FlowLogic V

Tertiary and Industrial Solutions
DRV Technology

MARQUE FRANÇAISE

Let's transform

our living spaces

Airwell

WELL GREEN SMART

INNOVATION • SERENITY • COMFORT
LISTENING• COMMITMENT

Airwell manifesto

A vision for the future.

This is how Airwell was born in 1947. With the crazy idea of bringing innovative solutions from the United States that did not yet exist in Europe: air conditioning.

Today, innovation is more than ever at the heart of Airwell, as we have become leaders in the creation of thermal and climatic solutions. A deeply human innovation, listening to consumers.

Just like the family spirit that defines Airwell, based on wellbeing and respect for everyone's expectations.

Optimising our energy consumption, favouring solar energy to preserve our natural resources, reinventing consumer uses to limit our environmental footprint, cultivating the comfort of each interior...

At Airwell, we are committed to this for the well-being of everyone and the eenvironment.

"What was our ambition became our mission."

Yes, energy solutions must be intuitive in their management and use.

Yes, they must reduce the ecological and economic impact of housing.

Yes, the world of tomorrow must be built around a single principle: the serenity of each individual.

"And we are convinced of this."

Our most beautiful energy story is you.

Airwell, main partner of Stade Français Paris

The two groups share the same values: innovation, team spirit, dynamism, conviviality, awareness of social and environmental issues... It was all it took for the Airwell logo to accompany the players on their jerseys and within the Jean Bouin stadium..

HUMANITY IS STRENGH

The partnership between this iconic **French rugby team and the French brand** specializing in climate and thermal solutions was naturally built around shared objectives, particularly regarding the societal, environmental, and regional ambitions of both groups.
A solid partnership, firmly anchored in its foundations, and one that makes sense!

VALUES SHARED BY AIRWELL AND STADE FRANÇAIS PARIS

AUTHENTICITY
Vision
Team Spirit
SOCIAL RESPONSABILITY
Comptitiveness
TRAINING

A FILM TO MAKE A DIFFERENCE

A commercial is broadcasted on the stadium's giant screens, humorously showcasing the players' commitment to Airwell's thermal solutions and the energy management offered by Ma Maison Hybride. This immersion transports us into the world of both Stade Français Paris and Airwell, giving us privileged access behind the scenes of this exceptional team, which contributed to the creation of this **«Comfort at home with Stade Français Paris»** advertising campaign to highlight this valuable collaboration!

WATCH THE VIDEO

TABLE OF CONTENTS

CONTROL SYSTEMS

YOUR FRENCH EXPERT
for over 75 years

Airwell, french thermal equipment manufacturer committed to the energy transition

A leading french brand among professionals

As an expert and creator of climate and thermal solutions, Airwell's mission is to create and cultivate well-being. Airwell is committed to:

Reinventing
uses

→ To limit our environmental footprint.

Optimising
consumptions

→ To consume less and better.

Promoting
solar energy

→ To preserve natural resources.

Historical manufacturer

- 1947 — **Creation of Airwell Group**, the french pioneer in heat pumps.
- 1970 — Airwell becomes the leading European heat pump manufacturer. Leader in Europe and Africa.
- 2008 — Industrial disengagement and restructuring of the Airwell Group.
- 2014 — Launch of the Airwell 2.0 strategic project (the transformation from a heat pump manufacturer to a solution provider)..
- 2020 — Launch of Hybrid House, AirConnect Pro and Leezy.
- 2021 — **Airwell becomes Airwell Group** following the aquisition of Airwell Residential by Airwell Distribution.
- 2022 — Integration of the CSR approach into the strategy and award of the "Innovative Company" label by BPI France. Launch of our EnR (Renewable Energy) offer.
- 2023 — Airwell Group acquires Amzair Industrie and creates its Airwell Industrie production site in Brittany to enrich the Group's ecosystem in the design and manufacture of 100% French and connected heat pumps.
- 2024 — Opening of an agency in Guadeloupe.

WANT TO INVEST AND BECOME A CONTRIBUTOR IN THE ENERGY TRANSITION?

A propitious context:

- Airwell, the french reference for heat pumps
- A market driven by new environmental standards
- A CSR approach at the heart of Airwell
- A strategy of conquest driven by the new management
- Airwell, French expert and manufacturer since 1947
- Innovative energy-efficient solutions

I become a shareholder

All the steps are detailed on our website :

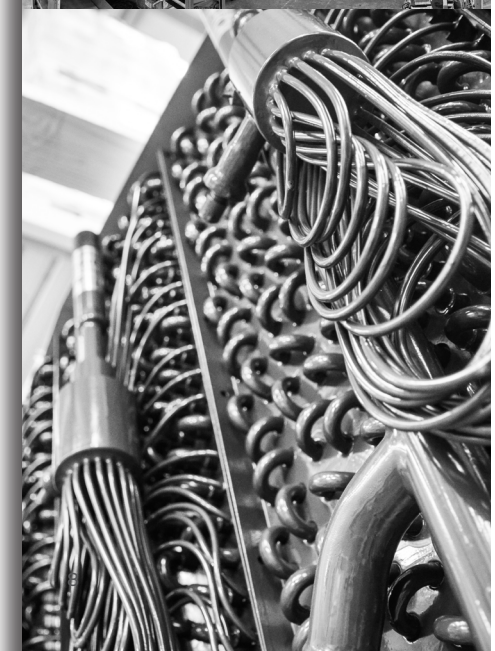
https://groupe-airwell.com/devenir-actionnaire/

120
employees

70+
service partners

200+
business partners

80
Airwell operates in 80 countries



INNOVATION MADE IN FRANCE

by Airwell

Airwell Industrie, a leading French R&D and manufacturing facility for the Airwell Group's premium and innovative solutions.

Based in Plabennec (29) in Brittany, this production site enriches and completes the Airwell Group ecosystem **in the design and manufacture of 100% French and connected heat pumps.**

The ambition for the Airwell Group is to transform this factory into a symbol of innovation in residential energy solutions and thus **develop its global offering of solutions based on data, artificial intelligence and connectivity.**

THE PILLARS OF THE AIRWELL INDUSTRIE PROJECT

MASTERING THE VALUE CHAIN

To design, industrialize, and produce premium and innovative thermodynamic solutions in France. Airwell strives to produce machines of excellent quality and reliability.

ENRICH YOUR OFFER

Develop a range of heat pumps without an outdoor unit and a range of geothermal heat pumps.

CONNECTIVITY AND REPAIRABILITY

A connected product offering enabling preventive and predictive maintenance: an algorithm serving repairability.

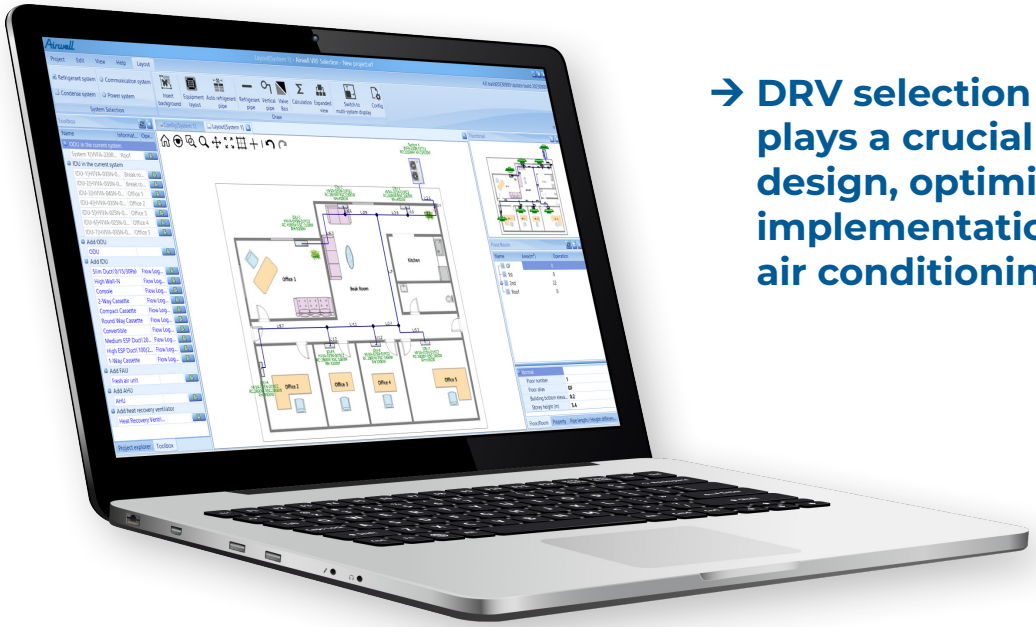
R&D AND TESTING LABORATORY

A research, testing and innovation center based in France.

With the creation of Airwell Industrie, the Airwell Group is continuing its development in a growing market by integrating a new range of innovative products and services dedicated to the comfort of homes and commercial buildings.

Software

DRV SELECTION



→ DRV selection software plays a crucial role in the design, optimization and implementation of DRV air conditioning systems.

DRV SELECTION

Here are the main functions and advantages of the DRV selection software :

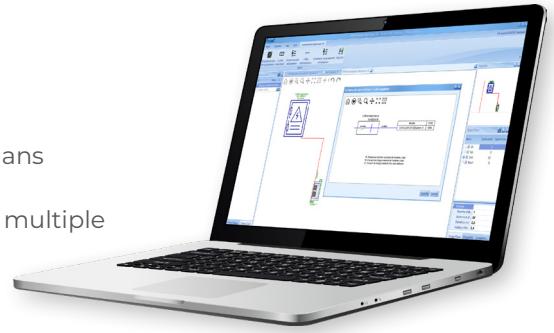
1. Equipment sizing and selection
2. Simulation and analysis
3. Design and planning
4. Documentation and reports
5. Maintenance and updates

- **Software Updates:**
  The software is frequently updated to include the latest products and technologies, as well as to improve algorithms and computing features.
- **Technical Support :**
  Airwell generally provides technical support to help users get the most out of the software and troubleshoot issues.

DRV selection software is an essential tool for air conditioning system engineers and designers, enabling accurate, optimized, and documented design of DRV systems. It helps ensure that installed systems are efficient, energy-efficient, and suited to the specific needs of buildings and their occupants..

New improvements to the selection software:

- Modernized interface and improved graphics
- Increased interaction
- Project design by floor and by room
- Visualization of the system directly on the work plans
- Centralized control of indoor unit groups
- Flexible electrical distribution (possibility of using multiple electrical panels in the same project)
- Detailed and improved selection reports



Airwell ACADEMY

WHY AIRWELL ACADEMY?

- Technical and qualifying training
- Training tools: rental service for training rooms and educational carts.
- Tailor-made training services.

Airwell supports you in implementing an energy management system that is essential for your business and the planet..

CONTACT US

The training center in Paris:

Airwell Academy
10, rue du Fort de Saint Cyr
78180 Montigny-le-Bretonneux

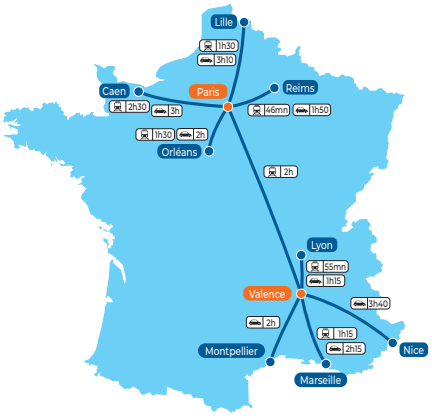
The training center in Valence:

Airwell Academy
66, rue Gilles de Roberval - 26000 Valence

THE CENTERS

The training space provides you with:

- A showroom of Airwell products
- Several equipped training rooms
- An accreditation room
- A dining area and a kitchen
- An outdoor relaxation area
- A private parking



airwell-academy@airwell.com

+33 (0)1 76 21 82 22

or contact your Airwell sales representative

Register for the training program on:

www.airwell-academy.fr

Discover our new website online!

Qualiopi processus certifié

RÉPUBLIQUE FRANÇAISE

La certification qualité a été délivrée au titre de la catégorie d'action suivante : **Action de formation**

Training GUIDE

Airwell offers training services to develop your product and market knowledge..

87,3%
de satisfaction*

RES1

Qualifying training

RESIDENTIAL RANGE

DRV1

Qualifying training

DRV TECHNICAL

PAC1

Qualifying training

HEAT PUMP RANGE

HA01

Qualifying training

ELECTRICAL QUALIFICATION TRAINING FOR ELECTRICAL OPERATIONS

FL01

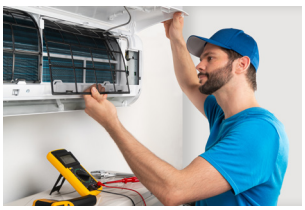
Certified training

CERTIFICATE OF APTITUDE FOR HANDLING CATEGORY 1 REFRIGERANT FLUIDS: INEXPERIENCED TECHNICIAN

TP MDC

Certified training

PROFESSIONAL TITLE: AIR CONDITIONING INSTALLER AND REPAIRER



MET 01

Certified training

TRAINING IN PREPARATION FOR THE PROFESSION OF REFRIGERATION ENGINEER

* Rating from satisfaction surveys carried out among learners who completed training during the period 2021 to 2024.

The product range

TERTIARY AND INDUSTRIAL

DRV AIRWELL'S OFFER

A manufacturing concept built on experience and an international presence.

Product designed to meet European energy efficiency requirements while being resistant to harsh climatic environments.

Airwell DRVs are 100% Inverter

The new DRV Inverter range uses exclusively the best brands of compressors of Japanese origin, focusing on 3 technologies: **Scroll EVI, Scroll and Twin Rotary**, offering a perfect ratio between reliability and energy efficiency.

All the refrigeration components making up the Airwell DRVs have been carefully selected to guarantee flawless reliability and increased service life.

Among the most notable refrigeration components are the Japanese compressors and the oversized "anti-liquid surge" bottle protecting the compressor. An oil separator per compressor allowing direct return of more than 95% of the expelled oil to the discharge and a sub-cooler with an adjustable target during tuning.

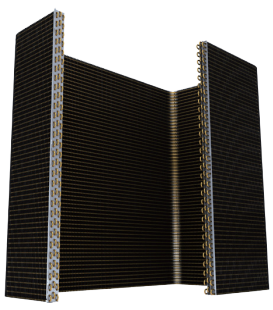
In addition, each Airwell DRV is equipped with a series of sensors to ensure the proper functioning and energy efficiency of the installation at all times.

Silent Mode

Silent mode allows installation in regulated urban areas.

BLACK FIN ANTI-CORROSION TREATMENT

BlackFin anti-corrosion treatment as standard offering resistance to salt spray up to 2000 hours to meet the most demanding constraints.



- Protection in extreme environments.
- Lifespan multiplied by 5 in saline environment.
- Hydrophilic film to prevent water retention.
- Reduced maintenance costs.
- Certification issued by an independent laboratory.

OUTDOOR UNITS

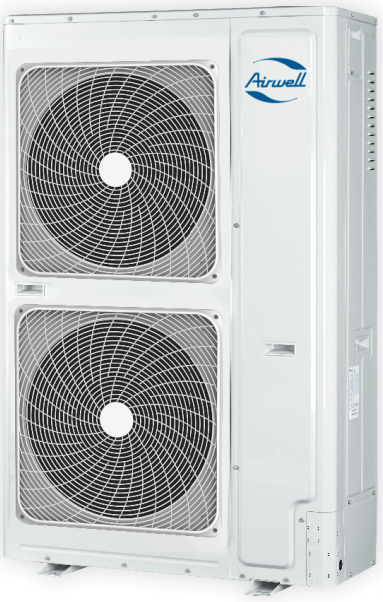
FlowLogic V

MODELS		REFRIGERANT TYPE	CAPACITY (HP)	COOLING CAPACITY (KW)	HEATING CAPACITY (KW)
p.15	**VVFA - 2 PIPES - FRONT DISCHARGE**				
	VVFA-125R	R410A	4	12,10	14,20
	VVFA-150R		6	15,50	18,00
	VVFA-220R		8	22,60	22,60
	VVFA-280R		10	28,00	30,50
	VVFA-335R		12	31,50	31,50
p.18	**VVTA - 2 PIPES - TOP DISCHARGE**				
	VVTA-250R	R410A	8	25,20	25,20
	VVTA-280R		10	28,00	28,00
	VVTA-335R		12	33,50	33,50
	VVTA-400R		14	40,00	40,00
	VVTA-450R		16	45,00	45,00
	VVTA-504R		18	50,40	50,40
	VVTA-560R		20	56,00	56,00
	VVTA-615R		22	61,50	61,50
	VVTA-680R		24	68,00	68,00
	VVTA-735R		26	73,50	73,50
p.28	**VVEA - 3 PIPES - TOP DISCHARGE**				
	VVEA-250R	R410A	8	22,40	22,40
	VVEA-280R		10	28,00	28,00
	VVEA-335R		12	33,50	33,50
	VVEA-400R		14	40,00	40,00
	VVEA-450R		16	45,00	45,00
	VVEA-504R		18	50,40	50,40
	VVEA-560R		20	56,00	56,00
	VVEA-615R		22	61,50	61,50

CERTIFICATION

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

- AIRWELL participates in the ECP DRV program. Check the validity of the certificate on : www.eurovent-certification.com



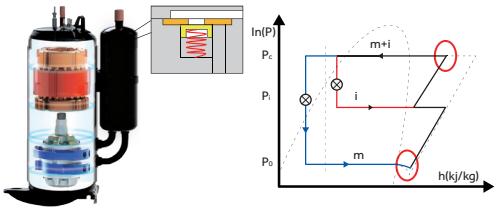
VVFA
Mini FlowLogic Range

Our compact DRV range is perfectly suited to any type of installation, whether commercial, tertiary or residential. The small capacities offered by this range significantly reduce handling operations, guaranteeing greater adaptability in terms of installation (see installation specifications).

- Standard Black Fin anti-corrosion treatment.
- Enhanced Vapor Injection (EVI) compressor.
- Continuous heating.
- Extended operating range.
- Integrated Modbus module.

TWIN ROTARY COMPRESSOR

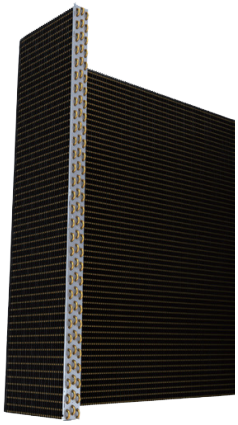
- High efficiency compressor offering top performance with minimum vibration and reduced energy consumption. .



DC INVERTER FAN MOTOR

SUBCOOLER TO OPTIMIZE ENERGY EFFICIENCY

ANTI-CORROSION TREATMENT BLACK FIN



- **Black Fin anti-corrosion treatement.** Resistance up to 2000 hours to salt spray test to meet the most demanding humidity constraints.

COMPATIBLE

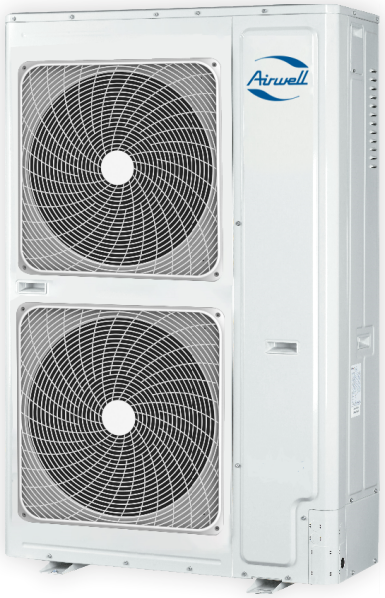
Air Connect Smart

- Charging Valve
- Eurovent Certified
- Nsc up to 304% or SEER 7,67

VVFA

2 pipes - Front discharge

HOT **A+++** FLUID **R410A**



+ PRODUCT

- DC Inverter Rotary Compressor
- DC Inverter fan motor
- Integrated Human Machine Interface (HMI)
- Reduced Dimensions

FlowLogic V

Connectivity

Air Connect Smart

Control Systems

RWV06 (option, see configuration page 59)

RWV09 (option, see configuration page 61)

Technology

DC INVERTER

BLACK FIN TREATMENT

Installer functions

AUTO-DIAGNOSTIC

COMPATIBLE GTC

OPERATION MONITORING DEVICE

CERTIFICATION

- AIRWELL participates in the ECP AC1 program. Check the validity of the certificate on: www.eurovent-certification.com

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

- All models are Eurovent certified, except VVFA080.

THE + «SUSTAINABLE DEVELOPMENT»

- Low consumption and optimized regulation for greater energy savings.

THE + «USER»

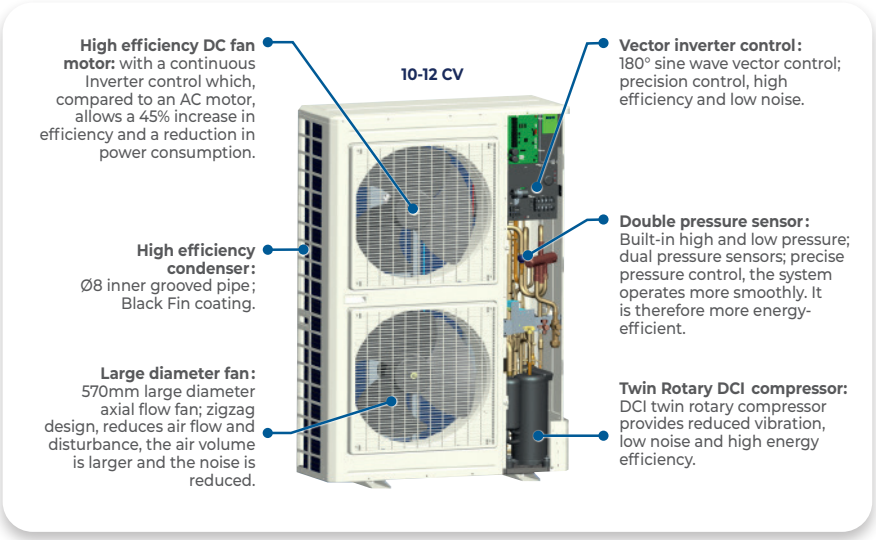
- Mode lock.
- Centralized management.
- Remotely controllable with AirConnect Smart.
- Silent mode to reduce noise levels in sensitive areas or at night.

THE + «INSTALLER»

- Up to 300 m of refrigeration network and 50 m of height difference.
- Access to all parameters via the HMI (Human Machine Interface) for easy maintenance.
- Refrigeration connection from four possible directions.

THE + «TECHNOLOGY»

- Up to 19 indoor units, performance certified by Eurovent* (8, 10, 12 HP).
- Compatible with AirConnect Smart.



Pictogram guide p.90

See technical drawings p.66

TECHNICAL DATA

MODEL			VVFA-125R-01M22	VVFA-150R-01M22	VVFA-150R-01T32	VVFA-220R-01T32	VVFA-280R-01T32	VVFA-335R-01T32
Code			**7VF150034**	**7VF150035**	**7VF150036**	**7VF150037**	**7VF150038**	**7VF150039**
Phase			*Single phase*		*Three phases*			
Power		HP	4	6	6	8	10	12
COOLING MODE								
Rated power*		**kW**	**12,10**	**15,50**	**15,50**	**22,60**	**28,00**	**31,50**
Rated power input		kW	3,61	5,17	5,17	6,95	8,67	11,52
Rated current		A	17,28	24,72	8,26	11,42	14,24	19,03
Max. current		A	34,10	36,90	12,30	19,00	23,80	25,40
EER			3,35	3,00	3,00	3,25	3,23	2,73
SEER			6,82	6,80	6,80	7,67	7,65	7,47
Seasonal operating limits		%	269,80	269,00	269,00	303,80	303,00	295,80
HEATING MODE								
Rated power*		**kW**	**14,20**	**18,00**	**15,50**	**22,60**	**30,50**	**31,50**
Rated power input		kW	3,23	5,00	5,00	5,79	8,03	8,49
Rated current		A	15,44	23,92	8,00	9,52	13,18	14,02
Max. current		A	32,70	35,50	11,90	18,00	22,60	24,20
COP			3,75	3,10	3,10	3,90	3,80	3,71
SCOP*			4,05	4,05	4,05	4,05	4,16	4,21
Seasonal operating limits		%	159,00	159,00	159,00	159,00	163,40	165,40
POWER SUPPLY								
Phase/Voltage/Frequency			1P/220-240V/50-60Hz		3P/380-415V/50-60Hz			
PERFORMANCE								
Airflow (HS)		m³/h	7200			10000		
Sound pressure	Cooling mode	dB(A)	57	59	59	63	64	65
	Heating mode	dB(A)	57	59	59	65	66	67
INSTALLATION								
Outline dimensions (WxHxD)		mm	950x1350x370			1050x1636x400		
Package dimensions (WxHxD)		mm	1023x1420x471			1150x1790x510		
Net weight/Gross weight		kg	108/123			149/168		
Compressor	Type		Scroll DCI			Twin rotary DCI		
	Engine power	W	Mitsubishi Electric					
	Number of compressors		1					
Refrigerant/GWP			**R410A/2088**					
Charge		kg	4,00			5,10		
Liquid pipe diameter		inches	3/8"			3/8"		1/2" **
Suction pipe diameter		inches	5/8"			3/4"	7/8" **	1"1/8 **
Max. length		m	300					
Max. length (equivalent/actual)		m	175/150					
Max height between indoor and outdoor units		m	50					
Max. height between indoor units		m	15					
Indoor/outdoor unit power ratio (min. /max.)		%	50~130					
Maximum number of connectible indoor units		quantity	8	13	13	13	16	19
OPERATING LIMITS								
Cooling mode (min./max.)		°C	-15~48					
Heating mode (min./max.)		°C	-20~27					

* All the specifications are tested under nominal condition as per Eurovent conditions (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°C WB).
** Reduction to be expected because valves are 3/8"-3/4".

ACCESSORIES

ACCESSORY	CODE	REFERENCE	PHOTO	FUNCTION	COMMENT
Manifold pipe (liquid + gas)	**7ACFHH001**	**TAU335**		• *Gather pipe refnet*	• *33,5 kW > Total indoor units power*
	7ACFHH002	**TAU506**		• *Gather pipe refnet*	• *33,5 kW ≤ Total indoor units < 50,6 kW*
ModBus/RTU gateway	**7ACELH027**	**ADV05**		• *RWV06 and RWV09 adaptor and ModBus/RTU gateway*	• *See configuration page 59*
Maintenance tool	**7ACELH014**	**TD03**		• *Visualization and recording of all operating parameters*	
AirConnect Smart	**7ACEL1869**	**-**		• *Remote control by the smart WiFi module and controlled by the AirConnect Smart application.*	• *Module dimension: 86x86x12 mm.*

VVTA

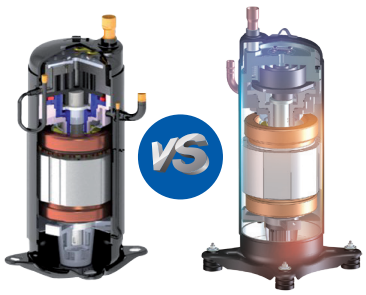
Reversible DRV Range
2-pipes Continuous heating

The FlowLogic 2-pipes range has been revamped with an innovative new structure incorporating wide access to the technical area and a hinged electrical cabinet for easy maintenance!

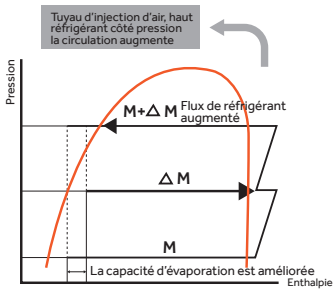
- Unit capacity up to 73.5 kW.
  Can be coupled with up to 4 modules.
- A new **4-way coil**, for better heat exchange.
- Standard Black Fin anti-corrosion treatment.
- Vapor reinjection compressor.
- Continuous heating.
- Extended operating range.
- Integrated Modbus gateway.

INNOVATIVE EVI COMPRESSOR

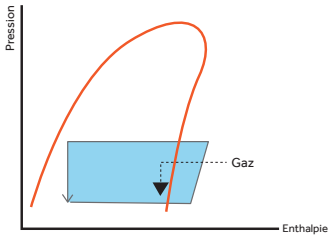
- We have equipped this new range with an EVI (enhanced vapor injection) compressor to offer Airwell customers a unique experience. The unit incorporates a compressor with EVI technology which increases the flow of refrigerant by 15% and thus obtains a **30% improved efficiency in heating** compared to traditional compressors. In addition, thanks to the valve incorporated in the EVI compressor, **the efficiency of the system is increased by 5%** with operation down to -27°C in heating and up to +52°C in cooling.



Compresseur EVI



Compresseur normal

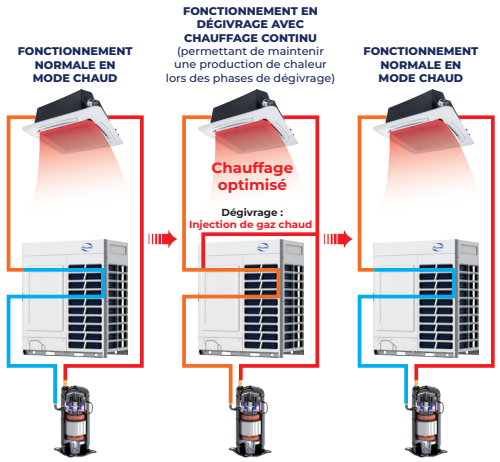


COMPATIBLE

Air Connect Smart

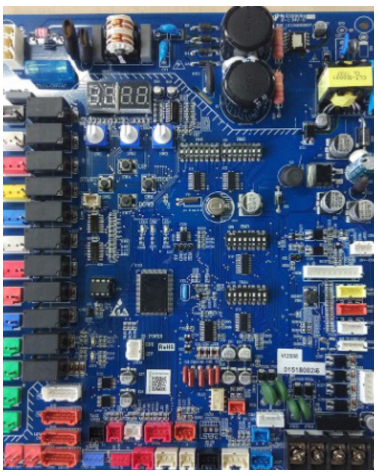
CONTINUOUS HEATING

- The EVI compressor allows the production of heat without interruption during the defrosting phases.
- The VVTA range uses intelligent defrosting technology, allowing heating production to be maintained even during defrosting phases. Indeed, an algorithm taking into account the pressure of the system, the temperature of the battery and influencing the variation of the fan motor allows us to offer this level of comfort by reducing the fluctuations of interior temperature.



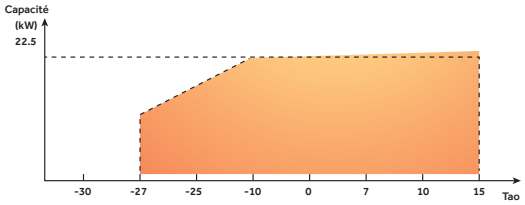
MODBUS OUTPUT INCLUDED

- No gateway is required to use a centralized controller or integrate the system into a GTC. An addressable and configurable Modbus output is directly available on the outdoor unit.



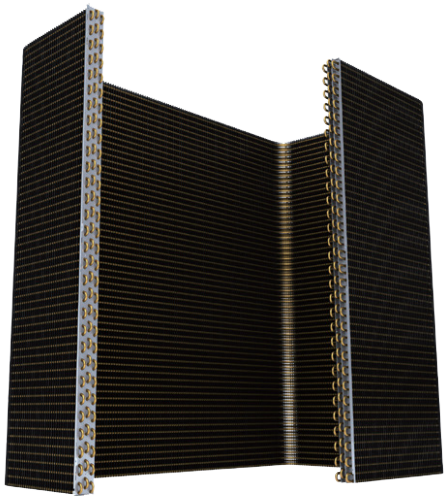
IMPROVED HEATING CAPACITY

- At low temperature, compared to standard machines, the heating capacity increases by 10%. In the 8HP unit for example, the heating capacity is 100% at -10°C outdoor temperature.



ANTI-CORROSION BLACK FIN TREATMENT

- Black Fin anti-corrosion treatment offering resistance of up to 2000 hours to salt spray test to meet the most demanding constraints.



Black Fin Coating - High corrosion resistance.

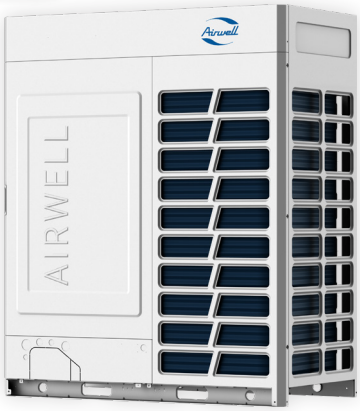
- **High Corrosion Resistance:** The Black Fin coating protects the aluminum from corrosion caused by exposure to environmental elements such as moisture, salt, and pollutants. This is especially beneficial in harsh or coastal environments where corrosion can significantly reduce the unit's lifespan.
- **Hydrophilic Properties:** The hydrophilic nature of the coating means it can attract and disperse water more efficiently. This results in better water drainage, reduced water droplet accumulation, and improved heat exchange efficiency. This property also helps reduce frost formation, which can hamper heat exchanger performance.

VVTA

2 pipes - Top discharge system

FLUID **R410A**

VVTA 250-450



VVTA 504-735

+ PRODUCT

- Capacity from 25 to 294 kW
- Combination of 4 outdoor units possible
- Continuous heating
- EVI Scroll compressor
- Modbus outlet

FlowLogic V

Connectivity

Air Connect Smart

Control systems

RWV06 (optional, see configuration page 60)

RWV09 (optional, see configuration page 61)

Technology

DC INVERTER

BLACK FIN TREATMENT

Installer Funtions

AUTO-DIAGNOSTIC

COMPATIBLE GTC

OPERATION MONITORING DEVICE

CERTIFICATION

- AIRWELL participates in the ECP AC1 program. Check the validity of the certificate on : www.eurovent-certification.com

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

THE + «SUSTAINABLE DEVELOPMENT»

- Low consumption and optimized regulation for greater energy savings.
- Improved efficiency at very low and very high temperature (from -27°C to 52°C) thanks to the EVI.

THE + «USER»

- Heating mode uninterrupted during the defrost phases.
- Intuitive and efficient centralized management.
- Large choice of indoor units
- Remotely controllable with AirConnect Smart.
- Silent mode to reduce noise levels in sensitive areas or at night.

THE + «INSTALLER»

- Improved accessibility, thanks to the service door. .
- Up to 1000 m of refrigeration network and 110 m of height difference.
- Modbus outlet for easy BMS integration.
- Access to all operating parameters, thanks to the HMI (Human Machine Interface).

THE + «TECHNOLOGY»

- Automatic oil balance, no more balance tube.
- Reinforced anti-corrosion treatment.
- Compatible with AirConnect Smart.
- 110 Pa available static pressure on outdoor fan(s).
- Cooling of the electrical cabinet by superconducting heat pipe.

ACCESSORIES

ACCESSORY	CODE	RÉF.	PHOTO	FUNCTION	COMMENT
Gather pipe kit for 2 outdoor units	7ACFHH013	TBS20		• Branch pipe refnet	• For 2 outdoor units
Gather pipe kit for 3 outdoor units	7ACFHH014	TBS30		• Branch pipe refnet	• For 3 outdoor units
Gather pipe kit for 4 outdoor units	7ACFHH014 + 7ACFHH015	TBS30 + TAU2040		• Branch pipe refnet	• For 4 outdoor units
Manifold pipe (gas + liquid)	7ACFHH001	TAU335		• Gather pipe refnet	• 33,5 kW > total IDU power.
	7ACFHH002	TAU506		• Gather pipe refnet	• 33,5 kW ≤ total IDU power < 50,6 kW
	7ACFHH003	TAU730		• Gather pipe refnet	• 50,6 kW ≤ total IDU power < 73 kW
	7ACFHH004	TAU1350		• Gather pipe refnet	• 73 kW ≤ total IDU power < 135 kW
	7ACFHH015	TAU2040		• Gather pipe refnet	• 135 kW ≤ total IDU power
Maintenance tool	7ACELH014	TD03		• Visualization and recording of all operating parameters	
AirConnect Smart	7ACEL1869	-		• Remote control by the smart WiFi module and controlled by the AirConnect Smart application.	• Module dimensions: 86x86x12 mm.

Pictogram guide p.90

See technical drawings p.67

TECHNICAL DATA

		EX-FACTORY							EX-FACTORY		
MODEL		**VVTA-250R-01T32**	**VVTA-280R-01T32**	**VVTA-335R-01T32**	**VVTA-400R-01T32**	**VVTA-450R-01T32**	**VVTA-504R-01T32**	**VVTA-560R-01T32**	**VVTA-615R-01T32**	**VVTA-680R-01T32**	**VVTA-735R-01T32**
Code		**7VF150050**	**7VF150051**	**7VF150052**	**7VF150053**	**7VF150054**	**7VF150055**	**7VF150056**	**7VF150057**	**7VF150058**	**7VF150059**
Phase		*Three phases*									
Power	HP	8	10	12	14	16	18	20	22	24	26
COOLING MODE											
Rated power*	**kW**	**25,20**	**28,00**	**33,50**	**40,00**	**45,00**	**50,40**	**56,00**	**61,50**	**68,00**	**73,50**
Rated power input	kW	6,24	7,37	10,15	11,94	13,24	15,60	16,62	20,16	22,67	36,75
Max. power input	kW	14,30	15,10	16,32	17,58	20,69	25,90	28,91	31,82	32,81	37,80
Rated current	A	10,53	12,44	17,14	20,16	22,34	26,34	28,05	34,03	37,65	59,24
Max. current	A	23,81	25,14	27,17	29,27	34,50	40,30	46,30	51,91	54,12	61,91
EER		4,04	3,80	3,30	3,35	3,40	3,23	3,37	3,05	3,00	2,00
SEER		7,25	7,09	6,69	6,60	6,36	6,78	6,75	6,54	5,83	4,90
Seasonal operating limits		287,00	280,60	264,60	261,00	251,40	268,20	267,00	258,60	230,20	193,00
HEATING MODE											
Rated power*	**kW**	**25,20**	**28,00**	**33,50**	**40,00**	**45,00**	**50,40**	**56,00**	**61,50**	**68,00**	**73,50**
Rated power input	kW	5,73	6,51	8,59	10,00	11,25	13,19	14,66	18,64	19,43	26,25
Max. power input	kW	11,69	12,19	12,69	16,10	19,56	21,93	24,70	25,69	30,40	32,45
Rated current	A	9,67	10,99	14,50	16,88	18,99	22,27	24,75	31,46	32,80	44,32
Max. current	A	19,47	20,30	21,13	26,81	32,57	36,51	41,13	42,78	50,62	54,03
COP		4,40	4,30	3,90	4,00	4,00	3,82	3,82	3,30	3,50	2,80
SCOP		4,41	4,31	4,31	4,12	4,05	4,15	4,20	4,21	4,17	3,5
Seasonal operating limits		173,40	169,40	169,40	161,80	159,00	163,00	165,00	165,40	163,80	137,00
POWER SUPPLY											
Phase/Voltage/Frequency		3P/380-415V/50-60Hz									
PERFORMANCE											
Air flow (HS)		m³/h	11000	11000	12000	13500	13500	17000	17000	18000	18000	19000
Sound pressure	Cooling mode	dB(A)	61	61	61	64	64	64	64	-	-	-
	Heating mode	dB(A)	56	56	59	59	60	61	61	61	62	62
Sound power level (HS)		dB(A)	81	82	88	88	88	88	88	88	90	90
INSTALLATION											
Outline dimensions (WxHxD)		mm	980x1690x750					1410x1690x750			
Package dimensions (WxHxD)		mm	1070x1858x850					1515x1858x850			
Net weight/Gross weight		kg	255/280					385/410			
Compressor	Type		Scroll DCI					Scroll DCI			
	Brand		Mitsubishi Electric					Mitsubishi Electric			
	Number of compressors		1					2			
Refrigerant/GWP		**R410A/2088**									
Charge		kg	10								
Liquid pipe diameter		inches	3/8" **		1/2"			5/8"			
Suction pipe diameter		inches	3/4" ***	7/8" ***	1" ***		1"1/8	1"1/8			
Max. length		m	1000								
Max. length (equivalent/actual)		m	260/220								
Max. height between indorr and outdoor units (ODU down/up) (1)		m	110/90								
Standard height between indorrr and outdoor units (ODU down/up) (2)		m	50/40								
Max height between indoor units (3)		m	30								
Standars height between indoor units (4)		m	18								
External static pressure		Pa	110								
Indoor/Outdoor unit power ratio (min./max.)		%	50~130								
Maximum number of connectible indoor units		quantity	13	16	20	24	27	30	33	36	40	43
OPRETAING LIMITS											
Cooling mode (min. /max.)		°C	-5/+52								
Heating mode (min. /max.)		°C	-27/+21								

(1) If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
(2) Standard design and production in the factory.
(3) If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
(4) Standard design and production in the factory.

* All the specifications are tested under nominal condition as per Eurovent conditions (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°C WB).
** Provide a reduction because the valve is 1/2". *** Provide a reduction because the valve is 1"1/8.

TECHNICAL DATA FOR TWO COMBINATIONS

MODEL			VVTA-800R	VVTA-850R	VVTA-900R	VVTA-954R	VVTA-1008R	VVTA-1064R	VVTA-1120R
COMBINATIONS			VVTA-400R 7VF150053	VVTA-400R 7VF150053	VVTA-450R 7VF150054	VVTA-450R 7VF150054	VVTA-504R 7VF150055	VVTA-504R 7VF150055	VVTA-560R 7VF150056
			VVTA-400R 7VF150053	VVTA-450R 7VF150054	VVTA-450R 7VF150054	VVTA-504R 7VF150055	VVTA-504R 7VF150055	VVTA-560R 7VF150056	VVTA-560R 7VF150056
Phase			*Three phases*						
Power		HP	28	30	32	34	36	38	40
COOLING MODE									
Rated power*		**kW**	**80,00**	**85,00**	**90,00**	**95,40**	**100,80**	**106,40**	**112,00**
Rated power input		kW	23,88	25,18	26,47	28,84	31,20	32,22	33,23
Max. power input		kW	35,16	38,27	41,38	46,59	51,80	54,81	57,82
Rated current		A	40,32	42,50	44,69	48,68	52,67	54,39	56,11
Max. current		A	58,54	63,77	69,00	74,80	80,60	86,60	92,60
EER			3,35	3,38	3,40	3,31	3,23	3,30	3,37
SEER			6,60	6,36	6,36	6,36	6,78	6,75	6,75
Seasonal operating limits			261	251	251	251	268	267	267
HEATING MODE									
Rated power*		**kW**	**80,00**	**85,00**	**90,00**	**95,40**	**100,80**	**106,40**	**112,00**
Rated power input		kW	20,00	21,25	22,50	24,44	26,39	27,85	29,32
Max. power input		kW	32,20	35,66	39,12	41,49	43,86	46,63	49,40
Rated current		A	33,76	35,87	37,98	41,27	44,55	47,02	49,50
Max. current		A	53,61	59,38	65,14	69,08	73,03	77,64	82,25
COP			4,00	4,00	4,00	3,90	3,82	3,82	3,82
SCOP			4,12	4,05	4,05	4,05	4,15	4,15	4,20
Seasonal operating limits			162	159	159	159	163	163	165
POWER SUPPLY									
Phase/Voltage/Frequency			3P/380-415V/50-60Hz						
PERFORMANCE									
Airflow (HS)		m^3/h	27000	27000	27000	30500	34000	34000	34000
Sound pressure	Cooling mode	dB(A)	62	62,5	63	63,5	64	64	64
	Heating mode	dB(A)	62	62,5	63	63,5	64	64	64
Sound power level (HS)		dB(A)	91	91	91	91	91	91	91
INSTALLATION									
Outline dimensions (WxHxD)		mm	980x1690x750 +980x1690x750			980x1690x750 + 1410x1690x750	1410x1690x750 + 1410x1690x750		
Package dimensions (WxHxD)		mm	1070x1858x850 + 1070x1858x850			1070x1858x850 + 1515x1858x850	1485x1858x850 + 1485x1858x850		
Net weight/Gross weight		kg	255/280 + 255/280			255/280 + 385/410	385/410 + 385/410		
Compressor	Type		Scroll DCI						
	Brand		Mitsubishi Electric						
	Number of compressors		2			3	4		
Refrigerant/PRP			**R410A/2088**						
Charge		kg	20						
Liquid pipe diameter		inches	5/8"	3/4"					
Suction pipe diameter		inches	1"1/8	1"1/4			1"1/2		
Max. length		m	1000						
Max. length (equivalent/actual)		m	260/220						
Max. height between indoor and oudoor units (ODU down/up) (1)		m	110/90						
Standard height between indoor and oudoor units (ODU down/up) (2)		m	50/40						
Max. height between indoor units (3)		m	30						
Standard height between indoor units (4)		m	18						
External static pressure		Pa	110						
Indoor/outdoor unit power ratio (min./max.)		%	50~130						
Maximum number of connectable indoor units		quantity	47	50	53	56	59	63	64
OPERATING LIMITS									
Cooling mode (min./max.)		°C	-5~52						
Heating mode (min./max.)		°C	-27~21						

(1) If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
(2) Standard design and production in the factory.
(3) If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
(4) Standard design and production in the factory.
* All the specifications are tested under nominal condition as per Eurovent conditions (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°C WB).

TECHNICAL DATA FOR TWO COMBINATIONS

MODEL			VVTA-1175R	VVTA-1230R	VVTA-1295R	VVTA-1360R	VVTA-1415R	VVTA-1470R
COMBINATIONS			VVTA-560R 7VF150056 VVTA-615R 7VF150057	VVTA-615R 7VF150057 VVTA-615R 7VF150057	VVTA-615R 7VF150057 VVTA-680R 7VF150058	VVTA-680R 7VF150058 VVTA-680R 7VF150058	VVTA-680R 7VF150058 VVTA-735R 7VF150059	VVTA-735R 7VF150059 VVTA-735R 7VF150059
Phase			*Three phases*					
Power		HP	42	44	46	48	50	52
COOLING MODE								
Rated power*		**kW**	**117,50**	**123,00**	**129,50**	**136,00**	**141,50**	**147,00**
Rated power input		kW	36,78	40,32	42,83	45,34	59,42	73,50
Max. power input		kW	60,73	63,64	64,63	65,62	70,61	75,60
Rated current		A	62,09	68,07	71,68	75,30	96,89	118,48
Max. current		A	98,21	103,82	106,03	108,24	116,03	123,82
EER			3,19	3,05	3,02	3,00	2,38	2,00
SEER			6,54	6,54	5,83	5,83	4,90	4,90
Seasonal operating limits			259	259	230	230	193	193
HEATING MODE								
Rated power*		**kW**	**117,50**	**123,00**	**129,50**	**136,00**	**141,50**	**147,00**
Rated power input		kW	33,30	37,27	38,06	38,86	45,68	52,50
Max. power input		kW	50,39	51,38	56,09	60,80	62,85	64,90
Rated current		A	56,21	62,92	64,26	65,60	77,11	88,63
Max. current		A	83,90	85,55	93,39	101,23	104,65	108,06
COP			3,53	3,30	3,40	3,50	3,10	2,80
SCOP			4,20	4,21	4,17	4,17	3,50	3,50
Seasonal operating limits			165	165	164	164	137	137
POWER SUPPLY								
Phase/Voltage/Frequency			3P/380-415V/50-60Hz					
PERFORMANCE								
Airflow (HS)		m^3/h	35000	36000	36000	36000	37000	38000
Sound pressure	Cooling mode	dB(A)	64	64	64,5	65	65	65
	Heating mode	dB(A)	64	64	64,5	65	65	65
Sound power level (HS)		dB(A)	92	93	93	93	93	93
INSTALLATION								
Outline dimensions (WxHxD)		mm	1410x1690x750 + 1410x1690x750					
Package dimensions (WxHxD)		mm	1485x1858x850 + 1485x1858x850					
Net weight/Gross weight		kg	385/410 + 385/410					
Compresseur	Type		Scroll DCI					
	Brand		Mitsubishi Electric					
	Number of compressors		4					
Refrigerant/PRP			**R410A/2088**					
Charge		kg	20					
Liquid pipe diameter		inches	3/4"					
Suction pipe diameter		inches	1"1/2					
Max. length		m	1000					
Max. length (equivalent/actual)		m	260/220					
Max. height between indoor and oudoor units (ODU down/up) (1)		m	110/90					
DStandard height between indoor and oudoor units (ODU down/up) (2)		m	50/40					
Max. height between indoor units (3)		m	30					
Standard height between indoor units (4)		m	18					
External static pressure		Pa	110					
Indoor/outdoor unit power ratio (min./max.)		%	50~130					
Maximum number of connectable indoor units		quantity	64					
OPERATING LIMITS								
Cooling mode (min./max.)		°C	-5~52					
Heating mode (min./max.)		°C	-27~21					

(1) If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
(2) Standard design and production in the factory.
(3) If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
(4) Standard design and production in the factory.
* All the specifications are tested under nominal condition as per Eurovent conditions (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°C WB).

TECHNICAL DATA FOR THREE COMBINATIONS

MODEL			VVTA-1512R	VVTA-1568R	VVTA-1624R	VVTA-1680R	VVTA-1735R	VVTA-1790R	VVTA-1845R
COMBINATIONS			VVTA-504R 7VF150055 VVTA-504R 7VF150055 VVTA-504R VVTA-504R 7VF150055	VVTA-504R 7VF150055 VVTA-504R 7VF150055 VVTA-560R VVTA-560R 7VF150056	VVTA-504R 7VF150055 VVTA-560R 7VF150056 VVTA-560R VVTA-560R 7VF150056	VVTA-560R 7VF150056 VVTA-560R 7VF150056 VVTA-560R VVTA-560R 7VF150056	VVTA-615R 7VF150057 VVTA-560R 7VF150056 VVTA-560R VVTA-560R 7VF150056	VVTA-615R 7VF150057 VVTA-615R 7VF150057 VVTA-560R VVTA-560R 7VF150056	VVTA-615R 7VF150057 VVTA-615R 7VF150057 VVTA-615R VVTA-615R 7VF150057
Phase			*Three phases*						
Power		HP	54	56	58	60	62	64	66
COOLING MODE									
Rated power*		**kW**	**151,20**	**156,80**	**162,40**	**168,00**	**173,50**	**179,00**	**184,50**
Rated power input		kW	46,80	47,82	48,83	49,85	53,39	56,94	60,48
Max. power input		kW	77,70	80,71	83,72	86,73	89,64	92,55	95,46
Rated current		A	79,01	80,73	82,44	84,16	90,14	96,12	102,10
Max. current		A	120,90	126,90	132,90	138,90	144,51	150,12	155,73
EER			3,23	3,28	3,33	3,37	3,25	3,14	3,05
SEER			6,78	6,75	6,75	6,75	6,54	6,54	6,54
Seasonal operating limits			268	267	267	267	259	259	259
HEATING MODE									
Rated power*		**kW**	**151,20**	**156,80**	**162,40**	**168,00**	**173,50**	**179,00**	**184,50**
Rated power input		kW	39,58	41,05	42,51	43,98	47,96	51,93	55,91
Max. power input		kW	65,79	68,56	71,33	74,10	75,09	76,08	77,08
Rated current		A	66,82	69,30	71,77	74,25	80,96	87,67	94,39
Max. current		A	109,54	114,15	118,76	123,38	125,03	126,68	128,33
COP			3,82	3,82	3,82	3,82	3,62	3,45	3,30
SCOP			4,15	4,15	4,15	4,20	4,20	4,20	4,21
Seasonal operating limits			163	163	163	165	165	165	165
POWER SUPPLY									
Phase/Voltage/Frequency			3P/380-415V/50-60Hz						
PERFORMANCE									
Airflow (HS)		m^3/h	51000	51000	51000	51000	52000	53000	54000
Sound pressure	Cooling mode	dB(A)	65,8	65,8	65,8	65,8	65,8	65,8	65,8
	Heating mode	dB(A)	65,8	65,8	65,8	65,8	65,8	65,8	65,8
Sound power level (HS)		dB(A)	93	93	93	93	93,5	94	95
INSTALLATION									
Outline dimensions (WxHxD)		mm	1410x1690x750 + 1410x1690x750+1410x1690x750						
Package dimensions (WxHxD)		mm	1485x1858x850 + 1485x1858x850+1485x1858x850						
Net weight/Gross weight		kg	385/410 + 385/410 + 385/410						
Compressor	Type		Scroll DCI						
	Brand		Mitsubishi Electric						
	Number of compressors		6						
Refrigerant/PRP			**R410A/2088**						
Charge		kg	30						
Liquid pipe diameter		inches	3/4"						
Suction pipe diameter		inches	1"1/2		1"5/8				
Max. length		m	1000						
Max. length (equivalent/actual)		m	260/220						
Max. height between indoor and oudoor units (ODU down/up) (1)		m	110/90						
Standard height between indoor and oudoor units (ODU down/up) (2)		m	50/40						
Max. height between indoor units (3)		m	30						
Standard height between indoor units (4)		m	18						
External static pressure		Pa	110						
Indoor/outdoor unit power ratio (min./max.)		%	50~130						
Maximum number of connectable indoor units		quantity	64						
OPERATING LIMITS									
Cooling mode (min./max.)		°C	-5~52						
Heating mode (min./max.)		°C	-27~21						

NET WEIGHT/GROSS WEIGHT

(1) If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
(2) Standard design and production in the factory.
(3) If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
(4) Standard design and production in the factory.
* All the specifications are tested under nominal condition as per Eurovent conditions (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°C WB).

TECHNICAL DATA FOR THREE COMBINATIONS

MODEL			VVTA-1910R	VVTA-19750R	VVTA-2040	VVTA-2095R	VVTA-2150R	VVTA-2205R
COMBINATIONS			VVTA-615R 7VF150057 VVTA-615R 7VF150057 VVTA-680R 7VF150058	VVTA-615R 7VF150057 VVTA-680R 7VF150058 VVTA-680R 7VF150058	VVTA-680R 7VF150058 VVTA-680R 7VF150058 VVTA-680R 7VF150058	VVTA-735R 7VF150059 VVTA-680R 7VF150058 VVTA-680R 7VF150058	VVTA-735R 7VF150059 VVTA-735R 7VF150059 VVTA-680R 7VF150058	VVTA-735R 7VF150059 VVTA-735R 7VF150059 VVTA-735R 7VF150059
Phase			*Three phases*					
Power		HP	68	70	72	74	76	78
COOLING MODE								
Rated power*		**kW**	**191,00**	**197,50**	**204,00**	**209,50**	**215,00**	**220,50**
Rated power input		kW	62,99	65,50	68,01	82,09	96,17	110,25
Max. power input		kW	96,45	97,44	98,43	103,42	108,41	113,40
Rated current		A	105,72	109,33	112,95	134,54	156,13	177,72
Max. current		A	157,94	160,15	162,36	170,15	177,94	185,73
EER			3,03	3,02	3,00	2,55	2,24	2,00
SEER			5,83	5,83	5,83	4,90	4,90	4,90
Seasonal operating limits			230	230	230	193	193	193
HEATING MODE								
Rated power*		**kW**	**191,00**	**197,50**	**204,00**	**209,50**	**215,00**	**220,50**
Rated power input		kW	56,70	57,49	58,29	65,11	71,93	78,75
Max. power input		kW	81,78	86,49	91,20	93,25	95,30	97,35
Rated current		A	95,72	97,06	98,40	109,91	121,43	132,95
MAx. current		A	136,17	144,01	151,85	155,26	158,67	162,09
COP			3,37	3,44	3,50	3,22	2,99	2,80
SCOP			4,17	4,17	4,17	3,50	3,50	3,50
Seasonal operating limits			164	164	164	137	137	137
POWER SUPPLY								
Phase/Voltage/Frequency			3P/380-415V/50-60Hz					
PERFORMANCE								
Airflow (HS)		m^3/h	54000	54000	54000	55000	56000	57000
Sound pressure	Cooling mode	dB(A)	66	66,5	66,8	66,8	66,8	66,8
	Heating mode	dB(A)	66	66,5	66,8	66,8	66,8	66,8
Sound power level (HS)		dB(A)	95	95	95	95	95	95
INSTALLATION								
Outline dimensions (WxHxD)		mm	1410x1690x750 + 1410x1690x750+1410x1690x750					
Package dimensions (WxHxD)		mm	1485x1858x850 + 1485x1858x850+1485x1858x850					
Net weight/Gross weight		kg	385/410 + 385/410 + 385/410					
Compressor	Type		Scroll DCI					
	Brand		Mitsubishi Electric					
	Number of compressors		6					
Refrigerant/PRP			**R410A/2088**					
Charge		kg	30					
Liquid pipe diameter		inches	7/8"					
Suction pipe diameter		inches	1"3/4					
Max. length		m	1000					
Max. length (equivalent/actual)		m	260/220					
Max. height between indoor and oudoor units (ODU down/up) (1)		m	110/90					
Standard height between indoor and oudoor units (ODU down/up) (2)		m	50/40					
Max. height between indoor units (3)		m	30					
Standard height between indoor units (4)		m	18					
External static pressure		Pa	110					
Indoor/outdoor unit power ratio(min./max.)		%	50~130					
Maximum number of connectable indoor units		quantity	64					
OPERATING LIMITS								
Cooling mode (min./max.)		°C	-5~52					
Heating mode (min./max.)		°C	-27~21					

(1) If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
(2) Standard design and production in the factory.
(3) If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
(4) Standard design and production in the factory.
* All the specifications are tested under nominal condition as per Eurovent conditions (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°C WB).

TECHNICAL DATA FOR FOUR COMBINATIONS

MODEL			VVTA-2240R	VVTA-2295R	VVTA-2350R	VVTA-2405R	VVTA-2460R	VVTA-2525R	VVTA-2590R
COMBINATIONS			VVTA-560R 7VF150056	VVTA-560R 7VF150056	VVTA-560R 7VF150056	VVTA-560R 7VF150056	VVTA-615R 7VF150057	VVTA-680R 7VF150058	VVTA-680R 7VF150058
			VVTA-560R 7VF150056	VVTA-560R 7VF150056	VVTA-560R 7VF150056	VVTA-615R 7VF150057	VVTA-615R 7VF150057	VVTA-615R 7VF150057	VVTA-680R 7VF150058
			VVTA-560R 7VF150056	VVTA-560R 7VF150056	VVTA-615R 7VF150057	VVTA-615R 7VF150057	VVTA-615R 7VF150057	VVTA-615R 7VF150057	VVTA-615R 7VF150057
			VVTA-560R 7VF150056	VVTA-615R 7VF150057	VVTA-615R 7VF150057	VVTA-615R 7VF150057	VVTA-615R 7VF150057	VVTA-615R 7VF150057	VVTA-615R 7VF150057
Phase			Three phases						
Power		HP	80	82	84	86	88	90	92
COOLING MODE									
Rated power*		**kW**	**224,00**	**229,50**	**235,00**	**240,50**	**246,00**	**252,50**	**259,00**
Rated power input		kW	66,47	70,01	73,55	77,10	80,64	83,15	85,66
Max. power input		kW	115,64	118,55	121,46	124,37	127,28	128,27	129,26
Rated current		A	112,21	118,19	124,18	130,16	136,14	139,75	143,37
Max. current		A	185,20	190,81	196,42	202,03	207,64	209,85	212,06
EER			3,37	3,28	3,19	3,12	3,05	3,04	3,02
SEER			6,75	6,54	6,54	6,54	6,54	5,83	5,83
Seasonal operating limits			267	259	259	259	259	230	230
HEATING MODE									
Rated power*		**kW**	**224,00**	**229,50**	**235,00**	**240,50**	**246,00**	**252,50**	**259,00**
Rated power input		kW	58,64	62,62	66,59	70,57	74,55	75,34	76,13
Max. power input		kW	98,80	99,79	100,78	101,78	102,77	107,48	112,18
Rated current		A	98,99	105,71	112,42	119,13	125,85	127,19	128,52
Max. current		A	164,50	166,15	167,81	169,46	171,11	178,95	186,79
COP			3,82	3,67	3,53	3,41	3,30	3,35	3,40
SCOP			4,20	4,20	4,20	4,20	4,21	4,17	4,17
Seasonal operating limits			165	165	165	165	165	164	164
POWER SUPPLY									
Phase/Voltage/Frequency			3P/380-415V/50-60Hz						
PERFORMANCE									
Airflow (HS)		m³/h	68000	69000	70000	71000	72000	72000	72000
Sound pressure	Cooling mode	dB(A)	67	67	67	67	67	67,5	67,5
	Heating mode	dB(A)	67	67	67	67	67	67,5	67,5
Sound power level (HS)		dB(A)	94	95	95	96	96	96	96
INSTALLATION									
Outline dimensions (WxHxD)		mm	1410x1690x750 + 1410x1690x750 + 1410x1690x750 + 1410x1690x750						
Package dimensions (WxHxD)		mm	1485x1858x850 + 1485x1858x850 + 1485x1858x850 + 1485x1858x850						
Net weight/Gross weight		kg	385/410 + 385/410 + 385/410 + 385/410						
Compressor	Type		Scroll DCI						
	Brand		Mitsubishi Electric						
	Number of compressors		8						
Refrigerant/PRP			**R410A/2088**						
Charge		kg	40						
Liquid pipe diameter		inches	7/8"			1"			
Suction pipe diameter		inches	1"3/4			2"			
Max. length		m	1000						
Max. length (equivalent/actual)		m	260/220						
Max. height between indoor and oudoor units (ODU down/up) (1)		m	110/90						
Standard height between indoor and oudoor units (ODU down/up) (2)		m	50/40						
Max. height between indoor units (3)		m	30						
Standard height between indoor units (4)		m	18						
External static pressure		Pa	110						
Indoor/outdoor unit power ratio (min./max.)		%	50~130						
Maximum number of connectable indoor units		quantity	64						
OPERATING LIMITS									
Cooling mode (min./max.)		°C	-5~52						
Heating mode (min./max.)		°C	-27~21						

MAX. LENGTH (EQUIVALENT/ACTUAL)

(1) If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
(2) Standard design and production in the factory.
(3) If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
(4) Standard design and production in the factory.
* All the specifications are tested under nominal condition as per Eurovent conditions (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°C WB).

TECHNICAL DATA FOR FOUR COMBINATIONS

MODEL			VVTA-2665R	VVTA-2720R	VVTA-2775R	VVTA-2830R	VVTA-2885R	VVTA-2940R
COMBINATIONS			VVTA-680R 7VF150058 VVTA-680R 7VF150058 VVTA-680R 7VF150058 VVTA-615R 7VF150057	VVTA-680R 7VF150058 VVTA-680R 7VF150058 VVTA-680R 7VF150058 VVTA-680R 7VF150058	VVTA-735R 7VF150059 VVTA-680R 7VF150058 VVTA-680R 7VF150058 VVTA-680R 7VF150058	VVTA-735R 7VF150059 VVTA-735R 7VF150059 VVTA-680R 7VF150058 VVTA-680R 7VF150058	VVTA-735R 7VF150059 VVTA-735R 7VF150059 VVTA-735R 7VF150059 VVTA-680R 7VF150058	VVTA-735R 7VF150059 VVTA-735R 7VF150059 VVTA-735R 7VF150059 VVTA-735R 7VF150059
Phase			*Three phases*					
Power		HP	94	96	98	100	102	104
COOLING MODE								
Rated power*		**kW**	**265,50**	**272,00**	**277,50**	**283,00**	**288,50**	**294,00**
Rated power input		kW	88,17	90,68	104,76	118,84	132,92	147,00
Max. power input		kW	130,25	131,24	136,23	141,22	146,21	151,20
Rated current		A	146,98	150,60	172,19	193,78	215,37	236,96
Max. current		A	214,27	216,48	224,27	232,06	239,85	247,64
EER			3,01	3,00	2,65	2,38	2,17	2,00
SEER			5,83	5,83	4,90	4,90	4,90	4,90
Seasonal operating limits			230	230	193	193	193	193
HEATING MODE								
Rated power*		**kW**	**265,50**	**272,00**	**277,50**	**283,00**	**288,50**	**294,00**
Rated power input		kW	76,92	77,71	84,54	91,36	98,18	105,00
Max. power input		kW	116,89	121,60	123,65	125,70	127,75	129,80
Rated current		A	129,86	131,20	142,71	154,23	165,75	177,26
Max. current		A	194,63	202,46	205,88	209,29	212,70	216,12
COP			3,45	3,50	3,28	3,10	2,94	2,80
SCOP			4,17	4,17	3,50	3,50	3,50	3,50
Seasonal operating limits			164	164	137	137	137	137
POWER SUPPLY								
Phase/Voltage/Frequency			3P/380-415V/50-60Hz					
PERFORMANCE								
Airflow (HS)		m^3/h	72000	72000	73000	74000	75000	76000
Sound pressure	Cooling mode	dB(A)	68	68	68	68	68	68
	Heating mode	dB(A)	68	68	68	68	68	68
Sound power level (HS)		dB(A)	96	96	96	96	96	96
INSTALLATION								
Outline dimensions (WxHxD)		mm	1410x1690x750 + 1410x1690x750 + 1410x1690x750 + 1410x1690x750					
Package dimensions (WxHxD)		mm	1485x1858x850 + 1485x1858x850 + 1485x1858x850 + 1485x1858x850					
Net weight/Gross weight		kg	385/410 + 385/410 + 385/410 + 385/410					
Compressor	Type		Scroll DCI					
	Brand		Mitsubishi Electric					
	Number of compressors		8					
Refrigerant/PRP			**R410A/2088**					
Charge		kg	40					
Liquid pipe diameter		inches	1"					
Suction pipe diameter		inches	2"		2"1/8			
Max. length		m	1000					
Max. length (equivalent/actual)		m	260/220					
Max. height between indoor and oudoor units (ODU down/up) (1)		m	110/90					
Standard height between indoor and oudoor units (ODU down/up) (2)		m	50/40					
Max. height between indoor unitss (3)		m	30					
Standard height between indoor units (4)		m	18					
External static pressure		Pa	110					
Indoor/outdoor unit power ratio (min./max.)		%	50~130					
Maximum number of connectable indoor units		quantity	64					
OPERATING LIMITS								
Cooling mode (min./max.)		°C	-5~52					
Heating mode (min./max.)		°C	-27~21					

(1) If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
(2) Standard design and production in the factory.
(3) If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
(4) Standard design and production in the factory.
* All the specifications are tested under nominal condition as per Eurovent conditions (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°C WB).

VVEA

DRV Range - 3 pipes energy recovery

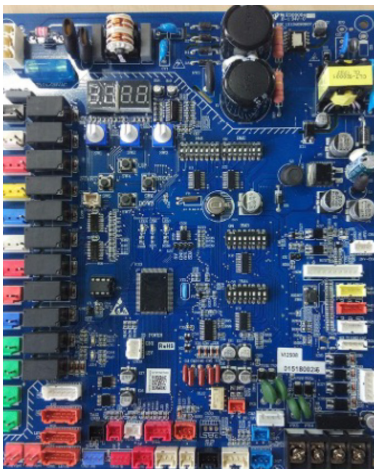
- New range, new structure, new selection boxes.
- Just like the version of our VVTA range, the new VVEA 3-tube energy recovery VRF features the new structure of the range, as well as the 4-way heat exchanger for a performance always at the highest level.
- Offering a wide range of capacity with monomodules with a capacity of 61.5 kW and a possible coupling of 4 outdoor units, the new VVEA will meet all hotel, office and tertiary application needs.

COMPATIBLE

Air Connect Smart

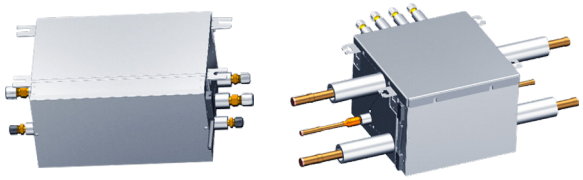
MODBUS OUTPUT INCLUDED

- No need for a gateway anymore to use a centralized controller or integrate the system with a BMS. An addressable and configurable Modbus output is directly available on the outdoor unit.



DISTRIBUTION BOXES

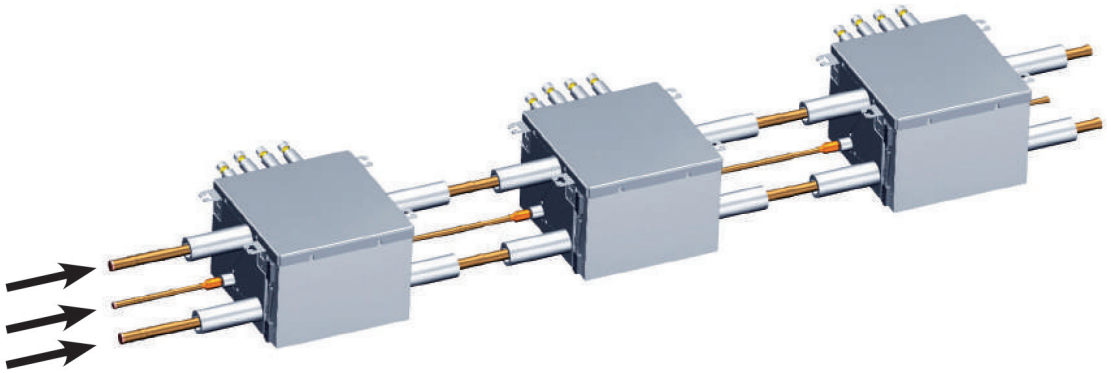
- They incorporate electronic expansion valves replacing the old slide valves for much quieter operation and regulation perfectly suited to the needs of the connected indoor units.
- In addition, the new selection boxes are equipped with 3 additional tubes at the output, allowing it to be put in series for unprecedented modularity. This is valid for boxes with 4 outlets.



- Reduced dimensions.
- Electronic expansion valves for each refrigeration line.

MODEL	CODE	MAXIMUM CONNECTABLE CAPACITY (kW)	POWER SUPPLY	MAXUMUM NUMBER OF CONNECTIBLE INDOOR UNIT (same operation mode)	DIMENSIONS (mm)
KIT VVEA HR 112	7ACELH028	< 11,2	1P/220-240V/50-60Hz	5	388x200x277
KIT VVEA HR 180	7ACELH029	< 18	1P/220-240V/50-60Hz	8	388x200x277
KIT VVEA HR 280	7ACELH030	< 28	1P/220-240V/50-60Hz	8	388x200x277
KIT VVEA HR 450 (4 outlets)	7ACELH031	< 45	1P/220-240V/50-60Hz	20	405x300x421
	TOTAL FOR 4 OUTLETS		TOTAL BY OUTLET		
	TOTAL CAPACITY OF INCOOR UNITS	QUANTITY OF INDOOR UNITS	TOTAL CAPACITY OF INDOOR UNITS	QUANTITY OF INDOOR UNITS	
	≤ 45 kW	≤ 20	≤ 11,2 kW	≤ 5	

- The limit of the input power of a series is 71 kW maximum *.

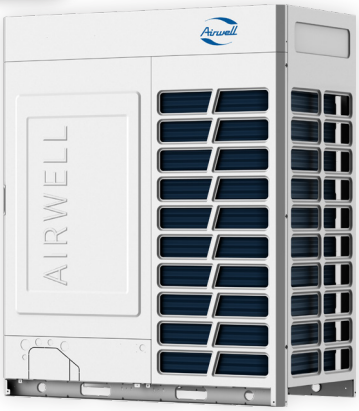


VVEA

3 pipes with heat recovery

FLUID **R410A**

VVEA 250-450



VVEA 504-735

+ PRODUCT

- Capacity from 22,4 to 246 kW
- Combination of 4 outdoor units possible
- New selection boxes
- New 4-way heat exchanger
- Modbus outlet

FlowLogic V

Connectivity

Air Connect Smart

Control system

RWV06 (optional, see configuration page 60)

RWV09 (optional, see configuration page 61)

Technology

DC INVERTER

BLACK FIN TREATMENT

Installer functions

SELF DIAGNOSTIC

BMS COMPATIBLE

SERVICE MONITOR TOOL

CERTIFICATION

- AIRWELL participates in the ECP program for AC1. Check ongoing validity of certificate: www.eurovent-certification.com

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

THE + «SUSTAINABLE DEVELOPMENT»

- Heat recovery between units, for better energy efficiency.

THE + «USER»

- Simultaneous operating in heating and cooling modes.
- New even quieter selection box, thanks to their electronic expansion valve.
- Remotely controllable with AirConnect Smart.
- Silent mode to reduce noise levels in sensitive areas or at night.

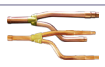
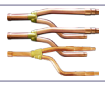
THE + «INSTALLER»

- New improved accessibility, thanks to the service door.
- Up to 1000 m of refrigeration network and 110 m of height difference.
- Modbus outlet for easy BMS integration.
- Access to all operating parameters, thanks to the HMI (Human Machine
- Interface).

THE + «TECHNOLOGY»

- New 4-way selection boxes in series with reversible orientation.
- Automatic oil balance, no need for a balance tube.
- Reinforced anti-corrosion treatment.
- Compatible with AirConnect Smart.
- Cooling of the electrical cabinet by superconducting heat pipe.

ACCESSORIES

ACCESSORY	CODE	RÉF.	PHOTO	FUNCTION	COMMENT
Gather pipe kit for 2 outdoor groups	7ACELH041	TBS20HR		• *Branch pipe refnet*	• *For 2 outdoor units*
Gather pipe kit for 3 outdoor groups	7ACELH042	TBS30HR		• *Branch pipe refnet*	• *For 3 outdoor units*
Gather pipe kit for 4 outdoor groups	7ACELH043	TBS40HR		• *Branch pipe refnet*	• *For 4 outdoor units*
Manifold pipe (gas + liquid)	7ACFHH007	TAU335HR		• *Gather pipe refnet*	• *33,5 kW > Total IDU power.*
	7ACFHH008	TAU506HR		• *Gather pipe refnet*	• *33,5 kW ≤ Total IDU power < 50,6 kW*
	7ACFHH009	TAU730HR		• *Gather pipe refnet*	• *50,6 kW ≤ Total IDU power < 73 kW*
	7ACFHH010	TAU1350HR		• *Gather pipe refnet*	• *73 kW ≤ Total IDU power < 135 kW*
	7ACELH044	TAU2040HR		• *Gather pipe refnet*	• *135 kW ≤ Total IDU power*
Maintenance tool	7ACELH014	TD03		• *Working parameters monitoring and recording tool*	
AirConnect Smart	7ACEL1869	-		• *Remote control by the smart Wi-Fi module and controlled by the AirConnect Smart application*	• *Module dimensions: 86x86x12 mm.*

Pictogram guide p.90

See technical drawings p.68

TECHNICAL DATA

MODEL		EX-FACTORY VVEA-250R-01T32	VVEA-280R-01T32	VVEA-335R-01T32	VVEA-400R-01T32	VVEA-450R-01T32	VVEA-504R-01T32	VVEA-560R-01T32	VVEA-615R-01T32
Code		**7VF150040**	**7VF150041**	**7VF150042**	**7VF150043**	**7VF150044**	**7VF150045**	**7VF150046**	**7VF150047**
Phase		*Three phases*							
Power	HP	8	10	12	14	16	18	20	22
COOLING MODE									
Rated power*	**kW**	**22,40**	**28,00**	**33,50**	**40,00**	**45,00**	**50,00**	**56,00**	**60,00**
Rated power input	kW	5,83	7,67	9,94	12,31	13,93	16,13	17,23	20,00
Max. power input	kW	12,80	13,80	18,20	19,20	25,10	28,50	32,00	33,00
Rated current	A	9,63	12,67	16,43	20,33	23,01	26,64	28,46	33,03
Max. current	A	21,14	22,79	30,06	31,71	41,45	47,07	52,85	54,50
EER		3,84	3,65	3,37	3,25	3,23	3,10	3,25	3,00
SEER		6,12	6,68	6,46	6,37	6,86	6,48	5,90	5,63
Seasonal operating limits		241,80	264,20	255,40	251,80	271,40	256,20	233,00	222,20
HEATING MODE									
Rated power*	**kW**	**22,40**	**28,00**	**33,50**	**40,00**	**45,00**	**50,00**	**56,00**	**60,00**
Rated power input	kW	5,38	6,67	8,77	10,53	11,39	13,70	15,77	17,91
Max. power input	kW	11,50	12,50	17,40	18,40	22,70	25,50	29,40	30,40
Rated current	A	8,88	11,01	14,48	17,38	18,81	22,62	26,05	29,58
Max. current	A	18,99	20,64	28,74	30,39	37,49	42,11	48,55	50,21
COP		4,16	4,20	3,82	3,80	3,95	3,65	3,55	3,35
SCOP		3,82	3,94	3,99	3,86	4,21	3,99	3,93	3,50
Seasonal operating limits		149,80	154,60	156,60	151,40	165,40	156,60	154,20	137,00
POWER SUPPLY									
Phase/Voltage/Frequency		3P/380-415V/50-60Hz							
PERFORMANCE									
Airflow (HS)	m^3/h	12000	12000	13500	13500	17000	17000	19000	19000
Sound pressure (HS)	dB(A)	57	58	60	61	62	63	63	64
INSTALLATION									
Outline dimensions (WxHxD)	mm	980x1690x750				1410x1690x750			
Package dimensions (WxHxD)	mm	1070x1858x850				1515x1858x850			
Net weight/Gross weight	kg	246/271		257/282		366/395		375/404	
Compressor – Type		Scroll DCI							
Compressor – Brand		Mitsubishi Electric							
Compressor – Number of compressors		1				2			
Refrigerant/GWP		**R410A/2088**							
Charge	kg	10							
Liquid pipe diameter	inches	3/8" **		1/2"			5/8"		
Suction pipe diameter	inches	3/4" ***	7/8" ***	1" ***		1"1/8			
Max. length	m	1000							
Max. length (equivalent/actual)	m	260/220							
Max. height between indoor and oudoor units (ODU down/up) [1]	m	110/90							
Standard height between indoor and oudoor units (ODU down/up) [2]	m	50/40							
Max. height between indoor units [3]	m	30							
Standard height between indoor units [4]	m	18							
External static pressure	Pa	110							
Indoor/outdoor unit power ratio (min./max.)	%	50~130							
Maximum number of connectable indoor units	quantity	13	16	20	24	27	30	33	36
OPERATING LIMITS									
Cooling mode (min./max.)	°C	-5~50							
Heating mode (min./max.)	°C	-23~21							

(1) If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
(2) Standard design and production in the factory.
(3) If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
(4) Standard design and production in the factory.
* All the specifications are tested under nominal condition as per Eurovent conditions (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°C WB).

TECHNICAL DATA FOR TWO COMBINATIONS

MODEL			VVEA-670R	VVEA-735R	VVEA-800R	VVEA-850R
COMBINATIONS			VVEA-335R 7VF150042 VVEA-335R 7VF150042	VVEA-335R 7VF150042 VVEA-400R 7VF150043	VVEA-400R 7VF150043 VVEA-400R 7VF150043	VVEA-400R 7VF150043 VVEA-450R 7VF150044
Phase			*Three phases*			
Power		HP	24	26	28	30
COOLING MODE						
Rated power*		**kW**	**67,00**	**73,50**	**80,00**	**85,00**
Rated power input		kW	19,88	22,25	24,62	26,24
Max. power input		kW	36,40	37,40	38,40	44,30
Rated current		A	32,83	36,74	40,65	43,33
Max. current		A	60,11	61,77	63,42	73,16
EER			3,37	3,30	3,25	3,24
SEER			6,46	6,37	6,37	6,37
Seasonal operating limits			255,40	251,80	251,80	251,80
HEATING MODE						
Rated power*		**kW**	**67,00**	**73,50**	**80,00**	**85,00**
Rated power input		kW	17,54	19,30	21,05	21,92
Max. power input		kW	34,80	35,80	36,80	41,10
Rated current		A	28,97	31,87	34,77	36,20
Max. current		A	57,47	59,12	60,78	67,88
COP			3,82	3,81	3,80	3,88
SCOP			3,99	3,86	3,86	3,86
Seasonal operating limits			156,60	151,40	151,40	151,40
POWER SUPPLY						
Phase/Voltage/Frequency			3P/380-415V/50-60Hz			
PERFORMANCE						
Airflow (HS)		m^3/h	27000	27000	27000	30500
Sound pressure (HS)		dB(A)	63	64	64	65
INSTALLATION						
Outline dimensions (WxHxD)		mm	980x1690x750 + 980x1690x750			980x1690x750 + 980x1410x750
Package dimensions (WxHxD)		mm	1070x1858x850 + 1070x1858x850			1070x1858x850 + 1070x1480x850
Net weight/Gross weight		kg	246/271 + 246/271			246/271 + 366/395
Compressor	Type		Scroll DCI			
	Brand		Mitsubishi Electric			
	Number of compressors		2			3
Refrigerant/GWP			**R410A/2088**			
Charge		kg	20			
Liquid pipe diameter		inches	5/8"			3/4"
Suction pipe diameter		inches	1"1/8			1"1/4
Suction pipe diameter haut		inches	1"			1"1/8
Max. length		m	1000			
Max. length (equivalent/actual)		m	260/220			
Max. height between indoor and oudoor units (ODU down/up) (1)		m	110/90			
Standard height between indoor and oudoor units (ODU down/up) (2)		m	50/40			
Max. height between indoor units (3)		m	30			
Standard height between indoor units (4)		m	18			
External static pressure		Pa	110			
Indoor/outdoor unit power ratio (min./ max.)		%	50~130			
Maximum number of connectable indoor units		quantity	40	43	47	50
OPERATING LIMITS						
Cooling mode (min./max.)		°C	-5~50			
Heating mode (min./max.)		°C	-23~21			

(1) If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
(2) Standard design and production in the factory.
(3) If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
(4) Standard design and production in the factory.
* All the specifications are tested under nominal condition as per Eurovent conditions (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°C WB).

TECHNICAL DATA FOR TWO COMBINATIONS

MODEL		VVEA-900R	VVEA-954R	VVEA-1008R	VVEA-1064R	VVEA-1120R	VVEA-1175R	VVEA-1230R
COMBINATIONS		VVEA-450R	VVEA-450R	VVEA-504R	VVEA-504R	VVEA-560R	VVEA-560R	VVEA-615R
		7VF150044	7VF150044	7VF150045	7VF150045	7VF150046	7VF150046	7VF150047
		VVEA-450R	VVEA-504R	VVEA-504R	VVEA-560R	VVEA-560R	VVEA-615R	VVEA-615R
		7VF150044	7VF150045	7VF150045	7VF150046	7VF150046	7VF150047	7VF150047
Phase		*Three phases*						
Power	HP	32	34	36	38	40	42	44
COOLING MODE								
Rated power*	**kW**	**90,00**	**95,00**	**100,00**	**106,00**	**112,00**	**116,00**	**120,00**
Rated power input	kW	27,86	30,06	32,26	33,36	34,46	37,23	40,00
Max. power input	kW	50,20	53,60	57,00	60,50	64,00	65,00	66,00
Rated current	A	46,02	49,65	53,27	55,09	56,91	61,49	66,06
Max. current	A	82,91	88,52	94,14	99,92	105,70	107,35	109,00
EER		3,23	3,16	3,10	3,18	3,25	3,12	3,00
SEER		6,86	6,48	6,48	5,90	5,90	5,63	5,63
Seasonal operating limits		271,40	256,20	256,20	233,00	233,00	222,20	222,20
HEATING MODE								
Rated power*	**kW**	**90,00**	**95,00**	**100,00**	**106,00**	**112,00**	**116,00**	**120,00**
Rated power input	kW	22,78	25,09	27,40	29,47	31,54	33,68	35,82
Max. power input	kW	45,40	48,20	51,00	54,90	58,80	59,80	60,80
Rated current	A	37,63	41,44	45,25	48,67	52,09	55,62	59,16
Max. current	A	74,98	79,60	84,23	90,67	97,11	98,76	100,41
COP		3,95	3,79	3,65	3,60	3,55	3,44	3,35
SCOP		4,21	3,99	3,99	3,93	3,93	3,50	3,50
Seasonal operating limits		165,40	156,60	156,60	154,20	154,20	137,00	137,00
POWER SUPPLY								
Phase/Voltage/Frequency		3P/380-415V/50-60Hz						
PERFORMANCE								
Airflow (HS)	m^3/h	34000	34000	34000	36000	38000	38000	38000
Sound pressure (HS)	dB(A)	65	66	66	66	66	67	67
INSTALLATION								
Outline dimensions (WxHxD)	mm	1410x1690x750 + 1410x1690x750						
Package dimensions (WxHxD)	mm	1515x1858x850 + 1515x1858x850						
Net weight/Gross weight	kg	366/395 + 366/395			366/395 + 375/404		375/404 + 375/404	
Compressor – Type		Scroll DCI						
Compressor – Brand		Mitsubishi Electric						
Compressor – Number of compressors		4						
Refrigerant/GWP		**R410A/2088**						
Charge	kg	20						
Liquid pipe diameter	inches	3/4"						
Suction pipe diameter	inches	1"1/4		1"1/2				
Suction pipe diameter haut	inches	1"1/8		1"3/8				
Max. length	m	1000						
Max. length (equivalent/actual)	m	260/220						
Max. height between indoor and oudoor units (ODU down/up) (1)	m	110/90						
Standard height between indoor and oudoor units (ODU down/up) (2)	m	50/40						
Max. height between indoor units (3)	m	30						
Standard height between indoor units (4)	m	18						
External static pressure	Pa	110						
Indoor/outdoor unit power ratio (min./max.)	%	50~130						
Maximum number of connectable indoor units	quantity	53	56	59	63	64	64	64
OPERATING LIMITS								
Cooling mode (min./max.)	°C	-5~50						
Heating mode (min./max.)	°C	-23~21						

(1) If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
(2) Standard design and production in the factory.
(3) If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
(4) Standard design and production in the factory.
* All the specifications are tested under nominal condition as per Eurovent conditions (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°C WB).

TECHNICAL DATA FOR THREE COMBINATIONS

MODEL			VVEA-1300R	VVEA-1350R	VVEA-1404R	VVEA-1458R	VVEA-1512R	VVEA-1568R
COMBINATIONS			VVEA-400R 7VF150043 VVEA-450R 7VF150044 VVEA-450R 7VF150044	VVEA-450R 7VF150044 VVEA-450R 7VF150044 VVEA-450R 7VF150044	VVEA-450R 7VF150044 VVEA-450R 7VF150044 VVEA-504R 7VF150045	VVEA-450R 7VF150044 VVEA-504R 7VF150045 VVEA-504R 7VF150045	VVEA-504R 7VF150045 VVEA-504R 7VF150045 VVEA-504R 7VF150045	VVEA-504R 7VF150045 VVEA-504R 7VF150045 VVEA-560R 7VF150046
Phase			*Three phases*					
Power		HP	46	48	50	52	54	56
COOLING MODE								
Rated power*		**kW**	**130,00**	**135,00**	**140,00**	**145,00**	**150,00**	**156,00**
Rated power input		kW	40,17	41,80	43,99	46,19	48,39	49,49
Max. power input		kW	69,40	75,30	78,70	82,10	85,50	89,00
Rated current		A	66,34	69,03	72,65	76,28	79,91	81,73
Max. current		A	114,61	124,36	129,97	135,59	141,20	146,98
EER			3,24	3,23	3,18	3,14	3,10	3,15
SEER			6,37	6,86	6,48	6,48	6,48	5,90
Seasonal operating limits			251,80	271,40	256,20	256,20	256,20	233,00
HEATING MODE								
Rated power*		**kW**	**130,00**	**135,00**	**140,00**	**145,00**	**150,00**	**156,00**
Rated power input		kW	33,31	34,18	36,48	38,79	41,10	43,17
Max. power input		kW	63,80	68,10	70,90	73,70	76,50	80,40
Rated current		A	55,01	56,44	60,25	64,06	67,87	71,29
Max. current		A	105,37	112,47	117,09	121,72	126,34	132,78
COP			3,90	3,95	3,84	3,74	3,65	3,61
SCOP			3,86	4,21	3,99	3,99	3,99	3,93
Seasonal operating limits			151,40	165,40	156,60	156,60	156,60	154,20
POWER SUPPLY								
Phase/Voltage/Frequency			3P/380-415V/50-60Hz					
PERFORMANCE								
Airflow (HS)		m^3/h	47500	51000	51000	51000	51000	53000
Sound pressure (HS)		dB(A)	66	67	67	67	68	68
INSTALLATION								
Outline dimensions (WxHxD)		mm	980x1690x750 + 1410x1690x750 + 1410x1690x750	1410x1690x750 + 1410x1690x750 + 1410x1690x750				
Package dimensions (WxHxD)		mm	1070x1858x850 + 1515x1858x850 + 1515x1858x850	1515+1858+850 + 1515+1858+850 + 1515+1858+850				
Net weight/Gross weight		kg	257/282 +366/395 + 366/395	366/395 + 366/395 + 366/395				366/395 + 366/395 + 375/404
Compressor	Type		Scroll DCI					
	Brand		Mitsubishi Electric					
	Number of compressors		5	6				
Refrigerant/GWP			**R410A/2088**					
Charge		kg	30					
Liquid pipe diameter		inches	3/4"					
Suction pipe diameter		inches	1"1/2					
Suction pipe diameter haut		inches	1"3/8					
Max. length		m	1000					
Max. length (equivalent/actual)		m	260/220					
Max. height between indoor and oudoor units (ODU down/up) (1)		m	110/90					
Standard height between indoor and oudoor units (ODU down/up) (2)		m	50/40					
Max. height between indoor units (3)		m	30					
Standard height between indoor units (4)		m	18					
External static pressure		Pa	110					
Indoor/outdoor unit power ratio (min./ max.)		%	50~130					
Maximum number of connectable indoor units		quantity	64					
OPERATING LIMITS								
Cooling mode (min./max.)		°C	-5~50					
Heating mode (min./max.)		°C	-23~21					

(1) If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
(2) Standard design and production in the factory.
(3) If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
(4) Standard design and production in the factory.
* All the specifications are tested under nominal condition as per Eurovent conditions (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°C WB).

TECHNICAL DATA FOR THREE COMBINATIONS

MODEL			VVEA-1624R	VVEA-1680R	VVEA-1735R	VVEA-1790R	VVEA-1845R
COMBINATIONS			VVEA-504R 7VF150045 VVEA-560R 7VF150046 VVEA-560R 7VF150046	VVEA-560R 7VF150046 VVEA-560R 7VF150046 VVEA-560R 7VF150046	VVEA-560R 7VF150046 VVEA-560R 7VF150046 VVEA-615R 7VF150047	VVEA-560R 7VF150046 VVEA-615R 7VF150047 VVEA-615R 7VF150047	VVEA-615R 7VF150047 VVEA-615R 7VF150047 VVEA-615R 7VF150047
Phase			*Three phases*				
Power		HP	58	60	62	64	66
COOLING MODE							
Rated power*		**kW**	**162,00**	**168,00**	**172,00**	**176,00**	**180,00**
Rated power input		kW	50,59	51,69	54,46	57,23	60,00
Max. power input		kW	92,50	96,00	97,00	98,00	99,00
Rated current		A	83,55	85,37	89,94	94,52	99,09
Max. current		A	152,76	158,54	160,20	161,85	163,50
EER			3,20	3,25	3,16	3,08	3,00
SEER			5,90	5,90	5,63	5,63	5,63
Seasonal operating limits			233,00	233,00	222,20	222,20	222,20
HEATING MODE							
Rated power*		**kW**	**162,00**	**168,00**	**172,00**	**176,00**	**180,00**
Rated power input		kW	45,24	47,31	49,45	51,59	53,73
Max. power input		kW	84,30	88,20	89,20	90,20	91,20
Rated current		A	74,71	78,13	81,67	85,20	88,74
Max. current		A	139,22	145,66	147,31	148,97	150,62
COP			3,58	3,55	3,48	3,41	3,35
SCOP			3,93	3,93	3,50	3,50	3,50
Seasonal operating limits			154,20	154,20	137,00	137,00	137,00
POWER SUPPLY							
Phase/Voltage/Frequency			3P/380-415V/50-60Hz				
PERFORMANCE							
Airflow (HS)		m^3/h	55000	57000	57000	57000	57000
Sound pressure (HS)		dB(A)	68	68	68	68	69
INSTALLATION							
Outline dimensions (WxHxD)		mm	1410x1690x750 + 1410x1690x750 + 1410x1690x750+				
Package dimensions (WxHxD)		mm	1515+1858+850 + 1515+1858+850 + 1515+1858+850				
Net weight/Gross weight		kg	366/395 + 375/404 + 375/404	375/404 + 375/404 + 375/404			
Compressor	Type		Scroll DCI				
	Brand		Mitsubishi Electric				
	Number of compressors		6				
Refrigerant/GWP			**R410A/2088**				
Charge		kg	30				
Liquid pipe diameter		inches	3/4"				
Suction pipe diameter		inches	1"5/8				
Suction pipe diameter haut		inches	1"1/2				
Max. length		m	1000				
Max. length (equivalent/actual)		m	260/220				
Max. height between indoor and oudoor units (ODU down/up) (1)		m	110/90				
Standard height between indoor and oudoor units (ODU down/up) (2)		m	50/40				
Max. height between indoor units (3)		m	30				
Standard height between indoor units (4)		m	18				
External static pressure		Pa	110				
Indoor/outdoor unit power ratio (min./max.)		%	50~130				
Maximum number of connectable indoor units		quantity	64				
OPERATING LIMITS							
Cooling mode (min./max.)		°C	-5~50				
Heating mode (min./max.)		°C	-23~21				

(1) If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
(2) Standard design and production in the factory.
(3) If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
(4) Standard design and production in the factory.
* All the specifications are tested under nominal condition as per Eurovent conditions (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°C WB).

TECHNICAL DATA FOR FOUR COMBINATIONS

MODEL		VVEA-1908R	VVEA-1962R	VVEA-2016R	VVEA-2072R	VVEA-2128R	VVEA-2184R
COMBINATIONS		VVEA-450R 7VF150044 VVEA-450R 7VF150044 VVEA-504R 7VF150045 VVEA-504R 7VF150045	VVEA-450R 7VF150044 VVEA-504R 7VF150045 VVEA-504R 7VF150045 VVEA-504R 7VF150045	VVEA-504R 7VF150045 VVEA-504R 7VF150045 VVEA-504R 7VF150045 VVEA-504R 7VF150045	VVEA-504R 7VF150045 VVEA-504R 7VF150045 VVEA-504R 7VF150045 VVEA-560R 7VF150046	VVEA-504R 7VF150045 VVEA-504R 7VF150045 VVEA-560R 7VF150046 VVEA-560R 7VF150046	VVEA-504R 7VF150045 VVEA-560R 7VF150046 VVEA-560R 7VF150046 VVEA-560R 7VF150046
Phase		*Three phases*					
Power	HP	68	70	72	74	76	78
COOLING MODE							
Rated power*	**kW**	**190,00**	**195,00**	**200,00**	**206,00**	**212,00**	**218,00**
Rated power input	kW	60,12	62,32	64,52	65,62	66,72	67,82
Max. power input	kW	107,20	110,60	114,00	117,50	121,00	124,50
Rated current	A	99,29	102,92	106,55	108,37	110,19	112,01
Max. current	A	177,04	182,66	188,27	194,05	199,83	205,61
EER		3,16	3,13	3,10	3,14	3,18	3,21
SEER		6,48	6,48	6,48	5,90	5,90	5,90
Seasonal operating limits		256,20	256,20	256,20	233,00	233,00	233,00
HEATING MODE							
Rated power*	**kW**	**190,00**	**195,00**	**200,00**	**206,00**	**212,00**	**218,00**
Rated power input	kW	50,18	52,49	54,79	56,87	58,94	61,01
Max. power input	kW	96,40	99,20	102,00	105,90	109,80	113,70
Rated current	A	82,88	86,68	90,49	93,91	97,34	100,76
Max. current	A	159,21	163,83	168,45	174,89	181,34	187,78
COP		3,79	3,72	3,65	3,62	3,60	3,57
SCOP		3,99	3,99	3,99	3,93	3,93	3,93
Seasonal operating limits		156,60	156,60	156,60	154,20	154,20	154,20
POWER SUPPLY							
Phase/Voltage/Frequency		3P/380-415V/50-60Hz					
PERFORMANCE							
Airflow (HS)	m^3/h	68000	68000	68000	70000	72000	74000
Sound pressure (HS)	dB(A)	69	69	69	69	69	69
INSTALLATION							
Outline dimensions (WxHxD)	mm	1410x1690x750 + 1410x1690x750 + 1410x1690x750 + 1410x1690x750					
Package dimensions (WxHxD)	mm	1515+1858+850 + 1515+1858+850 + 1515+1858+850 + 1515+1858+850					
Net weight/Gross weight	kg	366/395 + 366/395 + 366/395 + 366/395			366/395 + 366/395 + 366/395 + 375/404	366/395 + 366/395 + 375/404 + 375/404	366/395 + 375/404 + 375/404 + 375/404
Compressor	Type	Scroll DCI					
	Brand	Mitsubishi Electric					
	Number of compressors	8					
Refrigerant/GWP		**R410A/2088**					
Charge	kg	40					
Liquid pipe diameter	inches	7/8"					
Suction pipe diameter	inches	1"3/4					
Suction pipe diameter haut	inches	1"5/8					
Max. length	m	1000					
Max. length (equivalent/actual)	m	260/220					
Max. height between indoor and oudoor units (ODU down/up) (1)	m	110/90					
Standard height between indoor and oudoor units (ODU down/up) (2)	m	50/40					
Max. height between indoor units (3)	m	30					
Standard height between indoor units (4)	m	18					
External static pressure	Pa	110					
Indoor/outdoor unit power ratio (min./max.)	%	50~130					
Maximum number of connectable indoor units	quantity	64					
OPERATING LIMITS							
Cooling mode (min./max.)	°C	-5~50					
Heating mode (min./max.)	°C	-23~21					

(1) If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
(2) Standard design and production in the factory.
(3) If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
(4) Standard design and production in the factory.
* All the specifications are tested under nominal condition as per Eurovent conditions (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°C WB).

TECHNICAL DATA FOR FOUR COMBINATIONS

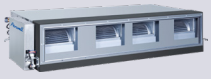
MODEL		VVEA-2240R	VVEA-2295R	VVEA-2350R	VVEA-2405R	VVEA-2460R
COMBINATIONS		VVEA-560R 7VF150046 VVEA-560R 7VF150046 VVEA-560R 7VF150046 VVEA-560R 7VF150046	VVEA-560R 7VF150046 VVEA-560R 7VF150046 VVEA-560R 7VF150046 VVEA-615R 7VF150047	VVEA-560R 7VF150046 VVEA-560R 7VF150046 VVEA-615R 7VF150047 VVEA-615R 7VF150047	VVEA-560R 7VF150046 VVEA-615R 7VF150047 VVEA-615R 7VF150047 VVEA-615R 7VF150047	VVEA-615R 7VF150047 VVEA-615R 7VF150047 VVEA-615R 7VF150047 VVEA-615R 7VF150047
Phase		*Three phases*				
Power	HP	80	82	84	86	88
COOLING MODE						
Rated power*	**kW**	**224,00**	**228,00**	**232,00**	**236,00**	**240,00**
Rated power input	kW	68,92	71,69	74,46	77,23	80,00
Max. power input	kW	128,00	129,00	130,00	131,00	132,00
Rated current	A	113,83	118,40	122,97	127,55	132,12
Max. current	A	211,39	213,04	214,70	216,35	218,00
EER		3,25	3,18	3,12	3,06	3,00
SEER		5,90	5,63	5,63	5,63	5,63
Seasonal operating limits		233,00	222,20	222,20	222,20	222,20
HEATING MODE						
Rated power*	**kW**	**224,00**	**228,00**	**232,00**	**236,00**	**240,00**
Rated power input	kW	63,08	65,22	67,36	69,50	71,64
Max. power input	kW	117,60	118,60	119,60	120,60	121,60
Rated current	A	104,18	107,71	111,25	114,78	118,31
Max. current	A	194,22	195,87	197,52	199,17	200,82
COP		3,55	3,50	3,44	3,40	3,35
SCOP		3,93	3,50	3,50	3,50	3,50
Seasonal operating limits		154,20	137,00	137,00	137,00	137,00
POWER SUPPLY						
Phase/Voltage/Frequency		3P/380-415V/50-60Hz				
PERFORMANCE						
Airflow (HS)	m^3/h	76000	76000	76000	76000	76000
Sound pressure (HS)	dB(A)	69	69	70	70	70
INSTALLATION						
Outline dimensions (WxHxD)	mm	1410x1690x750 + 1410x1690x750 + 1410x1690x750 + 1410x1690x750				
Package dimensions (WxHxD)	mm	1515x1858x850 + 1515x1858x850 + 1515x1858x850 + 1515x1858x850				
Net weight/Gross weight	kg	375/404 + 375/404 + 375/404 + 375/404				
Compressor – Type		Scroll DCI				
Compressor – Brand		Mitsubishi Electric				
Compressor – Number of compressors		8				
Refrigerant/GWP		**R410A/2088**				
Charge	kg	40				
Liquid pipe diameter	inches	7/8"			1"	
Suction pipe diameter	inches	1"3/4			2"	
Suction pipe diameter haut	inches	1"5/8			1"3/4	
Max. length	m	1000				
Max. length (equivalent/actual)	m	260/220				
Max. height between indoor and oudoor units (ODU down/up) (1)	m	110/90				
Standard height between indoor and oudoor units (ODU down/up) (2)	m	50/40				
Max. height between indoor units (3)	m	30				
Standard height between indoor units (4)	m	18				
External static pressure	Pa	110				
Indoor/outdoor unit power ratio (min./max.)	%	50~130				
Maximum number of connectable indoor units	quantité	64				
OPERATING LIMITS						
Cooling mode (min./max.)	°C	-5~50				
Heating mode (min./max.)	°C	-23~21				

(1) If the height difference between the outdoor and the indoor units is from 50 to 110m, you MUST contact your local distributor/dealer for individual design and production.
(2) Standard design and production in the factory.
(3) If the height difference between the indoor units is from 18 to 30m, you MUST contact your local distributor/dealer for individual design and production.
(4) Standard design and production in the factory.
* All the specifications are tested under nominal condition as per Eurovent conditions (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°C WB).

INDOOR UNITS

The indoor units in the FlowLogic range are suitable for all applications and projects. From the 4-way cassette to the 360° cassette, from the extra-flat ducted unit to the high-pressure ducted unit, and from the wall-mounted unit to the ceiling-mounted unit, Airwell meets all thermal comfort needs.

- Equipped with DC Inverter fan motors offering high aeraulic performance with a very low noise level and an electronic expansion valve offering 475 opening steps, the indoor units in the range will combine **comfort and performance**.
- The entire range of indoor units offers a **standard dry contact** allowing the unit to be controlled through a window contact, door contact or a "room card" for a hotel application.
- At Airwell, each indoor unit comes with its RWV11 wired or RCV03 infrared remote control.

	MODELS			FLUID TYPE
p.40		HI-WALL	HVVA	R410A
p.41		CASSETTE 600X600	CVQA	R410A
p.42		SINGLE WAY CASSETTE	CVPA	R410A
p.43		CASSETTE 360°	CVTA	R410A
p.44		LOW-PRESSURE DUCTED	DVLA	R410A
p.45		MEDIUM-PRESSURE DUCTED	DVMA	R410A
p.46		HIGH-PRESSURE DUCTED	DVHA	R410A
p.47		FULL FRESH AIR DUCTED	DVFA	R410A
p.48		CONSOLE	XVVA	R410A
p.49		FLOOR-CEILING	FVVA	R410A
p.50		HYDROBOX	OVVA	R410A
p.52		AHU CONNECTION KIT		

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	73,5
HVVA	•	•	•	•	•	•	•		•							
CVQA	•	•	•	•	•	•										
CVPA		•	•	•												
CVTA		•	•	•	•	•	•		•	•	•	•				
DVLA		•	•	•	•											
DVMA	•	•	•	•	•	•	•	•	•	•	•	•				
DVHA													•	•		
DVFA						•	•		•	•	•		•	•		
XVVA			•	•		•										
FVVA			•	•	•	•	•	•	•	•	•					
OVVA								•			•			•		
AHU connection kit			•	•	•	•	•	•	•	•	•	•	•	•	•	•

+ PRODUCT

- RCV03 remote control included (see page 62)
- DC Inverter tangential fan
- Panel digital screen
- Dry contact available

HVVA

Hi-Wall

FLUID **R410A**

RCV03 included

Control system

RWV11 (optional)

RWV03 V2 (optional)

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 can be connected using the dry contact: room card, presence detector.

THE ⊕ «INSTALLER»

- Slim design

THE ⊕ «TECHNOLOGY»

- Optimal regulation thanks to its electronic expansion valve.

TECHNICAL DATA

INDOOR UNIT		HVVA-025/022/015N-01M22			HVVA-035N-01M22	HVVA-050/045N-01M22		HVVA-070N-01M22	EX-FACTORY HVVA-090N-01M22
Code		**7VF020001**			**7VF020002**	**7VF020003**		**7VF020004**	**7VF020005**
Phase		*Single phase*							
RATED POWER									
Cooling mode	kBtu/h	5,10	7,50	9,50	12,30	15,30	19,10	24,20	30,70
	kW	**1,50**	**2,20**	**2,80**	**3,60**	**4,50**	**5,60**	**7,10**	**9,00**
Heating mode	kBtu/h	5,80	8,50	10,90	13,60	17,10	21,50	27,30	34,10
	kW	**1,70**	**2,50**	**3,20**	**4,00**	**5,00**	**6,30**	**8,00**	**10,00**
ELECTRICAL PARAMETERS									
Phase/Voltage/Frequency		1P/220-240V/50-60Hz							
PERFORMANCES									
Airflow (LS/MS/HS)	m^3/h	370/430/500	420/480/550	470/530/600	500/560/630	650/720/800	720/800/920	800/920/1010	1400/1500/1600
Sound pressure (LS/MS/HS)	dB(A)	29/31/35	29/31/35	29/31/36	29/33/37	34/36/39	35/39/40	36/40/44	41/44/49
Sound power level (LS/MS/HS)	dB(A)	42/47/50	42/47/50	44/48/52	50/51/54	51/53/56	52/54/57	54/56/58	54/58/61
INSTALLATION									
Outline dimensions (WxHxD)	mm	855x280x208	855x280x208		855x280x208	1115x336x243		1115x336x243	1316x365x270
Package dimensions (WxHxD)	mm	954x355x279	954x355x279		954x355x279	1206x418x342		1206x418x342	1403x463x384
Net weight/Gross weight	kg	9,9/12	9,9/12		9,9/12	15,8/18,9		15,8/18,9	21,8/26,3
Liquid pipe diameter	inches	1/4"	1/4"		1/4"	1/4"		3/8"	3/8"
Suction pipe diameter	inches	1/2"	3/8"		1/2"	1/2"		5/8"	5/8"

Pictogram guide p.90

See technical drawings p.69

CVQA

Cassette 600x600

FLUID
R410A

RWV11
included

THE ⊕ « SUSTAINABLE DEVELOPMENT »

- Energy savings (mode locking, setpoint limits).

THE ⊕ « USER »

- Air renewal by supply of fresh air.
- Multiple applications can be connected using the dry contact: room card, presence detector.

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.
- Individual opening of each flap.

TECHNICAL DATA

INDOOR UNIT		CVQA-025/022/015N-01M22			CVQA-050/045/035N-01M22		
Code		**7VF040001**			**7VF040002**		
Phase		*Single phase*					
RATED POWER							
Cooling mode	kBtu/h	5,10	7,50	9,50	12,30	15,30	19,10
	kW	**1,50**	**2,20**	**2,80**	**3,60**	**4,50**	**5,60**
Heating mode	kBtu/h	5,80	8,50	10,90	13,60	17,10	21,50
	kW	**1,70**	**2,50**	**3,20**	**4,00**	**5,00**	**6,30**
ELECTRICAL PARAMETERS							
Phase/Voltage/Frequency		1P/220-240V/50-60Hz					
PERFORMANCES							
Airflow (LS/MS/HS)	m³/h	430/540/650	480/590/700				
Sound pressure (LS/MS/HS)	dB(A)	29/30/32			29/30/33		29/30/34
Sound power level (LS/MS/HS)	dB(A)	43/44/46			43/44/47		44/46/48
INSTALLATION							
Outline dimensions (WxHxD)	mm	580x260x580					
Package dimensions (WxHxD)	mm	718x380x680					
Net weight/Gross weight	kg	16/19			19/22		
Liquid pipe diameter	inches	1/4"			1/4"		
Suction pipe diameter	inches	3/8"			1/2"		
PANEL							
Panel code		**7ACVF0601**					
Outline dimensions (WxHxD)	mm	620x60x620					
Package dimensions (WxHxD)	mm	660x115x660					

See technical drawings p.70

+ PRODUCT

- RWV11 remote control included (see page 65)
- New design
- New DC Inverter fan motor
- Integrated condensates pump
- Fresh air inlet
- Dry contact available
- Facade with presence detector

Control system

RCV03
(optional)

RWV03 V2
(optional)

Technology

ELECTRONIC EXPANSION VALVE

Air quality / clean

FRESH AIR

User functions

I FEEL

PROGRAMMABLE TIMER

AUTO RESTART MEMORY

Installer functions

INTEGRATED CONDENSATES PUMP

DRY CONTACT ON/OFF

Pictogram guide p.90

+ PRODUCT

- RWV11 remote control included (see page 665)
- Contemporary design
- Integrated condensate pump
- Low noise level

CVPA

1-way Cassette

FLUID **R410A**

RWV11 included

Control system

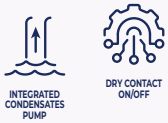
RCV03 (optional)

RWV03 V2 (optional)

Technology

User functions

Installer functions



THE ⊕ «SUSTAINABLE DEVELOPMENT»

- Energy savings (mode blocking, setpoint limiting).

THE ⊕ «TECHNOLOGY»

- Optimal regulation, thanks to its electronic expansion valve.

THE ⊕ «INSTALLER»

- Easy integration in false ceilings, thanks to its low thickness.
- Easy installation, thanks to its integrated condensate pump.

TECHNICAL DATA

		EX-FACTORY		
INDOOR UNIT		**CVPA-025/022N-01M22**		**CVPA-035N-01M22**
Code		**7VF040004**		**7VF040003**
Phase		*Single phase*		
RATED POWER				
Cooling mode	kBtu/h	7,50	9,60	12,30
	kW	**2,20**	**2,80**	**3,60**
Heating mode	kBtu/h	8,50	10,90	13,60
	kW	**2,50**	**3,20**	**4,00**
ELECTRICAL PARAMETERS				
Phase/Voltage/Frequency		1P/220-240V/50-60Hz		
PERFORMANCES				
Airflow (LS/MS/HS)	m^3/h	450/490/530		490/530/550
Sound pressure (LS/MS/HS)	dB(A)	24/29/32		25/30/34
Sound power level (LS/MS/HS)	dB(A)	38/43/46		39/44/48
INSTALLATION				
Outline dimensions (WxHxD)	mm	875x185x505		
Package dimensions (WxHxD)	mm	1028x270x581		
Net weight/Gross weight	kg	15,3/17,9		
Liquid pipe diameter	inches	1/4"		
Suction pipe diameter	inches	3/8"		
PANEL				
Panel code		**7ACVFH004**		
Dimensions de l'unité (LxHxP)	mm	1050x122x560		
Dimensions de l'emballage (LxHxP)	mm	1133x197x623		
Poids net/Poids de l'emballage	kg	5,3/8,3		

ⓘ Pictogram guide p.90

ⓘ See technical drawings p.71

CVTA
Cassette 360°

FLUID
R410A

RWV11
included

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 can be connected using the dry contact: room card, presence detector.

THE ⊕ « INSTALLER »
- Simple installation (180 mm high).

THE ⊕ « TECHNOLOGY »
- Optimal regulation thanks to its electronic expansion valve.
- Individual opening of each flap.

+ PRODUCT

- RWV11 remote control included (see page 65)
- 360° air blowing
- New DC Inverter fan motor
- Integrated condensates pump
- Extra-slim cassette
- Fresh air inlet
- Dry contact available
- Facade with presence detector (optional)

Control system

RCV03
(optional)

RWV03 V2
(optional)

Technology

Air quality / clean

User functions

Installer functions

TECHNICAL DATA

EX-FACTORY

INDOOR UNIT		CVTA-025/022N-01M22	CVTA-035N-01M22	CVTA-050/045N-01M22	CVTA-070N-01M22	CVTA-110/090N-01M22	CVTA-160/140N-01M22
Code		**7VF040008**	**7VF040009**	**7VF040010**	**7VF040011**	**7VF040012**	**7VF040013**
Phase		Single phase					
RATED POWER							
Cooling mode	kBtu/h	7,50	9,50	12,30	15,30	19,10	24,20	30,70	38,20	47,70	54,60
	kW	**2,20**	**2,80**	**3,60**	**4,50**	**5,60**	**7,10**	**9,00**	**11,20**	**14,00**	**16,00**
Heating mode	kBtu/h	8,50	10,90	13,60	17,10	21,50	27,30	34,10	42,60	54,60	61,20
	kW	**2,50**	**3,20**	**4,00**	**5,00**	**6,30**	**8,00**	**10,00**	**12,50**	**16,00**	**18,00**
ELECTRICAL PARAMETERS							
Phase/Voltage/ Frequency		1P/220-230V/50-60Hz					
PERFORMANCES							
Airflow (LS/MS/HS)	m³/h	620/810/1000			1000/ 1190/ 1380	1670/1860/2050	1720/1910/2100
Sound pressure (LS/MS/HS)	dB(A)	25/27/30		27/29/ 32	29/30/ 33	31/34/ 35	31/35/37	36/40/44
Sound power level (LS/MS/HS)	dB(A)	-		41/43 /46	43/44 /47	45/48 /49	45/49/51	50/54/58
INSTALLATION							
Outline dimensions (WxHxD)	mm	840x183x840			840 x204 x840	840x204x840	840x288x840
Package dimensions (WxHxD)	mm	983x268x983			983 x290 x983	983x331x983	983x373x983
Net weight/Gross weight	kg	25/28			27/30	31/36	33/38
Liquid pipe diameter	inches	1/4"			3/8"		
Suction pipe diameter	inches	3/8"	1/2"		5/8"		
PANEL							
Standard panel code		**7ACVH003**					
Panel code with presence detector		**7ACVF0006** EX-FACTORY					
Outline dimensions (WxHxD)	mm	950x50x950					
Package dimensions (WxHxD)	mm	1013x123x1025					
Net weight/Gross weight	kg	6,5/9					

See technical drawings p.72

Pictogram guide p.90

+ PRODUCT

- RWV11 remote control included (see page 65)
- New DC Inverter fan motor
- Integrated condensates pump
- Extra-slim unit
- Fresh air supply
- Adjustable static pressure 0-30 Pa
- Dry contact available

DVLA

Low-pressure ducted

FLUID **R410A**

RWV11 included

Control system

RCV03 (optional)

RWV03 V2 (optional)

Technology

ELECTRONIC EXPANSION VALVE

AIR FLOW 4D

Air quality / clean

FRESH AIR

User functions

I FEEL

SUPER QUIET

PROGRAMMABLE TIMER

AUTO RESTART MEMORY

Installer functions

INTEGRATED CONDENSATES PUMP

DRY CONTACT ON/OFF

THE ⊕ «SUSTAINABLE DEVELOPMENT»

- Energy savings (mode locking, setpoint limits).

THE ⊕ «USER»

- Super quiet 21 dB.
- Design solution thanks to its motorised panel.
- Directable airflow.
- Air renewal by supply of fresh air.
- Multiple applications can be connected using the dry contact: room card, presence detector.

THE ⊕ «INSTALLER»

- Simple installation: similar dimensions across the range.
- Slim design 185 mm.

THE ⊕ «TECHNOLOGY»

- Optimal regulation thanks to its electronic expansion valve.
- Front panel with digital display.
- Rear or underside air intake.
- Motorized panels and filter holder return grille for simple and elegant integration as an option.

TECHNICAL DATA

INDOOR UNIT			DVLA-025/022/015-01M22			DVLA-035-01M22	DVLA-045-01M22
Code			**7VF030003**			**7VF030004**	**7VF030005**
Phase			*Single phase*				
RATED POWER							
Cooling mode		kBtu/h	5,10	7,50	9,50	12,30	15,30
		kW	**1,50**	**2,20**	**2,80**	**3,60**	**4,50**
Heating mode		kBtu/h	5,80	8,50	10,90	13,60	17,10
		kW	**1,70**	**2,50**	**3,20**	**4,00**	**5,00**
ELECTRICAL PARAMETERS							
Phase/Voltage/Frequency			1P/220-230V/50-60Hz				
PERFORMANCES							
Airflow (LS/MS/HS)		m^3/h	310/370/430	360/420/480		370/430/550	460/540/600
Sound pressure (LS/MS/HS)		dB(A)	19/22/26	20/23/27		24/27/30	26/29/32
Sound power level (LS/MS/HS)		dB(A)	33/36/40	34/37/41		38/41/44	40/43/46
INSTALLATION							
Outline dimensions (WxHxD)		mm	850x185x420			850x185x420	850x185x420
Package dimensions (WxHxD)		mm	1045x270x540			1045x270x540	1045x270x540
Net weight/Gross weight		kg	17,5/22,5			17,5/22,5	18,5/23,5
Liquid pipe diameter		inches	1/4"				
Suction pipe diameter		inches	3/8"			1/2"	
External static pressure (min./ standard/max.)		Pa	0/15/30				
PANEL							
Panel code			**7ACVF0587**				
Dimensions (LxHxP)	Supply	mm	890x100x190				
	Return	mm	890x291x32,4				
Package dimensions (WxHxD)		mm	938x335x220				
Net weight/Gross weight		kg	4/5				

Pictogram guide p.90

See technical drawings p.73

DVMA

Medium-pressure ducted

FLUID
R410A

RWV11
included

THE ⊕ « SUSTAINABLE DEVELOPMENT »

- Energy savings (mode locking, setpoint limits).

THE ⊕ « USER »

- Air renewal by supply of fresh air.
- Multiple applications can be connected using the dry contact: room card, presence detector.

THE ⊕ « INSTALLER »

- Ease of installation thanks to its small dimensions.
- Integrated condensates pump.
- Rear or underside air intake.

THE ⊕ « TECHNOLOGY »

- Optimal regulation thanks to its electronic expansion valve.
- Adaptability to the ventilation network thanks to its adjustable static pressure.

TECHNICAL DATA

INDOOR UNIT		DVMA-025/022/015N-01M22			DVMA-035N-01M22	DVMA-045N-01M22 (EX-FACTORY)	DVMA-080/070/050N-01M22			DVMA-090N-01M22 (EX-FACTORY)	DVMA-110N-01M22	DVMA-160/140N-01M22	
Code		7VF030010			7VF 030011	7VF 030012	7VF030013			7VF 030014	7VF 030015	7VF030016	
Phase		Single phase											
RATED POWER													
Cooling mode	kBtu/h	5,10	7,50	9,60	12,30	15,30	19,10	24,20	27,30	30,70	38,20	47,80	54,60
	kW	**1,50**	**2,20**	**2,80**	**3,60**	**4,50**	**5,60**	**7,10**	**8,00**	**9,00**	**11,20**	**14,00**	**16,00**
Heating mode	kBtu/h	5,80	8,50	10,90	13,70	17,00	21,50	27,30	30,70	34,10	44,40	55,60	61,40
	kW	**1,70**	**2,50**	**3,20**	**4,00**	**5,00**	**6,30**	**8,00**	**9,00**	**10,00**	**13,00**	**16,30**	**18,00**
ELECTRICAL PARAMETERS													
Phase/Voltage/ Frequency		1P/220-240V/50-60Hz											
PERFORMANCES													
Airflow (LS/MS/HS)	m³/h	515/ 440/ 390	545/ 470/ 390	545/ 470/ 390	570/ 495/ 420	700/ 625/ 550	640/ 765/ 915	875/ 1050/ 1275		1400/ 1700/ 2000	1400/ 1750/ 2150	1600/ 1950/ 2350	1600/ 1950/ 2350
Sound pressure (LS/MS/HS)	dB(A)	29/ 27/ 25	30/ 28/ 25	30/ 28/ 25	31/ 29/ 27	32/ 30/ 28	29/ 31/ 33	29/ 31/ 34	30/ 33/ 35	32/ 35/ 38	32/ 36/ 40	34/ 38/ 42	34/ 38/ 42
Sound power level (LS/MS/HS)	dB(A)	41/ 39/ 37	42/ 40/ 37	42/ 40/ 37	43/ 41/ 39	44/ 42/ 40	41/ 43/ 45	41/ 43/ 46	42/ 45/ 47	44/ 47/ 50	44/ 48/ 52	46/ 50/ 54	46/ 50/ 54
INSTALLATION													
Outline dimensions (WxHxD)	mm	700 x700 x248	700 x700 x248	700 x700 x248	700 x700 x248	700 x700 x248	1100x248x700				1500x248x700		
Package dimensions (WxHxD)	mm	932 x835 x280	932 x835 x280	932 x835 x280	932 x835 x280	932 x835 x280	1332x280x835				1698x305x857		
Net weight/ Gross weight	kg	27/ 32	27/ 32	27/ 32	27/ 32	28,5/ 33,5	36,8/43,4			39,4/ 45,4	48,3/ 56,5	51,3/59,5	
Liquid pipe diameter	inches	1/4"	1/4"	1/4"	1/4"	1/4"	3/8"						
Suction pipe diameter	inches	3/8"	3/8"	3/8"	1/2"	1/2"	5/8"						
External static pressure (standard/max.)	Pa	20/200	20/200	20/200	20/200	20/200				20/180			

See technical drawings p.74

+ PRODUCT

- RWV11 remote control included (see page 65)
- New motovenilateur DC Inverter
- Integrated condensates pump
- Wide power range
- Extra-slim unit 250 mm
- Adjustable static pressure from 20 to 200 Pa
- Dry contact available

Control system

RCV03
(optional)

RWV03 V2
(optional)

Technology

ELECTRONIC EXPANSION VALVE

Air quality / clean

FRESH AIR

User functions

I FEEL

SUPER QUIET

PROGRAMMABLE TIMER

AUTO RESTART MEMORY

Installer functions

INTEGRATED CONDENSATES PUMP

DRY CONTACT ON/OFF

Pictogram guide p.90

DVHA

High-pressure ducted

FLUID
R410A

+ PRODUCT

- RWV11 remote control included (see page 65)
- High static pressure and airflow 4050 m3/h
- High power from 5.6 to 28 kW
- Dry contact available

RWV11
included

Systèmes de contrôle

RCV03
(optional)

RWV03 V2
(optional)

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 300 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.

TECHNICAL DATA

INDOOR UNIT		DVHA-280/220N-01M22	
Code		**7VF030017**	
Phase		*Single phase*	
RATED POWER			
Cooling mode	kBtu/h	77,10	95,50
	kW	**22,60**	**28,00**
Heating mode	kBtu/h	86,00	107,50
	kW	**25,20**	**31,50**
ELECTRICAL PARAMETERS			
Phase/Voltage/Frequency		1P/220-240V/50-60Hz	
PERFORMANCES			
Airflow (TPV/LS/MS/HS)	m³/h	2700/3200/3600/4000	3300/3700/4100/4500
Sound pressure (TPV/LS/MS/HS)	dB(A)	46/48/50/53	47/49/51/54
Sound power level (TPV/LS/MS/HS)	dB(A)	60/62/64/67	61/63/65/68
INSTALLATION			
Outline dimensions (WxHxD)	mm	1333x750x497	
Package dimensions (WxHxD)	mm	1558x896x668	
Net weight/Gross weight	kg	87/109	
Liquid pipe diameter	inches	1/2"	
Suction pipe diameter	inches	7/8"	
External static pressure (standard/max.)	Pa	100/300	

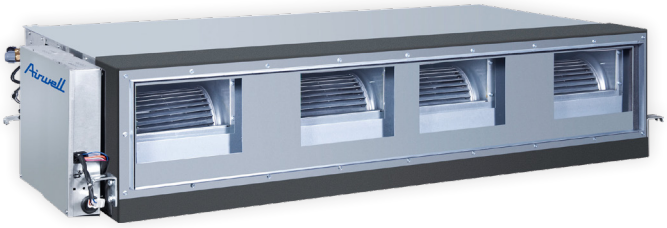
Pictogram guide p.90

See technical drawings p.75

DVFA

High-pressure ducted fresh air

FLUID
R410A



RWV11
included

+ PRODUCT

- RWV11 remote control included (see page 65)
- Fresh air inlet
- Adjustable static pressure from 20 to 200 Pa

Control system

RCV03
(optional)

RWV03 V2
(optional)

Technology

ELECTONIC EXPANSION VALVE

Air quality / clean

FRESH AIR

User functions

I FEEL

PROGRAMMABLE TIMER

AUTO RESTART MEMORY

THE ⊕ «USER»

- 100% fresh air inlet.

THE ⊕ «INSTALLER»

- Installation compatible to all types of ducting network.

THE ⊕ «TECHNOLOGY»

- Adaptability to the ventilation network thanks to its adjustable static pressure.

TECHNICAL DATA

		EX-FACTORY		
INDOOR UNIT		**DVFA-140N-01M22**	**DVFA-280/220N-01M22**	
Code		**7VF030019**	**7VF030018**	
Phase		*Single phase*		
RATED POWER				
Cooling mode	kBtu/h	47,70	77,10	95,50
	kW	**14,00**	**22,60**	**28,00**
Heating mode	kBtu/h	34,10	68,20	83,50
	kW	**10,00**	**20,00**	**24,50**
ELECTRICAL PARAMETERS				
Phase/Voltage/Frequency		1P/220-240V/50-60Hz		
PERFORMANCES				
Airflow (TPV/LS/MS/HS)	m³/h	1200/1460/1600/1900	1500/1800/2300/2800	2000/2400/2800/3200
Sound pressure (TPV/LS/MS/HS)	dB(A)	42/44/46/48	42/44/46/48	42/45/47/49
Sound power level (TPV/LS/MS/HS)	dB(A)	55/57/59/61	55/57/59/61	55/58/60/62
INSTALLATION				
Outline dimensions (WxHxD)	mm	1500x248x700	1333x497x750	
Package dimensions (WxHxD)	mm	1698x305x857	1558x668x896	
Net weight/Gross weight	kg	45.4/52.6	88/110	
Liquid pipe diameter	inches	3/8"	1/2"	
Suction pipe diameter	inches	5/8"	1"	
External static pressure	Pa	100/200	100/350	

See technical drawings p.76

Pictogram guide p.90

XVVA
Console

FLUID
R410A

RCV03
included

+ PRODUCT

- RCV03 remote control included (see page 62)
- DC Inverter centrifugal fan
- Compact unit
- Bidirectional airflow
- Dry contact available

Control system

RWV11
(optional)

RWV03 V2
(optional)

Technology

ELECTRONIC EXPANSION VALVE

User functions

I FEEL

SUPER QUIET

PROGRAMMABLE TIMER

AUTO RESTART MEMORY

Fonctions installateurs

DRY CONTACT ON/OFF

THE ⊕ «SUSTAINABLE DEVELOPMENT»

- Energy savings (mode locking, setpoint limits).

THE ⊕ «USER»

- New simple and elegant design.
- Super-quiet unit.
- Upward and downward blowing for greater comfort.
- Multiple applications can be connected using the dry contact: room card, presence detector.

THE ⊕ «INSTALLER»

- Very compact.
- Ideal solution for rooms with low ceilings.

THE ⊕ «TECHNOLOGY»

- Optimal regulation thanks to its electronic expansion valve.

TECHNICAL DATA

UNITÉ INTÉRIEURE		XVVA-050/035/025N-01M22			
Code		**7VF070001**			
Phase		*Single phase*			
RATED POWER					
Cooling mode	kBtu/h	9,50	12,30	15,30	17,00
	kW	**2,80**	**3,60**	**4,50**	**5,00**
Heating mode	kBtu/h	10,90	13,60	17,00	18,50
	kW	**3,20**	**4,00**	**5,00**	**5,50**
ELECTRICAL PARAMETERS					
Phase/Voltage/Frequency		1P/220-230V/50-60Hz			
PERFORMANCES					
Airflow (TPV/LS/MS/HS/TGV)	m³/h	270/310/390/460/540	270/350/420/500/580	270/390/460/540/620	
Sound pressure (TPV/LS/MS/HS/TGV)	dB(A)	30/33/38/42/45	30/36/40/44/47	30/38/42/45/48	
Sound power level (TPV/LS/MS/HS/TGV)	dB(A)	45/48/52/55/58	47/51/54/57/60	42/48/55/58/61	
INSTALLATION					
Outline dimensions (WxHxD)	mm	700x600x210			
Package dimensions (WxHxD)	mm	783x695x303			
Net weight/Gross weight	kg	15.2/18.7			
Liquid pipe diameter	inches	1/4"			
Suction pipe diameter	inches	1/2"			

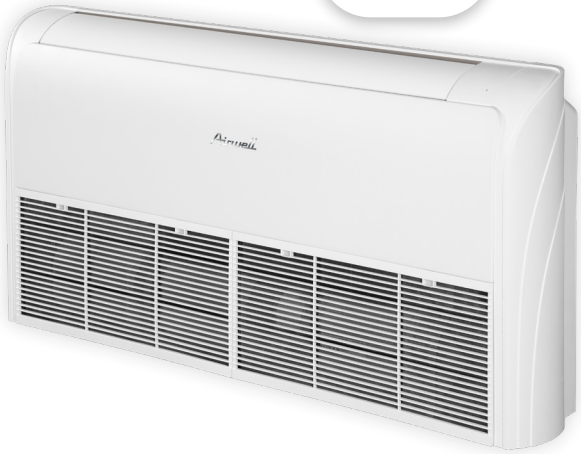
ⓘ Pictogram guide p.90

ⓘ See technical drawings p.77

FVVA

Floor-ceiling

FLUID
R410A



RCV03
included

+ PRODUIT

- RWV03 remote control included (see page 62)
- New DC Inverter fan motor
- New aesthetic and modern design
- New deflectors for better air distribution
- High airflow rate
- Improved component accessibility
- Dry contact available

THE ⊕ « SUSTAINABLE DEVELOPMENT »

- Energy savings (mode locking, setpoint limits).

THE ⊕ « USER »

- Air blowing distance up to 11m.
- Horizontal and vertical airflow swing.
- Multiple applications can be connected using the dry contact: room card, presence detector.

THE ⊕ « INSTALLER »

- Horizontal or vertical installation.

THE ⊕ « TECHNOLOGY »

- Optimal regulation thanks to its electronic expansion valve.
- New centrifugal fan, acoustic reduction.

Control system

RWV11
(optional)

RWV03 V2
(optional)

Technology

ELECTRONIC EXPANSION VALVE

User functions

I FEEL

PROGRAMMABLE TIMER

AUTO RESTART MEMORY

Installer functions

DRY CONTACT ON/OFF

TECHNICAL DATA

INDOOR UNIT		EX-FACTORY FVVA-025N-01M22	FVVA-050/045/035N-01M22			FVVA-090/080/070N-01M22			FVVA-140/110N-01M22	
Code		**7VF01 0001**	**7VF010002**			**7VF010003**			**7VF010004**	
Phase		*Single phase*								
RATED POWER										
Cooling mode	kBtu/h	9,50	12,28	15,35	19,11	24,23	27,30	30,71	38,21	48,00
	kW	**2,80**	**3,60**	**4,50**	**5,60**	**7,10**	**8,00**	**9,00**	**11,20**	**14,00**
Heating mode	kBtu/h	10,92	13,65	17,06	21,50	27,30	30,71	34,12	42,60	55,00
	kW	**3,20**	**4,00**	**5,00**	**6,30**	**8,00**	**9,00**	**10,00**	**12,50**	**16,00**
ELECTRICAL PARAMETERS										
Phase/Voltage/ Frequency		1P/220-230V/50-60Hz								
PERFORMANCES										
Airflow (LS/MS/HS)	m³/h	690/ 750/ 820	690/ 750/ 820	690/820/950		1240/ 1270/ 1420	1240/1420/1570		1750/1990/2110	
Sound pressure (LS/MS/HS)	dB(A)	34/36/ 38	34/36/ 38	35/38/42		41/44/ 46	41/44/47		43/46/50	
Sound power level (LS/MS/HS)	dB(A)	47/50/ 52	47/50/ 52	48/51/55		54/58/ 60	54/58/61		57/60/63	
INSTALLATION										
Outline dimensions (WxHxD)	mm	1000 x680 x230	1000x680x230			1325x680x230			1650x680x230	
Package dimensions (WxHxD)	mm	1100 x779 x305	1100x779x305			1425x779x305			1750x779x305	
Net weight/Gross weigh	kg	27,9/ 33,6	27,9/33,6			35,8/42,1			43,5/50,5	
Liquid pipe diameter	inches	1/4"				3/8"				
Suction pipe diameter	inches	3/8"	1/2"			5/8"				

ⓘ See technical drawings p.78

ⓘ Pictogram guide p.90

+ PRODUCT

- Integrated touchscreen
- Water temperature from 5°C to 50°C
- Possible applications with radiator, underfloor heating or fan coils
- Ideal for new construction or renovation; allows you to partially retain an existing hydraulic system
- Domestic hot water production possible

OVVA

Hydro Box

FLUID
R410A

Control system

RWV09
(optional)

Technology

ELECTRONIC EXPANSION VALVE

User functions

PROGRAMMABLE TIMER

AUTO RESTART MEMORY

User functions

DRY CONTACT ON/OFF

Heating

UNDERFLOOR HEATING / COOLING

RADIATOR HIGH TEMRETATURE

BOILER REPLACEMENT

THE ⊕ « SUSTAINABLE DEVELOPMENT »

- Installed with VRF indoor units, efficiently heats water for domestic hot water (DHW) or space heating without any other energy source.
- The Hydrobox improves overall energy efficiency. It reuses waste heat, making the entire system more environmentally friendly and cost-effective.

THE ⊕ « INSTALLER »

- Very compact.
- Easy to install.
- Pump and expansion tank included for OVVA-090/160.

THE ⊕ « USER »

- Allows the DRV system to provide both cooling (through air conditioning units) and heating (through hot water supply).
- Includes advanced temperature controls to ensure a constant and reliable supply of hot water at the desired temperature.
- **Applications :**
  Residential buildings and hotels: provides a combined solution for air conditioning and hot water and ensures a regular supply.

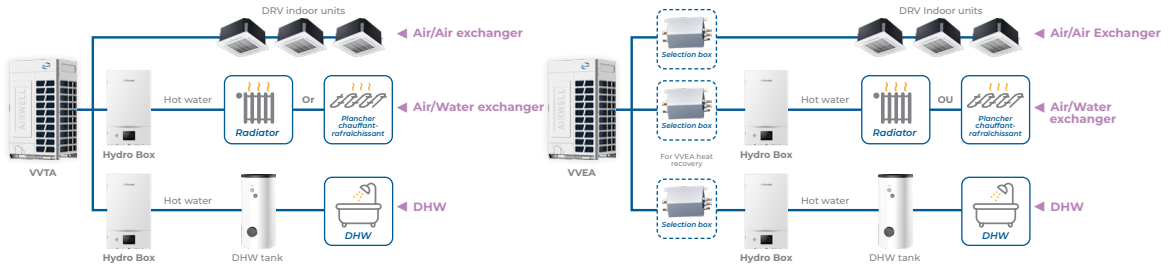
- ***Optimized interface***
- ***Tactile et intuitive***
- ***Built-in thermostat***
- ***Weekly programming***
- ***Multi-zone control system***

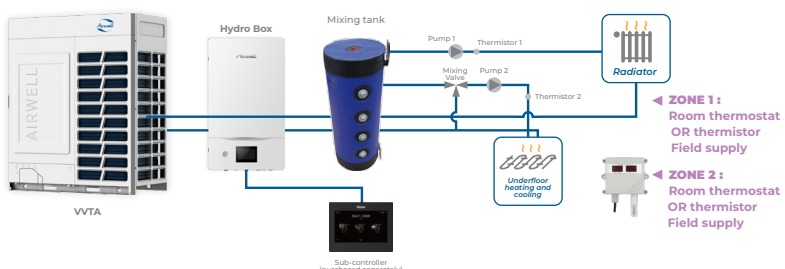
See technical drawings p.79

TECHNICAL DATA

MODÈLE			OVVA-090N-01M25	OVVA-160N-01M25	OVVA-310N-01M25
Code			**7VF130001**	**7VF130002**	**7VF130003**
Phase				*Single phase*	
Rated power	Cold	kW	7	14	28
	Hot	kW	9	16	31
Electrical parameters	Phase/Voltage/ Frequency			1P/220-240V/50Hz	
PERFORMANCE					
Sound pressure	Cold	dB(A)		29	
	Hot	dB(A)		32	
Sound power level	Cold	dB(A)		43	
	Hot	dB(A)		46	
INSTALLATION					
Outline dimensions (WxHxD)		mm	480x850x310	480x850x310	480x850x310
Package dimensions (WxHxD)		mm	580x1020x460	580x1020x460	580x1020x460
Net weight/Gross weight		kg	44/56	44/56	40/52
Expansion tank included		L	5	5	non
Water circuit tube diameter	Inlet	inches	1"	1"	1-1/4"
	Outlet	inches	1"	1"	1-1/4"
Pump included in module			oui	oui	oui
Lift pump		m	11	11	11
Refrigerant/GWP				**R410A/2088**	
Liquid pipe diameter		inches	3/8"	3/8"	3/8"
Suction pipe diameter		inches	5/8"	5/8"	5/8"
OPERATING LIMITS					
Outdoor temperature range for operation	Summer	°C		10/43	
	Winter	°C		-20/24	
Kit outlet temperature range	Cold water	°C		5-20	
	Hot water	°C		20-50	
OTHER FEATURES					
Compatible with	DRV		✓	✓	✓
Solution for	Low temperature radiator, heated floor		✓	✓	✓
	Domestic hot water		✓	✓	✓
	Fan coils		✓	✓	✓
Flow rate / Standard flow rate		L/min.	18/26	32/46	63/90

EXAMPLES OF INSTALLATIONS





+ PRODUCT

- Allows the combination of air handling units (AHUs) with the VRF system.
- Compatible with VVFA and VVTA systems (from 4 to 104 HP).
- Five sizes available from 3.5 to 73 kW (1-26 HP).
- The kit includes the regulation part and the EEV part (the regulation part can be remote up to 5 m).
- Possibility of regulation by 0-10V signal from the DDC controller (supplied by the installer).
- Connect up to 4 AHU kits per DRV system for higher battery capacity or to power 4 different AHUs.
- Status outputs available for defrost, alarm, mode, On/Off and compressor status.
- Air handling unit fan control possible from the kit (On/Off and 3 speeds) via 230V outputs to be relayed.

AHU CONNECTION KIT

Airwell offers a range of connection kits, to connect VRF outdoor units to an air handling units, alone or with indoor units.

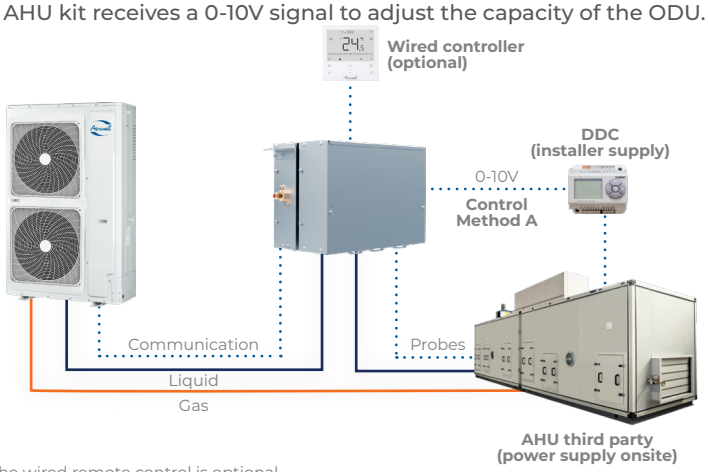
SYSTEM APPLICATION

- Offer a solution for large spaces by combining the advantages of VRF with those of central air handling units.
- **Meet the standards of European law:** The minimum fresh air renewal is 25 m³/h of air per person. So this means that every office, every store and the majority of commercial buildings must be equipped with an AHU to meet the standard. With our AHU kit solution you will meet this requirement and at the same time guarantee a high energy efficiency for heating and cooling production.

4 CONTROL MODES AVAILABLE

CONTROL MODE A

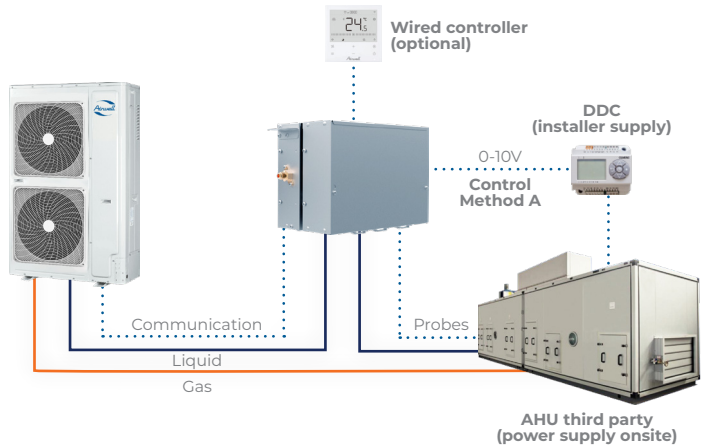
- DDC 0-10V signal output.
- The AHU kit receives a 0-10V signal to adjust the capacity of the ODU.



Note: The wired remote control is optional.
If the DDC can provide the 0-10V signal, on/off, mode and fan speed via dry contacts to the AHU kit, it is not necessary to connect the wired remote control. Otherwise, the wired remote control is required.

CONTROL MODE B

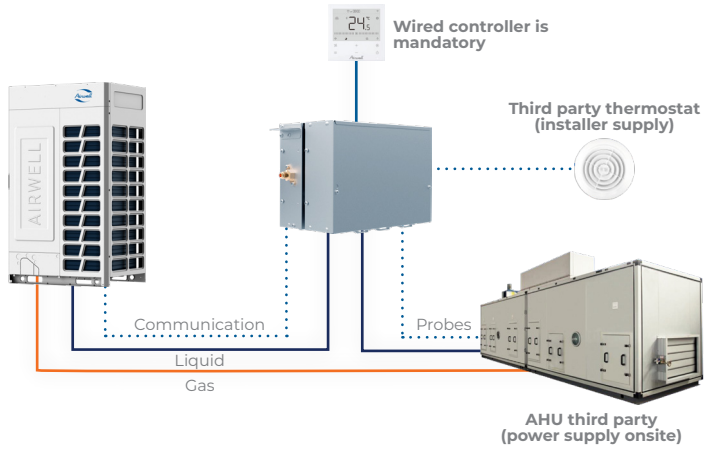
- DDC 0-10V signal output.
- The AHU kit receives a 0-10V signal to adjust the setpoint temperature.



Note: The wired remote control is optional.
If the DDC can provide the 0-10V signal, on/off, mode and fan speed via dry contacts to the AHU kit, it is not necessary to connect the wired remote control. Otherwise, the wired remote control is required.

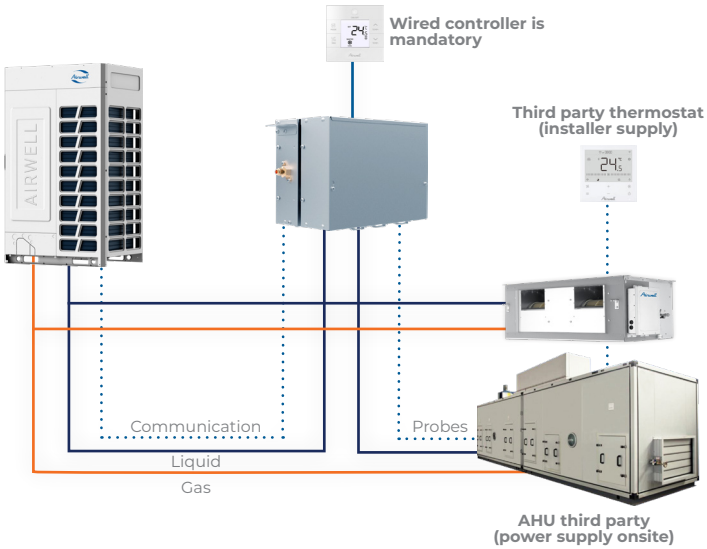
CONTROL MODE C (special application)

- Without DDC.
- The wired controller is necessary for the selection of the mode and the speed of ventilation but not necessary for the regulation.
- The third-party thermostat provides the On/Off signal to the AHU kit when the set temperature is reached.
- Applicable for some cases with constant cooling or heating demand and low comfort requirements.



CONTROL MODE D

- Control CTA the same way as a DRV indoor unit with the wired remote control.
- Temperature control on the return probe or remote control.
- Wired controller is required.
- Control method for combination of DRV indoor units and AHU system.



AHU KITS

MODEL	DÉSIGNATION	CODE
AHU Kit 7	• *Kit CTA <7 kW*	**7ACELH033**
AHU Kit 14	• *Kit CTA 7 kW à 14 kW*	**7ACELH034**
AHU Kit 28	• *Kit CTA 14 kW à 28 kW*	**7ACELH035**
AHU Kit 56	• *Kit CTA 28 kW à 56 kW*	**7ACELH036**
AHU Kit 73	• *Kit CTA 56 kW à 73 kW*	**7ACELH037**


OFF 08:00
24.5
°C

CONTROL SYSTEMS

MODEL

Control your system

DRV WHEREVR YOU ARE

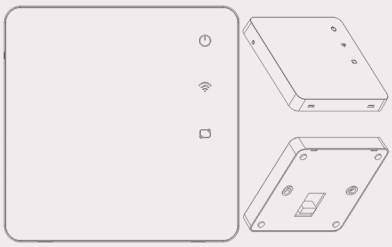
The DRV system can be remotely controlled by the smart WiFi module and operated by the AirConnect Smart app.

1. Control your Airwell DRV air conditioning system wherever you are, up to 4 DRV systems and 64 indoor units.
2. Pair all your indoor units at once using Airwell WiFi Bus Control technology.
3. Multi-site management: quick and easy to use to manage multiple sites equipped with Airwell DRV from your smartphone.
4. Create your own control for greater comfort, maximum efficiency and energy savings thanks to the automation and scenario platform.
5. Add a multitude of connected objects..

UPLOAD THE APPLICATION

SMART WIFI MODEL:

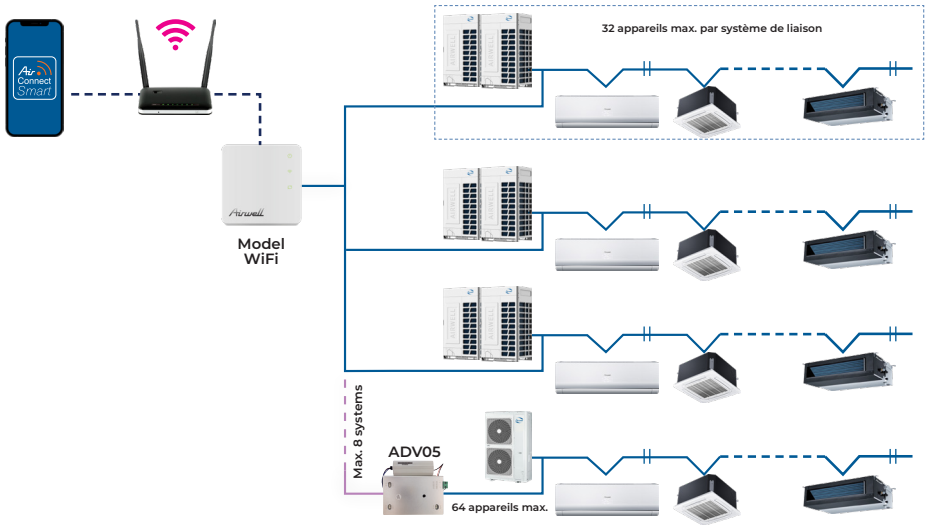
- Code : 7ACEL1869



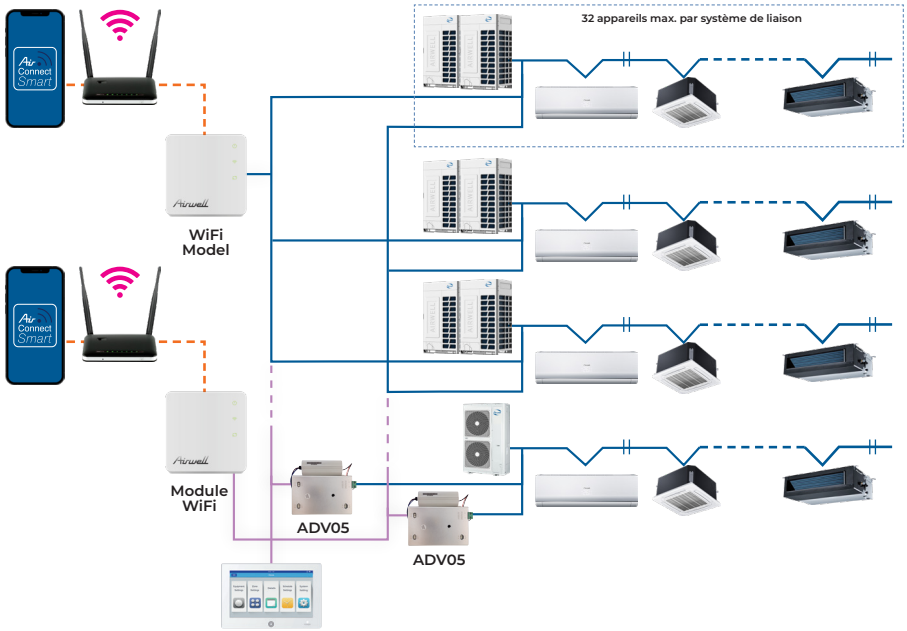
- **Modul dimension :** 86x86x12 mm
- **Compatible models :** VVFA, VVTA, VVEA

INSTALLATION METHOD

Thanks to Airwell WiFi Bus Control, a single pairing is all it takes to connect all your indoor units.



The Airwell DRV can be combined with both the central controller (RWV06, RWV09) and the AirConnect Smart WiFi module.



Function table

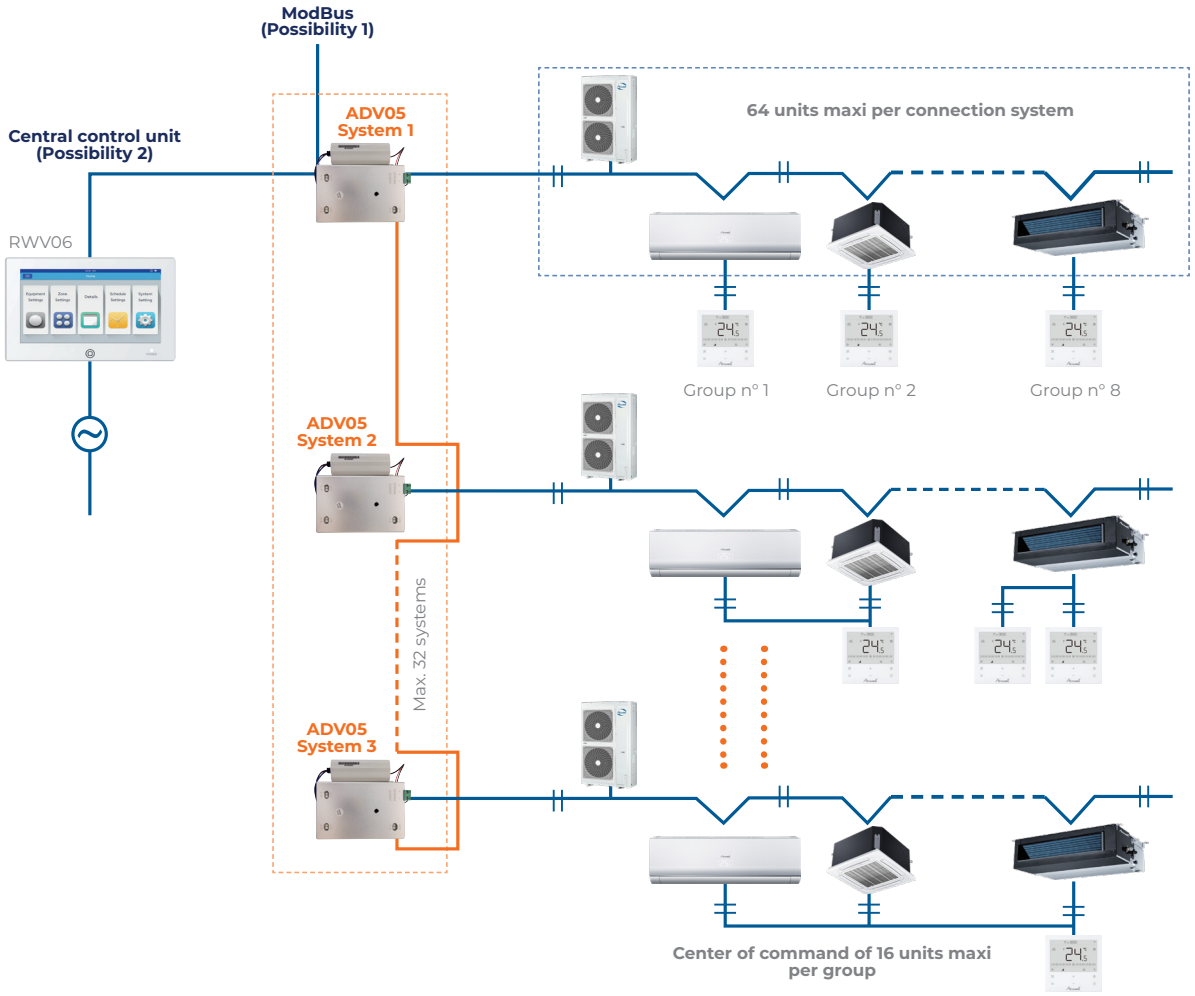
MODEL	WIRED REMOTE CONTROL				
REFERENCE	RWV03 V2	RWV06	RWV09	RWV10	RWV11
Code	7ACELH045	7ACELH023	7ACELH038	7ACEL1911	7ACELH1917
Photo					
USER FUNCTIONS					
On/Off timer	✓	✓	✓	✓	✓
Weekly timer		✓	✓		
Silent mode/low speed fan	✓	✓	✓	✓	✓
“I Feel” function				✓	✓
Clean-up function	✓			✓	✓
Night mode (economy mode)				✓	✓
Remote locking		✓	✓	✓	✓
Low battery	✓	✓	✓	✓	✓
Wi-Fi compatibility			✓		
INSTALLER FUNCTIONS					
Group control	✓	✓	✓	✓	✓
Centralized control		✓	✓		
Heating mode only		✓	✓	✓	✓
Operating fault display	✓	✓	✓	✓	✓

ADV05

Central control solutions

Only one gateway :

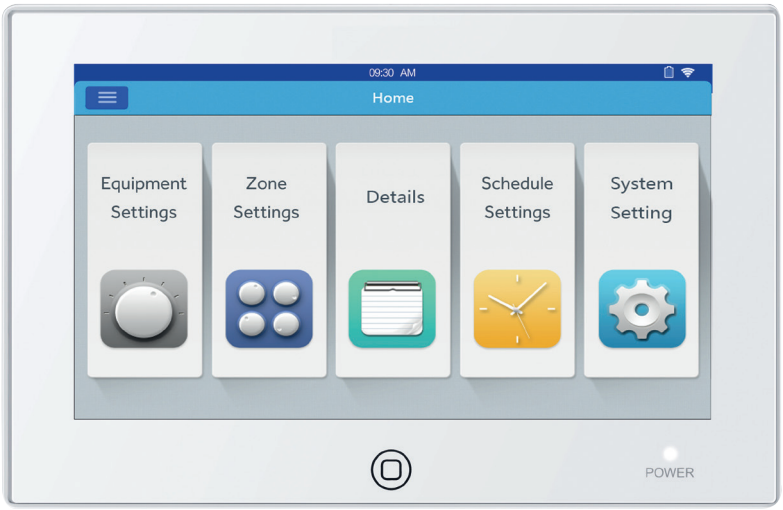
CENTRAL CONTROL OR MODBUS



REMINDER

- **The gateway is no longer necessary on VVTA and VVEA regardless of the number of systems connected to the central remote control.**
- **The gateway is no longer necessary on the VVFA 8/10/12CV if only one group is connected to the central unit.**
- **The gateway is necessary on the VVFA 8/10/12CV when more than one group (VVFA-VVTA-VVEA) is connected to the central unit.**
- **The gateway is necessary on the VVFA 4 and 6CV in all cases.**

TOUCH SCREEN CENTRAL REMOTE CONTROL RWV06
(up to 256 indoor units)



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

- Full access central controller.
- 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.

The main functions are:

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

CODE: 7ACELH023

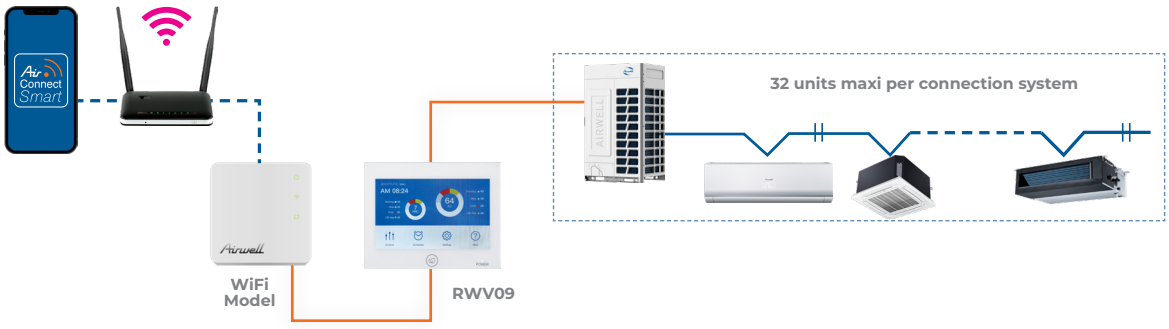
CONTROL UNIT RWV09 (up to 64 indoor units)

This command allows you to check the status of the indoor units and control them remotely!

- Natively compatible with the AirConnect Smart module.
- Clean and modern design.
- 5 inches TFT LCD touchscreen with backlight.
- Control up to 64 indoor units per system and per control unit.
- The controller can be connected directly to VVTA and VVEA systems.
- Possibility to connect up to 32 systems. Eco, Cool only / Heat only can be configured according to actual needs.

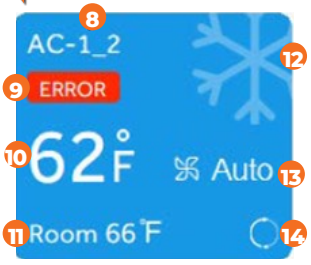
Main features:

- Reading and operating parameters.
- History and display of error codes.
- Weekly programming.
- Modbus RTU signal output: can be combined with a Wi-Fi module or a third-party device.



Main interface

Control of internal parameters



Display of the indoor units parameters

1	Current number of indoor units. By default, all existing indoor units are displayed, you can drag them up or down to view them. You can click on the second icon below to select the indoor units you want to view.
2	**Time.** You can set the time through "HOME-SETTING-TIME"
3	Click to return to the home page.
4	Click to select the indoor units you want to view.
5	Icon display interface.
6	List display interface.
7	Click to display the checklist.
8	AC-1_2: represents the gateway addressed as NO.1, and its central address is NO.2.
9	If there is an error in progress, the icon is displayed.
10	Set temperature.
11	Current room temperature.
12	The current mode is "COOLING".
13	Current fan speed is «AUTO».
14	Current control mode is «LAST IN FIRST OUT». (last in, first out).

CODE: 7ACELH038

SUPPLIED AS STANDARD WITH

→ HVVA, XVVA et FVVA

RCV03

Infrared remote control

Réf.: 7ACELH045

BASIC FUNCTIONS

- On/Off.
- Mode (Auto, Cool, Heat, Dehumidification, Fan).
- Set temperature adjustment.
- Fan speed selection.
- Silent.
- Turbo.
- Health.
- Night mode.
- Timer.
- Airflow (Horizontal swing, Vertical swing).
- Electric heating.

DISPLAY

- Self-cleaning.
- Fresh air.
- Health Airflow.
- IFP.
- Individual shutter control for CFV cassettes.
- Frost protection mode.
- C°/F°.

FUNCTION

- Locking.
- Turn the display on/off.
- Backlight.

RWV03 V2

Wire controller

OPTIONAL WITH THE ENTIRE RANGE

BASIC FUNTIONS

- On/Off.
- Set temperature adjustment.
- Fan speed selection.
- Operating mode selection.
- Airflow adjustment.

DISPLAY

- Clock.
- Temperature display.
- Humidity level display.

FUNCTION

- Individual control: one control per indoor unit.
- Group control: one command to control up to 16 indoor units.
- On/off timer.
- Individual shutter adjustment (for cassette units with 360° rounded corners).
- Infrared signal receiver: allows the joint use of an infrared control for ducted units.

INSTALLER

- Error code display.
- Static pressure adjustment for ducted units.

Réf.: 7ACELH032

OPTIONAL WITH THE ENTIRE RANGE

RWV10

Black wire controller

Réf. : 7ACEL1911

FEATURES

- Contemporary and elegant design
- Automatic lighting activates as soon as the keys are pressed and deactivates when not in use.

BASIC FUNCTIONS

- On/Off.
- Set temperature adjustment (Temperature range 23 to 30°C in cooling/ dehumidification mode and 16 to 26°C in heating mode).
- Fan speed selection (3 speeds).
- Operating mode selection (heating, cooling, dehumidification, ventilation, auto).
- Silent mode (sound deactivation when touching keys).
- Key lock.

DISPLAY

- Display of set/ambient temperature.
- Mode display (heating, cooling, dehumidification, ventilation, auto).
- Fan speed selection display.

FUNCTIONALITY

- Group control: one command to control up to 16 indoor units.
- Error code display.

RWV11

Wire controller

BASIC FUNCTIONS

- On/off, set temperature adjustment, fan speed selection, operating mode selection and airflow adjustment.

DISPLAY

- Temperature display.
- Backlighting.
- Touch screen.
- °F/°C.

INSTALLER

- Error code display.
- Setting external static pressure (ESP) speeds for duct units.

SUPPLIED AS STANDARD WITH

→ CVQA, CVTA, CVPA, DVLA, DVMA, DVHA et DVFA

Réf.: 7ACELH1917

TECHNICAL DATA

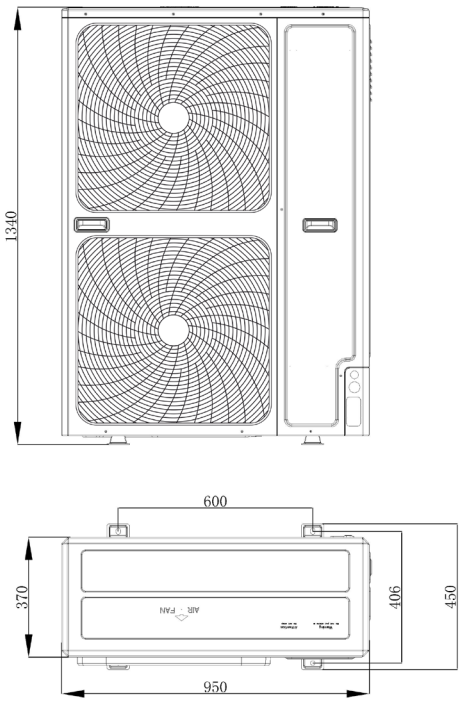
CONTROLLER		RWV11
Code		**7ACEL1917**
Outline dimensions (WxHxD)	mm	86x86x12,8
Package dimensions (WxHxD)	mm	145x142x45
Net weight/Gross weight	kg	0,0944/0,294

FEATURES

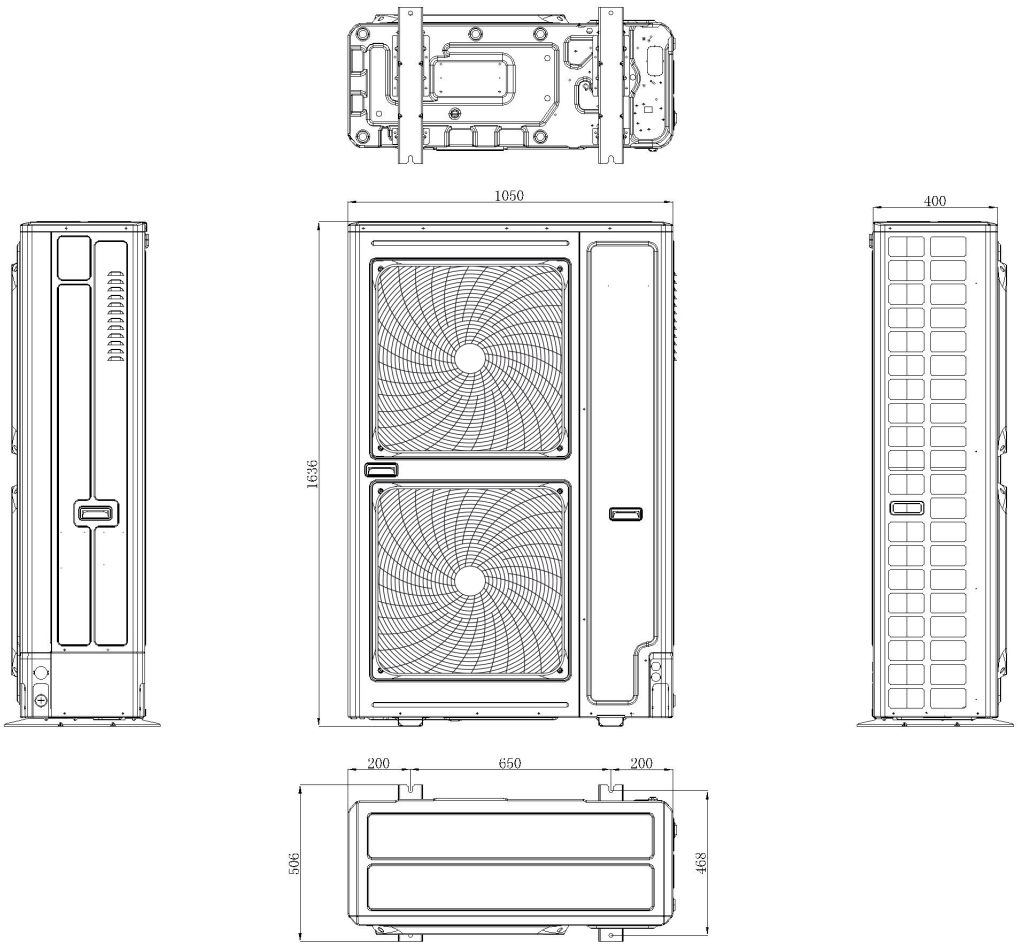
- Individual control: one controller per indoor unit.
- Group control: max. 16 indoor units in one group.
- On/Off Timer.
- Individual shutter adjustment (for cassettes).
- Built-in buzzer.
- Infrared signal receiver, which allows conduit units equipped with this wired controller to directly use the infrared controller.
- Self-cleaning function (only for units supporting the self-cleaning function).

VVFA - 2 PIPES - FRONT DISCHARGE

VVFA 125R/150R

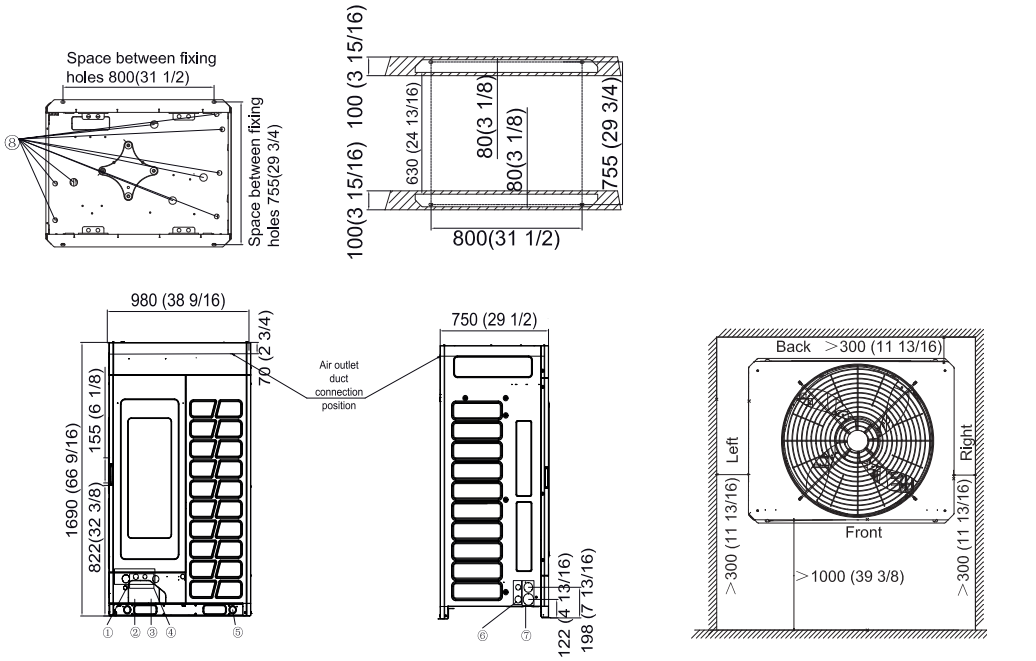


VVFA 220R/335R

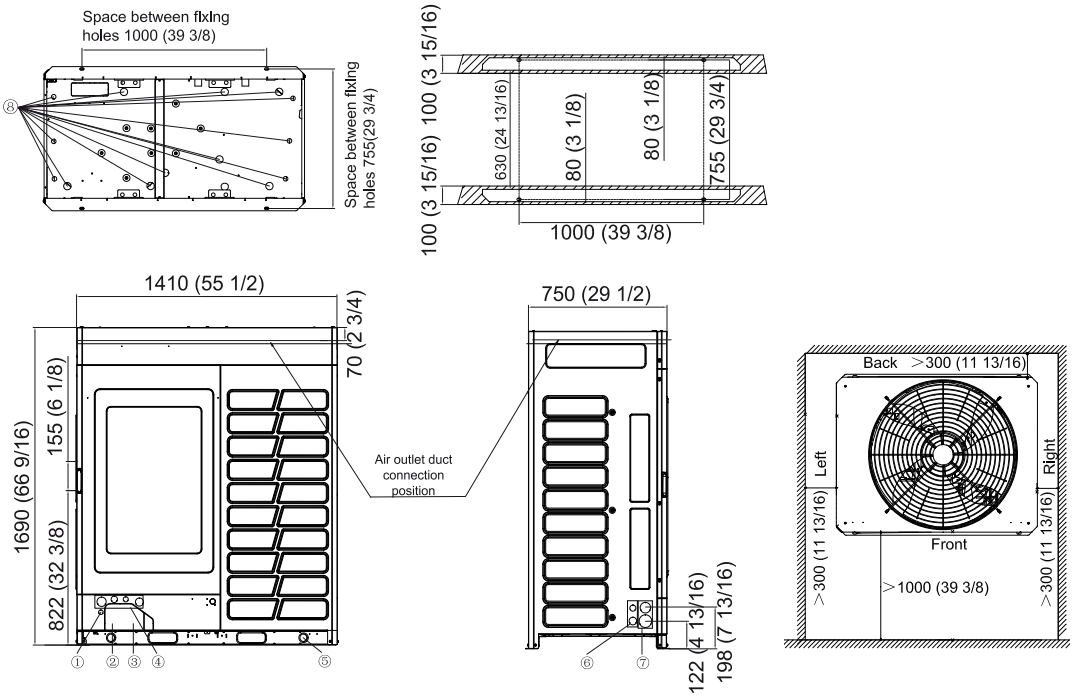


VVTA - 2 PIPES - TOP DISCHARGE

VVTA 250R/450R



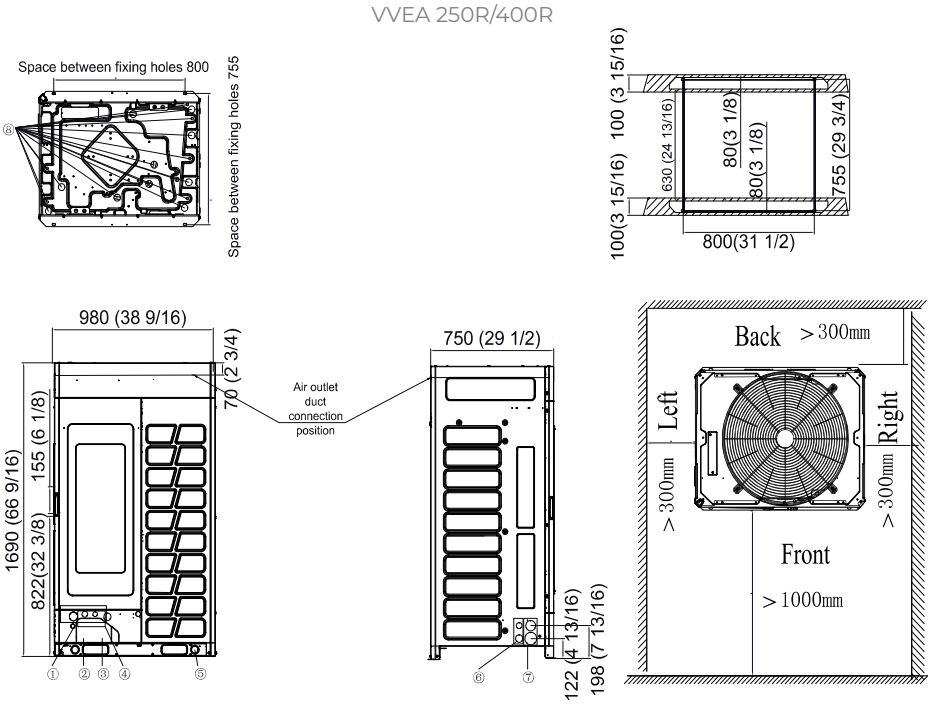
VVTA 504R/735R



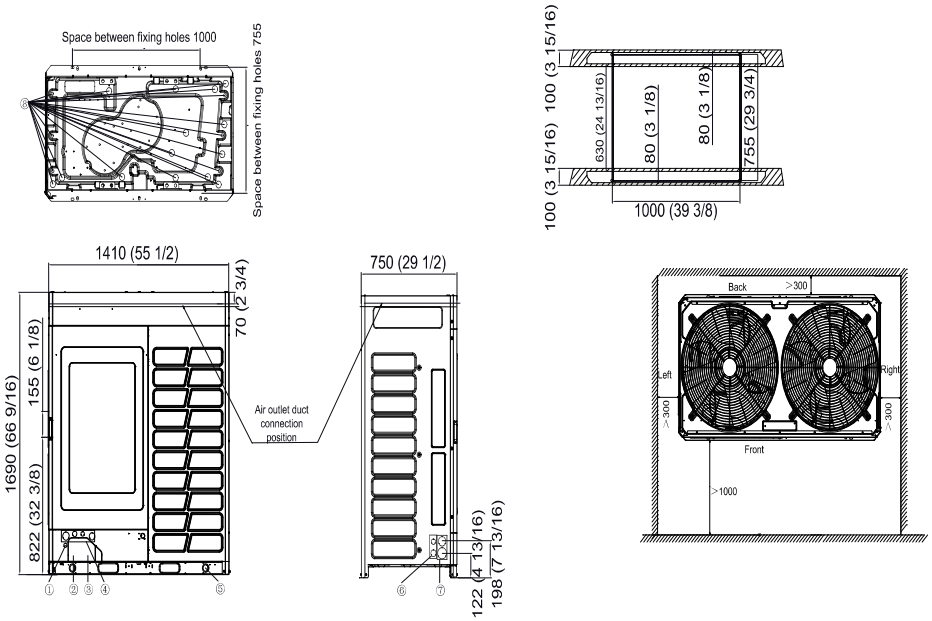
N°	DESCRIPTION	NOTE
1	Signal line hole Ø25 mm	• *Using the rubber plug in the unit's attachment for protection*
2	Pipe outlet for 2-pipe system	
3	Pipe outlet for 3-pipe system	
4	Power supply hole	• *According to the wire diameter size to choose the appropriate line hole, and using the line sheath in the unit's attachment for protection*
5	Hoisting hole	
6	Power supply of signal line hol	
7	Refrigerant pipe outle	
8	Drain hole	

VVEA - 3 PIPES - TOP DISCHARGE

VVEA 250R/400R



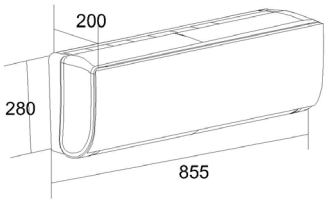
VVEA 450R/615R

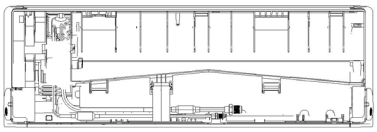


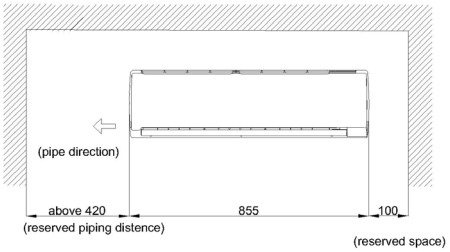
N°	DESCRIPTION	NOTE
1	Signal line hole Ø25 mm	• *Using the rubber plug in the unit's attachment for protection*
2	Pipe outlet for 2-pipe system	
3	Pipe outlet for 3-pipe system	
4	Power supply hole	• *According to the wire diameter size to choose the appropriate line hole, and using the line sheath in the unit's attachment for protection*
5	Hoisting hole	
6	Power supply of signal line hole	
7	Refrigerant pipe outlet	
8	Drain hole	

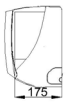
HVVA - HIGH WALL

HVVA 022N-035N

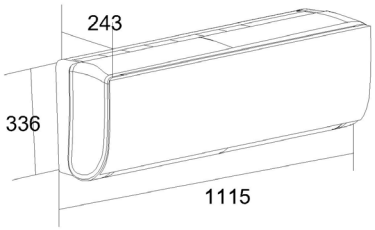


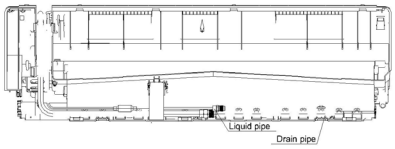


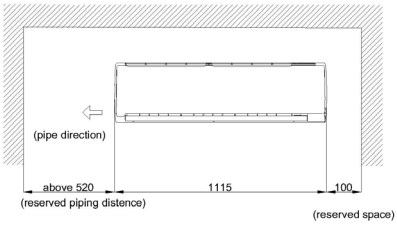


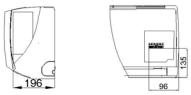


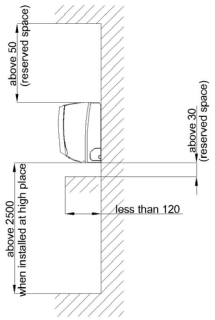
HVVA 045N-070N



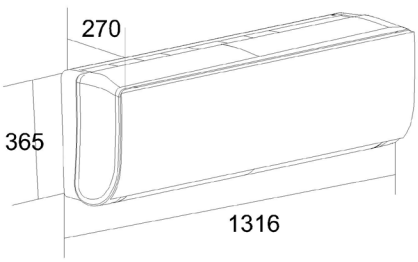


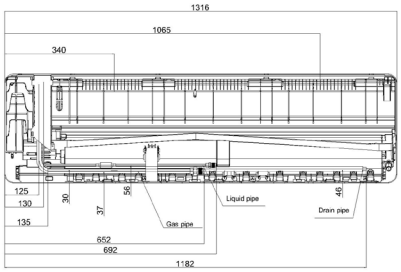


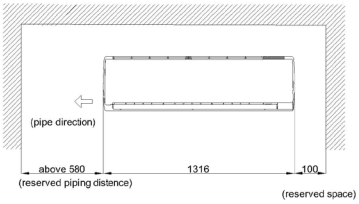


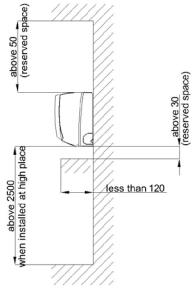


HVVA 090N

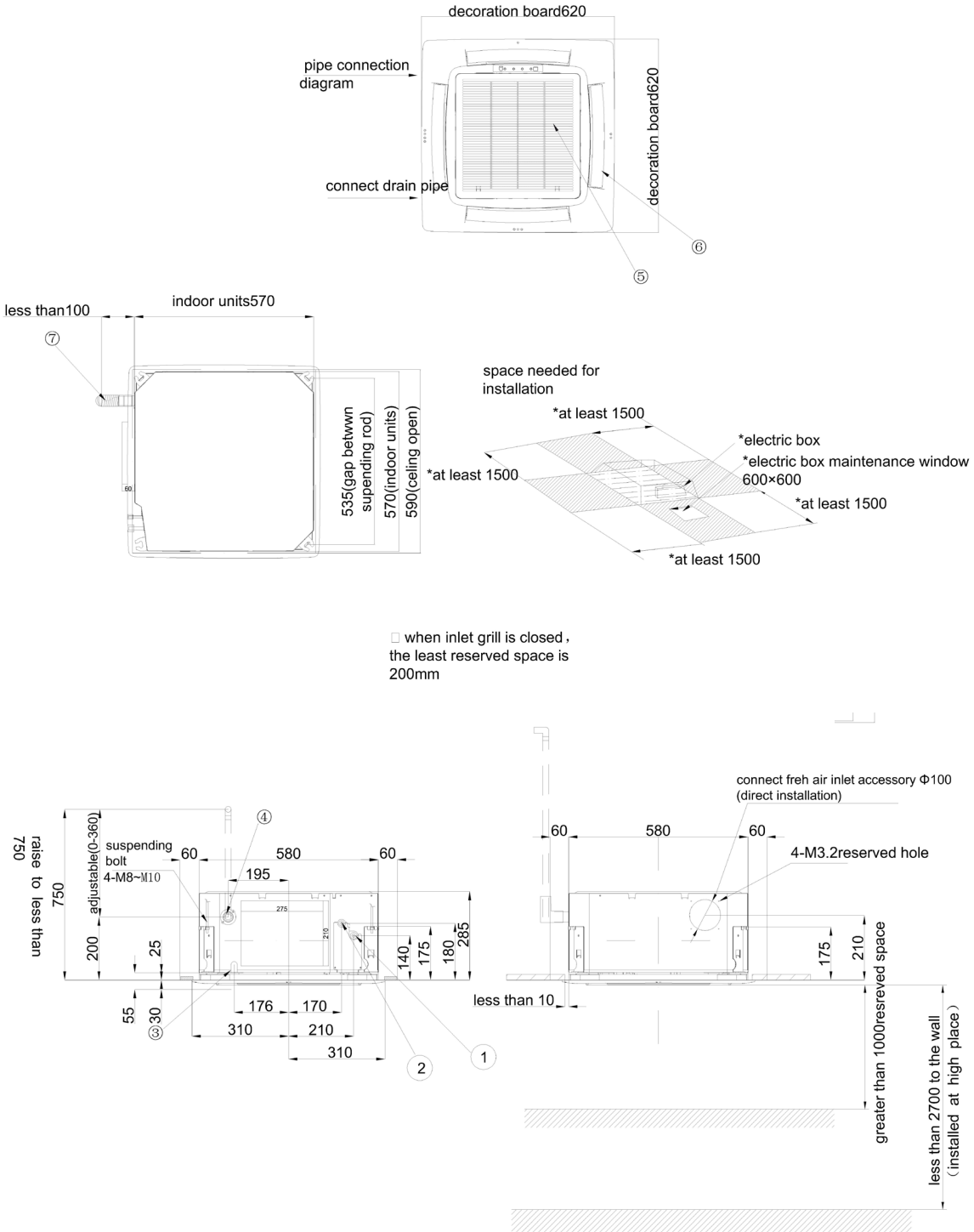






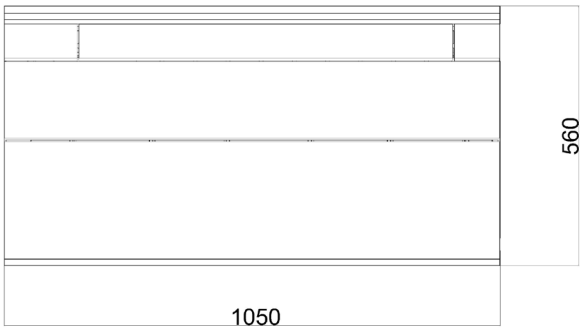


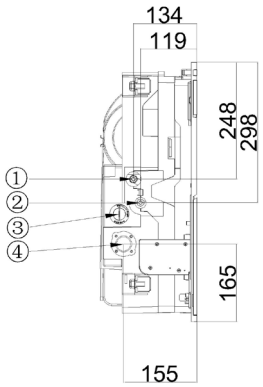
CVQA - CASSETTE 600X600

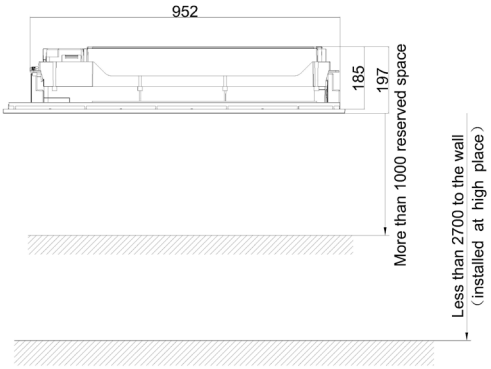


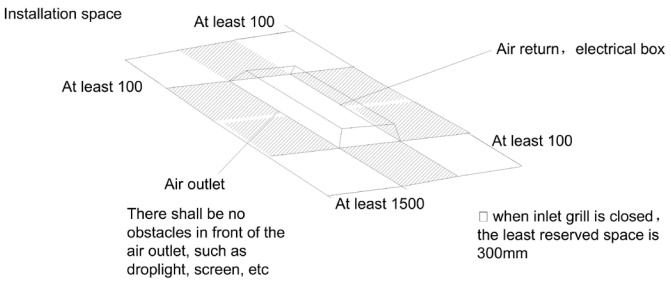
N°	DESCRIPTION
1	Connection port of gas pipe
2	Connection of liquid pipe
3	Wiring connection port of motor/ pumping motor
4	Connect drain pipe
5	Inlet grill
6	Outlet grill
7	Drain hose (accessory)

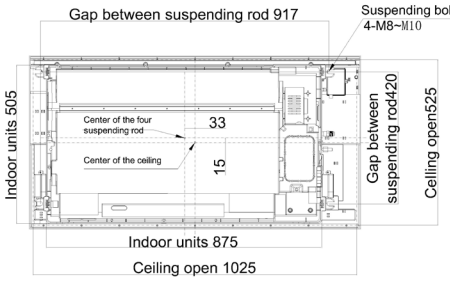
CVPA - 1-WAY CASSETTE







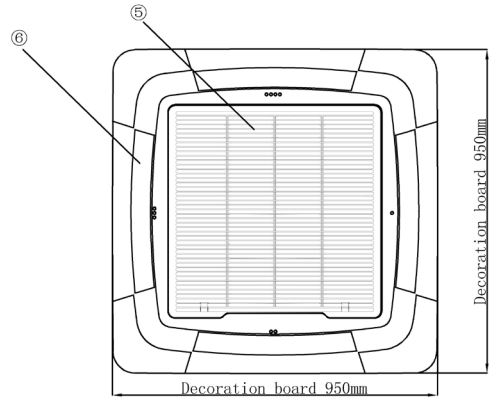


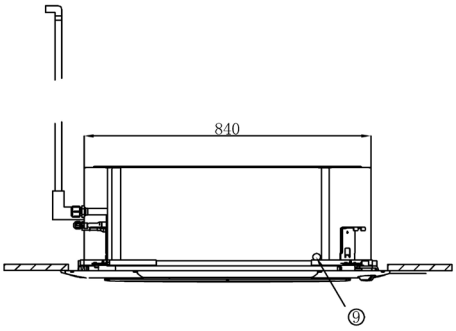


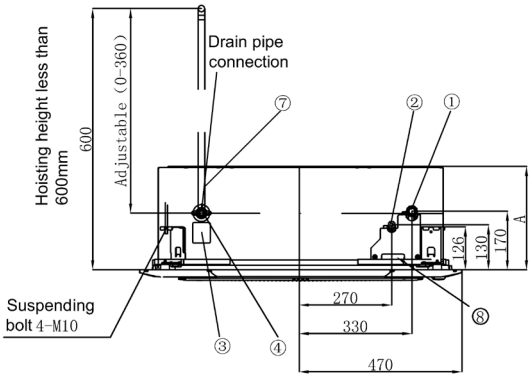
N°	DESCRIPTION
1	Gas pipe
2	Liquid pipe
3	Water filling hole
4	Drain pipe
5	Inlet grill
6	Outlet grill
7	Drain hose (accessory)

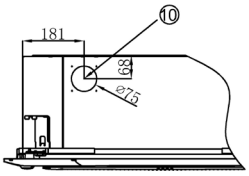
CVTA - 360° CASSETTE

N°	DESCRIPTION
1	Gas pipe
2	Liquid pipe
3	Observe plate
4	Drain pipe
5	Air return grill
6	Air outlet
7	Drain soft pipe (accessory)
8	Power supply inlet
9	PQ line inlet
10	Fresh air inlet

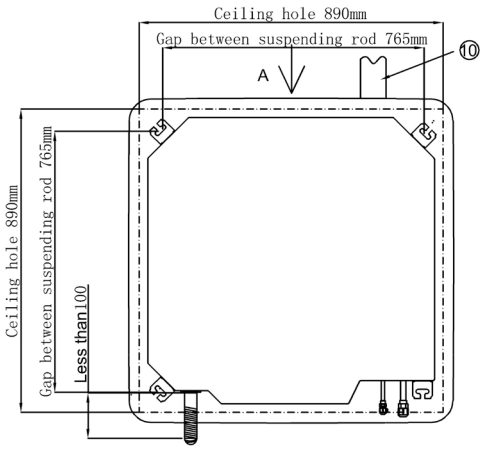




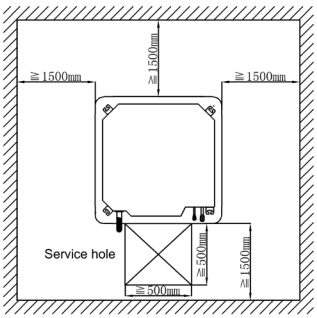


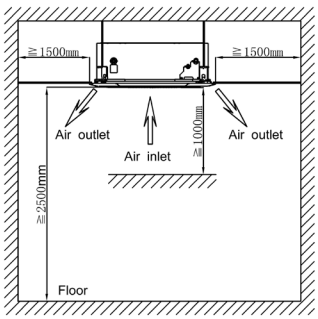


View A



Installation space



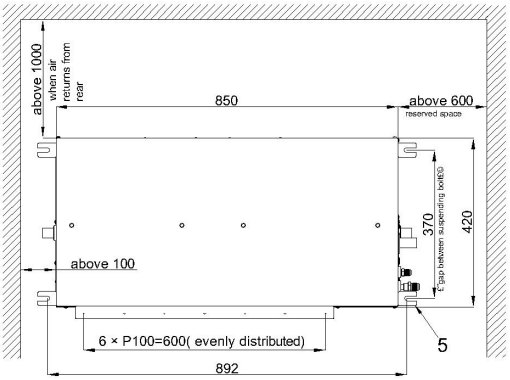


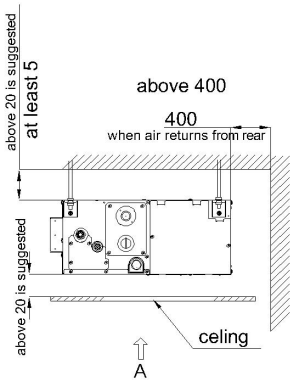
※When the air outlet grille blocked, the min. reserved space is 200mm.

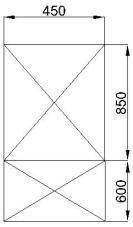
DIMENSIONS (mm)

MODEL	A
022/025/035/045/060	183
070	204

DVLA - LOW-PRESSURE DUCTED

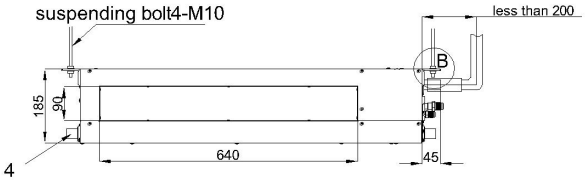


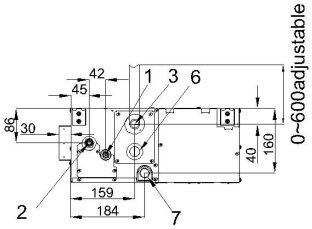


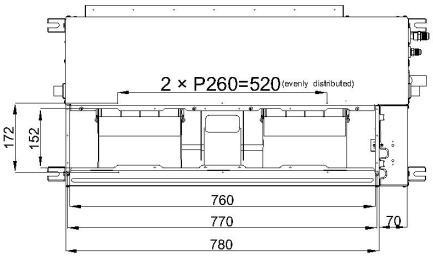


see from A side

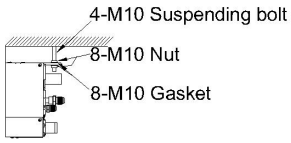
checking hole(hole in celing)



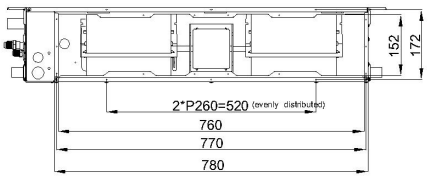




when air returns from the bottom



Zoom in section B

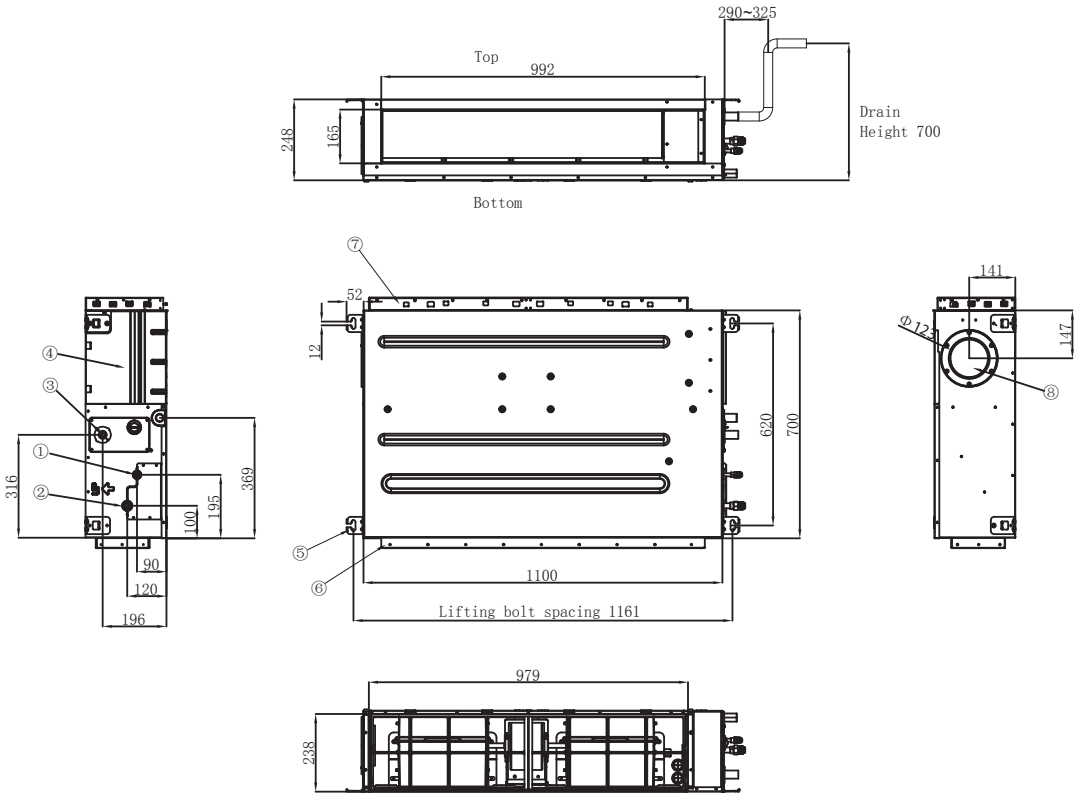


when air returns from rear

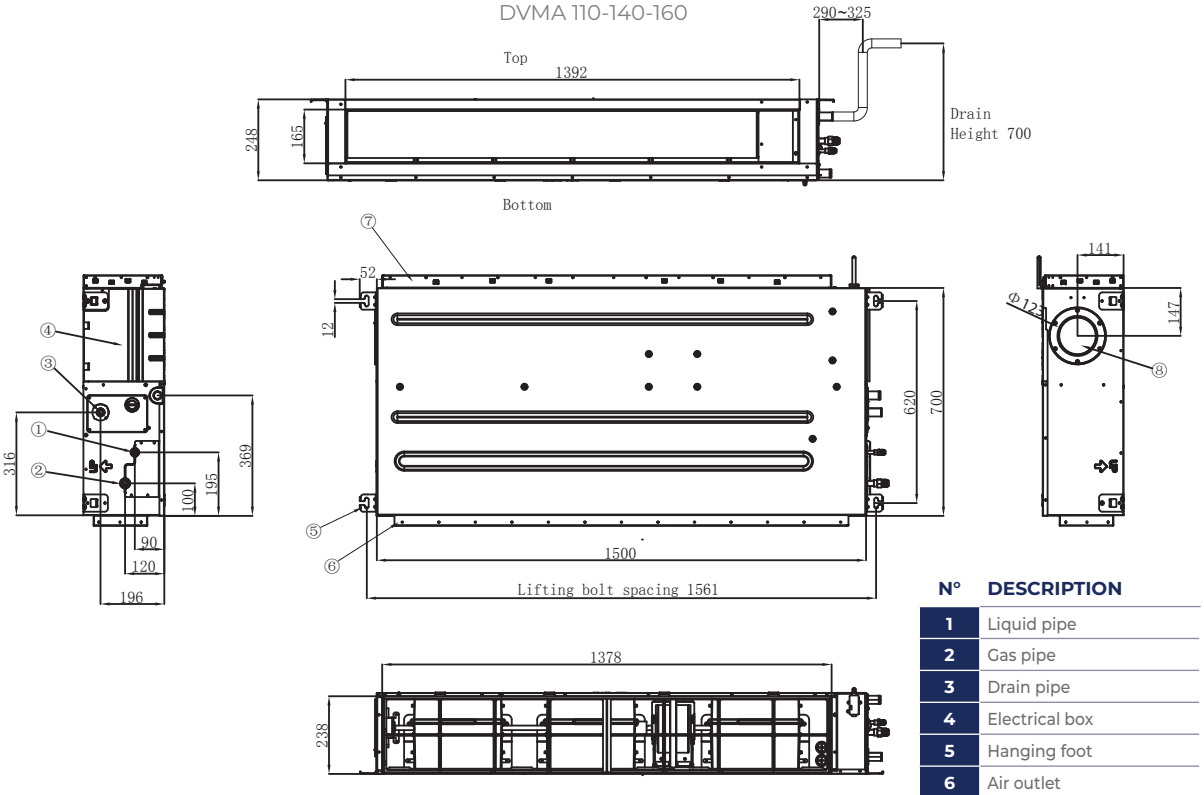
N°	DESCRIPTION
1	Liquid pipe connection
2	Gas pipe connection
3	Drain hose with pump
4	Drain hose (accessory)
5	Suspending point
6	Checking hole
7	Water drainge outlet

DVMA - MEDIUM-PRESSURE DUCTED

DVMA 050/070/080-090

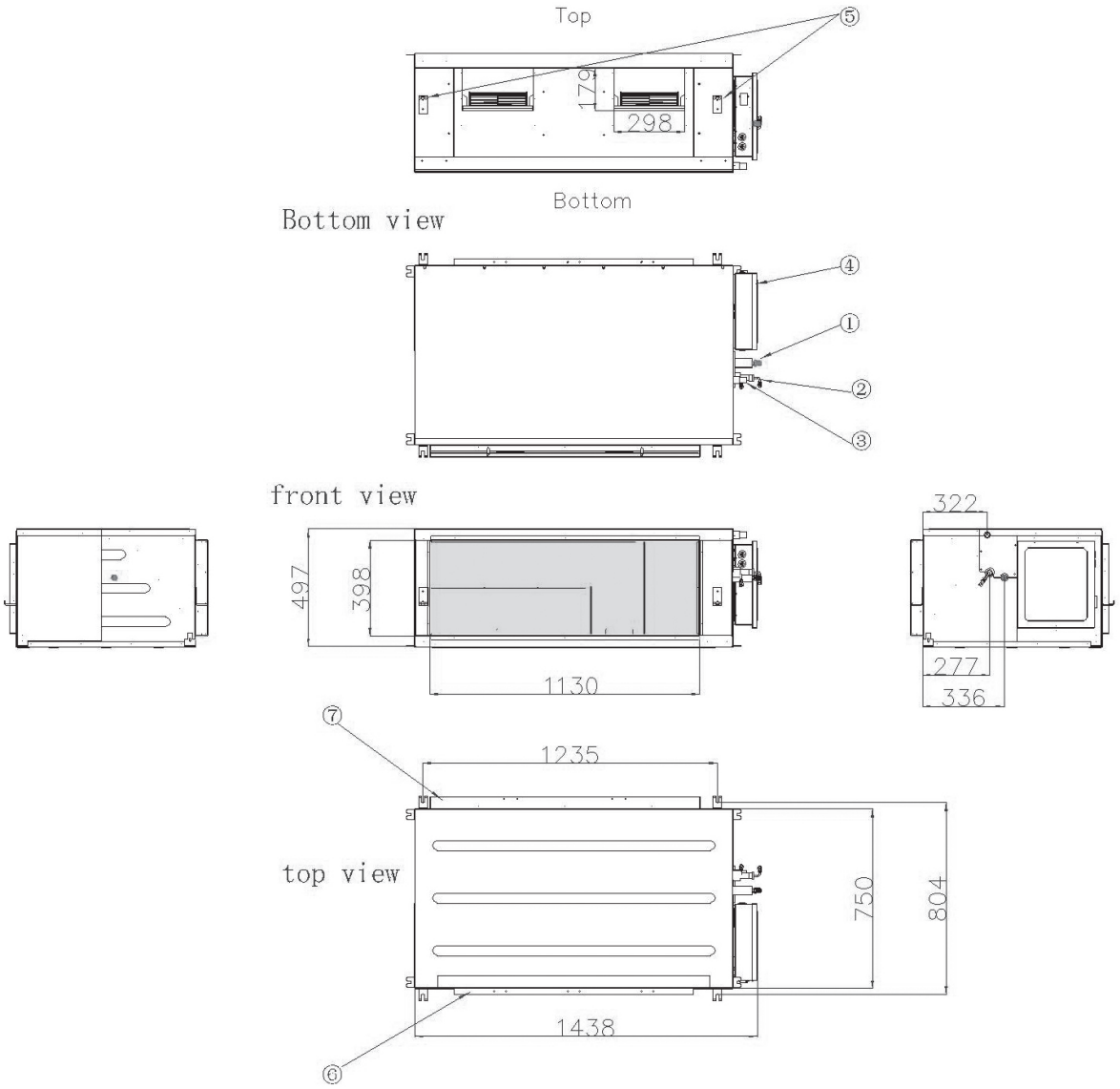


DVMA 110-140-160



N°	DESCRIPTION
1	Liquid pipe
2	Gas pipe
3	Drain pipe
4	Electrical box
5	Hanging foot
6	Air outlet
7	Air inlet
8	Fresh air

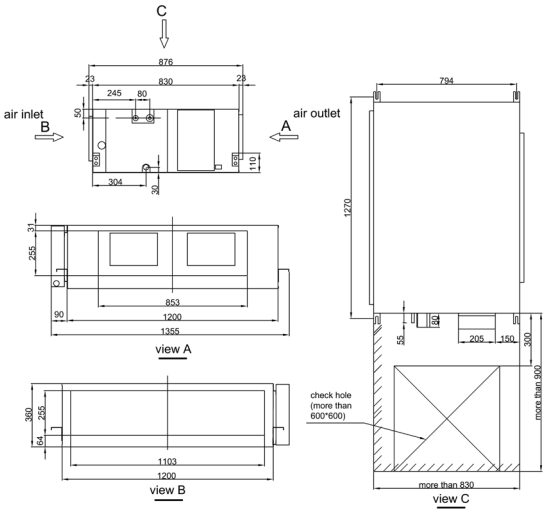
DVHA - HIGH-PRESSURE DUCTED



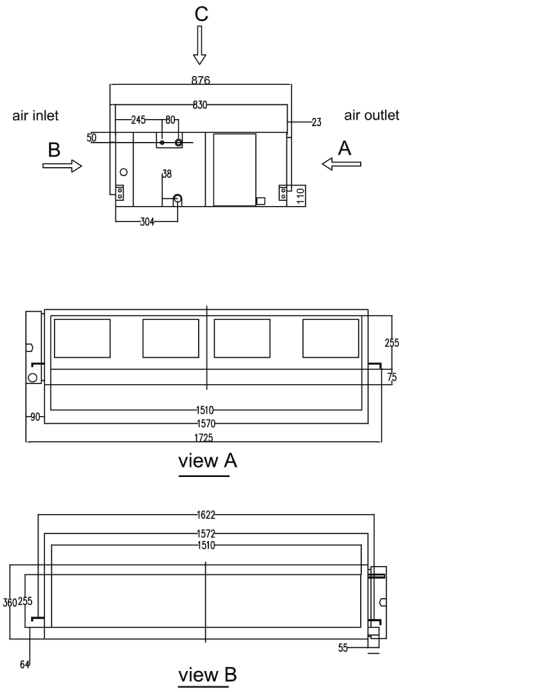
N°	DESCRIPTION
1	Liquid pipe connection
2	Gas pipe connection
3	Drain hose with pump
4	Electrical box
5	Hanging foot
6	Air inlet
7	Air outlet

DVFA - FULL FRESH AIR DUCTED UNIT

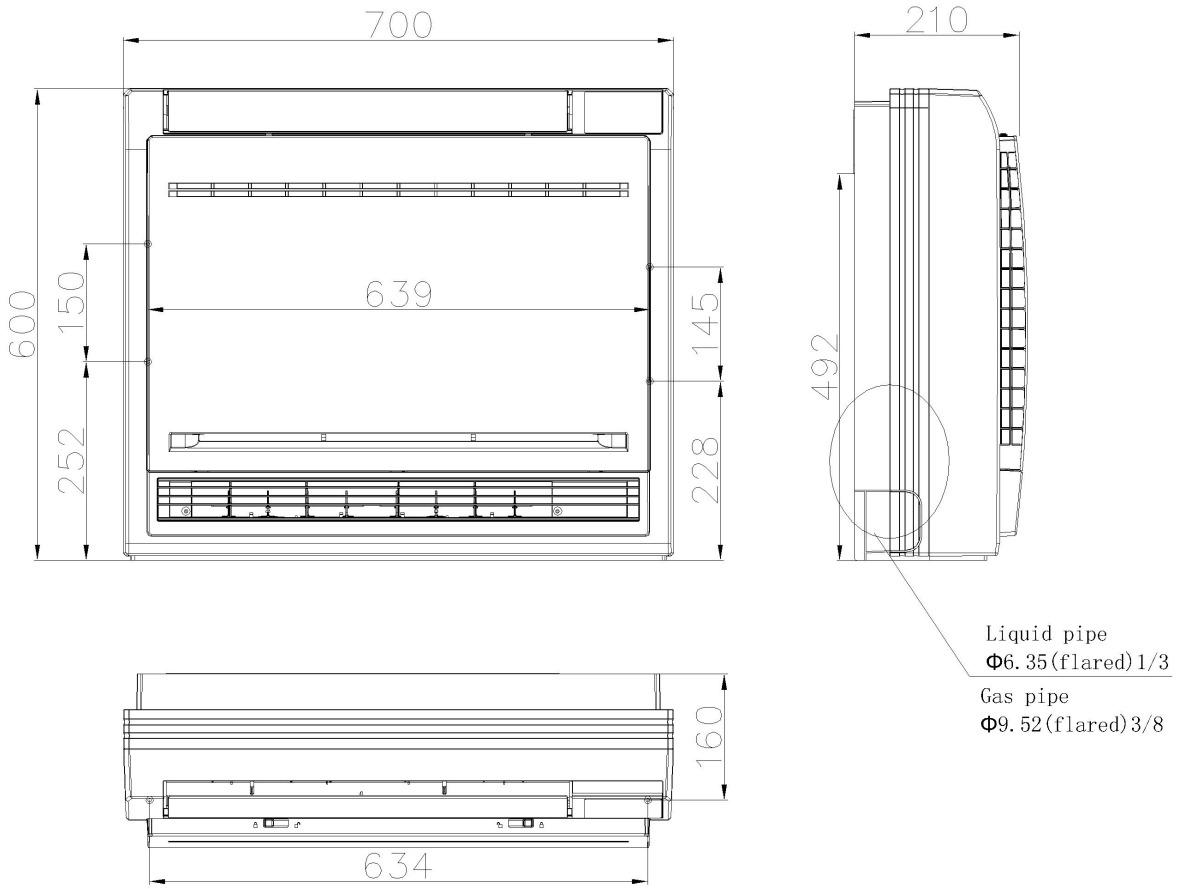
DVFA 140



DVFA 220-280

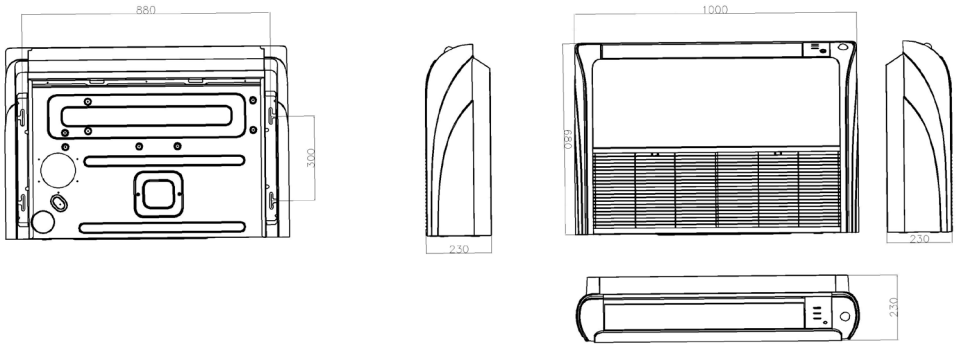


XVVA - CONSOLE

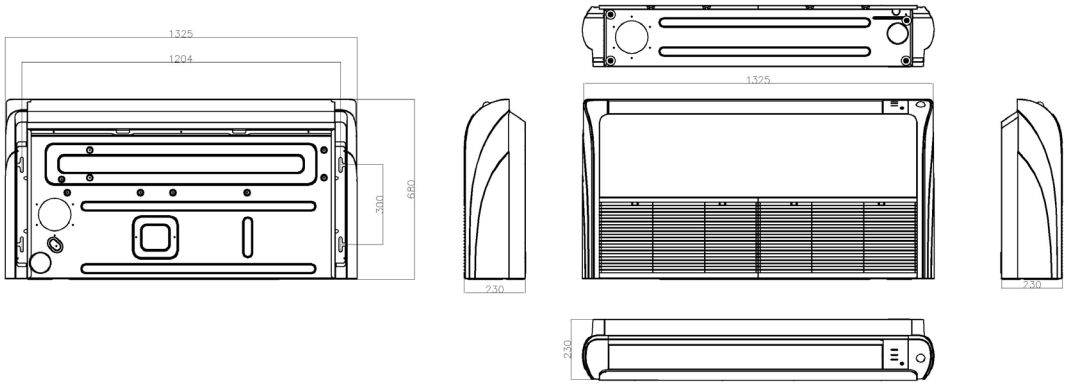


FVVA - FLOOR CEILING

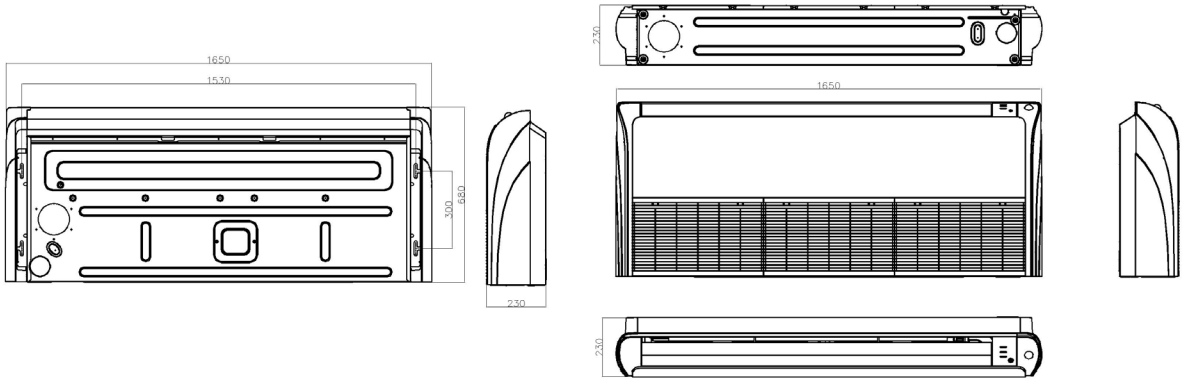
FVVA 025/050



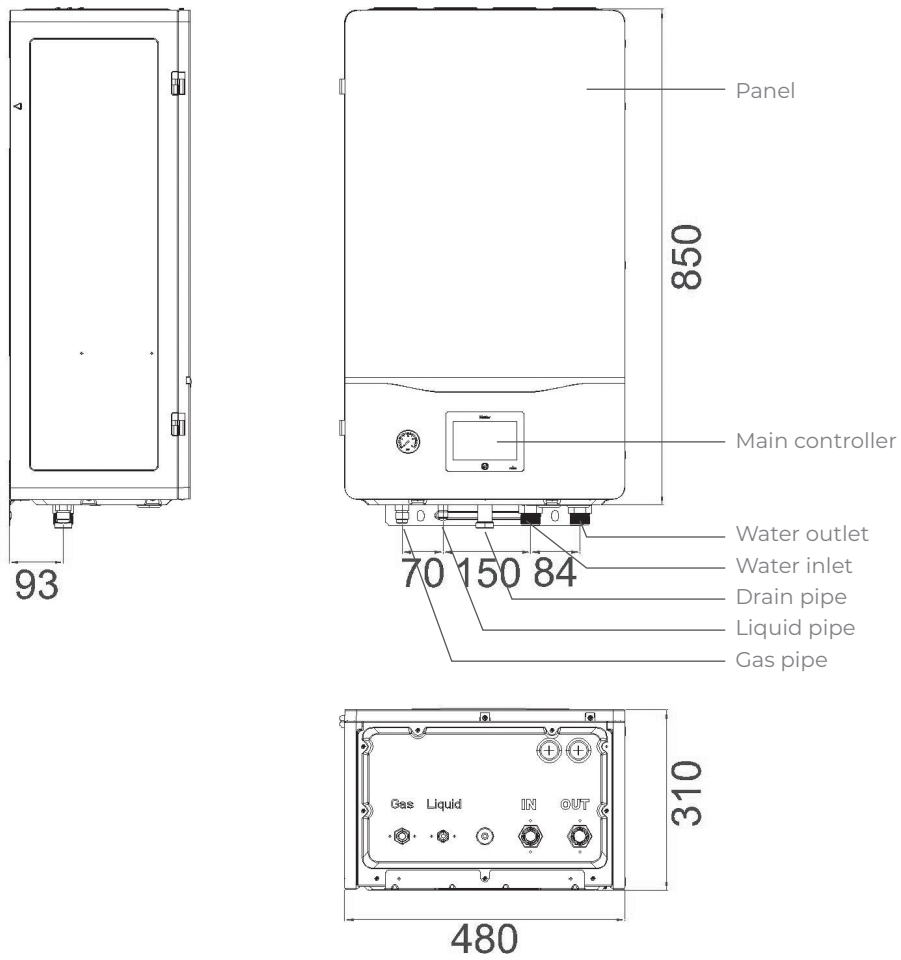
FVVA 70-90



FVVA 110-140

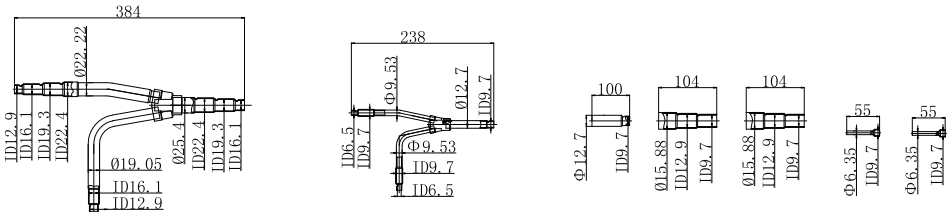


OVVA - HYDROBOX



REFNETS

TAU335



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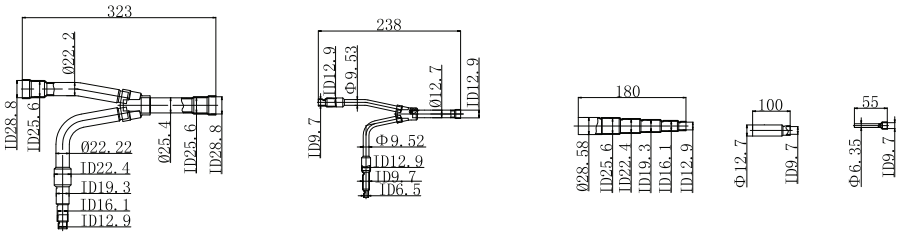

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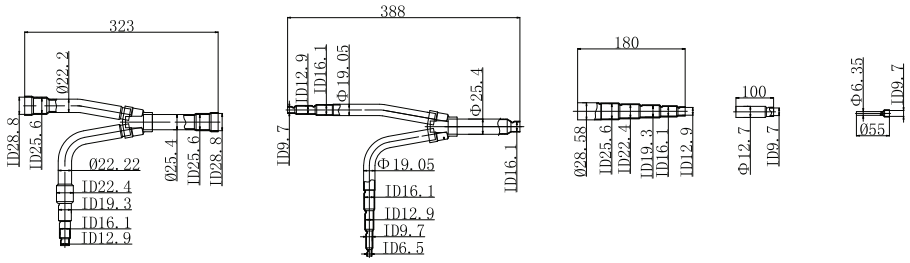
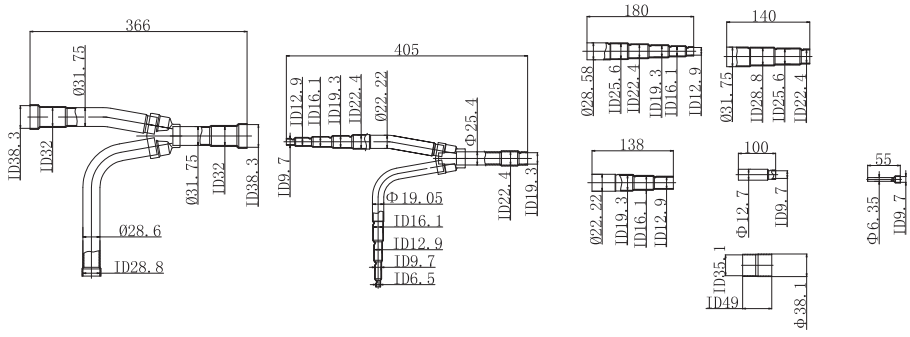


TAU1350



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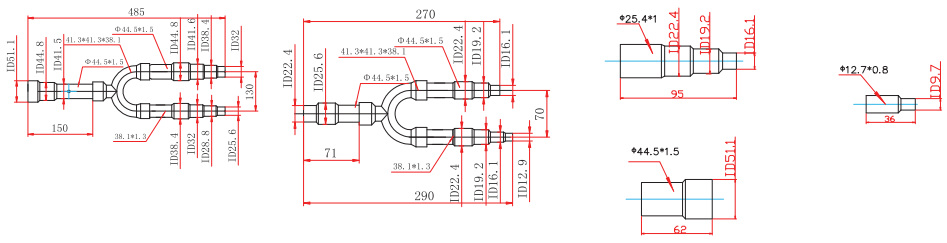
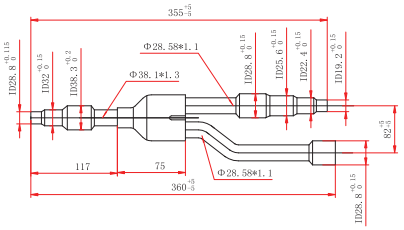


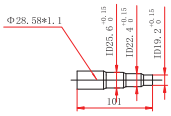
REFNETS

TBS20

Gas pipe

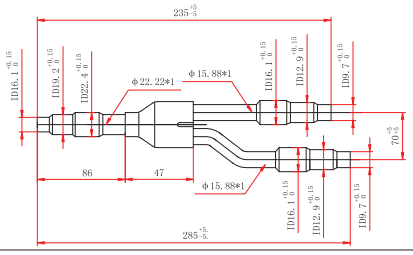
A





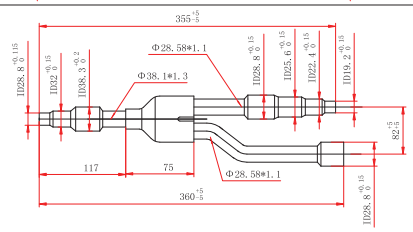
Liquid pipe

B

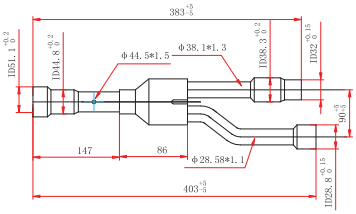


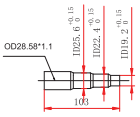
Gas pipe

C



D



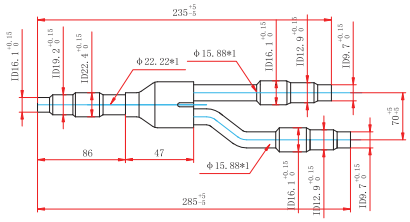


double

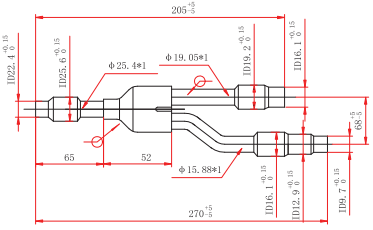
TBS30

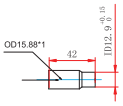
Liquid pipe

E



F



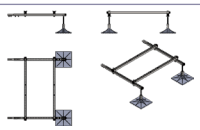


double

Controller receiver and BMS accessories

ACCESSORY	PHOTO	CODE	MODEL	FUNCTION	FOR WHICH DEVICES?	OPTION / COMMENT
BMS SOLUTIONS & MAINTENANCE						
CENTRAL CONTROLLER GATEWAY AND MODBUS/ RTU		**7ACELH027**	**ADV05**	• *RWV06 and RWV09 adaptor and ModBus/ RTU gateway..*	• *VVFA*	• *See configuration page 59.*
MAINTENANCE TOOL		**7ACELH014**	**TD03**	• *Working parameters monitoring and recording tool..*	• *VVFA* • *VVTA* • *VVEA*	
MULTI-TENANT SOLUTION						
MULTI-TENANT ELECTRONIC CARD		**7ACEL1921**		• *Separate circuit breakers* • *Direct current (DC) power supply* • *Electronic expansion valve (EEV) deactivation*	• *All indoor units*	• *For hotel rooms and multi-tenant buildings.*

Installation accessories

ACCESSORY	RFERENCE	PHOTO	CODE	FUNCTION
COPPER				
Insulated copper	1/4"-3/8" - 10ml 1/4"-1/2" - 10ml 3/8"-5/8" - 10ml 1/4"-3/8" - 7ml 1/4"-1/2" - 7ml 3/8"-5/8" - 7ml		**7ACFH0810** **7ACFH0811** **7ACFH0812** **7ACFH0813** **7ACFH0814** **7ACFH0815**	• *Refrigerant tubing to connect between the outdoor unit and the indoor unit for residential monosplit and multisplit*
OUTDOOR UNIT SUPPORT				
Wall support	Max. load 160 kg Horiz. 560 mm Vert. 365 mm Barre 800 mm		**7ACTL0506**	• *Support for outdoor unit installation for residential monosplit and multisplit*
Anti-corrosion wall support	Max. load 160 kg Horiz. 460 mm Vert. 410 mm Barre 790 mm		**7ACTL0555**	• *SSupport for outdoor nit installation for residential monosplit and multisplit* • *Screws + anti-vibration pads provided*
kit of 4 anti-vibration pads			**7ACTL0508**	• *Ideal for limiting noise and vibrations (neighborhood)*
Floor mount recycled rubber (pair)	Length 600 mm Length 1000 mm		**7ACTL0509** **7ACTL0510**	• *Necessary for a professional installation.* • *High quality: using rubber.*
Floor mount (pair)	450x100 mm		**7ACTL0513**	• *Necessary for a professional installation.* • *Good quality price ratio: using PVC.*
DRV CHASSIS SUPPORT				
DRV CHASSIS SUPPORT 4 PLOTS	Max. charge 500 kg 1000x1200 mm		**7ACTL0514**	• *Compatible with all DRV outdoor units*
DRV CHASSIS SUPPORT 6 PLOTS	Max. charge 1040 kg 2000x1200 mm		**7ACTL0515**	• *Compatible with all DRV outdoor units*
DRV CHASSIS SUPPORT 2 PLOTS	Max. charge 500 kg 1000x1200 mm		**7ACTL0516**	• *Compatible with all DRV outdoor units*
CONDENSATE PUMP				
CONDENSATE PUMP MINI FLOWATCH MF2			**7ACTL0517**	• *Evacuates condensates from indoor units*
CONDENSATE PUMP FLOWATCHDESIGN			**7ACTL0518**	• *Evacuates condensates from indoor units*

Regulations

ON R410A FLUID

CALCULATION EXAMPLE

Classic case of a hotel, i.e. a category "A" building.

THE PROJECT/EXAMPLE CHARACTERISTICS ARE:

- Typical 2-3* hotel.*.
- DRV system designed to supply 12 to 16 rooms.
- Outdoor unit model 280 (10 HP).
- Reversible DRV that can supply up to 16 units
- 11 kg of R410A refrigerant recommended.
- Smaller bedroom, bathroom included: 13 m^2 > volume = 32,50 m^3.
- CMV ventilation of 60 m^3/h, i.e. 10 m^3 in 10 minutes.

THIS GIVES THE FOLLOWING CALCULATION:

- Room volume to take into account: **32,50 +10 = 42,50 m^3.**
- **MAXIMUM LOAD UNDER THE STANDARD:** **0,42 kg/m^3 x 42,5 m^3 = 17,85 kg de refrigerant**
- Since the calculation is determined for the room with the smallest volume, the total refrigerant capacity of the installation must be taken into account: :
  - Outdoor unit (11 kg) + network backup.
  - The network back-up is calculated according to the lengths and diameters of the copper piping used. See refrigeration diagram.
- **MAXIMUM PROJECT LOAD CALCULATION:** **11 kg + (4,520 kg) = 15,520 kg of refrigerant**

Compliant with regulations

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

* Pouce = inch. Pied = foot.

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

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

HP (HORSE POWER) *	BTU	KW
1	9000	2,637
1,5	12000	3,516
2	18000	5,274
2,5	24000	7,032
3	30000	8,79
5	45000	13,185

MASS VOLUME	
1 cu.ft/lb	62,43 dm^3/kg
1 US gallon/pound	8,3 dm^3/kg

DENSITY	
1 pound/cu.ft	0,016 kg/dm^3

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

AREA		
1 square inch (in^2)	6,4516 cm^2	
1 square foot (ft^2)	0,0929 m^2	
1 square yard (yd^2)	0,8361 m^2	
1 square carré (m^2)	1550 in^2	10,76391 ft^2

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

° Fahrenheit = °C x 9/5 + 32 / ° Celsius = (°F-32) x 5/9 / ° Celsius = T (Kelvin) - 273,15.
* Indicative values.
Rated capacities of our products are given for air conditions as following:
Cooling mode: 35°C ext./27°C int. (Dry bulb)
Heating mode: +7°C ext./20°C int. (Dry bulb)

Discover below some tips to decipher our references and product codes more quickly.

1 ▸ UNDERSTAND PRODUCT CODES

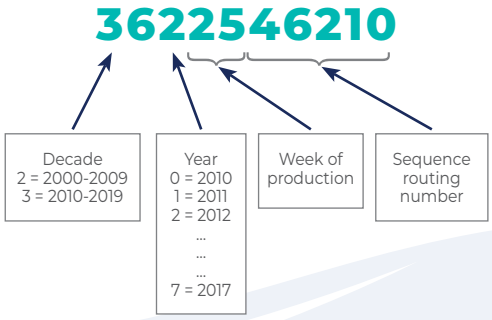
Digit n° 1		Digit n° 2 & 3 Product constitution		Digit n° 4 & 5 Subfamily	
2	AirSolar	VF	VRF	01	Floor ceiling
7	Airwell	OG	Chilled water terminal	02	Hi-wall
E	Electra	KT	Kit	03	Ducted
J	Johnson	MB	Monoblock	04	Cassette
		SP	Split (2 units)	05	Window
		CK	Unassembled product	06	Monosplit condensing unit
		PR	Spare part	07	Console
		EN	Renewable energy	08	Portable
				09	Multisplit condensing unit
				10	Floor standing
				11	Airflow
				12	Rooftop unit
				13	Hydraulic module
				17	Thermodynamic water heater
				18	Vertical cabinet
				14	Monoblock condensing unit
				15	DRV water source
				19	Water source
				20	Water condenser
				21	Water-cooled condensing unit
				22	Hybrid panel
				23	Photovoltaic panel
				24	Heating panel
				25	Micro-inverter

2 ▸ UNDERSTAND ACCESSORY CODES

Digit n° 1		Digit n° 2 & 3		Digit n° 4 & 5 (& 6)	
7	Airwell assembled product	AC	Accessories	EL	Electricity kit - Heating
				ELH	Electricity kit - Heating / VRF
				FH	Cold & hydraulic kit
				FHH	Cold & hydraulic kit / VRF
				TL	Sheeting Kit / Casing & Metal sheet Kit
				VF	Fan & airflow kit
				VFH	Fan & airflow / VRF kit

3 ▸ UNDERSTAND SERIAL NUMBERS

Each unit (IDU or ODU) is also identify with a unique serial number which can assist tracing the unit .



GROUPE **AIRWELL**

ARTICLE 1 - PURPOSE AND SCOPE

1.1. These general terms and conditions of sale apply to all sales of equipment and deliveries of services entered into by Groupe Airwell SA (hereinafter the "Vendor"), a public limited company (société anonyme) with a capital of 242,361.30 euros whose registered office is located at 10, rue du Fort de Saint Cyr, 78180 Montigny le Bretonneux, France, entered in the Versailles trade and companies register under number 824 596 795 from a professional buyer, understood as any natural or legal person, public or private, who acts for purposes within the framework of his commercial, industrial, craft, liberal or agricultural activity, including when they act in the name and on behalf of another professional. These general terms and conditions of sale are not applicable to a consumer or non-professional buyer.

1.2. "Equipment" refers to finished products, accessories, and spare parts.

1.3. Any order implies full and unconditional acceptance of these general terms and conditions of sale, which prevail over any other document of the buyer, particularly its general terms and conditions of purchase, unless otherwise expressly agreed beforehand by the Vendor.

1.4. If the Vendor does not invoke any one of the clauses of the general terms and conditions of sale at a given moment, this may not be interpreted as a waiver of its rights to invoke such clauses or these general terms and conditions of sale subsequently.

ARTICLE 2 - GENERAL INFORMATION: CATALOGUES, DOCUMENTATION

2.1. Because of the speed of the technological evolution and the evolution of standards or improvements regarding security in the field in question, any information, indication, or item of value transmitted on any medium, whether it comes from the manufacturer or the Vendor, is given for information purposes only. These parties reserve the right to make any modification to the equipment whose etchings, photographs, or drawings appear on such documents, at any time and without notice. No document provided by the Vendor is considered a contractual element, and the Vendor cannot be held liable for such documents.

2.2. Where the selection of the proposed equipment is done by the Vendor on the basis of information provided by the informed professional buyer, the buyer is always responsible for ensuring that the characteristics of the equipment proposed by the Vendor are actually suitable for its needs, with regard to both performance and the possibilities of implementation. In addition, if the buyer resorts to the collaboration of the Vendor's engineers or technicians for a study or project, the Vendor may not be held responsible, and the buyer undertakes to consult an expert in the field for, among other things, the selection and sizing of the equipment and its installation and commissioning.

2.3. The buyer must not modify the markings affixed on the equipment or packaging, add any other marking, or use the Vendor's markings, names, or trademarks in any way not expressly authorised.

ARTICLE 3 - ORDERS AND QUOTATIONS

3.1. Orders are firm. Once accepted, the order or quotation may only be modified or cancelled by the buyer with the Vender's prior express consent. The buyer shall be liable for any order cancellation, even partial, and the Vendor shall be entitled to compensation in the form of a penalty set in the amount of the cancelled order, without prejudice to all other damages.

3.2. Any acceptance of an order or quotation must be written. Sales are final only after the express acceptance materialized by the Vendor's issue of an acknowledgement of receipt of the buyer's order. The Vendor reserves the right to accept or reject any order within a maximum of five business days from its receipt.

3.3. The buyer must check the acknowledgement of receipt of the order and report any error or omission to the Vendor within a maximum period of 48 hours from its receipt. Beyond this period, the order becomes final for the buyer. If a buyer places an order with the Vendor, without having paid for its previous order(s), the Vendor may refuse to honor the order and deliver the equipment in question, without the buyer being able to claim any compensation for any reason whatsoever.

3.4. The Vendor reserves the right, even after partial fulfilment of an order, to require guarantees or to cancel the order(s) or balances of orders in progress in the name of the buyer, without any compensation any kind, in the following cases: deterioration of the buyer's credit, failure to file documents and instruments with the registry of the commercial court, downgrading of the buyer's rating by the Vendor's credit department, refusal of a credit insurer or a factor to cover the amount of the sale, change or modification in the financial or legal capacity of the buyer, registrations or liens on the buyer's business or in general, in case of a change in the buyer's situation.

ARTICLE 4 - DELIVERY AND TRANSPORT

4.1. Unless there are provisions or an agreement to the contrary, the transport/delivery costs are borne by the purchaser. The reference incoterms are FCA vendor's warehouse or FOB port of shipment from the manufacturing plants.

4.2. The delivery lead times are given for information purposes only. In no case may exceeding the lead times justify the cancellation of the order or the awarding of damages. However, if the equipment still has not been delivered two months after a formal notice has remained unsuccessful, for any other cause other than force majeure (as defined in article 6.2), the order may then be cancelled at the request of either party; the buyer may obtain a refund of its advance payment to the exclusion of any other compensation or damages..

4.3. In accordance with Article 133-3 of the French commercial code, any delivered equipment that was not the subject of reservations by registered letter with acknowledgement of receipt within three days following the date of such receipt (not including holidays) to the transporter, a copy of which shall be simultaneously sent to the Vendor, shall be considered accepted by the buyer.

ARTICLE 5 - RECEIPT AND RETURN OF EQUIPMENT

5.1. Complaints about apparent defects or the non-conformity of the delivered equipment must be expressed in detail on the delivery slip and by registered letter with acknowledgement of receipt and sent to the Vendor's registered office within 72 hours following the delivery. Beyond this period, the received equipment shall be considered conforming to the order. It shall be up to the buyer to provide, with its complaint, any justification as to the reality of the noted defects or anomalies. The buyer shall give the Vendor every opportunity to investigate such defects and find a solution.

5.2. In any case, the buyer may not return the equipment without authorization from the Vendor. The Vendor shall be responsible for the costs and risks of the return solely in the event that an apparent defect or missing items are actually noted by it or its representative. If a claim proves justified, the return shall be the subject of an exchange or a credit memo, at the Vendor's choice, without the ability to demand any compensation or damages in any capacity whatsoever. Any return of equipment previously accepted due to the buyer, including but not limited to an order error or incorrect information communicated for a calculation or an order made by the buyer, will result in a discount to be defined according to the condition and/or antiquated or possible obsolescence of the returned product. The buyer shall be responsible for the return transport.

ARTICLE 6 - PRICE - TARIFFS - PRICE REDUCTIONS

6.1. Unless there are provisions or an agreement to the contrary, prices are set in euros net of tax and FCA vendor's warehouse for sales from the seller's stock, or FOB port of shipment from the manufacturing plants. For sales from manufacturing plants, a handling/freight/stuffing fee of 470 euros per container (regardless of container type) will be charged.

6.2. Equipment is sold on the basis of the Vendor's tariffs in force as at the date when each order is placed, or as at the date of issue of each quotation, subject to a delivery occurring no later than the end of the second calendar month following that date. Beyond that period, any price change before delivery shall be automatically applicable.

6.3. No discount shall be applied by the Vendor for cash payment or for payment earlier than the period indicated in these general terms and conditions of sale or on the invoice issue by the Vendor.

6.4. Unless otherwise agreed, the Vendor may grant the buyer discounts on the prices in force, including in the form of premiums, at the time when the order is placed, depending on the turnover excluding taxes generated annually or over a given period, and/or the quantity/nature of the purchased finished products and/or services possibly rendered by the buyer. These discounts may be fixed and/or gradual and may vary according to the categories of buyers.

6.5. If one of the criteria for application of these price reductions or any one of the clauses of these terms and conditions of sale is not met, the elimination of the benefit of such price reductions shall be immediately retroactive over the entire year in question. Consequently, if price reductions have already been applied by the Vendor during the year in question, they must be returned by the buyer on simple request.

ARTICLE 7 - PAYMENT TERMS

7.1. For any company based outside France, invoices shall be payable according to the payment period negotiated and agreed by the Vendor. For all French companies, invoices are payable within a maximum period of 45 days, end of month, or 60 days from the invoice issue date. For summarised invoices issued at the end of the month, the period must not exceed 45 days from the invoice issue date (article L. 441-6 of the Code of Commerce).

7.2. The Vendor reserves the right to require one or more advance payments when the order is placed and/or before shipment. Any commercial paper (bill of exchange or promissory note) presented for acceptance must be returned within eight clear days of its receipt by the buyer..

7.3. In accordance with Articles L. 441-3, L. 441-6, and D. 441-5 of the French commercial code, any payment delay automatically results in, in addition to late payment penalties at a rate equal to three times the statutory interest rate (i.e., 0.77% in the second half of 2022 updated each half-year period by the Minister of the Economy, with the understanding that this rate shall apply to the amount of the invoice including all taxes), an obligation for the debtor to pay 40 euros in recovery charges if the invoice has not been settled on the day following the payment date appearing on the invoice. In addition, in case of a late payment or a partial payment, (i) the Vendor may suspend all current and/or future orders; (ii) 48 hours after a formal notice has remained unsuccessful, the sale shall be automatically terminated, if so desired by the Vendor, which may bring action for summary proceedings for the return of the equipment, without prejudice to any other action and/or damages. The buyer must reimburse all costs caused by the non-payment (including return costs on unpaid debts) and the recovery of sums due, including fees of ministerial officers and/or recovery companies.

7.4. In no case may payments be suspended or offset without the Vendor's prior written approval. Any partial payment shall first be applied to the non-preferential part of the debt, then on the amounts with the earliest due date.

ARTICLE 8 - RETENTION OF TITLE AND TRANSFER OF RISKS

8.1. The transfer of ownership of the equipment is subject to the full payment of the price by the buyer. The buyer undertakes to maintain the equipment in good condition and insure it against all rights, for which the buyer shall be fully responsible in all cases, as from their delivery. In order to permit any action for recovery by the Vendor, the buyer must ensure that the equipment can be individually identified.

8.2. The Vendor may recover its equipment regardless of whose possession it is in, in case of non-payment of the price by the buyer or insolvency concerning it, even when such equipment has been handed over to a third party. If the equipment resold, the buyer must notify the new buyer of the existence of the retention of title clause.

ARTICLE 9 - LOCAL STANDARDS AND COMPLIANCE

9.1. As concerns European countries subject to the FGAS EU517/2014 regulation, the importer of the products bears sole liability to the European authorities for the declaration of the FGAS quotas. Therefore, for orders from Airwell's central stock located in France, the FGAS quotas are declared by Airwell; no further action is to be taken by Airwell customers. For drop-shipped orders, imported directly from plants outside of Europe, the Airwell customer importing this order bears sole liability for the declaration of the FGAS quotas to the relevant authorities. The lat-

ter must complete the declaration paperwork in its own country. Airwell may, at the customer's request, sell and transfer FGAS quotas but Airwell shall not be held liable under any circumstances for a failure to declare quotas or any error in the quantities declared. The importing customer bears sole liability for the declaration of FGAS quotas.

9.2. Any entry of goods into the European Union or a third country is the sole responsibility of the importer. In this sense, the buyer is solely responsible for ensuring the conformity of the products he imports. Airwell cannot be held responsible if the products do not conform to the local standards when they enter the "destination" territory (release for consumption). The buyer must provide in advance all the documents necessary for the conformity of the imported products on the territory of "destination" (release for consumption). Airwell strongly recommends a pre-departure inspection of the goods, at the customer's (buyer's) expense, to ensure the conformity of the imported goods. After research and analysis, Airwell reserves the right to refuse the order or to modify the pricing.

9.3. As a condition of sale, the buyer, by placing an order with GROUPE AIRWELL SA for products and/or technology and/or services provided by GROUPE AIRWELL SA, certifies all of the following provisions:

Neither the buyer nor any of the buyer's shareholders are entities designated on the Specially Designated National List (SDN List), or other similar sanctions lists maintained by the applicable jurisdiction. The buyer further warrants that it and its affiliates will not engage in prohibited transactions with parties on this list.

The buyer is not a military/military intelligence end user and will not use the product(s) and/or technology and/or service(s) for a military/military intelligence end use. Buyer shall not sell, export, re-export, transfer, or divert the Product(s) and/or Technology and/or Service(s), directly or indirectly, to any use, location, or user in violation of applicable export control and sanctions laws, including, but not limited to, the U.S. Export Administration Regulations (EAR) and U.S. sanctions administered by the U.S. Department of the Treasury's Office of Foreign Assets Control (OFAC).

Buyer represents that it and/or any of its shareholders or customers are not, nor are they part of, entities engaged in any way in money laundering, terrorist financing, trafficking in arms or war material, drug trafficking, human trafficking, or any other crime under French law, local law, or the Rome Statute of the International Criminal Court. The buyer shall indemnify and hold GROUPE AIRWELL SA harmless from all damages, costs, fines, penalties and other expenses resulting from the failure by the buyer or one of its shareholders to comply with the aforementioned provisions..

ARTICLE 10 - ASSIGNMENT OF JURISDICTION - APPLICABLE LAW

These general terms and conditions of sale are subject to French law. Any dispute shall be under the exclusive jurisdiction of the VERSAILLES COMMERCIAL COURT, even in case of interim proceedings, incidental claims, or multiple defendants or introduction of third parties.

ARTICLE 11 - INTELLECTUAL PROPERTY

11.1. The buyer is authorized, on a precarious basis, to use the brand, the commercial name, the sign, the graphic elements and other distinctive signs relating to the Vendor's equipment for the sole purpose of identifying and promoting them and in the exclusive interest of the Vendor. This right of use does not confer any ownership rights to the buyer. The buyer undertakes not to register and not to be the owner of trademarks, models, domain names, patents, signs, trade names, product references and other distinctive signs belonging to the Vendor (or of which it has the use) or which could lead to confusion with its own.

11.2. With regard to the Vendor's graphic elements, such as logos or photographs, the buyer undertakes to use and reproduce them only and reproduce them only in strict compliance with the quality of the image and the format of the original graphic elements. The buyer shall not modify them or use them in such a way as to degrade the brand image of the Vendor or those image of the Vendor or of his equipment.

11.3. The buyer's right to use the Vendor's trademarks, trade names or other distinctive signs shall cease immediately when the business relationship with the Vendor ceases for any reason whatsoever. The same applies to non-compliance by the buyer with the conditions of use described in this article may result in the termination of this right of use at any time by of use at any time by simple letter.

ARTICLE 12 - PROTECTION OF PERSONAL DATA

12.1. Any order for equipment implies the processing, by the Vendor, of personal data within the meaning of European Regulation 2016/679 of 27 April 2016 and Law No. 78-17 of 6 January 1978 relating to data processing, files and freedoms in its current version (hereinafter collectively the "Applicable Laws"), which relate to the buyer and/or the natural person, representative of the buyer, who places the order in the name and on behalf of the buyer.

12.2. The Vendor declares that it complies with the Applicable Laws and, in particular, implements the principles of personal data protection, notably the principles of lawfulness, proportionality, transparency and data minimization as set forth in the Applicable Laws.

12.3. The manner in which such data is collected and processed by the Vendor, as well as a description of the buyer's rights with respect to such data, are set out in the privacy policy adopted by the Vendor and available on its website at the URL https://www.airwell.com/en/privacy-policy/.

12.4. The Vendor's privacy policy is an integral part of these terms and conditions of sale.

THESE GENERAL TERMS AND CONDITIONS MAY BE SENT TO YOU IMMEDIATELY IN BOLD CHARACTERS ON SIMPLE REQUEST. AS THESE TERMS AND CONDITIONS ARE ESSENTIAL TO THE VENDOR'S COMMITMENT, WE INVITE YOU TO CONTACT US IF THEIR READABILITY IS NOT SUITABLE FOR YOU.

CERTIFICATIONS

EUROVENT
Eurovent certified product.

PERFORMANCES

FLUIDE R410A
Refrigerant fluid R410A.
PRP = 2100

TECHNOLOGY & CONNECTIVITY

SIMPLICITY OF ASSEMBLY
Unit compatible with various indoor units.

DC INVERTER
Compressor with high efficiency DC engine.

ELECTRONIC EXPANSION VALVE
Precise control of refrigerant flow, optimized of performance and compressor protection.

3D AIRFLOW
Optimized heating and cooling operations, with an automatic horizontal and vertical swing.

MULTIFLOW 360°
360° homogeneous airflow for greater comfort.

BLUE FIN TREATMENT
Protection of exchangers against corrosion.

BLACK FIN TREATMENT
Reinforced corrosion protection and increased efficiency.

AIRCONNECT SMART
Home automation application to control all Airwell products from your smartphone.

AIR QUALITY / CLEAN

FRESH AIR
Possible connection to a fresh air supply.

USER FUNCTIONS

I FEEL
Precise temperature control all around the chosen zone via a remote temperature sensor.

PROGRAMMABLE TIMER
Daily programming based on the user's lifestyle.

AUTO RESTART MEMORY
In case of power failure, automatic restart in the last operating mode of the system.

INSTALLER FUNCTIONS

ERROR CODE VIA INDOOR UNIT
Digital display of error codes or temperature settings on the indoor unit.

AUTO-DIAGNOSTIC
Unit failure indicated by a blinking led on the unit display.

INTEGRATED CONDENSATES PUMP
Simplified installation, thanks to the integrated condensate pump.

DRY CONTACT ON/OFF
Connection to a detection accessory (room card, presence detector, window...) to make energy savings.

BMS COMPATIBLE
Connection to the BMS system.

SERVICE MONITOR TOOL
Local interface for monitoring the operating parameters.

YOUR CONTACT FOR AFTER-SALES, TECHNICAL SUPPORT AND SPARE PARTS ORDERS

Our hotline based in France is ready to support you and answer all your questions.

+33 (0)1 76 21 82 95

Monday to Friday 9h-12h30 / 14h-17h

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