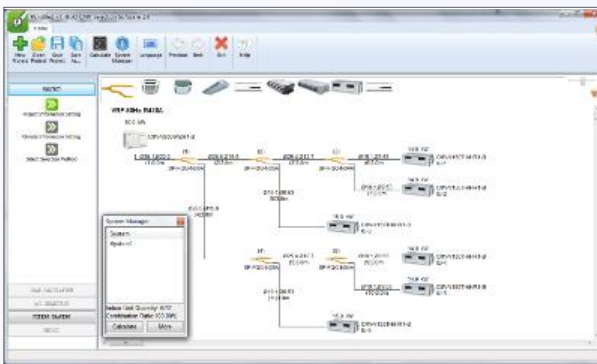
- Centralized control
- Electricity charge management
- Operation data record
- Schedule management



Note: The control can be connected to computer directly without router.

VRF SELECTION SOFTWARE

- Calculate connection pipe diameter and branch easily.
- Convenient for VRF system design.
- Output Word/ Excel/CAD report.





ComfortStar®

Air Conditioning & Heating Products

Orbitseries™

APPLIED COMMERCIAL AIR CONDITIONING

12201 N.W. 107th Avenue, Medley, FL 33178
1-305-500-9898 | Toll free: 1-866-524-9898
Fax: 305-500-9896
e-mail: info@comfortstarusa.com

www.comfortstarusa.com



All rights reserved printed in the United States of America. This publication is protected by copyright, and permission must be obtained by eAir, LLC prior to any reproduction or transmission in any form or by any means. Trademarks: ComfortStar logo is a registered brand of eAir, LLC

PART #ORBIT-082023