

Mini FlowLogic & FlowLogic II collection R410A VRF

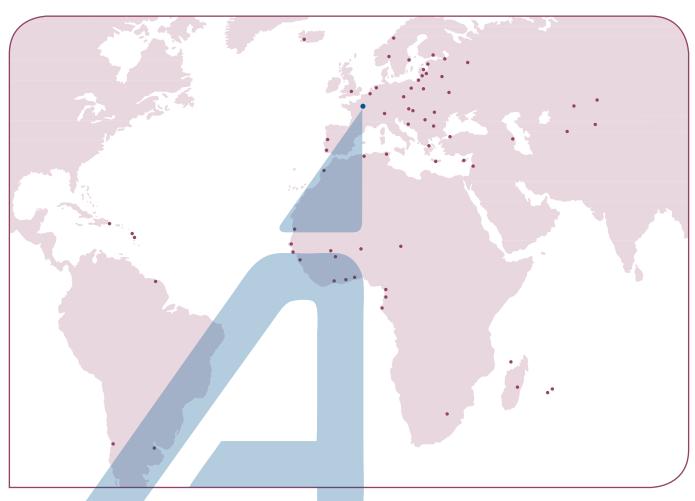
2012 2013





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AN INTERNATIONAL SALES NETWORK



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One Group, one history, many ambitions

2012 will mark the 65th anniversary of the Group's activity and international expansion.

The Airwell Group has a long history, marked by innovations at every stage of its development. In 1947 Paul Wallet founded the company L'Air Conditionné Entreprise (ACE) near Paris and, with the brand Airwell, quickly became the leading manufacturer of direct-expansion air conditioners. The foundations had been laid for what would become one of the largest groups worldwide to offer solutions for both the residential sector and to businesses, industry and the service sector.

INDUSTRIAL BEGINNINGS

Since the 1950s, ACE has been mass-producing air conditioning systems for private and commercial use. At that time, the company designed the first window unit – one of its flagship products – intended for the European and African markets.

A DECADE OF INNOVATION

Moving forward, in 1970 Airwell split its "window" unit into two parts to form a "split" system unit, becoming the first European manufacturer to produce this product. Another string was added to its bow a few years later, in 1979, with the air-water heat pump. In the wake of the two oil crises, this system could be connected to existing fuel oil boilers in homes. And in 1982 Airwell came up with the first range of wall split systems, incorporating a remote control, a high-tech tangential flow turbine to reduce noise levels and rotary compressors.





ONGOING EXPANSION

Always at the cutting edge of technology, in 1988 Airwell became the first western company to develop the Inverter system, which varies the speed of the compressor, thus enabling the temperature to be adjusted and energy savings to be made. In the 1990s, the company experienced exceptional growth, resulting in the creation of its "historic" factory in Tillières-sur-Avre, Normandy, and the acquisition of distributors in Spain, Italy, Germany and France.

AN INTERNATIONAL DIMENSION

In 1997, Airwell joined the Israeli group, Elco Holdings, which is listed on the Tel-Aviv stock exchange and is involved in many sectors: household appliances, air conditioning, retail sale of electronics and real estate. Other acquisitions, between 1998 and 2001, most notably of factories in France, Italy and China, strengthened the Group's international position. At the same time, it expanded its distribution network to Argentina and Turkey. The first decade of the new millennium saw acquisitions in Germany (Polenz Klimatechnik) and the USA (Fedders). Finally, to strengthen its position on the Asian markets, the Airwell Group will open a new factory in Taicang (China) in June 2012.

WHAT DOES THE FUTURE HOLD?

Many challenges lie ahead. The first is reliant on increasingly efficient, high quality products and services, which means listening to customers and ensuring a local presence. R&D is also one of the main priorities, with a desire to offer major innovations every year for each business line.



FlowLogic II, a high performance system for all those involved in the project

FlowLogic II is a range of variable refrigerant flow solutions for heating and air conditioning applications comprising of three innovative systems each utilising high performance R410A refrigerant.

This range is unmatched by anything on the market and can independently pilot **up to 64 indoor units**, giving a capacity of between 3 and 48HP (8 to 135 kW). The DC Inverter technology means that these systems achieve remarkable energy efficiency (**COP up to 4**) whilst offering ultra silent operation, and a 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 single and 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

- Owners or users benefit from a system which offers significant energy savings and has a direct impact on their fuel bills.
- The user benefits from a high performance system which guarantees optimal comfort all year round
- The installer benefits from the simplicity of the installation procedure
- The designer benefits from a number of tools (software and documents) which 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.



AIRWELL RANGE FlowLogic II Range - Outdoor units

MODEL NAME		PAGE	CAPACITY HP	POWER SUPPLY	CODE
Mini	0	10	3	1PH 230 V	7SP14H006
FlowLogic II		10	6	3PH 400 V	7SP14H009
FlowLogic II			10	3PH 400 V	7SP14H002
		14	14	3PH 400 V	7SP14H004
			16	3PH 400 V	7SP14H005

	Capacity (HP)	3	6	10	14	16	20	24	26	28	30	32	34	36	38	40	42	46	48
	Cooling (kW)	8.0	18.0	28.0	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
	Heating (kW)	9.5	20.0	31.5	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
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2-WAY MINI FLOWLOGIC II

Composed of three and single phase units of 3 & 6 HP, this range is designed for residential use or for light commercial use.

PRODUCT ADVANTAGES

- > COP can reach 4.1
- > Up to 9 units can be connected
- > Single phase electrics
- > Compact (0.32 m² 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 tubing lengths of up to 150 m

DC Inverter rotary compressor (YCV 080)



Realize high efficiency and compact designed compressor by joint wrap & rare metal magnet motor.

Wide range inverter compressors would satisfy the customer's innovative requirement and design.

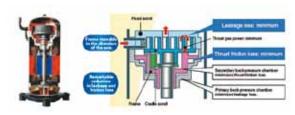
DC fan motor



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.

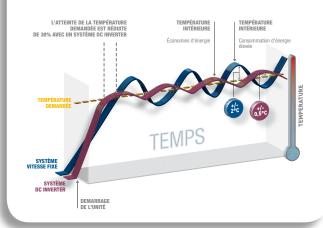
Highly efficient DC scroll compressor (YCV 180)

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.

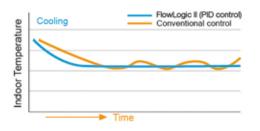


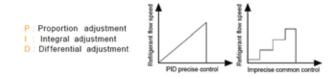


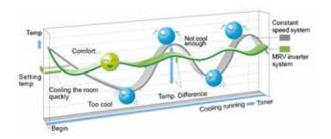
PRECISE CONTROL

■ PID control

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







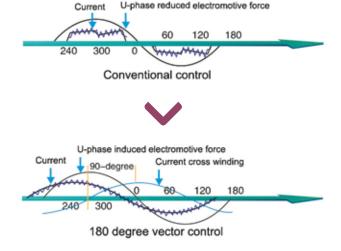


180 DEGREE VECTOR CONTROL TECHNOLOGY

■ 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%.



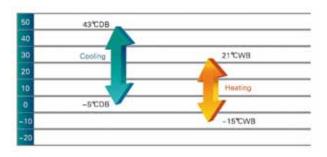


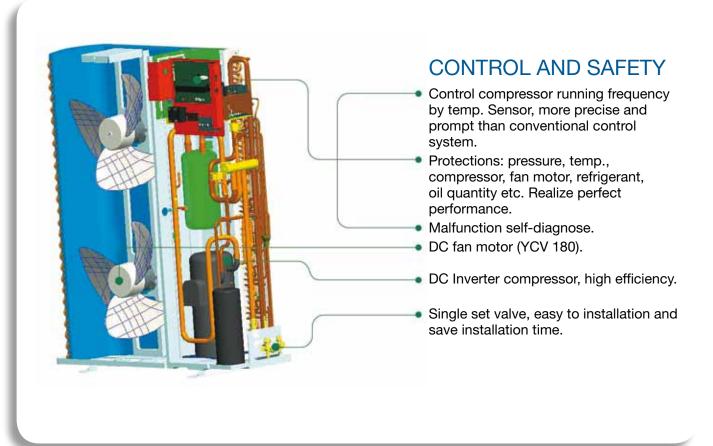


OPERATION RANGE

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.







MINI FLOWLOGIC II TECHNICAL DATA

		Model	YCV 080	YCV 180
		Code	7SP14H006	7SP14H009
CAPACITY	On allian	kBtu/H	27.3	61.4
	Cooling	kW	8	18
	11	kBtu/H	32.4	68.2
	Heating	kW	9.5	20
ELECTRICAL	Power supply	Ph/V/Hz	1/220~230/50	3/380~400/50-N
PARAMETERS	Cooling power input	kW	2.2	5.5
	Heating power input	kW	2.15	5.25
	EER/COP		3.64/4.42	3.27/3.8
PERFORMANCE	Air flow (H)	m³/h	3500	6500
	Noise level (H)	dB(A)	55	60
INSTALLATION	External dimensions (W/D/H)	mm	948/340/840	948/340/1250
	Shipping dimensions (W/D/H)	mm	1095/410/935	1094/410/1400
	Net/Shipping weight	kg	74/89	130/140
	Compressor type		Rotary	Scroll
	Refrigerant type		R410A	R410A
	Refrigerant liquid pipe	inches	3/8"	3/8"
	Refrigerant gas pipe	inches	5/8"	3/4"
	Max pipe length	m	50	100
	Max drop between indoor & outdoor*	m	30/20	30/20
	Maximum indoor units connectable	quantity	5	9
WORKING	Cooling	°C	-5~43	-5~43
TEMP.	Heating	°C	-15~21	-15~21

^{* 30} m if the outdoor unit is above indoor unit, 20 m if the outdoor unit is below indoor unit.











2-WAY FlowLogic II

Composed of DC Inverter models 10, 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 55 and 66 dB(A) without a silent mode, making these units 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 24HP to only 2 outdoor units
- > Minimum outdoor temperature of heating mode operation -20°C
- > DC Inverter fan
- > Noise levels: 51.5 dB(A)*

- > Power Ratio 130%
- > Indoor Units Identical to the FlowLogic 3 way and
- > Mini FlowLogic R410A ranges
- > Control device identical to the 3 way FLOW
- > LOGIC and Mini FlowLogic R410A ranges.
- > Unit dimensions optimised
- > De-icing between outdoor units
- > Lead lag operation to maintain equal operating time
- > Total connection length 300 metres
- > Wide range of control systems (Wireless control devices, touch screen central controller, GTC gateway.)



DC Inverter **Compressor high efficiency**



Use high efficiency DC Inverter scroll 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 ar placed in separated compartments. This structure of outdoor unit can realize lower air resistance, higher heat efficiency and lower noise level.

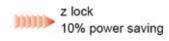


Energy save lock function

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

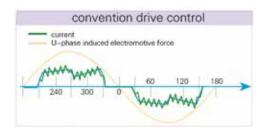
W-model Ø8 inner grooved tube. Hydrophylic aluminium coil fin.

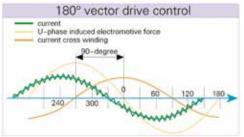
It will increase efficiency of heat exchange by 5%.

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.





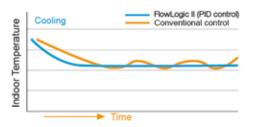


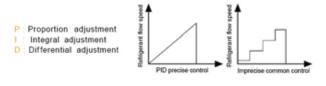


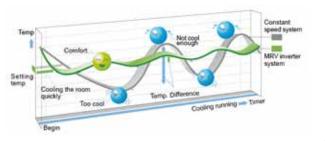
PRECISE CONTROL

■ PID control

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









CONTROL TECHNOLOGY

■ Variable control mode



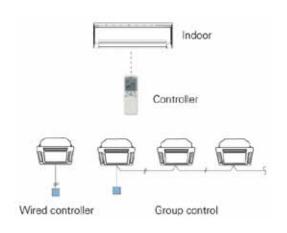
Wireless remote controller (standard for wall mounted and console type).

> Realize standard control function.



Wired & 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)



- 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.

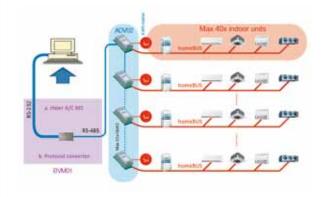


BMS CONTROL

■ BVM01

Simple Airwell A/C management system

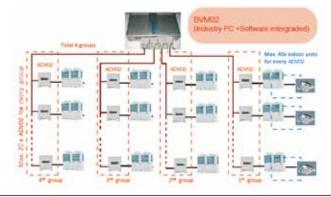
- >RS-485 communication length is max 1000m.
- > Total connected indoor units quantity is limited 400.
- > Energy pulse meter is optional.



■ BVM02

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.

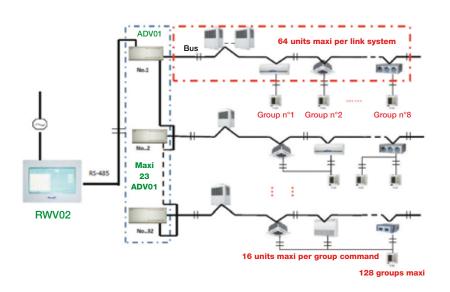


CONTROL TECHNOLOGY



■ 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.



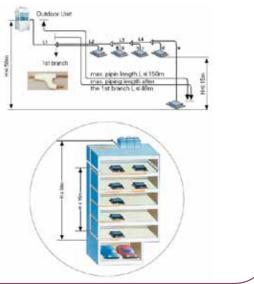




FLEXIBLE INSTALLATION

■ Long piping length & large drop

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



EASY TRANSPORTATION

■ Modularized design

The outdoor units' space only occupies 0.74m² and 1.04m², it can transport with elevators, save lots of transport cost and time.

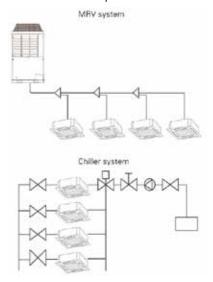
The outdoor units can installed in different floors, sace the whole system test time.



EASY INSTALLATION

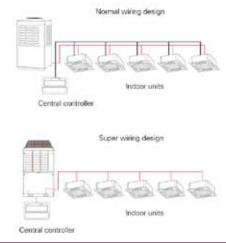
■ Concise system

Comparing with chiller system, without filter, stop valves, accessory, FlowLogic II units refregerant 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.







ADVANCED TECHNOLOGY

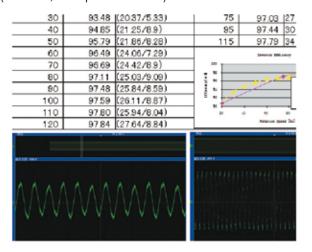
■ High quality DC Inverter compressor

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.

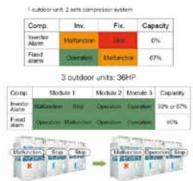
Duty cycling of outdoor units could balance the operation hours and life of each outdoor unit in order to prolong the system's life.



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.





RELIABLE TEST

■ Test in the development phase

- > Capability and safty test
- > 500 hours salt spray test
- >6 hours rain test
- > 130% over-match test
- >300m pipe lenght & 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



SOFTWARE SELECTION PROGRAM



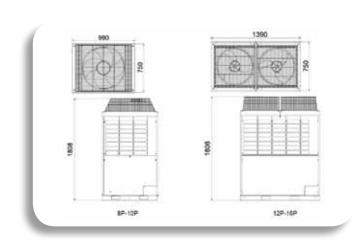
This software supply a solution of piping & wiring design, can help the designer select the right material lists, basic wiring diagram and control wiring diagram etc. Airwell also offers a computer selection program for defining size, piping, wiring diagram, and list of material (this software is only 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, 14 AND 16 HP

			Model		YCV 280	YCV 400	YCV 450
			Code		7SP14H002	7SP14H004	7SP14H005
CAPACITY	Cooling			kW	28	40	45
	Heating			kW	31.5	45	50
PARAMETERS	Power supply			Ph/V/Hz	3/380~400/50-N	3/380~400/50-N	3/380~400/50-N
		Caalina	Rated/Max current		11.1/23.4	3/4"/28.5	20.3/31.6
	Dawer innet (A)	Cooling	Rated/Max power input		7.36/14.7	11.4/17.9	13.4/19.99
	Power input (A)	Llaatina	Rated/Max current		12.5/19	17.96/24.9	19.3/27.3
		Heating	Rated/Max power input		7.97/11.9	11.6/15.6	13.5/17.1
PERFORMANCE	Air flow (H)			m³/h	11100	14100	14100
	Noise level (H)			dB(A)	57	60	60
INSTALLATION	External dimension	ons (W/D/F	l)	mm	990/750/1808	1390/750/1808	1390/750/1808
	Shipping dimens	ions (W/D/	H)	mm	1090/860/1990	1490/860/1990	1490/890/1990
	Net/Shipping wei	ight		kg	240/255	360/378	368/386
	Compressor type	•			Scroll	Scroll	Scroll
	Refrigerant type				R410A	R410A	R410A
	Refrigerant charg	je		kg	11	12	14.5
	Refrigerant liquid	l pipe		inches	3/8"	1/2"	1/2"
	Refrigerant gas p	pipe		inches	7/8"	1"	1"1/8
	Oil equalization p	oipe		inches	3/8"	3/8"	3/8"
	Environment		Cooling	°C	-5~43	-5~43	-5~43
	temperature rang	je	Heating	°C	-15~21	-15~21	-15~21
	Maximum indoor	units conn	ectable	quantity	16	16	26







TECHNICAL DATA FOR 10-10 COMBINATION

			Model		YCV 560		
		Com	bination Model / Code		YCV 280 / 7SP14H002		
					YCV 280 / 7SP14H002		
CAPACITY	Cooling			kW	56		
	Heating			kW	63		
ELECTRICAL	Power supply			Ph/V/Hz	3/380~400/50-N		
PARAMETERS		Cooling	Rated/Max current		22.2/46.8		
	Power input (A)	Cooming	Rated/Max power input		14.72/29.4		
	Tower input (A)	Heating	Rated/Max current		25/28		
		rieating	Rated/Max power input		15.94/23.8		
PERFORMANCE	Air flow (H)			m³/h	22200		
	Noise level (H)			dB(A)	60		
INSTALLATION	External dimension	ons (W/D/H	l)	mm	950/750/1808 + 990/750/1808		
	Shipping dimensi	ons (W/D/I	H)	mm	1090/860/1990 + 1090/860/1990		
	Net/Shipping wei	ght		kg	480/510		
	Compressor type				Scroll		
	Refrigerant type				R410A		
	Refrigerant charge	е		kg	22		
	Refrigerant liquid	pipe		inches	5/8"		
	Refrigerant gas pi	ipe		inches	1"1/8		
	Oil equalization p	ipe		inches	3/8"		
	Environment		Cooling	°C	-5~43		
	temperature range	е	Heating	°C	-15~21		
	Maximum indoor	units conn	ectable	quantity	33		





TECHNICAL DATA FOR 10-14 COMBINATION

			Model		YCV 680		
		Com	bination Model / Code		YCV 280 / 7SP14H002		
					YCV 400 / 7SP14H004		
CAPACITY	Cooling			kW	68		
	Heating			kW	76.5		
ELECTRICAL	Power supply			Ph/V/Hz	3/380~400/50-N		
PARAMETERS		Cooling	Rated/Max current		30.15/51.9		
Powe	Power input (A)	Cooming	Rated/Max power input		18.76/32.6		
	Tower input (A)	Heating	Rated/Max current		30.46/43.9		
		rieating	Rated/Max power input		19.57/27.5		
PERFORMANCE	Air flow (H)			m³/h	25200		
	Noise level (H)			dB(A)	61		
INSTALLATION	External dimension	ons (W/D/H	l)	mm	950/750/1808 + 1390/750/1808		
	Shipping dimensi	ons (W/D/I	H)	mm	1090/860/1990 + 1490/860/1990		
	Net/Shipping wei	ght		kg	600/633		
	Compressor type				Scroll		
	Refrigerant type				R410A		
	Refrigerant charge	е		kg	23		
	Refrigerant liquid	pipe		inches	5/8"		
	Refrigerant gas p	ipe		inches	1"1/8		
	Oil equalization p	ipe		inches	3/8"		
	Environment		Cooling	°C	-5~43		
	temperature range	е	Heating	°C	-15~21		
	Maximum indoor	units conn	ectable	quantity	39		





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

			Model		YCV 730	YCV 800	YCV 850
		Comb	ination Model / Code		YCV 280 / 7SP14H002	YCV 400 / 7SP14H004	YCV 400 / 7SP14H004
					YCV 450 / 7SP14H005	YCV 400 / 7SP14H004	YCV 450 / 7SP14H005
CAPACITY	Cooling			kW	73	78.5	85
	Heating			kW	81.5	87.5	95
ELECTRICAL	Power su	pply		Ph/V/Hz	3/380~400/50-N	3/380~400/50-N	3/380~400/50-N
PARAMETERS	Power input (A)	Coolina	Rated/Max current		31.4/55	34.5/56.3	39.35/60.1
		r	Rated/Max power input		20.76/34.69	23.4/35.49	24.8/37.89
		out (A) Heating	Rated/Max current		1"1/4/46.3	34.4/49	37.26/52.2
		rieating	Rated/Max power input		21.47/29	23.5/30.7	25.1/32.7
PERFORMANCE	Air flow (H	H)		m³/h	25200	28200	28200
	Noise leve	el (H)		dB(A)	61	62	62
INSTALLATION	External c	dimensions	s (W/D/H)	mm	950/750/1808 + 1390/750/1808	1390/750/1808 + 1390/750/1808	1390/750/1808 + 1390/750/1808
	Shipping	dimension	s (W/D/H)	mm	1090/860/1990 + 1490/860/1990	1490/860/1990 + 1490/860/1990	1490/860/1990 + 1490/860/1990
	Net/Shipp	ing weigh	t	kg	608/641	728/756	728/764
	Compress	sor type			Scroll	Scroll	Scroll
	Refrigerar	nt type			R410A	R410A	R410A
	Refrigerar	nt charge		kg	25.5	26.5	26.5
	Refrigerar	nt liquid pi	ре	inches	3/4"	3/4"	3/4"
	Refrigerar	nt gas pipe)	inches	1"1/4	1"1/4	1"1/4
	Oil equaliz	zation pipe	9	inches	3/8"	3/8"	3/8"
	Environme		Cooling	°C	-5~43	-5~43	-5~43
	temperatu	ire range	Heating	°C	-15~21	-15~21	-15~21
	Maximum	indoor ur	its connectable	quantity	43	46	50





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

			Model		YCV 900	YCV 960	YCV 1010
		Comb	ination 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
CAPACITY C	ooling			kW	90	96	101
н	Heating			kW	100	108	113
ELECTRICAL P	ower supp	oly		Ph/V/Hz	3/380~400/50-N	3/380~400/50-N	3/380~400/50-N
PARAMETERS		Caalina	Rated/Max current		40.6/63.2	41.25/75.3	42.5/78.4
Power input (A		Cooling	Rated/Max power input		26.8/39.98	26.12/47.3	28.12/49.39
	. , ,	1	Rated/Max current		38.6/54.6	42.96/62.9	44.3/65.3
		Heating	Rated/Max power input		27/34.2	27.54/39.4	29.4/40.9
PERFORMANCE A	ir flow (H)			m³/h	28200	36300	36300
N	loise level	(H)		dB(A)	62	63	63
INSTALLATION	xternal din	nension	s (W/D/H)	mm	1390/750/1808 + 1390/750/1808	950/750/1808 + 950/750/1808 + 1390/750/1808	950/750/1808 + 950/750/1808 + 1390/750/1808
SI	hipping di	mensior	ns (W/D/H)	mm	1490/860/1990 + 1490/860/1990	1090/860/1990 + 1090/860/1990 + 1490/860/1990	1090/860/1990 + 1090/860/1990 + 1490/860/1990
N	let/Shippir	ng weigh	t	kg	736/772	840/888	848/896
С	ompresso	r type			Scroll	Scroll	Scroll
R	efrigerant	type			R410A	R410A	R410A
R	efrigerant	charge		kg	29	34	36.5
R	efrigerant	liquid pi	ре	inches	3/4"	3/4"	3/4"
R	efrigerant	gas pipe	Э	inches	1"1/4	1"1/4	1"1/2
0	il equaliza	tion pipe	Э	inches	3/8"	3/8"	3/8"
E	nvironmen	nt	Cooling	°C	-5~43	-5~43	-5~43
te	emperature	e range	Heating	°C	-15~21	-15~21	-15~21
			nits connectable	quantity	53	56	59





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

			Model		YCV 1080	YCV 1130	YCV 1180
		Comb	ination Model / Code		YCV 280 / 7SP14H002	YCV 280 / 7SP14H002	YCV 280 / 7SP14H00
					YCV 400 / 7SP14H004	YCV 400 / 7SP14H004	YCV 450 / 7SP14H00
					YCV 400 / 7SP14H004	YCV 450 / 7SP14H005	YCV 450 / 7SP14H00
					-		
CAPACITY	Cooling			kW	106.5	113	118
	Heating			kW	119	126.5	131.5
ELECTRICAL	Power su	pply		Ph/V/Hz	3/380~400/50-N	3/380~400/50-N	3/380~400/50-N
PARAMETERS		Caalina	Rated/Max current		45.6/79.7	50.45/83.5	51.7/86.6
	Power	Cooling	Rated/Max power input		30.76/50.19	32.16/52.69	34.16/54.68
	input (A)	11	Rated/Max current		46.9/68	49.76/71.2	51.1/73.6
		Heating	Rated/Max power input		31.47/42.6	33.07/44.6	34.97/46.1
PERFORMANCE	Air flow (H	⊣)		m³/h	39300	39300	39300
	Noise lev	el (H)		dB(A)	63	63	63
INSTALLATION	External of	dimension	s (W/D/H)	mm	950/750/1808 + 1390/750/1808 + 1390/750/1808	950/750/1808 + 1390/750/1808 + 1390/750/1808	950/750/1808 + 1390/750/1808 + 1390/750/1808
	Shipping	dimensior	ns (W/D/H)	mm	1090/860/1990 + 1490/860/1990 + 1490/860/1990	1090/860/1990 + 1490/860/1990 + 1490/860/1990	1090/860/1990 + 1490/860/1990 + 1490/860/1990
	Net/Shipp	oing weigh	t	kg	968/1011	968/1019	976/1027
	Compres	sor type			Scroll	Scroll	Scroll
	Refrigera	nt type			R410A	R410A	R410A
	Refrigera	nt charge		kg	37.5	37.5	40
	Refrigera	nt liquid pi	ре	inches	3/4"	3/4"	3/4"
	Refrigera	nt gas pip	е	inches	1"1/2	1"1/2	1"1/2
	Oil equali	zation pip	е	inches	3/8"	3/8"	3/8"
	Environm	ent	Cooling	°C	-5~43	-5~43	-5~43
	temperati	ure range	Heating	°C	-15~21	-15~21	-15~21
	Maximum	n indoor ur	nits connectable	quantity	63	64	64





TECHNICAL DATA FOR 14-16-16 & 16-16-16 COMBINATIONS

			Model		YCV 1300	YCV 1350
		Comb	ination Model / Code		YCV 400 / 7SP14H004	YCV 450 / 7SP14H005
					YCV 450 / 7SP14H005	YCV 450 / 7SP14H005
					YCV 450 / 7SP14H005	YCV 450 / 7SP14H005
CAPACITY	Cooling			kW	130	135
	Heating			kW	145	150
ELECTRICAL	Power su	pply		Ph/V/Hz	3/380~400/50-N	3/380~400/50-N
PARAMETERS	Coolir	Cooling	Rated/Max current		59.65/91.7	60.9/94.8
	Power	Cooling	Rated/Max power input		38.2/57.88	40.2/59.97
ir	input (A)	Hooting	Rated/Max current		56.56/79.5	57.9/81.9
		Heating	Rated/Max power input		38.6/49.8	40.5/51.3
PERFORMANCE	Air flow (H	- 1)		m³/h	42300	42300
	Noise leve	el (H)		dB(A)	64	64
INSTALLATION	External of	dimension	s (W/D/H)	mm	1390/750/1808 + 1390/750/1808 + 1390/750/1808	1390/750/1808 + 1390/750/1808 + 1390/750/1808
	Shipping	dimensior	ns (W/D/H)	mm	1490/860/1990 + 1490/860/1990 + 1490/860/1990	1490/860/1990 + 1490/860/1990 + 1490/860/1990
	Net/Shipp	oing weigh	nt	kg	1096/1150	1104/1158
	Compress	sor type			Scroll	Scroll
	Refrigerar	nt type			R410A	R410A
	Refrigerar	nt charge		kg	41	43.5
	Refrigerar	nt liquid p	ре	inches	3/4"	3/4"
	Refrigera	nt gas pip	е	inches	1"1/2	1"1/2
	Oil equali:	zation pip	е	inches	3/8"	3/8"
	Environm	ent	Cooling	°C	-5~43	-5~43
	temperati	ure range	Heating	°C	-15~21	-15~21
	Maximum	indoor ui	nits connectable	quantity	64	64



AIRWELL RANGE FlowLogic II Range - Indoor units

		Capacity (HP) Cooling (kW)	<u> </u>
MODEL NAME	PAGE	Heating (kW)	_
Hi Wall	30	Codo	
		Code	
Cassette 600x600	34		
		Code	
Cassette 900x900	36		
		Code	
Floor & Ceiling	38		
		Code	
Ducted LSP	40		
		Code	
Ducted MSP	42		
		Code	
Console	48	Code	

7	9	12	16	18	24	28	30	38	48
2.2	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14
2.2	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14
~	~	~		~					
7SP02H001	7SP02H002	7SP02H003		7SP02H005					
	~	~	~						
	7SP04H001	7SP04H002	7SP04H003						
					~		~		~
					7SP04H005		7SP04H007		7SP04H009
		~			~				
		7SP02H008			7SP02H011				
	~								
	7SP03H002								
				~		~		~	
				7SP03H007		7SP03H009		7SP03H011	
		7SP05H002							







HAV

HIGH WALL

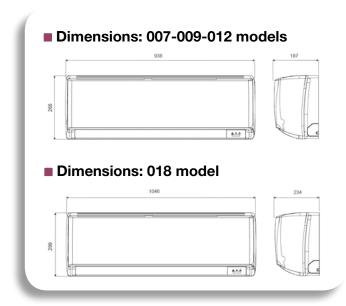
> EEV inside put

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 on standard.

AIRWELL SOLUTIONS





HAV TECHNICAL DATA

		Model		HAV 007	HAV 009	HAV 012	HAV 018
	Code			7SP02H001	7SP02H002	7SP02H003	7SP02H005
CAPACITY			kBtu/H	7.5	9.5	12.3	19.1
	Cooling		kW	2.2	2.8	3.6	5.6
	Haatina		kBtu/H	8.5	10.9	13.6	21.5
	Heating		kW	2.5	3.2	4	6.3
ELECTRICAL PARAMETERS	Power supply		Ph/V/Hz	1/220~230/50	1/220~230/50	1/220~230/50	1/220~230/50
PERFORMANCE	Air flow (H/M/L)		m³/h	600	600	600	800
	Noise level (H/M/L)		dB(A)	37/33/31	37/34/31	41/36/33	43/39/34
INSTALLATION	External dimensions (W/D/H)		mm	938/187/265	938/187/265	938/187/265	1046/234/299
	Shipping dimensions (W/D/H)		mm	1016/304/360	1016/304/360	1016/304/360	1126/344/388
	Net/Shipping weight		kg	10.9/12.6	10.9/12.6	10.9/12.6	13/16.5
	Refrigerant liquid pipe		inches	1/4"	1/4"	1/4"	3/8"
	Refrigerant gas pipe		inches	1/2"	1/2"	1/2"	5/8"
	0	Wired		Not available	Not available	Not available	Not available
	Controller	Infrared		RCV01 (S)*	RCV01 (S)*	RCV01 (S)*	RCV01 (S)*

^{*} O: optional, S: standard.





CBV

CASSETTE 600X600

- > New particular design
- > Quiet operation
- > Built-in high head drain pump
- > Fresh air inlet
- > Wired controller RWV01 included on standard
- > EEV inside

PRODUCT ADVANTAGES

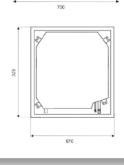
- > The cassette external dimension is 570x570x260mm for easy installation. It is universal and harmony with standard ceiling 600x600mm. There is no breakage for ceiling during installation.
- > Airflow pass through the outlet smoothly and fluently owing to the streamline air outlet. Bring you a much more quiet space. The fan blade adopts the design of irregular helix. The indoor unit can run at the lowest sound level.
- > Built-in Drain Pump drains water automatically. A standard drain-head height of up to 600mm 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).

CBV TECHNICAL DATA

		Model		CBV 009	CBV 012	CBV 016
		Code		7SP04H001	7SP04H002	7SP04H003
CAPACITY	Cooling		kBtu/H	9.5	12.3	15.3
			kW	2.8	3.6	4.5
	Hooting		kBtu/H	10.9	13.6	17.1
	Heating		kW	3.2	4	5
ELECTRICAL PARAMETERS	Power supp	y	Ph/V/Hz	1/220~230/50	1/220~230/50	1/220~230/50
PERFORMANCE	Air flow (H/N	1/L)	m³/h	700	700	700
	Noise level (H/M/L)	dB(A)	32/30/29	32/30/29	33/30/29
INSTALLATION	External dim	ensions (W/D/H)	mm	570/570/260	570/570/260	570/570/260
	Shipping dimensions (W/D/H)		mm	718/680/380	718/680/380	718/680/380
	Net/Shippin	g 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"
PANEL	Code panel			7ACVFH001	7ACVFH001	7ACVFH001
	External dimensions (W/D/H)		mm	700/700/60	700/700/60	700/700/60
	Shipping dimensions (W/D/H)		mm	740/750/115	740/750/115	740/750/115
	Net/Shipping weight		kg	2.8/4.8	2.8/4.8	2.8/4.8
	Controllor	Wired		RWV01 (S)*	RWV01 (S)*	RWV01 (S)*
Controller		Infrared		RCV01 (O)*	RCV01 (O)*	RCV01 (O)*

^{*} O: optional, S: standard.

Dimensions: 009-012-016 models















RWV03 (optional)

CCV

CASSETTE 900X900

- > Compact design
- > Advance structure facilitating cleanin and installation
- > Fresh air inlet
- > New particular panel design
- > EEV inside
- > Wired controller RWV01 included on standard

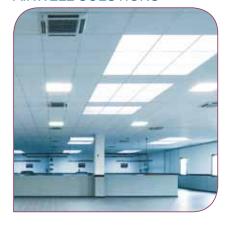
PRODUCT ADVANTAGES

- > Adopt the compact design the thick of the main body is only 290mm. 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, harmoney with the environment and with consistance appearance.

■ Dimensions: 024-030-048 models

CCV TECHNICAL DATA

		Model		CCV 024	CCA 030	CCV 048
		Code		7SP04H005	7SP04H007	7SP04H009
CAPACITY	Ocalina		kBtu/H	24.2	30.7	47.7
	Cooling		kW	7.1	9	14
	Heating		kBtu/H	27.3	34.1	54.6
			kW	8	10	16
ELECTRICAL PARAMETERS	Power supply		Ph/V/Hz	1/220~230/50	1/220~230/50	1/220~230/50
PERFORMANCE	Air flow (H/M/L)		m³/h	1200	1800	1800
0	Noise level (H/M/L)		dB(A)	35/34/31	37/35/31	42/39/35
INSTALLATION	External dime	nsions (W/D/H)	mm	840/840/240	840/840/295	840/840/295
	Shipping dimensions (W/D/H)		mm	930/930/330	930/930/390	930/930/390
	Net/Shipping weight		kg	30/36	38/40	38/40
	Refrigerant liquid pipe		inches	3/8"	3/8"	3/8"
	Refrigerant ga	Refrigerant gas pipe		5/8"	5/8"	5/8"
PANEL	Code panel			7ACVFH002	7ACVFH002	7ACVFH002
	External dimensions (W/D/H)		mm	950/950/80	950/950/80	950/950/80
	Shipping dimensions (W/D/H) Net/Shipping weight		mm	985/985/115	985/985/115	985/985/115
			kg	6/9	6/9	6/9
	Controllor	Wired		RWV01 (S)*	RWV01 (S)*	RWV01 (S)*
	Controller	Infrared		RCV01 (O)*	RCV01 (O)*	RCV01 (O)*



^{*} O: optional, S: standard.





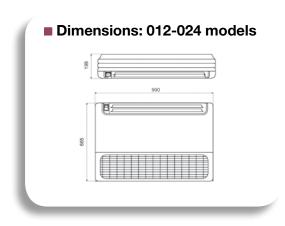
FAV

FLOOR & CEILING

- > Ultra-thin unit body, only thick 199mm (24 model)
- > Wide-angle airflow
- > Quiet running
- > EEV inside
- > Wired controller RWV01 included on standard

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 iar 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

		Model		FAV 012	FAV 024
		Code		7SP02H008	7SP02H011
CAPACITY	Cooling		kBtu/H	12.3	24.2
	Cooming		kW	3.6	7.1
	Heating		kBtu/H	13.6	27.3
	пеацпу		kW	4	8
ELECTRICAL PARAMETERS	Power supply		Ph/V/Hz	1/220~230/50	1/220~230/50
PERFORMANCE	Air flow (H/N	Air flow (H/M/L)		800	800
	Noise level (H/M/L)		dB(A)	48/46/44	48/46/44
INSTALLATION	External dim	nensions (W/D/H)	mm	990/665/199	990/665/199
	Shipping dimensions (W/D/H)		mm	1150/750/300	1150/750/300
	Net/Shippin	g weight	kg	28.3/34.3	28.3/34.3
	Refrigerant I	iquid pipe	inches	1/4"	3/8"
	Refrigerant gas pipe		inches	1/2"	5/8"
	Controller	Wired		RWV01 (S)*	RWV01 (S)*
		Infrared		RCV01 (O)*	RCV01 (O)*

* O: optional, S: standard.





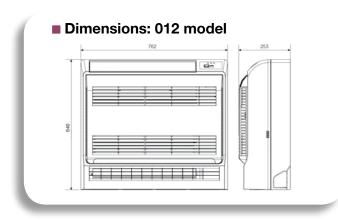


EVACONSOLE

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

PRODUCT ADVANTAGES

- > The unit adopt 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.



EVA TECHNICAL DATA

		Model		EVA 012
		Code		7SP05H002
CAPACITY	Cooling		kBtu/H	12.3
	Cooling		kW	3.6
	Ua atina		kBtu/H	13.6
	Heating		kW	4
ELECTRICAL PARAMETERS	Power supply		Ph/V/Hz	1/220~230/50
PERFORMANCE	Air flow (H/M/L)	m³/h	520
	Noise level (H/I	M/L)	dB(A)	43/39/36
INSTALLATION	External dimen	sions (W/D/H)	mm	762/253/640
	Shipping dimer	nsions (W/D/H)	mm	784/305/719
	Net/Shipping w	veight	kg	18/20
	Refrigerant liqu	iid pipe	inches	1/4"
	Refrigerant gas	s pipe	inches	1/2"
	0 . "	Wired		/
	Controller	Infrared		RCV01 (S)*

* O: optional, S: standard.















to combined (optional) with RCV 01)

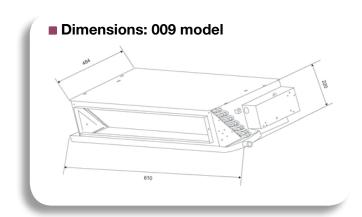
DAV

DUCTED LOW STATIC PRESSURE

- > 220 ultra thin design and space saving
- > Elegant outlook fit with your style
- > Optional air return design
- > Optional static pressure
- > High efficiency filter G3
- > EEV inside
- > Wired controller RWV01 included on standard

PRODUCT ADVANTAGES

- > Ultra thick design make all the models have only 220mm 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.
- > Ther 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.



DAV TECHNICAL DATA

		Model		AD092MLERA
		Code		7SP03H002
CAPACITY	Oline		kBtu/H	9.5
	Cooling		kW	2.8
	Heating		kBtu/H	10.9
	neating		kW	3.2
ELECTRICAL PARAMETERS	Power supply		Ph/V/Hz	1/220~230/50
PERFORMANCE	Air flow (H/M/L)		m³/h	400
	Noise level (H/M/	/L)	dB(A)	35/32/30
INSTALLATION	External dimensi	ons (W/D/H)	mm	610/484/220
	Shipping dimensions (W/D/H)		mm	710/545/280
	Net/Shipping we	ight	kg	15/17
	Refrigerant liquio	l pipe	inches	1/4"
	Refrigerant gas p	oipe	inches	3/8"
	Static pressure		Pa	20
	Controller	Wired		RWV01 (S)*
	Controller	Infrared		RCV01 (O)*



^{*} O: optional, S: standard.





DBV

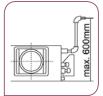
DUCTED MEDIUM STATIC PRESSURE

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

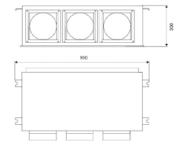
PRODUCT ADVANTAGES

- > 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 600mm.





■ Dimensions: 018-028 models



■ Dimensions: 038 model



DBV TECHNICAL DATA

		Model		DBV 018	DBV 028	DBV 038
Code				7SP03H007	7SP03H009	7SP03H011
CAPACITY	Cooling		kBtu/H	19.1	27.3	38.2
			kW	5.6	8	11.2
	Hooting		kBtu/H	21.5	30.7	42.6
	пеашу	Heating		6.3	9	12.5
ELECTRICAL PARAMETERS	Power supply		Ph/V/Hz	1/220~230/50	1/220~230/50	1/220~230/50
PERFORMANCE	Air flow (H/M/L)		m³/h	1200	1200	1900
	Noise leve	I (H/M/L)	dB(A)	43/37/35	43/37/35	43/37/35
INSTALLATION	External dimensions (W/D/H)		mm	990/650/300	990/650/300	1410/645/350
	Shipping dimensions (W/D/H)		mm	1167/860/345	1167/860/345	1557/800/370
	Net/Shipping weight		kg	39/45	39/45	59/66
	Refrigerant liquid pipe		inches	1/4"	3/8"	3/8"
	Refrigeran	Refrigerant gas pipe		1/2"	5/8"	5/8"
	Static pres	Static pressure		50	50	50
	Controllor	Wired		RWV01 (S)*	RWV01 (S)*	RWV01 (S)*
	Controller	Infrared		RCV01 (O)*	RCV01 (O)*	RCV01 (O)*



^{*} O: optional, S: standard.



Notes

AIRWELL RANGE FlowLogic II Range - Accessories

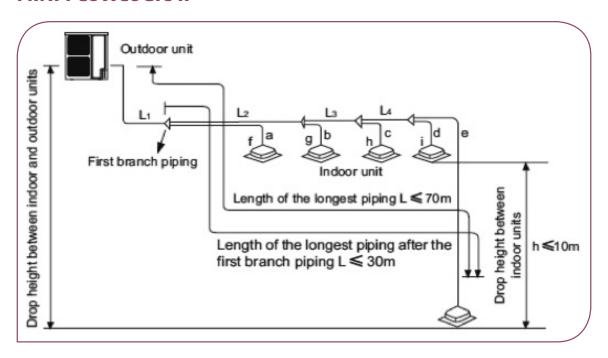
NAME		CODE	MODEL	
Infrared controller	2.62	7ACELH001	RCV01	
Infrared controller receiver		7ACELH009	REC01	
Wired standard controller		7ACELH002	RWV01	
Simplified controller	ECCU.	7ACELH008	RWV03	
Central controller "Touch screen"		7ACELH003	RWV02	
Connecting board	Contains in	7ACELH004	ADV01	
Gather pipe	7	7ACFHH005	TAS20	
Gather pipe	YYY	7ACFHH006	TAS30	
Manifild pipe	77	7ACFHH001	TAU335	
Manifild pipe	77	7ACFHH002	TAU506	
Manifild pipe	77	7ACFHH003	TAU730	
Manifild pipe	77	7ACFHH004	TAU1350	
Inverter protocol adaptater	721	7ACELH007	ADV02	
RS485&232 converter + software	CKL iscara or an Ampiera isrma i axis uu	7ACELH005	BMV01	
IPC (Industrial personal computer) + software	adistrative and the second	7ACELH006	BMV02	

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 and group control (max. 16 indoor units)	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 wall mounted & console type)	
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
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	
Protocol adapter and data storeage	FlowLogic II	Mandatory with BVM01 and BVM02
BMS control (air conditioner edition)	FlowLogic II	
BMS control (BACnet protocol edition)	FlowLogic II	



Annexes

AVAILABLE PIPE LENGTH AND HEIGHT DIFFERENCE MINI FLOWLOGIC II



YCV 080

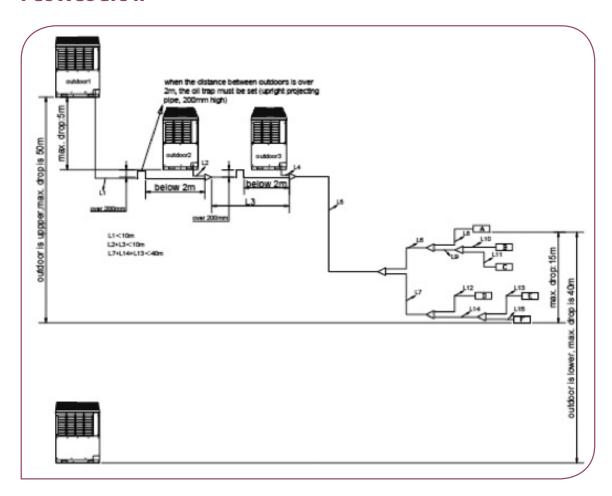
			Allowable value	Piping part
Total length of piping (actual lenght)		50 m	L1+L2+a+b+c	
LENGTH	Longest piping L	Actual length	35 m	L1+L2+c
	Max. pipe length from 1st branch pipe to indoor		15 m	L2+c
DROP	Drop between indeer and outdoor unit H	Outdoor is upper	30 m	-
	Drop between indoor and outdoor unit H Outdoor is lower		20 m	-
Drop between indoor units h			10 m	-

YCV 180

			Allowable value	Piping part
Total length of piping (actual lenght)		100 m	L1+L2+L3+L4+a+b+c+d+e	
LENGTH	Longest piping L	Actual length	70 m	L1+L2+L3+L4+e
	Max. pipe length from 1st branch pipe to indoo		30 m	L2+L3+L4+e
DROP	Dron between indeer and sutdeer with	Outdoor is upper	30 m	-
	Drop between indoor and outdoor unit H	Outdoor is lower	20 m	-
	Drop between indoor units h		10 m	-



AVAILABLE PIPE LENGTH AND HEIGHT DIFFERENCE FLOWLOGIC II

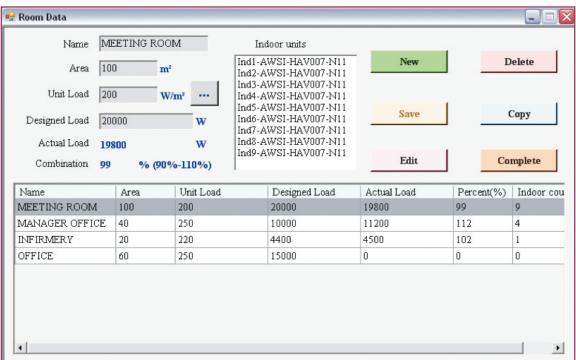


	Max. length	Pipe in above figure
Single way total pipe length	300 m	L1+L2+L3+L4+L5+L6+L7+L8+L9+L10+L11+L12+L13+L14+L15
Single way max. pipe length	150 m	L1+L3+L5+L7+L13+L14
Max. pipe length from 1st branch pipe	40 m	L7+L13+L14
Main pipe actual length	90 m	L5
Height difference between indoor units	15 m	-
Height difference between outdoor units	5 m	-

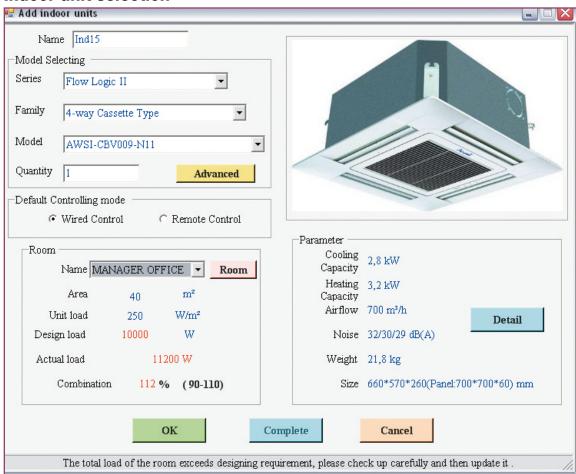


EXAMPLE OF "PRINT SCREEN" FROM OUR SELECTION SOFTWARE PROGRAM

Definition of the rooms

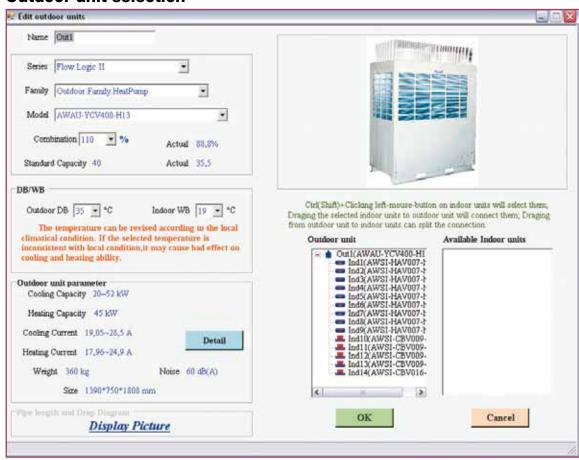


Indoor unit selection





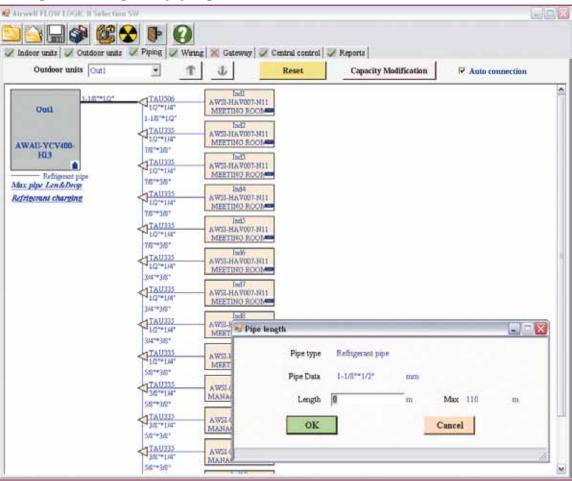
Outdoor unit selection



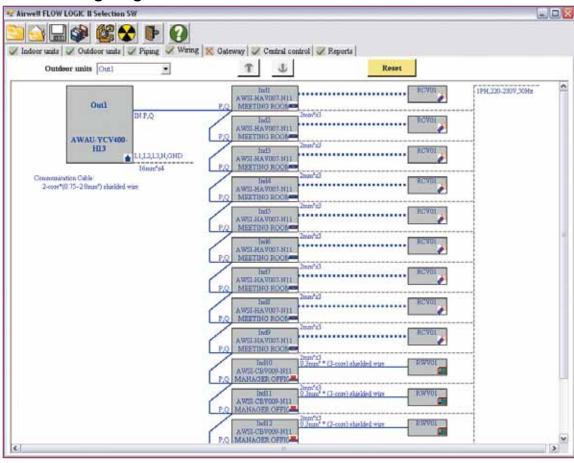




Refrigerant diagram piping



Cable wiring diagram





Notes



Notes





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