

THE VRF AIRWELL OFFER



VVEA 3-tube energy recovery VRF range



- ▶ 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 mono-modules 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.



Shops



Hotels



Offices

COMPATIBLE

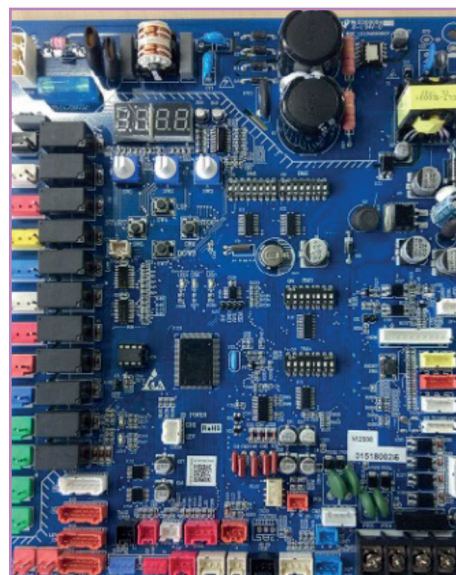


COMPATIBLE



▶ Modbus output included

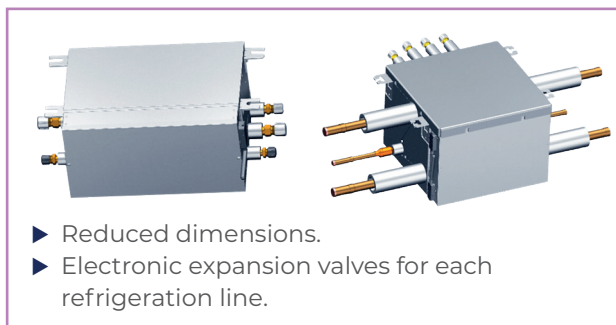
No need for a gateway anymore to use a centralized controller or integrate the system with a BMS. An addressable and configurable Modbus output is directly available on the outdoor unit.



► New selection 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.

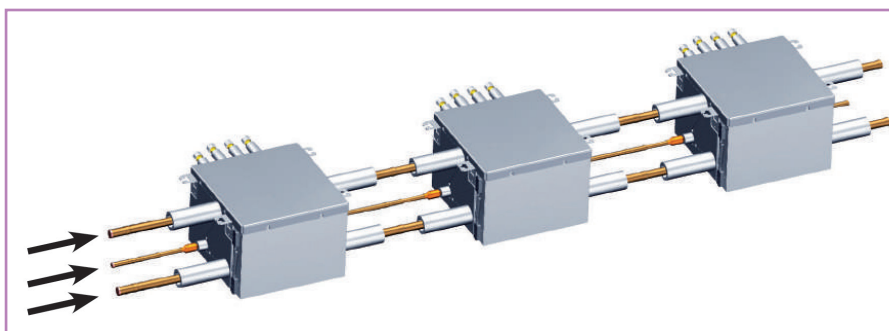
In addition, the new selection boxes are equipped with **3 additional tubes** at the output, allowing it to be put in series for unprecedented modularity. This is valid for boxes with 4 outlets.



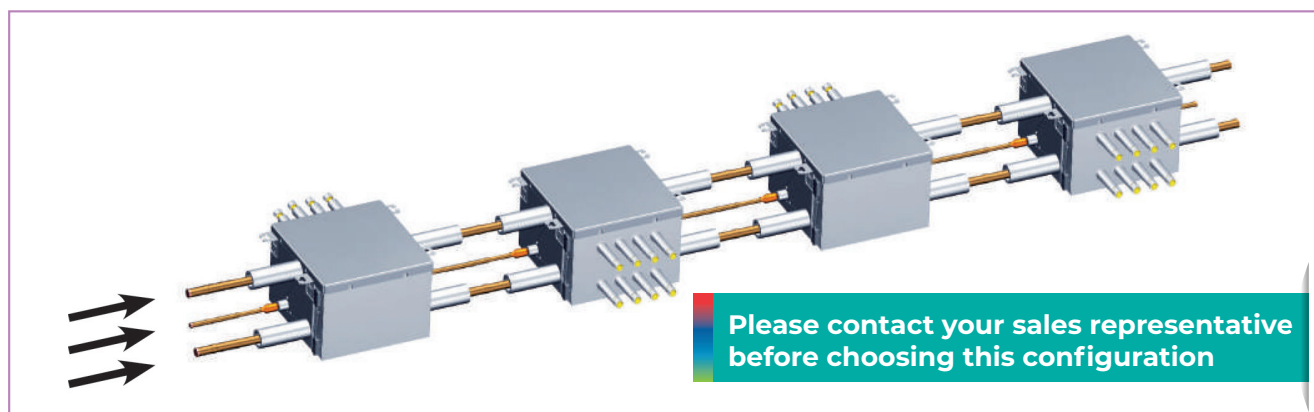
- Reduced dimensions.
- Electronic expansion valves for each refrigeration line.

MODEL	MAXIMUM CONNECTABLE CAPACITY (kW)	POWER SUPPLY	MAXIMUM NUMBER OF CONNECTABLE INDOOR UNITS (same operation mode)	DIMENSIONS (mm)
KIT VVEA HR	< 11.2	1P/220-240V/50-60Hz	5	388x200x277
KIT VVEA HR	< 18	1P/220-240V/50-60Hz	8	388x200x277
KIT VVEA HR	< 28	1P/220-240V/50-60Hz	8	388x200x277
KIT VVEA HR 4 PORTS	< 45	1P/220-240V/50-60Hz	20	405x300x421

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



- Possibility of inverting the orientation of the series in order to have the connections of the indoor units on the right, on the left or alternately from the main line, according to the needs of the installation.



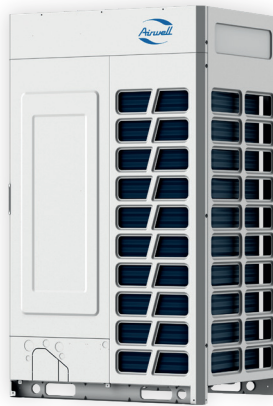
* Limit determined by the diameters of the selector box inlet pipes.



VRF
Outdoor units

VVEA

3-pipes with heat recovery



VVTA 250-450



VVTA 504-735

COMPATIBLE



COMPATIBLE



+ PRODUCT

- Up to 61,6 and 240 kW in coupling
- New selection boxes
- New 4-way heat exchanger
- Modbus outlet



RWV06 (optional)



RWV09 (optional)

FEATURES

TECHNOLOGY



DC INVERTER



BLUE FIN TREATMENT

INSTALLER FUNCTIONS



SELF DIAGNOSTIC



BMS COMPATIBLE



SERVICE MONITOR TOOL

CERTIFICATION

- AIRWELL participates in the ECP programme for ACI. Check ongoing validity of certificate: 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.

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 boîte 4-way selection boxes in series with reversible orientation.
- > Automatic oil balance, no more balance tube.
- > Reinforced anti-corrosion treatment.
- > Compatible with AirConnect Pro and AirConnect Smart.

ACCESSORIES

ACCESSORY	PART NUMBER	REF.	PHOTO	FUNCTION	COMMENT
Gather pipe kit for 2 outdoor groups	7ACELH041	TBS20HR		• Refrigerant gathering	• For 2 outdoor groups
Gather pipe kit for 3 outdoor groups	7ACELH042	TBS30HR		• Refrigerant gathering	• For 3 outdoor groups
Gather pipe kit for 4 outdoor groups	7ACELH043	TBS40HR		• Refrigerant gathering	• For 4 outdoor groups
Manifold pipe kit (gas + liquid)	7ACFHH007	TAU335HR		• Refrigerant gathering	• 33,5 kW > Total IDU power
	7ACFHH008	TAU506HR		• Refrigerant gathering	• 33,5 kW ≤ Total IDU power < 50,6 kW
	7ACFHH009	TAU730HR		• Refrigerant gathering	• 50,6 kW ≤ Total IDU power < 73 kW
	7ACFHH010	TAU1350HR		• Refrigerant gathering	• 73 kW ≤ Total IDU power < 135 kW
	7ACELH044	TAU2040HR		• Refrigerant gathering	• 135 kW ≤ Total IDU power
Central controller gateway and ModBus/RTU	7ACELH027	ADV05		• RWV06 and RWV08 adaptor and ModBus/RTU gateway	• See configuration page <?>
Maintenance tool	7ACELH014	TD02		• Working parameters monitoring and recording tool	
Smart WiFi module	7ACEL1869	-		• Remote control by the smart WiFi module and controlled by the AirConnect Smart application	• Module dimensions: 86x86x12 mm.

TECHNICAL DATA

MODEL		VVEA-250R-01T32	VVEA-280R-01T32	VVEA-335R-01T32	VVEA-400R-01T32	VVEA-450R-01T32	VVEA-504R-01T32	VVEA-560R-01T32	VVEA-615R-01T32
Part number		7VF150010	7VF150011	7VF150012	7VF150013	7VF150014	7VF150015	7VF150016	7VF150017
Phase		Three phases				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	50.40	56.00	61.50
Rated power input	kW	5.63	7.67	9.57	12.31	14.06	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	9.29	12.67	15.81	20.33	23.22	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		3.98	3.65	3.50	3.25	3.20	3.12	3.25	3.08
SEER		7.05	6.68	6.58	6.37	6.86	6.48	5.90	5.74
Seasonal operating limits		279	264	260	252	271	256	233	227
HEATING MODE									
Rated power*	kW	22.40	28.00	33.50	40.00	45.00	50.40	56.00	61.50
Rated power input	kW	5.15	6.67	8.38	10.53	11.39	13.70	15.78	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	8.50	11.01	13.83	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		4.35	4.20	4.00	3.80	3.95	3.68	3.55	3.43
SCOP		4.02	3.94	4.08	3.86	4.21	3.99	3.93	3.76
Seasonal operating limits		158	155	160	151	165	157	154	147
POWER SUPPLY									
Phase/Voltage/Frequency		3P/380-415V/50-60Hz				3P/380-415V/50-60Hz			
PERFORMANCE									
Airflow (HS)	m ³ /h	12000	12000	13500	13500	17000	17000	19000	19000
Sound pressure (HS)	dB(A)	57.00	58.00	60.00	61.00	62.00	63.00	63.00	64.00
INSTALLATION									
External dimensions (WxHxD)	mm	980x750x1690				1410x750x1690			
Shipping dimensions (WxHxD)	mm	1070x850x1858				1485x850x1858			
Net weight/Gross weight	kg	246/271		257/282		366/395		375/404	
Compressor	Type	Scroll DCI				Scroll DCI			
	Brand	Mitsubishi Electric				Mitsubishi Electric			
	Number of compressors	1	1	1	1	2	2	2	2
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Charge	kg	10	10	10	10	10	10	10	10
Liquid pipe diameter	inches	3/8"	3/8"	1/2"	1/2"	1/2"	5/8"	5/8"	5/8"
Suction pipe diameter	inches	3/4"	7/8"	1"	1"	1 1/8"	1 1/8"	1 1/8"	1 1/8"
Suction pipe diameter haut	inches	3/4"	3/4"	7/8"	7/8"	1"	1"	1"	1"
Max. length	m	1000	1000	1000	1000	1000	1000	1000	1000
Max. length (equivalent/actual)	m	260/220	260/220	260/220	260/220	260/220	260/220	260/220	260/220
Max. height between indoor and outdoor units (ODU down/up) (1)	m	110/90	110/90	110/90	110/90	110/90	110/90	110/90	110/90
Standard height between indoor and outdoor units (ODU down/up) (2)	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40	50/40
Max. height between indoor units (3)	m	30	30	30	30	30	30	30	30
Standard height between indoor units (4)	m	18	18	18	18	18	18	18	18
External static pressure	Pa	110	110	110	110	110	110	110	110
Indoor/outdoor unit power ratio (min./max.)	%	50~130	50~130	50~130	50~130	50~130	50~130	50~130	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 (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

3-pipes with heat recovery

TECHNICAL DATA FOR TWO COMBINATIONS

MODEL		VVEA-670R-01T32	VVEA-735R-01T32	VVEA-800R-01T32	VVEA-850R-01T32
COMBINATIONS		VVEA-335R-01T32	VVEA-335R-01T32	VVEA-400R-01T32	VVEA-400R-01T32
		7VF150012	7VF150012	7VF150013	7VF150013
		VVEA-335R-01T32	VVEA-400R-01T32	VVEA-400R-01T32	VVEA-450R-01T32
		7VF150012	7VF150013	7VF150013	7VF150014
Phase		Three phases			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	19.14	21.88	24.62	26.37
Max. power input	kW	36.40	37.40	38.40	44.30
Rated current	A	31.61	36.13	40.65	43.55
Max. current	A	60.11	61.77	63.42	73.16
EER		3.50	3.36	3.25	3.22
SEER		6.58	6.46	6.37	6.61
Seasonal operating limits		260	255	252	261
HEATING MODE					
Rated power*	kW	67.00	73.50	80.00	85.00
Rated power input	kW	16.75	18.90	21.05	21.92
Max. power input	kW	34.80	35.80	36.80	41.10
Rated current	A	27.66	31.22	34.77	36.20
Max. current	A	57.47	59.12	60.78	67.88
COP		4.00	3.89	3.80	3.88
SCOP		4.08	3.94	3.86	4.02
Seasonal operating limits		160	155	151	158
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)	63.00	63.50	64.00	64.50
INSTALLATION					
External dimensions (WxHxD)	mm	980x750x1690 + 980x750x1690			980x750x1690 + 1410x750x1690
Shipping dimensions (WxHxD)	mm	1070x850x1858 + 1070x850x1858			1070x850x1858 + 1485x850x1858
Net weight/Gross weight	kg	246/271 + 246/271			246/271 + 366/395
Compressor	Type	Scroll DCI			
	Brand	Mitsubishi Electric			
	Number of compressors	2	2	2	3
Refrigerant		R410A	R410A	R410A	R410A
Charge	kg	20	20	20	20
Liquid pipe diameter	inches	5/8"	5/8"	5/8"	3/4"
Suction pipe diameter	inches	1 1/8	1 1/8	1 1/8	1 1/4
Suction pipe diameter haut	inches	1"	1"	1"	1 1/8
Max. length	m	1000	1000	1000	1000
Max. length (equivalent/actual)	m	260/220	260/220	260/220	260/220
Max. height between indoor and outdoor units (ODU down/up) (1)	m	110/90	110/90	110/90	110/90
Standard height between indoor and outdoor units (ODU down/up) (2)	m	50/40	50/40	50/40	50/40
Max. height between indoor units (3)	m	30	30	30	30
Standard height between indoor units (4)	m	18	18	18	18
External static pressure	Pa	110	110	110	110
Indoor/outdoor unit power ratio (min./max.)	%	50-130	50-130	50-130	50-130
Maximum number of connectable indoor units	quantity	40	43	47	50
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 (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°CWB).

TECHNICAL DATA FOR TWO COMBINATIONS

MODEL		VVEA-900R-01T32	VVEA-954R-01T32	VVEA-1008R-01T32	VVEA-1064R-01T32	VVEA-1120R-01T32	VVEA-1175R-01T32	VVEA-1230R-01T32
COMBINATIONS		VVEA-450R-01T32	VVEA-450R-01T32	VVEA-504R-01T32	VVEA-504R-01T32	VVEA-560R-01T32	VVEA-560R-01T32	VVEA-615R-01T32
		7VF150014	7VF150014	7VF150015	7VF150015	7VF150016	7VF150016	7VF150017
		VVEA-450R-01T32	VVEA-504R-01T32	VVEA-504R-01T32	VVEA-560R-01T32	VVEA-560R-01T32	VVEA-615R-01T32	VVEA-615R-01T32
		7VF150014	7VF150015	7VF150015	7VF150016	7VF150016	7VF150017	7VF150017
Phase		Three phases						
Power	HP	32	34	36	38	40	42	44
COOLING MODE								
Rated power*	kW	90.00	95.40	100.80	106.40	112.00	117.50	123.00
Rated power input	kW	28.13	30.19	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	46.45	49.86	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		3.20	3.16	3.12	3.19	3.25	3.16	3.08
SEER		6.86	6.64	6.48	6.15	5.90	5.81	5.74
Seasonal operating limits		271	263	256	243	233	229	227
HEATING MODE								
Rated power*	kW	90.00	95.40	100.80	106.40	112.00	117.50	123.00
Rated power input	kW	22.78	25.09	27.40	29.47	31.55	33.69	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	48.68	52.11	55.63	59.16
Max. current	A	74.98	79.60	84.23	90.67	97.11	98.76	100.41
COP		3.95	3.80	3.68	3.61	3.55	3.49	3.43
SCOP		4.21	4.08	3.99	3.96	3.93	3.83	3.76
Seasonal operating limits		165	160	157	155	154	150	147
POWER SUPPLY								
Phase/Voltage/Frequency		3P/380-415V/50-60Hz						
PERFORMANCE								
Airflow (HS)	m³/h	34000	34000	34000	36000	38000	38000	38000
Sound pressure (HS)	dB(A)	65.00	65.50	66.00	66.00	66.00	66.50	67.00
INSTALLATION								
External dimensions (WxHxD)	mm	1410x750x1690 + 1410x750x1690						
Shipping dimensions (WxHxD)	mm	1485x850x1858 + 1485x850x1858						
Net weight/Gross weight	kg	366/395 + 366/395			366/395 + 375/404		375/404 + 375/404	
Compressor	Type	Scroll DCI						
	Brand	Mitsubishi Electric						
	Number of compressors	4	4	4	4	4	4	4
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A
Charge	kg	20	20	20	20	20	20	20
Liquid pipe diameter	inches	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Suction pipe diameter	inches	1"1/4	1"1/4	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2
Suction pipe diameter haut	inches	1"1/8	1"1/8	1"3/8	1"3/8	1"3/8	1"3/8	1"3/8
Max. length	m	1000	1000	1000	1000	1000	1000	1000
Max. length (equivalent/actual)	m	260/220	260/220	260/220	260/220	260/220	260/220	260/220
Max. height between indoor and outdoor units (ODU down/up) (1)	m	110/90	110/90	110/90	110/90	110/90	110/90	110/90
Standard height between indoor and outdoor units (ODU down/up) (2)	m	50/40	50/40	50/40	50/40	50/40	50/40	50/40
Max. height between indoor units (3)	m	30	30	30	30	30	30	30
Standard height between indoor units (4)	m	18	18	18	18	18	18	18
External static pressure	Pa	110	110	110	110	110	110	110
Indoor/outdoor unit power ratio (min./max.)	%	50~130	50~130	50~130	50~130	50~130	50~130	50~130
Maximum number of connectable indoor units	quantity	53	56	59	63	64	64	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 (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°CWB).

VVEA

3-pipes with heat recovery

TECHNICAL DATA FOR THREE COMBINATIONS

MODEL		VVEA-1300R-01T32	VVEA-1350R-01T32	VVEA-1404R-01T32	VVEA-1458R-01T32	VVEA-1512R-01T32	VVEA-1568R-01T32
COMBINATIONS		VVEA-400R-01T32	VVEA-450R-01T32	VVEA-450R-01T32	VVEA-450R-01T32	VVEA-504R-01T32	VVEA-504R-01T32
		7VF150013	7VF150014	7VF150014	7VF150014	7VF150015	7VF150015
		VVEA-450R-01T32	VVEA-450R-01T32	VVEA-450R-01T32	VVEA-504R-01T32	VVEA-504R-01T32	VVEA-504R-01T32
		7VF150014	7VF150014	7VF150014	7VF150015	7VF150015	7VF150015
		VVEA-450R-01T32	VVEA-450R-01T32	VVEA-504R-01T32	VVEA-504R-01T32	VVEA-504R-01T32	VVEA-560R-01T32
		7VF150014	7VF150014	7VF150015	7VF150015	7VF150015	7VF150016
Phase		Three phases					Three phases
Power	HP	46	48	50	52	54	56
COOLING MODE							
Rated power*	kW	130.00	135.00	140.40	145.80	151.20	156.80
Rated power input	kW	40.43	42.19	44.25	46.32	48.39	49.49
Max. power input	kW	69.40	75.30	78.70	82.10	85.50	89.00
Rated current	A	66.77	69.67	73.09	76.50	79.91	81.73
Max. current	A	114.61	124.36	129.97	135.59	141.20	146.98
EER		3.22	3.20	3.17	3.15	3.12	3.17
SEER		6.70	6.86	6.70	6.58	6.48	6.25
Seasonal operating limits		265	271	265	260	256	247
HEATING MODE							
Rated power*	kW	130.00	135.00	140.40	145.80	151.20	156.80
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	71.30
Max. current	A	105.37	112.47	117.09	121.72	126.34	132.78
COP		3.90	3.95	3.85	3.76	3.68	3.63
SCOP		4.08	4.21	4.12	4.05	3.99	3.97
Seasonal operating limits		160	165	162	159	157	156
POWER SUPPLY							
Phase/Voltage/Frequency		3P/380-415V/50-60Hz					
PERFORMANCE							
Airflow (HS)	m ³ /h	51000	51000	51000	51000	53000	30500
Sound pressure (HS)	dB(A)	67.00	67.00	67.50	68.00	68.00	64.50
INSTALLATION							
External dimensions (WxHxD)	mm	980x750x1690 + 1410x750x1690 + 1410x750x1690	1410x750x1690 + 1410x750x1690 + 1410x750x1690				
Shipping dimensions (WxHxD)	mm	1070x850x1858 + 1485x850x1858 + 1485x850x1858	1485x850x1858 + 1485x850x1858 + 1485x850x1858				
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	6	6	6	6
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Charge	kg	30	30	30	30	30	30
Liquid pipe diameter	inches	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Suction pipe diameter	inches	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Suction pipe diameter haut	inches	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8
Max. length	m	1000	1000	1000	1000	1000	1000
Max. length (equivalent/actual)	m	260/220	260/220	260/220	260/220	260/220	260/220
Max. height between indoor and outdoor units (ODU down/up) (1)	m	110/90	110/90	110/90	110/90	110/90	110/90
Standard height between indoor and outdoor units (ODU down/up) (2)	m	50/40	50/40	50/40	50/40	50/40	50/40
Max. height between indoor units (3)	m	30	30	30	30	30	30
Standard height between indoor units (4)	m	18	18	18	18	18	18
External static pressure	Pa	110	110	110	110	110	110
Indoor/outdoor unit power ratio (min./max.)	%	50~130	50~130	50~130	50~130	50~130	50~130
Maximum number of connectable indoor units	quantity	64	64	64	64	64	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 (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°CWB).

TECHNICAL DATA FOR THREE COMBINATIONS

MODEL		VVEA-1624R-01T32	VVEA-1680R-01T32	VVEA-1735R-01T32	VVEA-1790R-01T32	VVEA-1845R-01T32
COMBINATIONS		VVEA-504R-01T32	VVEA-560R-01T32	VVEA-560R-01T32	VVEA-560R-01T32	VVEA-615R-01T32
		7VF150015	7VF150016	7VF150016	7VF150016	7VF150017
		VVEA-560R-01T32	VVEA-560R-01T32	VVEA-560R-01T32	VVEA-615R-01T32	VVEA-615R-01T32
		7VF150016	7VF150016	7VF150016	7VF150017	7VF150017
		VVEA-560R-01T32	VVEA-560R-01T32	VVEA-615R-01T32	VVEA-615R-01T32	VVEA-615R-01T32
		7VF150016	7VF150016	7VF150017	7VF150017	7VF150017
Phase		Three phases				
Power	HP	58	60	62	64	66
COOLING MODE						
Rated power*	kW	162.40	168.00	173.50	179.00	184.50
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		3.21	3.25	3.19	3.13	3.08
SEER		6.06	5.90	5.84	5.79	5.74
Seasonal operating limits		239	233	231	229	227
HEATING MODE						
Rated power*	kW	162.40	168.00	173.50	179.00	184.50
Rated power input	kW	45.25	47.33	49.46	51.60	53.73
Max. power input	kW	84.30	88.20	89.20	90.20	91.20
Rated current	A	74.73	78.16	81.68	85.21	88.74
Max. current	A	139.22	145.66	147.31	148.97	150.62
COP		3.59	3.55	3.51	3.47	3.43
SCOP		3.95	3.93	3.86	3.81	3.76
Seasonal operating limits		155	154	151	149	147
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)	68.00	68.00	68.00	68.50	69.00
INSTALLATION						
External dimensions (WxHxD)	mm	1410x750x1690 + 1410x750x1690 + 1410x750x1690				
Shipping dimensions (WxHxD)	mm	1485x850x1858 + 1485x850x1858 + 1485x850x1858				
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	6	6	6	6
Refrigerant						
Charge	kg	R410A 30	R410A 30	R410A 30	R410A 30	R410A 30
Liquid pipe diameter	inches	3/4"	3/4"	3/4"	3/4"	3/4"
Suction pipe diameter	inches	1"5/8	1"5/8	1"5/8	1"5/8	1"5/8
Suction pipe diameter haut	inches	1"1/2	1"1/2	1"1/2	1"1/2	1"1/2
Max. length	m	1000	1000	1000	1000	1000
Max. length (equivalent/actual)	m	260/220	260/220	260/220	260/220	260/220
Max. height between indoor and outdoor units (ODU down/up) (1)	m	110/90	110/90	110/90	110/90	110/90
Standard height between indoor and outdoor units (ODU down/up) (2)	m	50/40	50/40	50/40	50/40	50/40
Max. height between indoor units (3)	m	30	30	30	30	30
Standard height between indoor units (4)	m	18	18	18	18	18
External static pressure	Pa	110	110	110	110	110
Indoor/outdoor unit power ratio (min./max.)	%	50~130	50~130	50~130	50~130	50~130
Maximum number of connectable indoor units	quantity	64	64	64	64	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 (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°CWB).

TECHNICAL DATA FOR FOUR COMBINATIONS

MODEL		VVEA-1908R-01T32	VVEA-1962R-01T32	VVEA-2016R-01T32	VVEA-2072R-01T32	VVEA-2128R-01T32	VVEA-2184R-01T32
COMBINATIONS		VVEA-450R-01T32	VVEA-450R-01T32	VVEA-504R-01T32	VVEA-504R-01T32	VVEA-504R-01T32	VVEA-504R-01T32
		7VF150014	7VF150014	7VF150015	7VF150015	7VF150015	7VF150015
		VVEA-450R-01T32	VVEA-504R-01T32	VVEA-504R-01T32	VVEA-504R-01T32	VVEA-504R-01T32	VVEA-560R-01T32
		7VF150014	7VF150015	7VF150015	7VF150015	7VF150015	7VF150016
		VVEA-504R-01T32	VVEA-504R-01T32	VVEA-504R-01T32	VVEA-504R-01T32	VVEA-560R-01T32	VVEA-560R-01T32
		7VF150015	7VF150015	7VF150015	7VF150015	7VF150016	7VF150016
		VVEA-504R-01T32	VVEA-504R-01T32	VVEA-504R-01T32	VVEA-560R-01T32	VVEA-560R-01T32	VVEA-560R-01T32
		7VF150015	7VF150015	7VF150015	7VF150016	7VF150016	7VF150016
Phase		Three phases					Three phases
Power	HP	68	70	72	74	76	78
COOLING MODE							
Rated power*	kW	190.80	196.20	201.60	207.20	212.80	218.40
Rated power input	kW	60.38	62.45	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	99.72	103.14	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	3.14	3.12	3.16	3.19	3.22
SEER		6.64	6.55	6.48	6.30	6.15	6.02
Seasonal operating limits		263	259	256	249	243	238
HEATING MODE							
Rated power*	kW	190.80	196.20	201.60	207.20	212.80	218.40
Rated power input	kW	50.18	52.49	54.79	56.87	58.95	61.02
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	93.92	97.35	100.78
Max. current	A	159.21	163.83	168.45	174.89	181.34	187.78
COP		3.80	3.74	3.68	3.64	3.61	3.58
SCOP		4.08	4.04	3.99	3.98	3.96	3.94
Seasonal operating limits		160	159	157	156	155	155
POWER SUPPLY							
Phase/Voltage/Frequency		3P/380-415V/50-60Hz					
PERFORMANCE							
Airflow (HS)	m³/h	68000	68000	68000	70000	72000	74000
Sound pressure (HS)	dB(A)	69.00	69.00	69.00	69.00	69.00	69.00
INSTALLATION							
External dimensions (WxHxD)	mm	1410x750x1690 + 1410x750x1690 + 1410x750x1690 + 1410x750x1690					
Shipping dimensions (WxHxD)	mm	1485x850x1858 + 1485x850x1858 + 1485x850x1858 + 1485x850x1858					
Net weight/Gross weight	kg	366/395 + 366/395 + 366/395 + 366/395			366/395 + 366/395 + 366/395	366/395 + 366/395 + 375/404	366/395 + 375/404 + 375/404
Compressor	Type	Scroll DCI					
	Brand	Mitsubishi Electric					
	Number of compressors	8	8	8	8	8	8
Refrigerant							
Charge	kg	R410A 40	R410A 40	R410A 40	R410A 40	R410A 40	R410A 40
Liquid pipe diameter	inches	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"
Suction pipe diameter	inches	1"3/4	1"3/4	1"3/4	1"3/4	1"3/4	1"3/4
Suction pipe diameter haut	inches	1"5/8	1"5/8	1"5/8	1"5/8	1"5/8	1"5/8
Max. length	m	1000	1000	1000	1000	1000	1000
Max. length (equivalent/actual)	m	260/220	260/220	260/220	260/220	260/220	260/220
Max. height between indoor and outdoor units (ODU down/up) (1)	m	110/90	110/90	110/90	110/90	110/90	110/90
Standard height between indoor and outdoor units (ODU down/up) (2)	m	50/40	50/40	50/40	50/40	50/40	50/40
Max. height between indoor units (3)	m	30	30	30	30	30	30
Standard height between indoor units (4)	m	18	18	18	18	18	18
External static pressure	Pa	110	110	110	110	110	110
Indoor/outdoor unit power ratio (min./max.)	%	50-130	50-130	50-130	50-130	50-130	50-130
Maximum number of connectable indoor units	quantity	64	64	64	64	64	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 (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°CWB).

TECHNICAL DATA FOR FOUR COMBINATIONS

MODEL		VVEA-2240R-01T32	VVEA-2295R-01T32	VVEA-2350R-01T32	VVEA-2405R-01T32	VVEA-2460R-01T32
COMBINATIONS		VVEA-560R-01T32	VVEA-560R-01T32	VVEA-560R-01T32	VVEA-560R-01T32	VVEA-615R-01T32
		7VF150016	7VF150016	7VF150016	7VF150016	7VF150017
		VVEA-560R-01T32	VVEA-615R-01T32	VVEA-560R-01T32	VVEA-615R-01T32	VVEA-615R-01T32
		7VF150016	7VF150016	7VF150016	7VF150017	7VF150017
		VVEA-560R-01T32	VVEA-560R-01T32	VVEA-615R-01T32	VVEA-615R-01T32	VVEA-615R-01T32
		7VF150016	7VF150016	7VF150017	7VF150017	7VF150017
		VVEA-560R-01T32	VVEA-615R-01T32	VVEA-615R-01T32	VVEA-615R-01T32	VVEA-615R-01T32
		7VF150016	7VF150017	7VF150017	7VF150017	7VF150017
Phase		Three phases				
Power	HP	80	82	84	86	88
COOLING MODE						
Rated power*	kW	224.00	229.50	235.00	240.50	246.00
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	3.20	3.16	3.11	3.08
SEER		5.90	5.86	5.81	5.77	5.74
Seasonal operating limits		233	231	229	228	227
HEATING MODE						
Rated power*	kW	224.00	229.50	235.00	240.50	246.00
Rated power input	kW	63.10	65.24	67.37	69.51	71.64
Max. power input	kW	117.60	118.60	119.60	120.60	121.60
Rated current	A	104.21	107.74	111.26	114.79	118.31
Max. current	A	194.22	195.87	197.52	199.17	200.82
COP		3.55	3.52	3.49	3.46	3.43
SCOP		3.93	3.88	3.83	3.79	3.76
Seasonal operating limits		154	152	150	149	147
POWER SUPPLY						
Phase/Voltage/Frequency		3P/380-415V/50-60Hz				
PERFORMANCE						
Airflow (HS)	m³/h	76000	76000	76000	76000	76000
Sound pressure (HS)	dB(A)	69.00	69.00	69.50	70.00	70.00
INSTALLATION						
External dimensions (WxHxD)	mm	1410x750x1690 + 1410x750x1690 + 1410x750x1690 + 1410x750x1690				
Shipping dimensions (WxHxD)	mm	1485x850x1858 + 1485x850x1858 + 1485x850x1858 + 1485x850x1858				
Net weight/Gross weight	kg	375/404 + 375/404 + 375/404 + 375/404				
Compressor	Type	Scroll DCI				
	Brand	Mitsubishi Electric				
	Number of compressors	8	8	8	8	8
Refrigerant		R410A	R410A	R410A	R410A	R410A
Charge	kg	40	40	40	40	40
Liquid pipe diameter	inches	7/8"	7/8"	7/8"	1"	1"
Suction pipe diameter	inches	1"3/4	1"3/4	1"3/4	2"	2"
Suction pipe diameter haut	inches	1"5/8	1"5/8	1"5/8	1"3/4	1"3/4
Max. length	m	1000	1000	1000	1000	1000
Max. length (equivalent/actual)	m	260/220	260/220	260/220	260/220	260/220
Max. height between indoor and outdoor units (ODU down/up) (1)	m	110/90	110/90	110/90	110/90	110/90
Standard height between indoor and outdoor units (ODU down/up) (2)	m	50/40	50/40	50/40	50/40	50/40
Max. height between indoor units (3)	m	30	30	30	30	30
Standard height between indoor units (4)	m	18	18	18	18	18
External static pressure	Pa	110	110	110	110	110
Indoor/outdoor unit power ratio (min./max.)	%	50~130	50~130	50~130	50~130	50~130
Maximum number of connectable indoor units	quantity	64	64	64	64	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 (in cooling mode: indoor temperature is 27°C DB/19°C WB, outdoor temperature 35°C DB/24WB; in heating mode: indoor temperature is 20°C DB, outdoor temperature is 7°C DB/6°CWB).