



# Airwell

*Just feel well*

**FLOWLOGIC**

Range of Variable  
Refrigerant Flow (VRF) solutions



# VRF range

Why choosing a VRF system?



## ■ One system for multiple applications



Shopping centers



Villas



Hostels



Offices

## ■ Extrem versatility

- Adaptable to all seasons
- Immediate change mode (heating/cooling)
- Extendable system
- Wide range of indoor units
- Anti-corrosion treatment on demand

**Blygold**<sup>®</sup>



HIGH WALL HBV



CASSETTE 600x600 CBV



360° CASSETTE CFV



FLOOR CEILING FAV



DUCTED LOW STATIC PRESSURE DDV



DUCTED MEDIUM STATIC PRESSURE DBV



DUCTED HIGH STATIC PRESSURE DCV



CONSOLE EAV



AHU CONNECTION KIT

## ■ Easy installation

- Professional selection software
- Easy setup (piping, electricity, regulation...)
- Ideal solution for refurbishment (easy installation also in inhabited places)

## Why choosing an Airwell VRF system?

- Wide range of power: from 3 to 72 HP (from 8 to 204 kW)
- Silent system
- Compact solution: small footprint
- High performance: COP until 4.5
- Certified Eurovent



## Performant system

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

The Scroll compressor used in the Airwell FlowLogic III range of VRF has been selected for its energy efficiency and high reliability. The Scroll compressor's spiro-orbital rotation mechanism reduces frictional pressure drop and ensures optimum efficiency over the entire frequency range.



### 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%.



### HEAT EXCHANGER ADOPTS THE SUBCOOLING TECHNOLOGY: HIGH EFFICIENCY

- The system is cooled with little refrigerant.
- Improve subcooling degree of refrigerant.
- Avoid energy loss due to refrigerant flash evaporating when it goes through PMV.
- W-model Ø8 innergrooved tube.
- Hydrophilic aluminium coil fin, it will increase efficiency of heat exchange by 5%.

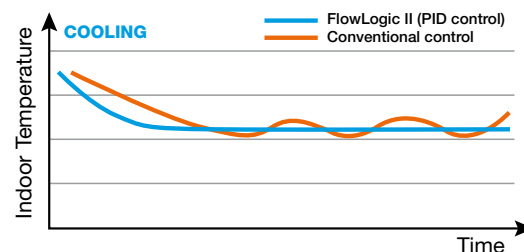
**Increase the efficiency of system**



- **Increase cooling power by 6%.**
- **Reduce refrigerant circulation amounts.**

### PRECISE 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 can be controlled precisely.





# VRF range

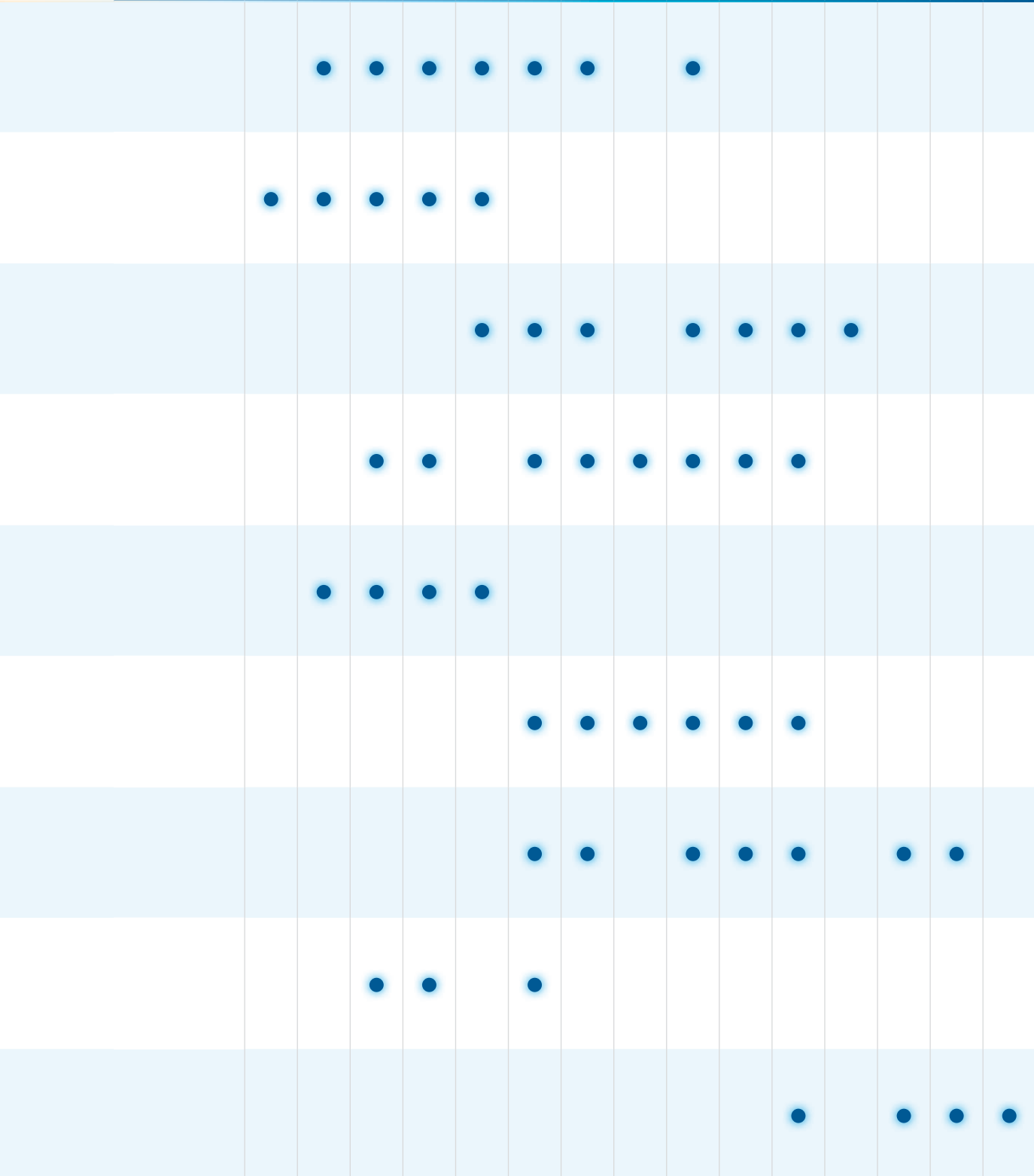
## Outdoor groups

MODEL NAME		Fluid type	Page	Capacity (HP)	Cooling power (kW)	Heating power (kW)	
MINI FLOWLOGIC II	YCV080		R410A	8	3	8	9.5
	YCV125				4	12.5	14
	YCV150		R410A	8	5	15	17
	YCV180				6	18	20
	YCVFD220					R410A	8
	YCVFD280	10	28	31.5			
	YCVFD335	12	33.5	37.5			
FLOWLOGIC III	YDV280		R410A	10	10	28	31.5
	YDV335				12	33.5	37.5
	YDV400				14	40	45
	YDV450				16	45	50
	YDV504		R410A	10	18	50.4	56.5
	YDV560				20	56	63
	YDV615				22	61.5	69
	YDV680				24	68	73
WATER FLOWLOGIC	YWC220		R410A	20	8	22.4	25.0
	YWC280				10	28	31.5
	YWC335				12	33.5	37.5

# VRF range Indoor units

MODEL NAME			Fluid type	Page
HIGH WALL	<b>HBV</b>		R410A	22
CASSETTE 600X600	<b>CBV</b>		R410A	23
360° CASSETTE	<b>CFV</b>		R410A	24
FLOOR CEILING	<b>FAV</b>		R410A	25
DUCTED LOW STATIC PRESSURE	<b>DDV</b>		R410A	26
DUCTED MEDIUM STATIC PRESSURE	<b>DBV</b>		R410A	27
DUCTED HIGH STATIC PRESSURE	<b>DCV</b>		R410A	28
CONSOLE	<b>EAV</b>		R410A	29
AHU CONNECTION KIT				30

Capacity (kBtu/h)	5	7	9	12	16	18	24	28	30	38	48	60	72	96	192
Capacity (HP)	0.5	0.75	1.25	1.5	1.75	2.25	3	3.5	3.75	4.75	6	7	9	12	24
Cooling (kW)	1.5	2.2	2.8	3.6	4.5	5.6	7.1	8	9	11.2	14	16	22.6	28	56
Heating (kW)	1.7	2.5	3.2	4	5	6.3	8	9	10	12.5	16	18	25	31.5	63





VRF  
Outdoor units

# MINI FLOWLOGIC II

## 2-PIPES - FRONT DISCHARGE

Available in  
tropicalised version



### + PRODUCTS

- DC Inverter rotary compressor
- DC Inverter electric fan
- Integrated machine interface (HMI)
- Reduced dimension



RWW06  
(optional)



RWW08  
(optional)

### FEATURES

#### TECHNOLOGY:



DC INVERTER



BLUE FIN TREATMENT

#### INSTALLER FUNCTIONS:



SELF DIAGNOSTIC



BMS COMPATIBLE



SERVICE MONITOR TOOL

### CERTIFICATION

AIRWELL participates in the ECP programme for AC1.  
Check ongoing validity of certificate:  
[www.eurovent-certification.com](http://www.eurovent-certification.com)



\* models so marked are not Eurovent certified

### THE « SUSTAINABLE DEVELOPMENT »

→ Low consumption and optimised regulation for greater energy savings

### THE « USER »

- Mode lock
- Centralised management

### THE « INSTALLER »

- Up to 300 m of refrigeration network and 50 m of height difference.
- Access to all parameters via the HMI for easier maintenance

### THE « TECHNOLOGY »

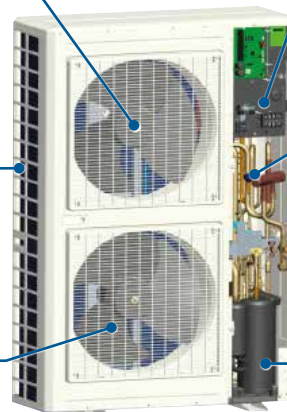
- Up to 16 indoor units, performance certified by Eurovent\* (8,10,12 HP)

**High efficiency DC fan motor:**  
DC fan motor with stepless inverter control, efficiency increased by 45% compared with AC motor and power input.

**High efficiency condenser:**  
Ø8 inner grooved tube; hydrophilic corrugated fissure fin.

**Large diameter fan:**  
570 mm big diameter axial flow fan; zigzag design, reduce airflow disturbance, air volume is bigger, the noise is lower.

10-12 HP











**Vector inverter control:**  
180 degrees sine wave vector control, 64-bit operation; high precision control, to achieve high efficiency and lower noise.

**Double pressure sensor:**  
equipped with high and low voltage; pressure double sensors; accurate pressure control, the system runs more smoothly, and is more energy efficient.




**Twin rotary DCI compressor:**  
high chamber DC Inverter twin rotary compressor; small vibration, low noise, high energy efficiency.



## MINI FLOWLOGIC II TECHNICAL DATA

Outdoor unit		AWAU-YCV080-H11*	AWAU-YCV125-H11*	AWAU-YCV150-H11*	AWAU-YCV150-H13*	AWAU-YCV180-H13*	AWAU-YCVFD220-H13	AWAU-YCVFD280-H13	AWAU-YCVFD335-H13
Phase		Single phase	Single phase	Single phase	Three phase	Three phase	Three phase	Three phase	Three phase
Part number		7SP14H045	7SP14H041	7SP14H042	7SP14H044	7SP14H043	7SP14H010	7SP14H011	7SP14H012
									
<b>RATED POWER</b>									
Cooling	kW	8	12.5	15	15	18	22.6	28	33.5
EER		3.64	3.79	3.77	3.77	3.47	3.9	3.5	3.44
Heating	kW	9.5	14	17	17	20	25	31.5	37.5
COP		4.31	4.12	4.35	4.35	3.9	4.6	4.2	3.90
<b>ELECTRICAL PARAMETERS</b>									
Phase/Voltage/Frequency		1P/220-240/50Hz/N	1P/220-240/50-60Hz/N			3P/400V/50Hz/N			
Cooling rated power input	kW	2.20	3.30	3.98	3.98	5.19	5.79	8	9.75
Heating rated power input	kW	2.20	3.40	3.91	3.91	5.13	5.43	7.5	9.62
Max. current	A	18.9	34.1	34.1	11.2	11.6	17.2	23.8	26
<b>PERFORMANCE</b>									
Airflow (HS)	m³/h	3500	6500	6500	6500	6500	10000	10000	10000
Sound pressure level (HS)	dB(A)	54	57	58	58	59	55	58	60
Sound power level (HS)	dB(A)	65	68	69	69	70	66	69	71
<b>INSTALLATION</b>									
External dimensions (WxHxD)	mm	960x830x340	960x1250x340	960x1250x340	960x1250x340	960x1250x340	1050x1636x400	1050x1636x400	1050x1636x400
Shipping dimensions (WxHxD)	mm	1095x945x410	1095x1400x410	1095x1400x410	1095x1400x410	1095x1400x410	1150x1790x510	1150x1790x510	1150x1795x510
Net weight/Gross weight	kg	70/76	99/107	99/107	99/107	99/107	168/183	168/183	168/183
Compressor type		Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
Liquid pipe diameter	inches	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"
Suction pipe diameter	inches	5/8"	3/4"	3/4"	3/4"	3/4"	3/4"	7/8"	1"
Max. pipe length	m	100	150	150	150	150	175/150	300	300
Max. height between indoor and outdoor units*	m	30	30	30	30	30	50	50	50
Maximum indoor units connectable	quantity	4	8	8	8	9	13	16	16
<b>OPERATING LIMITS</b>									
Cooling	°C	10°/48°	-5°/48°	-5°/48°	-5°/48°	-5°/48°	-5°/43°	-5°/43°	-5°/43°
Heating	°C	-15°/21°	-15°/21°	-15°/21°	-15°/21°	-15°/21°	-15°/21°	-15°/21°	-15°/21°
<b>PIPE LINE</b>									
Refrigerant/GWP		R410A/2088	R410A/2088	R410A/2088	R410A/2088	R410A/2088	R410A/2088	R410A/2088	R410A/2088
Charge (0 m)	kg	2.4	3.8	3.8	3.8	3.8	6.1	7.4	7.4

## ACCESSORIES

Accessory	Part number	Code	Photo	Function	Comment
Manifold pipe (gas + liquid)	7ACFHH001	TAU335		Refrigerant gathering	33.5 kW > Total indoor units power
	7ACFHH002	TAU506		Refrigerant gathering	33.5 kW ≤ Total indoor units power < 50.6 kW
Central controller gateway and ModBus/RTU	7ACELH027	ADV05		RWV06 and RWV08 adaptor and ModBus/RTU gateway	
Maintenance tool	7ACELH014	TD02		Working parameters monitoring and recording tool	



VRF  
Outdoor units

# FLOWLOGIC III

## 2-PIPES - TOP DISCHARGE



Available in  
tropicalised version

### + PRODUCTS

- DC Inverter scroll compressor
- Wide capacity range
- Wide temperature range (-23/+50 °C)
- Very small footprint: 0.97 m<sup>2</sup>



RWW06  
(optional)



RWW08  
(optional)

### FEATURES

#### TECHNOLOGY:



DC INVERTER



BLUE FIN TREATMENT

#### INSTALLER FUNCTIONS:



SELF DIAGNOSTIC



BMS COMPATIBLE



SERVICE MONITOR TOOL

### CERTIFICATION

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[www.eurovent-certification.com](http://www.eurovent-certification.com)



### THE «SUSTAINABLE DEVELOPMENT»

→ Low consumption and optimised regulation for greater energy savings

### THE «USER»

→ Capacity range from 8 to 72 HP

→ Large choice of indoor units

### THE «INSTALLER»

→ Up to 1000 m of refrigeration network and 110 m of height difference

→ Access to all parameters *via* the HMI for easier commissioning and maintenance

### THE «TECHNOLOGY»

→ Anti-corrosion treatment

→ Up to 64 indoor units

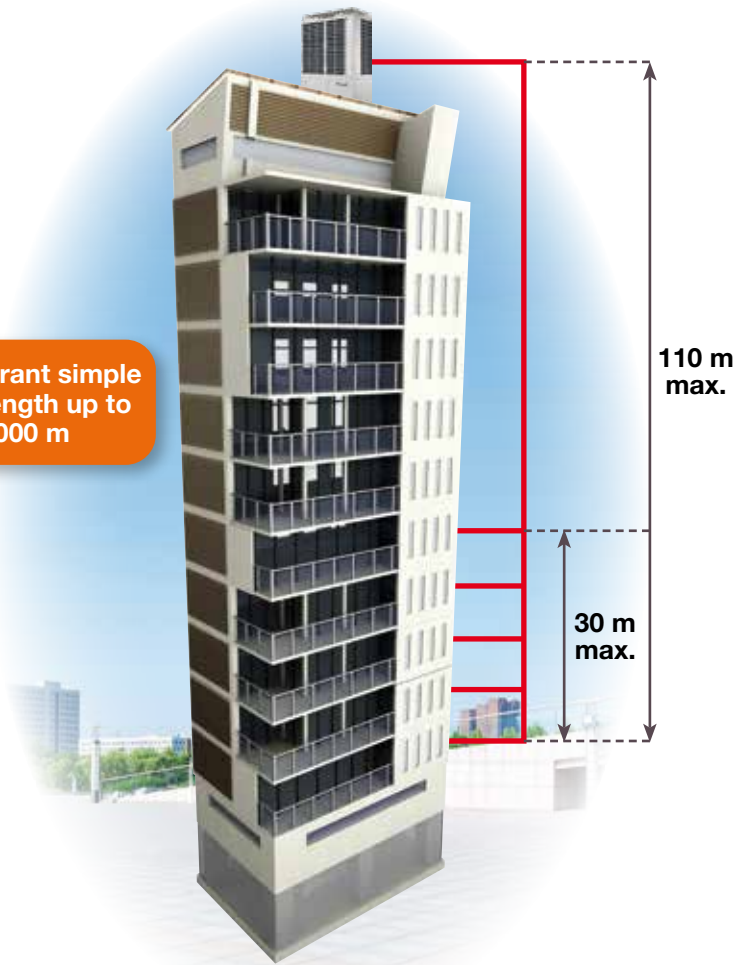
→ Performance certified by Eurovent

### ACCESSORIES

Accessory	Part number	Code	Photo	Function	Comment
Gather pipe kit for 2 outdoor groups	7ACFHH013	TBS20		Refrigerant gathering	For 2 outdoor groups
Gather pipe kit for 3 outdoor groups	7ACFHH014	TBS30		Refrigerant gathering	For 3 outdoor groups
Manifold pipe (gas + liquid)	7ACFHH001	TAU335		Refrigerant gathering	33.5 kW > Total IDU power
	7ACFHH002	TAU506		Refrigerant gathering	33.5 kW ≤ Total IDU power < 50.6 kW
	7ACFHH003	TAU730		Refrigerant gathering	50.6 kW ≤ Total IDU power < 73 kW
	7ACFHH004	TAU1350		Refrigerant gathering	73 kW ≤ Total IDU power < 135 kW
	7ACFHH015	TAU2040		Refrigerant gathering	135 kW ≤ Total IDU power
Central controller gateway and ModBus/RTU	7ACELH027	ADV05		RWW06 and RWW08 adaptor and ModBus/RTU gateway	
Maintenance tool	7ACELH014	TD02		Working parameters monitoring and recording tool	

**HIGH MODULARITY: LONG PIPE LENGTH, HIGH HEIGHT DROP**

Refrigerant simple pipe length up to 1000 m



- Floor area optimized for all the product range (same foot print for all modules: 0.97 m<sup>2</sup>)
- One of the smallest footprint on market

- Full DC Inverter
- 2 x Full DC Inverter



→ 0.97 m<sup>2</sup>

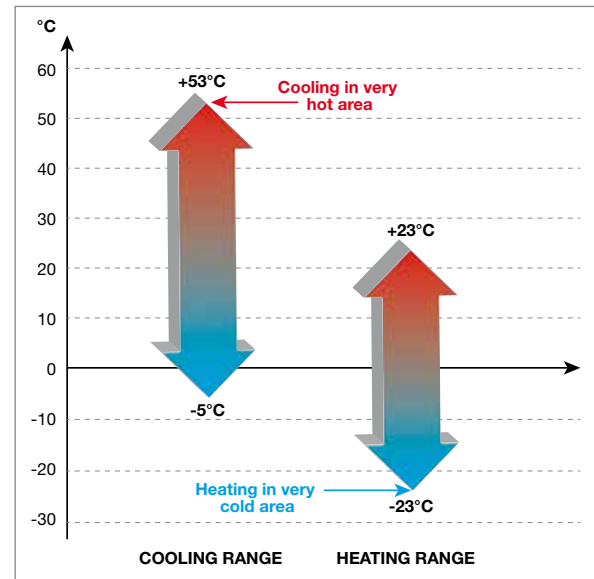


■ **High static pressure outdoor unit:**  
**82 Pa, long air duct**



**Hidden solution:**  
installation of  
outdoor unit in a  
technical room

■ **Wide operation range**



→ **Specific design:**

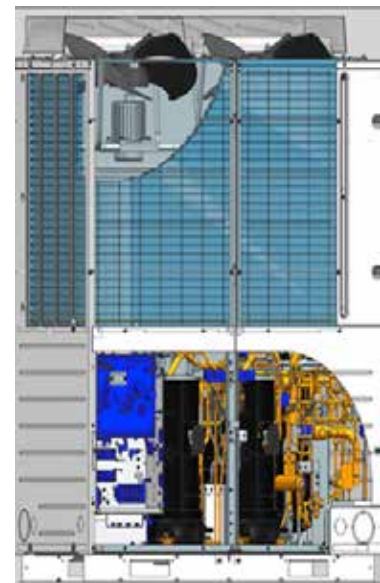
- Double EEV
- Two-piece condenser
- Independent electrical box

→ **Reliability/Maintenance:**

- Compressor double protection: two pressure sensors
- Double oil temperature sensor
- Large volume gas-liquid separator (26L) + liquid storage tank (10L)
- Two floor structure (no air bypass during maintenance): efficient measures

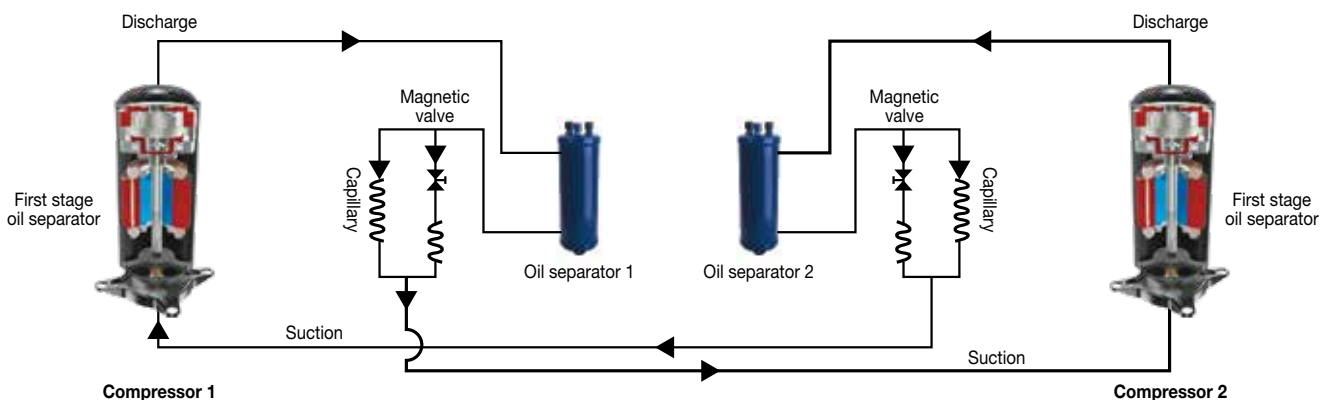
→ **Fan:**

- Optimized fan to reduce air vibration
- DC fan to optimize efficiency
- 82 Pa static pressure





■ **Specific oil return**

- Magnetic valve
- If the compressor operate at low frequency, oil return is only with capillary.
- If the compressor operate at higher frequency, PCB control magnetic valve to improve oil return.





## FLOWLOGIC III TECHNICAL DATA

Outdoor unit	AWAU-YDV 280-H13	AWAU-YDV 335-H13	AWAU-YDV 400-H13	AWAU-YDV 450-H13	AWAU-YDV 504-H13	AWAU-YDV 560-H13	AWAU-YDV 615-H13	AWAU-YDV 680-H13
Part number	7SP14H030	7HP14H031	7SP14H032	7SP14H033	7SP14H034	7SP14H035	7SP14H036	7SP14H037
Outdoor unit Tropicalized version - Drop only	AW-YDV 280TR-H13	AW-YDV 335TR-H13	AW-YDV 400TR-H13	AW-YDV 450TR-H13	AW-YDV 504TR-H13	AW-YDV 560TR-H13	AW-YDV 615TR-H13	AW-YDV 680TR-H13
Part number	7SP14H058	7SP14H059	7SP14H060	7SP14H061	7SP14H062	7SP14H063	7SP14H064	7SP14H065
Phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
								

### POWERS

Capacity range	HP	10	12	14	16	18	20	22	24
Cooling	kW	28	33.5	40	45	50.4	56	61.5	68
Heating	kW	31.5	37.5	45	50	56.5	63	69	73

### ELECTRICAL PARAMETERS

Phase/Voltage/Frequency		3P/380-400V/50-60Hz/N								
Cooling	Rated power input	kW	7.00	8.59	10.26	11.90	13.62	15.56	17.57	19.71
	Power input max.	kW	14.38	14.73	16.91	22.68	22.10	25.19	30.56	37.47
	Rated current	A	11.56	14.19	16.94	19.66	22.50	25.69	29.02	32.55
	Current max.	A	23.68	25.1	28.40	36.80	36.15	41.10	49.65	60.65
Heating	Rated power input	kW	7.08	8.72	10.71	12.05	13.95	15.95	18.16	19.47
	Power input max.	kW	13.23	13.68	15.60	17.20	22.68	25.19	27.72	28.62
	Rated current	A	11.69	14.40	17.69	19.90	23.04	26.34	29.99	32.15
	Current max.	A	21.79	22.1	25.20	27.88	37.80	42.00	46.05	47.40
EER		4.00	3.90	3.90	3.78	3.70	3.60	3.50	3.45	
Seasonal energy efficiency		274	269	255	236	242	233	229	223	
COP		4.45	4.30	4.20	4.15	4.05	3.95	3.80	3.75	
Seasonal energy efficiency		199	193	185	163	165	163	154	149	

### PERFORMANCE

Airflow	Heating	m³/h	15000	15000	15000	15600	16200	16200	16200	16200
	Cooling	m³/h	13200	13200	13200	14400	15000	15000	15000	15000
Sound pressure level to 1 m		dB(A)	57	59	59.5	61	62	62	62	63
Sound power level		dB(A)	73	75	76	77	79	79	79	80

### INSTALLATION

Dimensions (WxHxD)	mm	1350x1690x720	1350x1690x720	1350x1690x720	1350x1690x720	1350x2048x720	1350x2048x720	1350x2048x720	1350x2048x720	
Refrigerant/GWP		<b>R410A/2088</b>								
Refrigerant charge	kg	9.7	9.7	10	10	10	10	10	10	
Net weight/Gross weight	kg	276/301	276/301	279/304	321/346	335/360	335/360	359/384	359/384	
Compressor type		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	
Tubing	Liquid pipe diameter	inches	3/8"	1/2"	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"
	Suction pipe diameter	inches	7/8"	1"	1"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"
	Oil equalization pipe	inches	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
	Max. tube length	m	1000	1000	1000	1000	1000	1000	1000	1000
Max. height between indoor and outdoor units (ODU up/down)	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40	
Max. height between indoor units	m	18	18	18	18	18	18	18	18	
External static pressure	Pa	82	82	82	82	82	82	82	82	
Environment temperature range	Cooling	°C	-5°/50°							
	Heating	°C	-23°/21°							
Maximum indoor units connectable	quantity	20	24	29	33	37	41	45	49	



### TECHNICAL DATA FOR TWO COMBINATIONS

Outdoor unit	YDV735-H13	YDV800-H13	YDV850-H13	YDV904-H13	YDV950-H13	YDV1010-H13
Phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
Combinations part number	YDV335 / 7SP14H031	YDV400 / 7SP14H032	YDV400 / 7SP14H032	YDV400 / 7SP14H032	YDV450 / 7SP14H033	YDV450 / 7SP14H033
	YDV400 / 7SP14H032	YDV400 / 7SP14H032	YDV450 / 7SP14H033	YDV504 / 7SP14H034	YDV504 / 7SP14H034	YDV560 / 7SP14H035
						

#### POWERS

	HP	26	28	30	32	34	36
Capacity range							
Cooling	kW	73.5	80	85	90.4	95.4	101
Heating	kW	82.5	90	95	101.5	106.5	113

#### ELECTRICAL PARAMETERS

Phase/Voltage/Frequency		3P/380-400V/50-60Hz/N						
Cooling	Rated power input	kW	18.85	20.51	22.16	23.88	25.53	27.46
	Power input max.	kW	31.64	33.81	39.59	39.00	44.78	47.87
	Rated current	A	31.12	33.88	36.60	39.43	42.16	45.35
	Current max.	A	53.5	56.80	65.20	64.55	72.95	77.90
Heating	Rated power input	kW	19.44	21.43	22.76	24.66	26.00	28.00
	Power input max.	kW	29.28	31.20	32.80	38.28	39.88	42.39
	Rated current	A	32.10	35.39	37.59	40.73	42.94	46.24
	Current max.	A	47.3	50.40	53.08	63.00	65.68	69.88
EER			3.90	3.90	3.84	3.79	3.74	3.68
COP			4.24	4.20	4.17	4.12	4.10	4.04

#### PERFORMANCE

		m³/h	30000	30000	30600	31200	31480	31480
Airflow	Heating							
	Cooling	m³/h	26400	26400	27600	28200	29400	29400
Sound pressure level to 1 m			62	62.5	63	64	64.5	64.5
Sound power level			79	80	80	81	82	82

#### INSTALLATION

Dimensions (WxHxD)		mm	(1350x1690x720)x2	(1350x1690x720)x2	(1350x1690x720)x2	1350x1690x720 + 1350x2048x720	1350x1690x720 + 1350x2048x720	1350x1690x720 + 1350x2048x720
Refrigerant/GWP			<b>R410A/2088</b>					
Refrigerant charge		kg	10+10	10+10	10+10	10+10	10+10	10+10
Net weight/Gross weight		kg	276/301 + 279/304	279/304 + 279/304	279/304 + 321/346	321/346 + 335/360	321/346 + 335/360	321/346 + 335/360
Compressor type			Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Tubing	Liquid pipe diameter	inches	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	Suction pipe diameter	inches	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4
	Oil equalization pipe	inches	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
	Max. tube length	m	1000	1000	1000	1000	1000	1000
Max. height between indoor and outdoor units (ODU up/down)		m	50/40	50/40	50/40	50/40	50/40	50/40
Max. height between indoor units		m	18	18	18	18	18	18
External static pressure		Pa	82	82	82	82	82	82
Environment temperature range	Cooling	°C	-5°/50°					
	Heating	°C	-23°/21°					
Maximum indoor units connectable		quantity	53	58	62	64	64	64

**TECHNICAL DATA FOR TWO COMBINATIONS**

Outdoor unit	YDV1064-H13	YDV1120-H13	YDV1175-H13	YDV1240-H13	YDV1295-H13	YDV1360-H13
Phase	Three phase	Three phase	Three phase	Three phase	Three phase	Three phase
Combinations part number	YDV504 / 7SP14H034	YDV560 / 7SP14H035	YDV560 / 7SP14H035	YDV560 / 7SP14H035	YDV615 / 7SP14H036	YDV680 / 7SP14H037
	YDV560 / 7SP14H035	YDV560 / 7SP14H035	YDV615 / 7SP14H036	YDV680 / 7SP14H037	YDV680 / 7SP14H037	YDV680 / 7SP14H037



**POWERS**

	HP	38	40	42	44	46	48
Capacity range							
Cooling	kW	106.4	112	117.5	124	129.5	136
Heating	kW	119.5	126	132	136	142	146

**ELECTRICAL PARAMETERS**

Phase/Voltage/Frequency		3P/380-400V/50-60Hz/N						
Cooling	Rated power input	kW	29.18	31.11	33.13	35.27	37.28	39.42
	Power input max.	kW	47.28	50.37	55.75	62.66	68.03	74.94
	Rated current	A	48.19	51.38	54.71	58.24	61.57	65.10
	Current max.	A	77.25	82.20	90.75	101.55	110.1	120.90
Heating	Rated power input	kW	29.90	31.90	34.11	35.42	37.62	38.93
	Power input max.	kW	47.87	50.37	52.91	53.81	56.34	57.24
	Rated current	A	49.38	52.68	56.33	58.49	62.14	64.30
	Current max.	A	19.80	84.00	88.05	89.40	93.45	94.80
EER		3.65	3.60	3.55	3.52	3.47	3.45	
COP		4.00	3.95	3.87	3.84	3.77	3.75	

**PERFORMANCE**

Airflow	Heating	m³/h	32400	32400	32400	32400	32400	32400
	Cooling	m³/h	30000	30000	30000	30000	30000	30000
Sound pressure level to 1 m		dB(A)	65	65	65	65.5	65.5	66
Sound power level		dB(A)	83	83	83	83	83	84

**INSTALLATION**

Dimensions (WxHxD)	mm	(1350x2048x720) x2	(1350x2048x720) x2	(1350x2048x720) x2	(1350x2048x720) x2	(1350x2048x720) x2	(1350x2048x720) x2
Refrigerant/GWP		<b>R410A/2088</b>					
Refrigerant charge	kg	10+10	10+10	10+10	10+10	10+10	10+10
Net weight/Gross weight	kg	(335/360)x2	(335/360)x2	335/360 + 359/384	335/360 + 359/384	(359/384)x2	359/384 + 359/384
Compressor type		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Tubing	Liquid pipe diameter	inches	3/4"	3/4"	3/4"	3/4"	3/4"
	Suction pipe diameter	inches	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4
	Oil equalization pipe	inches	3/8"	3/8"	3/8"	3/8"	3/8"
	Max. tube length	m	1000	1000	1000	1000	1000
Max. height between indoor and outdoor units (ODU up/down)	m	50/40	50/40	50/40	50/40	50/40	50/40
Max. height between indoor units	m	18	18	18	18	18	18
External static pressure	Pa	82	82	82	82	82	82
Environment temperature range	Cooling	°C	-5°/50°				
	Heating	°C	-23°/21°				
Maximum indoor units connectable	quantity	64	64	64	64	64	64



### TECHNICAL DATA FOR THREE COMBINATIONS

Outdoor unit	YDV1408-H13	YDV1460-H13	YDV1514-H13	YDV1570-H13
Phase	Three phase	Three phase	Three phase	Three phase
Combinations part number	YDV400 / 7SP14H032	YDV450 / 7SP14H033	YDV450 / 7SP14H033	YDV450 / 7SP14H033
	YDV504 / 7SP14H034	YDV450 / 7SP14H033	YDV504 / 7SP14H034	YDV560 / 7SP14H035
	YDV504 / 7SP14H034	YDV560 / 7SP14H035	YDV560 / 7SP14H035	YDV560 / 7SP14H035

#### POWERS

	HP	50	52	54	56
Capacity range					
Cooling	kW	140.8	146	151.4	157
Heating	kW	158	163	169.5	176

#### ELECTRICAL PARAMETERS

Phase/Voltage/Frequency		3P/380-400V/50-60Hz/N				
Cooling	Rated power input	kW	37.50	39.37	41.08	43.02
	Power input max.	kW	61.10	70.55	69.96	73.05
	Rated current	A	61.93	65.01	67.85	71.04
	Current max.	A	100.70	114.70	114.05	119.00
Heating	Rated power input	kW	38.62	40.05	41.95	43.95
	Power input max.	kW	60.96	59.59	65.07	67.57
	Rated current	A	63.77	66.14	69.28	72.58
	Current max.	A	100.80	97.76	107.68	111.88
EER			3.75	3.71	3.69	3.65
COP			4.09	4.07	4.04	4.00

#### PERFORMANCE

Airflow	Heating	m³/h	44440	44440	48000	48000
	Cooling	m³/h	43200	43480	44440	44440
Sound pressure level to 1 m		dB(A)	66	66	66.5	66.5
Sound power level		dB(A)	84	84	85	85

#### INSTALLATION

Dimensions (WxHxD)	mm	1350x1690x720 + (1350x2048x720)x2	1350x1690x720 + (1350x2048x720)x2	1350x1690x720 + (1350x2048x720)x2	1350x1690x720 + (1350x2048x720)x2	
Refrigerant/GWP		R410A/2088				
Refrigerant charge	kg	10+10+10	10+10+10	10+10+10	10+10+10	
Net weight/Gross weight	kg	279/304 + (335/360)x2	321/346 + (335/360)x2	321/346 + (335/360)x2	(335/360)x3	
Compressor type		Scroll	Scroll	Scroll	Scroll	
Tubing	Liquid pipe diameter	inches	3/4"	3/4"	3/4"	3/4"
	Suction pipe diameter	inches	1"1/2	1"1/2	1"1/2	1"5/8
	Oil equalization pipe	inches	3/8"	3/8"	3/8"	3/8"
	Max. tube length	m	1000	1000	1000	1000
Max. height between indoor and outdoor units (ODU up/down)	m	50/40	50/40	50/40	50/40	
Max. height between indoor units	m	18	18	18	18	
External static pressure	Pa	82	82	82	82	
Environment temperature range	Cooling	°C	-5°/50°			
	Heating	°C	-23°/21°			
Maximum indoor units connectable	quantity	64	64	64	64	



**TECHNICAL DATA FOR THREE COMBINATIONS**

Outdoor unit	YDV1624-H13	YDV1680-H13	YDV1735-H13	YDV1800-H13
Phase	Three phase	Three phase	Three phase	Three phase
Combinations part number	YDV504 / 7SP14H034	YDV560 / 7SP14H035	YDV560 / 7SP14H035	YDV560 / 7SP14H035
	YDV560 / 7SP14H035	YDV560 / 7SP14H035	YDV560 / 7SP14H035	YDV560 / 7SP14H035
	YDV560 / 7SP14H035	YDV560 / 7SP14H035	YDV615 / 7SP14H036	YDV680 / 7SP14H037



**POWERS**

	HP	58	60	62	64
Capacity range					
Cooling	kW	162.4	168	173.5	180
Heating	kW	182.5	189	195	199

**ELECTRICAL PARAMETERS**

Phase/Voltage/Frequency		3P/380-400V/50-60Hz/N				
Cooling	Rated power input	kW	44.73	46.67	48,68	50.82
	Power input max.	kW	72.47	75.56	80,93	87.84
	Rated current	A	73.88	77.07	80,40	83.93
	Current max.	A	118.35	123.30	131,85	142.65
Heating	Rated power input	kW	45.85	47.85	50,06	51.37
	Power input max.	kW	73.05	75.56	78,09	78.99
	Rated current	A	75.72	79.02	82,67	84.83
	Current max.	A	121.80	126.00	130,05	131.40
EER		3.63	3.60	3,56	3.54	
COP		3.98	3.95	3,90	3.87	

**PERFORMANCE**

Airflow	Heating	m³/h	48600	48600	48600	48600
	Cooling	m³/h	45000	45000	45000	45000
Sound pressure level to 1 m		dB(A)	67	67	67	67
Sound power level		dB(A)	85	85	85	85

**INSTALLATION**

Dimensions (WxHxD)	mm	(1350x2048x720) x 3	(1350x2048x720) x 3	(1350x2048x720) x 2 + (1350x2048x720)	(1350x2048x720) x 3
Refrigerant/GWP		<b>R410A/2088</b>			
Refrigerant charge	kg	10+10+10	10+10+10	10+10+10	10+10+10
Net weight/Gross weight	kg	(335/360)x3	(335/360)x3	(335/360)x2 + (359/384)	(335/360)x2 + 359/384
Compressor type		Scroll	Scroll	Scroll	Scroll
Tubing	Liquid pipe diameter	inches	3/4"	3/4"	3/4"
	Suction pipe diameter	inches	1"5/8	1"5/8	1"5/8
	Oil equalization pipe	inches	3/8"	3/8"	3/8"
	Max. tube length	m	1000	1000	1000
Max. height between indoor and outdoor units (ODU up/down)	m	50/40	50/40	50/40	50/40
Max. height between indoor units	m	18	18	18	18
External static pressure	Pa	82	82	82	82
Environment temperature range	Cooling	°C	-5°/50°		
	Heating	°C	-23°/21°		
Maximum indoor units connectable	quantity	64	64	64	64



### TECHNICAL DATA FOR THREE COMBINATIONS

Outdoor unit	YDV1855-H13	YDV1920-H13	YDV1975-H13	YDV2040-H13
Phase	Three phase	Three phase	Three phase	Three phase
Combinations part number	YDV560 / 7SP14H035	YDV560 / 7SP14H035	YDV615 / 7SP14H036	YDV680 / 7SP14H037
	YDV615 / 7SP14H036	YDV680 / 7SP14H037	YDV680 / 7SP14H037	YDV680 / 7SP14H037
	YDV680 / 7SP14H037	YDV680 / 7SP14H037	YDV680 / 7SP14H037	YDV680 / 7SP14H037



#### POWERS

	HP	66	68	70	72
Capacity range					
Cooling	kW	185.5	192	197.5	204
Heating	kW	205	209	215	219

#### ELECTRICAL PARAMETERS

Phase/Voltage/Frequency		3P/380-400V/50-60Hz/N				
Cooling	Rated power input	kW	52.84	54.98	56.99	59.13
	Power input max.	kW	93.22	100.13	105.50	112.41
	Rated current	A	87.26	90.79	94.12	97.65
	Current max.	A	151.2	162.00	170.55	181.35
Heating	Rated power input	kW	53.57	54.88	57.09	58.40
	Power input max.	kW	81.53	82.43	84.96	85.86
	Rated current	A	88.48	90.64	94.29	96.45
	Current max.	A	135.45	136.80	140.85	142.20
EER			3.51	3.49	3.47	3.45
COP			3.83	3.81	3.77	3.75

#### PERFORMANCE

Airflow	Heating	m³/h	48600	48600	48600	48600
	Cooling	m³/h	45000	45000	45000	45000
Sound pressure level to 1 m		dB(A)	67	67.5	67.5	67.5
Sound power level		dB(A)	85	86	86	86

#### INSTALLATION

Dimensions (WxHxD)	mm	(1350x2048x720) x 3	(1350x2048x720) x 3	(1350x2048x720) x 3	(1350x2048x720) x 3	
Refrigerant/GWP		<b>R410A/2088</b>				
Refrigerant charge	kg	10+10+10	10+10+10	10+10+10	10+10+10	
Net weight/Gross weight	kg	(335/360)x2 + 359/384	335/360 + (359/384)x2	335/360 + (359/384)x2	335/360 + (359/384)x2	
Compressor type		Scroll	Scroll	Scroll	Scroll	
Tubing	Liquid pipe diameter	inches	7/8"	7/8"	7/8"	7/8"
	Suction pipe diameter	inches	1"3/4	1"3/4	1"3/4	1"3/4
	Oil equalization pipe	inches	3/8"	3/8"	3/8"	3/8"
	Max. tube length	m	1000	1000	1000	1000
Max. height between indoor and outdoor units (ODU up/down)	m	50/40	50/40	50/40	50/40	
Max. height between indoor units	m	18	18	18	18	
External static pressure	Pa	82	82	82	82	
Environment temperature range	Cooling	°C	-5°/50°			
	Heating	°C	-23°/21°			
Maximum indoor units connectable	quantity	64	64	64	64	





VRF  
Water condensing

# WATER FLOWLOGIC

## WATER CONDENSING VRF



### + PRODUCTS

- Water condensation
- Co-axial heat exchangers
- Compact design
- Quiet



RWV06  
(optional)



RWV08  
(optional)

### FEATURES

#### TECHNOLOGY:



DC INVERTER

#### INSTALLER FUNCTIONS:



SELF DIAGNOSTIC



BMS COMPATIBLE



SERVICE MONITOR TOOL

### THE «SUSTAINABLE DEVELOPMENT»

- High energy efficiency (COP > 6)
- Energy recovery from water loops

### THE «USER»

- 100% indoor application
- Practical and discreet solution

### THE «INSTALLER»

- Superimposed installation possible
- Up to 300 m of refrigeration network and 50 m height difference

### THE «TECHNOLOGY»

- Up to 59 indoor units
- Outside temperature does not affect performance

### ACCESSORIES

Accessory	Part number	Code	Photo	Function	Comment
Gather pipe kit for 2 outdoor groups	7ACFHH013	TBS20		Refrigerant gathering	For 2 outdoor groups
Gather pipe kit for 3 outdoor groups	7ACFHH014	TBS30		Refrigerant gathering	For 3 outdoor groups
Manifold pipe (gas + liquid)	7ACFHH001	TAU335		Refrigerant gathering	33.5 kW > Total IDU power
	7ACFHH002	TAU506		Refrigerant gathering	33.5 kW ≤ Total IDU power < 50.6 kW
	7ACFHH003	TAU730		Refrigerant gathering	50.6 kW ≤ Total IDU power < 73 kW
	7ACFHH004	TAU1350		Refrigerant gathering	73 kW ≤ Total IDU power < 135 kW
	7ACFHH015	TAU2040		Refrigerant gathering	135 kW ≤ Total IDU power
Central controller gateway and ModBus/RTU	7ACELH027	ADV05		RWV06 and RWV08 adaptor and ModBus/RTU gateway	
Maintenance tool	7ACELH014	TD02		Working parameters monitoring and recording tool	



**WATER FLOWLOGIC TECHNICAL DATA**

Outdoor unit		YWC220-H13	YWC280-H13	YWC335-H13	
Part number		7SP14H038	7SP14H039	7SP14H040	
<b>POWERS</b>					
Capacity range	HP	8	10	12	
Cooling capacity	kW	22.4	28	33.5	
Heating capacity	kW	25	31.5	37.5	
<b>ELECTRICAL PARAMETERS</b>					
Phase/Voltage/Frequency		3P/380-400V/50-60Hz	3P/380-400V/50-60Hz	3P/380-400V/50-60Hz	
Cooling	Rated power input	kW	4.50	6.00	7.70
	Max. power input	kW	13.00	15.00	17.00
	Rated current	A	7.20	9.60	12.32
	Max.current	A	20.79	23.99	27.19
Heating	Rated power input	kW	4.15	5.80	7.80
	Max. power input	kW	13.00	15.00	17.00
	Rated current	A	6.64	9.28	12.47
	Max.current	A	20.79	23.99	27.19
EER/COP			4.98/6.02	4.67/5.43	4.35/4.81
<b>PERFORMANCE</b>					
Water flow (HS)	m <sup>3</sup> /h	4.8	6	7.2	
Sound pressure level (HS)	dB(A)	50	51	53	
Sound power level (HS)	dB(A)	61	62	64	
<b>INSTALLATION</b>					
External dimensions (WxDxH)	mm	775x995x545	775x995x545	775x995x545	
Shipping dimensions (WxDxH)	mm	875x1182x655	875x1182x655	875x1182x655	
Net/Shipping weight	kg	172/183	172/183	172/183	
Compressor type		Scroll DCI	Scroll DCI	Scroll DCI	
Refrigerant/GWP		R410A/2088	R410A/2088	R410A/2088	
Refrigerant charge	kg	2	2	2	
Refrigerant liquid pipe	mm	3/8"	3/8"	1/2"	
Refrigerant gas pipe	mm	3/4"	7/8"	1"	
Oil equalization pipe	mm	3/8"	3/8"	3/8"	
Total pipe length	m	300	300	300	
Max. pipe length (equivalent/actual)	m	150/120	150/120	150/120	
Max. height between indoor and outdoor units (ODU up/down)	m	50/40	50/40	50/40	
<b>WATER SIDE</b>					
Inlet water connection pipe	mm	DN32	DN32	DN32	
Outlet water connection pipe	mm	DN32	DN32	DN32	
Pressure drop (inlet and outlet)	Kpa	35	50	70	
Connection type		inner grooved	inner grooved	inner grooved	
Max. system water pressure	Mpa	1.6	1.6	1.6	
Inlet water temperature range (cooling/heating)	°C	7°/45°	7°/45°	7°/45°	
<b>CONNECTION RATIO</b>					
Connectable indoor unit ratio	%	50-130	50-130	50-130	
Maximum number of indoor units	unit	13	16	19	



VRF  
Indoor units

# HBV HIGH WALL



## + PRODUCTS

- RCV02 remote control included
- DC Inverter tangential fan
- Panel digital screen
- Integrated electronic expansion valve
- Dry contact available



RWW05  
(optional)



RWW03  
(optional)



RWW07  
(optional)

## FEATURES

### TECHNOLOGY:



ELECTRONIC  
EXPANSION VALVE

### USER FUNCTIONS:



I FEEL



PROGRAMMABLE  
TIMER



AUTO RESTART  
(MEMORY)

### INSTALLER FUNCTIONS:



ERROR CODE VIA  
INDOOR UNIT



DRY CONTACT  
ON/OFF

### THE « SUSTAINABLE DEVELOPMENT »

→ Energy savings (mode locking, setpoint limits)

### THE « USER »

→ Simple and elegant design

→ Silent operation

→ Multiple applications connectable using the dry contact: room card, presence detection

### THE « INSTALLER »

→ Thickness

### THE « TECHNOLOGY »

→ Optimal regulation thanks to its electronic expansion valve

## HBV TECHNICAL DATA

Indoor unit		AWSI- HBV007-N11	AWSI- HBV009-N11	AWSI- HBV012-N11	AWSI- HBV016-N11	AWSI- HBV018-N11	AWSI- HBV024-N11	AWSI- HBV030-N11
Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
Part number		7SP02H019		7SP02H014	7SP02H020		7SP02H016	7SP02H018
<b>RATED POWER</b>								
Cooling	kBtu/h	7.5	9.5	12.3	15.3	19.1	24.2	30.7
	kW	<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>9</b>
Heating	kBtu/h	8.5	10.9	13.6	17.1	21.5	27.3	34.1
	kW	<b>2.5</b>	<b>3.2</b>	<b>4</b>	<b>5</b>	<b>6.3</b>	<b>8</b>	<b>10</b>
<b>ELECTRICAL PARAMETERS</b>								
Phase/Voltage/Frequency		1P/220-230V/50-60Hz						
<b>PERFORMANCE</b>								
Airflow (LS/MS/HS)	m³/h	420/480/550	470/530/600	500/560/630	650/720/800	720/800/920	800/920/1010	1400/1500/1600
Noise level (LS/MS/HS)	dB(A)	29/31/35	29/31/36	29/33/37	34/36/39	35/39/40	36/40/44	41/44/19
<b>INSTALLATION</b>								
External dimensions (WxHxD)	mm	855x280x200	855x280x200	855x280x200	1115x336x243	1115x336x243	1115x336x243	1115x336x243
Shipping dimensions (WxHxD)	mm	954x355x279	954x355x279	954x355x279	1206x418x342	1206x418x342	1206x418x342	1206x418x342
Net weight/Gross weight	kg	10.9/12.6	10.9/12.6	10.9/12.6	13/16.5	13/16.5	13/16.5	13/16.5
Liquid pipe diameter	inches	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"
Suction pipe diameter	inches	3/8"	3/8"	1/2"	1/2"	1/2"	5/8"	5/8"



### THE + «SUSTAINABLE DEVELOPMENT»

→ Energy savings (mode locking, setpoint limits)

### THE + «USER»

→ Air renewal by supply of fresh air

→ Multiple applications connectable using the dry contact: room card, presence detection

### THE + «INSTALLER»

→ Easy integration into false ceilings thanks to its reduced height

→ Simple installation thanks to its integrated condensate pump

### THE + «TECHNOLOGY»

→ Optimal regulation thanks to its electronic expansion valve

### + PRODUCTS

- RWW05 remote control included
- Integrated condensate pump
- Fresh air inlet
- Integrated electronic expansion valve
- Dry contact available



RCV02 (optional)



RWW03 (optional)



RWW07 (optional)

### CBV TECHNICAL DATA

Indoor unit		AWSI-CBV005-N11	AWSI-CBV007-N11	AWSI-CBV009-N11	AWSI-CBV012-N11	AWSI-CBV016-N11
Phase		Single phase	Single phase	Single phase	Single phase	Single phase
Part number		7SP04H020	7SP04H038		7SP04H039	
<b>RATED POWER</b>						
Cooling	kBtu/h	5.1	7.5	9.5	12.3	15.3
	kW	1.5	2.2	2.8	3.6	4.5
Heating	kBtu/h	5.8	8.5	10.9	13.6	17.1
	kW	1.7	2.5	3.2	4	5
<b>ELECTRICAL PARAMETERS</b>						
Phase/Voltage/Frequency		1P/220-230V/50-60Hz				
<b>PERFORMANCE</b>						
Airflow (LS/MS/HS)	m³/h	430/540/650	480/590/700	480/590/700	480/590/700	480/590/700
Noise level (LS/MS/HS)	dB(A)	28/29/31	29/30/32	29/30/32	29/30/32	29/30/33
<b>INSTALLATION</b>						
External dimensions (WxHxD)	mm	570x260x570	570x260x570	570x260x570	570x260x570	570x260x570
Shipping dimensions (WxHxD)	mm	718x380x680	718x380x680	718x380x680	718x380x680	718x380x680
Net weight/Gross weight	kg	16/19	16/19	16/19	19/22	19/22
Liquid pipe diameter	inches	1/4"	1/4"	1/4"	1/4"	1/4"
Suction pipe diameter	inches	3/8"	3/8"	3/8"	1/2"	1/2"
<b>FRAME</b>						
Frame part number		7ACV FH001	7ACV FH001	7ACV FH001	7ACV FH001	7ACV FH001
External dimensions (WxHxD)	mm	700x60x700	700x60x700	700x60x700	700x60x700	700x60x700
Shipping dimensions (WxHxD)	mm	740x115x750	740x115x750	740x115x750	740x115x750	740x115x750
Net weight/Gross weight	kg	2.8/4.5	2.8/4.5	2.8/4.8	2.8/4.8	2.8/4.8

### FEATURES

#### TECHNOLOGY:



ELECTRONIC EXPANSION VALVE

#### AIR QUALITY / CLEAN:



FRESH AIR

#### USER FUNCTIONS:



I FEEL



PROGRAMMABLE TIMER



AUTO RESTART (MEMORY)

#### INSTALLER FUNCTIONS:



INTEGRATED WATER PUMP



DRY CONTACT ON/OFF



VRF  
Indoor units

# CFV 360° CASSETTE



## + PRODUCTS

- RCV02 remote control included
- 360° air blowing
- Integrated condensate pump
- Extra-slim unit
- Fresh air inlet
- Dry contact available



RCV02  
(optional)



RWW03  
(optional)



RWW07  
(optional)

## FEATURES

### TECHNOLOGY:



ELECTRONIC  
EXPANSION VALVE



MULTIFLOW 360°

### AIR QUALITY / CLEAN:



FRESH AIR

### USER FUNCTIONS:



I FEEL



PROGRAMMABLE  
TIMER



AUTO RESTART  
(MEMORY)

### INSTALLER FUNCTIONS:



INTEGRATED WATER  
PUMP



DRY CONTACT  
ON/OFF

### THE «SUSTAINABLE DEVELOPMENT»

→ Energy savings (mode locking, setpoint limits)

### THE «USER»

→ Optimal comfort with its 360° blown air output

→ Air renewal by supply of fresh air

→ Multiple applications connectable using the dry contact: room card, presence detection

### THE «INSTALLER»

→ Simple installation (180 mm high)

### THE «TECHNOLOGY»

→ Optimal regulation thanks to its electronic expansion valve

## CFV TECHNICAL DATA

Indoor unit		AWSI-CFV016-N11	AWSI-CFV018-N11	AWSI-CFV024-N11	AWSI-CFV030-N11	AWSI-CFV038-N11	AWSI-CFV048-N11	AWSI-CFV060-N11
Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
Part number		7SP04H035		7SP04H029	7SP04H036		7SP04H037	
<b>RATED POWER</b>								
Cooling	kBtu/h	15.3	19.1	24.2	30.7	38.2	47.7	54.6
	kW	4.5	5.6	7.1	9	11.2	14	16
Heating	kBtu/h	17.1	21.5	27.3	34.1	42.6	54.6	61.2
	kW	5	6.3	8	10	12.5	16	18
<b>ELECTRICAL PARAMETERS</b>								
Phase/Voltage/Frequency		1P/220-230V/50-60Hz						
<b>PERFORMANCE</b>								
Airflow (LS/MS/HS)	m <sup>3</sup> /h	620/810/1000	1000/1190/1380	1660/1670/2050	1660/1670/2050	1720/1910/2100	1720/1910/2100	1720/1910/2100
Noise level (LS/MS/HS)	dB(A)	29/30/33	31/34/35	31/35/37	31/35/37	36/40/44	36/40/44	36/40/44
<b>INSTALLATION</b>								
External dimensions (WxHxD)	mm	840x183x840	840x183x840	840x204x840	840x246x840	840x246x840	840x288x840	840x288x840
Shipping dimensions (WxHxD)	mm	983x268x983	983x268x983	983x290x983	983x331x983	983x331x983	983x373x983	983x373x983
Net weight/Gross weight	kg	28/31	28/31	29/32	34/37	34/37	35/38	35/38
Liquid pipe diameter	inches	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"
Suction pipe diameter	inches	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"
<b>FRAME</b>								
Frame part number		7ACVFH003	7ACVFH003	7ACVFH003	7ACVFH003	7ACVFH003	7ACVFH003	7ACVFH003
External dimensions (WxHxD)	mm	950x50x950	950x50x950	950x50x950	950x50x950	950x50x950	950x50x950	950x50x950
Shipping dimensions (WxHxD)	mm	1013x123x1025	1013x123x1025	1013x123x1025	1013x123x1025	1013x123x1025	1013x123x1025	1013x123x1025
Net weight/Gross weight	kg	6.5/9	6.5/9	6.5/9	6.5/9	6.5/9	6.5/9	6.5/9





### THE + «SUSTAINABLE DEVELOPMENT»

→ Energy savings (mode locking, setpoint limits)

### THE + «USER»

→ Air blowing distance up to 11m

→ Horizontal and vertical airflow sweep

→ Multiple applications connectable using the dry contact: room card, presence detection

### THE + «INSTALLER»

→ Horizontal or vertical installation

### THE + «TECHNOLOGY»

→ Optimal regulation thanks to its electronic expansion valve

### + PRODUCTS

- RWW05 remote control included
- High airflow rate
- Extra-slim unit (199 mm)
- Integrated electronic expansion valve
- Dry contact available



RCV02 (optional)



RWW03 (optional)



RWW07 (optional)

### FAV TECHNICAL DATA

Indoor unit		AWSI-FAV009-N11	AWSI-FAV012-N11	AWSI-FAV018-N11	AWSI-FAV024-N11	AWSI-FAV028-N11	AWSI-FAV030-N11	AWSI-FAV038-N11	AWSI-FAV048-N11	
Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	
Part number		7SP02H007	7SP01H004	7SP02H011	7SP01H005	7SP01H006				
<b>RATED POWER</b>										
Cooling	kBtu/h	9.5	12.3	19.1	24.2	27.3	30.7	38.2	48	
	kW	<b>2.8</b>	<b>3.6</b>	<b>5.6</b>	<b>7.1</b>	<b>8</b>	<b>9</b>	<b>11.2</b>	<b>14</b>	
Heating	kBtu/h	10.9	13.6	21.5	27.3	30.7	34.1	42.6	55	
	kW	<b>3.2</b>	<b>4</b>	<b>6.3</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>12.5</b>	<b>16</b>	
<b>ELECTRICAL PARAMETERS</b>										
Phase/Voltage/Frequency		1P/220-230V/50-60Hz								
<b>PERFORMANCE</b>										
Airflow (LS/MS/HS)	m³/h	580/710/800	580/710/800	580/710/800	580/710/800	1610/1820/2040	1610/1820/2040	1610/1820/2040	1610/1820/2040	
Noise level (LS/MS/HS)	dB(A)	33/35/38	33/35/38	35/37/40	35/37/40	38/40/43	38/40/43	38/42/46	38/42/46	
<b>INSTALLATION</b>										
External dimensions (WxHxD)	mm	990x655x199	990x665x199	990x655x199	990x665x199	1580x700x240	1580x700x240	1580x700x240	1580x700x240	
Shipping dimensions (WxHxD)	mm	1160x730x280	1160x730x280	1160x730x280	1160x730x280	1720x800x330	1720x800x330	1720x800x330	1720x800x330	
Net weight/Gross weight	kg	28.3/34.3	28.3/36.4	28.3/36.4	28.3/36.4	50/57	50/57	54/61	54/61	
Liquid pipe diameter	inches	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	
Suction pipe diameter	inches	3/8"	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"	

### FEATURES

#### TECHNOLOGY:



ELECTRONIC EXPANSION VALVE

#### USER FUNCTIONS:



I FEEL



PROGRAMMABLE TIMER



AUTO RESTART (MEMORY)

#### INSTALLER FUNCTIONS:



DRY CONTACT ON/OFF



VRF  
Indoor units

# DDV

## DUCTED LOW STATIC PRESSURE



### + PRODUCTS

- RWW05 remote control included
- Integrated condensate pump
- Extra-slim unit
- Fresh air supply
- Adjustable static pressure 0-30 Pa
- Dry contact available



RCV02  
(optional)



RWW03  
(optional)



RWW07  
(optional)

### FEATURES

#### TECHNOLOGY:



ELECTRONIC  
EXPANSION VALVE



4D AIRFLOW

#### AIR QUALITY / CLEAN:



FRESH AIR

#### USER FUNCTIONS:



I FEEL



SUPER QUIET



PROGRAMMABLE  
TIMER



AUTO RESTART  
(MEMORY)

#### INSTALLER FUNCTIONS:



INTEGRATED WATER  
PUMP



DRY CONTACT  
ON/OFF

#### THE «SUSTAINABLE DEVELOPMENT»

→ Energy savings (mode locking, setpoint limits)

#### THE «USER»

→ Super quiet 21 dB

→ Designer solution thanks to its motorised panel

→ Directable airflow

→ Air renewal by supply of fresh air

→ Multiple applications connectable using the dry contact: room card, presence detection

#### THE «INSTALLER»

→ Simple installation (185 mm high)

#### THE «TECHNOLOGY»

→ Optimal regulation thanks to its electronic expansion valve

→ Front panel with digital display

### DDV TECHNICAL DATA

Indoor unit		AWSI-DDV007-N11	AWSI-DDV009-N11	AWSI-DDV012-N11	AWSI-DDV016-N11
Phase		Single phase	Single phase	Single phase	Single phase
Part number		7SP03H042	7SP03H027	7SP03H027	7SP03H028
<b>RATED POWERS</b>					
Cooling	kBtu/h	7.5	9.5	12.3	15.3
	<b>kW</b>	<b>2.2</b>	<b>2.8</b>	<b>3.6</b>	<b>4.5</b>
Heating	kBtu/h	8.5	10.9	13.6	17.1
	<b>kW</b>	<b>2.5</b>	<b>3.2</b>	<b>4</b>	<b>5</b>
<b>ELECTRICAL PARAMETERS</b>					
Power supply	Ph/V/Hz	1P/220-230V/50-60Hz			
<b>PERFORMANCE</b>					
Airflow (LS/MS/HS)	m <sup>3</sup> /h	360/420/480	360/420/480	370/430/550	460/540/600
Noise level (LS/MS/HS)	dB(A)	21/24/27	21/24/27	25/28/30	27/30/33
<b>INSTALLATION</b>					
External dimensions (WxHxD)	mm	850x185x420	850x185x420	850x185x420	850x185x420
Shipping dimensions (WxHxD)	mm	1045x270x540	1045x270x540	1045x270x540	1045x270x540
Net weight/Gross weight	kg	17.5/22.5	17.5/22.5	17.5/22.5	18.5/23.5
Liquid pipe diameter	inches	1/4"	1/4"	1/4"	1/4"
Suction pipe diameter	inches	3/8"	3/8"	1/2"	1/2"
External static pressure (standard/max)	Pa	0/30	0/30	0/30	0/30
Motorized panel and return air grill		7ACVF0587	7ACVF0587	7ACVF0587	7ACVF0587



### THE + «SUSTAINABLE DEVELOPMENT»

→ Energy savings (mode locking, setpoint limits)

### THE + «USER»

→ Multiple applications connectable using the dry contact: room card, presence detection

→ Air renewal by supply of fresh air

### THE + «INSTALLER»

→ Ease of installation thanks to its small dimensions

→ Integrated condensate pump

### THE + «TECHNOLOGY»

→ Optimal regulation thanks to its electronic expansion valve

→ Adaptability to the ventilation network thanks to its adjustable static pressure

### + PRODUCTS

- RWV05 remote control included
- Integrated condensate pump
- Extra-slim unit 250 mm
- Fresh air supply
- Adjustable static pressure 50-100 Pa
- Dry contact available



RCV02 (optional)



(REC01 infrared receiver to combined with RCV02)



RWV03 (optional)



RWV07 (optional)

### DBV TECHNICAL DATA

Indoor unit		AWSI-DBV 018-N11	AWSI-DBV 024-N11	AWSI-DBV 028-N11	AWSI-DBV 030-N11	AWSI-DBV 038-N11	AWSI-DBV 048-N11
Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
Part number		7SP03H035	7SP03H041	7SP03H038	7SP03H039	7SP03H040	
<b>RATED POWER</b>							
Cooling	kBtu/h	19.1	24.2	27.3	30.7	38.2	47.8
	kW	<b>5.6</b>	<b>7.1</b>	<b>8</b>	<b>9</b>	<b>11.2</b>	<b>14</b>
Heating	kBtu/h	21.5	27.3	30.7	34.1	44.3	55.6
	kW	<b>6.3</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>13</b>	<b>16.3</b>
<b>ELECTRICAL PARAMETERS</b>							
Phase/Voltage/Frequency		1P/230V/50-60Hz					
<b>PERFORMANCE</b>							
Airflow (LS/MS/HS)	m <sup>3</sup> /h	699/805/920	950/1090/1230	950/1090/1230	930/1180/1500	900/1300/1700	1250/1700/2000
Noise level (LS/MS/HS)	dB(A)	36/38/40	38/40/42	39/43/46	38/42/46	39/43/46	39/44/47
<b>INSTALLATION</b>							
External dimensions (WxHxD)	mm	1050x250x720	1050x250x720	1050x250x720	1100x248x700	1500x248x700	1500x248x700
Shipping dimensions (WxHxD)	mm	1170x340x860	1170x340x860	1170x340x860	1332x280x835	1698x305x857	1698x305x857
Net weight/Gross weight	kg	30,5/35,9	33,1/38,5	33,1/38,5	39,4/45,4	48,3/56,5	51,3/59,5
Liquid pipe diameter	inches	1/2"	3/8"	3/8"	3/8"	3/8"	3/8"
Suction pipe diameter	inches	1/4"	5/8"	5/8"	5/8"	5/8"	5/8"
Static pressure	Pa	50	50	50	50	50	50
Max. static pressure	Pa	100	100	100	100	100	100

### FEATURES

#### TECHNOLOGY:



ELECTRONIC EXPANSION VALVE

#### AIR QUALITY / CLEAN:



FRESH AIR

#### USER FUNCTIONS:



I FEEL



SUPER QUIET



PROGRAMMABLE TIMER



AUTO RESTART (MEMORY)

#### INSTALLER FUNCTIONS:



INTEGRATED WATER PUMP



DRY CONTACT ON/OFF



VRF  
Indoor units

# DCV

## DUCTED HIGH STATIC PRESSURE



DCV 048



DCV 072-096

### + PRODUCTS

- RWW05 remote control included
- High static pressure and airflow
- High power 14 to 28 kW
- Dry contact available



RCV02  
(optional)



RWW03  
(optional)



RWW07  
(optional)

### FEATURES

#### TECHNOLOGY:



ELECTRONIC  
EXPANSION VALVE

#### USER FUNCTIONS:



I FEEL



PROGRAMMABLE  
TIMER



AUTO RESTART  
(MEMORY)

#### INSTALLER FUNCTIONS:



DRY CONTACT  
ON/OFF

### THE «SUSTAINABLE DEVELOPMENT»

→ Energy savings (mode locking, setpoint limits)

### THE «USER»

→ Static pressure up to 196 Pa to adapt to any type of ventilation network

### THE «INSTALLER»

→ Possible installation on textile duct

### THE «TECHNOLOGY»

→ Optimal regulation thanks to its electronic expansion valve

→ Adaptability to the ventilation network thanks to its adjustable static pressure



### DCV TECHNICAL DATA

Indoor unit		AWSI-DCV018-N11	AWSI-DCV024-N11	AWSI-DCV030-N11	AWSI-DCV038-N11	AWSI-DCV048-N11	AWSI-DCV072-N11	AWSI-DCV096-N11
Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
Part number		7SP03H014	7SP03H015	7SP03H043		7SP03H044		
<b>RATED POWER</b>								
Cooling	kBtu/h	19.1	24.2	30.7	38.2	47.7	77.1	95.5
	kW	<b>5.6</b>	<b>7.1</b>	<b>9</b>	<b>11.2</b>	<b>14</b>	<b>22.6</b>	<b>28</b>
Heating	kBtu/h	21.5	27.3	34.1	42.6	54.6	85.3	108.5
	kW	<b>6.3</b>	<b>8</b>	<b>10</b>	<b>12.5</b>	<b>16</b>	<b>25</b>	<b>31.5</b>
<b>ELECTRICAL PARAMETERS</b>								
Phase/Voltage/Frequency		1P/220-230V/50-60Hz						
<b>PERFORMANCE</b>								
Airflow (LS/MS/HS)	m³/h	1089/1357/1500	1089/1357/1500	1133/1412/1560	1162/1448/1600	1525/1901/2100	2612/3255/4050	2612/3255/4050
Noise level (LS/MS/HS)	dB(A)	38/40/42	38/40/42	40/43/45	40/43/45	40/43/45	49/51/54	49/51/54
<b>INSTALLATION</b>								
External dimensions (WxHxD)	mm	975x360x906	975x360x906	1355x360x876	1355x360x876	1197x360x830	1570x360x880	1570x360x880
Shipping dimensions (WxHxD)	mm	1048x413x943	1048x413x943	1378x405x938	1378x405x938	1430x420x940	1800x525x1000	1800x525x1000
Net weight/Gross weight	kg	48/58	48/58	62/77	62/77	62/77	100/111	100/111
Liquid pipe diameter	inches	1/4"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Suction pipe diameter	inches	1/2"	5/8"	5/8"	5/8"	5/8"	1"	1"
External static pressure (standard)*	Pa	100	100	100	100	100	100	100

\* For complete external static pressure curves, contact us.



### THE + «SUSTAINABLE DEVELOPMENT»

→ Energy savings (locking mode, setpoint limits)

### THE + «USER»

- New simple and elegant design
- Super-quiet unit
- Upward and downward blowing for greater comfort
- Multiple applications connectable using the dry contact: room card, presence detection

### THE + «INSTALLER»

- Very compact
- Ideal solution for rooms with low ceilings

### THE + «TECHNOLOGY»

- Optimal regulation thanks to its electronic expansion valve

### + PRODUCTS

- RCV02 remote control included
- DC Inverter centrifugal fan
- Compact unit
- Bidirectional airflow
- Dry contact available



RWW05  
(optional)



RWW07  
(optional)

### FEATURES

#### TECHNOLOGY:



ELECTRONIC EXPANSION VALVE

#### USER FUNCTIONS:



I FEEL



SUPER QUIET



PROGRAMMABLE TIMER



AUTO RESTART (MEMORY)

#### INSTALLER FUNCTIONS:



DRY CONTACT ON/OFF

### EAV TECHNICAL DATA

Indoor unit		AW-EAV009-N11	AW-EAV012-N11	AW-EAV018-N11
Phase		Single phase	Single phase	Single phase
Part number		7SP07H000		
<b>RATED POWER</b>				
Cooling	kBtu/h	9.5	12.3	17
	kW	<b>2.8</b>	<b>3.6</b>	<b>5</b>
Heating	kBtu/h	10.9	13.6	18.5
	kW	<b>3.2</b>	<b>4</b>	<b>5.5</b>
<b>ELECTRICAL PARAMETERS</b>				
Phase/Voltage/Frequency		1P/230V/50-60Hz		
<b>PERFORMANCE</b>				
Airflow (VL/LS/MS/HS/VH)	m³/h	270/310/390/460/540	270/310/390/460/540	270/390/460/540/620
Noise level (VL/LS/MS/HS/VH)	dB(A)	32/35/39/42/45	34/38/41/44/47	35/39/42/45/48
<b>INSTALLATION</b>				
External dimensions (WxHxD)	mm	700x600x210	700x600x210	700x600x210
Shipping dimensions (WxHxD)	mm	783x695x303	783x695x303	783x695x303
Net weight/Gross weight	kg	15.2/18.7	15.2/18.7	15.2/18.7
Liquid pipe diameter	inches	1/2"	1/2"	1/2"
Suction pipe diameter	inches	1/4"	1/4"	1/4"

# AHU connection kit

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

## SYSTEM APPLICATION

- Provides a solution for big space to cool down the supplied fresh air with VRF outdoor units to match the air handling units. Integrates all advantages of VRF and AHU units.
- EU legislation requires that every working place has to be supplied with a minimum of 25 m<sup>3</sup>/h/person of fresh air. So it means that every office, every shop and mostly every commercial building must have this solution in order to comply with the standard.



Buildings

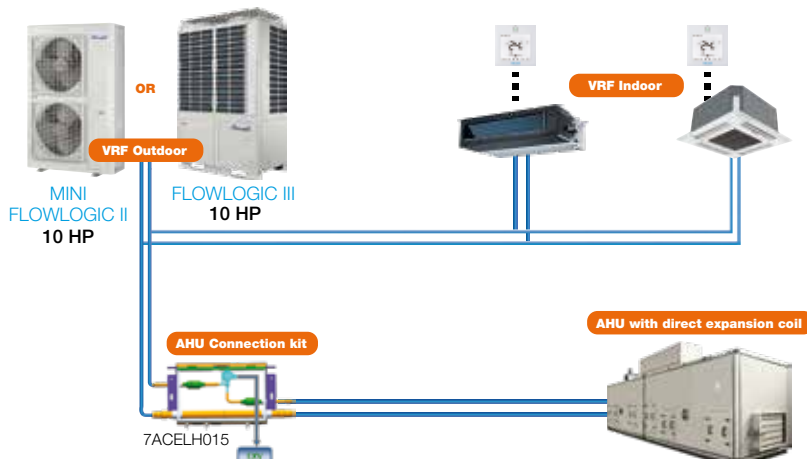


Shopping centres



Hospitals

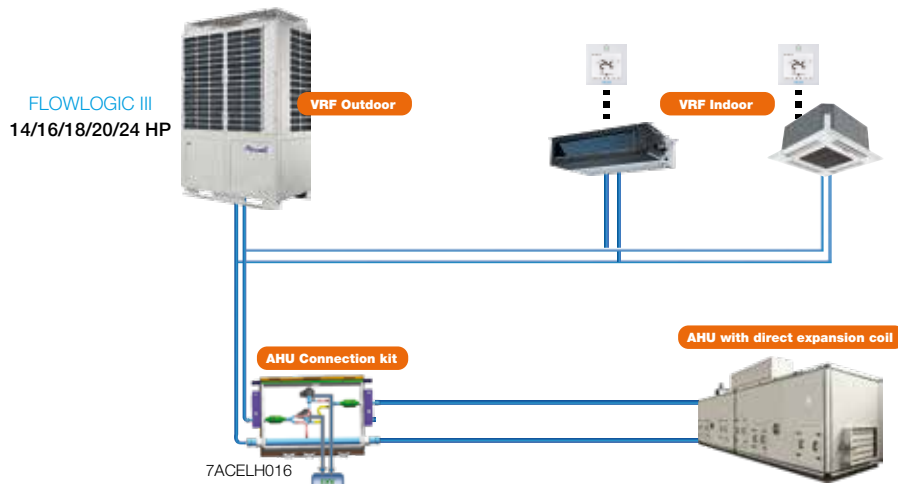
### ■ CONFIGURATION BETWEEN 14 AND 28 KW



5 HP (14kW) < Connected AHU capacity ≤ 10 HP (28kW)

AHU and direct expansion coil to be purchased through other supplier

### ■ CONFIGURATION BETWEEN 28 AND 56 KW





10 HP (28kW) < Connected AHU capacity ≤ 20 HP (56kW)

AHU and direct expansion coil to be purchased through other supplier



## VRF OUTDOOR LINE UP

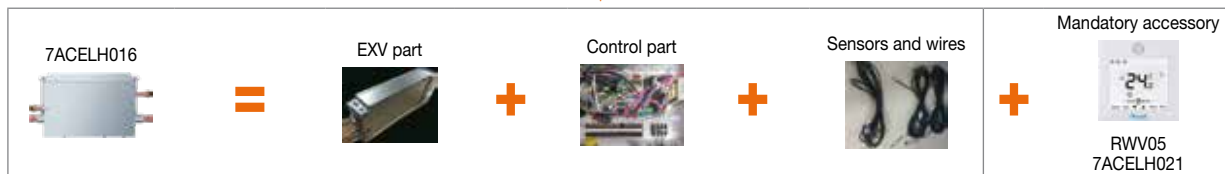
Outdoor unit	MINI FLOWLOGIC II	FLOWLOGIC III
Model	8, 10, 12 HP	All range
		
Power supply	3P/380-400V/50Hz 3P/380-400V/60Hz	3P/380-400V/50Hz - 3P/380-400V/60Hz 3P/220V/60Hz - 3P/460V/60Hz
AHU kit	<b>7ACELH015</b> 5 HP (14kW) < Connected AHU capacity ≤ 10 HP (28kW)	<b>7ACELH016</b> 10 HP (28kW) < Connected AHU capacity ≤ 20 HP (56kW)

## AHU KIT CONFIGURATION

Airwell AHU connection kit consists in the following 4 parts:

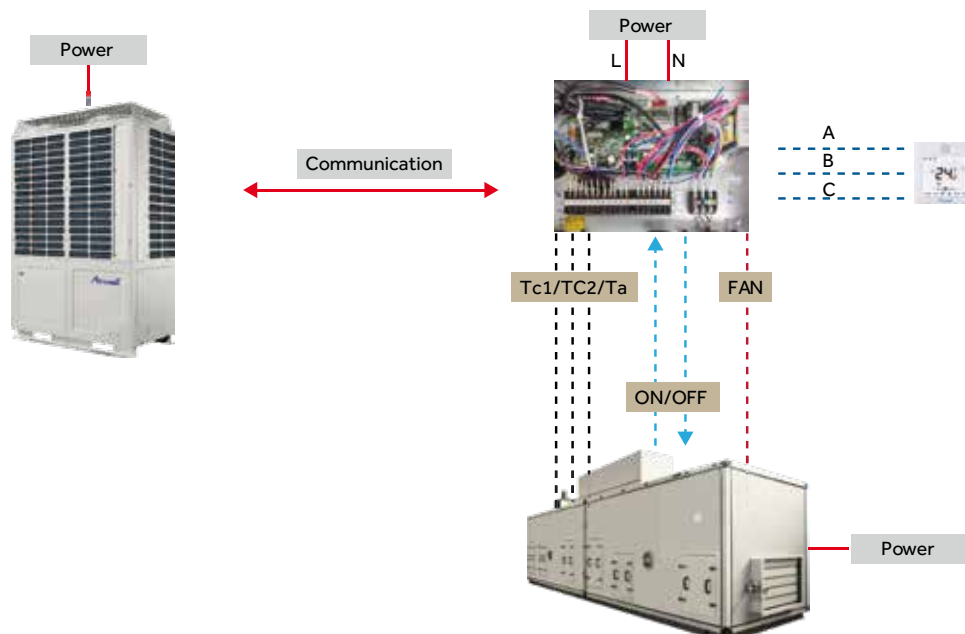


Different Valve ▼ Same Control Parts



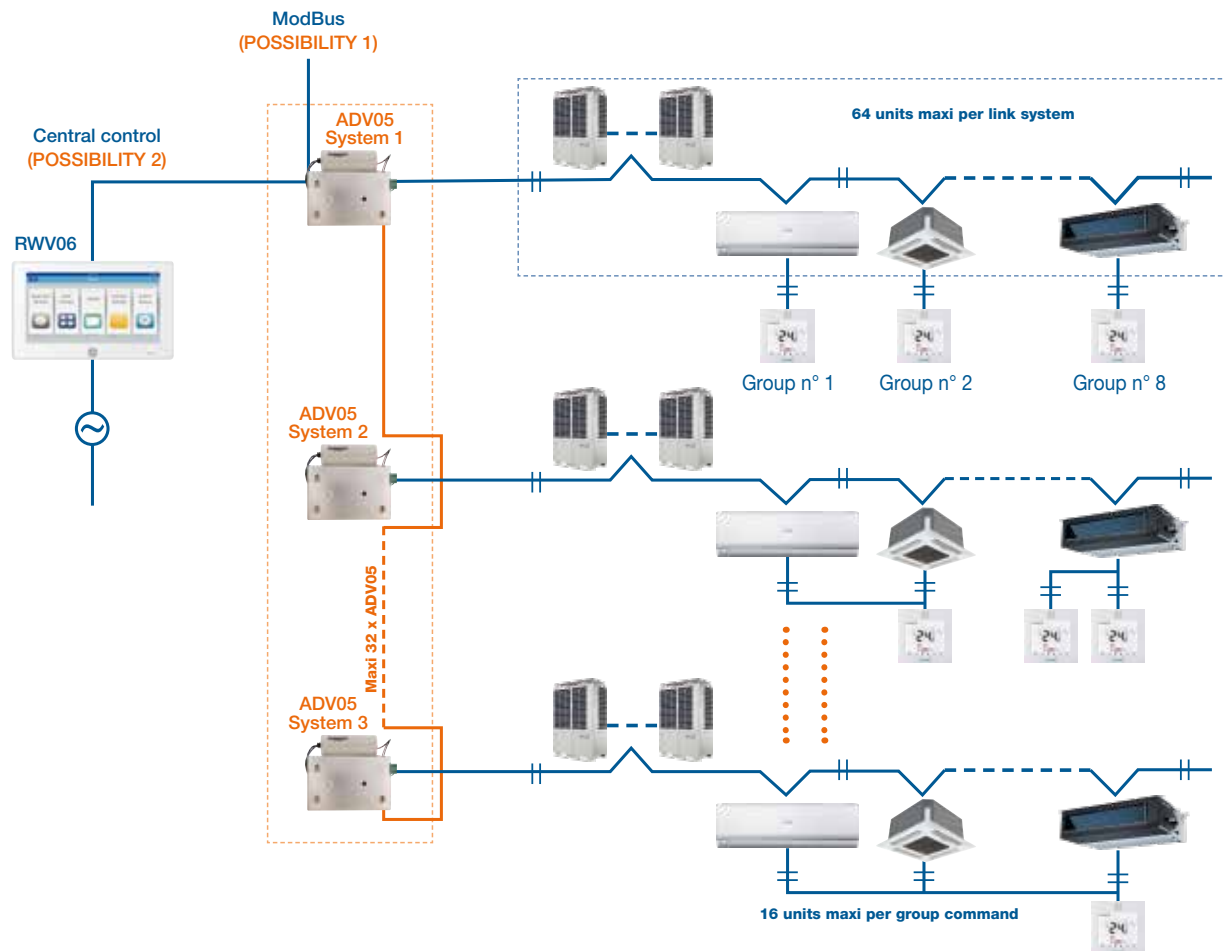
- EXV part, control part, sensor and wire are all integrated in one box.
- Controller need to be purchased separately.
- Temperature control *via* outlet air sensor on AHU.

## WIRING DIAGRAM



# Central control solutions with ADV05

## ONLY ONE GATEWAY: CENTRAL CONTROL OR MODBUS



## TOUCH SCREEN CENTRAL REMOTE CONTROL RWW06

This command allows you to control and monitor the status of indoor units:

- Modern design
- Intuitive and simple operation thanks to its 7" touch screen
- Controls until 64 indoor units by system and 256 indoor units by central control
- Can monitors until 32 systems thanks to 32 ADV05



### The main functions are:

- Reading operating parameters
- Visualization of failure code
- Weekly time: mode, fan speed, temperature
- Sets LIFO (last enter have high priority)
- Creation and monitoring zones
- ModBus RS485 -+

Part number RWW06: 7ACELH023



ACCESSORY NAME		Photo	Part number	Model
CONTROLLERS	INFRARED CONTROLLER		<b>7ACELH022</b>	<b>RCV02</b>
	INFRARED CONTROLLER RECEIVER		<b>7ACELH009</b>	<b>REC01</b>
	SIMPLIFIED CONTROLLER		<b>7ACELH032</b>	<b>RWV03</b>
	WIRED STANDARD CONTROLLER		<b>7ACELH021</b>	<b>RWV05</b>
	WIRED CONTROL WEEKLY TIMER		<b>7ACELH024</b>	<b>RWV07</b>
	MINI CENTRAL CONTROLLER		<b>7ACELH025</b>	<b>RWV08</b>
	CENTRAL CONTROLLER "TOUCH SCREEN"		<b>7ACELH023</b>	<b>RWV06</b>
BMS SOLUTIONS & MAINTENANCE	CENTRAL CONTROLLER GATEWAY AND MODBUS/RTU		<b>7ACELH027</b>	<b>ADV05</b>
	MAINTENANCE TOOL		<b>7ACELH014</b>	<b>TD02</b>

FUNCTION	FOR WHAT UNITS?	OPTION/COMMENT
On/Off, set temperature, auto scan, mode, individual control, timer.	All indoor units.	Standard with high wall and console, optional with cassette and ducted.
Realize infrared control.	Ducted	-
Unit operating and group control (max. 16 indoor units).	All indoor unit types (except for console).	-
Unit operating, group control (max. 16 indoor units) and "I Feel" function.	High wall, ducted, cassette, floor ceiling.	Standard with cassette, ducted and floor ceiling.
Single unit control, group control, max. 16 units, weekly timer, clock, mode cooling/heating/auto/airflow/dehumidification, temperature, fan speed, fan direction.	High wall, cassette, ducted, floor ceiling.	-
32 indoor units max., individual control, group control, central control, weekly timer, error display.	Mini FlowLogic II FlowLogic III	ADV05 mandatory.
Central control, single unit control, group control, max. 256 units, weekly timer, clock, mode cooling/heating/auto/airflow/dehumidification, temperature, fan speed, fan direction.	Mini FlowLogic II FlowLogic III	ADV05 mandatory.
RWV06 and RWV08 adaptor and ModBus/RTU gateway.	Mini FlowLogic II FlowLogic III	-
Working parameters monitoring and recording tool.	Mini FlowLogic II FlowLogic III	-

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