

# Airwell

■ *Just feel well*






## 2015




### Air conditioning



**Airwell**  
Residential

# Table of contents

	PAGE
<b>HISTORY</b>	6
<b>REGULATION AND STANDARDS</b>	8
<b>OUR UNIQUE SOLUTIONS</b>	12
<b>AIRWELL RESIDENTIAL SERVICE</b>	18
<b>ICONS GUIDE</b>	20
<b>HIGH WALL RANGE</b>	22
<b>HOD</b> <span style="background-color: #f4a460; padding: 2px;">NEW</span> High wall monosplit	24
<b>HND</b> <span style="background-color: #f4a460; padding: 2px;">UPGRADE</span> High wall mono & multisplit 	26
<b>HKD</b> <span style="background-color: #f4a460; padding: 2px;">UPGRADE</span> High wall mono & multisplit 	28
<b>DUCTED RANGE</b>	30
<b>DLF</b> Ducted low static pressure mono & premium multisplit	32
<b>DLSE</b> Ducted medium static pressure mono & premium multisplit	36
<b>HRV</b> Heat recovery unit double flow exchanger	42
<b>DCD</b> Ducted medium static pressure mono & multisplit 	44
<b>DBF</b> On/off ducted medium static pressure	48
<b>DAF</b> On/off ducted high static pressure	50
<b>DK DN</b> On/off ducted high static pressure	52
<b>CASSETTE RANGE</b>	54
<b>CBD</b> Cassette mono & multisplit 	56
<b>CAD</b> Cassette 950x1340 monosplit	60
<b>CBF</b> On/off cassette 900x900	62
<b>FLOOR CEILING RANGE</b>	64
<b>XAD</b> Console mono & multisplit 	66
<b>FBD</b> Floor ceiling monosplit	68
<b>FWDB</b> <span style="background-color: #f4a460; padding: 2px;">NEW</span> Floor ceiling monosplit low temperature for wine cellar	70
<b>FCF</b> On/off floor ceiling	72

	PAGE
<b>MULTISPLIT RANGE</b>	74
<b>YCZ</b> Residential line 	76
<b>YBZE</b> Residential line	82
<b>TWIN</b> Twin system	86
<b>MONOBLOC &amp; FLOOR STANDING RANGES</b>	88
<b>MAF</b> Portable	90
<b>WFD</b>  Window 	91
<b>SBF</b> On/off floor standing	92
<b>WATER RANGE</b>	94
<b>CAO</b> Water console	98
<b>GCAO</b> Water source	100
<b>LIGHT COMMERCIAL RANGE</b>	102
<b>X AC</b> Vertical air cabinet	104
<b>X WC</b> Vertical water cabinet	106
<b>HAN</b> Rooftop unit	108
<b>VRF RANGE</b>	110
<b>Outdoor units</b>	110
<b>AHU Connection kit</b>	118
<b>Mini FlowLogic</b> 5 HP - 6 HP - 10 HP	122
<b>FlowLogic</b> 10 HP - 12 HP - 14 HP - 16 HP	126
<b>Indoor units</b>	112
<b>HAV</b> High wall	142
<b>CBV</b> Cassette 600x600	143
<b>CCV</b> Cassette 900x900	144
<b>FAV</b> Floor ceiling	145
<b>DAV</b> Ducted low static pressure	146
<b>DBV</b> Ducted medium static pressure	147
<b>DCV</b> Ducted high static pressure	148
<b>EAV</b> Console	149
<b>TOOLS BOX</b>	154

# Our unique solutions

=

5

**unique technologies**

+

4

**unique applications**

# Unique technologies

## WiFi

Air conditioners controlled by mobile phone, tablet or computer with wireless router and internet.

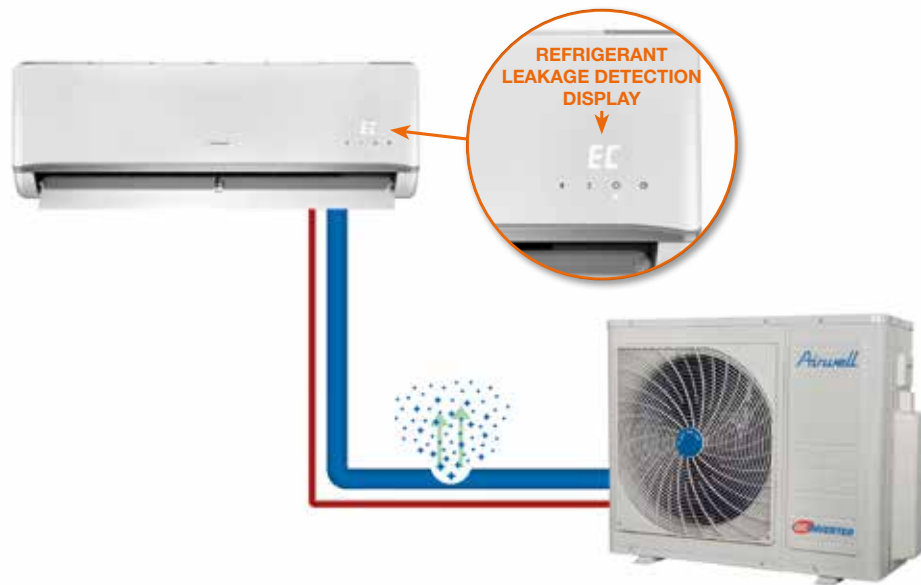
- Easy installation.
- Control your A/C by mobile phone/tablet locally or from distance.
- Can control: on-off, operation mode, fan speed, temperature set-up and timer.
- Esthetic hidden display.
- Android and IOS compatibility.
- HKD/HND lines: optional.

### CONTROL ALL HOME'S AIR CONDITIONNERS



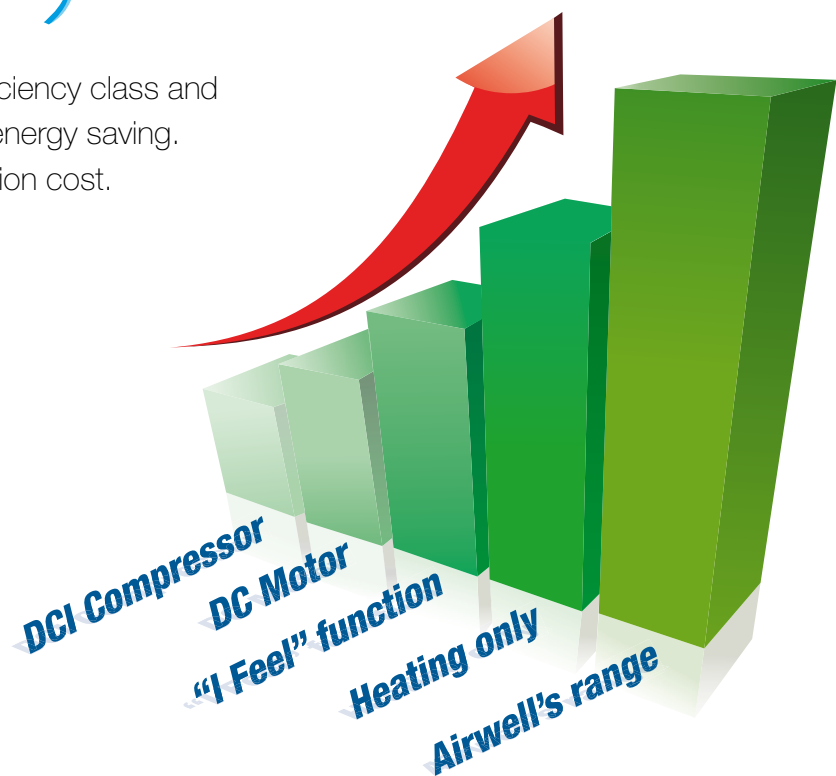
## Refrigerant leakage detection

- The electronic controller checks continuously the system parameters and identifies the component presenting refrigerant leakage. In a case of leakage, the system stops, protects the compressor from damage and avoids major service costs.



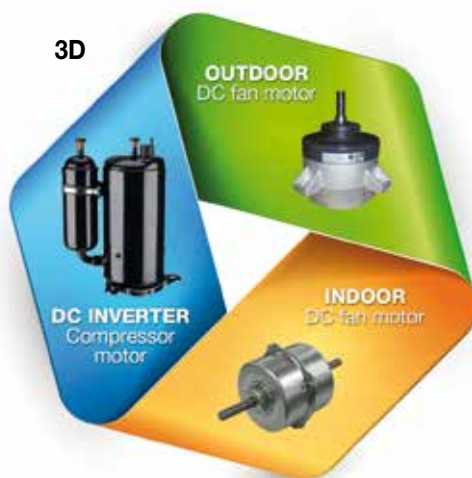
## A+++ Class

- Highest efficiency class and significant energy saving.
- Low operation cost.

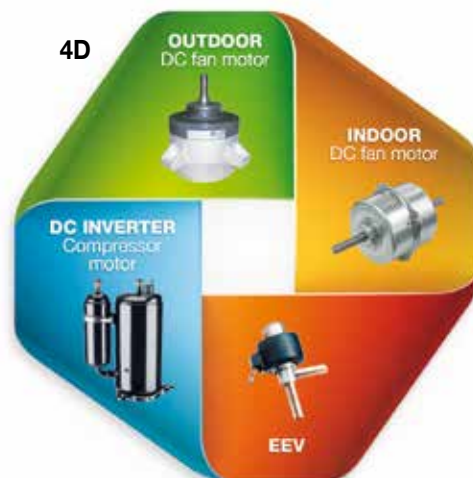


## DCI 3D-4D

- System design based on DC motors.
- DC motor contributes directly to the system efficiency.
- 4D design based on DC indoor motor, DC outdoor fan motor, DC inverter compressor and Electronic expansion valve.
- In 4D the system can work with optimized parameters in order to achieve maximum performance and comfort.



**Compatible model:**  
HKD (except size 9)



**Compatible models:**  
HOD / HND (except size 24) / XAD / CBD / FBD / DCD

## Super quiet

- Special design for low noise level.
- Optimize solution suitable for bedrooms.



# Unique applications

## HOD

### HIGHLIGHTS

[ MORE DETAILS  
P. 24 ]

- Design for extreme cold climate
- Based on 4D technology
- A+++ class in size 9
- Wide operating temperature between  $-30^{\circ}\text{C}$  in heating up to  $54^{\circ}\text{C}$  in cooling

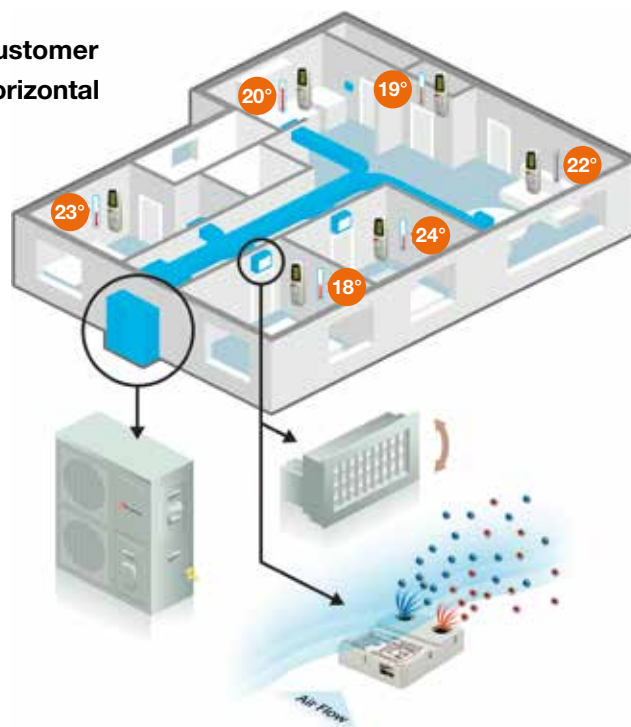


## DLSE Plus VAV

### HIGHLIGHTS

[ MORE DETAILS  
P. 36 ]

- Advanced fuzzy logic by controlling the inverter and room temperature per zone
- Cost & energy saving
- The best added value for customer
- DC motor combined with horizontal fan creating high efficiency





# DLF

## HIGHLIGHTS

- Vertical and horizontal installation
- Compact: 200 mm height, space saving
- Super quiet



[ MORE DETAILS  
P. 32 ]



# CAO and GCAO

## HIGHLIGHTS

- Ideal solution for building with aesthetic and local restrictions
- Easy & simple installation



[ MORE DETAILS  
P. 94 ]

# Airwell Residential Service

Our Airwell Residential company has issued this Service Charter to demonstrate our commitment to providing our customers-focused service. This service charter is relevant to any customer of Airwell Residential. The Service Charter sets out all Airwell Residential staff in all levels.

## [ SERVICE DIVISION ]

### [ CALL CENTER ]

- Immediate answer by expert's representative
- High availability
- Multi language
- Professional and trained representatives
- Service oriented and focus
- Service until fully satisfaction

### [ SPARE PART CENTER ]

- High level of components availability
- Advanced delivery system
- Manage spare parts in advance for any new product

### [ LOCAL AND REMOTE TECHNICAL SUPPORT (WORLD WIDE) ]

- High level and experienced technician
- Direct contact over the phone and in site as need for VIP customers

### [ TRAINING CENTER ]

- Training material
- Periodical seminar
- New products launching
- Training centers in France and worldwide



Airwell Residential, in partnership with its customers, opens Airwell Academy centers. Indeed, the company has set up centers of presentation and training in France and world-wide.

Trainings are proposed in order to offer you the opportunity to discover the product range and its unique solutions.

New centers open throughout the year.



## [ SERVICE STANDARDS ]

Airwell Residential aims to provide a professional, courteous, efficient and helpful service to all customers all the time.

Specifically, we will make every effort to ensure the following standards are met:

- Our goal is to respond to all letters, e-mails and faxes within 2 working days upon receipt and give a likely timescale within this period for any requests for information.
- We will ensure that all telephone calls are handled courteously.
- That any messages are passed onto the relevant staff member.
- Answered as soon as possible.

We will deal with any query you have as quickly as we can.

## [ AFTER SALES SERVICE ]

**Unique and exclusive:**  
After Sales Organization  
dedicated also to **final customer.**

minimal waiting and  
order processing time

advanced, tailored diagnosis based  
on required level of technicality



### PRIVATE PERSONS

- Request for documentation
- Error message information
- Assistance in configuring indoor unit and remote control
- Contact with ATS (Approved Technical Station) Airwell Residential



### PROFESSIONALS

- Technical assistance
- Troubleshooting
- Quick setup guide



## Our Aftersales Service

Export

Tél. ■ +33 (0)1 76 21 82 95

Fax ■ +33 (0)1 76 21 82 96

**SPARE PARTS ORDERS:**  
e-mail ■ [sp@airwell-res.com](mailto:sp@airwell-res.com)

**TECHNICAL SUPPORT:**  
e-mail ■ [technical-sp@airwell-res.com](mailto:technical-sp@airwell-res.com)



## TECHNOLOGY



### FLEXY MATCH

- Outdoor unit can match several type of indoor units.
- Indoor unit can match single split or multisplit outdoor units.



### A/A CLASS EFFICIENCY

High efficiency and energy saving product.



### DC INVERTER

Compressor with high efficiency DC motor.



### 1 W STANDBY POWER

Minimize the waste of energy once unit is in a standby mode.



### LOW VOLTAGE STARTUP

Design to start up the system even once power supply is not stabilized.



### LOW TEMPERATURE STARTUP

Start up the system even once outside temperature is very low as -15°C.



### R410A FLUID

Refrigerant fluid R410A.



### R32 FLUID

Refrigerant fluid R32.



### VAV COMPATIBILITY

Automatic air volume and system control per zone related to the gap between actual room temperature and set up temperature.



### ELECTRONIC EXPANSION VALVE

Precise refrigerant flow control, optimize the performance and protect the compressor.



### REFRIGERANT LEAKAGE DETECT

Indicate in indoor side once leakage is detected and stop the system to protect the compressor.

## AIR QUALITY/CLEAN



### STERIONIZER

Generating sterionizer ions that leads to electrochemical reaction that deactivates bacteria, viruses and allergenic particles. Creating and brings a natural air quality to the living environment.



### ACTIVE CARBON FILTER

Effectively cleans the air from air-born particles down to 0.01µ avoid cigarettes smoke, house cooking smoke, pollen, mold, spores and bacteria.



### NANO PHOTOCATALYTIC FILTER

Oxidize and degrade organic contaminants. It can effectively eliminate 99.9% of bacteria and collect dust effectively.



### ELECTROSTATIC FILTER - ANTIBACTERIA

Anti Bacteria Remove in high efficient small particles from the air and purify the air from bacteria.



### AUTO CLEAN/DRY

Avoid bacteria and mildew growing by keeping the heat exchanger dry after cooling operation.



### FRESH AIR

Refresh the room by supplying fresh air from outside.



### FILTER CLEAN INDICATION

Sign to check and clean the air filter.

## COMFORT FUNCTIONS



### I FEEL

Precise temperature control around dedicated area by using remote control temperature sensor.



### WIDE ANGLE LOUVER

Better cooling and heating affect by extending the air distribution in the room in a wide angle.



### MOTORIZED 4D AIRFLOW

Excellent cooling and heating affect by swing the air up and down, left and right automatically.



### MULTIFLOW 360°

Most comfort air distribution system by supply air in four direction in 360° and motorized louver control.



### SLEEP MODE

Adjusting the room temperature along the night follow human sleep behaviour.



### SUPER QUIET

Advanced design for low sound level.



### HOT KEEP

Control the fan operation to avoid drafting of cold air during start operating in heating.

## FUNCTION



### DIGITAL DISPLAY

Digital display on the indoor unit, indicating the temperature set up or failure code.



### TURBO MODE

Boosting the output capacity and create a rapid reaction to reach the room temperature set up.



### PROGRAMMABLE TIMER

Option to set up a program to control the unit stop and operation based on a real time.



### SELF DIAGNOSTIC

Indicate the unit failure by control the light blinking on the unit display.



### LOW BATTERY INDICATION

Indication to replace the remote control battery.



### AUTO RESTART (MEMORY)

Automatic restart the unit in the last operation mode once resume power supply.



### REMOTE CONTROL LOCK

Lock the remote control function to avoid non required operation.



### ADVANCED DEFROST

Minimize the operation without supplying energy during defrost in heating.



### 8°C CONSTANT TEMPERATURE HEATING

Keep 8°C room temperature to protect automatically the house sanitary system from freezing and damage in very cold weather.



### AUXILIARY HEATER

Boosting the heating capacity once system working in extremely low ambient temperature.



### MULTI FAN SPEED

Wide range of motor speed to optimize the sound level or the capacity output.



### INTEGRATED WATER PUMP

Remove the condensate water up for easy and flexible installation.



### LEFT/RIGHT DRAIN CONNEXION

Easy installation by option to connect the drain tube in left or right side.



### FREQUENCY CONTROL INCLUDING AIRFLOW

Adjust the motor speed according to the external static pressure to reach the air volume.



### TWIN APPLICATION

One outdoor unit is connected with two same rating indoor units.



### OUTDOOR BASE HEATER

Avoid the ice rising.



### CRANKCASE HEATER

Prevent oil compressor from freezing.

## CONTROL OPTION CONNECTIVITY



### ALARM OUTPUT

Option to transmit to remote location a severe failure or alarm indication.



### UNIT ON INPUT

Option to transmit indication to remote location if unit is in ON or in OFF operation.



### DRY CONTACT ON/OFF

Option to connect to external presence detector to control the unit operation and save energy once room is not equipped.



### BMS COMPATIBLE

Option to connect to BMS system via PCB adapter.



### SERVICE MONITOR TOOL

PC interface to monitor and adjust the system parameters.

## OUTDOOR UNIT OPTION



### POWER CONSUMPTION CONTROL

Option to control the power consumption by limiting the maximum unit capacity output.



### WIRED REMOTE CONTROL DIAGNOSTIC

Run diagnostic mode by using indoor unit remote control.



### OUTDOOR UNIT DIGITAL DIAGNOSTIC

Displaying a digital failure code for easy servicing.



### OUTDOOR UNIT NIGHT MODE DRY CONTACT

Limiting the outdoor fan motor speed and reducing the outdoor unit noise level.



### OUTDOOR UNIT STAND-BY

Switch dry contact Option to control the unit ON and OFF from remote device.



### OUTDOOR UNIT ALARM OUTPUT

Option to transmit alarm of severe failure output to remote device.



### FULL LENGTH REFRIGERANT PRECHARGE

No additional charge is needed, easy installation and cost saving.



### TECHNICIAN TEST MODE

Special mode for technician to improve the service duration and professional level.



### LOW AMBIENT COOLING

Operation in cooling even in low outside temperature due to advanced control logic.



### LOW AMBIENT HEATING

Operating in heating in extremely low outside temperature by using a special unit design.

[ MODEL NAME ]

Page

HIGH WALL  
MONOSPLIT & MULTISPLIT

**NEW**

HOD



24

HIGH WALL  
MONOSPLIT & MULTISPLIT

**UPGRADE**



HND



26

HIGH WALL  
MONOSPLIT & MULTISPLIT

**UPGRADE**



HKD



28

**High wall Range**

9  
2.5 kW

12  
3.5 kW

18  
5 kW

24  
7 kW





# HOD

## HIGH WALL MONO & MULTISPLIT



- Premium high wall line available in capacities from 2.5 up to 6.85 kW.
- Cooling & heating operation mode.
- Special design for extreme cold and hot climates.
- "I Feel" function with precise room temperature control.

### PRODUCT ADVANTAGES

- Operating up to **-30°C** in heating mode (only sizes 12/18/24).
- Operating from **-15°C** to **+54°C** in cooling mode (only sizes 12/18/24).
- 4D technology.
- 8 °C freeze protection in winter.
- High efficiency.



RC08A



RCW10 (optional)



### ACCESSORIES/OPTIONS

Acc.	Ref.	Photo	Description	Function
RCW10	7ACEL1718		Wired single control	Setting of ON/OFF, operating mode, temperature , fan speed, timer, swing, sleep, turbo, key lock, error display on LCD screen.

### FEATURES



## HOD TECHNICAL DATA

Indoor units		AWSI-HOD009-N11	AWSI-HOD012-N11	AWSI-HOD018-N11	AWSI-HOD024-N11
Outdoor units		AWAU-YOD009-H11	AWAU-YOD012-H11	AWAU-YOD018-H11	AWAU-YOD024-H11
<b>COOLING</b>					
Rated capacity	kW	2.5 (0.6-3.2)	3.4 (1.15-4.0)	5.1 (1.0-6.3)	6.85 (2.0-8.6)
Pdesignc	kW	2.5	3.4	5.1	6.85
Rated power input	kW	0.577	0.865	1.453	1.89
SEER/Energy label		8.5/A+++	7.8/A++	6.5/A++	6.2/A++
Operating limits	°C	-15°/48° Dry bulb		-15°/54° Dry bulb	
<b>HEATING</b>					
Rated capacity	kW	2.9 (0.6-4.0)	3.55 (2.0-5.3)	5.3 (1.0-6.8)	6.85 (1.9-9.0)
Pdesignh (average Climate)	kW	2.8	3.5	5.3	6.85
Pdesignh (warmer Climate)	kW	2.8	3.7	5.3	6.85
Pdesignh (colder Climate)	kW	4	5.1	5.3	6.85
Rated power input	kW	0.629	0.874	1.424	1.841
SCOP/Energy Label (average Climate)		5.1 / A+++	4.6/A++	4.0/A+	4.0/A+
SCOP/Energy Label (warmer Climate)		6.1/A+++	5.6/A+++	4.6/A++	4.6/A++
SCOP/Energy Label (colder Climate)		4/A+	3.2/B	3.3/B	3.3/B
Operating limits	°C	-20°/24° Dry bulb		-30°/24° Dry bulb	
Capacity @ -10°C	kW	2.65	3.2	4.35	5.6
Capacity @ -15°C	kW	2.4	2.9	3.55	5.2
<b>INDOOR UNIT</b>					
Sound pressure level to 1 m (LS/MS/HS/SS)	dB (A)	26/30/34/43	26/30/34/45	34/38/42/46	37/42/46/51
Sound power level	dB (A)	55	58	60	65
Airflow (LS/MS/HS/SS)	m³/h	350/450/550/650	380/460/610/740	480/630/790/950	780/920/1060/1200
Dehumidification	l/h	0.8	1.40	1.80	2.50
Outline dimensions (WxHxD)	mm	866x292x209	866x292x209	1018x319x230	1178x326x264
Package dimensions (WxHxD)	mm	943x375x301	943x375x301	1097x397x340	1256x414x364
Net weight/Gross weight	kg	11/13	11/13	14/17	17/21
Part number		7SP022926	7SP022927	7SP022928	7SP022929
<b>OUTDOOR UNIT</b>					
Sound pressure level to 1 m	dB (A)	54	55	56	58
Sound power level	dB (A)	63	62	65	68
Airflow	m³/h	2400	2000	3200	4000
Compressor type		Rotary DC Inverter	Rotary DC Inverter	Rotary DC Inverter	Rotary DC Inverter
Outline dimensions (WxHxD)	mm	899x596x378	899x596x378	955x700x396	980x790x427
Package dimensions (WxHxD)	mm	948x420x645	948x420x645	1029x458x750	1083x488x855
Net weight/Gross weight	kg	41/44	43.5/46.5	51/55.5	65/70
Part number		7SP061901	7SP061902	7SP061903	7SP061904
<b>POWER SUPPLY 1~230V - 50 HZ</b>					
Power supply side		Outdoor	Outdoor	Outdoor	Outdoor
Power cable section	mm²	3x1.5	3x1.5	3x1.5	3x2.5
Fuse rating am	A	10A	10A	16A	25A
Electrical connections	mm²	4x1.0	4x1.0	4x1.0	4x1.0
<b>PIPE LINE</b>					
Suction pipe diameter	inches	3/8"	1/2"	1/2"	5/8"
Liquid pipe diameter	inches	1/4"	1/4"	1/4"	1/4"
Max length	m	15	20	25	25
Max height	m	10	10	10	10

## AIRWELL SOLUTIONS



IDU	Compatible with ODU	
	High wall	ODU single
HOD 9 to 18	YOD	YBZE
HOD 24	YOD	



# HND

## HIGH WALL MONO & MULTISPLIT

**UPGRADE**



- High wall line available in capacities 2.7 up to 7 kW.
- -15°C operation in cooling and heating mode.
- A++/A+ class efficiency – minimum energy consumption.
- Turbo mode.
- “I Feel” function with precise room temperature control.

### PRODUCT ADVANTAGES

- Same indoor unit for multi and single applications.
- Full air quality solution includes multi-layer filters electrostatic filter, photocatalytic and anti-bacterial filters as standard.
- Multifan speed in indoor unit.
- Refrigerant leakage detection alarm system.



RC08B

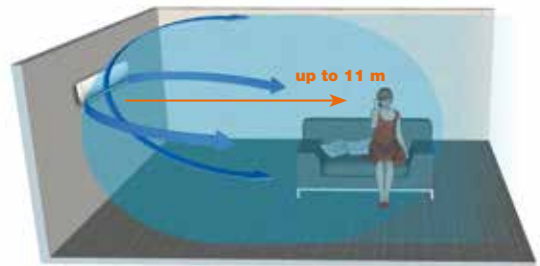


RCW8 (optional)



WIFI OPTION

4 DIMENSIONAL AIRFLOWS FOR MAXIMUM COMFORT



### ACCESSORIES/OPTIONS

Acc.	Ref.	Photo	Description	Function
RCW8	7ACEL1706		Wired single control	Mode, fan speed, timer ON/OFF, temperature, swing and “I Feel”.
Test tool for high wall	7ACEL1710		Service test tool	Capability to view system parameters, history, failure records and parameter adjustments.
ON-OFF dry contact adaptor	7ACEL1190			Option to control from remote with the last operation memory.
Wifi module	7ACEL1719			Control air conditioners by mobile phone, tablet or computer with wireless router and internet.

### FEATURES

FLEXY MATCH	DC INVERTER	1W STANDBY POWER	R410A FLUID	ELECTRONIC EXPANSION VALVE	REFRIGERANT LEAKAGE DETECT	NANO PHOTOCATALYTIC FILTER	AUTO CLEAN/DRY	I FEEL	WIDE ANGLE LOUVER	SLEEP MODE
SUPER QUIET (HND 9-18)	HOT KEEP	DIGITAL DISPLAY	TURBO MODE	PROGRAMMABLE TIMER	SELF DIAGNOSTIC	LOW BATTERY INDICATION	AUTO RESTART (MEMORY)	REMOTE CONTROL LOCK	8°C CONSTANT TEMPERATURE HEATING	LEFT/RIGHT DRAIN CONNEXION
INDOOR MULTI FAN SPEED	OUTDOOR MULTI FAN SPEED	LOW AMBIENT COOLING	LOW AMBIENT HEATING	ACTIVE ELECTROSTATIC FILTER	ELECTROSTATIC FILTER - ANTIBACTERIA	SERVICE MONITOR TOOL				

## HND TECHNICAL DATA

Indoor units		AWSI-HND009-N11	AWSI-HND012-N11	AWSI-HND018-N11	AWSI-HND024-N11
Outdoor units		AWAU-YND009-H11	AWAU-YND012-H11	AWAU-YND018-H11	AWAU-YND024-H11
<b>COOLING</b>					
Rated capacity	kW	2.7 (1.0-3.3)	3.5 (1.2-3.8)	5 (1.4-6.2)	7.0 (2.8-7.6)
Pdesignc	kW	2.7	3.5	5.0	7.0
Rated power input	kW	0.69	1.08	1.56	2.32
SEER/Energy label		6.8/A++	6.8/A++	6.8/A++	5.8/A+
Operating limits	°C	-15°/50° Dry bulb			
<b>HEATING</b>					
Rated capacity	kW	2.8 (1.0-3.5)	3.7 (1.2-4.0)	5.6 (1.4-6.5)	7.2 (2.8-7.8)
Pdesignh (average climate)	kW	2.8	3.6	5.1	6.4
Pdesignh (warmer climate)	kW	2.8	3.6	5.4	7.0
Rated power input	kW	0.7	0.88	1.55	2.11
SCOP/Energy label (average climate)		3.9/A	3.9/A	3.9/A	3.8/A
SCOP/Energy label (warmer climate)		4.8/A++	5.0/A++	4.8/A++	4.6/A++
Operating limits	°C	-15°/30° Dry bulb			
Capacity @ -10°C	kW	2.7	3.0	4.2	5.8
Capacity @ -15°C	kW	2.5	2.6	3.9	5.5
<b>INDOOR UNIT</b>					
Sound pressure level to 1 m (VL/LS/MS/HS)	dB(A)	22/28/34/38	23/28/35/39	29/33/39/45	42/45/48/51
Sound power level	dB(A)	53	57	58	64
Airflow (VL/LS/MS/HS)	m³/h	300/350/460/500	330/380/490/580	560/650/780/1000	980/1050/1280/1450
Dehumidification	l/h	1.0	1.3	1.7	2.6
Outline dimensions (WxHxD)	mm	750x280x198	835x280x198	990x315x218	1186x340x258
Package dimensions (WxHxD)	mm	830x355x270	910x355x270	1065x400x300	1265x420x340
Net weight/Gross weight	kg	8/10.1	9/14	12.5/15.4	16.8/21.7
Part number		7SP022994	7SP022995	7SP022996	7SP022997
<b>OUTDOOR UNIT</b>					
Sound pressure level to 1 m	dB(A)	51	52	53	59
Sound power level	dB(A)	60	62	63	69
Airflow	m³/h	1800	1800	2200	2700
Compressor type		Rotary DC Inverter	Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter
Outline dimensions (WxHxD)	mm	760x590x285	760x590x285	760x590x285	845x700x320
Package dimensions (WxHxD)	mm	887x645x355	887x645x355	887x645x355	965x755x395
Net weight/Gross weight	kg	32.8/35.2	32.9/35.2	36.4/38.8	51.2/54.5
Part number		7SP062817	7SP062818	7SP062819	7SP062820
<b>POWER SUPPLY 1~230V - 50 HZ</b>					
Power supply side		Indoor	Indoor	Indoor	Outdoor
Power cable section	mm²	3x1.5	3x1.5	3x1.5	3x2.5
Fuse rating	A	10	10	16	25
Electrical connections	mm²	4x1.5	4x1.5	4x1.5	5x2.5
<b>PIPE LINE</b>					
Suction pipe diameter	inches	3/8"	3/8"	1/2"	5/8"
Liquid pipe diameter	inches	1/4"	1/4"	1/4"	3/8"
Max length	m	20	20	20	25
Max height	m	8	8	8	10

## AIRWELL SOLUTIONS



IDU	Compatible with ODU		
	High wall	ODU single	ODU multi
HND 9 to 18	YND	YND	YCY
HND 24	YND	YND	



# HKD

## HIGH WALL MONO & MULTISPLIT

**UPGRADE**



- High wall line available in capacities 2.7 up to 6.25 kW.
- -15°C operation in cooling and heating mode.
- A++/A+ class efficiency in cooling – minimum energy consumption.
- Photocatalytic and antibacterial filters as standard.
- “I Feel” function with precise room temperature control.

### PRODUCT ADVANTAGES

- Same indoor unit for multi and single applications.
- Left/right drain connexion.
- Multifan speed in indoor unit.
- Self clean/dry.



RC08B

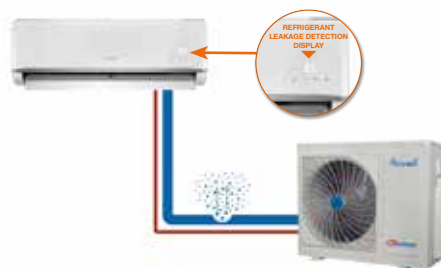


RCW8 (optional)



WIFI OPTION

REFRIGERANT LEAKAGE DETECTION ALARM SYSTEM



### ACCESSORIES/OPTIONS

Acc.	Ref.	Photo	Description	Function
RCW8	7ACEL1706		Wired single control	Mode, fan speed, timer ON/OFF, temperature, swing and “I Feel”.
Test tool for high wall	7ACEL1710		Service test tool	Capability to view system parameters, history, failure records and parameter adjustments.
ON-OFF dry contact adaptor	7ACEL1190			Option to control from remote with the last operation memory.
Wifi module	7ACEL1719			Control air conditioners by mobile phone, tablet or computer with wireless router and internet.

### FEATURES

FLEXY MATCH

DC INVERTER

R410A FLUID

REFRIGERANT LEAKAGE DETECT

1W STANDBY POWER

NANO PHOTOCATALYTIC FILTER

AUTO CLEAN/DRY

I FEEL

SLEEP MODE

SUPER QUIET (HKD 12-24)

HOT KEEP

DIGITAL DISPLAY

TURBO MODE

PROGRAMMABLE TIMER

SELF DIAGNOSTIC

LOW BATTERY INDICATION

AUTO RESTART (MEMORY)

REMOTE CONTROL LOCK

8°C CONSTANT TEMPERATURE HEATING

LEFT/RIGHT DRAIN CONNEXION

INDOOR MULTI FAN SPEED

OUTDOOR MULTI FAN SPEED

LOW AMBIENT COOLING

LOW AMBIENT HEATING

ACTIVE ELECTROSTATIC FILTER

ELECTROSTATIC FILTER - ANTIBACTERIA

WIDE ANGLE LOUVER (HKD 18-24)

SERVICE MONITOR TOOL

## HKD TECHNICAL DATA

Indoor units		AWSI-HKD009-N11	AWSI-HKD012-N11	AWSI-HKD018-N11	AWSI-HKD024-N11
Outdoor units		AWAU-YKD009-H11	AWAU-YKD012-H11	AWAU-YKD018-H11	AWAU-YKD024-H11
<b>COOLING</b>					
Rated capacity	kW	2.7 (1.0-3.2)	3.2 (1.2-3.8)	5.0 (1.4-6.2)	6.25 (2.5-7.2)
Pdesignc	kW	2.7	3.2	5.0	6.25
Rated power input	kW	0.79	1.00	1.66	2.08
SEER/Energy label		5.8/A+	5.8/A+	6.5/A++	6.2/A++
Operating limits	°C	-15°/50° Dry bulb			
<b>HEATING</b>					
Rated capacity	kW	2.8 (1.0-3.4)	3.5 (1.2-4.0)	5.1 (1.4-6.4)	7.0 (2.5-7.5)
Pdesignh (average climate)	kW	2.4	3.05	4.8	6.3
Pdesignh (warmer climate)	kW	2.7	3.8	5.1	7.0
Rated power input	kW	0.72	0.97	1.41	2.18
SCOP/Energy label (average climate)		3.8/A	3.8/A	3.8/A	3.8/A
SCOP/Energy label (warmer climate)		4.8/A++	4.6/A++	4.8/A++	4.6/A++
Operating limits	°C	-15°/30° Dry bulb			
Capacity @ -10°C	kW	2.3	2.8	3.6	4.8
Capacity @ -15°C	kW	2.1	2.5	3.1	4.2
<b>INDOOR UNIT</b>					
Sound pressure level to 1 m (VL/LS/MS/HS)	dB(A)	24/26/32/37	24/26/32/38	30/33/37/43	34/37/41/47
Sound power level	dB(A)	58	58	58	64
Airflow (VL/LS/MS/HS)	m³/h	390/410/440/540	400/430/470/550	460/500/580/730	650/750/900/1000
Dehumidification	l/h	1.0	1.1	1.7	2.4
Outline dimensions (WxHxD)	mm	800x275x188	800x275x188	940x275x205	1045x315x235
Package dimensions (WxHxD)	mm	865x350x265	865x350x265	1015x350x265	1135x315x395
Net weight/Gross weight	kg	6.5/9.5	7.5/9.5	9.5/12.5	12.2/15.3
Part number		7SP022990	7SP022991	7SP022992	7SP022993
<b>OUTDOOR UNIT</b>					
Sound pressure level to 1 m	dB(A)	52	53	55	58
Sound power level	dB(A)	64	64	65	69
Airflow	m³/h	1800	1800	2200	2700
Compressor type		Rotary DC Inverter	Rotary DC Inverter	Rotary DC Inverter	Twin Rotary DC Inverter
Outline dimensions (WxHxD)	mm	780x540x250	780x540x250	760x590x285	845x700x320
Package dimensions (WxHxD)	mm	910x585x335	910x585x335	887x645x355	965x755x395
Net weight/Gross weight	kg	27.5/30	27.5/29.5	35/37.5	46.7/50
Part number		7SP062813	7SP062814	7SP062815	7SP062816
<b>POWER SUPPLY 1~230V - 50 HZ</b>					
Power supply side		Indoor	Indoor	Indoor	Outdoor
Power cable section	mm²	3x1.5	3x1.5	3x1.5	3x2.5
Fuse rating	A	10	10	16	25
Electrical connections	mm²	4x1.5	4x1.5	4x1.5	5x2.5
<b>PIPE LINE</b>					
Suction pipe diameter	inches	3/8"	3/8"	1/2"	5/8"
Liquid pipe diameter	inches	1/4"	1/4"	1/4"	3/8"
Max length	m	20	20	20	25
Max height	m	8	8	8	10

## AIRWELL SOLUTIONS



IDU	Compatible with ODU		
	High wall	ODU single	ODU multi
HKD 9 to 18	YKD	YKZ	
HKD 24	YKD		

**[ MODEL NAME ]**

Page

INVERTER DUCTED LOW STATIC  
PRESSURE MONOSPLIT &  
MULTISPLIT PREMIUM

**DLF**



32

INVERTER DUCTED MEDIUM  
STATIC PRESSURE MONOSPLIT &  
MULTISPLIT PREMIUM

**DLSE**



36

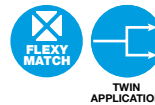
HEAT RECOVERY UNIT  
DOUBLE FLOW EXCHANGER

**HRV**



42

INVERTER DUCTED MEDIUM STATIC  
PRESSURE MONOSPLIT  
MULTISPLIT → ONLY SIZE 12



**DCD**



44

ON/OFF DUCTED  
MEDIUM STATIC PRESSURE

**DBF**



48

ON/OFF DUCTED  
HIGH STATIC PRESSURE 68 TO 136

**DAF**



50

ON/OFF DUCTED  
HIGH STATIC PRESSURE

**DK DN**



52

**Ducted Range**

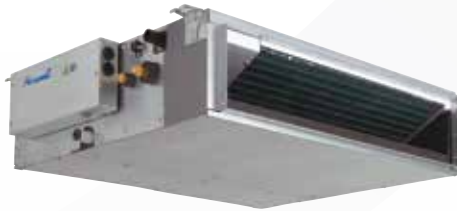
12 3.5 kW	18 5 kW	24 7 kW	30 8 kW	36 10 kW	45 12.5 kW	60 16 kW	68-136 20-39.5 kW	40-85 kW
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800 m<sup>3</sup>/h                      1 000 m<sup>3</sup>/h



● Unique  
● solutions



D L F





# Unique and advanced design for vertical or horizontal installation

## VERTICAL INSTALLATION

- Vertical installation with compact dimensions, only 200 mm dept.
- The best solution for replacing radiator.
- The best solution in places with no space for ceiling installation.
- Create a clean and modern design after installation.

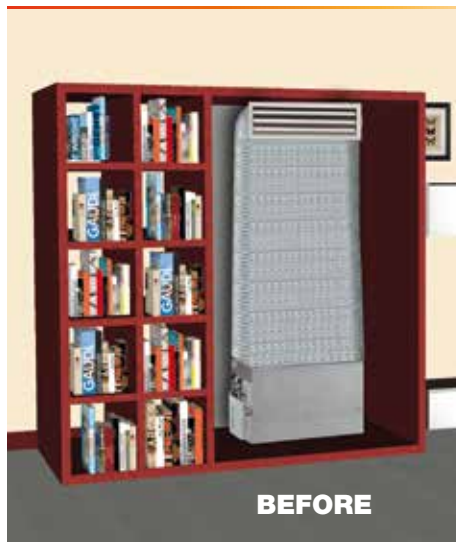
【 BEFORE 】



【 AFTER 】

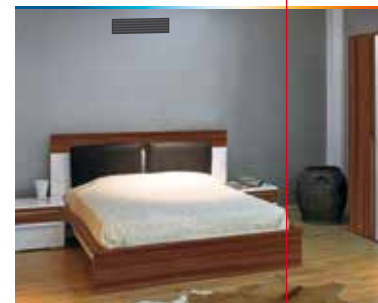
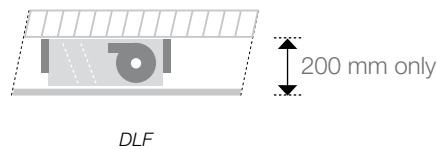
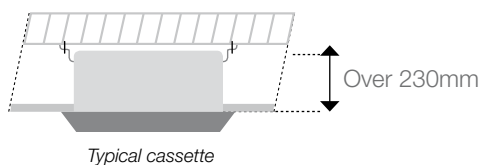


【 COMBINATION MODERN CONSTRUCTION 】



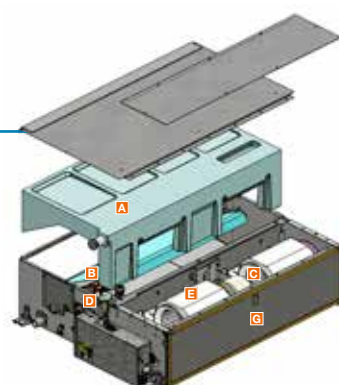
## HORIZONTAL INSTALLATION

- Space saving by minimizing the requirement of the ceiling height.
- Ideal solution for hotel and bedroom due to super quiet and extremely compact design.



## COMPREHENSIVE STRUCTURE DESIGN

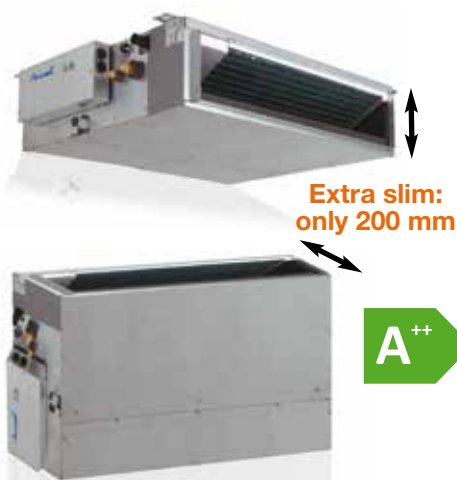
- |                                   |                     |
|-----------------------------------|---------------------|
| <b>A</b> Drain pan                | <b>E</b> Fan        |
| <b>B</b> Coil                     | <b>F</b> Controller |
| <b>C</b> DC motor                 | <b>G</b> Air filter |
| <b>D</b> Water pump + water level |                     |



# DLF



## DUCTED LOW STATIC PRESSURE MONO & PREMIUM MULTISPLIT



Extra slim: only 200 mm



- Ducted line available in capacities from 3.5 up to 7 kW.
- Cooling & heating operation mode.
- DC Inverter and sine wave compressor drive technology.
- "I Feel" function with precise room temperature control.



RC08W



RCW2 (optional)

### PRODUCT ADVANTAGES

- Unique and advanced design for horizontal or vertical installation.
- Low silhouette only 200 mm.
- Unit equipped with water pump and overflow switch protector.
- Super quiet line thanks to advance aerodynamic fans and DC motor.
- Heating mode only force option.
- Treatment of corrosion on outdoor units and electronic cards.
- Possibility to reverse dry contact: normally open / normally closed.



24 dB(A)

### ACCESSORIES/OPTIONS

Acc.	Ref.	Photo	Description	Additional accessory required	Function														
RCW2	7ACEL1212		Wired group control.		- Control up to 32 indoor units as a group or individually. - Option to set up to 15 group zones. - Option to set timer (daily and weekly), mode, fan speed and swing.														
RCL	7ACEL1447		Simple wired remote control.	CBI-B 7ACEL1616	Simple functions as: ON/OFF, operating mode, temperature up and down, fan speed selection and room temperature.														
CBI-B	7ACEL1616		Communication interface board. Heating model only option.	Kit is including cables.	- RS485, RCW2, RCL remote controls. - 1 reversible dry contact input (selecting by dip switches). - Alarm status output (12V DC). - ON/OFF status output (12V DC).														
Duct plenum for DLF 12/18	7ACVF0516		Duct plenum for DLF 12/18.		Round duct connection with the following combination.														
Duct plenum for DLF 24	7ACVF0517		Duct plenum for DLF 24.		<table border="1"> <thead> <tr> <th rowspan="2">Indoor model name</th> <th colspan="2">Hoses connection</th> </tr> <tr> <th>Option 1</th> <th>Option 2</th> </tr> </thead> <tbody> <tr> <td>DLF 12</td> <td>2x6"</td> <td>-</td> </tr> <tr> <td>DLF 18</td> <td>3x6"</td> <td>1x6" + 1x8"</td> </tr> <tr> <td>DLF 24</td> <td>4x6"</td> <td>1x6" + 2x8"</td> </tr> </tbody> </table>	Indoor model name	Hoses connection		Option 1	Option 2	DLF 12	2x6"	-	DLF 18	3x6"	1x6" + 1x8"	DLF 24	4x6"	1x6" + 2x8"
Indoor model name	Hoses connection																		
	Option 1	Option 2																	
DLF 12	2x6"	-																	
DLF 18	3x6"	1x6" + 1x8"																	
DLF 24	4x6"	1x6" + 2x8"																	

### FEATURES

DC INVERTER

LOW VOLTAGE STARTUP

LOW TEMPERATURE STARTUP

R410A FLUID

ELECTRONIC EXPANSION VALVE

AUTO CLEAN/DRY

FILTER CLEAN INDICATION

I FEEL

SLEEP MODE

SUPER QUIET

HOT KEEP

TURBO MODE

PROGRAMMABLE TIMER

SELF DIAGNOSTIC

LOW BATTERY INDICATION

AUTO RESTART (MEMORY)

REMOTE CONTROL LOCK

ADVANCED DEFOST

INTEGRATED WATER PUMP

FREQUENCY CONTROL INCLUDING AIRFLOW

ALARM OUTPUT

PRESENCE DETECTOR INPUT

SERVICE MONITOR TOOL

POWER CONSUMPTION CONTROL

WIRED REMOTE CONTROL DIAGNOSTIC

OUTDOOR UNIT DIGITAL DIAGNOSTIC

OUTDOOR UNIT NIGHT MODE DRY CONTACT (DLF 18-24)

OUTDOOR UNIT STAND-BY (DLF 18-24)

OUTDOOR UNIT ALARM OUTPUT (DLF 18-24)

FULL LENGTH REFRIGERANT PRECHARGE

TECHNICIAN TEST MODE

LOW AMBIENT COOLING

LOW AMBIENT HEATING





BMS COMPATIBLE

## DLF TECHNICAL DATA

Indoor units		AWSI-DLF012-N11	AWSI-DLF018-N11	AWSI-DLF024-N11
Outdoor units		AWAU-YBDE012-H11	AWAU-YBDE018-H11	AWAU-YBDE024-H11
<b>COOLING</b>				
Rated capacity	kW	<b>3.5 (1.4-4.3)</b>	<b>5.0 (1.5-5.8)</b>	<b>7.0 (1.5-7.5)</b>
Pdesignc	kW	<b>3.5</b>	<b>5.0</b>	<b>7.0</b>
Rated power input	kW	0.95	1.23	1.70
SEER/Energy label		5.61/A+	5.4/A	5.6/A+
Operating limits	°C	-10°/46° Dry bulb		
<b>HEATING</b>				
Rated capacity	kW	<b>4.3 (1.5-5.8)</b>	<b>5.6 (1.3-6.8)</b>	<b>7.6 (1.5-8.8)</b>
Pdesignh	kW	<b>3.5</b>	<b>4.8</b>	<b>7.5</b>
Rated power input	kW	1.16	1.52	1.78
SCOP/Energy label (average climate)		4.00/A+	3.9/A	3.8/A
SCOP/Energy label (warmer climate)		-	4.3/A+	<b>4.7/A++</b>
Operating limits	°C	-15°/24° Dry bulb		
Capacity @ -10°C	kW	2.45	5.3	5.4
Capacity @ -15°C	kW	2.2	4.7	4.8
<b>INDOOR UNIT</b>				
Sound pressure level to 1 m (LS/MS/HS)	dB(A)	24/27/31	29/32/35	32/35/39
Sound power level (LS/MS/HS)	dB(A)	45/49/53	48/51/54	56/59/63
Airflow (LS/MS/HS)	m³/h	490/580/650	540/600/710	900/950/1150
External static pressure Range	Pa	0-30	0-40	0-40
Dehumidification	l/h	1	1.8	2.7
Outline dimensions (WxHxD)	mm	750x630x200	750x630x200	1050x630x200
Package dimensions (WxHxD)	mm	890x710x243	890x710x243	1190x710x243
Net weight/Gross weight	kg	20/23	21/23	25/28
Part number		<b>7SP022747</b>	<b>7SP022748</b>	<b>7SP022749</b>
<b>OUTDOOR UNIT</b>				
Sound pressure level to 1 m	dB(A)	52	53	55
Sound power level	dB(A)	62	65	67
Airflow	m³/h	1780	2500	2750
Compressor type		Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter
Outline dimensions (WxHxD)	mm	795x610x290	900x700x340	900x700x340
Package dimensions (WxHxD)	mm	970x650x394	985x730x435	985x730x435
Net weight/Gross weight	kg	38.5/42.5	56/58.5	61/63.5
Part number		<b>7SP061820</b>	<b>7SP061886</b>	<b>7SP061887</b>
<b>POWER SUPPLY 1~230V - 50 HZ</b>				
Power supply side		Indoor	Indoor & Outdoor	Outdoor
Power cable section	mm²	3x1.5	3x2.5	3x2.5
Fuse rating am	A	16	20	20
Electrical connections	mm²	4x1.5	4x1.5	4x1.5
<b>PIPE LINE</b>				
Suction pipe diameter	inches	3/8"	1/2"	5/8"
Liquid pipe diameter	inches	1/4"	1/4"	3/8"
Max length	m	20	30	30
Max height	m	10	15	15

## AIRWELL SOLUTIONS



IDU	Compatible with ODU
Ducted	ODU single
<p>DLF 12</p> 	<p>YBDE</p> 
<p>DLF 18 &amp; 24</p> 	<p>YBDE</p> 

• Unique  
• solutions

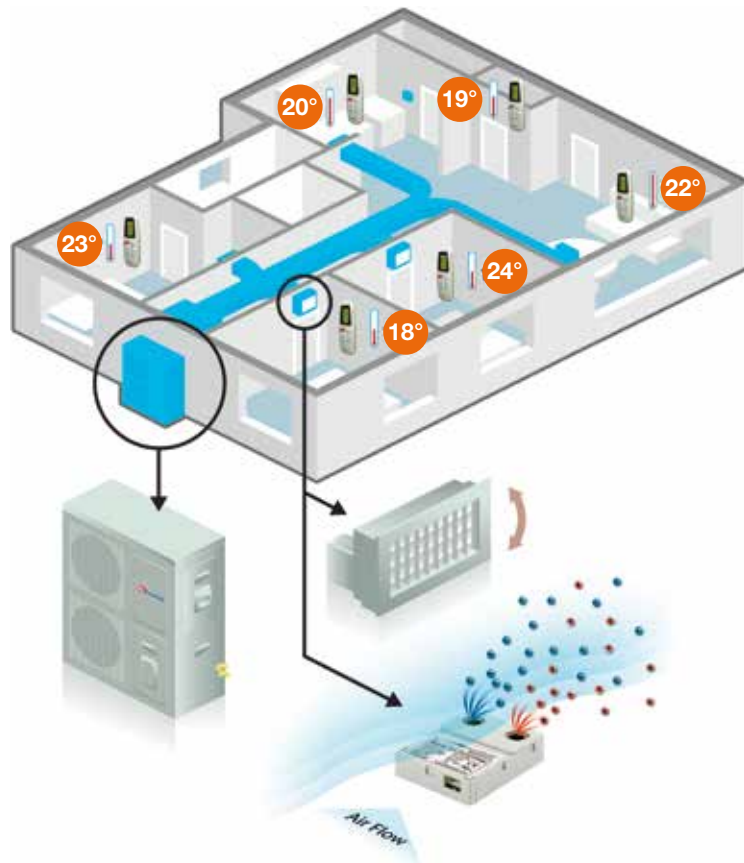
# DLSE Plus VAV

## Variable Air Volume

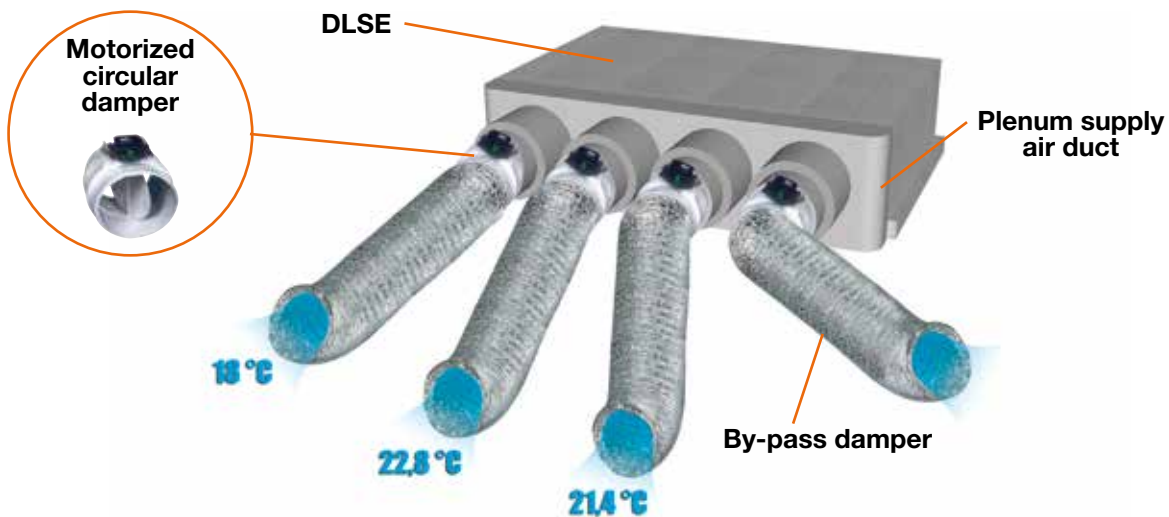


Zone control:  
Ideal temperature in each room

**RECTANGULAR APPLICATION**



**ROUND APPLICATION**



# DLSE Plus VAV

## Zone control function

- Intelligent air conditioning: Control up to 6 rooms.
- Each zone has a stand alone remote control, to control temperature, "I Feel" and ON/OFF.
- Option to define automatic damper movement or manually to keep max opening position.
- "I Feel" function to measure local temperature.
- Stop the system while all rooms reach the set temperatures and change the motor speed to low load.
- By-pass damper operates according to system load, the damper position logic has an option to set up a different logic formula.
- Auto-mode: automatically recognizes cooling or heating mode.
- Motorized damper with DC step motor for accurate damper position.

## Energy and cost saving

- Two levels of energy saving:
  - Level A - by the inverter system follow the area load.
  - Level B - by adjusting the airflow and eliminate load from non used rooms.



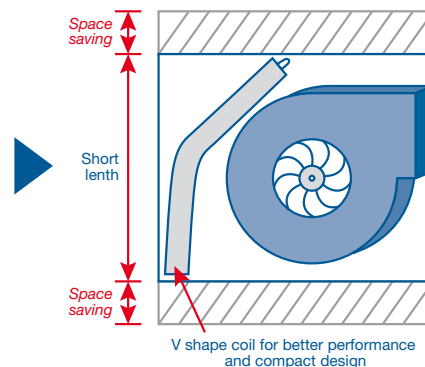
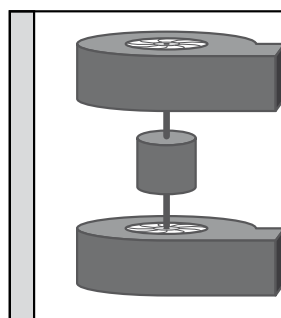
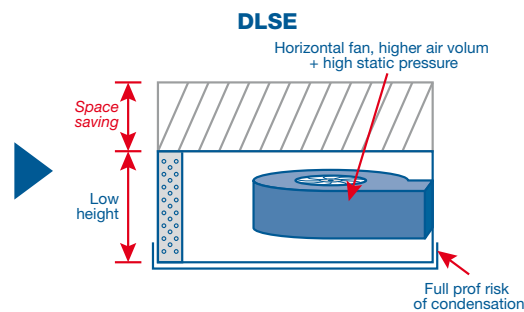
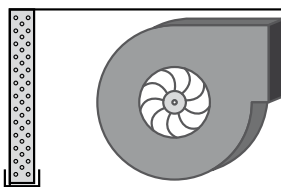
## Easy installation

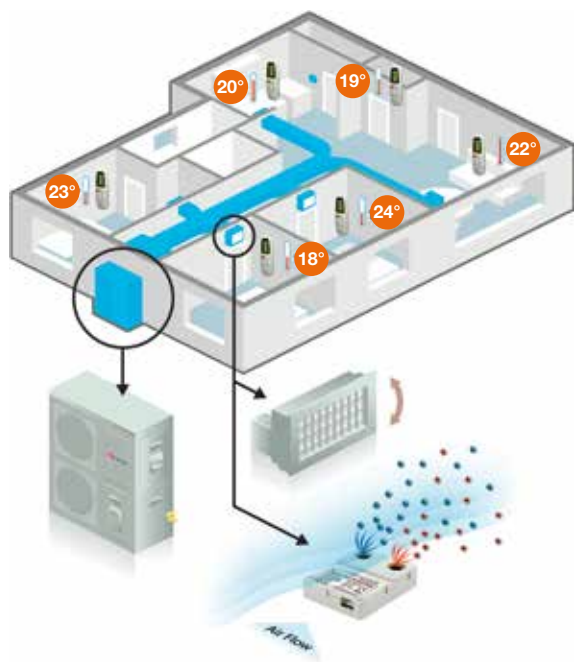
- Simple wiring connection by connectors and set up.
- Pre charge system with tubing up to 70 m.
- Standard indoor unit.
- Option to locate the control box besides the unit.
- Water pump and over flow switch built in.

## Special design for your convenience

- Unique V shape coil.
- Extra slim indoor unit (low height: 256 mm only).

### STANDARD DESIGN





## How to order?

- For each installation need to select first the damper type, round or rectangular.
- The main controller is identical except the set up which is done during the installation.
- Once damper type selected order the grills, by-pass damper and the controller following the below tables.




### MOTORIZED ROUND TYPE ACCESSORIES

Part description	Product code
Main controller VAV kit	7ACEL1641
Motorized round damper (D=150 mm) kit	7ACEL1648
Motorized round damper (D=200 mm) kit	7ACEL1649
Motorized round damper (D=250 mm) kit	7ACEL1650
Motorized by-pass round damper (D=200 mm) kit	7ACEL1651
Motorized by-pass round damper (D=250 mm) kit	7ACEL1652

### MOTORIZED RECTANGULAR TYPE ACCESSORIES

Part description	Product code
Main controller VAV kit	7ACEL1641
Motorized grill (30 cm x 15 cm) kit	7ACEL1642
Motorized grill (40 cm x 15 cm) kit	7ACEL1643
Motorized grill (50 cm x 15 cm) kit	7ACEL1644
Motorized by-pass damper (40 cm x 15 cm) kit	7ACEL1645
Motorized by-pass damper (50 cm x 15 cm) kit	7ACEL1646
Duct frame profile for grille 150 mm	7ACVF0551
Duct frame profile for grille 300 mm	7ACVF0552
Duct frame profile for grille 400 mm	7ACVF0553
Duct frame profile for grille 500 mm	7ACVF0554
Sterionizer kit for motorized grill	7ACEL1655

### PLENUM ACCESSORIES

Part description	Dimensions (WxHxD mm)	Diameter of duct (mm)	Product code
Universal plenum 3 ducts* 	1100x350x370	250/200/160	7ACVF0127
Universal plenum 4 ducts* 	1050x350x280	250/200/160	7ACVF0128
Universal plenum 6 ducts* 	1485x350x420	4x200/160/2x250	7ACVF0129

\* Supplied with one set of fixing elastomers, 1 manual and 6, 8 or 12 caps.



# DLSE DLSE+VAV

Unique solutions

## DUCTED MEDIUM STATIC PRESSURE MONO & PREMIUM MULTISPLIT



- Ducted line available in capacities from 5 up to 12.5 kW.
- Cooling & heating operation mode.
- Wireless remote control included with option of wired control.
- "I Feel" function with precise room temperature control.

### PRODUCT ADVANTAGES

- Unique fan technology increase air volume and high static pressure keeping low noise level.
- Quiet operation by using aerodynamic centrifugal fan.
- Unit equipped with water pump and overflow switch protector.
- Space saving due to low unit height and compact dimensions.
- Tubing length up to 50 m and different height of 25 m.
- External static pressure up to 100 Pa.
- Treatment of corrosion on outdoor units and electronic cards.
- Possibility to reverse dry contact: normally open / normally closed.



RC08W



RCW2  
(optional)

### ACCESSORIES/OPTIONS

Acc.	Reference	Photo	Description	Additional accessory required	Function
RCW2	7ACEL1212		Wired group control.		- Control up to 32 indoor units as a group or individually. - Option to set up to 15 group zones. - Option to set timer (daily and weekly), mode, fan speed and swing.
RCL	7ACEL1447		Simple wired remote control.	CBI-B 7ACEL1616	Simple functions as: ON/OFF, operating mode, temperature up and down, fan speed selection and room temperature.
CBI-B	7ACEL1616		Communication interface board. Heating model only option.	Kit is including cables.	- RS485, RCW2, RCL remote controls. - 1 reversible dry contact input (selecting by dip switches). - Alarm status output (12V DC). - ON/OFF status output (12V DC).

### FEATURES

 DC INVERTER	 LOW VOLTAGE STARTUP	 LOW TEMPERATURE STARTUP	 R410A FLUID	 ELECTRONIC EXPANSION VALVE	 VAV COMPATIBILITY	 I FEEL	 SLEEP MODE	 SUPER QUIET	 HOT KEEP	 TURBO MODE
 PROGRAMMABLE TIMER	 SELF DIAGNOSTIC	 LOW BATTERY INDICATION	 AUTO RESTART (MEMORY)	 REMOTE CONTROL LOCK	 ADVANCED DEFROST	 PRESENCE DETECTOR INPUT	 SERVICE MONITOR TOOL	 POWER CONSUMPTION CONTROL	 WIRED REMOTE CONTROL DIAGNOSTIC	 OUTDOOR UNIT DIGITAL DIAGNOSTIC
 OUTDOOR UNIT NIGHT MODE DRY CONTACT (DLSE 24-30-36)	 OUTDOOR UNIT STAND-BY (DLSE 24-30-36)	 OUTDOOR UNIT ALARM OUTPUT (DLSE 24-30-36)	 TECHNICIAN TEST MODE	 LOW AMBIENT COOLING	 LOW AMBIENT HEATING	 STERIONIZER (WITH MOTORIZED GRILL)	 ALARM OUTPUT	 BMS COMPATIBLE		





## DLSE TECHNICAL DATA

Indoor units		AWSI-DLSE018-N11	AWSI-DLSE024-N11	AWSI-DLSE030-N11	AWSI-DLSE036-N11		DLSE 43 DCI R410 AW	
Outdoor units		AWAU-YBDE018-H11	AWAU-YBDE024-H11	AWAU-YBDE030-H11	AWAU-YBD036-H11	AWAU-YBD036-H13	AWAU-YBD042-H11	AWAU-YAD042-H13
<b>COOLING</b>								
Rated capacity	kW	5.0 (2.3-5.9)	6.8 (1.7-7.4)	7.5 (2.8-8.4)	9.5 (4.8-12.5)	9.5 (4.8-12.5)	12.5 (4.5-14.5)	12.5 (4.5-14.5)
Pdesignc	kW	5.0	6.8	7.5	9.5	9.5	-	-
Rated power input	kW	1.22	1.93	2.46	3.31	3.04	3.73	3.56
SEER/Energy label		5.8/A+	5.4/A	5.5/A	5.6/A+	4.7/B	3.35/A	3.51/A
Operating limits	°C	-10°/46° Dry bulb						
<b>HEATING</b>								
Rated capacity	kW	5.6 (1.9-7.5)	7.6 (1.8-8.5)	8.6 (2.8-9.4)	10.5 (2.7-12.5)	11.6 (4.9-12.5)	14.0 (4.5-16.0)	14.0 (4.5-16.0)
Pdesignh		5.5	7.5	8.6	9.5	10.5	-	-
Rated power input	kW	1.35	1.88	2.31	2.80	3.00	4.1	3.99
SCOP/Energy label (average climate)		3.9/A	3.8/A	3.9/A	3.8/A	3.9/A	3.41/B	3.51/B
SCOP/Energy label (warmer climate)		4.6/A+	4.9/A++	4.3/A+	4.6/A+	4.7/A++	-	-
Operating limits	°C	-15°/24° Dry bulb						
Capacity @ -10°C	kW	5.3	5.8	7.1	6.9	8.9	9.3	9.3
Capacity @ -15°C	kW	4.7	5.2	6.3	6.2	8.0	8.3	8.3
<b>INDOOR UNIT</b>								
Sound pressure level to 1 m (LS/MS/HS/SS)	dB(A)	35/38/41/43	38/42/45/48	39/43/46/48	41/45/46/48	41/45/46/48	42/46/53	42/46/53
Sound power level (LS/MS/HS/SS)	dB(A)	52/55/58/60	55/59/62/65	56/60/63/65	56/61/63/65	56/61/63/65	57/61/70	57/61/70
Airflow (LS/MS/HS/SS)	m³/h	740/875/1060/1150	870/1090/1220/1410	950/1140/1290/1410	1290/1550/1670/1750	1290/1550/1670/1750	1315/1530/2025	1315/1530/2025
External static pressure Range	Pa	25 (25-60)	25 (25-80)	25 (25-80)	37 (37-100)	37 (37-100)	50 (50-100)	50 (50-100)
Dehumidification	l/h	1.5	2.3	2.7	3.5	4.6	3.3	3.8
Outline dimensions (WxHxD)	mm	790x256x749	790x256x749	790x256x749	854x297x816	854x297x816	854x297x816	854x297x816
Package dimensions (WxHxD)	mm	960x300x855	960x300x855	960x300x855	1005x345x915	1005x345x915	1005x345x915	1005x345x915
Net weight/Gross weight	kg	29/31.5	30/32.5	31/33.5	33/35.5	33/35.5	33/35.5	33/35.5
Part number		7SP032154	7SP032155	7SP032156	7SP032157	7SP032157	7SP032087	7SP032087
<b>OUTDOOR UNIT</b>								
Sound pressure level to 1 m	dB(A)	53	55	56	58	58	58	58
Sound power level	dB(A)	65	67	68	69	69	70	70
Airflow	m³/h	2500	2750	3400	4150	4150	5700	5700
Compressor type		Twin Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter	Scroll DC Inverter	Twin Rotary DC Inverter
Outline dimensions (WxHxD)	mm	900x700x340	900x700x340	900x860x340	900x970x340	900x970x340	900x1250x340	900x1250x340
Package dimensions (WxHxD)	mm	985x730x435	985x730x435	985x905x435	985x1020x435	985x1020x435	980x1400x420	980x1400x420
Net weight/Gross weight	kg	56/58.5	61/63.5	66/68.5	80/82.8	85/87.8	110/121	110/121
Part number 1-230V - 50 Hz		7SP061886	7SP061887	7SP061888	7SP061811	-	7SP061815	-
Part number 3-400V - 50 Hz		-	-	-	-	7SP061900	-	7SP061757
<b>POWER SUPPLY 1-230V - 50 HZ</b>								
Power supply side		Ind. & Out.	Outdoor	Outdoor	Outdoor	-	Outdoor	-
Power cable section	mm²	3x2.5	3x2.5	3x2.5	3x4.0	-	3x6.0	-
Fuse rating	A	20	20	20	25	-	32	-
Electrical connections	mm²	4x1.5	4x1.5	4x1.5	3x1.5 + 2x0.75	-	3x1.5 + 2x0.75	-
<b>POWER SUPPLY 3-400V - 50 HZ</b>								
Power supply side		-	-	-	-	Outdoor	-	Outdoor
Power cable section	mm²	-	-	-	-	5x2.5	-	5x2.5
Fuse rating am	A	-	-	-	-	3x16	-	3x16
Electrical connections	mm²	-	-	-	-	3x1.5 + 2x0.75	-	3x1.5 + 2x0.75
<b>PIPE LINE</b>								
Suction pipe diameter	inches	1/2"	5/8"	5/8"	5/8"	5/8"	3/4"	3/4"
Liquid pipe diameter	inches	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Max length	m	30	30	50	70	70	70	70
Max height	m	15	15	25	30	30	30	30

## AIRWELL SOLUTIONS



IDU	Compatible with ODU
Ducted	ODU single
DLSE 18	YBDE
	
DLSE 24 to 42	YBDE
	



# HRV

## HEAT RECOVERY UNIT DOUBLE FLOW EXCHANGER

- Two levels of air volume capacity 800 and 1000 m<sup>3</sup>/h
- Three operation modes: auto/heat recovery/collateral
- Four fan speeds
- ON/OFF 24h timer option



RWV03

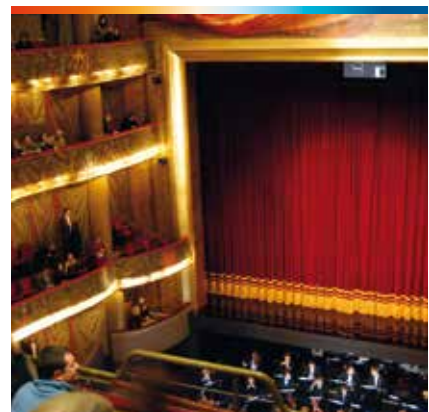
### PRODUCT ADVANTAGES

- Heat recovery.
- High efficiency heat transfer.
- Wide operating range.
- Adjustable airflow, operating mode and tier.
- Dual flow system promoting the air mix and recovery of calories.
- Independently integrable to a VRF installation.
- The remote control is compatible with our VRF range.

### HRV TECHNICAL DATA

Indoor units		AWSI-HRV0800-N11	AWSI-HRV1000-N11
Code		7SP03H023	7SP03H024
<b>ELECTRICAL PARAMETERS</b>			
Power supply	Ph/V/Hz	1/220~230/50	1/220~230/50
Rated Input power	kW	0.36	0.36
Rated current	A	1.65	1.65
<b>PERFORMANCE</b>			
Airflow (LS/HS)	m <sup>3</sup> /h	800/900	850/1000
Noise level (LS/HS)	dB(A)	55/57	55/57
Static pressure	Pa	120	100
<b>INSTALLATION</b>			
External dimensions (WxHxD)	mm	1112x387x1216	1227x387x1115
Shipping dimensions (WxHxD)	mm	1452x410x1220	1465x430x1213
Net/Shipping weight	kg	85.5/90.6	85.5/90.6

### AIRWELL SOLUTIONS



• Unique  
• solutions

DCD



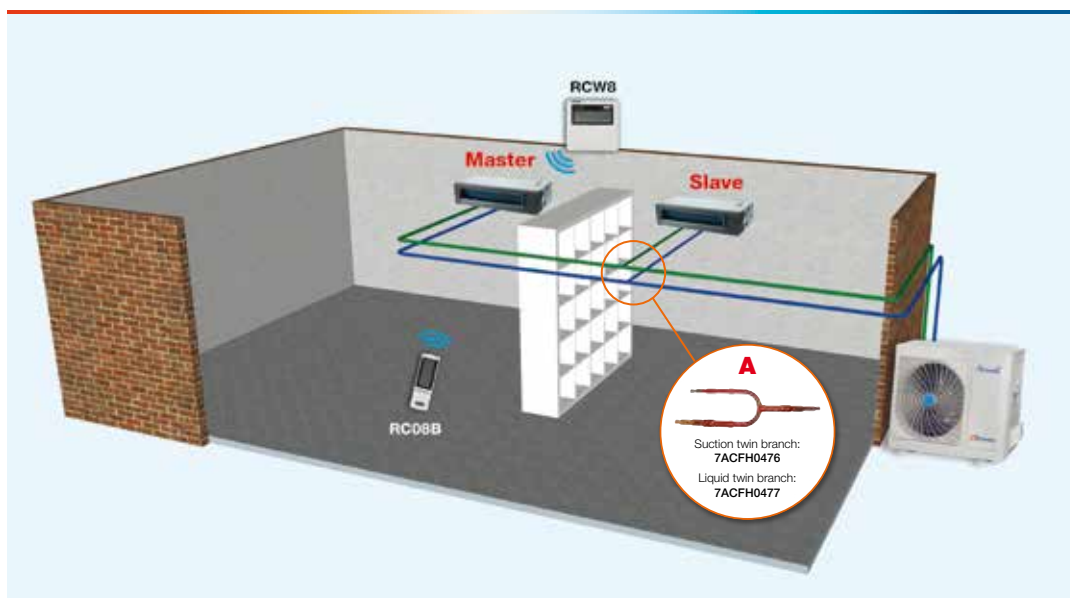
# Twin application



The twin application is used mainly in big open space once the space area is controlling by one controller only for 2 units. Airwell twin design allows to connect two similar indoor units to one common outdoor unit. The two indoor units working in the same function and set up once one indoor unit use as a master.

## The most economical solution for single-area spaces:

- Simple installation by having one refrigerant and control system.
- Space saving by using one outdoor unit instead of two.
- Low cost installation.
- Simple control, one control station for big space.
- Option to control by wireless or wired controller.
- Ducted or cassette application.



Capacity combinations	Indoor units	Outdoor units	Tubing & charge instructions	YLD036	YLD048	YLD060
Twin system	DCD018 + DCD018	YLD036	Pipe diameter (liquid-gas) (inches)	3/8"-5/8"		
	DCD024 + DCD024	YLD048	Max length (m)	30	50	50
	DCD030 + DCD030	YLD060	Max. length difference (m)	10		

## ACCESSORIES/OPTIONS

Acc.	Reference	Photo	Description	Function
Branch gas	7ACFH0476		Twin branch suction	Tube branch to collect all suction lines. <b>Mandatory for Twin application.</b>
Branch liquid	7ACFH0477		Twin branch liquid	Tube branch to collect all liquid lines. <b>Mandatory for Twin application.</b>



**DCD**   
TWIN APPLICATION

DUCTED MEDIUM STATIC PRESSURE  
MONOSPLIT / MULTISPLIT → Only size 12



- Ducted line available in capacities from 3.5 up to 16 kW.
- Cooling & heating operation mode.
- DC Inverter and sine wave compressor drive technology.
- "I Feel" function with precise room temperature control.
- Available in 3PH from 10 kW.

**PRODUCT ADVANTAGES**

- **Integrated water pump.**
- **Full range of accessories and controls.**
- Air return option from rear or bottom side.
- Built in drain water pump.
- Option to connect to central controller or wireless remote control.
- Air filter is included.
- Twin application.



RCW8  
(STD)














RCW6  
(optional)





RC08B  
(optional)


ACCESSORIES/OPTIONS


Acc.	Reference	Photo	Description	Function
Panel for DCD12	7ACVF0559		Air return grill DCD12	
Front board for DCD12	7ACEL1699		Air duct plenum DCD12	
Panel for DCD18/24	7ACVF0561		Air return grill DCD 18/24	
Front board for DCD18/24	7ACEL1701		Air duct plenum DCD 18/24	
Front board for DCD30	7ACEL1702		Air duct plenum DCD30/36/4	
Panel for DCD30	7ACVF0562		Air return grill DCD30	
Panel for DCD36/48	7ACVF0563		Air return grill DCD36/48	
RC08B	7ACEL1712			
RCW6	7ACEL1704		Wired single control	Mode, fan speed, real time, timer, temperature, weekly timer, swing and "I Feel".
Central controller	7ACEL1707		Central controller	Control up to 64 indoor units with individual setting failure codes indication, ON-OFF dry contact, last operation memory, Modbus.
BMS	7ACEL1708		BMS gateway	Maximum 1024 units could be connected (16 gateway).


FEATURES


  
FLEXY MATCH


  
DC INVERTER


  
R410A FLUID


  
ELECTRONIC EXPANSION VALVE


  
FRESH AIR


  
I FEEL


  
SLEEP MODE


  
HOT KEEP


  
DIGITAL DISPLAY


  
PROGRAMMABLE TIMER


  
SELF DIAGNOSTIC


  
LOW BATTERY INDICATION


  
AUTO RESTART (MEMORY)


  
REMOTE CONTROL LOCK


  
INTEGRATED WATER PUMP


  
ALARM OUTPUT


  
UNIT ON INPUT

  
OUTDOOR MULTI FAN SPEED

  
LOW AMBIENT COOLING

  
LOW AMBIENT HEATING

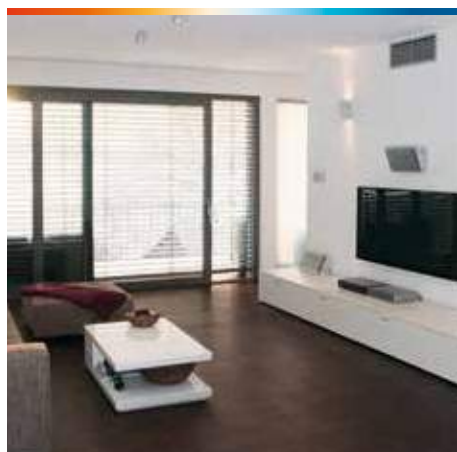
  
TWIN APPLICATION

  
BMS COMPATIBLE

## DCD TECHNICAL DATA

Indoor units		AWSI-DCD012-N11	AWSI-DCD018-N11	AWSI-DCD024-N11	AWSI-DCD030-N11	AWSI-DCD036-N11	AWSI-DCD036-N11	AWSI-DCD048-N11	AWSI-DCD060-N11
Outdoor units 1-230V - 50 Hz		AWAU-YLD012-H11	AWAU-YLD018-H11	AWAU-YLD024-H11	AWAU-YLD030-H11	AWAU-YLD036-H11	-	-	-
Outdoor units 3-400V - 50 Hz		-	-	-	-	-	AWAU-YLD036-H13	AWAU-YLD048-H13	AWAU-YLD060-H13
<b>COOLING</b>									
Rated capacity	kW	3.5 (1.1-4.0)	5.3 (1.5-6.4)	7 (2.0-7.9)	8.3 (2.5-9.5)	10 (3.2-11.6)	10.2 (3.2-11.6)	14.0 (4.5-15.2)	16.0 (5.6-17.6)
Pdesignc	kW	3.5	5.3	7	8.3	10	10.2	-	-
Rated power input	kW	1.09	1.65	2.18	2.76	3.32	3.39	4.36	4.97
SEER/Energy label		5.1/A	6.4/A++	6.6/A++	6.3/A++	5.3/A	5.1/A	3.21/A	3.22/A
Operating limits	°C	-15°/50° Dry bulb							
<b>HEATING</b>									
Rated capacity	kW	3.8 (1.1-4.5)	5.6 (1.5-6.8)	7.8 (2.0-8.8)	9.2 (2.6-10.3)	11.0 (3.2-12.5)	11.0 (3.2-12.5)	17 (5.2-18.2)	19.5 (6.0-21.2)
Pdesignh (average climate)	kW	3.4	5.1	7.8	8.5	10.2	10.2	-	-
Pdesignh (warmer climate)	kW	3.5	5.1	7.8	8.5	10.5	10.5	-	-
Rated power input	kW	1.05	1.47	2.14	2.48	3.05	3.05	4.57	5.39
SCOP/Energy label (average climate)		3.8/A	3.8/A	3.8/A	3.8/A	3.8/A	3.8/A	3.72/A	3.62/A
SCOP/Energy Label (warmer climate)		4.8/A++	4.8/A++	4.6/A++	4.6/A++	4.4/A++	4.4/A++	-	-
Operating limits	°C	-15°/24° Dry bulb							
Capacity @ -10°C	kW	3	4.3	6.6	6.9	9	8.5	13.6	15.6
Capacity @ -15°C	kW	2.7	3.6	5.8	5.9	7.9	7.8	11	12.6
<b>INDOOR UNIT</b>									
Sound pressure level to 1 m (LS/MS/HS)	dB(A)	36/39/41	39/43/45	39/43/46	40/44/48	36/39/42	36/39/42	36/39/42	51/54/57
Sound power level	dB(A)	58	58	63	65	62	62	62	67
Airflow (LS/MS/HS)	m³/h	410/440/560	800/950/1250	800/950/1250	1140/1580/1990	1180/1560/1740	1180/1560/1740	-/1640/2410	1940/2410/3010
External static pressure Range	Pa	25 (0-40)	25 (0-60)	25 (0-80)	37 (0-80)	37 (0-80)	37 (0-80)	50 (0-100)	50 (0-200)
Dehumidification	l/h	1.5	2.0	2.3	2.5	3.5	3.5	4.5	5.0
Outline dimensions (WxHxD)	mm	700x210x635	920x270x635	920x270x635	1140x270x775	1200x300x865	1200x300x865	1200x300x865	1400x440x858
Package dimensions (WxHxD)	mm	915x290x655	1135x350x655	1135x350x655	1355x350x795	1385x373x920	1385x373x920	1385x373x920	1590x470x895
Net weight/Gross weight	kg	18/22.8	28/31.5	28/31.5	35/42	44/52.5	44/52.5	44/53	75/83
Part number		7SP032158	7SP032159	7SP032142	7SP032143	7SP032144	7SP032144	7SP032145	7SP032146
<b>OUTDOOR UNIT</b>									
Sound pressure level to 1 m	dB(A)	52	55	57	58	60	60	61	61
Sound power level	dB(A)	62	65	69	70	70	70	70	70
Airflow	m³/h	2200	2500	3500	3800	5500	5500	7200	7500
Compressor type		Rotary DCI	Rotary DCI	Twin Rotary DCI	Twin Rotary DCI	Twin Rotary DCI	Twin Rotary DCI	Twin Rotary DCI	Twin Rotary DCI
Outline dimensions (WxHxD)	mm	760x590x285	845x700x320	900x860x315	900x860x315	990x965x345	990x965x345	938x1369x392	938x1369x392
Package dimensions (WxHxD)	mm	887x645x355	965x755x395	1043x915x395	1043x915x395	1120x1100x435	1120x1100x435	1095x1505x495	1095x1505x495
Net weight/Gross weight	kg	35.4/37.9	46/50	59/63	59/63	73/83	77/88	102.5/116	102.5/116
Part number 1-230V - 50 Hz		7SP062821	7SP062822	7SP062823	7SP062824	7SP062825	-	-	-
Part number 3-400V - 50 Hz		-	-	-	-	-	7SP062826	7SP062827	7SP062828
<b>POWER SUPPLY 1-230V - 50 HZ</b>									
Power supply side		Outdoor	Ind. & Out.	Ind. & Out.	Ind. & Out.	Ind. & Out.	-	-	-
Power cable section	mm²	3x1.5	3x1.0+3x2.5	3x1.0+3x2.5	3x1.0+3x2.5	3x1.0+3x4.0	-	-	-
Fuse rating am	A	16	10+16	10+20	10+30	10+30	-	-	-
Electrical connections	mm²	4x1.0	3x0.5	3x0.5	3x0.5	3x0.5	-	-	-
<b>POWER SUPPLY 3-400V - 50 HZ</b>									
Power supply side		-	-	-	-	-	Ind. & Out.	Ind. & Out.	Ind. & Out.
Power cable section	mm²	-	-	-	-	-	3x1.0+5x2.5	3x1.0+5x2.5	3x1.0+5x2.5
Fuse rating am	A	-	-	-	-	-	10+20	10+25	10+25
Electrical connections	mm²	-	-	-	-	-	3x0.5	3x0.5	3x0.5
<b>PIPE LINE</b>									
Suction pipe diameter	inches	3/8"	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"	3/4"
Liquid pipe diameter	inches	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Max length	m	20	30	50	50	65	65	65	65
Max height	m	10	20	25	25	30	30	30	30

## AIRWELL SOLUTIONS



IDU	Compatible with ODU	
Ducted	ODU single	ODU multi
DCD 12	YLD	Y CZ
DCD 18 to 36	YLD	
DCD 48 & 60	YLD	



## DBF

### ON/OFF DUCTED MEDIUM STATIC PRESSURE

- Ducted line available in capacities from 14 up to 15.5 kW.
- Cooling and heating operation mode.
- Available in 3PH.
- Wired control as a standard.







RCW8

RC08B  
(optional)

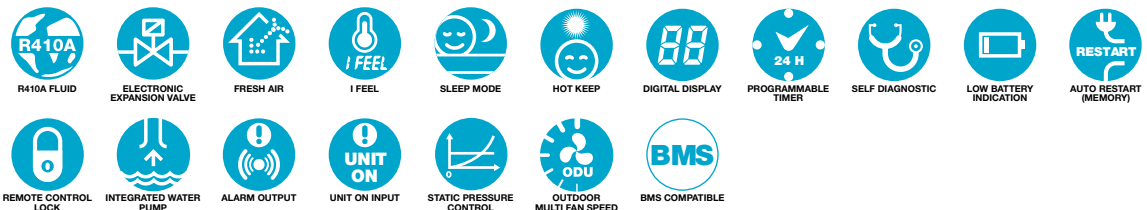
#### PRODUCT ADVANTAGES

- **Integrated water pump.**
- **Static pressure control.**
- Optional for parallel installation of same indoor unit.
- Water drain pump built in as a standard.
- Option for connect air return plenum from rear or bottom side.
- External static pressure up to 100 Pa.

#### ACCESSORIES/OPTIONS

Acc.	Reference	Photo	Description	Function
Panel for DBF48/60	7ACVF0563		Air return grill DBF42/60	
RC08B	7ACEL1712			
RCW6	7ACEL1704		Wired single control	Mode, fan speed, real time, timer, temperature, weekly timer, swing and "I Feel".
Central controller	7ACEL1707		Central controller	Control up to 64 indoor units with individual setting failure codes indication, ON-OFF dry contact, last operation memory, Modbus.
BMS	7ACEL1708		BMS gateway	Maximum 1024 units could be connected (16 gateway).

#### FEATURES





## DBF TECHNICAL DATA

Indoor units		AWSI-DBF048-N11	AWSI-DBF060-N11
Outdoor units 3-400V - 50 Hz		AWAU-YOF048-H13	AWAU-YOF060-H13
<b>COOLING</b>			
<b>Rated capacity</b>	<b>kW</b>	<b>14</b>	<b>15.5</b>
Rated power input	kW	4.96	5.93
EER/Energy label		2.82/C	2.61/D
Operating limits	°C	18°/43° Dry bulb	
<b>HEATING</b>			
<b>Rated capacity</b>	<b>kW</b>	<b>15.6</b>	<b>17</b>
Rated power input	kW	4.31	5.29
COP/Energy label		3.62/A	3.21/C
Operating limits	°C	-7°/24° Dry bulb	
<b>INDOOR UNIT</b>			
Sound pressure level to 1 m (LS/MS/HS)	dB(A)	40/45/49	40/45/49
Sound power level	dB(A)	59	59
Airflow (LS/MS/HS)	m³/h	1700/2100/2500	1700/2100/2500
Dehumidification	l/h	4.3	5.0
External static pressure range	Pa	70 (0~100)	70 (0~100)
Outline dimensions (WxHxD)	mm	1200x300x865	1200x300x865
Package dimensions (WxHxD)	mm	1385x373x920	1385x373x920
Net weight/Gross weight	kg	45/53	45/53
<b>Part number</b>		<b>7SP032152</b>	<b>7SP032153</b>
<b>OUTDOOR UNIT</b>			
Sound pressure level to 1 m	dB(A)	62	63
Sound power level	dB(A)	72	73
Airflow	m³/h	7200	7500
Compressor type		Scroll	Scroll
Outline dimensions (WxHxD)	mm	938x1369x392	938x1369x392
Package dimensions (WxHxD)	mm	1095x1505x495	1095x1505x495
Net weight/Gross weight	kg	110/124	111.1/125.4
<b>Part number 3~400V - 50 Hz</b>		<b>7SP062848</b>	<b>7SP062849</b>
<b>POWER SUPPLY 3~400V - 50 HZ</b>			
Power supply side		Indoor & Outdoor	Indoor & Outdoor
Power cable section	mm²	3x1.0 + 5x2.5	3x1.0 + 5x2.5
Fuse rating am	A	16 + 20	16 + 20
Electrical connections	mm²	3x0.5	3x0.5
<b>PIPE LINE</b>			
Suction pipe diameter	inches	3/4"	3/4"
Liquid pipe diameter	inches	3/8"	3/8"
Max length	m	50	50
Max height	m	25	25

## AIRWELL SOLUTIONS



IDU	Compatible with ODU
Ducted	ODU single
<p>DBF</p> 	<p>YOF</p> 





## DAF

ON/OFF DUCTED HIGH STATIC PRESSURE 68 TO 136

- Ducted line available in capacities from 20 up to 39.5 kW.
- Cooling & heating operation mode.
- "I Feel" function with precise room temperature control.

### PRODUCT ADVANTAGES

- **3Ph protector.**
- **All season kit integrated (fan speed controller).**
- Wired (IR receiver integrated) and wireless remote controls provided as standard.
- Self diagnostic (error indications) in remote the wired remote control for ease of maintenance.
- Space saving due to low unit height.
- Centralized controller up to 16 units including weekly timer (optional).
- Sizes 85 & 136 operating in -15°C with season kit integrated.




RC08A



RCW3

RCW4  
(optional)

### ACCESSORIES/OPTIONS

Acc.	Reference	Photo	Description	Additional accessory required	Function
RCW4	7ACEL1613		Wired group control.	RCW3	<ul style="list-style-type: none"> <li>- Control up to 16 indoor unit as a group or individually.</li> <li>- Option to set in each indoor unit ON/OFF, set temperature, timer (daily and weekly), mode, fan speed and swing.</li> <li>- Indicating failure code.</li> </ul>

### FEATURES



R410A FLUID



AUTO CLEAN/DRY



I FEEL



SLEEP MODE



HOT KEEP



TURBO MODE



SELF DIAGNOSTIC



LOW BATTERY INDICATION



AUTO RESTART (MEMORY)



REMOTE CONTROL LOCK



ADVANCED DEFROST

## DAF TECHNICAL DATA

Indoor units		AWSI-DAF068-N13	AWSI-DAF085-N13	AWSI-DAF102-N13	AWSI-DAF136-N13
Outdoor units		AWAU-YIF068-H13	AWAU-YIF085-H13	AWAU-YIF102-H13	AWAU-YIF136-H13
<b>COOLING</b>					
Rated capacity	kW	20.0	24.5	30.0	39.5
Rated power input	kW	8.4	9.8	11.0	15.8
EER/Energy label		2.38	2.5	2.73	2.5
Operating limits	°C	18°/43° Dry bulb	-15°/43° Dry bulb	18°/43° Dry bulb	-15°/43° Dry bulb
<b>HEATING</b>					
Rated capacity	kW	22.0	27.5	33.0	42.0
Rated power input	kW	7.4	9.00	9.0	14.0
COP/Energy label		2.97	3.05	3.67	3.0
Operating limits	°C	-7°/24° Dry bulb			
<b>INDOOR UNIT</b>					
Sound pressure level to 1 m	dB(A)	56	54	57	58
Sound power level	dB(A)	66	64	67	68
Airflow	m³/h	4000	4800	5500	7000
External static pressure	Pa	200 (100-300)	110 (30-250)	120 (50-250)	150 (50-300)
Dehumidification	l/h	5.4	7.5	9	12
Outline dimensions (WxHxD)	mm	1463x389x799	1500x500x1000	1500x500x1000	1700x650x1100
Package dimensions (WxHxD)	mm	1540x470x880	1840x673x1200	1840x673x1200	1890x835x1460
Net weight/Gross weight	kg	86/109	150/200	156/206	215/265
Part number		7SP032127	7SP032128	7SP032129	7SP032130
<b>OUTDOOR UNIT</b>					
Sound pressure level to 1 m	dB(A)	65	66	67	69
Sound power level	dB(A)	75	76	77	79
Airflow	m³/h	8000	8000	11000	13000
Compressor type		Scroll	Scroll	Scroll	Scroll
Outline dimensions (WxHxD)	mm	1150x1350x460	1150x1600x460	990x1772x880	1290x1772x880
Package dimensions (WxHxD)	mm	1317x1475x502	1317x1730x502	1162x1950x980	1370x1950x980
Net weight/Gross weight	kg	158/174	185/200	216/266	285/330
Part number 3~400V - 50 Hz		7SP061794	7SP061795	7SP061796	7SP061797
<b>POWER SUPPLY 3~400V - 50 HZ</b>					
Power supply side		Indoor & Outdoor	Indoor & Outdoor	Indoor & Outdoor	Indoor & Outdoor
Power cable section	mm²	5x1.0 - 5x4.0	5x1.0 - 5x6.0	5x1.0 - 5x10.0	5x1.5 - 5x10.0
Fuse rating am	A	10 - 25	10 - 32	10 - 40	10 - 40
Electrical connections	mm²	2x0.75	2x0.75	2x0.75	2x0.75
<b>PIPE LINE</b>					
Suction pipe diameter	inches	3/4"	1"	1-1/8"	1-1/8"
Liquid pipe diameter	inches	3/8"	3/8"	1/2"	5/8"
Max length	m	50	50	50	50
Max height	m	30	30	30	30

## AIRWELL SOLUTIONS



IDU	Compatible with ODU
Ducted	ODU single
<p>DAF</p>	<p>YIF</p>



## DK DN

### ON/OFF DUCTED HIGH STATIC PRESSURE

- Cooling and heating mode
- Cooling capacity: from 37.5 to 83 kW
- Heating capacity: from 36.5 to 83.8 kW
- Refrigerant: R407C



R407C FLUID

#### PRODUCT ADVANTAGES

- Weather resistant casing with external panels coated with powder-based epoxy paint colour RAL 7040.
- Indoor centrifugal fan units for duct network connection.
- High static pressure available.
- Multi-position architecture for horizontal or vertical mounting (acc. to models).
- Compact, top discharge outdoor fan units.
- Low noise axial fan.
- Scroll compressor with crankcase heater.
- Electrical, refrigeration and thermal protection devices.
- Phase controller.
- External HP and LP pressure taps.
- Frame and air filter supplied.

#### MAIN OPTIONS

- Low ambient temperature control to ensure cooling operation down to -10°C outdoor temperature (All-season).

#### MAIN ACCESSORIES

- Synthetic air filter.
- Electric heater.
- Programmable controller RCW2 to control up to 15 units with independent set points and programming.

#### OPERATING LIMIT FOR STANDARD UNIT

Cooling mode	
Minimum indoor air temperature	21°C DB/15°C WB
Maximum indoor air temperature	32°C DB/23°C WB
Minimum outdoor air temperature/with all-season kit	15°C DB/-10°C
Maximum outdoor air temperature	46°C DB
Heating mode	
Maximum indoor air temperature	27°C DB
Minimum outdoor air temperature	-10°C
Maximum outdoor air temperature	24°C DB/18°C WB

## DK DN TECHNICAL DATA

Indoor units			DK 405	DK 505	DK 605	DK 755	DK 905
Outdoor units	Cooling only		DN 405	DN 505	DN 605	DN 755	DN 905
	Reversible		DN 405RC	DN 505RC	DN 605RC	DN 755RC	DN 905RC
<b>PRODUCT CODES</b>							
Indoor units	Low ventilation	Code	7SP051144	7SP051145	7SP051146	7SP051122	7SP051123
	High ventilation	Code	7SP051148	7SP051149	7SP051150	-	-
Outdoor units - Cooling only	Standard	Code	7SP112016	7SP112017	7SP112018	7SP112137	7SP112146
	With all-season control	Code	7SP112085	7SP112086	7SP112087	Included	Included
Outdoor units - Reversible	Standard	Code	7SP112022	7SP112023	7SP112024	7SP112138	7SP112147
	With all-season control	Code	7SP112091	7SP112092	7SP112093	Included	Included
<b>CAPACITIES</b>							
Cooling	<b>Cooling capacity</b>	<b>kW</b>	<b>37.5</b>	<b>44.0</b>	<b>56.0</b>	<b>69.1</b>	<b>83.0</b>
	Rated power input	kW	14.4	16.7	22.5	26.9	33.0
	EER		2.6	2.6	2.5	2.6	2.5
Heating	<b>Heating capacity</b>	<b>kW</b>	<b>36.5</b>	<b>42.0</b>	<b>57.5</b>	<b>71.0</b>	<b>83.8</b>
	Rated power input	kW	11.9	14.4	22.9	26.4	32.4
	COP		2.9	2.5	2.7	2.6	2.5
Refrigerant circuit		nb	2	2	2	2	2
<b>INDOOR UNIT</b>							
Ventilation	Available static pressure in low ventilation	Pa	140	190	200	50	40
	Available static pressure	Pa	180	520	320	330	460
	Nominal airflow	m <sup>3</sup> /h	7560	9360	9720	12000	14300
	Airflow range (min/max)	m <sup>3</sup> /h	6000/8200	7500/10300	7780/11000	9600/13200	11440/15730
Sound levels	Sound power level	dB(A)	83	84	85	87	87
Dimensions	WxHxD	mm	1690x676x1078	2100x703x1078	2100x703x1078	2208x795x949	2208x945x949
	Mounting	H/V	H	H	H	H	H
Weight	Unit weight	kg	160	205	209	266	282
<b>OUTDOOR UNIT</b>							
Ventilation	Number of fan		2	2	2	2	2
	Nominal airflow	m <sup>3</sup> /h	2x9000	2x9000	2x9000	2x16000	2x16000
Sound levels	Sound power level	dB(A)	87	86	86	87	87
Dimensions	WxHxD	mm	1708x972x1123	1708x1171x1123	1708x1171x1123	2213x1309x1345	2213x1459x1345
Weight	Unit weight	kg	317	378	405	559	592
Power supply	Power supply		400V/3P/50 Hz				
	Power supply side		Outdoor				
Pipe line	Suction pipe diameter < 20m	inches	7/8"	7/8"	1-1/8"	1-1/8"	1-3/8"
	Suction pipe diameter > 20m	inches	7/8"	7/8"	1-1/8"	1-3/8"	1-3/8"
	Liquid pipe diameter < 20m	inches	1/2"	1/2"	1/2"	5/8"	5/8"
	Liquid pipe diameter > 20m	inches	5/8"	5/8"	5/8"	5/8"	5/8"
	Max length	m	30	30	30	30	30
	Max height	m	15	15	15	15	15
<b>ACCESSORIES</b>							
Electric heater		kW	21	30	30	30	30
		Code	7ACEL1177	7ACEL1178	7ACEL1178	7ACEL1340	7ACEL1340
Remote control RCW2		Code	7ACEL1212				
Air filter		Code	7ACVF0125	7ACVF0126	7ACVF0126	-	-

## AIRWELL SOLUTIONS



[ MODEL NAME ]

Page

INVERTER CASSETTE MONOSPLIT  
MULTISPLIT → ONLY SIZES 12 & 18



**CBD**



56

INVERTER CASSETTE MONOSPLIT

**CAD**



60

ON/OFF CASSETTE

**CBF**



62

**Cassette Range**

12 3.5 kW	18 5 kW	24 7 kW	30 8 kW	36 10 kW	48 12.5 kW	60 16 kW
--------------	------------	------------	------------	-------------	---------------	-------------

  
60 x 60


  
60 x 60

  
90 x 90

  
90 x 90

  
90 x 90

  
90 x 90

  
95 x 134

  
90 x 90

  
90 x 90

• Unique  
• solutions

CBD



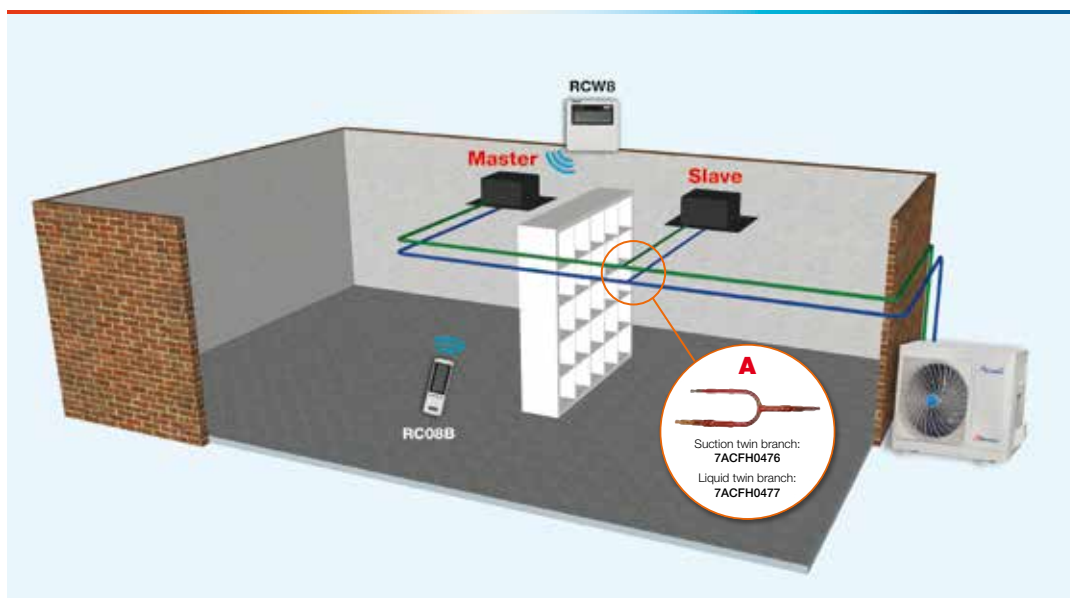
# Twin application



The twin application is used mainly in big open space once the space area is controlling by one controller only for 2 units. Airwell twin design allows to connect two similar indoor units to one common outdoor unit. The two indoor units working in the same function and set up once one indoor unit use as a master.

### The most economical solution for single-area spaces:

- Simple installation by having one refrigerant and control system.
- Space saving by using one outdoor unit instead of two.
- Low cost installation.
- Simple control, one control station for big space.
- Option to control by wireless or wired controller.
- Ducted or cassette application.



Capacity combinations	Indoor units	Outdoor units	Tubing & charge instructions	YLD036	YLD048	YLD060
Twin system	CBD018 + CBD018	YLD036	Pipe diameter (liquid-gas) (inches)	3/8"-5/8"		
	CBD024 + CBD024	YLD048	Max length (m)	30	50	50
	CBD030 + CBD030	YLD060	Max. length difference (m)	10		

## ACCESSORIES/OPTIONS

Acc.	Reference	Photo	Description	Function
Branch gas	7ACFH0476		Twin branch suction	Tube branch to collect all suction lines. <b>Mandatory for Twin application.</b>
Branch liquid	7ACFH0477		Twin branch liquid	Tube branch to collect all liquid lines. <b>Mandatory for Twin application.</b>





600x600 and 900x900



## CASSETTE MONOSPLIT MULTISPLIT → Only sizes 12 & 18

- Cassette line available in capacities from 3.5 to 12.5 kW.
- Cooling & heating operation mode.
- DC Inverter and sine wave compressor drive technology.
- "I Feel" function with precise room temperature control.
- Available in 3PH from 10 kW.

### [ PRODUCT ADVANTAGES ]

- Operating in ambient temperature, up to -15°C in heating and -15°C in cooling.
- Fresh air (optional).
- Integrated water pump.
- Centralized controller up to 64 units including weekly timer (optional).
- Sizes 12 & 18 can also match to multi ODU (see dedicated part number 76).
- Twin application.



RC08B



RCW8 (optional)



RCW6 (optional)

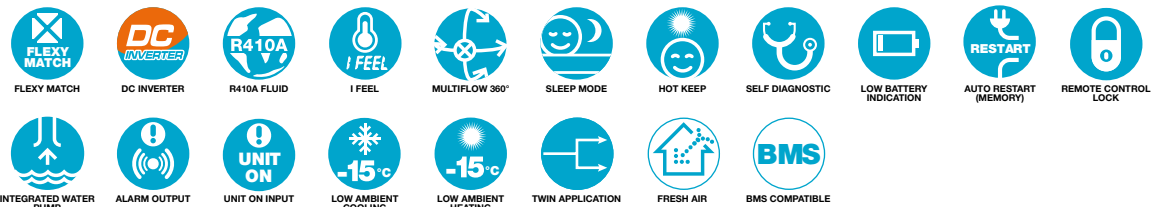
#### 360 DEGREE FLOW WITH ROUND CORNERS



### ACCESSORIES/OPTIONS

Acc.	Reference	Photo	Description	Function
RCW6	7ACEL1704		Wired single control for CBD 24-48	Mode, fan speed, real time, timer, temperature, weekly timer, swing and "I Feel".
RCW8	7ACEL1706		Wired single control	Mode, fan speed, timer ON/OFF, temperature, swing and "I Feel".
Central controller	7ACEL1707		Central controller	Control up to 64 indoor units with individual setting failure codes indication, ON-OFF dry contact, last operation memory, Modbus.
BMS	7ACEL1708		BMS gateway	Maximum 1024 units could be connected (16 gateway).

### FEATURES









## CBD TECHNICAL DATA

Indoor units		AWSI-CBD012-N11	AWSI-CBD018-N11	AWSI-CBD024-N11	AWSI-CBD030-N11	AWSI-CBD036-N11	AWSI-CBD036-N11	AWSI-CBD048-N11
Outdoor units 1-230V - 50 Hz		AWAU-YLD012-H11	AWAU-YLD018-H11	AWAU-YLD024-H11	AWAU-YLD030-H11	AWAU-YLD036-H11	-	-
Outdoor units 3-400V - 50 Hz		-	-	-	-	-	AWAU-YLD036-H13	AWAU-YLD048-H13
<b>COOLING</b>								
Rated capacity	kW	3.5 (1.0-4.0)	5.0 (1.6-6.2)	7.2 (2.0-7.8)	8.5 (2.4-9.6)	10.0 (3.0-11.8)	10.0 (3.0-11.8)	12.5 (4.2-14.0)
Pdesignc	kW	3.5	5.0	7.2	8.5	10.0	10.0	-
Rated power input	kW	1.09	1.65	2.24	2.82	3.32	3.32	3.89
SEER/Energy label		5.6/A+	5.6/A+	6.1/A++	6.4/A++	5.4/A	5.4/A	3.21/A
Operating limits	°C	-15°/50° Dry bulb						
<b>HEATING</b>								
Rated capacity	kW	3.5 (1.0-4.1)	5.3 (1.6-6.4)	8.0 (2.2-8.6)	8.6 (2.5-9.8)	10.5 (3.2-12.0)	10.5 (3.2-12.0)	13.0 (4.2-14.8)
Pdesignh (average climate)	kW	3.5	5.3	7.8	8.1	10.0	10.0	-
Pdesignh (warmer climate)	kW	3.5	5.3	7.8	8.1	10.5	10.5	-
Rated power input	kW	0.97	1.47	2.15	2.34	2.91	2.91	3.60
SCOP/Energy label (average climate)		3.8/A	3.8/A	3.9/A	3.9/A	3.8/A	3.8/A	3.61/A
SCOP/Energy Label (warmer climate)		4.8/A++	4.8/A++	4.6/A++	4.6/A++	4.4/A++	4.4/A++	-
Operating limits	°C	-15°/24° Dry bulb						
Capacity @ -10°C	kW	3.1	4.4	6.6	6.7	8.7	8.7	10.4
Capacity @ -15°C	kW	2.7	3.7	5.7	5.8	7.5	7.2	9.1
<b>INDOOR UNIT</b>								
Sound pressure level to 1 m (LS/MS/HS)	dB(A)	34/38/42	33/40/48	42/45/47	44/47/50	46/49/51	46/49/51	47/50/54
Sound power level	dB(A)	55	60	62	62	63	63	64
Airflow (LS/MS/HS)	m³/h	450/530/650	500/650/800	1300/1500/1700	1400/1600/1850	1400/1600/1850	1400/1600/1850	1600/1800/2200
Dehumidification	l/h	1.5	2	2.5	3	3.8	3.8	4.5
Outline dimensions (WxHxD)	mm	570x260x570	570x260x570	840x245x840	840x245x840	840x245x840	840x245x840	840x287x840
Package dimensions (WxHxD)	mm	655x655x290	655x655x290	900x265x900	900x265x900	900x265x900	900x265x900	900x292x900
Net weight/Gross weight	kg	16/19	16.5/19	24/28	26.5/30.5	26.5/30.5	26.5/30.5	29/33
Part number		7SP042243	7SP042244	7SP042224	7SP042225	7SP042226	7SP042226	7SP042227
<b>FRAME</b>								
Outline dimensions (WxHxD)	mm	650x50x650	650x50x650	950x55x950	950x55x950	950x55x950	950x55x950	950x55x950
Package dimensions (WxHxD)	mm	715x123x715	715x123x715	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035	1035x90x1035
Net weight/Gross weight	kg	2.5/4.5	2.5/4.5	5/8	5/8	5/8	5/8	5/8
Part number frame		7ACVF0566	7ACVF0566	7ACVF0564	7ACVF0564	7ACVF0564	7ACVF0564	7ACVF0564
<b>OUTDOOR UNIT</b>								
Sound pressure level to 1 m	dB(A)	52	55	57	58	60	60	61
Sound power level	dB(A)	62	65	69	70	70	70	70
Airflow	m³/h	2200	2500	3500	3800	5500	5500	7200
Compressor type		Rotary DCI	Rotary DCI	Twin Rotary DCI	Twin Rotary DCI	Twin Rotary DCI	Twin Rotary DCI	Twin Rotary DCI
Outline dimensions (WxHxD)	mm	760x590x285	845x700x320	900x860x315	900x860x315	990x965x345	990x965x345	938x1369x392
Package dimensions (WxHxD)	mm	887x645x355	965x755x395	1043x915x395	1043x915x395	1120x1100x435	1120x1100x435	1095x1505x495
Net weight/Gross weight	kg	35.4/37.9	46/50	59/63	59/63	73/83	77/88	102.5/116
Part number 1-230V - 50 Hz		7SP062821	7SP062822	7SP062823	7SP062824	7SP062825	-	-
Part number 3-400V - 50 Hz		-	-	-	-	-	7SP062826	7SP062827
<b>POWER SUPPLY 1-230V - 50 HZ</b>								
Power supply side		Outdoor	Indoor & Outdoor	Indoor & Outdoor	Indoor & Outdoor	Indoor & Outdoor	-	-
Power cable section	mm²	3x1.5	3x1.0+3x2.5	3x1.0+3x2.5	3x1.0+3x2.5	3x1.0+3x4.0	-	-
Fuse rating am	A	16	10+16	10+20	10+30	10+30	-	-
Electrical connections	mm²	4x1.0	3x0.5	3x0.5	3x0.5	3x0.5	-	-
<b>POWER SUPPLY 3-400V - 50 HZ</b>								
Power supply side		-	-	-	-	-	Indoor & Outdoor	Indoor & Outdoor
Power cable section	mm²	-	-	-	-	-	3x1.0+5x2.5	3x1.0+5x2.5
Fuse rating am	A	-	-	-	-	-	10+20	10+25
Electrical connections	mm²	-	-	-	-	-	3x0.5	3x0.5
<b>PIPE LINE</b>								
Suction pipe diameter	inches	3/8"	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"
Liquid pipe diameter	inches	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"
Max length	m	20	30	50	50	65	65	65
Max height	m	10	20	25	25	30	30	30

## AIRWELL SOLUTIONS



IDU	Compatible with ODU	
Cassette	ODU single	ODU multi
CBD 12 & 18 	YLD 	
CBD 12 & 18X 		YCZ 
CBD 24 to 48 	YLD 	



# CAD

## CASSETTE 950x1340 MONOSPLIT

- Cassette line available in capacity of 14 kW.
- Cooling & heating operation mode.
- DC Inverter and sine wave compressor drive technology.

### PRODUCT ADVANTAGES

- Operating in ambient temperature, up to -15°C in heating and -10°C in cooling.
- Centralized controller up to 128 groups including weekly timer (optional).
- Integrated water pump.



RCV01



RWV01 (optional)






RWV02 (optional)




RWV04 (optional)


### ACCESSORIES/OPTIONS

Acc.	Reference	Photo	Description	Function
RWV01	7ACELH002		Wired standard controller	Unit operating and group control (max. 16 indoor units).
RWV02	7ACELH003		Central controller "Touch screen"	Option to control up to 128 groups (16 units per group) a total of 2 048 units, including weekly timer.
RWV04	7ACELH010		Wired control	Option to control up to 16 units including weekly timer.


### FEATURES




DC INVERTER




LOW VOLTAGE STARTUP




LOW TEMPERATURE STARTUP




R410A FLUID




ELECTRONIC EXPANSION VALVE




AUTO CLEAN/DRY




MOTORIZED 4D AIRFLOW




SLEEP MODE




HOT KEEP




TURBO MODE




RESTART (MEMORY)




REMOTE CONTROL LOCK




ADVANCED DEFROST



INTEGRATED WATER PUMP



LOW AMBIENT COOLING



LOW AMBIENT HEATING

## CAD TECHNICAL DATA

Indoor unit		AWSI-CAD060-N11
Outdoor unit		AWAU-YUDA060-H13
<b>COOLING</b>		
Rated capacity	kW	14.0 (4.0-15.5)
Rated power input	kW	4.36 (2.0-6.5)
Operating limits	°C	-10°/46° Dry bulb
<b>HEATING</b>		
Rated capacity	kW	15.0 (4.0-17.5)
Rated power input	kW	4.4 (2.0-6.5)
SCOP/Energy label		3.41/B
Operating limits	°C	-15°/24° Dry bulb
Capacity @ -10°C	kW	12.0
Capacity @ -15°C	kW	11.0
<b>INDOOR UNIT</b>		
Sound pressure level to 1 m (LS/MS/HS)	dB(A)	42/45/50
Sound power level	dB(A)	63
Airflow (LS/MS/HS)	m³/h	1500/1750/1980
Dehumidification	l/h	5
Outline dimensions (WxHxD)	mm	840x280x1230
Package dimensions (WxHxD)	mm	920x370x1325
Net weight/Gross weight	kg	46/53
Part number		7SP042219
<b>FRAME</b>		
Outline dimensions (WxHxD)	mm	950x80x1340
Package dimensions (WxHxD)	mm	995x115x1400
Net weight/Gross weight	kg	8.4/12
Part number frame		7ACVF0549
<b>OUTDOOR UNIT</b>		
Sound pressure level to 1 m	dB(A)	60
Sound power level	dB(A)	73
Airflow	m³/h	6500
Compressor type		Rotary DC Inverter
Outline dimensions (WxHxD)	mm	948x1250x340
Package dimensions (WxHxD)	mm	1095x1400x410
Net weight/Gross weight	kg	96/106
Part number 3~400V - 50 Hz		7SP062793
<b>POWER SUPPLY 3~400V - 50 HZ</b>		
Power supply side		Outdoor
Power cable section	mm²	5x4.0
Fuse rating am	A	20
Electrical connections	mm²	4x1.5
<b>PIPE LINE</b>		
Suction pipe diameter	inches	3/4"
Liquid pipe diameter	inches	3/8"
Max length	m	50
Max height	m	30

## AIRWELL SOLUTIONS



IDU	Compatible with ODU
Cassette	ODU single
CAD	YUDA





# CBF

## ON/OFF CASSETTE 900X900

- Cassette line available in capacities from 12.8 up to 14 kW.
- Cooling and heating operation mode.
- "I Feel" function with precise room temperature control.

### PRODUCT ADVANTAGES

- Compact and slim design from 245 mm (model 48).
- Integrated electronic control box.
- Option for fresh air intake.



RC08B

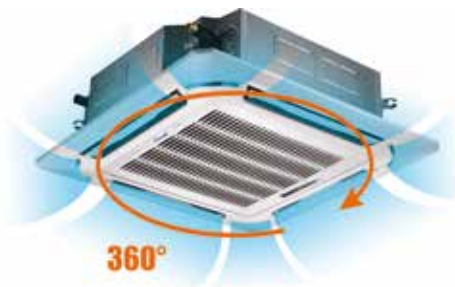


RCW8 (optional)



Central controller (optional)

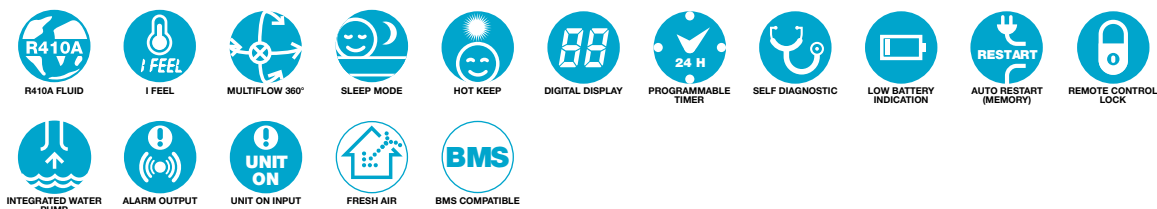
#### 360 DEGREE FLOW WITH ROUND CORNERS



## ACCESSORIES/OPTIONS

Acc.	Reference	Photo	Description	Function
Cassette panel 900x900 for CBF	7ACVF0564		Cassette panel 900x900 for CBF	
RCW8	7ACEL1706		Wired single control	Mode, fan speed, timer ON/OFF, temperature, swing and "I Feel".
Central controller	7ACEL1707		Central controller	Control up to 64 indoor units with individual setting failure codes indication, ON-OFF dry contact, last operation memory, Modbus.
BMS	7ACEL1708		BMS gateway	Maximum 1024 units could be connected (16 gateway).

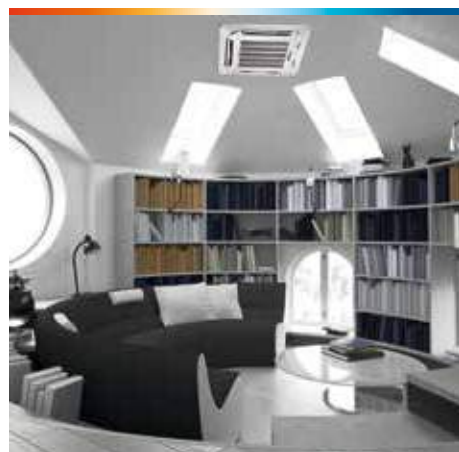
## FEATURES



## CBF TECHNICAL DATA

Indoor units		AWSI-CBF048-N11	AWSI-CBF060-N11
Outdoor units 3~400V - 50 Hz		AWAU-YOF048-H13	AWAU-YOF060-H13
<b>COOLING</b>			
Rated capacity	kW	<b>12.8</b>	<b>14</b>
Rated power input	kW	4.77	5.57
EER/Energy label		2.68/D	2.51/E
Operating limits	°C	18°/43° Dry bulb	
<b>HEATING</b>			
Rated capacity	kW	<b>13.6</b>	<b>16</b>
Rated power input	kW	4.65	6.1
COP/Energy label		2.92/D	2.62/E
Operating limits	°C	-7°/24° Dry bulb	
<b>INDOOR UNIT</b>			
Sound pressure level to 1 m (LS/MS/HS)	dB(A)	46/49/54	47/50/55
Sound power level	dB(A)	64	65
Airflow (LS/MS/HS)	m³/h	1400/1600/1900	1500/1700/2000
Dehumidification	l/h	4.3	5.0
Outline dimensions (WxHxD)	mm	840x245x840	840x287x840
Package dimensions (WxHxD)	mm	900x265x900	900x292x900
Net weight/Gross weight	kg	26.5/30.2	28.3/32.5
Part number		<b>7SP042233</b>	<b>7SP042238</b>
<b>FRAME (INCLUDED IN THE INDOOR UNIT)</b>			
Outline dimensions (WxHxD)	mm	950x55x950	950x55x950
Package dimensions (WxHxD)	mm	1035x90x1035	1035x90x1035
Net weight/Gross weight	kg	5/8	5/8
Part number frame 950x950		<b>7ACVF0564</b>	<b>7ACVF0564</b>
<b>OUTDOOR UNIT</b>			
Sound pressure level to 1 m	dB(A)	62	63
Sound power level	dB(A)	72	73
Airflow	m³/h	7200	7500
Compressor type		Scroll	Scroll
Outline dimensions (WxHxD)	mm	938x1369x392	938x1369x392
Package dimensions (WxHxD)	mm	1095x1505x495	1095x1505x495
Net weight/Gross weight	kg	110/124	111.1/125.4
Part number 3~400V - 50 Hz		<b>7SP062848</b>	<b>7SP062849</b>
<b>POWER SUPPLY 3~400V - 50 HZ</b>			
Power supply side		Indoor & Outdoor	Indoor & Outdoor
Power cable section	mm²	3x1.0 + 5x2.5	3x1.0 + 5x2.5
Fuse rating am	A	16 + 20	16 + 20
Electrical connections	mm²	3x0.5	3x0.5
<b>PIPE LINE</b>			
Suction pipe diameter	inches	3/4"	3/4"
Liquid pipe diameter	inches	3/8"	3/8"
Max length	m	50	50
Max height	m	25	25

## AIRWELL SOLUTIONS



IDU	Compatible with ODU
Cassette	ODU single
CBF	YOF



# Floor Ceiling Range

[ MODEL NAME ]

Page

CONSOLE  
MONOSPLIT & MULTISPLIT



**XAD**



66

FLOOR CEILING MONOSPLIT

**FBD**



68

FLOOR CEILING MONOSPLIT  
LOW TEMPERATURE  
FOR WINE CELLAR

**NEW**

**FWDB**



70

ON/OFF FLOOR CEILING

**FCF**



72

12 3.5 kW	18 5 kW	24 7 kW	30 8 kW	36 10 kW	48 12.5 kW	60 16 kW
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# XAD

## CONSOLE MONO & MULTISPLIT

- Console line available in capacities 3.5 and 4.7 kW.
- Cooling & heating operation mode.
- "I Feel" function with precise room temperature control.



RC08B



RCW8  
(optional)

### PRODUCT ADVANTAGES

- Wide operating temperature -15°C in heating and cooling.
- Airflow direction control, up or down for comfort selection.
- Four air outlet direction.
- Easy for maintenance.



### ACCESSORIES/OPTIONS

Acc.	Reference	Photo	Description	Additional accessory required	Function
RCW8	7ACEL1706		Wired single control		Mode, fan speed, timer ON/OFF, temperature, swing and "I Feel".
Central controller	7ACEL1707		Central controller (only for size 18)	Module board - 7ACEL1720	Control up to 64 indoor units with individual setting failure codes indication, ON-OFF dry contact, last operation memory, Modbus.
BMS	7ACEL1708		BMS gateway		Maximum 1024 units could be connected (16 gateway). (For size 18 only).

### FEATURES

FLEXY MATCH

DC INVERTER

R410A FLUID

ELECTRONIC EXPANSION VALVE

I FEEL

SLEEP MODE

HOT KEEP

PROGRAMMABLE TIMER

LOW BATTERY INDICATION

AUTO RESTART (MEMORY)

REMOTE CONTROL LOCK

DRY CONTACT ON/OFF

OUTDOOR MULTI FAN SPEED

LOW AMBIENT COOLING

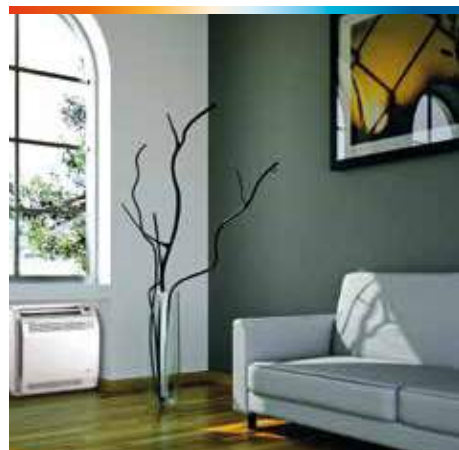
LOW AMBIENT HEATING

BMS COMPATIBLE (XAD 18)

## XAD TECHNICAL DATA

Indoor units		AWSI-XAD012-N11	AWSI-XAD018-N11
Outdoor units		AWAU-YLD012-H11	AWAU-YLD018-H11
<b>COOLING</b>			
Rated capacity	kW	3.5 (1.1~3.8)	4.7 (1.4~5.4)
Pdesignc	kW	3.5	4.7
Rated power input	kW	1.09	1.55
SEER/Energy label		6.1/A++	5.6/A+
Operating limits	°C	-15°/50° Dry bulb	
<b>HEATING</b>			
Rated capacity	kW	3.6 (1.1~4.0)	5 (1.4~5.8)
Pdesignh (average climate)	kW	3.5	5.0
Pdesignh (warmer climate)	kW	3.5	5.0
Rated power input	kW	0.99	1.38
SCOP/Energy label (average climate)		3.8/A	3.8/A
SCOP/Energy label (warmer climate)		4.8/A++	4.6/A++
Operating limits	°C	-15°/24° Dry bulb	
Capacity @ -10°C	kW	3.1	4.1
Capacity @ -15°C	kW	2.6	3.5
<b>INDOOR UNIT</b>			
Sound pressure level to 1 m (LS/MS/HS)	dB(A)	36/40/44	39/42/45
Sound power level	dB(A)	58	60
Airflow (LS/MS/HS/SS)	m³/h	440/560/640/700	560/640/700/740
Dehumidification	l/h	1.5	2.0
Outline dimensions (WxHxD)	mm	700x600x210	700x600x210
Package dimensions (WxHxD)	mm	810x710x305	810x710x305
Net weight/Gross weight	kg	15/20	15/20
Part number		7SP071403	7SP071404
<b>OUTDOOR UNIT</b>			
Sound pressure level to 1 m	dB(A)	52	55
Sound power level	dB(A)	62	65
Airflow	m³/h	2200	2500
Compressor type		Rotary DC Inverter	Rotary DC Inverter
Outline dimensions (WxHxD)	mm	760x590x285	845x700x320
Package dimensions (WxHxD)	mm	887x645x355	965x755x395
Net weight/Gross weight	kg	35.4/37.9	46/50
Part number		7SP062821	7SP062822
<b>POWER SUPPLY 1~230V - 50 HZ</b>			
Power supply side		Outdoor	Indoor & Outdoor
Power cable section	mm²	3x1.5	3x1.0+3x2.5
Fuse rating am	A	16	10+16
Electrical connections	mm²	4x1.0	3x0.5
<b>PIPE LINE</b>			
Suction pipe diameter	inches	3/8"	1/2"
Liquid pipe diameter	inches	1/4"	1/4"
Max length	m	20	30
Max height	m	10	20

## AIRWELL SOLUTIONS



IDU	Compatible with ODU	
	Console	ODU single
XAD	YLD	YZC
XAD 18X		YZC



# FBD

## FLOOR CEILING MONOSPLIT



- Floor ceiling line available in capacities from 5.3 to 15.6 kW.
- Cooling & heating operation mode.
- DC Inverter and sine wave compressor drive technology.
- "I Feel" function with precise room temperature control.
- Available in 3PH from 10 kW.

### PRODUCT ADVANTAGES

- Operating in ambient temperature, up to -15°C in heating and -15°C in cooling.
- Centralized controller up to 64 units including weekly timer (optional).
- Fresh air intake option.
- 4 dimensional airflow for maximum comfort.



RC08B



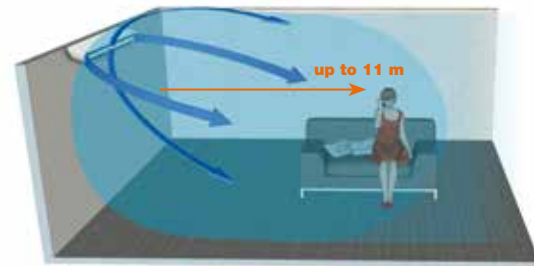
RCW8 (optional)



RCW6 (optional)



### 4 DIMENSIONAL AIRFLOWS FOR MAXIMUM COMFORT



## ACCESSORIES/OPTIONS

Acc.	Reference	Photo	Description	Function
RCW6	7ACEL1704		Wired single control	Mode, fan speed (except for size 60), real time, timer, temperature, weekly timer, swing and "I Feel".
RCW8	7ACEL1706		Wired single control for FBD 18-48	Mode, fan speed, timer ON/OFF, temperature, swing and "I Feel".
Central controller	7ACEL1707		Central controller	Control up to 64 indoor units with individual setting failure codes indication, ON-OFF dry contact, last operation memory, Modbus.
BMS	7ACEL1708		BMS gateway	Maximum 1024 units could be connected (16 gateway).

## FEATURES

DC INVERTER

R410A FLUID

ELECTRONIC EXPANSION VALVE

FRESH AIR

I FEEL

WIDE ANGLE LOUVER

SLEEP MODE

HOT KEEP

DIGITAL DISPLAY

PROGRAMMABLE TIMER

SELF DIAGNOSTIC

LOW BATTERY INDICATION

AUTO RESTART (MEMORY)

REMOTE CONTROL LOCK

LEFT/RIGHT DRAIN CONNECTION

ALARM OUTPUT

UNIT ON INPUT

DRY CONTACT ON/OFF

OUTDOOR MULTI FAN SPEED

LOW AMBIENT COOLING

LOW AMBIENT HEATING

NANO PHOTOCATALYTIC FILTER

ELECTROSTATIC FILTER - ANTIBACTERIA

INTEGRATED WATER PUMP

BMS COMPATIBLE

## FBD TECHNICAL DATA

Indoor units		AWSI-FBD018-N11	AWSI-FBD024-N11	AWSI-FBD030-N11	AWSI-FBD036-N11	AWSI-FBD036-N11	AWSI-FBD048-N11	AWSI-FBD060-N11
Outdoor units 1-230V - 50 Hz		AWAU-YLD018-H11	AWAU-YLD024-H11	AWAU-YLD030-H11	AWAU-YLD036-H11	-	-	-
Outdoor units 3-400V - 50 Hz		-	-	-	-	AWAU-YLD036-H13	AWAU-YLD048-H13	AWAU-YLD060-H13
<b>COOLING</b>								
Rated capacity	kW	5.3 (1.5-6.4)	7.2 (2.0-7.8)	8.5 (2.4-9.6)	10.5 (3.2-11.8)	10.2 (3.2-11.8)	14.0 (4.5-15.2)	15.6 (5.0-17.5)
Pdesignnc	kW	5.3	7.2	8.5	10.5	10.2	-	-
Rated power input	kW	1.63	2.24	2.82	3.48	3.39	4.36	4.86
SEER/Energy label		6.1/A++	6.4/A++	6.4/A++	6.0/A+	5.7/A+	3.21/A	3.21/A
Operating limits	°C	-15°/50° Dry bulb						
<b>HEATING</b>								
Rated capacity	kW	5.9 (1.6-7.0)	7.8 (2.0-8.6)	9 (2.4-10.0)	11 (3.2-12.5)	11 (3.2-12.5)	14.6 (4.8-15.8)	17 (5.5-18.6)
Pdesignnh (average climate)	kW	5.3	7.8	8.5	10.2	10.0	-	-
Pdesignnh (warmer climate)	kW	5.3	7.8	8.5	10.5	10.5	-	-
Rated power input	kW	1.49	2.10	2.42	3.05	3.05	4.04	4.70
SCOP/Energy label (average climate)		3.8/A	3.9/A	3.9/A	3.8/A	3.8/A	3.61/A	3.61/A
SCOP/Energy label (warmer climate)		4.8/A++	4.6/A++	4.6/A++	4.4/A++	4.4/A++	-	-
Operating limits	°C	-15°/24° Dry bulb						
Capacity @ -10°C	kW	4.3	7	7	8.3	8.5	11.6	12.7
Capacity @ -15°C	kW	3.7	6	6	7.2	7.3	10	11
<b>INDOOR UNIT</b>								
Sound pressure level to 1 m (LS/MS/HS)	dB(A)	38/41/44	46/50/52	46/50/53	43/49/52	43/49/52	51/54/57	51/54/57
Sound power level	dB(A)	60	63	64	65	65	68	69
Airflow (LS/MS/HS)	m³/h	600/750/900	1100/1250/1400	1450/1650/1850	1500/1850/2200	1500/1850/2200	1700/1900/2300	1700/1900/2300
Dehumidification	l/h	2	2.3	2.5	3.5	3.5	4.5	5.0
Outline dimensions (WxHxD)	mm	1068x675x235	1068x675x235	1285x675x235	1650x675x235	1650x675x235	1650x675x235	1650x675x235
Package dimensions (WxHxD)	mm	1145x755x313	1145x755x313	1360x755x313	1725x755x313	1725x755x313	1725x755x313	1725x755x313
Net weight/Gross weight	kg	25/31.5	25/30	30/35	40/46	40/46	40/46	43/50
Part number		7SP012225	7SP022998	7SP022999	7SP023000	7SP023000	7SP023001	7SP023002
<b>OUTDOOR UNIT</b>								
Sound pressure level to 1 m	dB(A)	55	57	58	60	60	61	61
Sound power level	dB(A)	65	69	70	70	70	70	70
Airflow	m³/h	2500	3500	3800	5500	5500	7200	7500
Compressor type		Rotary DCI	Twin Rotary DCI	Twin Rotary DCI	Twin Rotary DCI	Twin Rotary DCI	Twin Rotary DCI	Twin Rotary DCI
Outline dimensions (WxHxD)	mm	845x700x320	900x860x315	900x860x315	990x965x345	990x965x345	938x1369x392	938x1369x392
Package dimensions (WxHxD)	mm	965x755x395	1043x915x395	1043x915x395	1120x1100x435	1120x1100x435	1095x1505x495	1095x1505x495
Net weight/Gross weight	kg	46/50	59/63	59/63	73/83	77/88	102.5/116	102.5/116
Part number 1-230V - 50 Hz		7SP062822	7SP062823	7SP062824	7SP062825	-	-	-
Part number 3-400V - 50 Hz		-	-	-	-	7SP062826	7SP062827	7SP062828
<b>POWER SUPPLY 1-230V - 50 HZ</b>								
Power supply side		Indoor & Outdoor	Indoor & Outdoor	Indoor & Outdoor	Indoor & Outdoor	-	-	-
Power cable section	mm²	3x1.0+3x2.5	3x1.0+3x2.5	3x1.0+3x2.5	3x1.0+3x4.0	-	-	-
Fuse rating am	A	10+16	10+20	10+30	10+30	-	-	-
Electrical connections	mm²	3x0.5	3x0.5	3x0.5	3x0.5	-	-	-
<b>POWER SUPPLY 3-400V - 50 HZ</b>								
Power supply side		-	-	-	-	Indoor & Outdoor	Indoor & Outdoor	Indoor & Outdoor
Power cable section	mm²	-	-	-	-	3x1.0+5x2.5	3x1.0+5x2.5	3x1.0+5x2.5
Fuse rating am	A	-	-	-	-	10+20	10+25	10+25
Electrical connections	mm²	-	-	-	-	3x0.5	3x0.5	3x0.5
<b>PIPE LINE</b>								
Suction pipe diameter	inches	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"	3/4"
Liquid pipe diameter	inches	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Max length	m	30	50	50	65	65	65	65
Max height	m	20	25	25	30	30	30	30

## AIRWELL SOLUTIONS



IDU	Compatible with ODU
Floor ceiling	ODU single
FBD	YLD





**NEW**

**A<sup>++</sup>**

# FWDB

## FLOOR CEILING MONOSPLIT LOW TEMPERATURE FOR WINE CELLAR

- Floor ceiling line available in capacities of 5.3 and 7.2 kW.
- Cooling & heating operation mode.
- DC Inverter and sine wave compressor drive technology.
- "I Feel" function with precise room temperature control.



RCW6

### PRODUCT ADVANTAGES

- Cooling operation up to **-10°C** outside and go down up to **12°C** inside.
- Fuzzy logic to control compressor by outdoor fan and electronic expansion valve in extreme low operation temperature.
- Possibility to reverse dry contact: normally open / normally closed.



### ACCESSORIES/OPTIONS

Acc.	Reference	Photo	Description	Function
Central controller	7ACEL1707		Central controller	Control up to 64 indoor units with individual setting failure codes indication, ON-OFF dry contact, last operation memory, Modbus.
BMS	7ACEL1708		BMS gateway	Maximum 1024 units could be connected (16 gateway).

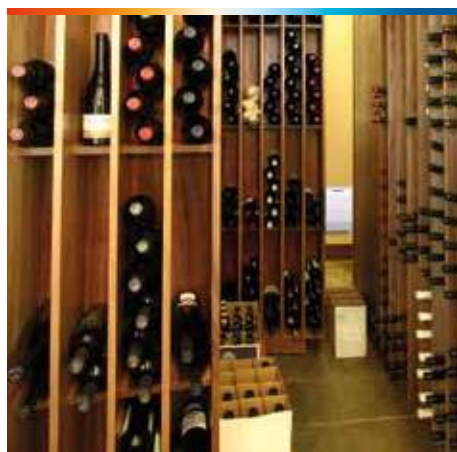
### FEATURES

 DC INVERTER	 R410A FLUID	 ELECTRONIC EXPANSION VALVE	 FRESH AIR	 I FEEL	 WIDE ANGLE LOUVER	 SLEEP MODE	 HOT KEEP	 DIGITAL DISPLAY	 SELF DIAGNOSTIC	 RESTART (MEMORY)
 REMOTE CONTROL LOCK	 LEFT/RIGHT DRAIN CONNEXION	 ALARM OUTPUT	 DRY CONTACT ON/OFF	 OUTDOOR MULTI FAN SPEED	 LOW AMBIENT COOLING	 LOW AMBIENT HEATING	 NANO PHOTOCATALYTIC FILTER	 ELECTROSTATIC FILTER - ANTIBACTERIA	 INTEGRATED WATER PUMP	 BMS COMPATIBLE

## FWDB TECHNICAL DATA

Indoor units		AWSI-FWDB018-N11	AWSI-FWDB024-N11
Outdoor units 1-230V - 50 Hz		AWAU-YLDO18-H11	AWAU-YLDO24-H11
Outdoor units 3-400V - 50 Hz		-	-
<b>COOLING</b>			
Rated capacity	kW	5.3 (1.5-6.4)	7.2 (2.0-7.8)
Pdesignc	kW	5.3	7.2
Rated power input	kW	1.63	2.24
SEER/Energy label		6.1/A++	6.4/A++
Operating limits	°C	-15°/50° Dry bulb	
<b>HEATING</b>			
Rated capacity	kW	5.9 (1.6-7.0)	7.8 (2.0-8.6)
Pdesignh (average climate)	kW	5.3	7.8
Pdesignh (warmer climate)	kW	5.3	7.8
Rated power input	kW	1.49	2.10
SCOP/Energy label (average climate)		3.8/A	3.9/A
SCOP/Energy label (warmer climate)		4.8/A++	4.6/A++
Operating limits	°C	-15°/24° Dry bulb	
Capacity @ -10°C	kW	4.3	7
Capacity @ -15°C	kW	3.7	6
<b>INDOOR UNIT</b>			
Sound pressure level to 1 m (LS/MS/HS)	dB(A)	38/41/44	46/50/52
Sound power level	dB(A)	60	63
Airflow (LS/MS/HS)	m³/h	600/750/900	1100/1250/1400
Dehumidification	l/h	2	2.3
Outline dimensions (WxHxD)	mm	1068x675x235	1068x675x235
Package dimensions (WxHxD)	mm	1145x755x313	1145x755x313
Net weight/Gross weight	kg	25/31.5	25/30
Part number		7SP012227	7SP012228
<b>OUTDOOR UNIT</b>			
Sound pressure level to 1 m	dB(A)	55	57
Sound power level	dB(A)	65	69
Airflow	m³/h	2500	3500
Compressor type		Rotary DCI	Twin Rotary DCI
Outline dimensions (WxHxD)	mm	845x700x320	900x860x315
Package dimensions (WxHxD)	mm	965x755x395	1043x915x395
Net weight/Gross weight	kg	46/50	59/63
Part number 1~230V - 50 Hz		7SP062822	7SP062823
<b>POWER SUPPLY 1~230V - 50 HZ</b>			
Power supply side		Indoor & Outdoor	Indoor & Outdoor
Power cable section	mm²	3x1.0+3x2.5	3x1.0+3x2.5
Fuse rating am	A	10+16	10+20
Electrical connections	mm²	3x0.5	3x0.5
<b>PIPE LINE</b>			
Suction pipe diameter	inches	1/2"	5/8"
Liquid pipe diameter	inches	1/4"	3/8"
Max length	m	30	50
Max height	m	20	25

## AIRWELL SOLUTIONS



IDU	Compatible with ODU
Floor ceiling	ODU single
FWDB	YLD
	



# FCF

## ON/OFF FLOOR CEILING

- Floor ceiling line available in capacities of 12.80 and 15.60 kW.
- Cooling and heating operation mode.
- "I Feel" function with precise room temperature control.

### PRODUCT ADVANTAGES

- 2 directions airflow control.
- Air fresh intake as option.
- Vertical or horizontal installation.



RC08B



RCW8 (optional)



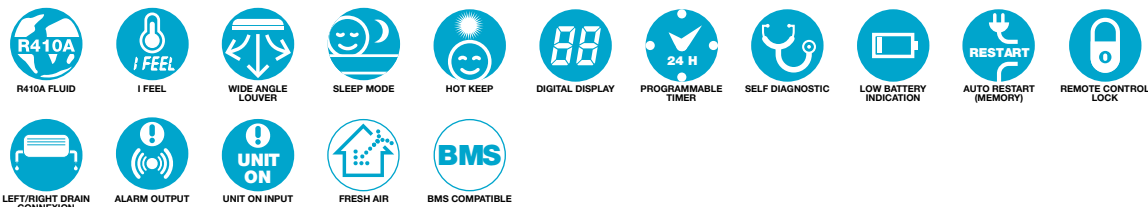
Central controller (optional)



### ACCESSORIES/OPTIONS

Acc.	Ref.	Photo	Description	Function
RCW8	7ACEL1706		Wired single control	Mode, fan speed, timer ON/OFF, temperature, swing and "I Feel".
Central controller	7ACEL1707		Central controller	Control up to 64 indoor units with individual setting failure codes indication, ON-OFF dry contact, last operation memory, Modbus.
BMS	7ACEL1708		BMS gateway	Maximum 1024 units could be connected (16 gateway).

### FEATURES





## FCF TECHNICAL DATA





Indoor units		AWSI-FCF048-N11	AWSI-FCF060-N11
Outdoor units 3~400V - 50 Hz		AWAU-YOF048-H13	AWAU-YOF060-H13
<b>COOLING</b>			
<b>Rated capacity</b>	<b>kW</b>	<b>12.8</b>	<b>15.6</b>
Rated power input	kW	4.7	5.51
EER/Energy label		2.72/D	2.83/C
Operating limits	°C	18°/43° Dry bulb	
<b>HEATING</b>			
<b>Rated capacity</b>	<b>kW</b>	<b>14.2</b>	<b>17</b>
Rated power input	kW	4.89	5.52
COP/Energy label		2.90/D	3.08/D
Operating limits	°C	-7°/24° Dry bulb	
<b>INDOOR UNIT</b>			
Sound pressure level to 1 m (LS/MS/HS)	dB(A)	50/53/56	51/54/57
Sound power level	dB(A)	66	67
Airflow (LS/MS/HS)	m³/h	1650/1800/1950	1700/1900/2300
Dehumidification	l/h	4.3	5
Outline dimensions (WxHxD)	mm	1285x675x235	1650x675x235
Package dimensions (WxHxD)	mm	1360x755x313	1725x755x313
Net weight/Gross weight	kg	30/35	40/46
<b>Part number</b>		<b>7SP012213</b>	<b>7SP012218</b>
<b>OUTDOOR UNIT</b>			
Sound pressure level to 1 m	dB(A)	62	63
Sound power level	dB(A)	72	73
Airflow	m³/h	7200	7500
Compressor type		Scroll	Scroll
Outline dimensions (WxHxD)	mm	938x1369x392	938x1369x392
Package dimensions (WxHxD)	mm	1095x1505x495	1095x1505x495
Net weight/Gross weight	kg	110/124	111.1/125.4
<b>Part number 3~400V - 50 Hz</b>		<b>7SP062848</b>	<b>7SP062849</b>
<b>POWER SUPPLY 3~400V - 50 HZ</b>			
Power supply side		Indoor & Outdoor	Indoor & Outdoor
Power cable section	mm²	3x1.0+5x2.5	3x1.0+5x2.5
Fuse rating am	A	16 + 20	16 + 20
Electrical connections	mm²	3x0.5	3x0.5
<b>PIPE LINE</b>			
Suction pipe diameter	inches	3/4"	3/4"
Liquid pipe diameter	inches	3/8"	3/8"
Max length	m	50	50
Max height	m	25	25



## AIRWELL SOLUTIONS



IDU	Compatible with ODU
Floor ceiling	ODU single
<p>FCF</p> 	<p>YOF</p> 



[ MODEL NAME ]		kW	Btu/h	Max. num. of indoors	Page	
YCZ2-18		5.2	18 000	2	76 & 78	
RESIDENTIAL LINE	YCZ3-27		7.8	26 500	3	76 & 78
	YCZ4-30		8.2	30 000	4	76 & 79
	YCZ5-36		10.5	36 000	5	76 & 80

[ MODEL NAME ]		kW	Btu/h	Max. num. of indoors	Page	
RESIDENTIAL LINE	YBZE2-18		5	18 000	2	82 & 84
	YBZE3-24		7.1	24 000	3	82 & 84

# Multisplit DCI Range Combination Table

**[ RESIDENTIAL INDOOR UNITS ]**

**High wall  
HKD 09/12/18**



**High wall  
HND 09/12/18**



**Console  
XAD 12/18X**



**Cassette  
CBD 12/18X**



**Ducted medium static  
pressure DCD 12**



**[ RESIDENTIAL INDOOR UNIT ]**

**High wall HOD 09/12/18**





# YCZ

## RESIDENTIAL MULTISPLIT DUO/TRIO/QUATTRO/CINCO

- Multi line available in four capacities from 5.2 up to 10.5 kW.
- DC Inverter and sine wave compressor drive technology.
- Match with high wall, ducted, cassette and console indoor units.

COMPATIBLE WITH



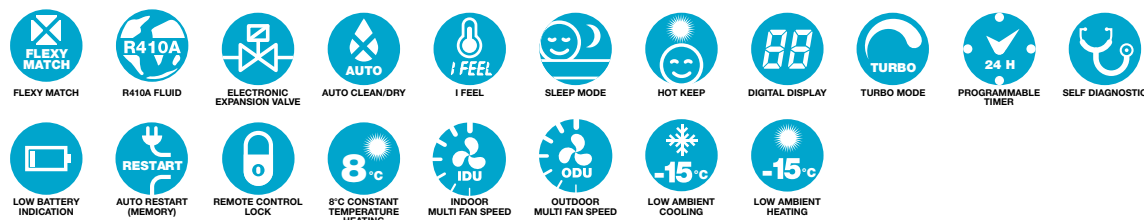
### PRODUCT ADVANTAGES

- Same indoor for multi and single application (except for XAD018X and CBD018X).
- Option to connect limited indoor units (total capacity >100% of rated capacity) and extend after installation.
- Design for long tubing distance installation.

Sizes	HKD	HND	XAD	CBD	DCD
9	AWSI-HKD009-N11 7SP022990	AWSI-HND009-N11 7SP022994	-	-	-
12	AWSI-HKD012-N11 7SP022991	AWSI-HND012-N11 7SP022995	AWSI-XAD012-N11 7SP071403	AWSI-CBD012-N11 7SP042243	AWSI-DCD012-N11 7SP032158
18	AWSI-HKD018-N11 7SP022992	AWSI-HND018-N11 7SP022996	AWSI-XAD018X-N11 7SP071405X *	AWSI-CBD018X-N11 7SP042239X *	-

\* Dedicated part number for multisplit application.

### FEATURES



## YCZ TECHNICAL DATA

Outdoor units			AWAU-YCZ218-H11	AWAU-YCZ327-H11	AWAU-YCZ430-H11	AWAU-YCZ536-H11
<b>OUTDOOR UNIT</b>						
Cooling	Rated capacity	kW	5.2	7.8	8.5	10.5
	Pdesignc	kW	5.2	7.8	8.5	10.5
	Rated power input	kW	1.62	2.43	2.65	3.27
	SEER/Energy label		6.1/A++ *	6.6/A++ *	6.6/A++ *	5.6/A+
	Operating limits	°C	-15°/50° Dry bulb			
Heating	Rated capacity	kW	6.0	8.5	9.0	11.5
	Pdesignh (average climate)	kW	5.9	8.0	8.2	10.5
	Pdesignh (warmer climate)	kW	6.0	8.0	8.2	10.5
	Rated power input	kW	1.66	2.31	2.36	3.18
	SCOP/Energy label (average climate)		4.1/A+	3.9/A	3.9/A	3.8/A
	SCOP/Energy label (warmer climate)		4.8/A++	4.6/A++	4.6/A++	4.4/A++
	Operating limits	°C	-15°/24° Dry bulb			
	Capacity @ -10C	kW	4.5	6.5	6.6	8.4
	Capacity @ -15C	kW	4	5.7	5.8	7.2
Sound pressure level to 1 m	dB(A)	55	58	58	60	
Sound power level	dB(A)	65	68	70	70	
Airflow	m³/h	2500	3500	3800	5500	
Compressor type		Twin Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter	
Outline dimensions (WxHxD)	mm	845x700x320	900x860x315	900x860x315	990x965x345	
Package dimensions (WxHxD)	mm	965x755x395	1043x915x395	1043x915x395	1120x1100x435	
Net weight/Gross weight	kg	48/52	62/67	65/69	80/91	
Part number		7SP091166	7SP091167	7SP091168	7SP091169	
<b>POWER SUPPLY 1~230V - 50 HZ</b>						
Power supply side		Outdoor	Outdoor	Outdoor	Outdoor	
Power cable section	mm²	3x2.5	3x2.5	3x2.5	3x4.0	
Fuse rating am	A	25	25	25	32	
Electrical connections	mm²	2 (4x1.0)	3 (4x1.0)	4 (4x1.0)	5 (4x1.0)	
<b>PIPE LINE</b>						
Suction pipe diameter	inches	2x3/8"	3x3/8"	4x3/8"	5x3/8"	
Liquid pipe diameter	inches	2x1/4"	3x1/4"	4x1/4"	5x1/4"	
Max length	m	30	45	60	75	
Max length per circuit	m	20	25	30	30	
Max height between indoor and outdoor units	ODU higher than IDU	m	10	10	10	10
	ODU lower than IDU	m	15	15	15	15
Max height between indoor units	m	10	10	10	10	

\* A++ for HND 9 x 2 / HND 9 x 3 / HND 9 x 4 / HKD 9 x 3 combinations.

## AIRWELL SOLUTIONS





# YCZ2-18

## RESIDENTIAL MULTISPLIT DUO

COMPATIBLE WITH

HIGH WALL HKD 9/12/18

HIGH WALL HND 9/12/18

CONSOLE XAD 12/18X



CASSETTE CBD 12/18X

DUCTED MEDIUM STATIC PRESSURE DCD 12



### CAPACITY COMBINATION

Indoor units combinations	COOLING									HEATING								
	Rated capacity (kW)		Total capacity (kW)			Total input power (kW)			EER	Rated capacity (kW)		Total capacity (kW)			Total input power (kW)			COP
	Unit A	Unit B	min.	rated	max.	min.	rated	max.	rated capacity	Unit A	Unit B	min.	rated	max.	min.	rated	max.	rated capacity
9+9	2.60	2.60	3.64	5.20	6.20	0.84	1.62	2.09	3.21	3.00	3.00	4.20	6.00	6.50	0.77	1.66	1.81	3.62
9+12	2.50	3.20	3.99	5.70	6.20	0.97	1.76	2.09	3.23	2.70	3.50	4.34	6.20	6.50	0.93	1.71	1.81	3.62
9+18	2.00	4.30	4.41	6.30	6.70	1.12	1.96	2.15	3.21	2.00	4.40	4.48	6.40	6.80	0.99	1.77	1.89	3.61
12+12	3.10	3.10	4.34	6.20	6.70	1.10	1.93	2.15	3.21	3.20	3.20	4.48	6.40	6.80	0.99	1.77	1.89	3.61

Based on wall mounted combination



# YCZ3-27

## RESIDENTIAL MULTISPLIT TRIO

COMPATIBLE WITH

HIGH WALL HKD 9/12/18

HIGH WALL HND 9/12/18

CONSOLE XAD 12/18X



CASSETTE CBD 12/18X

DUCTED MEDIUM STATIC PRESSURE DCD 12



### CAPACITY COMBINATION

Indoor units combinations	COOLING										HEATING									
	Rated capacity (kW)			Total capacity (kW)			Total input power (kW)			EER	Rated capacity (kW)			Total capacity (kW)			Total input power (kW)			COP
	Unit A	Unit B	Unit C	min.	rated	max.	min.	rated	max.	rated capacity	Unit A	Unit B	Unit C	min.	rated	max.	min.	rated	max.	rated capacity
9+18	2.60	5.20	-	5.46	7.80	9.44	1.45	2.42	3.05	3.22	2.88	5.87	-	5.94	8.75	10.59	1.45	2.41	3.04	3.63
12+18	3.20	4.80	-	5.95	8.00	9.68	1.49	2.48	3.12	3.23	3.45	3.45	-	6.09	6.90	8.35	1.15	1.91	2.41	3.61
18+18	4.60	4.60	-	6.44	9.20	10.86	1.71	2.85	3.53	3.23	3.39	5.61	-	7.00	9.00	10.62	1.49	2.49	3.08	3.62
9+9+9	2.60	2.60	2.60	5.46	7.80	8.81	1.41	2.43	3.01	3.21	2.83	2.83	2.83	5.94	8.49	9.59	1.51	2.31	2.86	3.68
9+9+12	2.50	2.50	3.50	5.95	8.50	9.61	1.60	2.62	3.24	3.25	2.60	2.60	3.50	6.09	8.70	9.83	1.53	2.37	2.94	3.67
9+9+18	2.30	2.30	4.60	6.44	9.20	10.40	1.73	2.84	3.46	3.24	2.50	2.50	5.00	7.00	10.00	11.30	1.79	2.75	3.35	3.64
9+12+12	2.50	3.50	3.50	6.65	9.50	10.74	1.90	2.94	3.59	3.23	2.50	3.50	3.50	6.65	9.50	10.74	1.71	2.61	3.18	3.64
9+12+18	2.10	3.20	4.50	6.86	9.80	11.07	1.96	3.04	3.71	3.22	2.30	3.20	5.00	7.35	10.50	11.87	1.88	2.90	3.54	3.62
12+12+12	2.90	2.90	2.90	6.09	8.70	9.83	1.63	2.70	3.30	3.22	3.30	3.30	3.30	6.93	9.90	11.19	1.78	2.72	3.32	3.64

Based on wall mounted combination



# YCZ4-30

## RESIDENTIAL MULTISPLIT QUATTRO

COMPATIBLE WITH

HIGH WALL HKD 9/12/18



HIGH WALL HND 9/12/18



CONSOLE XAD 12/18X



CASSETTE CBD 12/18X



DUCTED MEDIUM STATIC PRESSURE DCD 12



### CAPACITY COMBINATION

Indoor units combinations	COOLING											HEATING										
	Rated capacity (kW)				Total capacity (kW)			Total input power (kW)			EER	Rated capacity (kW)				Total capacity (kW)			Total input power (kW)			COP
	Unit A	Unit B	Unit C	Unit D	min.	rated	max.	min.	rated	max.	rated capacity	Unit A	Unit B	Unit C	Unit D	min.	rated	max.	min.	rated	max.	rated capacity
9+18	2.59	5.29	-	-	3.31	7.88	9.61	1.02	2.56	3.45	3.08	2.77	5.65	-	-	3.54	8.42	10.27	0.93	2.32	3.11	3.63
12+18	3.06	5.06	-	-	3.41	8.12	9.91	1.04	2.60	3.51	3.12	3.15	5.21	-	-	3.51	8.36	10.20	0.92	2.29	3.07	3.65
18+18	4.51	4.51	-	-	3.79	9.02	11.00	1.16	2.89	3.90	3.12	4.41	4.41	-	-	3.70	8.82	10.76	0.97	2.44	3.26	3.62
9+9+9	2.63	2.63	2.63	-	3.31	7.88	9.61	1.00	2.50	3.38	3.15	2.84	2.84	2.84	-	3.58	8.52	10.39	0.91	2.28	3.06	3.73
9+9+12	2.51	2.51	3.09	-	3.41	8.12	9.91	1.03	2.57	3.47	3.16	2.74	2.74	3.38	-	3.72	8.86	10.81	0.94	2.36	3.16	3.76
9+9+18	2.23	2.23	4.55	-	3.79	9.02	11.00	1.12	2.81	3.79	3.21	2.46	2.46	5.01	-	4.17	9.92	12.10	1.07	2.67	3.58	3.71
9+12+12	2.50	3.08	3.08	-	3.63	8.65	10.55	1.07	2.69	3.63	3.22	2.71	3.34	3.34	-	3.94	9.38	11.44	1.00	2.50	3.35	3.75
9+12+18	2.13	2.62	4.34	-	3.82	9.09	11.09	1.13	2.82	3.81	3.22	2.36	2.91	4.81	-	4.23	10.08	12.30	1.08	2.71	3.63	3.72
12+12+12	2.95	2.95	2.95	-	3.72	8.85	10.80	1.10	2.76	3.72	3.21	3.25	3.25	3.25	-	4.10	9.76	11.91	1.03	2.58	3.46	3.78
9+9+9+9	2.13	2.13	2.13	2.13	3.49	8.52	10.39	1.06	2.65	3.57	3.22	2.25	2.25	2.25	2.25	3.69	9.00	10.98	0.94	2.36	3.17	3.81
9+9+9+12	2.11	2.11	2.11	2.60	3.67	8.94	10.91	1.10	2.75	3.71	3.25	2.25	2.25	2.25	2.78	3.91	9.54	11.64	1.01	2.52	3.38	3.78

Based on wall mounted combination



# YCZ5-36

## RESIDENTIAL MULTISPLIT CINCO

COMPATIBLE WITH

HIGH WALL  
HKD 9/12/18

HIGH WALL  
HND 9/12/18

CONSOLE  
XAD 12/18X



CASSETTE  
CBD 12/18X

DUCTED MEDIUM STATIC  
PRESSURE DCD 12



### CAPACITY COMBINATION

Indoor units combinations	COOLING												HEATING													
	Rated capacity (kW)					Total cooling capacity (kW)			Total Input power (kW)				EER	Rated capacity (kW)					Total heating capacity (kW)			Total Input power (kW)				COP
	Unit A	Unit B	Unit C	Unit D	Unit E	min.	rated	max.	min.	rated	max.	rated capacity		Unit A	Unit B	Unit C	Unit D	Unit E	min.	rated	max.	min.	rated	max.	rated capacity	
18+18	5.26	5.26	-	-	-	4.31	10.52	12.73	1.47	3.42	4.30	3.08	5.55	5.55	-	-	-	4.66	11.10	13.65	1.35	3.32	4.23	3.34		
9+9+18	2.82	2.82	5.11	-	-	4.00	10.75	11.80	1.35	3.49	3.96	3.08	2.75	2.75	5.60	-	-	4.66	11.10	13.65	1.35	3.32	4.23	3.34		
9+12+12	2.82	3.47	3.47	-	-	4.31	9.75	12.71	1.45	3.17	4.25	3.08	3.13	3.86	3.86	-	-	4.56	10.85	13.35	1.35	3.23	4.23	3.36		
9+12+18	2.46	3.03	5.01	-	-	4.31	10.50	12.71	1.44	3.40	4.22	3.09	2.67	3.28	5.43	-	-	4.78	11.38	13.65	1.39	3.40	4.34	3.35		
9+18+18	2.31	4.72	4.72	-	-	4.62	11.75	13.65	1.54	3.63	4.50	3.24	2.33	4.75	4.75	-	-	4.97	11.84	13.65	1.47	3.52	4.58	3.36		
12+12+12	3.25	3.25	3.25	-	-	3.37	9.75	12.71	1.17	3.13	3.42	3.12	3.62	3.62	3.62	-	-	4.56	10.85	13.35	1.35	3.18	4.23	3.41		
12+12+18	3.09	3.09	5.11	-	-	4.82	11.28	13.80	1.59	3.59	4.65	3.14	3.11	3.11	5.16	-	-	4.78	11.38	13.65	1.40	3.33	4.38	3.42		
12+18+18	2.72	4.51	4.51	-	-	4.82	11.75	13.80	1.60	3.77	4.68	3.12	2.79	4.62	4.62	-	-	5.06	12.04	13.65	1.48	3.58	4.63	3.36		
18+18+18	4.10	4.10	4.10	-	-	5.05	12.31	13.80	1.66	3.91	4.85	3.15	4.47	4.47	2.53	-	-	5.64	11.48	13.65	1.65	3.42	5.16	3.36		
9+9+9+9	2.55	2.55	2.55	2.55	-	4.31	10.20	12.81	1.35	3.24	4.21	3.15	1.86	1.86	2.98	4.93	-	4.88	11.63	11.23	1.36	3.36	4.14	3.46		
9+9+9+12	2.48	2.48	2.48	3.05	-	4.31	10.50	12.81	1.41	3.33	4.11	3.15	2.27	2.94	2.94	2.94	-	4.66	11.10	11.22	1.33	3.19	4.04	3.48		
9+9+9+18	2.29	2.29	2.29	4.66	-	4.72	11.52	13.82	1.57	3.65	4.56	3.16	2.64	2.64	2.64	3.25	-	4.69	11.16	11.37	1.29	3.21	3.95	3.48		
9+9+12+12	2.51	2.51	3.09	3.09	-	4.59	11.20	13.44	1.53	3.57	4.45	3.14	2.03	2.64	3.25	3.25	-	4.69	11.16	11.96	1.34	3.26	4.10	3.42		
9+9+12+18	2.38	2.38	2.93	4.86	-	5.15	12.56	13.80	1.69	3.97	4.90	3.16	2.50	2.50	3.08	3.08	-	4.69	11.16	12.84	1.28	3.14	3.91	3.55		
9+12+12+12	2.46	3.02	3.02	3.02	-	5.65	13.78	13.80	1.87	4.40	5.42	3.13	1.74	2.27	4.62	4.62	-	5.57	13.25	13.43	1.60	3.86	4.87	3.43		
9+12+12+18	2.41	2.96	2.96	4.91	-	4.72	11.52	13.82	1.57	3.66	4.56	3.15	2.30	2.30	2.84	4.70	-	5.10	12.14	13.65	1.43	3.51	4.37	3.46		
9+9+18+18	2.27	2.27	4.62	4.62	-	5.43	13.24	13.80	1.78	4.19	5.16	3.16	2.85	2.85	2.85	4.71	-	5.57	13.25	13.65	1.57	3.81	4.78	3.48		
12+12+12+12	2.96	2.96	2.96	2.96	-	4.85	11.82	13.80	1.60	3.68	4.65	3.21	1.74	2.78	4.61	4.61	-	5.77	13.74	12.54	1.66	3.81	5.05	3.61		
12+12+12+18	2.84	2.84	2.84	4.71	-	5.43	13.24	13.80	1.77	4.12	5.14	3.21	2.48	3.05	3.05	3.05	-	4.88	11.63	13.65	1.36	3.21	4.15	3.62		
9+9+9+9+9	2.10	2.10	2.10	2.10	2.10	4.87	10.50	12.92	1.62	3.27	4.70	3.21	2.30	2.30	2.30	2.30	2.30	6.16	11.50	13.65	1.71	3.13	5.23	3.67		
9+9+9+9+12	2.10	2.10	2.10	2.10	2.80	4.73	11.20	13.06	1.57	3.47	4.57	3.23	2.30	2.30	2.30	3.00	5.38	12.20	13.65	1.46	3.34	4.46	3.65			
9+9+9+9+18	2.00	2.00	2.00	2.00	4.20	5.13	12.20	13.31	1.72	3.80	5.01	3.21	2.10	2.10	2.10	4.50	6.16	12.90	13.65	1.70	3.57	5.18	3.61			
9+9+9+12+12	2.10	2.10	2.10	2.80	2.80	5.55	11.90	13.80	1.85	3.71	5.36	3.21	2.20	2.20	2.20	2.90	2.90	5.89	12.40	13.65	1.62	3.43	4.95	3.62		
9+9+9+12+18	2.17	2.17	2.17	2.70	4.40	5.59	13.62	13.80	1.90	4.31	5.52	3.16	2.20	2.20	2.20	2.80	4.70	6.16	14.10	13.65	1.67	3.91	5.10	3.61		
9+9+12+12+12	2.10	2.10	2.70	2.70	2.70	5.13	12.31	13.31	1.72	3.83	4.98	3.21	2.20	2.20	2.80	2.80	2.80	5.04	12.80	13.65	1.36	3.53	4.15	3.63		
9+12+12+12+12	2.05	2.60	2.60	2.60	2.60	5.47	12.45	13.80	1.84	3.92	5.34	3.18	2.10	2.75	2.75	2.75	2.75	5.83	13.10	13.65	1.59	3.70	4.86	3.54		
12+12+12+12+12	2.50	2.50	2.50	2.50	2.50	5.59	12.50	13.80	1.90	3.96	5.52	3.16	2.70	2.70	2.70	2.70	2.70	6.16	13.50	13.65	1.72	3.87	5.24	3.49		

Based on wall mounted combination



# YBZE

## HIGH WALL RESIDENTIAL MULTISPLIT DUO/TRIO



- Multi line available in 3 capacities from 5 up to 7.1 kW.
- DC Inverter and sine wave compressor drive technology.
- Apply with high wall line.

COMPATIBLE WITH

HIGH WALL HOD 9/12/18



### PRODUCT ADVANTAGES

- A/A class efficiency. Minimum energy consumption.
- Rapid operation in cooling and heating mode.
- Advance logic for precise temperature control.

### FEATURES

A/A CLASS EFFICIENCY	DC INVERTER	SINE WAVE COMPRESSOR DRIVE	LOW VOLTAGE STARTUP	LOW TEMPERATURE STARTUP	R410A FLUID	ELECTRONIC EXPANSION VALVE	NANO PHOTOCATALYTIC FILTER	ELECTROSTATIC FILTER - ANTIBACTERIA	AUTO CLEAN/DRY	I FEEL
WIDE ANGLE LOUVER	SLEEP MODE	HOT KEEP	DIGITAL DISPLAY	TURBO MODE	SELF DIAGNOSTIC	LOW BATTERY INDICATION	AUTO RESTART (MEMORY)	REMOTE CONTROL LOCK	ADVANCED DEFROST	TECHNICIAN TEST MODE
LOW AMBIENT HEATING										



## YBZE TECHNICAL DATA

Outdoor units		AWAU-YBZE218-H11	AWAU-YBZE324-H11
<b>COOLING</b>			
Rated capacity	kW	5.0 (2.05-6.2)	7.1 (2.2-10)
Pdesignc	kW	5.0	7.1
Rated power input	kW	1.55	2.25
SEER/Energy label		6.3/A++	5.1/A
Operating limits	°C	-15°/48° Dry bulb	
<b>HEATING</b>			
Rated capacity	kW	5.6 (2.5-6.65)	8.5 (3.6-11)
Pdesignh (average climate)	kW	4.8	7.0
Pdesignh (warmer climate)	kW	5	8
Rated power input	kW	1.55	2.35
SCOP/Energy label (average climate)		4.0/A	3.8/A
SCOP/Energy label (warmer climate)		4.8/A++	4.6/A++
Operating limits	°C	-15°/24° Dry bulb	
Capacity @ -10°C	kW	4.0	6.3
Capacity @ -15°C	kW	3.4	5.8
<b>OUTDOOR UNIT</b>			
Sound pressure level to 1 m	dB(A)	53	58
Sound power level	dB(A)	63	68
Airflow	m³/h	3200	4000
Compressor type		Twin Rotary DC Inverter	Twin Rotary DC Inverter
Outline dimensions (WxHxD)	mm	963x700x396	1001x790x427
Package dimensions (WxHxD)	mm	1029x750x458	1083x855x488
Net weight/Gross weight	kg	50/55	64/70
Part number		7SP091158	7SP091159
<b>POWER SUPPLY 1~230V - 50 HZ</b>			
Power supply side		Outdoor	Outdoor
Power cable section	mm²	3x2.5	3x2.5
Fuse rating am	A	25	32
Electrical connections	mm²	2x (4x1.0)	3x (4x1.0)
<b>PIPE LINE</b>			
Suction pipe diameter	inches	2x3/8"	3x3/8"
Liquid pipe diameter	inches	2x1/4"	3x1/4"
Max length	m	20	70
Max length per circuit	m	10	20
Max height between indoor and outdoor units	m	10	10
Max height between indoor units	m	10	10

## AIRWELL SOLUTIONS





# YBZE2-18

## RESIDENTIAL MULTISPLIT DUO

COMPATIBLE WITH

HIGH WALL HOD 9/12/18



### CAPACITY COMBINATION

Indoor units combinations	COOLING									HEATING								
	Capacity (kW)					Power input (kW)			EER	Capacity (kW)					Power input (kW)			COP
	A	B	Nominal	Min	Max	Nominal	Min	Max		A	B	Nominal	Min	Max	Nominal	Min	Max	
9	2.60	-	2.60	1.50	3.50	0.85	0.50	2.00	3.06	3.20	-	3.20	1.60	4.50	1.10	0.55	2.00	2.91
12	3.50	-	3.50	2.00	4.40	1.10	0.50	2.00	3.18	3.80	-	3.80	1.80	4.80	1.15	0.55	2.00	3.30
9+9	2.50	2.50	5.00	2.05	6.20	1.55	0.50	2.55	3.23	2.80	2.80	5.60	2.50	6.65	1.55	0.58	2.70	3.61
9+12	2.14	2.86	5.00	2.15	6.30	1.55	0.50	2.55	3.23	2.40	3.20	5.60	2.50	6.75	1.55	0.58	2.70	3.61
12+12	2.50	2.50	5.00	2.15	6.30	1.55	0.50	2.55	3.23	2.80	2.80	5.60	2.50	6.75	1.55	0.58	2.70	3.61

Based on wall mounted combination



# YBZE3-24

## RESIDENTIAL MULTISPLIT TRIO

COMPATIBLE WITH

HIGH WALL HOD 9/12/18



### CAPACITY COMBINATION

Indoor units combinations	COOLING										HEATING									
	Capacity (kW)						Power input (kW)			EER	Capacity (kW)						Power input (kW)			COP
	A	B	C	Nominal	Min	Max	Nominal	Min	Max		A	B	C	Nominal	Min	Max	Nominal	Min	Max	
9+9	2.60	2.60	-	5.20	2.00	7.80	1.55	0.60	4.20	3.35	3.20	3.20	-	6.40	3.20	8.50	2.05	0.90	3.95	3.12
9+12	2.61	3.49	-	6.10	2.10	8.00	2.00	0.70	4.30	3.05	3.09	4.11	-	7.20	3.50	9.30	2.25	0.90	4.40	3.20
9+18	2.33	4.67	-	7.00	2.25	9.20	2.18	0.80	4.40	3.21	2.57	5.13	-	7.70	3.70	9.90	2.40	0.90	4.40	3.21
12+12	3.50	3.50	-	7.00	2.20	8.20	2.18	0.75	4.30	3.21	3.85	3.85	-	7.70	3.50	9.50	2.26	0.90	4.40	3.41
12+18	2.80	4.20	-	7.00	2.30	9.50	2.18	0.80	4.40	3.21	3.12	4.68	-	7.80	3.80	11.00	2.40	0.90	4.40	3.25
9+9+9	2.37	2.37	2.37	7.10	2.20	10.00	2.20	0.65	4.60	3.23	2.83	2.83	2.83	8.50	3.60	11.00	2.40	0.85	4.00	3.54
9+9+12	2.13	2.13	2.84	7.10	2.20	10.00	2.20	0.65	4.60	3.23	2.57	2.57	3.42	8.55	3.80	11.00	2.40	0.85	4.00	3.56
9+9+18	1.78	1.78	3.55	7.10	2.20	10.00	2.20	0.65	4.65	3.23	2.14	2.14	4.28	8.55	3.80	11.00	2.40	0.85	4.00	3.56
9+12+12	1.94	2.58	2.58	7.10	2.20	10.00	2.20	0.65	4.65	3.23	2.33	3.11	3.11	8.55	3.80	11.00	2.40	0.85	4.00	3.56
9+12+18	1.64	2.18	3.28	7.10	2.20	10.00	2.20	0.65	4.65	3.23	1.97	2.63	3.95	8.55	3.80	11.00	2.40	0.85	4.00	3.56
12+12+12	2.37	2.37	2.37	7.10	2.20	10.00	2.20	0.65	4.65	3.23	2.85	2.85	2.85	8.55	3.80	11.00	2.40	0.85	4.00	3.56
12+12+18	2.03	2.03	3.04	7.10	2.20	10.00	2.20	0.65	4.65	3.23	2.44	2.44	3.66	8.55	3.80	11.00	2.40	0.85	4.00	3.56

Based on wall mounted combination

• Unique  
• solutions

# Twin application



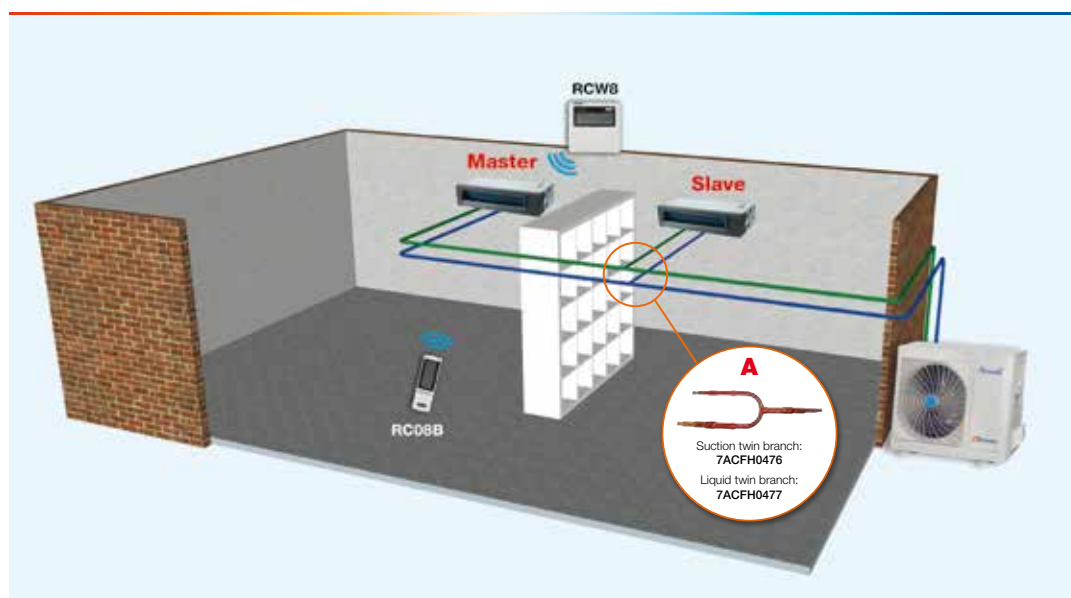
## Twin application



The twin application is used mainly in big open space once the space area is controlling by one controller only for 2 units. Airwell twin design allows to connect two similar indoor units to one common outdoor unit. The two indoor units working in the same function and set up once one indoor unit use as a master.

### The most economical solution for single-area spaces:

- Simple installation by having one refrigerant and control system.
- Space saving by using one outdoor unit instead of two.
- Low cost installation.
- Simple control, one control station for big space.
- Option to control by wireless or wired controller.
- Ducted or cassette application.



- Twin application with ducted DCD, see page 44.
- Twin application with cassette CBD, see page 56.

# Monobloc & Floor Standing Range

[ MODEL NAME ]

Page

ON/OFF PORTABLE

MAF



90

WINDOW

**NEW**



WFD



91

ON/OFF FLOOR STANDING

SBF



92

9  
2.5 kW

12  
3.5 kW

48  
12.5 kW



Monobloc &  
Floor standing



# MAF

## ON/OFF PORTABLE

- Portable line available in capacities 2.64 and 3.52 kW.
- Cooling only operation mode.



RC08B

### PRODUCT ADVANTAGES

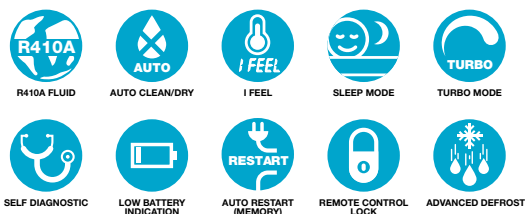
- 0.5 W in standby mode.
- Installation kit for window and wall as standard.
- Manual control integrated.
- Wireless remote control provided as standard.
- Self evaporative system.



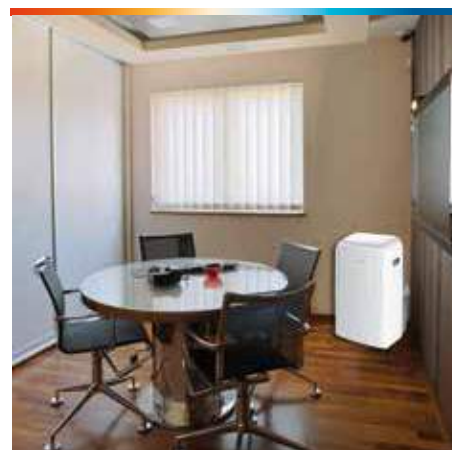
### MAF TECHNICAL DATA

Indoor units		AWPO-MAF009-C11	AWPO-MAF012-C11
<b>COOLING</b>			
Rated capacity	kW	2.64	3.52
Rated power input	kW	1.01	1.35
EER/Energy label		2.61/A	2.61/A
Operating limits	°C	17°/35° Dry bulb	
<b>INDOOR UNIT</b>			
Type		Monobloc	Monobloc
Sound Pressure level (LS/MS/HS)	dB(A)	46/49/52	46/49/52
Sound Power Level	dB(A)	65	65
Airflow	m³/h	370	370
Dehumidification	l/h	1.6	1.8
Outline dimensions (WxHxD)	mm	467x765x397	467x765x397
Package dimensions (WxHxD)	mm	517x880x437	517x880x437
Net weight/Gross weight	kg	30/34	33.5/37
Part number		7MB021056	7MB021057

### FEATURES



### AIRWELL SOLUTIONS





# WFD WINDOW

- Window line available in capacities 2.75 and 3.7 kW.
- Based on Inverter technology.
- Cooling operation mode.
- Side air return.

## PRODUCT ADVANTAGES

- **ECO DCI Window.**
- **New and refrigerant R32 environmental friendly.**
- Unique design that can reach the ECO design requirements and 1W in standby.
- Design and working with R-32 that is one of the lowest Global Warming Potential (GWP).
- High efficiency that can reach SEER over 5.0.
- Bi operation methods, on unit or by remote control.



WFD RC

## WFD TECHNICAL DATA

Indoor units		AWWR-WFD009-C11	AWWR-WFD012-C11
<b>COOLING</b>			
Rated capacity	kW	2.75	3.7
Pdesignc	kW	2.75	3.7
Rated power input	kW	0.81	1.09
SEER/Energy label		5.10/A	5.10/A
Operating limits	°C	18°/ 43° Dry bulb	
<b>INDOOR UNIT</b>			
Sound pressure level to 1 m (LS/MS/HS)	dB(A)	45/47/49	45/47/49
Airflow (LS/MS/HS)	m³/h	310/350/380	400/450/490
Dehumidification	l/h	1.0	1.2
Compressor type		Rotary	Rotary
Outline dimensions (WxHxD)	mm	560x375x710	660x428x700
Package dimensions (WxHxD)	mm	806x623x425	793x739x515
Net weight/Gross weight	kg	34/36.7	46/50
Part number		7WT010008	7WT010009
<b>POWER SUPPLY 1~230V - 50 HZ</b>			
Power supply side		Indoor	Indoor
Power cable section	mm²	3x1.0	3x1.5
Fuse rating am	A	10	10

## FEATURES



## AIRWELL SOLUTIONS







## SBF

### ON/OFF FLOOR STANDING

- Floor standing available in 12.4 kW capacity.
- Cooling & heating operation mode.
- "I Feel" function with precise room temperature control.



RC08B

### PRODUCT ADVANTAGES

- Low ambient cooling operation up to -7°C as a standard.
- Modern design & digital display.
- Auxiliary electrical heater 3.5 kW.

### FEATURES



R410A FLUID



SLEEP MODE



HOT KEEP



DIGITAL DISPLAY

PROGRAMMABLE  
TIMER

SELF DIAGNOSTIC

LOW BATTERY  
INDICATIONAUTO RESTART  
(MEMORY)REMOTE CONTROL  
LOCK

AUXILIARY HEATER

LOW AMBIENT  
COOLING



FRESH AIR

## SBF TECHNICAL DATA

<b>Indoor unit</b>		<b>AWSI-SBF048-N11</b>
<b>Outdoor unit</b>		<b>AWAU-YSF048-H13</b>
<b>COOLING</b>		
<b>Rated capacity</b>	<b>kW</b>	<b>12.4</b>
<b>Rated capacity of auxiliary heater</b>	<b>kW</b>	<b>3.50</b>
Rated power input	kW	4.62
EER/Energy label		2.68/D
Operating limits	°C	-7°/43° Dry bulb
<b>HEATING</b>		
<b>Rated capacity</b>	<b>kW</b>	<b>13.6 (+3.5)</b>
Rated power input	kW	4.84 (+3.5)
COP/Energy label		2.81/D
Operating limits	°C	-7°/24° Dry bulb
<b>INDOOR UNIT</b>		
Sound pressure level to 1 m (LS/HS)	dB(A)	48/56
Sound power level	dB(A)	66
Airflow (LS/HS)	m³/h	1500/1850
Dehumidification	l/h	4.6
Outline dimensions (WxHxD)	mm	550x1800x350
Package dimensions (WxHxD)	mm	685x1910x540
Net weight/Gross weight	kg	48/63.3
<b>Part number</b>		<b>7SP011084</b>
<b>OUTDOOR UNIT</b>		
Sound pressure level to 1 m	dB(A)	61
Sound power level	dB(A)	71
Airflow	m³/h	5600
Compressor type		Scroll
Outline dimensions (WxHxD)	mm	938x1369x392
Package dimensions (WxHxD)	mm	1095x1505x495
Net weight/Gross weight	kg	111/123.4
<b>Part number</b>		<b>7SP062850</b>
<b>POWER SUPPLY 3~400V - 50 HZ</b>		
Power supply side		Outdoor
Power cable section	mm²	5x2.5
Fuse rating am	A	25
Electrical connections	mm²	6x1.5
<b>PIPE LINE</b>		
Suction pipe diameter	inches	3/4"
Liquid pipe diameter	inches	1/2"
Max length	m	20
Max height	m	10

## AIRWELL SOLUTIONS



IDU	Compatible with ODU
Floor standing	ODU single
SBF	YSF
	

**[ MODEL NAME ]**

Page

ON/OFF WATER CONSOLE

**CAO**



96 & 98

ON/OFF WATER SOURCE

**GCAO +  
HHF/CAF/DAF**



96 & 100

**Water Range**

7  
2 kW

9  
2.5 kW

12  
3.5 kW

18  
5 kW

24  
7 kW



• Unique  
• solutions

# CAO/GCAO: water condensing solution

# Easy and simple installation



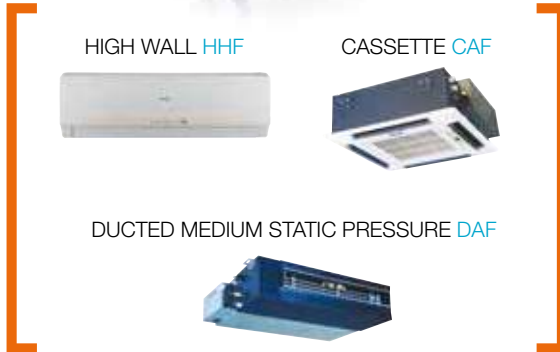
No outdoor unit



【 PACKAGE SOLUTION 】



【 SPLIT SOLUTION 】



# Features

- Ideal solution for building with local restrictions or aesthetic solution.
- Easy and simple installation.
- Solution for places without access to external wall.
- High efficiency system with advance heat exchanger.
- Built in system protection in water side.





# CAO



## ON/OFF WATER CONSOLE

- Water console with capacities from 2.3 to 4.7 kW.
- Cooling mode.
- Electrical heater in option.
- Refrigerant: R407C

### [ PRODUCT ADVANTAGES ]

- Ideal indoor solution when the building structure or aesthetic reasons forbid a condensing outdoor unit.
- Able to be connected to public water network.
- Pressostat valve supplied.

### ACCESSORIES/OPTIONS

Acc.	Reference	Description	Function
Electrical heater	7ACEL0006	Electrical heater 2 kW.	Simple electrical additional heater 2 kW.
	7ACEL0007	Electrical heater 3 kW.	Simple electrical additional heater 3 kW.
Wired remote control	7ACEL0039	Simple wired remote control.	Simple function as ON/OFF, operating mode temperature.

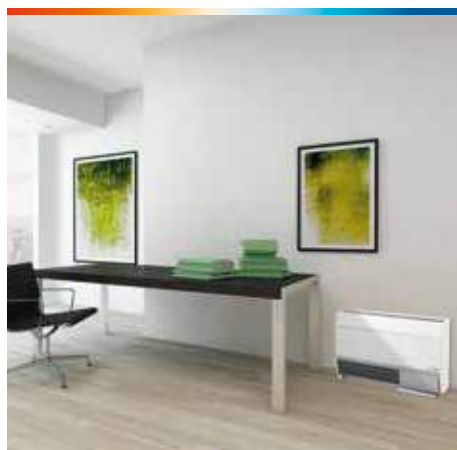
### FEATURES



## CAO TECHNICAL DATA

Indoor units		CAO 230	CAO 370	CAO 580
<b>COOLING</b>				
<b>Rated capacity</b>	<b>kW</b>	<b>2.3</b>	<b>3</b>	<b>4.7</b>
Rated power input	kW	0.66	0.85	1.3
EER/Energy label		3.4/E	3.5/D	3.6/D
Operating limits	°C	15°/32° Dry Bulb		
Condenser inlet water temperature		10°/30°		
<b>INDOOR UNIT</b>				
Sound pressure level to 1 m (LS/HS)	dB(A)	37/40	38/41	41/43
New airflow	m³/h	60	60	80
Airflow (LS/HS)	m³/h	450/550	450/550	725/880
Water flow at +15°C	l/h	130	170	270
Compressor type		Rotary	Rotary	Rotary
Dimensions (WxHxD)	mm	1030x620x226	1030x620x226	1390x620x226
Weight	kg	48	49	69
<b>Part number</b>		<b>7CW011016</b>	<b>7CW011017</b>	<b>7CW011018</b>
<b>POWER SUPPLY 1-230V - 50HZ</b>				
Power supply side		Indoor	Indoor	Indoor
Power cable section	mm²	3x1.5	3x1.5	3x1.5
Fuse rating am		6	6	8

## AIRWELL SOLUTIONS







# GCAO Unique solutions

## ON/OFF WATER SOURCE

- Water cooled unit available in capacities from 2.7 up to 6.37 kW.
- Cooling only operation mode

COMPATIBLE WITH

HIGH WALL HHF



CASSETTE CAF



+ adaptor

DUCTED MEDIUM STATIC PRESSURE DAF




+ adaptor

### PRODUCT ADVANTAGES

- Water flow protection by presostat valve.
- High pressure switch with manual reset.
- Super quiet.
- Connection to HHF, CAF and DAF indoor units.
- Ideal solution for premises where it is impossible to install an outdoor unit.
- Connection to recycled or lost water systems.
- Able to be connected to public water network.
- Pressostat valve supplied.

### ACCESSORIES/OPTIONS

Acc.	Reference	Photo	Description	Function
Adaptor	7ACEL1653		Additional adaptor refer to all CAF/DAF	Electronic adapter between IDU CAF/DAF to ODU GCAO.

### FEATURES



**AA CLASS**  
A/A CLASS EFFICIENCY



**R410A FLUID**



**NANO PHOTOCATALYTIC FILTER**



**ELECTROSTATIC FILTER - ANTIBACTERIA**



**AUTO CLEAN/DRY**



**I FEEL**



**WIDE ANGLE LOUVER**



**SLEEP MODE**



**TURBO MODE**



**LOW BATTERY INDICATION**



**RESTART  
AUTO RESTART (MEMORY)**



**REMOTE CONTROL LOCK**

## GCAO TECHNICAL DATA

Outdoor units		GCAO 9N	GCAO 12N	GCAO 18N	GCAO 24N
<b>COOLING</b>					
<b>Rated capacity</b>	<b>kW</b>	<b>2.70</b>	<b>3.65</b>	<b>5.85</b>	<b>6.37</b>
Rated power input	kW	0.68	0.94	1.34	1.90
EER/Energy label		4.19/A	3.88/B	4.37/A	3.76/B
Operating limits indoor temperature	°C	17°/32° Dry Bulb			
Condenser inlet water temperature	°C	10°/45°			
<b>WATER SOURCE</b>					
Sound power level to 1 m	dB(A)	49	49	51	53
Waste water flow at + 15°C	l/h	120	160	250	320
Recycled water flow 30/35°C	l/h	600	850	1 250	1 550
Compressor type		Rotary	Rotary	Rotary	Rotary
Dimensions (WxHxD)	mm	625x473x360	625x473x360	625x473x360	625x473x360
Weight	kg	41	45	50	56
<b>Part number</b>		<b>7SP101040</b>	<b>7SP101041</b>	<b>7SP101045</b>	<b>7SP101044</b>
<b>PIPE LINE</b>					
Suction pipe diameter	inches	3/8"	1/2" *	1/2"	1/2"
Liquid pipe diameter	inches	1/4"	1/4"	1/4"	1/4"
Max length	m	25	25	25	25
Max height	m	15	15	15	15
<b>INDOOR UNIT</b>					
Power supply		1~230V - 50 Hz			
Power supply side		Indoor	Indoor	Indoor	Indoor
Power cable section	mm <sup>2</sup>	3x1.5	3x1.5	3x1.5	3x2.5
Fuse rating am	A	10	10	10	16
Electrical connections	mm <sup>2</sup>	3x1.5	3x1.5	3x1.5	4x2.5
<b>Indoor units high wall</b>		<b>AWSI-HHF009-N11</b>	<b>AWSI-HHF012-N11</b>	<b>AWSI-HHF018-N11</b>	<b>AWSI-HHF024-N11</b>
Sound pressure level to 1 m (LS/MS/HS/SS)	dB(A)	32/35/37/40	32/35/38/41	35/39/42/45	38/41/44/47
Sound power level (LS/MS/HS/SS)	dB(A)	42/45/47/50	42/45/48/51	45/49/52/55	48/51/54/57
Dehumidification	l/h	0.8	1.2	1.8	3
Airflow (LS/MS/HS/SS)	m <sup>3</sup> /h	310/340/370/400	350/420/500/550	550/650/780/850	550/650/780/850
Dimensions (WxHxD)	mm	730x255x174	790x265x177	940x298x200	940x298x200
Weight	kg	8	9	13	13
<b>Part number</b>		<b>7SP022856</b>	<b>7SP022857</b>	<b>7SP022858</b>	<b>7SP022859</b>
<b>Indoor units cassettes</b>		<b>AWSI-CAF012-N11**</b>	<b>AWSI-CAF012-N11</b>	<b>AWSI-CAF018-N11</b>	<b>AWSI-CAF024-N11</b>
Sound pressure level to 1 m (LS/MS/HS)	dB(A)	43/45/47	43/45/47	43/45/47	43/45/47
Sound power level (LS/MS/HS)	dB(A)	53/55/57	53/55/57	53/55/57	53/55/57
Airflow (LS/MS/HS)	m <sup>3</sup> /h	620/720/820	620/720/820	620/720/820	1000/1080/1180
Dehumidification	l/h	1.1	1.1	1.9	2.35
Indoor unit dimensions (WxHxD)	mm	600x230x600	600x230x600	600x230x600	840x260x840
Indoor unit weight	kg	20	20	20	36
Frame dimensions	mm	650x650x50	650x650x50	650x650x50	950x950x60
Frame weight	kg	2.5	2.5	2.5	6.5
<b>Part number</b>		<b>7SP042208</b>	<b>7SP042208</b>	<b>7SP042209</b>	<b>7SP042210</b>
<b>Part number frame</b>		<b>7ACVF0547</b>	<b>7ACVF0547</b>	<b>7ACVF0547</b>	<b>7ACVF0548</b>
<b>Indoor units ducted</b>		<b>AWSI-DAF009-N11</b>	<b>AWSI-DAF012-N11</b>	<b>AWSI-DAF018-N11</b>	<b>AWSI-DAF024-N11</b>
Sound pressure level to 1 m (LS/MS/HS)	dB(A)	34/36/37	36/38/40	38/40/42	40/42/44
Sound power level (LS/MS/HS)	dB(A)	44/46/47	46/48/50	48/50/52	50/52/54
Airflow (LS/MS/HS)	m <sup>3</sup> /h	400/470/550	490/540/600	680/750/840	1220/1350/1400
External static pressure	Pa	25 (0-25)	25 (0-25)	25 (0-25)	25 (0-100)
Dehumidification	l/h	1	1.3	1.9	2.4
Dimensions (WxHxD)	mm	913x680x220	913x680x220	1012x736x266	1270x504x268
Weight	kg	27	27	36	37
<b>Part number</b>		<b>7SP032114</b>	<b>7SP032115</b>	<b>7SP032116</b>	<b>7SP032117</b>
<b>Electronic adaptor between IDU CAF/DAF to ODU GCAO</b>	Part nb.	<b>7ACEL1653</b>			

\* To connect HHF 12, a flare adapter: 1/2" Female x 3/8" Male is mandatory.

\*\* CAF 12 matching with GCAO 9.

# Light Commercial Range

[ MODEL NAME ]

Page

VERTICAL CABINET

VERTICAL AIR CABINET

X AC



104

VERTICAL WATER CABINET

X WC



106

ROOFTOP

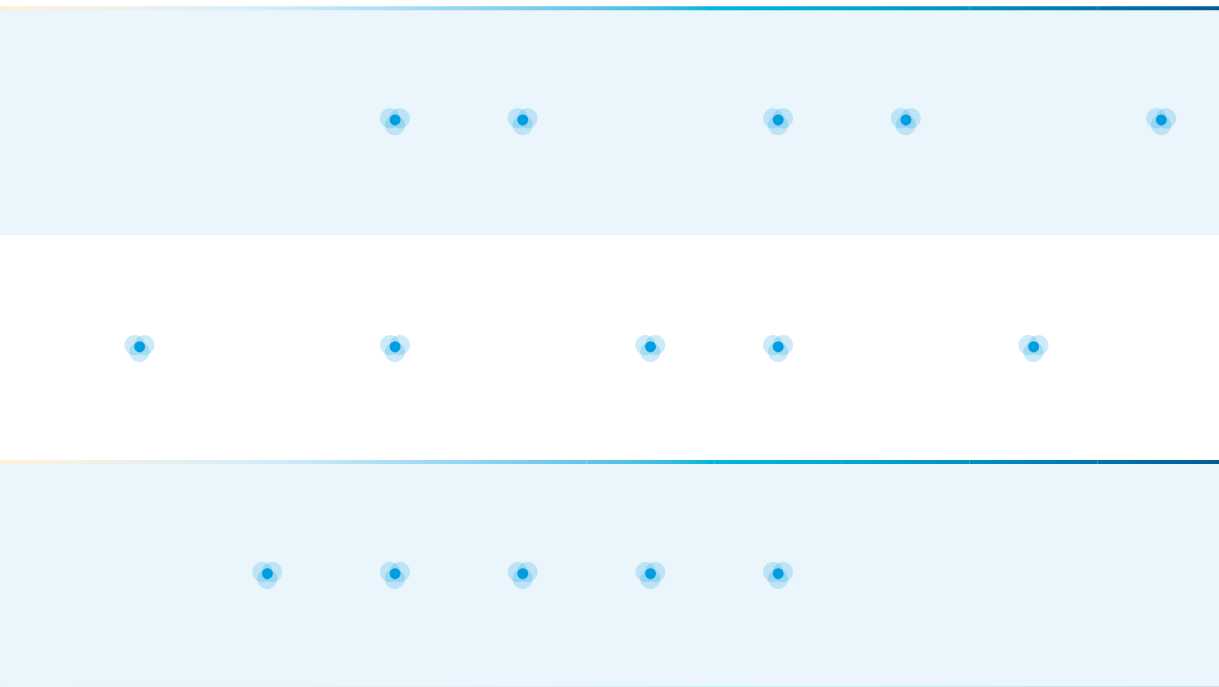
ROOFTOP UNIT

HAN



108

12.5 kW    14 kW    17 kW    19 kW    25 kW    30 kW    40 kW    45 kW    55 kW





## X AC

### VERTICAL AIR CABINET COOLING ONLY

X AC range is fully electromechanical  
 > High reliability

- Cooling capacity: from 16.2 to 55 kW
- Refrigerant: R407C
- Configuration: split system



#### PRODUCT ADVANTAGES

- Easy installation and maintenance.
- Split system with outdoor condenser fan unit.
- Air discharge through duct network or plenum.
- Adjustable available static pressure.
- Temperature control by thermostat on the front of panel or by a remote control (optional).
- Electrical, refrigeration and thermal protection devices.
- Available with or without neutral in 3P/400V/50Hz.

#### MAIN OPTIONS

- Room thermostat.
- Electric heater.
- Hot water heating coil.
- “All season” system (Cooling mode operation down to outdoor temperature of -10°C).
- Remote fault reporting.
- Plenum.
- Duct flange.
- Valves.
- Pipe link: linking pipes up to 10 m (to be mentioned when ordering), with female couplings.

#### OPERATING LIMIT FOR STANDARD UNIT

<b>Indoor unit</b>	
Minimum air temperature (room/intake/around unit)	21°C DB/15°C WB
Maximum air temperature (room/intake/around unit)	32°C DB/23°C WB
<b>Outdoor unit</b>	
Minimum air temperature/with all-season kit	15°C DB/-10°C
Maximum air temperature	50°C DB

## X AC TECHNICAL DATA

Indoor units			X AC 1900	X AC 2450	X AC 3250	X AC 4650	X AC 6450
Outdoor units			CONA 54	CONA 74	CONA 104	CONA 74	CONA 104
<b>PRODUCT CODES</b>							
Indoor units	standard	Code	7XU122077	7XU122078	7XU122079	7XU122080	7XU122081
	without neutral	Code	7XU122230S	7XU122221S	7XU122222S	7XU122224S	7XU122227S
Outdoor units	standard	Code	7XU131026	7XU131027	7XU131028	2 x 7XU131027	2 x 7XU131028
	with all season control	Code	7XU131059	7XU131058	7XU131060	2 x 7XU131058	2 x 7XU131060
	without neutral	Code	On demand	On demand	On demand	On demand	On demand
	without neutral, with all season control	Code	On demand	7XU131064S	7XU131063S	2 x 7XU131064S	2 x 7XU131063S
<b>CAPACITIES</b>							
Cooling	Cooling capacity	kW	16.2	19.8	29.0	38.9	55.0
	Nominal power input Cooling + Ventilation (VS/FV)	kW	7/7.5	8.2/8.9	12.3/13.1	17/19	24.6/26.2
	Nominal power input Electrical Heating + Ventilation (VS/FV)	kW	9.4/9.6	12.5/13	18.7/19.2	23.4/24.3	39.4/41.5
	EER		2.38	2.22	2.3	2.3	2.3
	Cooling circuit		1	1	1	2	2
<b>INDOOR UNIT</b>							
Power supply			400V/3P/N/50Hz				
Ventilation	Available static pressure	Pa	300	200	200	250	290
	Nominal airflow	m <sup>3</sup> /h	3200	4500	5800	9000	12000
	Airflow range (min/max)	m <sup>3</sup> /h	2500/3800	3600/5400	4600/7000	7200/10800	9500/14500
Sound levels	Sound power level	dB(A)	68	75	81	77	85
Dimensions	WxHxD	mm	1000x1735x500	1300x1840x600	1530x1840x600	1715x1970x790	1980x1970x790
	Plenum height	mm	260	350	350	400	400
Weight	Unit weight	kg	182	265	350	525	600
<b>OUTDOOR UNIT</b>							
Condenser unit			1	1	1	2	2
Ventilation	Max. airflow	m <sup>3</sup> /h	7600	8550	14000	8550	14000
	Speed	tr/mn	870				
Sound levels	Sound power level	dB(A)	58	61	73	64	76
Dimensions	WxHxD	mm	885x840x825	1141x840x885	1546x840x885	1141x840x885	1546x840x885
Weight	Unit weight	kg	68	93	130	93	130
Pipe line	Suction pipe diameter	inches	1/2"	5/8"	3/4"	5/8"	3/4"
	Liquid pipe diameter	inches	3/8"	1/2"	5/8"	1/2"	5/8"
	Max length	m	45	45	45	45	45
<b>ACCESSORIES</b>							
Set of female valves	Code	7ACFH0055	7ACFH0056	7ACFH0061	7ACFH0057	7ACFH0060	
Pipe link - Length 10m	Code	7ACFH0211	7ACFH0212	7ACFH0213	7ACFH0214	7ACFH0215	
Electric heater	kW	12	18	22.5	37.5	45	
	Code	On demand	On demand	On demand	On demand	On demand	
Hot water coil	kW	29.7	38.5	50	77	94	
	Code	7ACFH0063	7ACFH0064	7ACFH0118	7ACFH0180	7ACFH0170	
ON/OFF switch and room thermostat	Code	7ACEL0041	7ACEL0032	7ACEL0032	7ACEL0032	7ACEL0032	
"High ventilation"	Code	7ACVF0024	7ACVF0475S	On demand	On demand	On demand	
Remote fault reporting	Code		7ACEL0072	7ACEL0072	7ACEL0071	7ACEL0071	
Air distribution duct frame	Code	7ACVF0102	7ACVF0050	7ACVF0051	7ACVF0052	7ACVF0052	
Total rear air intake duct frame	Code	7ACVF0104	7ACVF0043	7ACVF0044	7ACVF0045	7ACVF0046	
Front air distribution plenum	Code	7ACVF0106	7ACVF0108	7ACVF0109	7ACVF0110	7ACVF0111	
Fresh air supplied	Code	7ACVF0047	-	-	-	-	

## AIRWELL SOLUTIONS





## X WC

### VERTICAL WATER CABINET COOLING ONLY

- Cooling capacity: from 11.7 to 45.7 kW
- Refrigerant: R407C
- Configuration: monobloc system



#### PRODUCT ADVANTAGES

- Easy installation and maintenance.
- Monobloc system.
- Public or recycled water operation.
- Air discharge through duct network or plenum.
- Adjustable available static pressure.
- Temperature control by thermostat on the front of panel or by a remote control (optional).
- Electrical, refrigeration and thermal protection devices.

#### MAIN OPTIONS

- Room thermostat.
- Electric heater.
- Hot water heating coil.
- Remote fault reporting.
- Plenum.
- Duct flange.

#### OPERATING LIMIT FOR STANDARD UNIT

COOLING MODE	
Minimum air temperature	21°C DB/15°C WB
Maximum air temperature	32°C DB/23°C WB
Minimum water temperature	+10°C
Maximum water temperature	+30°C

## X WC TECHNICAL DATA

X WC Model			X WC 1100	X WC 1900	X WC 2450	X WC 3250	X WC 4650
<b>PRODUCT CODES</b>							
400V/3P/50 Hz	With valve	Code	7XU012025	7XU012028	7XU012029	7XU012030	7XU012031
	Without valve	Code	-	-	On demand	On demand	On demand
<b>CAPACITIES</b>							
Cooling	Cooling capacity	kW	11.7	18.0	23.0	32.4	45.7
	Nominal power input Cooling + Ventilation (VS/FV)	kW	3.8/4	5.5/6	7.1/7.8	9.8/10.6	13.9/16
	Nominal power input Electrical Heating + Ventilation (VS/FV)	kW	9.4/9.6	12.5/13	18.7/19.3	23.4/24.3	39.4/41.5
	EER		3.08	3.1	3.24	3.31	3.29
	Cooling circuit		1	1	1	1	2
<b>VENTILATION</b>							
Available static pressure	Pa		200	250	200	250	250
Nominal airflow	m³/h		2000	3200	4500	5800	9000
Airflow range (min/max)	m³/h		1500/2500	2500/3800	3600/5400	4600/7000	7200/10800
<b>HYDRAULIC</b>							
Wasted water	Water flow	m³/h	0.58	0.92	1.45	2	2.8
	Pressure drop	kPa	22	18	42	40	18
Recycled water	Water flow	m³/h	2.1	3.4	4.3	5.8	8.3
	Pressure drop	kPa	50	70	60	40	56
<b>SOUND LEVELS</b>							
Sound power level	dB(A)		65	67	74	80	76
<b>POWER SUPPLY</b>							
Power supply			400V/3P/50 Hz				
<b>DIMENSIONS</b>							
WxHxD	mm		890x1540x430	1000x1735x500	1300x1840x600	1530x1840x600	1715x1970x790
Plenum height	mm		220	260	350	350	400
<b>WEIGHT</b>							
Unit weight	kg		151	199	305	380	565
<b>ACCESSORIES</b>							
Electric heater	kW		9	12	18	22.5	37.5
	Code		On demand	On demand	On demand	On demand	On demand
Hot water coil	kW		15.5	29.7	38.5	50	77
	Code		7ACFH0062	7ACFH0063	7ACFH0064	7ACFH0118	7ACFH0180
ON/OFF switch and room thermostat	Code		7ACEL0041	7ACEL0041	7ACEL0032	7ACEL0032	7ACEL0032
"High ventilation"	Code		7ACVF0023	7ACVF0024	-	-	-
Sum heating resistance	Code		7ACEL0029	included	-	-	-
Remote fault reporting	Code		-	-	7ACEL0072	7ACEL0072	7ACEL0071
Air distribution duct frame	Code		7ACVF0101	7ACVF0102	7ACVF0050	7ACVF0051	7ACVF0052
Total rear air intake duct frame	Code		7ACVF0041	7ACVF0104	-	-	-
Front air distribution plenum	Code		7ACVF0105	7ACVF0106	7ACVF0108	7ACVF0109	7ACVF0110
Fresh air supplied	Code		7ACVF0047	7ACVF0047	-	-	-

## AIRWELL SOLUTIONS







# HAN

## ROOFTOP UNIT COOLING AND HEATING MODE

- Cooling capacity: from 13 to 31 kW
- Heating capacity: from 12.1 to 30.5 kW
- Refrigerant: R410A
- Configuration: compact monobloc system

### PRODUCT ADVANTAGES

- Weather resistant casing with external panels and drain pan coated with powder-based epoxy paint colour RAL 7040.
- Base rail with forklift slots to facilitate transportation and handling.
- Technical compartment independent from airstreams allowing service works to be performed without disturbing the unit operation.
- High EER and environmentally friendly refrigerant R410A with zero ODP (Ozone Depleting Potential).
- High efficiency Scroll compressor with crankcase heater.
- Condenser coils with hydrophilic coated fins to improve removal of water droplets during defrost cycles.
- Standard microprocessor-based control by CAC controller.

### MAIN OPTIONS

- Factory-fitted low ambient temperature control to ensure cooling operation down to -10°C outdoor temperature (All-season).
- Electric heater.

### MANDATORY ACCESSORIES

- Synthetic air filter.
- Programmable controller RCW2 to control up to 15 units with independent set points and programming.

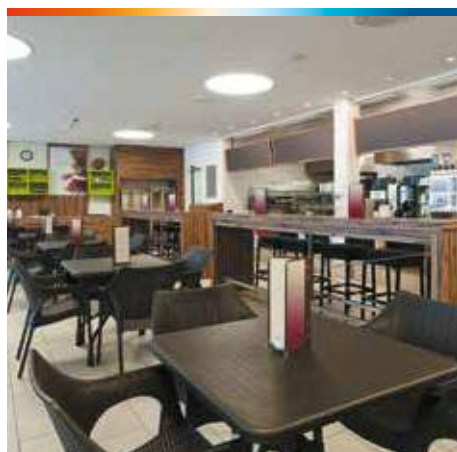
### OPERATING LIMIT FOR STANDARD UNIT

Cooling mode	
Minimum indoor air temperature	21°C DB/15°C WB
Maximum indoor air temperature	32°C DB/23°C WB
Minimum outdoor air temperature/with all-season kit	15°C DB/-10°C
Maximum outdoor air temperature	50°C DB
Heating mode	
Maximum indoor air temperature	27°C DB
Minimum outdoor air temperature	-10°C
Maximum outdoor air temperature	24°C (16°C for HAN 25)

## HAN TECHNICAL DATA

HAN Model		HAN 13	HAN 15	HAN 17	HAN 19	HAN 25	HAN 31	
<b>PRODUCT CODES</b>								
Standard	Code	7HL023002	7HL023003	7HL023004	7HL023005	7HL023006	7HL023007	
With all season control	Code	7HL023009	7HL023010	7HL023011	7HL023012	7HL023013	7HL023014	
<b>RATED CAPACITIES</b>								
Cooling	Cooling capacity	kW	13.0	14.5	16.8	18.9	25.4	31.0
	Rated power input	kW	4.5	4.9	6.0	6.5	8.3	10.0
	EER		2.88	2.95	2.8	2.9	2.95	3.1
Heating	Heating capacity	kW	12.1	14.2	15.8	19.0	24.2	30.5
	Rated power input	kW	4.3	4.5	5.7	6.0	8.8	9.5
	COP		2.8	3.1	2.7	3.1	2.75	3.2
<b>VENTILATION</b>								
Available static pressure	Pa	100	170	160	210	240	250	
Airflow	Indoor fan	m³/h	2640	2940	3190	3860	4780	5530
	Outdoor fan	m³/h	9000	9000	9000	9000	12000	12000
<b>SOUND LEVELS</b>								
Sound power level (Indoor)	dB(A)	79.3	79.3	79.3	83.1	84.9	86.4	
Sound power level (Outdoor)	dB(A)	75.0	75.0	75.0	72.7	78.2	82.7	
<b>POWER SUPPLY</b>								
Power supply		400V/3P/50 Hz						
<b>DIMENSIONS</b>								
WxHxD	mm	1320x1345x905	1320x1345x905	1320x1345x905	1320x1345x905	1420x1445x1320	1420x1445x1320	
<b>WEIGHT</b>								
Unit weight	kg	219	223	223	243	320	343	
<b>MANDATORY ACCESSORIES</b>								
Air filter	Code	7ACVF0481	7ACVF0481	7ACVF0481	7ACVF0481	7ACVF0482	7ACVF0482	
Remote control RCW2	Code	7ACEL1212	7ACEL1212	7ACEL1212	7ACEL1212	7ACEL1212	7ACEL1212	
<b>OPTION</b>								
Electric heater	kW	9	9	12	12	12	12	
	Code	7ACEL1217	7ACEL1217	7ACEL1219	7ACEL1219	7ACEL1219	7ACEL1219	




## AIRWELL SOLUTIONS



CAPACITY (HP)

[ MODEL NAME ]      Capacity HP      Power supply      Page      Cooling (kW)      Heating (kW)

MINI FLOW LOGIC II

	<b>NEW</b> 5	3PH 400 V-N	122		
	6	3PH 400 V-N	122		
	10	3PH 400 V-N	122		

FLOW LOGIC II

	10	3PH 400 V-N	126		
	<b>NEW</b> 12	3PH 400 V-N	126		
	14	3PH 400 V-N	126		
	16	3PH 400 V-N	126		

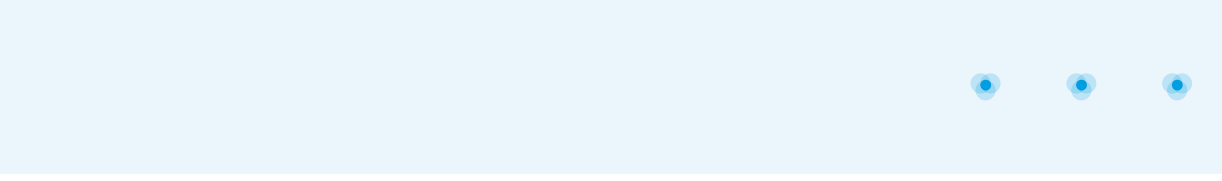
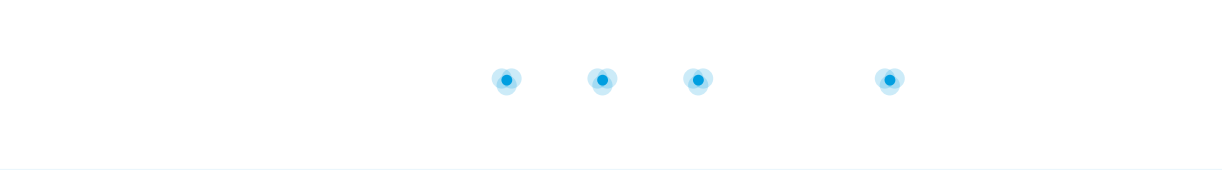
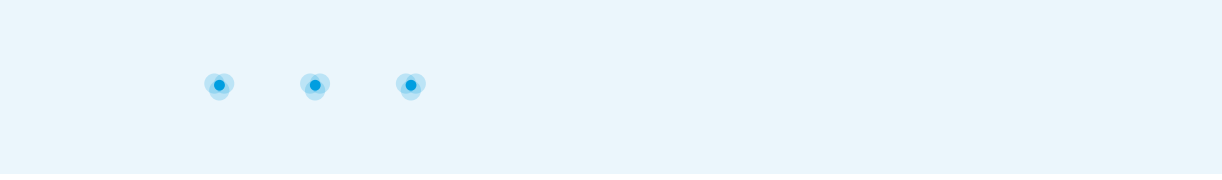
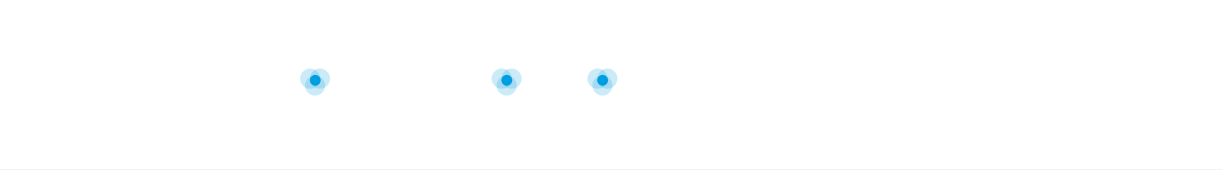
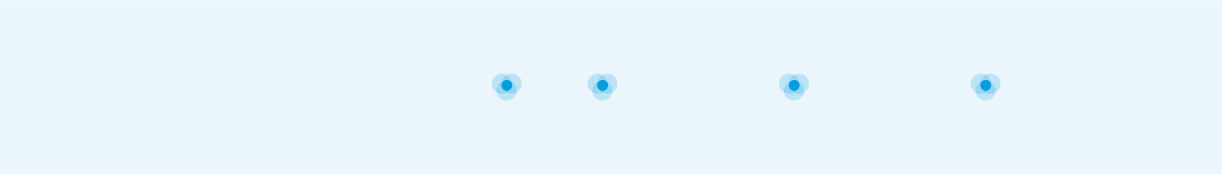
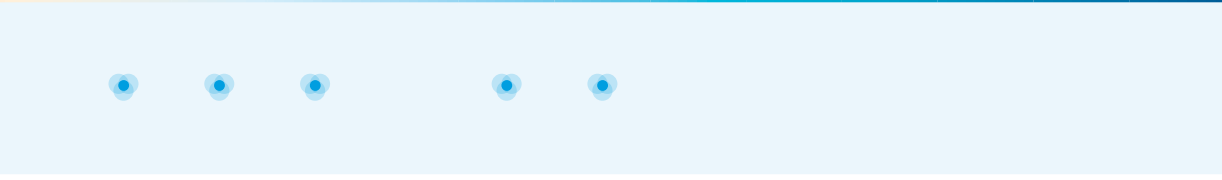
**VRF Range**  
Outdoor units

	5	6	10	12	14	16	20	24	26	28	30	32	34	36	38	40	42	46	48
	15.0	18.0	28.0	33.5	40.0	45.0	56.0	68.0	73.0	80.0	85.0	90.0	96.0	101.0	108.0	113.0	118.0	130.0	135.0
	17.0	20.0	31.5	37.5	45.0	50.0	63.0	76.5	81.5	87.5	95.0	100.0	108.0	113.0	119.0	126.5	131.5	145.0	150.0
x1	•																		
		x1																	
			x1																
			x1				x2	x1	x1				x2	x2	x1	x1	x1		
				x1				x1		x2	x1		x1		x2	x1			x1
					x1			x1		x2	x1		x1		x2	x1			x1
						x1			x1		x2			x1		x1	x2	x2	x3

[ MODEL NAME ]			Page	CAPACITY (HP)	
				Cooling (kW)	Heating (kW)
HIGH WALL	<b>HAV</b>		142		
CASSETTE 600X600	<b>CBV</b>		143		
CASSETTE 900X900	<b>CCV</b>		144		
FLOOR CEILING	<b>FAV</b>		145		
DUCTED LOW STATIC PRESSURE	<b>DAV</b>		146		
DUCTED MEDIUM STATIC PRESSURE	<b>DBV</b>		147		
DUCTED HIGH STATIC PRESSURE	<b>DCV</b>		148		
CONSOLE	<b>EAV</b>		149		

**VRF Range**  
Indoor units

7	9	12	16	18	24	28	30	38	48	72	96
<b>2.2</b>	<b>2.8</b>	<b>3.6</b>	<b>4.5</b>	<b>5.6</b>	<b>7.1</b>	<b>8</b>	<b>9</b>	<b>11.2</b>	<b>14</b>	<b>22.6</b>	<b>28</b>
<b>2.2</b>	<b>2.8</b>	<b>3.6</b>	<b>4.5</b>	<b>5.6</b>	<b>7.1</b>	<b>8</b>	<b>9</b>	<b>11.2</b>	<b>14</b>	<b>25</b>	<b>31.5</b>



# FlowLogic II, high performance system ultra modularity, multi applications

FlowLogic II is a range of variable refrigerant flow (VRF) solutions for heating and air conditioning applications including of two innovative systems each utilising high performance R410A refrigerant.

This range is unmatched by anything on the market and can independently control **up to 64 indoor units**, offering a capacity from 5 to 16 HP (15 to 135 kW). The DC Inverter technology means that these systems achieve remarkable energy efficiency:

- COP up to 4.
- Ultra silent operation.
- Compact footprint.

This range of products is adapted to numerous applications: residential, small businesses, major office complexes, shopping centers or hotels etc: and this is thanks to its numerous technical assets such as:

- A range of 3 phases units.
- Significant refrigerant pipe lengths and height differences.
- Minimum outdoor temperature for heating mode operation: -15°C.
- Heating or cooling.

## HIGH PERFORMANCE SYSTEM

- Significant energy savings → direct impact on their fuel bills.
- High performance system → guarantees optimal comfort all year round.
- Simplicity of the installation procedure → installer benefits.
- Number of tools (software and documents) → make it easier to calculate the dimensions of the system.

## OPTIMAL ENERGY SAVINGS – GOOD FOR THE ENVIRONMENT

The energy efficiency of the FlowLogic II range is exceptional thanks to the use of DC Inverter compressors and the use of variable speed fan motors. Therefore for 1 kW of electricity used by the system, up to 4 kW of heat output is generated. As the units operate using R410A, the entire range of products contributes to the preservation of the environment (high performance “green” fluid, recyclable and harmless to the ozone layer, reduction in energy consumption) within the framework of the Renewable Energy plan.

## SILENT OPERATION

The Twin Rotary and Scroll DC Inverter compressors are fitted across the entire FlowLogic II range producing a significant reduction in noise levels and vibrations that guarantees silent running.

## A COMPLETE RANGE OF INDOOR UNITS AND CONTROL DEVICES

All indoor units and control devices are the same across the two systems of the Airwell Mini FlowLogic II and FlowLogic II range.



CASSETTE 600x600  
CBV



CASSETTE 900x900  
CCV



FLOOR CEILING  
FAV



CONSOLE  
EAV



HIGH WALL  
HAV



DUCTED MEDIUM STATIC  
PRESSURE DBV



DUCTED LOW STATIC  
PRESSURE DAV



DUCTED HIGH STATIC  
PRESSURE DCV



HEAT RECOVERY  
UNIT DOUBLE FLOW  
EXCHANGER HRV  
(see page 42)



## FEATURES

### USE HIGH EFFICIENCY DC INVERTER SCROLL COMPRESSOR, HIGH EFFICACY, LOW NOISE

The highly efficient Scroll compressor is equipped with a “Framen Compliance Mechanism” that allows movement in the axial direction of the frame supporting the cradle Scroll. This greatly reduces both leakage and friction loss, ensuring very high efficiency throughout the speed range.



### NEW BIG DIAMETER “AVIATION” FAN

The new fan could reduce air loss, air resistance and noise, increase heat exchange efficiency adopt the 4-way air return heat exchanger technology; the compressor and condenser are placed in separated compartments; this structure of outdoor unit can realize lower air resistance, higher heat efficiency and lower noise level.



### HIGH EFFICIENCY DC FAN MOTOR

The speed of wide range DC fan motor can be adjusted from 0 to 1000 tr/min. Compared to conventional AC motors, a DC fan motor offers greater operating efficiency, especially during low speed rotation. The efficiency could be 90%.



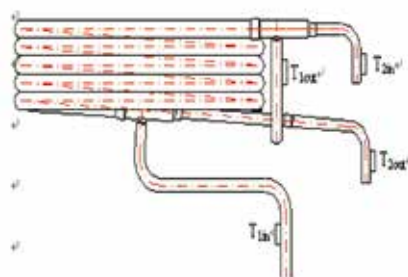
### EFFICIENT EXCHANGER

W-model Ø8 innergrooved tube; hydrophilic aluminium coil fin it will increase efficiency of heat exchange by 5%.



## HEAT EXCHANGER ADOPTS THE SUBCOOLING TECHNOLOGY, TO KEEP THE REFRIGERANT IN INDOOR UNIT FLOWING NORMALLY, FURTHER TO ENHANCE THE UNIT EFFICIENCY GREATLY.

Outdoor adopts the subcooling circuit utilizes little refrigerant to cool most of refrigerant in system, and makes it further cooling, improves subcooling degree of refrigerant, it can avoid energy loss due to refrigerant flash evaporating when it goes through PMV; it will increase cooling capacity by 6%, reduce refrigerant circulation amounts, so that it can increase the efficiency of system.

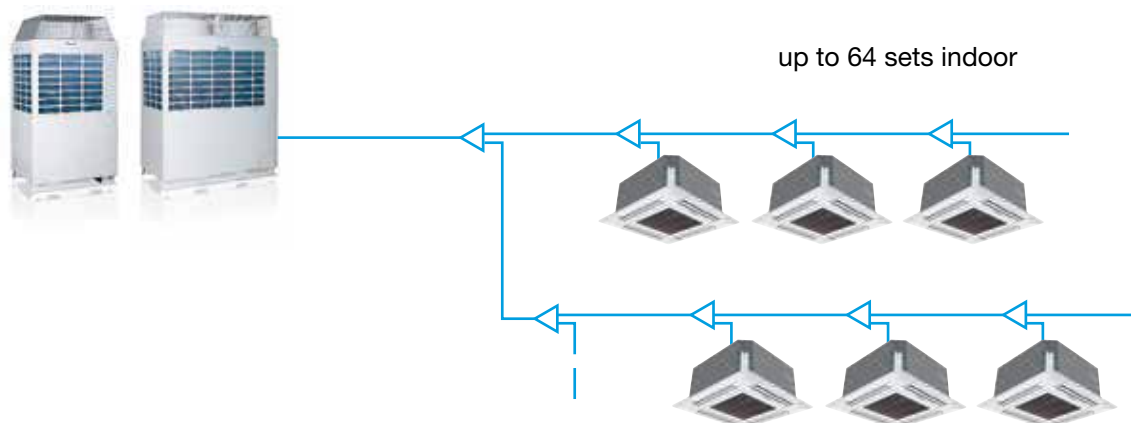


## FLEXIBLE INSTALLATION AND DESIGN

Indoor quantity can be up to 64 sets in maximum. And the indoor total capacity can be 50%-130% of outdoor capacity.

If there are multiple outdoors, the outdoors will be in running by turns, much longer life.

Multiple types of indoor can be chosen for different requirements.



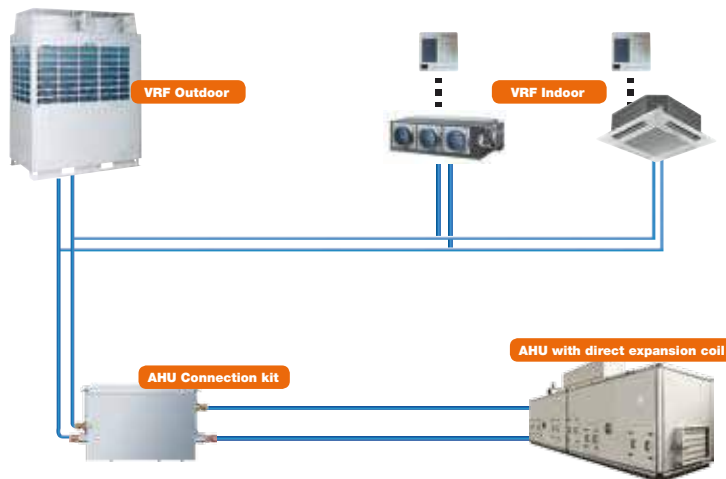
## MORE OPTIONAL OUTDOOR CAPACITY

The basic outdoor unit can be combined as the standard modular. The combined outdoors will get the capacity at the interval of 48 HP.

## AHU CONNECTION KIT

### SYSTEM INTRODUCTION

Airwell offers a range of connection kit to connect VRF outdoor units to third party DX air handling units.



### SYSTEM APPLICATION

- Provide a solution for big space to cool down the supply fresh air with VRF outdoor units to match the air handling units. Integrated the advantages of VRF and AHU units.
- Meet the requirement of law in EU, that for every working place it have to supply at minimum 25 m<sup>3</sup>/h fresh air.so it means that every office, every shop and mostly every commercial building MUST have this solution, in order to correspond to the standard.



High rise building without podium








High rise building with podium



Single layer with a large area

### SYSTEM LINE UP

Airwell provides a wide range of VRF outdoor, valve box and Super Match Indoor solution.

VRF Outdoor	<p>FlowLogic II</p>  <p>10/12/14/16 HP</p>	<p>Mini FlowLogic II</p>  <p>10 HP</p>
Valve Box	<p>7ACELH015</p>  <p>5 HP (14 kW) &lt; Connected AHU capacity ≤ 10 HP (28 kW)</p>	<p>7ACELH016</p>  <p>10 HP &lt; Connected AHU capacity ≤ 20 HP (56 kW)</p>
AHU & VRF indoor	 <p>High Wall, Cassettes (600x600, 900x600), Floor Ceiling, Console, Ducted Medium/Low/High Static Pressure, Heat Recovery Unit, Double Flow Exchanger, HRV.</p> <p>AHU and direct expansion coil need purchase in Market</p>	

### AHU KIT CONFIGURATION

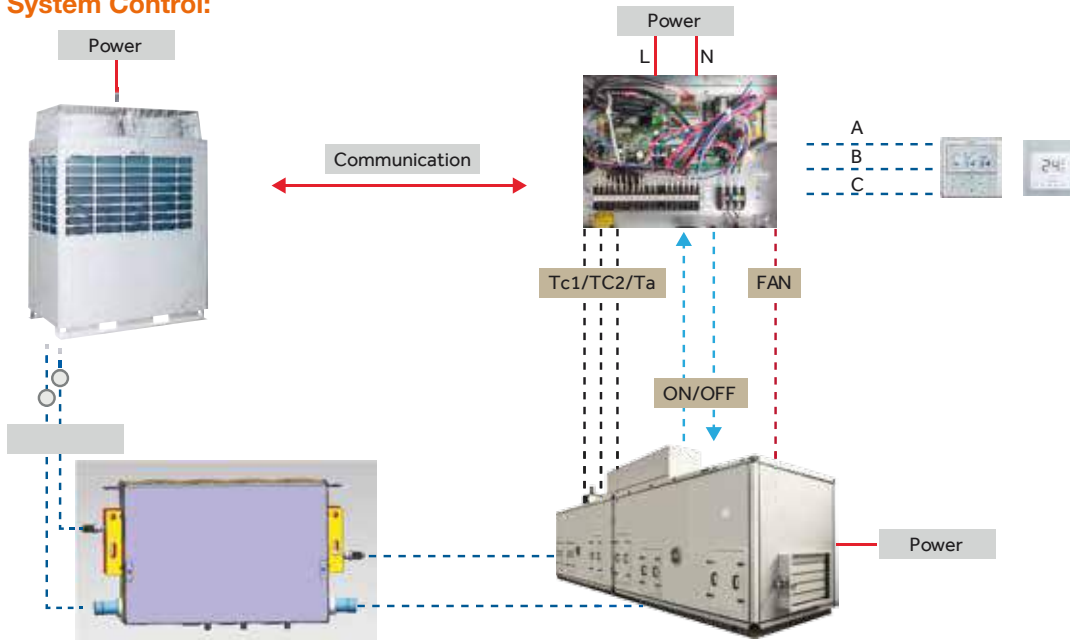
Airwell AHU Connection Kit consists the following 4 parts:



- EXV part, Control part, Sensor and wire are all integrated in one box.
- Controller need to be purchased separately.

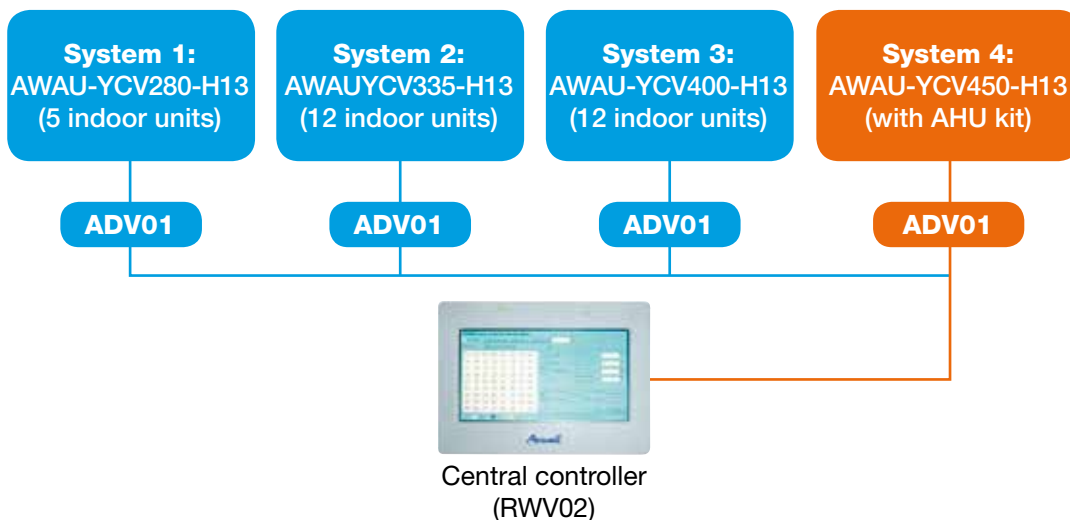
### AHU CONNECTION KIT CONTROL

#### System Control:



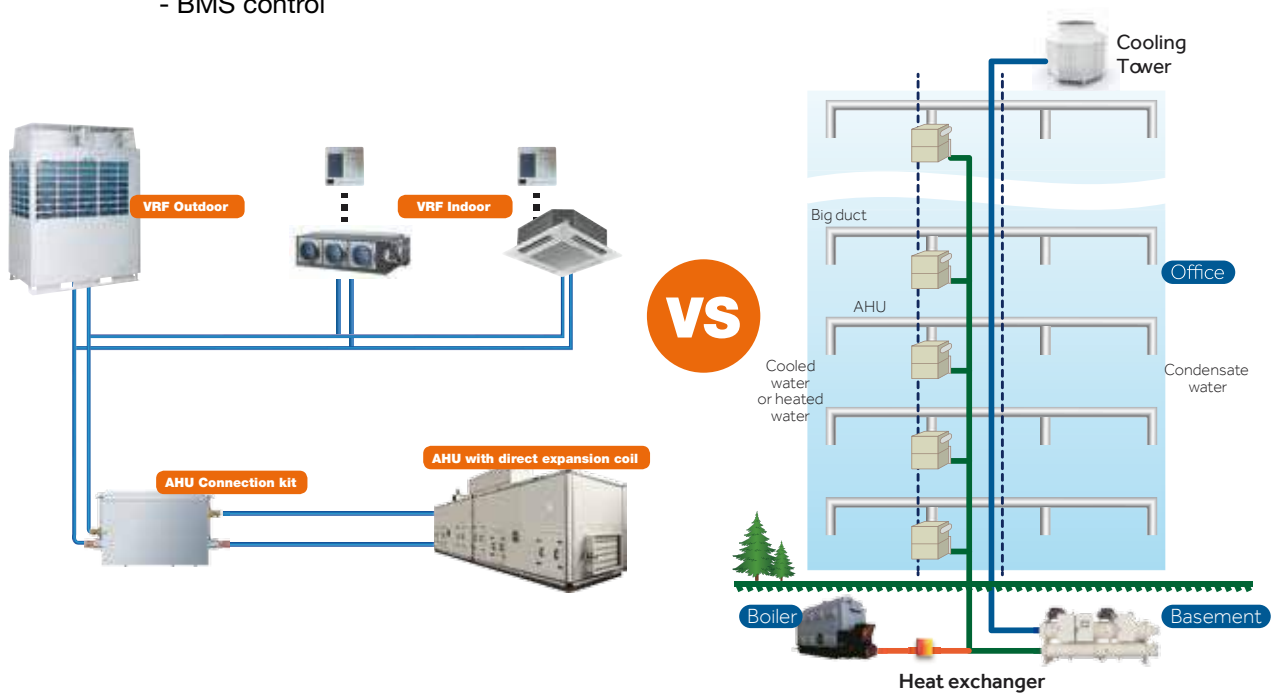
### CONNECTION KIT CONTROL



Central Control: AHU control is same as VRF indoor unit control.

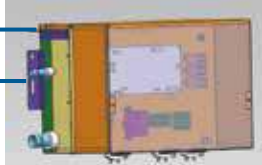





**Easy Installation**



- Adopting the VRF outdoor, not the traditional chiller outdoor system, is easy to design and install since no additional water system such as boilers, gas connections, cooling tower etc. are required. This also reduces the total system cost.
- AHU can provide enough cooled fresh air to big space other than HRV and fresh air indoor units.
- All the control system for VRF outdoor is available:
  - Wired control
  - Central control
  - Net work control
  - BMS control



<p>EXV part and Control part integration, easy for translation and installation. Gas pipe is integrated into the valve box.</p>	<p style="text-align: center;">Gas pipe need welding.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Airwell</p>  </div> <div style="text-align: center;"> <p>Traditional</p>  </div> </div>
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<p>Optional installation location EEV box inlet and outlet pipe can be left or right.</p>	<p style="text-align: center;">Installation can choose lifting or nailed to the wall.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Hang</p>  </div> <div style="text-align: center;"> <p>Nail to the wall</p>  </div> </div> <p style="text-align: center; font-size: 2em; font-weight: bold;">OR</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>
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## ADVANTAGES

Broad capacity	Connected AHU capacity from 5HP to 20HP.
High Compatible	<ol style="list-style-type: none"> <li>1. Same PCB board with VRF indoor, easy operation and service.</li> <li>2. Same wired controller can be used with VRF indoor unit.</li> </ol>
Reliable EEV	<p>EEV is supplied by FUJIKOKI.</p> <div style="display: flex; justify-content: center; gap: 20px;">   </div>

## SPECIFICATION

Model		7ACELH015	7ACELH016
Connected AHU capacity	kW	14 ≤ x ≤ 28 (5-10 HP)	28 < x ≤ 56 (10-20 HP)
Power supply		220-240V/50/60Hz	380V/50/60Hz
Dimensions (WxDxH)	mm	226x351x154	296x460x243
Material		Galvanized steel	Galvanized steel
Color		Grey	Grey
Weight	kg	7	10
Liquid pipe	inches	3/8" (main) - 1/2"	3/8" (main) - 1/2"
Gas pipe	inches	1" (main) - 7/8" - 3/4"	1"1/8 (main) - 1" - 7/8"
Pipe connection method		welding	welding

## VRF OUTDOOR LINE UP

OUTDOOR	MINI FLOW LOGIC II	FLOW LOGIC II			
	Modèle	AWAU-YCVFD280-H13	AWAU-YCV280-H13	AWAU-YCV335-H13	AWAU-YCV400-H13
					
HP	10	10	12	14	16
kW	28	28	33.5	40	45
Power supply	3/380~400/50 3/380~400/60		3/380~400/50 3/380~400/60 3/220/60 3/460/60		



# MINI FLOWLOGIC II

## 2-WAY



Three phase outdoor unit, 5 HP, 6 HP and 10 HP class, designed for residential use or for light commercial use.

### [ PRODUCT ADVANTAGES ]

- COP can reach 4.2
- Three phase electrics
- Compact (0.32 m<sup>2</sup> footprint)
- Minimum outdoor temperature for heating mode operation -15°C
- Minimum outdoor temperature for cooling mode operation -5°C
- DC Inverter compressor and ventilator
- Refrigerant simple pipe length up to 150 m
- 5 HP: up to 8 units can be connected
- 6 HP: up to 9 units can be connected
- 10 HP: up to 16 units can be connected

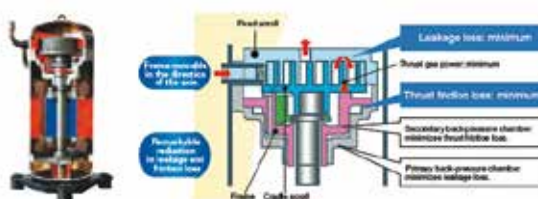


### DC FAN MOTOR

DC fan motor speed can be adjusted from 0~1000 r/min, it can improve the unit efficiency, at the same time, the unit can realize low ambient cooling operation.

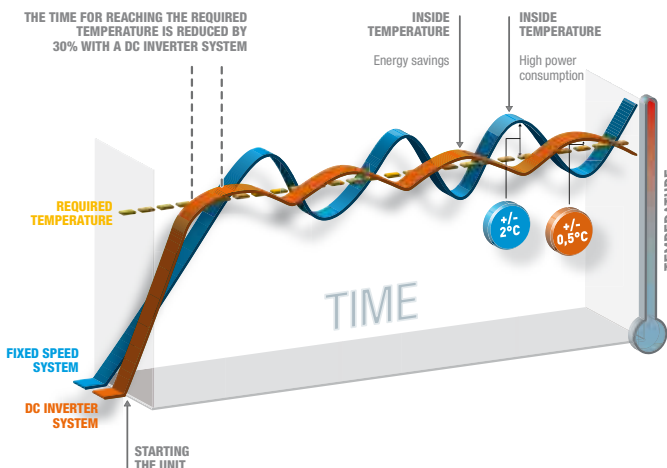
### HIGHLY EFFICIENT DC SCROLL COMPRESSOR

The highly efficient Scroll compressor is equipped with a “Flexible Mechanism” that allows movement in the axial direction of the frame supporting the cradle Scroll. This greatly reduces both leakage and friction loss, ensuring very high efficiency throughout the speed range.



### DC INVERTER TECHNOLOGY

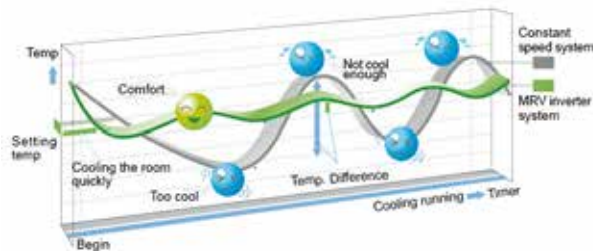
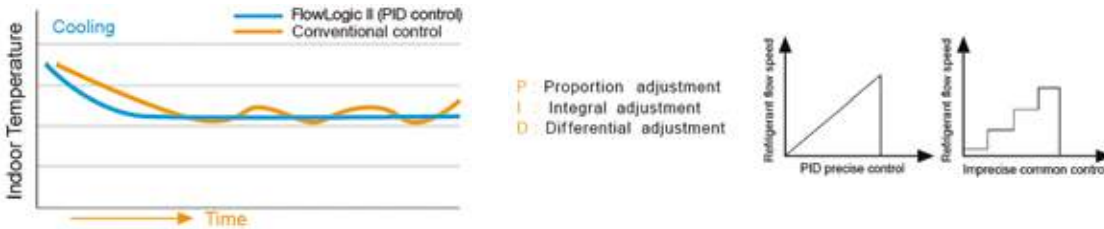
DC Inverter motor. High efficiency. Low vibration, low noise. High reliability.



## PRECISE CONTROL

### PID CONTROL

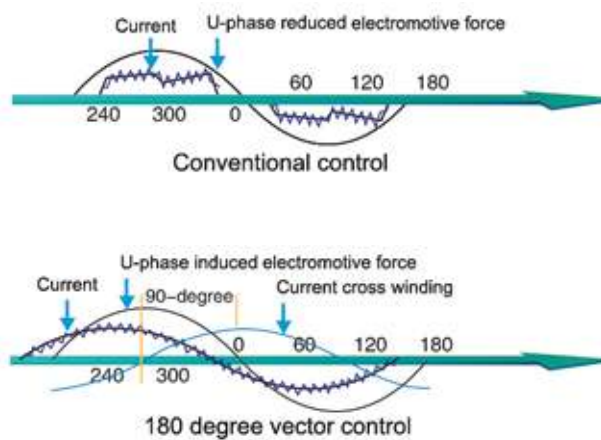
PID control adjusts the output of compressor and the open degree of EEV, balances the indoor refrigerant flow, realizes the linear output, creates a comfortable environment. The temperature could be controlled precisely.



## 180 DEGREE VECTOR CONTROL TECHNOLOGY

### FEATURES

Airwell using power resistance to detect the rotor position of compressor, results in the consistency of the compressor working current and current sine waves, improve power efficiency about 17%.

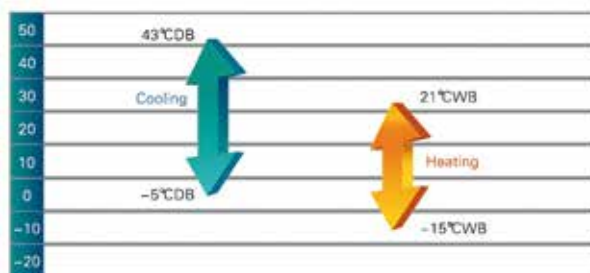




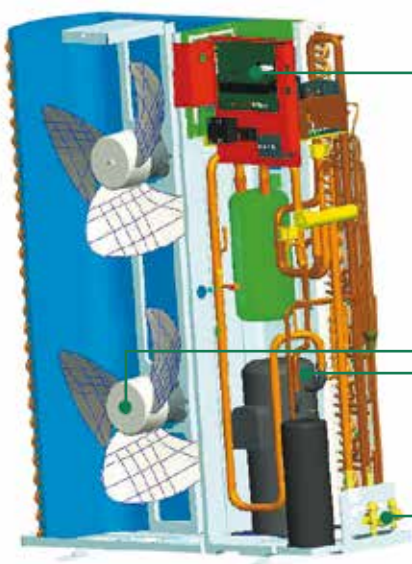
## OPERATION RANGE

Mini FlowLogic II series permits a system design considering a heating range operation under a low temperature condition from -15°C of previous model and a cooling range operation -5°C.

For the capacities under low temperature conditions, please see technical data sheets.

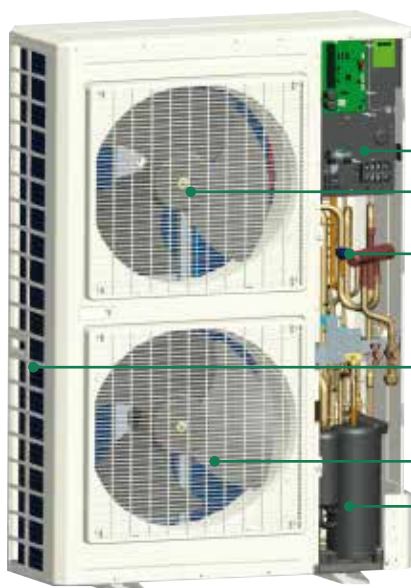


## CONTROL AND SAFETY



### 5 HP / 6 HP

- Control compressor running frequency by temp. Sensor, more precise and prompt than conventional control system.
- Protections: pressure, temp., compressor, fan motor, refrigerant, oil quantity etc. Realize perfect performance.
- Malfunction self-diagnose.
- DC fan motor (YCV 150 / YCV 180).
- DC Inverter compressor, high efficiency.
- Single set valve, easy to installation and save installation time.



### 10 HP

- **Vector inverter control:** 180 degrees sine wave vector control, 64-bit operation; high precision control, to achieve high efficiency and lower noise.
- **High efficiency DC Fan Motor:** DC fan motor with stepless inverter control, efficiency increase 45% comparing with AC motor and power input largely decrease.
- **Double pressure sensor:** Equipped with high and low voltage; pressure double sensors; accurate pressure control, the system run more smoothly, more energy efficient.
- **High efficiency Condenser:** new type high efficiency Ø8 inner grooved tube; new hydrophilic corrugated fissure fin, high efficiency.
- **Large diameter fan:** 570 mm big diameter axial flow fan; zigzag design, reduce airflow disturbance, air volume is bigger, the noise is lower.
- **Twin Rotary DC Inverter Compressor:** high chamber DC INVERTER twin rotary compressor; small vibration, low noise, high energy efficiency.

## MINI FLOWLOGIC II TECHNICAL DATA

Outdoor units		AWAU-YCV150-H13	AWAU-YCV180-H13	AWAU-YCVFD280-H13
Code		7SP14H102	7SP14H013	7SP14H011
<b>RATED CAPACITY</b>				
Cooling	kW	15	18	28
Heating	kW	17	20	31.5
<b>ELECTRICAL PARAMETERS</b>				
Power supply	Ph/V/Hz	3P/400/50-N	3P/400/50-N	3P/400/50-N
Cooling Rated power input	kW	4.2/5.8	5.5	8
Heating Rated power input	kW	4.0/5.8	5.25	7.5
EER/COP		3.41/4.06	3.27/3.8	3.5/4.2
Max current	A	9.6	11.3	23.4
<b>PERFORMANCE</b>				
Airflow (HS)	m³/h	6500	6500	10000
Noise level (HS)	dB(A)	59	60	58
<b>INSTALLATION</b>				
External dimensions (WxHxD)	mm	948x1250x340	948x1250x340	1050x1636x400
Shipping dimensions (WxHxD)	mm	1094x1400x410	1094x1400x410	1150x1790x510
Net/Shipping weight	kg	118/128	130/140	168/183
Compressor type		Scroll	Rotary	Scroll
Refrigerant type		R410A	R410A	R410A
Refrigerant charge	kg	4.4	5.0	7.4
Refrigerant liquid pipe	inches	3/8"	3/8"	1/2"
Refrigerant gas pipe	inches	3/4"	3/4"	7/8"
Max pipe length	m	50	100	300
Max drop between indoor & outdoor*	m	30/20	30/20	50
Maximum indoor units connectable	quantity	8	9	16
<b>WORKING TEMPERATURE</b>				
Cooling	°C	-5/43	-5-43	-5-43
Heating	°C	-15/21	-15-21	-15-21

\* 30 m if the outdoor unit is above indoor unit, 20 m if the outdoor unit is below indoor unit.

## AIRWELL SOLUTIONS





# FLOWLOGIC II

## 2-WAY



Composed of DC Inverter models 10, 12, 14 & 16 HP, this new generation of units enables a capacity range from 10 to 48 HP to be covered by combining up to 3 units. This range offers noise pressure levels that vary between 57 and 60 dB(A) without a silent mode, this range one of the quietest on the market.



### PRODUCT ADVANTAGES

- The whole range is DC Inverter
- Capacity range from 10 to 48 HP
- COP average of 3.9
- COP can reach 4.1, which is a 15% COP increase in relation to the previous range
- 12% increase in EER in relation to the previous range
- 40 indoor units connectable from 24 HP to only 2 outdoor units
- Minimum outdoor temperature of heating mode operation -15°C
- DC Inverter fan
- Silent mode: -8 dB(A)
- Power ratio 130%
- Indoor units identical to the Mini FlowLogic R410A range
- Control device identical to the Mini FlowLogic R410A range
- Unit dimensions optimised
- De-icing between outdoor units
- Lead lag operation to maintain equal operating time
- Wide range of control systems (wireless control devices, touch screen central controller, BMS gateway)

## Efficiency

### DC INVERTER COMPRESSOR HIGH EFFICIENCY



Use high efficiency DC Inverter Scroll or rotary compressor, high efficiency, low noise.

Note: not only use DC Inverter compressor, some models also use fix speed compressor, pls. refer to the service manual details.

### DC FAN MOTOR

The speed of the wide range DC fan motor can be adjusted from 0 to 1000 r/min.



Compared to conventional AC motors, a DC fan motor offers greater operating efficiency, especially during low-speed rotation. The efficiency could be 90%.

## EFFICIENT STRUCTURE

### → New big diameter “aviation” fan

This new fan could reduce air loss, air resistance and noise, increase heat exchange efficiency.



### → 4-way air return heat exchanger technology

The 4-way air return.

The compressor and condenser are placed in separated compartments.

This structure of outdoor unit can realize lower air resistance, higher heat efficiency and lower noise level.

## STATIC PRESSURE

### → Up to 80 Pa.

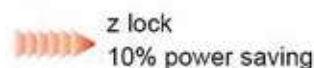


## ENERGY SAVE LOCK FUNCTION

### → 26°C in cooling mode, 20°C in heating mode, lock function, save operation cost.

Setting temperature fixed to 26°C, the air conditioner operation cost can reduce 10%.

At the same time, the 26°C is healthy to the human body.



## EFFICIENT PARTS

### SUB-COOLING CIRCUIT

Sub-cooling circuit utilizes little refrigerant to cool most of refrigerant in system, and makes it a further cooling, improves sub-cooling degree of refrigerant, in can avoid energy loss due to refrigerant flash evaporating when it goes through PMV.

It will increase cooling capacity by 6%, reduce refrigerant circulation amounts, so that it can increase the efficiency of system.



### EFFICIENT EXCHANGER

W-model Ø8 inner grooved tube.

Hydrophylic aluminium coil fin.

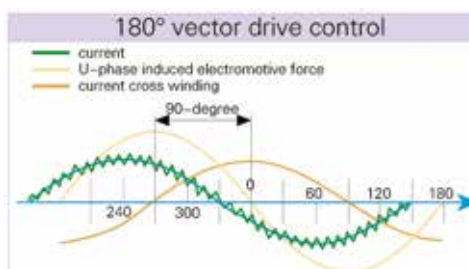
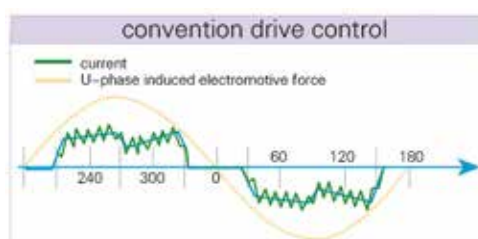
It will increase efficiency of heat exchange by 5%.



## ADVANCE CONTROL TECHNOLOGY

### 180° VECTOR DRIVE CONTROL TECHNOLOGY

Using the power resistance to detect the position of rotor in compressor, so that the operation current of compressor close to sine wave easily.



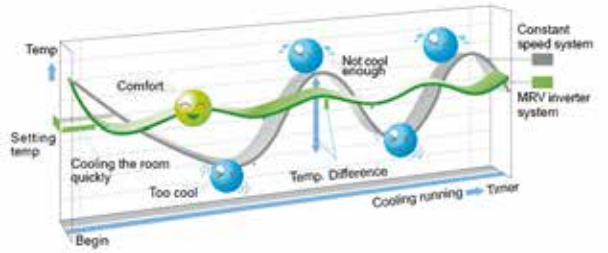
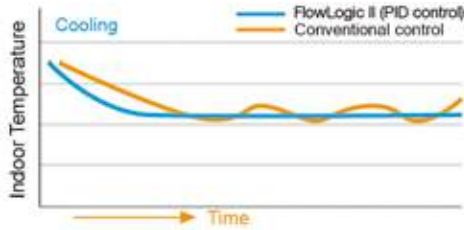
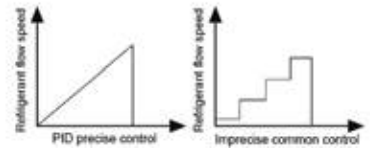
# Comfort

## PRECISE CONTROL

### PID control

PID control adjusts the output of compressor and the open degree of EEV, balances the indoor refrigerant flow, realizes the linear output, creates a comfortable environment. The temperature could be controlled precisely.

- P Proportion adjustment
- I Integral adjustment
- D Differential adjustment



# Control

## REMOTE CONTROL

### Variable control mode



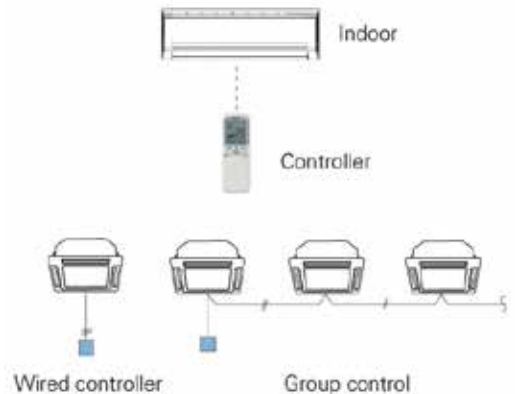
RCV01

Wireless remote controller (standard for wall mounted and console type).  
→ Realize standard control function.



RWV01

Wired and group controller (standard for cassette, convertible and duct type).  
→ Max 16 indoor units (all the indoor units work in the same mode).  
→ Realize master & slave control using 2 controller.  
→ Set ON/OFF time.



### Simple controller (optional)



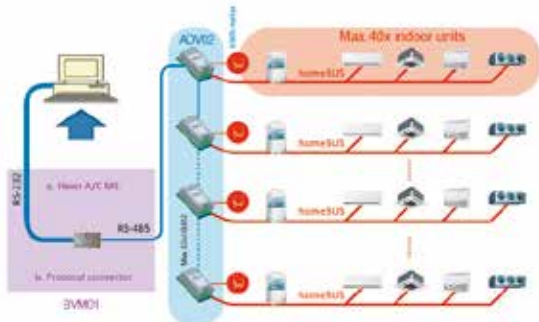
RWV03

→ Max 16 indoor units (all the indoor units work in the same mode).  
→ Set ON/OFF time.  
→ Mode selection: cool/heat/fan.  
→ Temperature setting.  
→ Failure code display.

## BMS CONTROL

### BMV01 Simple Airwell A/C management system

- RS-485 communication length is max 1000m.
- Total connected indoor units quantity is limited 400.
- Energy pulse meter is optional.



### BMV03 Network Airwell A/C management system

- Total actual connected indoor units quantity is max 1000.
- Internet remote control.
- Separate purchase parts by dealers/customers:
  - computer display;
  - energy pulse meter and printer if calculating the power consumption requested.
- Interface: BACnet and modbus.



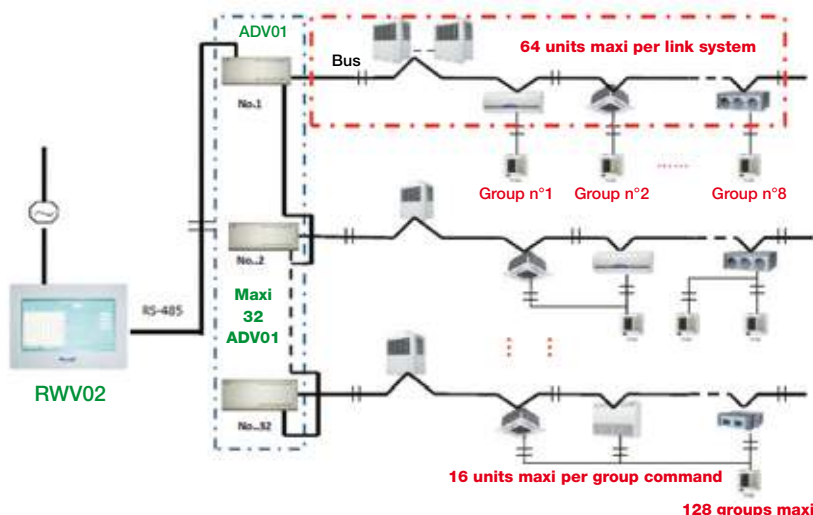
## CONTROL TECHNOLOGY



RWV02

### Central controller (optional)

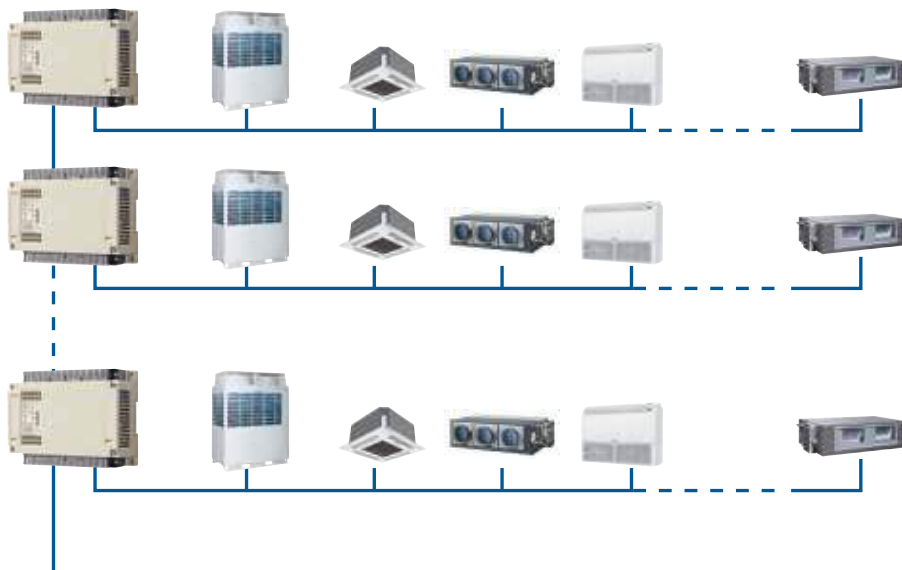
- Touch screen.
- Max RS-485 communication wire length is 1000m.
- Max connectable indoor units groups quantity is 128.
- Weekly timer function included.
- Zones creation.
- Central control mode.



## MODBUS RTU



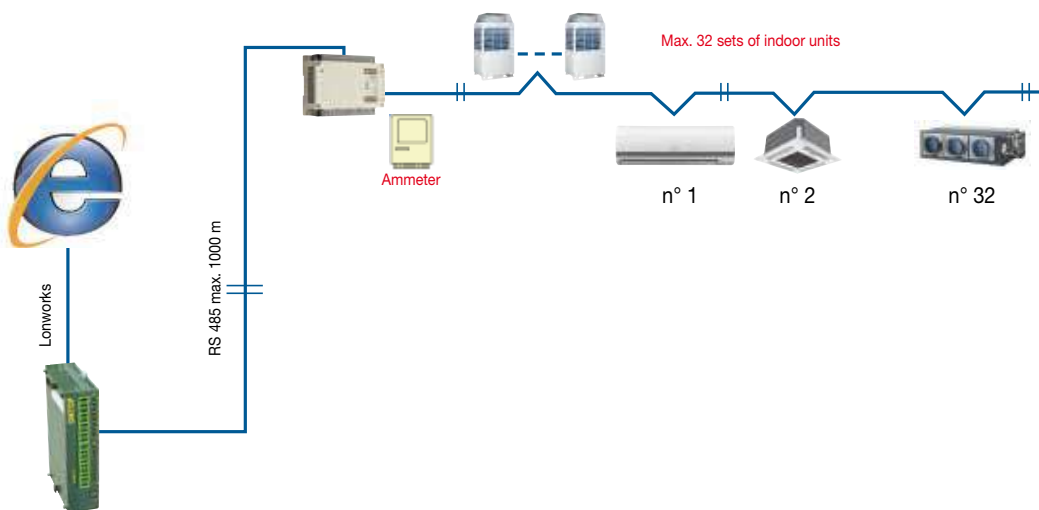
- Connect the outdoor unit to change the homebus protocol to Modbus protocol
- And then match with the ADV04 to realize the lonworks gateway function



## LONWORKS PROTOCOL GATEWAY



- Every outdoor system adopt one ADV04 + ADV03
- In one system, total connected indoor units quantity is max. 32
- The ADV04 need connect external 24V DC power supply

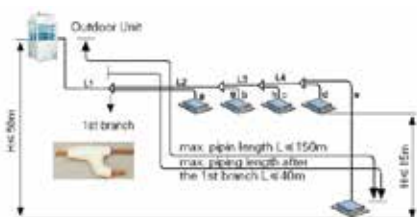


# Installation

## FLEXIBLE INSTALLATION

### Long piping length & large drop

- Total refrigerant piping length.
- Max. 300 m refrigerant piping length.
- Max. 50 m height drop between indoor and outdoor units (outdoor unit above, 40m if outdoor unit below).
- Max. 15 m height drop between indoor units.



## EASY TRANSPORTATION

### Modularized design

The outdoor units' space only occupies 0.74 m<sup>2</sup> and 1.04 m<sup>2</sup>, it can transport with elevators, save lots of transport cost and time.

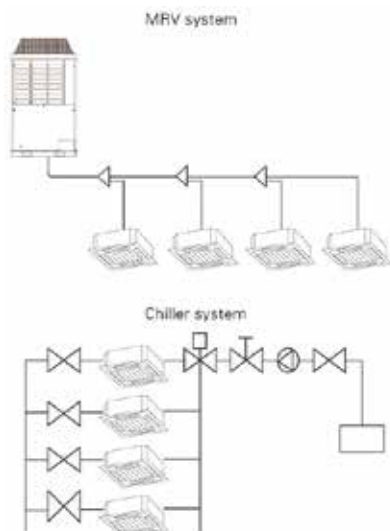
The outdoor units can be installed in different floors, save the whole system test time.



## EASY INSTALLATION

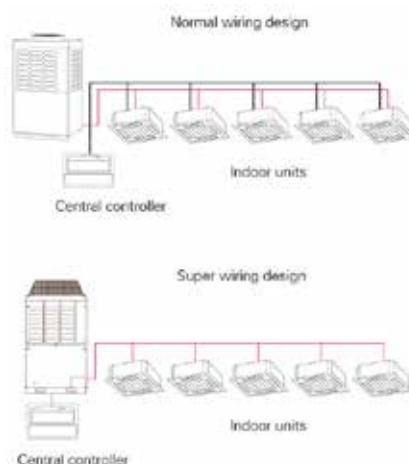
### Concise system

Comparing with chiller system, without filter, stop valves, accessory, FlowLogic II units refrigerant piping greatly reduce the system installation work and save a lot of protection & clean work.



### Wiring system

A wiring system is used to enable shared use of the wiring between indoor & outdoor units and the central control wiring, with a simple wiring operation. The only work you need to do is to connect the central controller to the outdoor unit directly if central controller is adopted.





# Reliability

## ADVANCED TECHNOLOGY

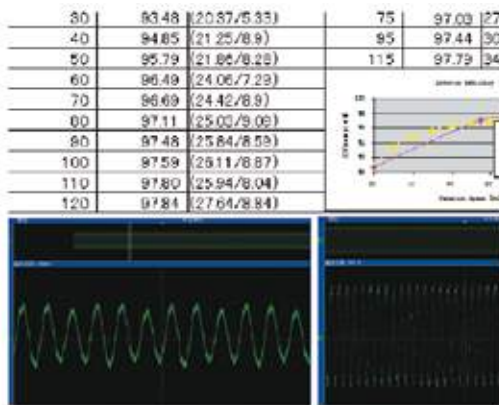
### High quality DC Inverter compressor

The highly efficient Scroll compressor is equipped with a “frame compliance mechanism” that allows movement in the axial direction of the frame supporting the cradle Scroll. This greatly reduces both leakage and friction loss, ensuring very high efficiency throughout the speed range.



### High quality Inverter module

Inverter module imported from Japan, design and evaluate according to Japanese standard (7 items, 45 specifications).



### More reliable outdoor PCB

All the hardware evaluated by the expert. Part design according to Japanese design standard. Improve the process, adopt the advanced method, painted with insulation paint, and tested at high ambient temperature to make sure good quality.



## DUTY CYCLING

### Duty cycling of outdoor units

The outdoor units make no difference between primary unit and secondary unit. For the system which consists of more than one unit, the operating turns of units will be changed every 8 hours.

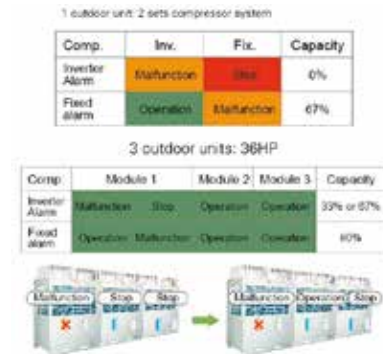
Duty cycling of outdoor units could balance the operation hours and life of each outdoor unit in order to prolong the system's life.



## RELIABLE OPERATION

### Backup operation

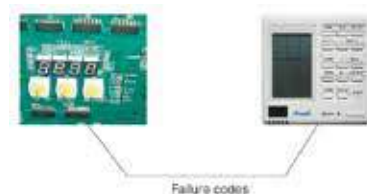
If one outdoor unit malfunction happens the other units provide emergent operation until repair achieved. In one module system, also can realize backup operation when fix speed compressor error happens. The backup operation could avoid the system close down due to one unit going wrong, it is quite reliable to use.



### Auto checking malfunction

Failure codes displayed by LED by 4x7 segments display in outdoor PCB or controllers are so detailed for us to find the fail place more quickly, and can judge the failure content easily.

These segments also indicated information such as pressure, current, temperature, etc...



## RELIABLE TEST

### Test in the development phase

- Capability and safty test
- 500 hours salt spray test
- 6 hours rain test
- 130% over-match test
- 300 m pipe length & 50m drop test
- EMC test

### Test during manufacturing

- Manufacture test
- Parts test/Leak test/Operation test/Safty test
- Outgoing test
- Visual test/Function test/Capacity test/Acoustic test
- Accessories test



Airwell products



Climate simulating lab



Quality EMC lab



Auto-test line



Enthalpy difference testing lab



Noise testing lab



Center control



Helium leak test

## Support

### SOFTWARE SELECTION PROGRAM



This software supplies a solution of piping & wiring design, can help the designer select the right material lists, basic wiring diagram and control wiring diagram etc.

Airwell also offers a computer selection program for defining size, piping, wiring diagram, and list of material (this software is only a tool to assist with decision making) and the results of it is directly dependant of the input data from the customer, so these data are provided for information purpose only and should not replace a study carried out by an approval filter.

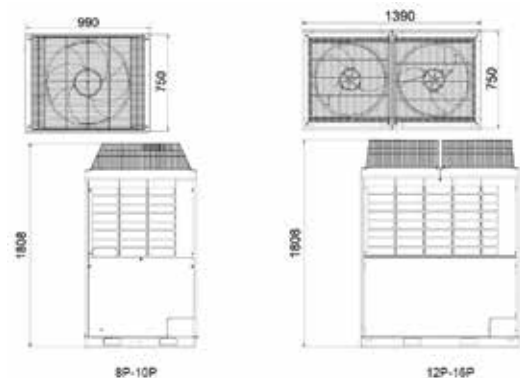
## FLOWLOGIC II TECHNICAL DATA FOR 10, 12, 14 AND 16 HP

Model		AWAU-YCV280-H13	AWAU-YCV335-H13	AWAU-YCV400-H13	AWAU-YCV450-H13		
Code		7SP14H002	7SP14H003	7SP14H014	7SP14H015		
<b>RATED CAPACITY</b>							
<b>Cooling</b>	<b>kW</b>	<b>28</b>	<b>33.5</b>	<b>40</b>	<b>45</b>		
<b>Heating</b>	<b>kW</b>	<b>31.5</b>	<b>37.5</b>	<b>45</b>	<b>50</b>		
<b>ELECTRICAL PARAMETERS</b>							
Power supply		Ph/V/Hz	3/380-400/50-60-N	3/380-400/50-60-N	3/380-400/50-60-N	3/380-400/50-60-N	
Input power	Cooling	Rated/Max current	A	11.1/23.4	14.2/24.7	19.05/28.5	20.3/31.6
		Rated/Max Input power	kW	7.36/14.7	10/15.5	11.4/17.9	13.4/19.99
	Heating	Rated/Max current	A	12.5/19	15.1/21.7	17.96/24.9	19.3/27.3
		Rated/Max Input power	kW	7.97/11.9	10/13.6	11.6/15.6	13.5/17.1
EER/COP			3.0/3.95	3.35/3.75	3.51/3.88	3.35/3.70	
<b>PERFORMANCE</b>							
Airflow (HS)		m³/h	11100	14100	14100	14100	
Noise level (HS)		dB(A)	57	60	60	60	
<b>INSTALLATION</b>							
External dimensions (WxDxH)		mm	990x750x1808	1390x750x1808	1390x750x1808	1390x750x1808	
Shipping dimensions (WxDxH)		mm	1090x860x1990	1490x860x1990	1490x860x1990	1490x890x1990	
Net/Shipping weight		kg	240/255	360/378	360/378	368/386	
Compressor type			Scroll	Scroll	Scroll	Scroll	
Refrigerant type			R410A	R410A	R410A	R410A	
Refrigerant charge		kg	11	12	12	14.5	
Tubing	Refrigerant liquid pipe	inches	3/8"	1/2"	1/2"	1/2"	
	Refrigerant gas pipe	inches	7/8"	1"	1"	1"1/8	
	Oil equalization pipe	inches	3/8"	3/8"	3/8"	3/8"	
	Max. tube length	m	300	300	300	300	
Environment temperature range	Cooling	°C	-5~43	-5~43	-5~43	-5~43	
	Heating	°C	-15~21	-15~21	-15~21	-15~21	
Maximum indoor units connectable		quantity	16	19	23	26	



### AIRWELL SOLUTIONS



### DIMENSIONS




## TECHNICAL DATA FOR 10-10 & 10-12 COMBINATION

Model		YCV 560		YCV 615	
Combination Model/Code		YCV 280/7SP14H002		YCV 280/7SP14H002	
		YCV 280/7SP14H002		YCV 335/7SP14H003	
					
<b>RATED CAPACITY</b>					
<b>Cooling</b>		<b>kW</b>	<b>56</b>	<b>61.5</b>	
<b>Heating</b>		<b>kW</b>	<b>63</b>	<b>69</b>	
<b>ELECTRICAL PARAMETERS</b>					
Power supply		Ph/V/Hz	3/380-400/50-60-N		3/380-400/50-60-N
Input power	Cooling	Rated/Max current	A	22.2/46.8	25.3/47.75
		Rated/Max Input power	kW	14.72/29.4	17.36/29.91
	Heating	Rated/Max current	A	25/28	27.6/39
		Rated/Max Input power	kW	15.94/23.8	24.37/27.6
EER/COP			3.8/3.95	3.54/2.83	
<b>PERFORMANCE</b>					
Airflow (HS)		m <sup>3</sup> /h	22200	25200	
Noise level (HS)		dB(A)	60	78	
<b>INSTALLATION</b>					
External dimensions (WxDxH)		mm	950x750x1808 + 990x750x1808	990/750/1808 + 1390/750/1808	
Shipping dimensions (WxDxH)		mm	1090x860x1990 + 1090x860x1990	1090/860/1990 + 1490/860/1990	
Net/Shipping weight		kg	480/510	600/633	
Compressor type			Scroll	Scroll	
Refrigerant type			R410A	R410A	
Refrigerant charge		kg	22	20	
Tubing	Refrigerant liquid pipe	inches	5/8"	5/8"	
	Refrigerant gas pipe	inches	1"1/8	1"1/8	
	Oil equalization pipe	inches	3/8"	3/8"	
	Max. tube length	m	300	300	
Environment temperature range	Cooling	°C	-5~43	-5~43	
	Heating	°C	-15~21	-15~21	
Maximum indoor units connectable		quantity	33	36	

## AIRWELL SOLUTIONS





## TECHNICAL DATA FOR 10-14 COMBINATION

Model		YCV 680	
Combination Model/Code		YCV 280/7SP14H002	
		YCV 400/7SP14H004	
			
<b>RATED CAPACITY</b>			
<b>Cooling</b>		<b>kW</b>	<b>68</b>
<b>Heating</b>		<b>kW</b>	<b>76.5</b>
<b>ELECTRICAL PARAMETERS</b>			
Power supply		Ph/V/Hz	3/380-400/50-60-N
Input power (A)	Cooling	Rated/Max current	30.15/51.9
		Rated/Max Input power	18.76/32.6
	Heating	Rated/Max current	30.46/43.9
		Rated/Max Input power	19.57/27.5
EER/COP			3.62/3.90
<b>PERFORMANCE</b>			
Airflow (HS)		m <sup>3</sup> /h	25200
Noise level (HS)		dB(A)	61
<b>INSTALLATION</b>			
External dimensions (WxDxH)		mm	950x750x1808 + 1390x750x1808
Shipping dimensions (WxDxH)		mm	1090x860x1990 + 1490x860x1990
Net/Shipping weight		kg	600/633
Compressor type			Scroll
Refrigerant type			R410A
Refrigerant charge		kg	23
Tubing	Refrigerant liquid pipe	inches	5/8"
	Refrigerant gas pipe	inches	1"1/8
	Oil equalization pipe	inches	3/8"
	Max. tube length	m	300
Environment temperature range	Cooling	°C	-5~43
	Heating	°C	-15~21
Maximum indoor units connectable		quantity	39

## AIRWELL SOLUTIONS




## TECHNICAL DATA FOR 10-16, 14-14 & 14-16 COMBINATIONS

Model		YCV 730	YCV 800	YCV 850	
Combination Model/Code		YCV 280/7SP14H002	YCV 400/7SP14H004	YCV 400/7SP14H004	
		YCV 450/7SP14H005	YCV 400/7SP14H004	YCV 450/7SP14H005	
					
<b>RATED CAPACITY</b>					
<b>Cooling</b>		<b>kW</b>	<b>73</b>	<b>78.5</b>	<b>85</b>
<b>Heating</b>		<b>kW</b>	<b>81.5</b>	<b>87.5</b>	<b>95</b>
<b>ELECTRICAL PARAMETERS</b>					
Power supply		Ph/V/Hz	3/380~400/50-60-N	3/380~400/50-60-N	3/380~400/50-60-N
Input power (A)	Cooling	Rated/Max current	31.4/55	34.5/56.3	39.35/60.1
		Rated/Max Input power	20.76/34.69	23.4/35.49	24.8/37.89
	Heating	Rated/Max current	31.8/46.3	34.4/49	37.26/52.2
		Rated/Max Input power	21.47/29	23.5/30.7	25.1/32.7
EER/COP			3.52/3.79	3.35/3.72	3.43/3.78
<b>PERFORMANCE</b>					
Airflow (HS)		m <sup>3</sup> /h	25200	28200	28200
Noise level (HS)		dB(A)	61	62	62
<b>INSTALLATION</b>					
External dimensions (WxDxH)		mm	950x750x1808 + 1390x750x1808	1390x750x1808 + 1390x750x1808	1390x750x1808 + 1390x750x1808
Shipping dimensions (WxDxH)		mm	1090x860x1990 + 1490x860x1990	1490x860x1990 + 1490x860x1990	1490x860x1990 + 1490x860x1990
Net/Shipping weight		kg	608/641	728/756	728/764
Compressor type			Scroll	Scroll	Scroll
Refrigerant type			R410A	R410A	R410A
Refrigerant charge		kg	25.5	26.5	26.5
Tubing	Refrigerant liquid pipe	inches	3/4"	3/4"	3/4"
	Refrigerant gas pipe	inches	1"1/4	1"1/4	1"1/4
	Oil equalization pipe	inches	3/8"	3/8"	3/8"
	Max. tube length	m	300	300	300
Environment temperature range	Cooling	°C	-5~43	-5~43	-5~43
	Heating	°C	-15~21	-15~21	-15~21
Maximum indoor units connectable		quantity	43	46	50

## AIRWELL SOLUTIONS




## TECHNICAL DATA FOR 16-16, 10-10-14 & 10-10-16 COMBINATIONS

Model		YCV 900	YCV 960	YCV 1010	
Combination Model/Code		YCV 450/7SP14H005	YCV 280/7SP14H002	YCV 280/7SP14H002	
		YCV 450/7SP14H005	YCV 280/7SP14H002	YCV 280/7SP14H002	
		-	YCV 400/7SP14H004	YCV 450/7SP14H005	
					
<b>RATED CAPACITY</b>					
<b>Cooling</b>		<b>kW</b>	<b>90</b>	<b>96</b>	<b>101</b>
<b>Heating</b>		<b>kW</b>	<b>100</b>	<b>108</b>	<b>113</b>
<b>ELECTRICAL PARAMETERS</b>					
Power supply		Ph/V/Hz	3/380~400/50-60-N	3/380~400/50-60-N	3/380~400/50-60-N
Input power (A)	Cooling	Rated/Max current	40.6/63.2	41.25/75.3	42.5/78.4
		Rated/Max Input power	26.8/39.98	26.12/47.3	28.12/49.39
	Heating	Rated/Max current	38.6/54.6	42.96/62.9	44.3/65.3
		Rated/Max Input power	27/34.2	27.54/39.4	29.4/40.9
EER/COP			3.36/3.70	3.67/3.92	3.59/3.84
<b>PERFORMANCE</b>					
Airflow (HS)		m <sup>3</sup> /h	28200	36300	36300
Noise level (HS)		dB(A)	62	63	63
<b>INSTALLATION</b>					
External dimensions (WxDxH)		mm	1390x750x1808 + 1390x750x1808	950x750x1808 + 950x750x1808 + 1390x750x1808	950x750x1808 + 950x750x1808 + 1390x750x1808
Shipping dimensions (WxDxH)		mm	1490x860x1990 + 1490x860x1990	1090x860x1990 + 1090x860x1990 + 1490x860x1990	1090x860x1990 + 1090x860x1990 + 1490x860x1990
Net/Shipping weight		kg	736/772	840/888	848/896
Compressor type			Scroll	Scroll	Scroll
Refrigerant type			R410A	R410A	R410A
Refrigerant charge		kg	29	34	36.5
Tubing	Refrigerant liquid pipe	inches	3/4"	3/4"	3/4"
	Refrigerant gas pipe	inches	1"1/4	1"1/4	1"1/2
	Oil equalization pipe	inches	3/8"	3/8"	3/8"
	Max. tube length	m	300	300	300
Environment temperature range	Cooling	°C	-5~43	-5~43	-5~43
	Heating	°C	-15~21	-15~21	-15~21
Maximum indoor units connectable		quantity	53	56	59

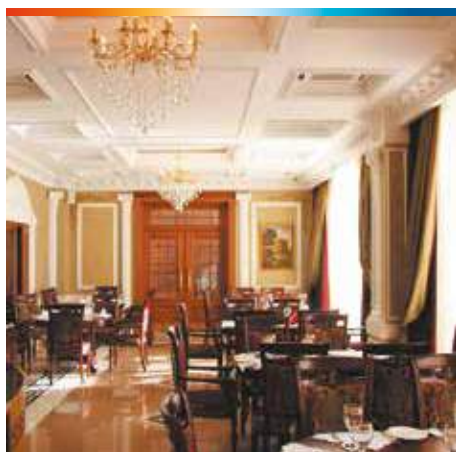
## AIRWELL SOLUTIONS



## TECHNICAL DATA FOR 10-14-14, 10-14-16 & 10-16-16 COMBINATIONS


Model		YCV 1080	YCV 1130	YCV 1180	
Combination Model/Code		YCV 280/7SP14H002	YCV 280/7SP14H002	YCV 280/7SP14H002	
		YCV 400/7SP14H004	YCV 400/7SP14H004	YCV 450/7SP14H005	
		YCV 400/7SP14H004	YCV 450/7SP14H005	YCV 450/7SP14H005	
					
RATED CAPACITY					
Cooling		<b>kW</b>	<b>106.5</b>	<b>113</b>	<b>118</b>
Heating		<b>kW</b>	<b>119</b>	<b>126.5</b>	<b>131.5</b>
ELECTRICAL PARAMETERS					
Power supply		Ph/V/Hz	3/380~400/50-60-N	3/380~400/50-60-N	3/380~400/50-60-N
Input power (A)	Cooling	Rated/Max current	45.6/79.7	50.45/83.5	51.7/86.6
		Rated/Max Input power	30.76/50.19	32.16/52.69	34.16/54.68
	Heating	Rated/Max current	46.9/68	49.76/71.2	51.1/73.6
		Rated/Max Input power	31.47/42.6	33.07/44.6	34.97/46.1
EER/COP			3.46/3.78	3.51/3.82	3.45/3.76
PERFORMANCE					
Airflow (HS)		m <sup>3</sup> /h	39300	39300	39300
Noise level (HS)		dB(A)	63	63	63
INSTALLATION					
External dimensions (WxDxH)		mm	950x750x1808 + 1390x750x1808 + 1390x750x1808	950x750x1808 + 1390x750x1808 + 1390x750x1808	950x750x1808 + 1390x750x1808 + 1390x750x1808
Shipping dimensions (WxDxH)		mm	1090x860x1990 + 1490x860x1990 + 1490x860x1990	1090x860x1990 + 1490x860x1990 + 1490x860x1990	1090x860x1990 + 1490x860x1990 + 1490x860x1990
Net/Shipping weight		kg	968/1011	968/1019	976/1027
Compressor type			Scroll	Scroll	Scroll
Refrigerant type			R410A	R410A	R410A
Refrigerant charge		kg	37.5	37.5	40
Tubing	Refrigerant liquid pipe	inches	3/4"	3/4"	3/4"
	Refrigerant gas pipe	inches	1"1/2	1"1/2	1"1/2
	Oil equalization pipe	inches	3/8"	3/8"	3/8"
	Max. tube length	m	300	300	300
Environment temperature range	Cooling	°C	-5~43	-5~43	-5~43
	Heating	°C	-15~21	-15~21	-15~21
Maximum indoor units connectable		quantity	63	64	64

## AIRWELL SOLUTIONS





## TECHNICAL DATA FOR 12-16-16, 14-16-16 & 16-16-16 COMBINATIONS

Model		YCV 1235	YCV 1300	YCV 1350	
Combination Model/Code		YCV 335/7SP14H003	YCV 400/7SP14H004	YCV 450/7SP14H005	
		YCV 450/7SP14H015	YCV 450/7SP14H005	YCV 450/7SP14H005	
		YCV 450/7SP14H015	YCV 450/7SP14H005	YCV 450/7SP14H005	
					
<b>RATED CAPACITY</b>					
<b>Cooling</b>		<b>kW</b>	<b>123.5</b>	<b>130</b>	<b>135</b>
<b>Heating</b>		<b>kW</b>	<b>137.5</b>	<b>145</b>	<b>150</b>
<b>ELECTRICAL PARAMETERS</b>					
Power supply		Ph/V/Hz	3/380-400/50-60-N	3/380-400/50-60-N	3/380-400/50-60-N
Input power (A)	Cooling	Rated/Max current	54.8/92.64	59.65/91.7	60.9/94.8
		Rated/Max Input power	36.8/58.5	38.2/57.88	40.2/59.97
	Heating	Rated/Max current	53.7/80.1	56.56/79.5	57.9/81.9
		Rated/Max Input power	37/50.2	38.6/49.8	40.5/51.3
EER/COP			3.35/3.72	3.40/3.75	3.35/3.70
<b>PERFORMANCE</b>					
Airflow (HS)		m <sup>3</sup> /h	42300	42300	42300
Noise level (HS)		dB(A)	64	64	64
<b>INSTALLATION</b>					
External dimensions (WxDxH)		mm	1390/750/1808+ 1390/750/1808+ 1390/750/1808	1390x750x1808 + 1390x750x1808 + 1390x750x1808	1390x750x1808 + 1390x750x1808 + 1390x750x1808
Shipping dimensions (WxDxH)		mm	1490/860/1990+ 1490/860/1990+ 1490/860/1990	1490x860x1990 + 1490x860x1990 + 1490x860x1990	1490x860x1990 + 1490x860x1990 + 1490x860x1990
Net/Shipping weight		kg	1096/1150	1096/1150	1104/1158
Compressor type			Scroll	Scroll	Scroll
Refrigerant type			R410A	R410A	R410A
Refrigerant charge		kg	30	41	43.5
Tubing	Refrigerant liquid pipe	inches	3/4"	3/4"	3/4"
	Refrigerant gas pipe	inches	1"1/2	1"1/2	1"1/2
	Oil equalization pipe	inches	3/8"	3/8"	3/8"
	Max. tube length	m	300	300	300
Environment temperature range	Cooling	°C	-5~43	-5~43	-5~43
	Heating	°C	-15~21	-15~21	-15~21
Maximum indoor units connectable		quantity	64	64	64

## AIRWELL SOLUTIONS





# HAV

## HIGH WALL



- EEV inside put: The EEV box inside put, easy for installation.
- High-quality DC fan motor: Reduce the indoor unit noise greatly.
- New fashion design.
- Infrared remote controller included.



RCV01  
(STD)

### HAV TECHNICAL DATA

Indoor units		AWSI-HAV007-N11	AWSI-HAV009-N11	AWSI-HAV012-N11	AWSI-HAV018-N11	AWSI-HAV024-N11
Code		7SP02H001	7SP02H002	7SP02H003	7SP02H005	7SP02H006
<b>RATED CAPACITY</b>						
Cooling	kBtu/h	7.5	9.5	12.3	19.1	24.2
	kW	<b>2.2</b>	<b>2.8</b>	<b>3.6</b>	<b>5.6</b>	<b>7.1</b>
Heating	kBtu/h	8.5	10.9	13.6	21.5	27.3
	kW	<b>2.5</b>	<b>3.2</b>	<b>4</b>	<b>6.3</b>	<b>8</b>
<b>ELECTRICAL PARAMETERS</b>						
Power supply	Ph/V/Hz	1/220-230/50	1/220-230/50	1/220-230/50	1/220-230/50	1/220-230/50
<b>PERFORMANCE</b>						
Airflow	m <sup>3</sup> /h	600	600	600	800	1000
Noise level (LS/MS/HS)	dB(A)	31/33/37	31/34/37	33/36/41	34/39/43	38/42/47
<b>INSTALLATION</b>						
External dimensions (WxHxD)	mm	938x265x187	938x265x187	938x265x187	1046x299x234	1046x299x234
Shipping dimensions (WxHxD)	mm	1016x360x304	1016x360x304	1016x360x304	1126x388x344	1126x388x344
Net/Shipping weight	kg	10.9/12.6	10.9/12.6	10.9/12.6	13/16.5	13/16.5
Refrigerant liquid pipe	inches	1/4"	1/4"	1/4"	3/8"	3/8"
Refrigerant gas pipe	inches	1/2"	1/2"	1/2"	5/8"	5/8"

### AIRWELL SOLUTIONS



Dimensions: 007-009-012 models



Dimensions: 018-024 models





# CBV CASSETTE 600x600

- Quiet operation
- Built-in high head drain pump
- Fresh air inlet
- Wired controller RWV01 included
- EEV inside
- Automatic swing

## PRODUCT ADVANTAGES

- The cassette external dimension is 570x570x260mm for easy installation. It is universal and harmony with standard ceiling 600x600mm. There is no breakage for ceiling during installation.
- Airflow pass through the outlet smoothly and fluently owing to the streamline air outlet. Bring you a much more quiet space. The fan blade adopts the design of irregular helix. The indoor unit can run at the lowest sound level.
- Built-in high head pump drains water automatically. A standard drain-head height of up to 600 mm is possible, creating the ideal solution for perfect water drainage.
- Pre-set fresh air inlet, can introduce the outside fresh air into the room, greatly improve the indoor air quality (optional).



RWV01 (STD)



RCV01 (optional)



RWV03 (optional)



RWV04 (optional)

## CBV TECHNICAL DATA

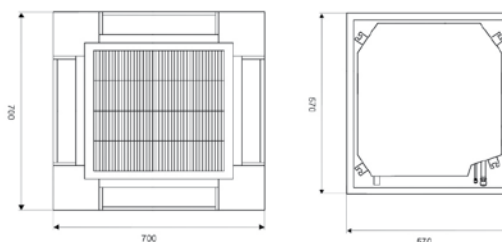
Indoor units		AWSI-CBV009-N11	AWSI-CBV012-N11	AWSI-CBV016-N11
Code		7SP04H001	7SP04H002	7SP04H003
<b>RATED CAPACITY</b>				
Cooling	kBtu/h	9.5	12.3	15.3
	kW	<b>2.8</b>	<b>3.6</b>	<b>4.5</b>
Heating	kBtu/h	10.9	13.6	17.1
	kW	<b>3.2</b>	<b>4</b>	<b>5</b>
<b>ELECTRICAL PARAMETERS</b>				
Power supply	Ph/V/Hz	1/220~230/50	1/220~230/50	1/220~230/50
<b>PERFORMANCE</b>				
Airflow	m³/h	700	700	700
Noise level (LS/MS/HS)	dB(A)	29/30/32	29/30/32	29/30/33
<b>INSTALLATION</b>				
External dimensions (WxHxD)	mm	570x570x260	570x570x260	570x570x260
Shipping dimensions (WxHxD)	mm	718x680x380	718x680x380	718x680x380
Net/Shipping weight	kg	19/21	19/21	19/21
Refrigerant liquid pipe	inches	1/4"	1/4"	1/4"
Refrigerant gas pipe	inches	3/8"	1/2"	1/2"
<b>PANEL</b>				
Code panel		7ACVFH001	7ACVFH001	7ACVFH001
External dimensions (WxHxD)	mm	700x700x60	700x700x60	700x700x60
Shipping dimensions (WxHxD)	mm	740x750x115	740x750x115	740x750x115
Net/Shipping weight	kg	2.8/4.8	2.8/4.8	2.8/4.8

Please contact Airwell before ordering unit with wired control application option.

## AIRWELL SOLUTIONS



Dimensions: 009-012-016 models





# CCV

## CASSETTE 900x900

- Compact design
- Advance structure facilitating cleaning and installation
- Fresh air inlet
- EEV inside
- Wired controller RWW01 included
- Automatic swing
- IR receipt included

### PRODUCT ADVANTAGES

- Adopts the compact design the thick of the main body is only 240 mm. So even the inner space of the ceiling is narrow the unit can also be installed easily.
- The suction grille can be rotated by 90° and its installation direction can be selected randomly.
- Pre-set fresh air inlet, can introduce the outside fresh air into the room, greatly improve the indoor air quality (optional).
- From small to big size use the same appearance panel, harmony with the environment and with consistence appearance.

### CCV TECHNICAL DATA

Indoor units		AWSI-CCV018-N11	AWSI-CCV024-N11	AWSI-CCV030-N11	AWSI-CCV048-N11
Code		7SP04H004	7SP04H005	7SP04H007	7SP04H009
<b>RATED CAPACITY</b>					
<b>Cooling</b>	kBtu/h	19.1	24.2	30.7	47.7
	<b>kW</b>	<b>5.6</b>	<b>7.1</b>	<b>9</b>	<b>14</b>
<b>Heating</b>	kBtu/h	21.5	27.3	34.1	54.6
	<b>kW</b>	<b>6.3</b>	<b>8</b>	<b>10</b>	<b>16</b>
<b>ELECTRICAL PARAMETERS</b>					
Power supply	PhV/Hz	1/220-230/50	1/220-230/50	1/220-230/50	1/220-230/50
<b>PERFORMANCE</b>					
Airflow	m <sup>3</sup> /h	1200	1200	1800	1800
Noise level (LS/MS/HS)	dB(A)	30/32/34	31/35/34	31/35/37	35/39/42
<b>INSTALLATION</b>					
External dimensions (WxHxD)	mm	840x840x240	840x840x240	840x840x295	840x840x295
Shipping dimensions (WxHxD)	mm	930x930x330	930x930x330	930x930x390	930x930x390
Net/Shipping weight	kg	30/36	30/36	38/40	38/40
Refrigerant liquid pipe	inches	1/4"	3/8"	3/8"	3/8"
Refrigerant gas pipe	inches	1/2"	5/8"	5/8"	5/8"
<b>PANEL</b>					
Code panel		7ACVFH002	7ACVFH002	7ACVFH002	7ACVFH002
External dimensions (WxHxD)	mm	950x950x80	950x950x80	950x950x80	950x950x80
Shipping dimensions (WxHxD)	mm	985x985x115	985x985x115	985x985x115	985x985x115
Net/Shipping weight	kg	6/9	6/9	6/9	6/9

Please contact Airwell before ordering unit with wired control application option.



RWW01 (STD)



RCV01 (optional)



RWW03 (optional)

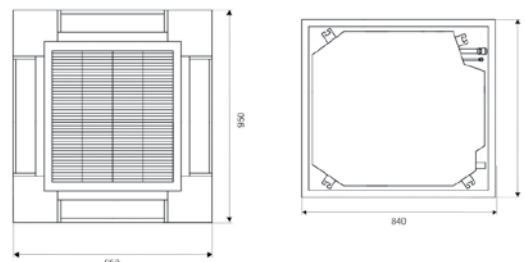


RWW04 (optional)

### AIRWELL SOLUTIONS



Dimensions: 018-024-030-048 models





# FAV FLOOR CEILING

- Ultra-thin unit body, only thick 199mm
- Wide-angle airflow
- Quiet running
- EEV inside
- Wired controller RWW01 included
- Automatic swing

## PRODUCT ADVANTAGES

- The convertible indoor unit adopts a double drain pan design. The unit body is very thin, only 199mm. It is beautiful, elegant and space saving.
- 100° wide angle louvers and 70° wide angle blades design to make a precise control of the airflow. It averagely distributes the comfortable air to every corner of the room.
- Thanks to the low sound level centrifugal fan, the unit always works quietly so as to give more comfort to life.

## FAV TECHNICAL DATA

Indoor units		AWSI-FAV012-N11	AWSI-FAV018-N11	AWSI-FAV024-N11
Code		7SP02H008	7SP02H010	7SP02H011
<b>RATED CAPACITY</b>				
Cooling	kBtu/h	12.3	19.1	24.2
	<b>kW</b>	<b>3.6</b>	<b>5.6</b>	<b>7.1</b>
Heating	kBtu/h	13.6	21.5	27.3
	<b>kW</b>	<b>4</b>	<b>6.3</b>	<b>8</b>
<b>ELECTRICAL PARAMETERS</b>				
Power supply	Ph/V/Hz	1/220~230/50	1/220~230/50	1/220~230/50
<b>PERFORMANCE</b>				
Airflow	m³/h	800	800	800
Noise level (LS/MS/HS)	dB(A)	44/46/48	44/46/48	44/46/48
<b>INSTALLATION</b>				
External dimensions (WxHxD)	mm	990x665x199	990x665x199	990x665x199
Shipping dimensions (WxHxD)	mm	1150x750x300	1150x750x300	1150x750x300
Net/Shipping weight	kg	28.3/34.3	28.3/34.3	28.3/34.3
Refrigerant liquid pipe	inches	1/4"	1/4"	3/8"
Refrigerant gas pipe	inches	1/2"	1/2"	5/8"

Please contact Airwell before ordering unit with wired control application option.



RWW01 (STD)



RCV01 (optional)



RWW03 (optional)

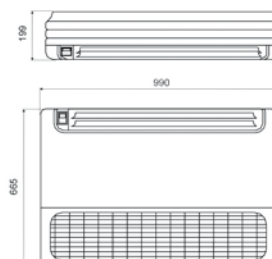


RWW04 (optional)

## AIRWELL SOLUTIONS



Dimensions: 012-018-024 models





DAV 009-012



DAV 016



# DAV

## DUCTED LOW STATIC PRESSURE

- 220 ultra thin design and space saving
- Optional air return design
- High efficiency filter G3
- EEV inside
- Wired controller RWW01 included on standard
- Ideal for hotel

### PRODUCT ADVANTAGES

- Ultra thick design make all the models have only 220 mm height. It is more convenient for installation and maintenance.
- The indoor unit placed in the ceiling only the inlet and outlet grill can be seen. The most suited grill can be used to fit with the indoor decoration.
- There are two air return design for the different requestment. Let the decoration more optional.
- Two choice of optional static pressure 0 Pa and 20 Pa for the low static pressure duct make user more convenient.
- The unit adopts G3 grade filter which can efficiency filter the dirt etc., and improve the room air quality. At the same time, the filter can be pulled out from downside, convenient for maintenance and cleaning.



RWW01 (STD)



RCV01 (optional)



(infrared receiver to combined with RCV 01)



RWW03 (optional)



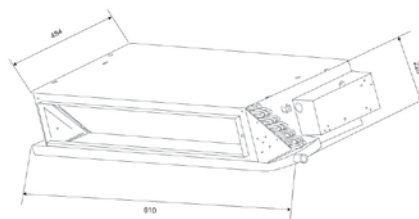
RWW04 (optional)

### DAV TECHNICAL DATA

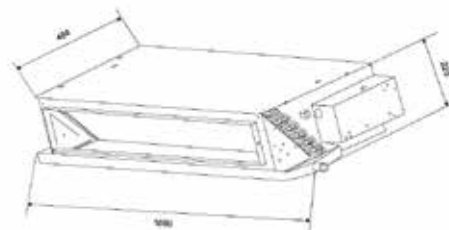
Indoor unit		AWSI-DAV009-N11	AWSI-DAV012-N11	AWSI-DAV016-N11
<b>Code</b>		<b>7SP03H002</b>	<b>7SP03H003</b>	<b>7SP03H004</b>
<b>RATED CAPACITY</b>				
<b>Cooling</b>	kBtu/h	9.5	12.3	15.3
	kW	<b>2.8</b>	<b>3.6</b>	<b>4.5</b>
<b>Heating</b>	kBtu/h	10.9	13.6	17.1
	kW	<b>3.2</b>	<b>4</b>	<b>5</b>
<b>ELECTRICAL PARAMETERS</b>				
<b>Power supply</b>	Ph/V/Hz	1/220-230/50	1/220-230/50	1/220-230/50
<b>PERFORMANCE</b>				
<b>Airflow</b>	m <sup>3</sup> /h	400	500	850
<b>Noise level (LS/MS/HS)</b>	dB(A)	30/32/35	30/32/35	30/32/35
<b>INSTALLATION</b>				
<b>External dimensions (WxHxD)</b>	mm	610x484x220	610x484x220	1090x484x220
<b>Shipping dimensions (WxHxD)</b>	mm	710x545x280	710x545x280	1174x545x280
<b>Net/Shipping weight</b>	kg	15/17	16/19	25/27
<b>Refrigerant liquid pipe</b>	inches	1/4"	1/4"	1/4"
<b>Refrigerant gas pipe</b>	inches	3/8"	3/8"	3/8"
<b>Static pressure</b>	Pa	20	20	20

Please contact Airwell before ordering unit with wired control application option.

Dimensions: 009-012 models



Dimensions: 016 model



### AIRWELL SOLUTIONS





DBV 018-028



DBV 038



# DBV

## DUCTED MEDIUM STATIC PRESSURE

- Flexible static pressure selection, meet the customers' personal requests
- High efficiency filter G3
- Special up-drainage water pump
- EEV inside
- Wired controller RWV01 included
- Plenum for air outlet provided: - 3 Ø200 sizes 018 and 028 - 4 Ø200 size 038

### PRODUCT ADVANTAGES

- The unit has standard static pressure (0-50 Pa) & middle static pressure (50-96 Pa) two choices, flexible air supply mode, make the installation more free and meet different personal requests.
- The unit adopts G3 grade filter which can efficiently filter the dirt etc., and improve the room air quality. At the same time, the filter can be pulled out from downside, convenient for maintenance and cleaning.
- The unit has a water pump whose the max. drainage height can be up to 600 mm.



RWV01 (STD)



RCV01 (optional)



(infrared receiver to combined with RCV 01)



RWV03 (optional)



RWV04 (optional)

### DBV TECHNICAL DATA

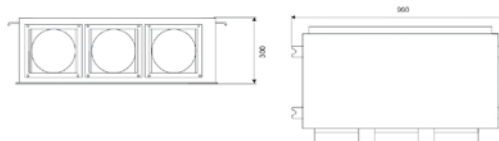
Indoor units		AWSI-DBV018-N11	AWSI-DBV024-N11	AWSI-DBV028-N11	AWSI-DBV038-N11
Code		7SP03H007	7SP03H008	7SP03H009	7SP03H011
<b>RATED CAPACITY</b>					
Cooling	kBtu/h	19.1	24.2	27.3	38.2
	kW	<b>5.6</b>	<b>7.1</b>	<b>8</b>	<b>11.2</b>
Heating	kBtu/h	21.5	27.3	30.7	42.6
	kW	<b>6.3</b>	<b>8</b>	<b>9</b>	<b>12.5</b>
<b>ELECTRICAL PARAMETERS</b>					
Power supply	Ph/V/Hz	1/220-230/50	1/220-230/50	1/220-230/50	1/220-230/50
<b>PERFORMANCE</b>					
Airflow	m³/h	1200	1200	1200	1900
Noise level (LS/MS/HS)	dB(A)	35/37/43	35/37/43	35/37/43	35/37/43
<b>INSTALLATION</b>					
External dimensions (WxHxD)	mm	990x650x300	990x650x300	990x650x300	1410x645x350
Shipping dimensions (WxHxD)	mm	1167x860x345	1167x860x345	1167x860x345	1557x800x370
Net/Shipping weight	kg	39/45	39/45	39/45	59/66
Refrigerant liquid pipe	inches	1/4"	3/8"	3/8"	3/8"
Refrigerant gas pipe	inches	1/2"	5/8"	5/8"	5/8"
Static pressure	Pa	50	50	50	50

Please contact Airwell before ordering unit with wired control application option.

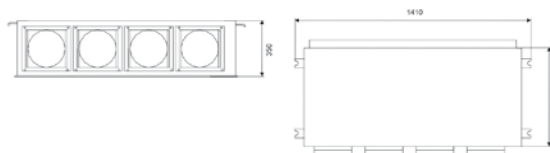
### AIRWELL SOLUTIONS



Dimensions: 018-024-028 models



Dimensions: 038 model





DCV 048



DCV 072-096



R410A FLUID



RWW01 (STD)



RCV01 (optional)



RWW03 (optional)



RWW04 (optional)

# DCV

## DUCTED HIGH STATIC PRESSURE

- High efficiency filter
- Free setting of air discharge duct
- Multi install mode
- High external static pressure design

### PRODUCT ADVANTAGES

- The number of the airflow outlet and its installation position can be freely selected according to the environment of the room, sufficiently considering the load of the room and the uniform temperature of the room to realize more perfect comfort.
- The indoor unit can be installed with an air return duct or without an air return duct according to the installation need.
- Max. external static pressure of 196 Pa brings the quick temperature adjustment to the room. Adopts high pressure fan to provide quick speed of air blowing while keeping a low sound level and ensuring a good air circulation of the whole indoor space.
- The unit adopts G3 grade filter which can efficiently filter the dirt etc., and improve the room air quality. At the same time, the filter can be pulled out from downside, convenient for maintenance and cleaning.



### DCV TECHNICAL DATA

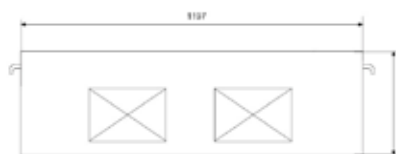
Indoor unit		AWSI-DCV048-N11	AWSI-DCV072-N11	AWSI-DCV096-N11
<b>Code</b>		<b>7SP03H018</b>	<b>7SP03H019</b>	<b>7SP03H020</b>
<b>RATED CAPACITY</b>				
<b>Cooling</b>	kBtu/h	47.7	77.1	95.5
	kW	<b>14</b>	<b>22.6</b>	<b>28</b>
<b>Heating</b>	kBtu/h	54.6	85.3	108.5
	kW	<b>16</b>	<b>25</b>	<b>31.5</b>
<b>ELECTRICAL PARAMETERS</b>				
Power supply	Ph/V/Hz	1/220-230/50	1/220-230/50	1/220-230/50
<b>PERFORMANCE</b>				
Airflow	m <sup>3</sup> /h	2100	4050	4050
Noise level (LS/HS)	dB(A)	40/45	49/54	49/54
<b>INSTALLATION</b>				
External dimensions (WxHxD)	mm	1197x360x830	1570x360x880	1570x360x880
Shipping dimensions (WxHxD)	mm	1430x420x940	1800x525x1000	1800x525x1000
Net/Shipping weight	kg	62/77	100/111	100/111
Refrigerant liquid pipe	inches	3/8"	3/8"	3/8"
Refrigerant gas pipe	inches	5/8"	5/8" x 2	5/8" x 2
Static pressure	Pa	196	196	196

Please contact Airwell before ordering unit with wired control application option.

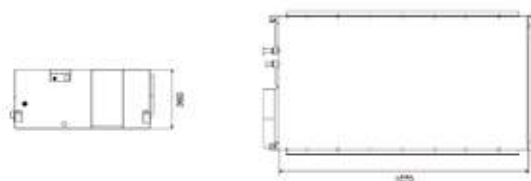
### AIRWELL SOLUTIONS



Dimensions: 048 model



Dimensions: 072-096 models







# EAV CONSOLE

- High efficiency filter
- Quiet running
- Compact unit body and space saving
- Fast temperature adjustment
- EEV inside
- Blowing up and down
- Wireless controller included

## PRODUCT ADVANTAGES

- The unit adopts high efficiency filter, can efficiently filter the dirt etc., and improve the room air quality.
- Thanks to the low sound level centrifugal fan, the unit always works quietly so as to give more comfort to life.
- The unit body is very thin and harmonious with room. It is beautiful, elegant and space saving.
- Air supplying from top or the bottom of the unit body for fast temperature adjustment.



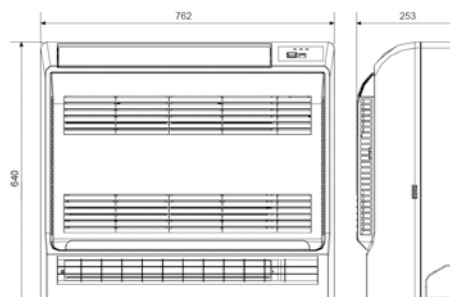
## EAV TECHNICAL DATA

Indoor unit		AWSI-EAV012-N11	
Code		7SP05H002	
<b>RATED CAPACITY</b>			
Cooling	kBtu/h	12.3	
	kW	3.6	
Heating	kBtu/h	13.6	
	kW	4	
<b>ELECTRICAL PARAMETERS</b>			
Power supply	Ph/V/Hz	1/220-230/50	
<b>PERFORMANCE</b>			
Airflow	m <sup>3</sup> /h	520	
Noise level (LS/MS/HS)	dB(A)	36/39/43	
<b>INSTALLATION</b>			
External dimensions (WxHxD)	mm	762x640x253	
Shipping dimensions (WxHxD)	mm	784x719x305	
Net/Shipping weight	kg	18/20	
Refrigerant liquid pipe	inches	1/4"	
Refrigerant gas pipe	inches	1/2"	

## AIRWELL SOLUTIONS



Dimensions: 012 model



# Accessories

## TOUCH SCREEN CENTRAL CONTROLLER RWV02

### MAIN FEATURES AND FUNCTIONS

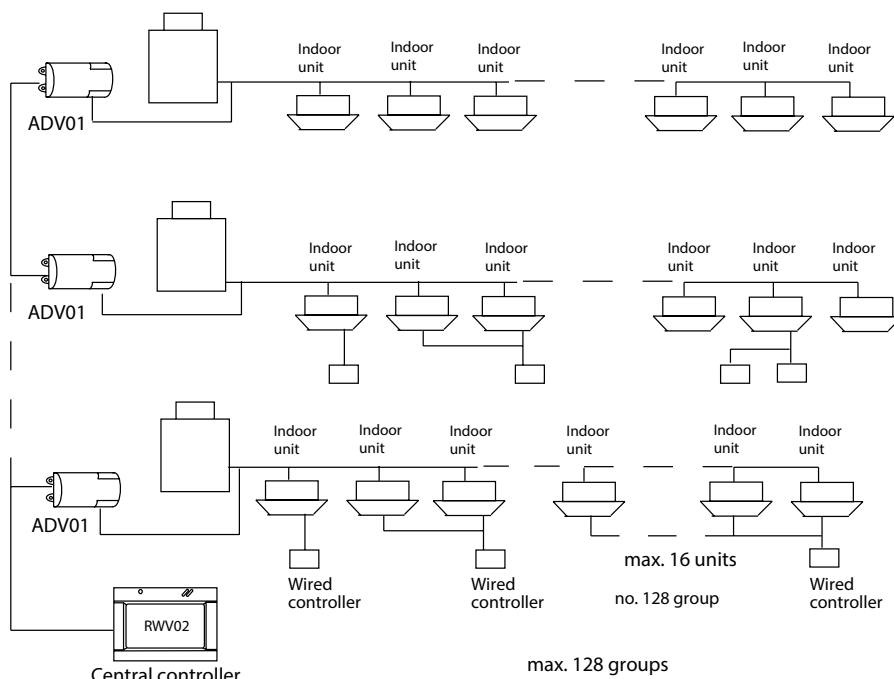
Central controller RWV02 mainly design for Amazon series system.

Can control and monitor the indoor units condition, maximum can control 128 groups, each group can maximum connect to 16 indoor units. All the controls, such as individual control, zone control, time setting, timer setting etc., can be realized by touch screen. Connecting diagram as follows:



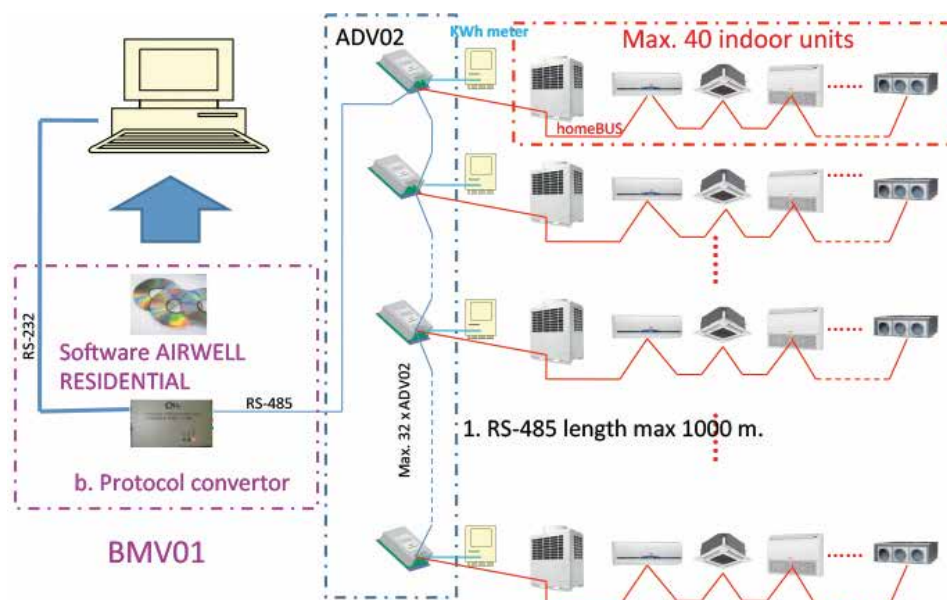
#### Main functions are:

- Maximum can monitor 128 groups indoor unit operation mode, airflow speed, temp., setting, ON/OFF, error code display, etc. condition.
- Can set mode, airflow speed, temp., etc. for individual/zone/all.
- Can check indoor unit real temp., pipe temp. etc. parameters.
- Can set LIFO (Last enter have high priority), central control, lock, etc., 3 types of operation modes.
- Can monitor the indoor units malfunction and save the error code for future checking.
- Weekly timer setting.
- Can set random units groups to one zone, maximum can set 128 groups to one zone, after set zone, each indoor unit of this zone can have same operation status (default setting: one group is one zone).



## BMS

BMS system H-CACSII transfers the data of air conditioner to the computer through the inverter protocol adapter (ADV02), and the user can monitor the working state and the power consumption of indoor and outdoor on real time at the computer. Set the parameter of system in time; start or stop a certain indoor individually, or in group as the request; receive the alarm and make some measures on real time; deal with the data and make some cost account tables.



### APPLICABLE FOR AMAZON VRF SYSTEM

#### → System combination

- Inverter protocol adapter (ADV02): Transforms the air conditioner protocol into protocol 485; receives ammeter pulse signal; accounts and saves the power cost of the connected system, then transfers it to the computer.
- Software: parameter displays and human-computer operation surface, and accounts and saves the power cost, output the cost table.
- RS 485&232 converter (hardware), Item 2 & 3 name is BMV01.

#### → Control range

- If the H-CACSII is necessary, pay attention that the indoor quantity of every system cannot be over 40 sets. Or the adapter can not work normally.
- Every system needs one protocol adapter.
- One Microsoft can control indoors within 400 sets.

### APPLICABLE RANGE AND RELATIVE CERTIFICATE

#### → Applicable range

- Temp. range: -30°C~52°C
- Ambient temperature of controller: -30°C~52°C
- Ambient humidity of controller: 10%~85%
- Save temp. range of controller: -30°C~52°C
- Altitude: 0~6000m
- Voltage: 220Vac±10%
- Frequency: 50Hz



















#### → Safe certificate: conform with HR and CCC

#### → Environment certificate: conform with ROHS

### RELIABLE REQUEST

#### → Application standards: QB1238-91, GB4706.1-92, GB4706.12-95

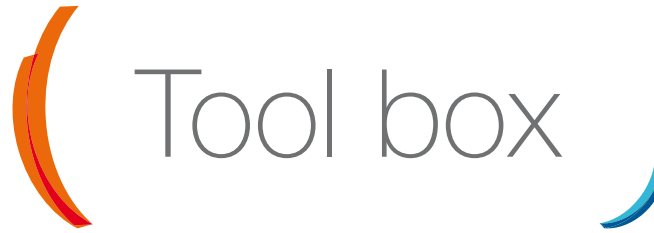
#### → Special requirement

[ NAME ]	Photo	Code	Model
INFRARED CONTROLLER		7ACELH001	RCV01
INFRARED CONTROLLER RECEIVER		7ACELH009	REC01
WIRED STANDARD CONTROLLER		7ACELH002	RWV01
SIMPLIFIED CONTROLLER		7ACELH008	RWV03
WIRED CONTROL WEEKLY TIMER		7ACELH010	RWV04
CENTRAL CONTROLLER "TOUCH SCREEN"		7ACELH003	RWV02
CONNECTING BOARD		7ACELH004	ADV01
INVERTER PROTOCOL ADAPTATER		7ACELH007	ADV02
MODBUS GATEWAY		7ACELH011	ADV03
LONWORKS GATEWAY		7ACELH012	ADV04
RS485&232 CONVERTER + SOFTWARE		7ACELH005	BMV01
PROTOCOL BACNET IP/MSTP + PROTOCOL MODBUS RTU/TCP		7ACELH013	BMV03
GATHER PIPE		7ACFHH005	TAS20
GATHER PIPE		7ACFHH006	TAS30
MANIFOLD PIPE		7ACFHH001	TAU335
MANIFOLD PIPE		7ACFHH002	TAU506
MANIFOLD PIPE		7ACFHH003	TAU730
MANIFOLD PIPE		7ACFHH004	TAU1350

CONTROLLERS

TUBING ACCESSORIES

[ FUNCTION ]	[ FOR WHAT UNITS? ]	[ OPTIONAL/COMMENTS ]
Unit operating	Wall mounted Console	Standard with high wall and console Optional with cassette, convertible and ducted
Realize infrared control for duct type	Duct	
Unit operating, group control (max. 16 indoor units) and "I Feel" function.	High wall, Duct 4-way cassette Floor ceiling	Standard with 4-ways cassette, ducted and floor ceiling
Unit operating and group control (max. 16 indoor units)	All (except for console type)	
Single unit control, group control, max. 16 units, weekly timer, clock, mode cooling/heating/auto/airflow/deshumidification, temperature, fan speed, fan direction	High wall, Cassette Convertible Duct type Built-in floor standing	
ON/OFF function & malfunction code display (max. 128 groups) Zone, timer, central control mode	FlowLogic II	Mandatory with ADV01
Connecting RWV02 and outdoor units	FlowLogic II	Mandatory with RWV02
Protocol adapter and data storage	FlowLogic II	Mandatory with BMV01 and BVM03
Connect the outdoor unit to change the homebus protocol to Modbus protocol.		
Every outdoor system adopt one ADV04 + ADV03. In one system, total connected indoor units quantity is max. 32. The ADV04 need connect external 24V DC power supply		Mandatory with ADV03
BMS control (air conditioner edition) In one system, total connected indoor units quantity is max. 40.	FlowLogic II	Mandatory with ADV02
BMS control (BACnet protocol edition)	FlowLogic II	Mandatory with ADV02
Refrigerant gathering	FlowLogic II	For 2 outdoor units
Refrigerant gathering	FlowLogic II	For 3 outdoor units
Refrigerant distribution	Total indoor units capacity less than 33.5 kW	
Refrigerant distribution	Total indoor units capacity less than 50.6 kW, but equal or bigger than 33.5 kW	
Refrigerant distribution	Total indoor units capacity less than 73 kW, but equal or bigger than 50.6 kW	
Refrigerant distribution	Total indoor units capacity bigger than 73 kW	



# Tool box

## MEASURE UNITS CONVERSION

Length			
1 inch (in)	0,0254 m		
1 foot (ft)	12 inches	0,3048 m	
1 yard (yd)	3 feet	0,9143 m	
1 mile (mi)	1,760 yards	1609 m	
1 nautical mile (nmi)	1852 m		
1 meter (m)	39,37 inches	3,28084 feet	1,09361 yard

mm	Inches
6,35	1/4
9,52	3/8
12,70	1/2
15,88	5/8
19,05	3/4
22,22	7/8
25,40	1
28,58	1"1/8
31,75	1"1/4
38,10	1"1/2

Volume	
1 cubic inch (cu in)	16,387064 cm <sup>3</sup>
1 cubic foot (cu ft)	0,028317 m <sup>3</sup> / 28,31685 dm <sup>3</sup>
1 cubic yard (cu yd)	0,76455 m <sup>3</sup>
1 pint	0,568 l
1 gallon-imp	4,546 l
1 gallon (US gal)	3,78541 l or dm <sup>3</sup>
1 cubic meter (m <sup>3</sup> )	35,31467 cu ft
1 cubic decimeter (dm <sup>3</sup> )	0,26428 gal
1 liter (l)	1 dm <sup>3</sup>

HP (horse power) *	Btu	kW
1	9000	2,637
1.5	12000	3,516
2	18000	5,274
2.5	24000	7,032
3	30000	8,79
5	45000	13,185

Mass volume	
1 cu.ft/lb	62,43 dm <sup>3</sup> /kg
1 US gallon/pound	8,3 dm <sup>3</sup> /kg

Density	
1 pound /cu.ft	0,016 kg/dm <sup>3</sup>

Mass		
1 ounce (oz)	28,349 g	
1 pound (lb)	16 oz	0,4536 kg
1 quintal U.S	100 lbs	
1 centweight	112 lbs	
1 short ton (US)	2000 lbs	907,18 kg
1 long ton (GB)	2240 lbs	1016,04 kg
1 quintal (q)	100 kg	
1 tonne (t)	1000 kg	

Area		
1 square inch (in <sup>2</sup> )	6,4516 cm <sup>2</sup>	
1 square foot (ft <sup>2</sup> )	0,0929 m <sup>2</sup>	
1 square yard (yd <sup>2</sup> )	0,8361 m <sup>2</sup>	
1 square meter (m <sup>2</sup> )	1550 in <sup>2</sup>	10,76391 ft <sup>2</sup>

Energy - Heat quantity		
1 cal	4,18 joules	
1 Btu	0,252 kcal	1055 joules
1 Btu/lb.°F	1 kcal/kg °C	
1 kcal	1 millithermie	
1 fg/h	-1 kcal/h	
1 kcal/h	1,163 W	
1 Btu/h	0,293 W	
1 ton (US)	3024 kcal/h	3512 W
1 ton (GB)	3340 kcal/h	3878 W
1 watt (thermic)	0,86 kcal/h	

° Fahrenheit = °C x 9/5 + 32

° Celsius = (°F-32) x 5/9

° Celsius = T (Kelvin) - 273,15

\* Indicative values

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