

ELITE | ZTVC

DC INVERTER VRF SYSTEM
Product Catalogue





Production Capacity

Robotic
Assembly Arm



Automatic
Packing Robot



AGV System



MES System



Quality Superiority



Certification

ISO9001 quality management system, ISO14001 environmental management system, OHSAS18001 occupational health and safety management system, QC080000 electronic and electrical components and products harmful substances process management system certification

Main product certificated by CCC, energy-saving certification, ETL, AHRI, DOE, CE, CB, SASO, ESMA, MEW and others.





Enthalpy Difference Lab



Laboratory Control Room



200kg Transport Simulation Platform



Noise Test Lab



Professional Engineers



200HP Long-term Running Lab



EMC Lab



Modular Chiller Test Lab

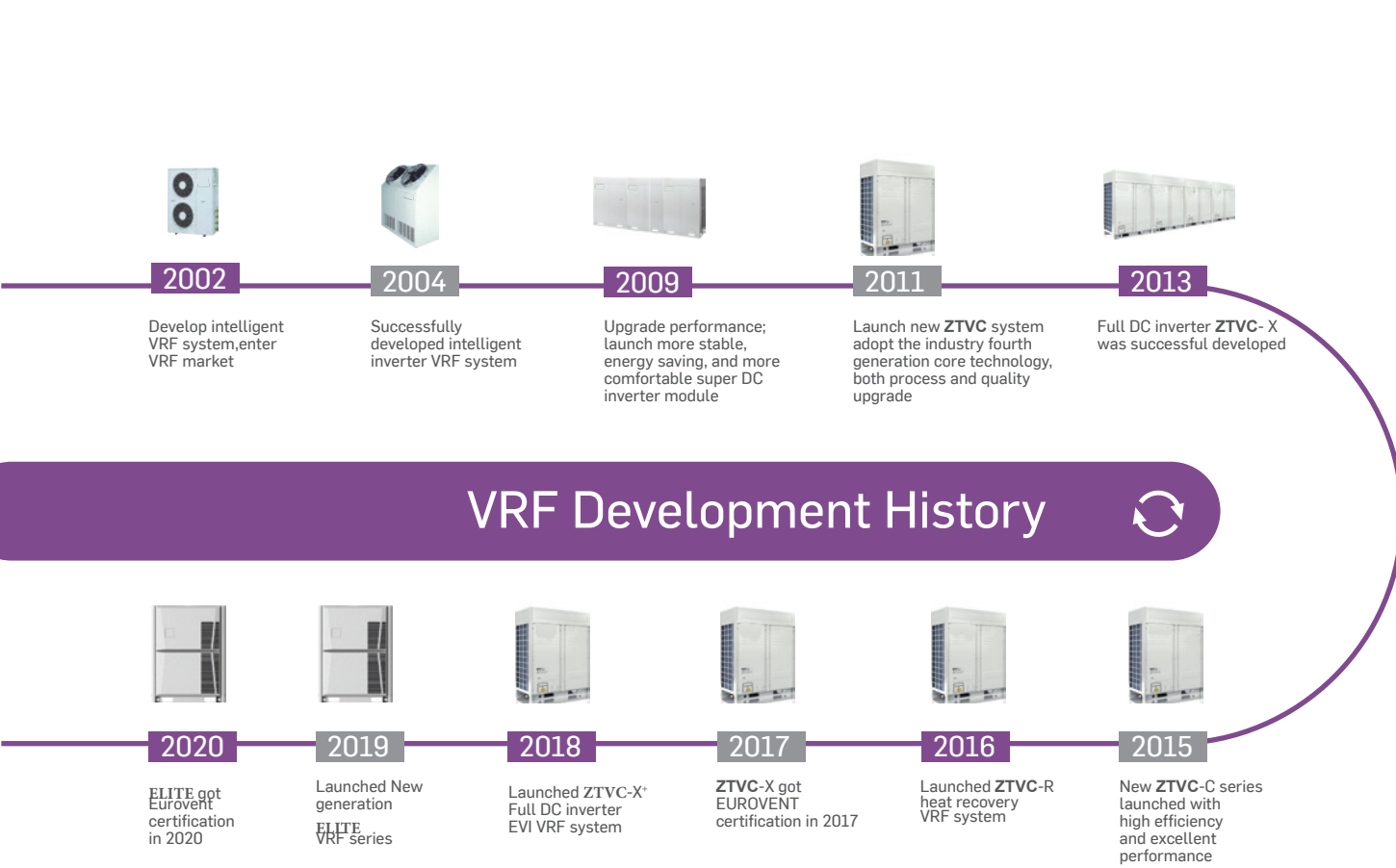


Electromagnetic Vibration Lab

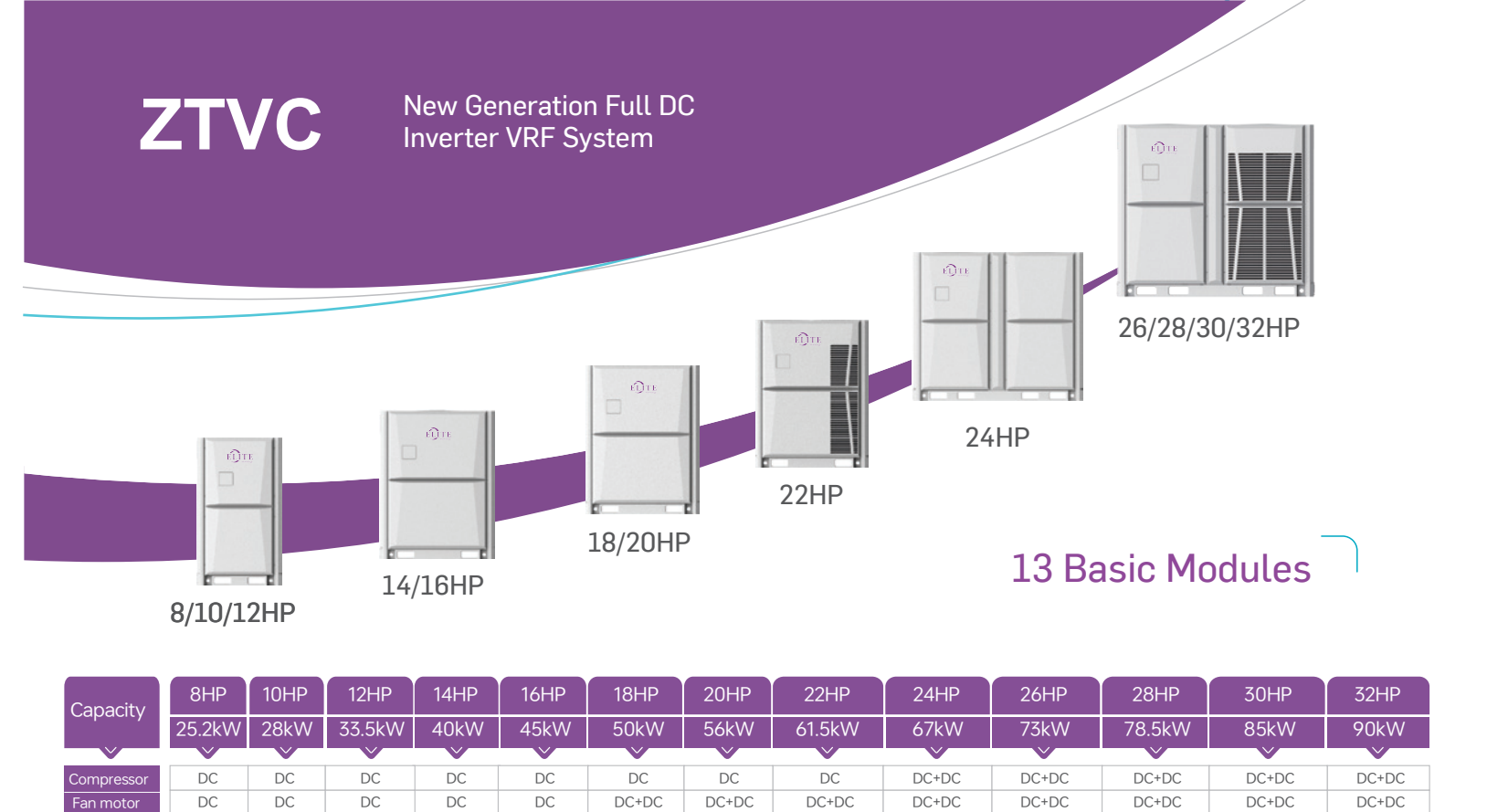
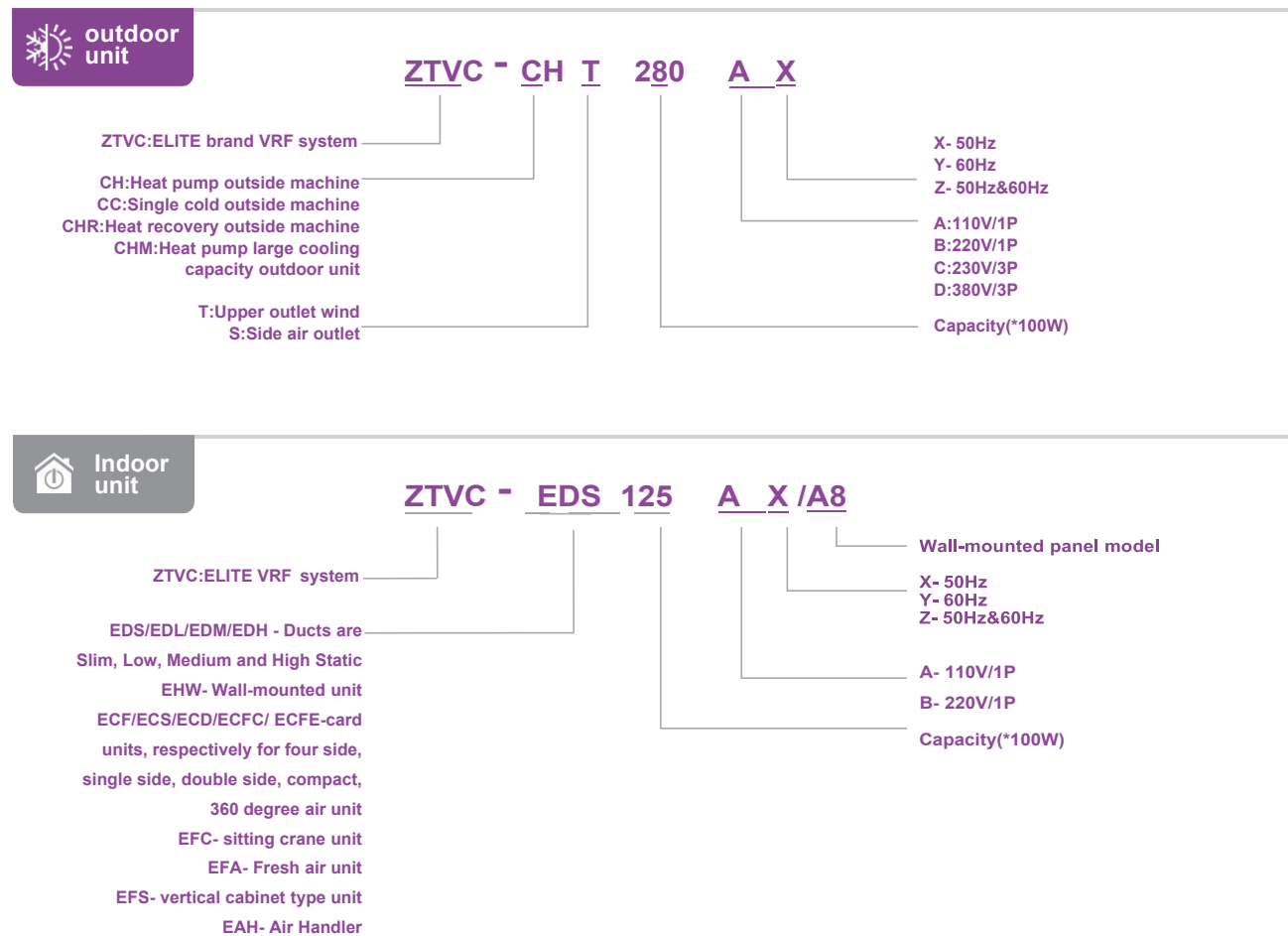
R&D Strength

Directory

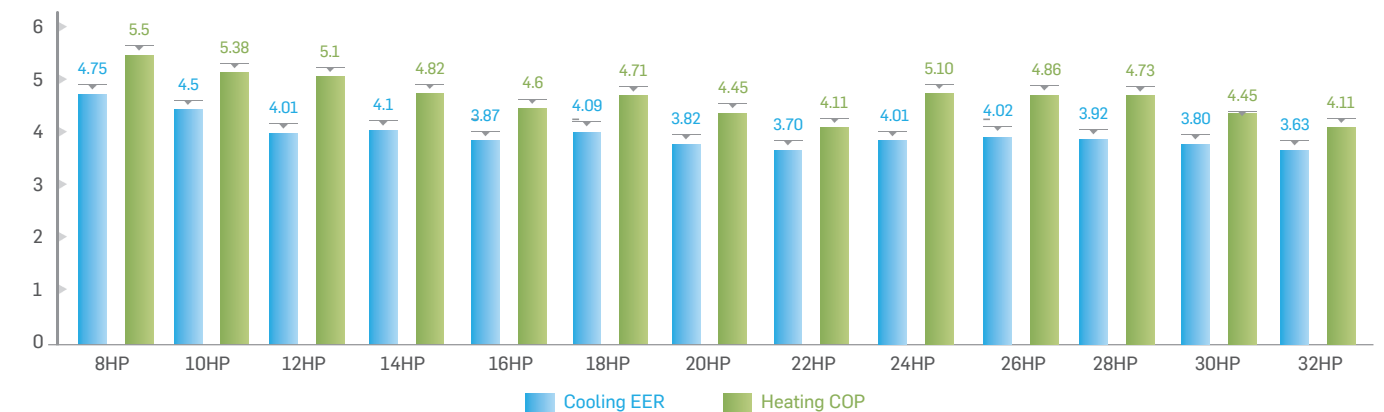
- 01 • Overview
- 02 • ZTVC
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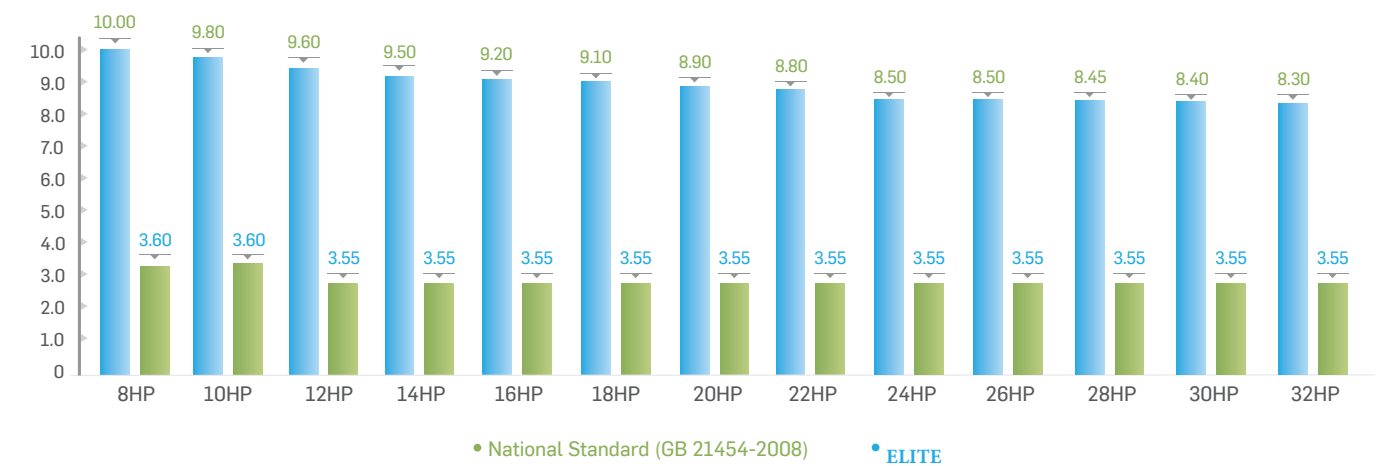
How To Read The Model Name



EER&COP



IPLV(C)



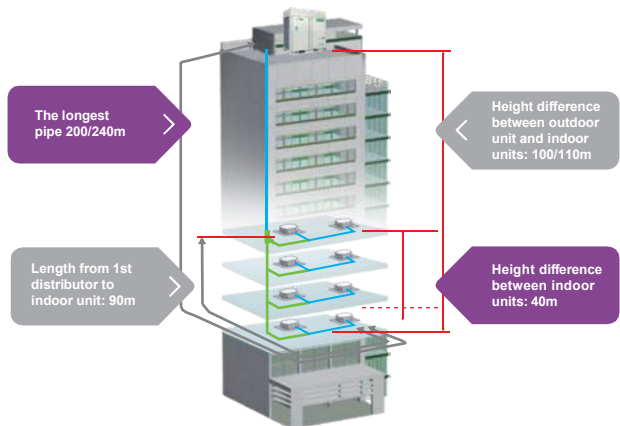
Combination Table

HP	Cooling Cap.(kW)	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP
8	25.2	●												
10	28		●											
12	33.5			●										
14	40				●									
16	45					●								
18	50						●							
20	56							●						
22	61.5								●					
24	67									●				
26	73										●			
28	78.5											●		
30	85												●	
32	90													●
34	95					●	●	●						
36	100						●	●	●					
38	106.5					●			●	●				
40	111.5						●		●	●				
42	117.5							●	●	●				
44	123								●	●				
46	128.5								●	●	●			
48	134									●	●			
50	140								●			●		
52	145.5									●		●		
54	152										●		●	
56	157											●		●
58	163										●		●	●
60	168.5											●		●
62	175												●	●
64	180												●	●
66	184.5								●	●				●
68	190								●	●				●
70	195.5									●				●
72	201.5								●	●				●
74	207						●			●				●
76	212.5								●	●				●
78	218.5								●	●				●
80	224									●				●
82	230										●			●
84	235.5											●		●
86	242											●		●
88	247											●		●
90	253										●			●
92	258.5											●		●
94	265												●	●
96	270													●

*Note:Max.4 outdoor units can be freely combined to become a larger unit, the maximum capacity of single system is 96HP, when 4 outdoor units are combined, the single unit capacity can not exceed 24HP.

Long Piping & Height Difference

The total pipe length	1000 m
The longest pipe length	200 /240m
Height difference	Outdoor unit above <100m Outdoor unit below <110m
Height difference between indoor units	40m
Length from first indoor distributor to last indoor unit	90 m
Communication wire length	can be up to 1000m.

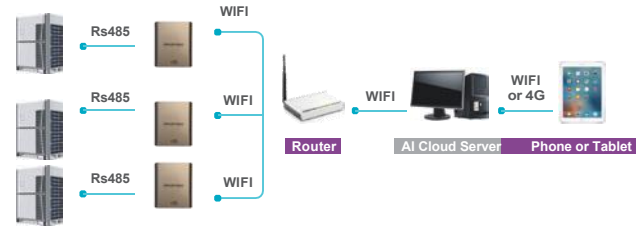


Features



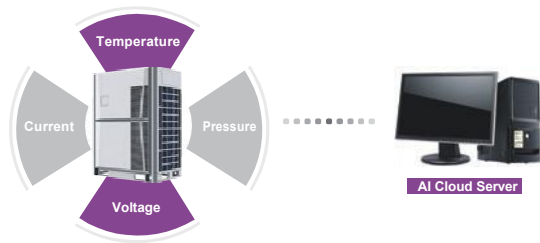
Long Distance Remote Control

Long distance remote control by phone or tablet.



Malfunction Forecasting

- Thanks to the AI cloud server, malfunction can be forecasted when system running parameter is abnormal.
- Technician can be sent to site to check the system before it stops.



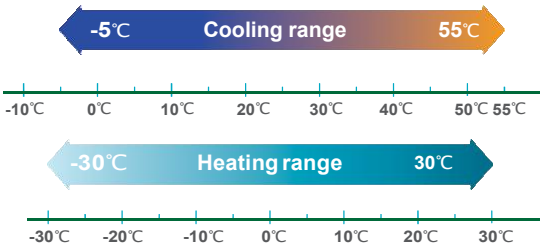
Refrigerant Cooling Design

We use refrigerant to cool down inverter modular board to keep it in a safe condition even when outdoor temperature is up to 55°C.



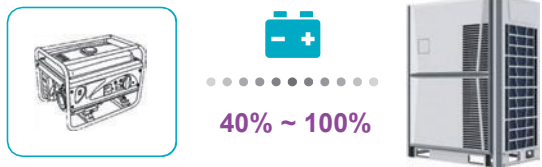
Wide Outdoor Operation Range

- Due to EVI technology, ZTVC heating performance increased by 35% compare to conventional VRF system.
- Due to EVI technology, ZTVC still has 85% of rated capacity even in -15°C.



Power Saving Mode

In the case of power shortage, ZTVC can run power saving mode to ease generator's pressure.



Refrigerant Status Detection

- Built-in with smart refrigerant auto check function, which can give suggestion about refrigerant status.
- Different code means different refrigerant status:

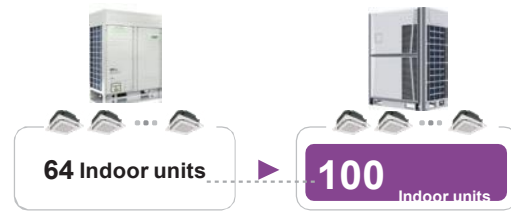


- 4 Extremely insufficient
- 12 Insufficient
- 11 Slightly insufficient
- 0 Normal
- 1 Slightly excess
- 2 Overmuch

Features

② More indoor units

Max. 100 Indoor units can be connect in ONE system.



🔒 Electrical Lock Function(optional)

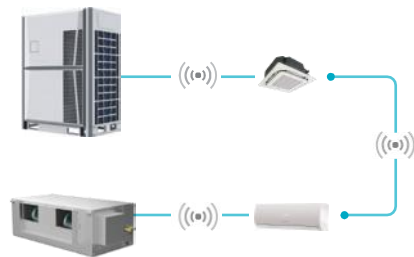


In case of end user doesn't pay as contract, electrical lock function can be used to stop VRF system, and end user can not start the system without permission.

System can be unlock with password by authorized technician.

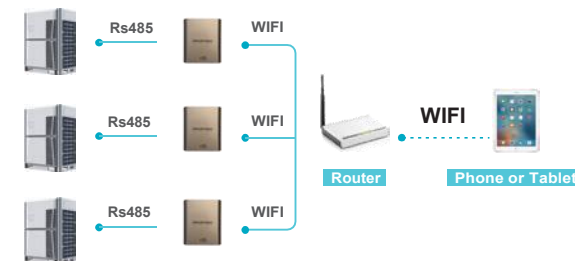
📶 Wireless Communication(optional)

Wireless communication between indoor units.
Wireless communication between indoor unit and outdoor unit.



👨‍🔧 On Site Diagnosis

Technician can do the commissioning & diagnosis by phone or tablet on site.



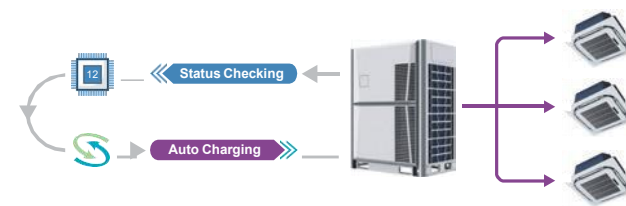
👉 Service Window On Front Cover

Thanks to the service window, checking outdoor units status and setting is now easy, no need to remove the front cover.



🔄 Auto Charging Refrigerant(optional)

ZTVC can customize with auto refrigerant charging function, additional solenoid valve will be added in gas pipe, and outdoor unit will control the valve to charge refrigerant.



🏠 Maximum 96HP



Max.3 outdoor units can be freely combined to become a larger unit. the maximum capacity of single system is 96HP.

*:when 4 outdoor units are combined, the single unit capacity can not exceed 24HP.

1 High Efficiency

2 Benefits For Users

3 Benefits For Installers

Advantages

Provide You With Fresh Air

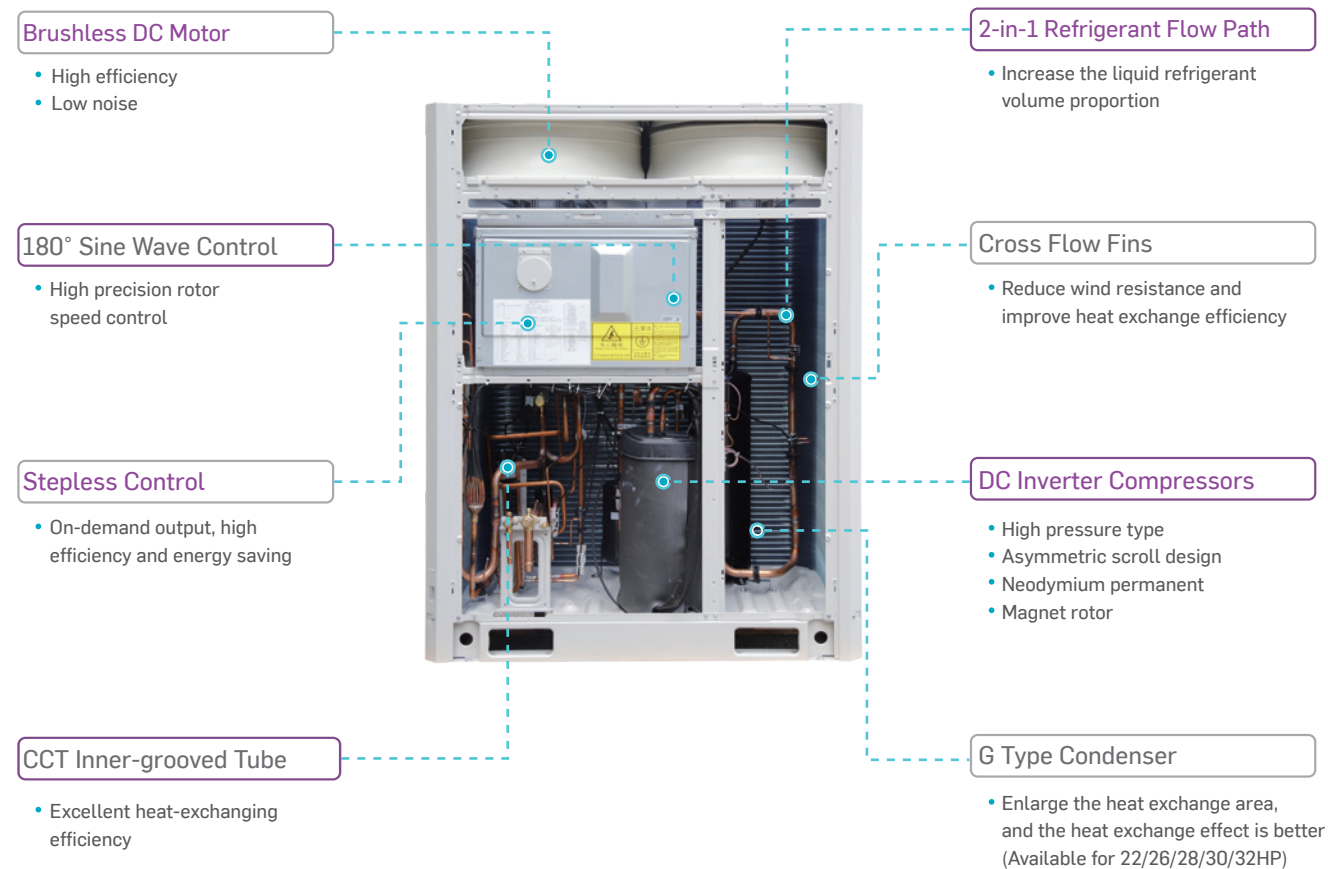
1

High Efficiency

Low carbon life advocate

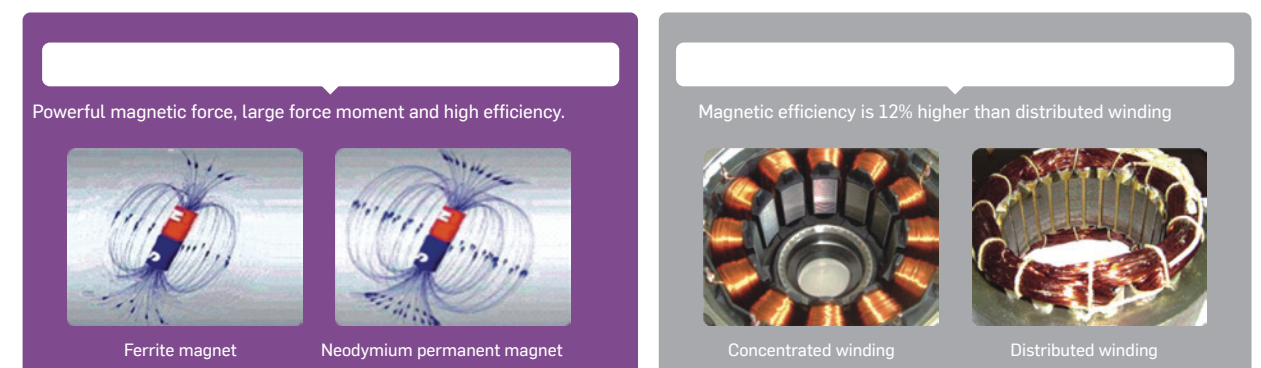
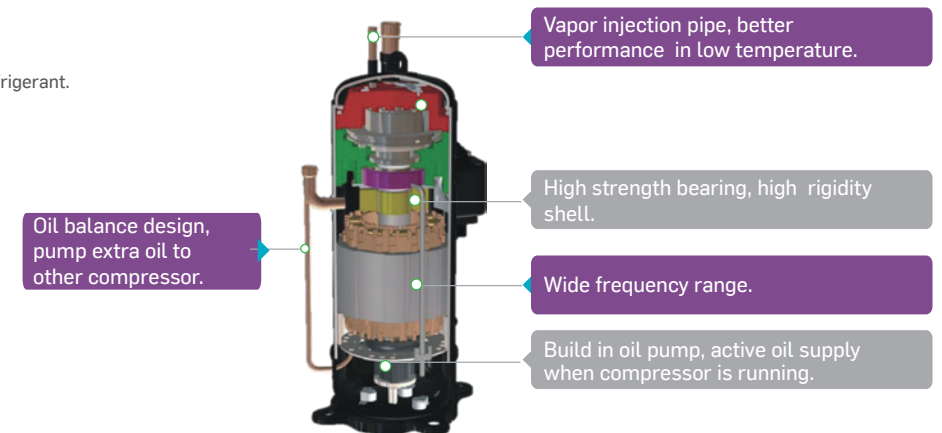
ELITE always focus on low-carbon energy-saving products development, and spare no effort for technological research and development, to become a practitioner and advocate of low-carbon technology!

Core Technologies Make High Efficiency



High Efficiency DC Inverter Compressor

- From Hitachi, famous inverter compressor manufacturer.
- R410a environmentally balanced refrigerant.
- Small torque fluctuation, low vibration and quiet operation.
- High efficiency due to its internal structure design.
- Internal oil circulation structure.
- High reliability.
- Wide rotation speed range.
- Neodymium permanent magnet rotor, has powerful magnetic force, large torque and high efficiency.
- Concentrated winding, improving low frequency efficiency.
- High pressure chamber
- Has small suction superheat and high refrigerant volume efficiency
- Has large refrigerant discharge buffer volume, low vibration and noise



High Efficiency DC Motor

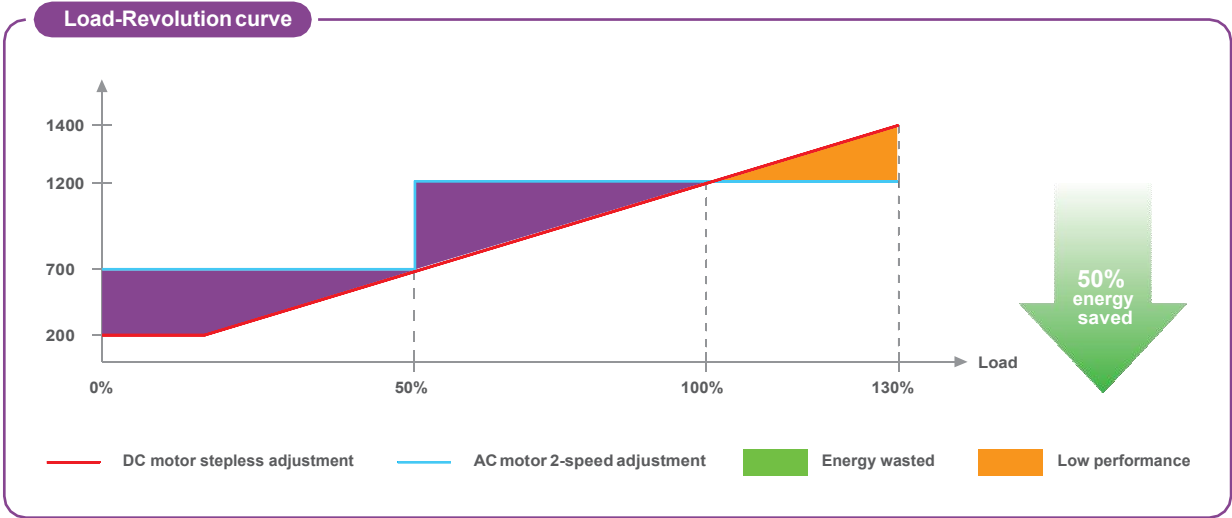
- High efficiency DC fan motor is from well-known brand.
- Low noise and high efficiency because of high-density wire winding engineering.
- Brushless with built-in sensor.



DC fan motor

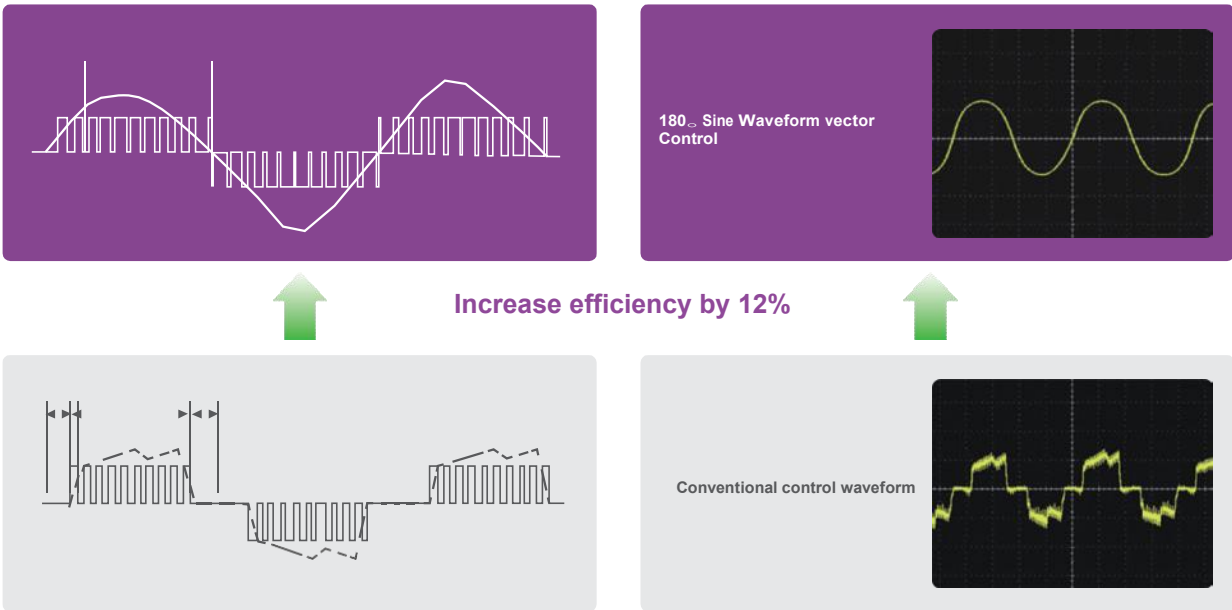
Stepless Control

DC fan motor can be stepless controlled by outdoor PCB according to system's operating pressure. And it is able to reduce the energy consumption and maintain the system in the best performance.



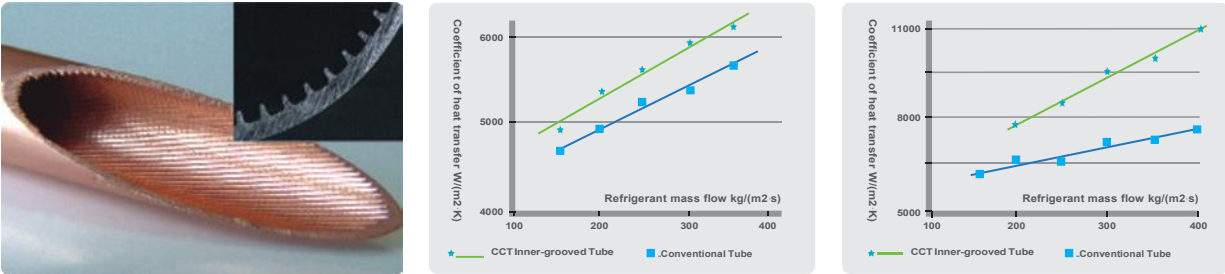
180° Sine Waveform Control

The perfect combination of 180° Sine waveform rotor frequency drive control technology and excellent IPM inverters, reduces the reactive loss of motor-driven, increases motor efficiency by 12%.

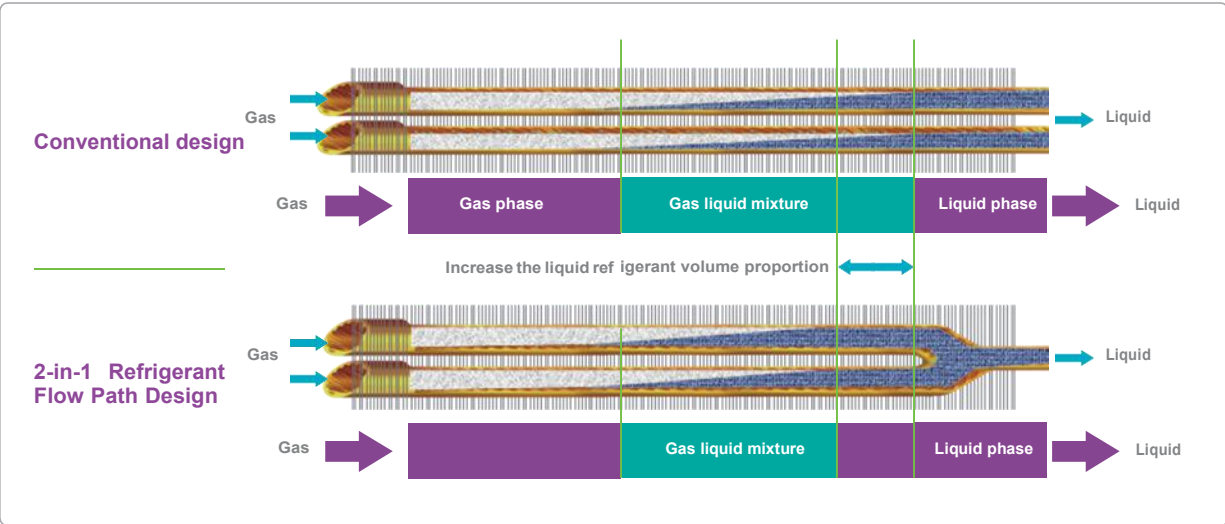
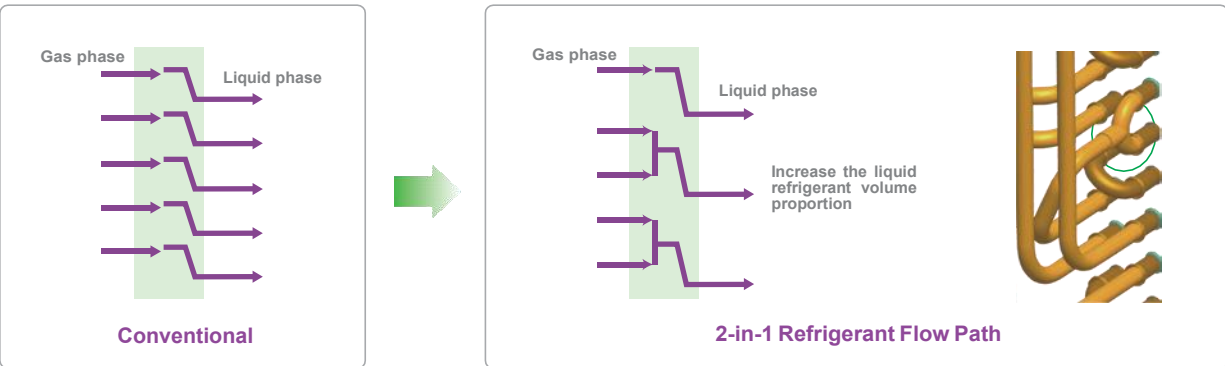


CCT Inner-grooved Tube

CCT (Continuous Cooling Transformation) inner-grooved copper tube has high thermometric conductivity. This inner-grooved fins break the refrigerant flow boundary layer to enhance refrigerant disturbance to increase heat-exchanging efficiency.

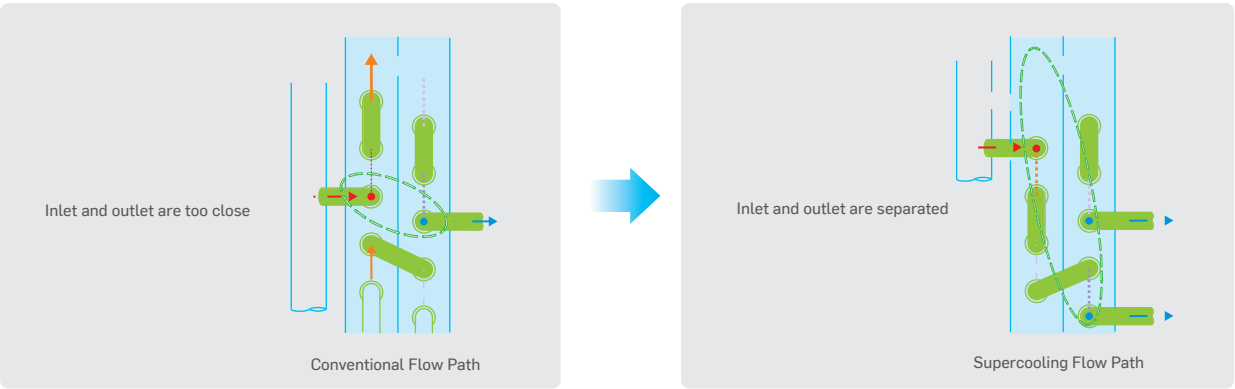


2-in-1 Refrigerant Flow Path Design



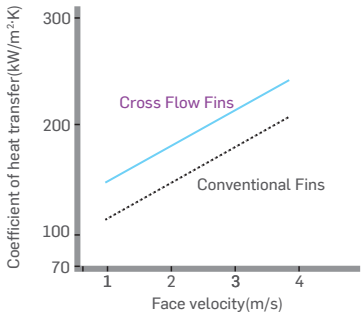
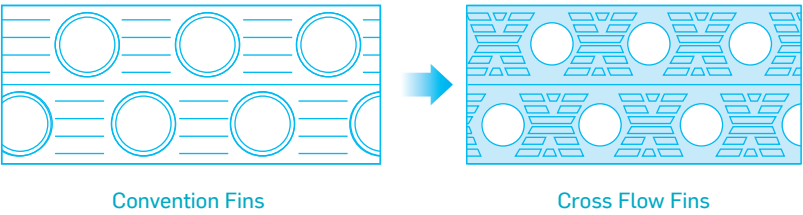
Supercooling Flow Path Design

Supercooling flow path design, separates the refrigerant inlet and outlet, increase the supercooling degree, reduce the effect of high temperature inlet gas refrigerant to low temperature outlet liquid refrigerant, therefore,the system efficiency will be greatly increased.



Cross Flow Fins

- Has low air resistance and great heat transfer coefficient.
- Frosting improved, frost on the heat-exchanger will be well-distributed, easyfor defrosting.



Low Resistance Internal Piping

- Thanks to the optimization pipeline design, 5% pressure drop are reduced.
- EER and COP increase, because of evaporating temperature increase and compressor work decrease.

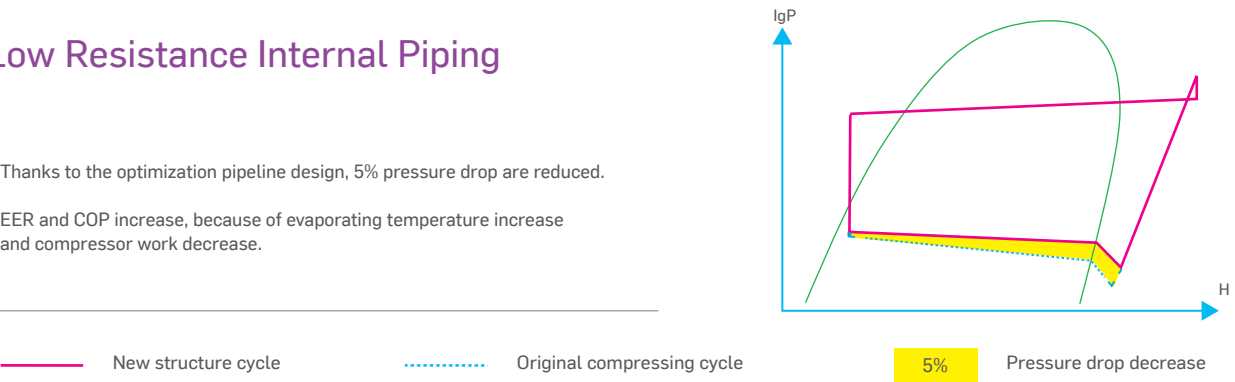
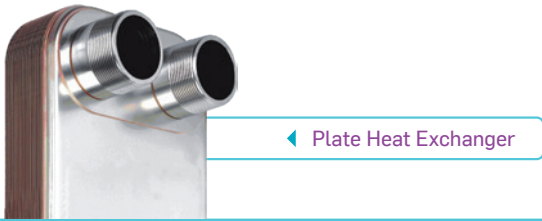


Plate Heat Exchanger

- Provides an additional sub cooling.
- Improved heat exchanger+Plate Heat Exchanger+Optimized control logic.
- Heating performance highly increased.



Benefits For Users

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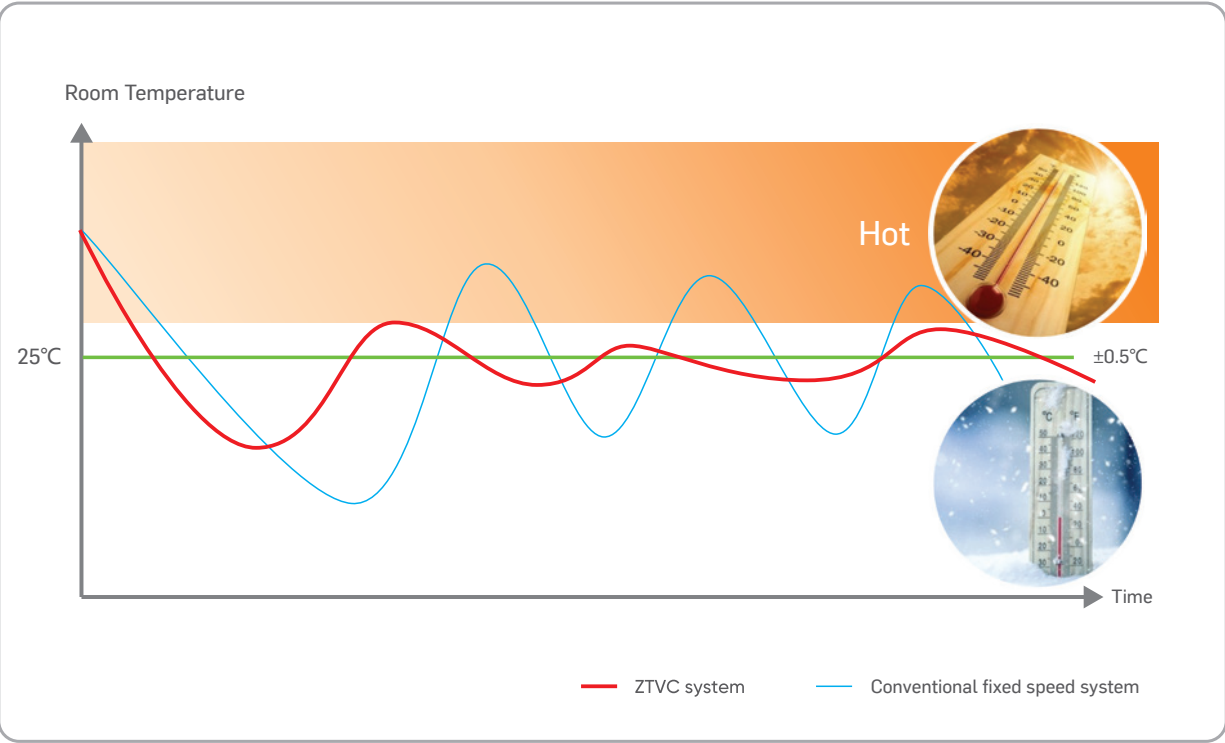
Livable environment provider

ELITE focuses on starting point of CAC system: provide a friendly, comfortable and pleasant living environment as always. DC inverter VRF system's comfort technologies include quick cooling and heating, precise temperature control, low noise, use environmental balanced refrigerant and so on, we strive to provide livable environment for users.....



Outstanding Comfort Ability

- ELITE VRF system have excellent cooling&heating performance, thanks to the high efficiency DC fan motor, DC compressor and optimized refrigerant flow control logic.
- Precisely room temperature control by adopting 2000 pulse EXV. Indoor temperature fluctuation can be maintain within 0.5°C, offers outstanding comfort ability.





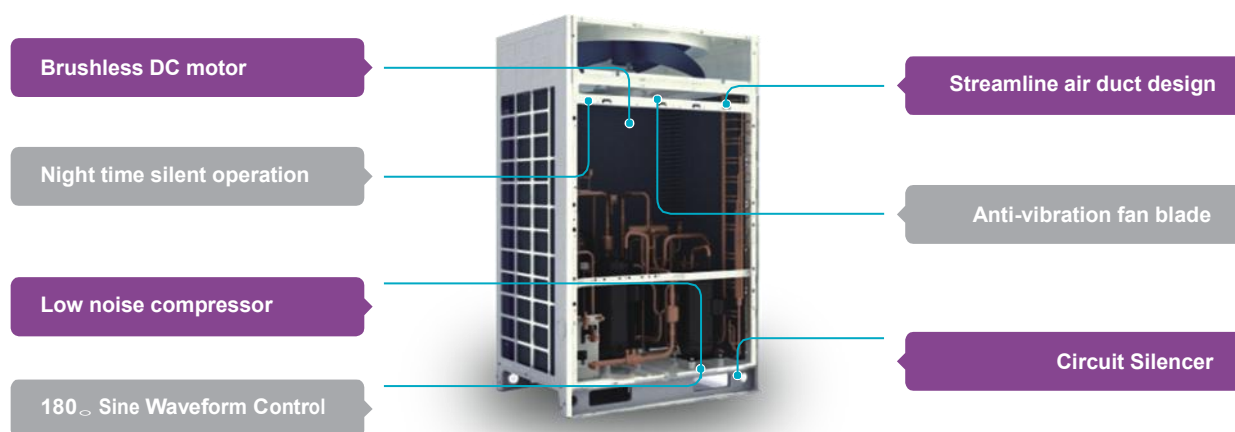
Wide Operation Range

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- Due to EVI technology, ZTVC still has 85% of rated capacity even in -15°C.



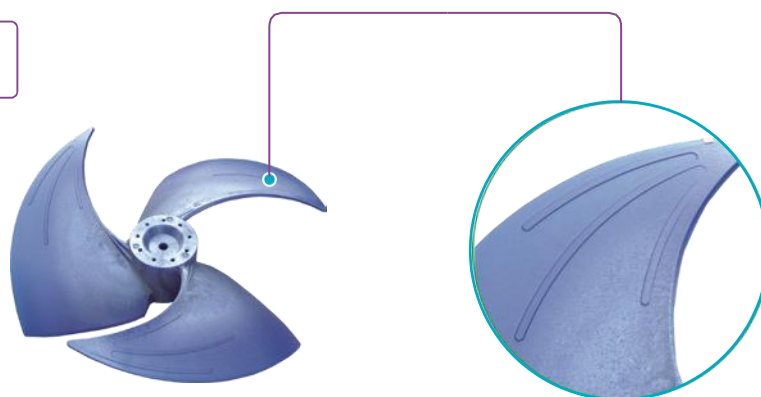
7 Improvements To Reduce Noise

- Maximum 10dB(A) of operating sound decrease.



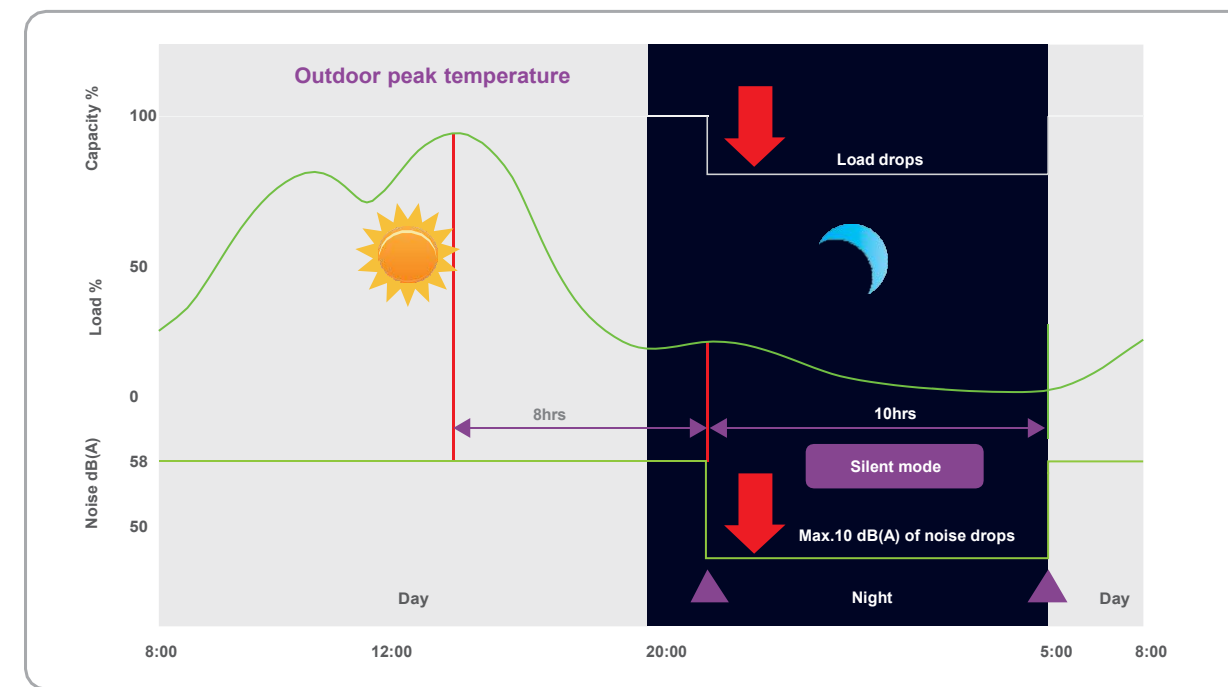
Low Noise Fan Blade

- Anti-vibration forward fan blade.
- Special design to reduce the air vibration and disturbance



Silent Mode, Night Time Noise Control

- Compressor and fan motor rotating speed can be reduced to lower the noise at night.
- Maximum 10dB(A) decrease.



Snow-proof Function

- In the cold weather, outdoor fan will start to run for a while at intervals, for preventing the snow to accumulate on fan blade. Because accumulated snow will freeze and block fan blade rotating, even worse it will damage the motor.

It only start when temperature is lower than 0°C.



The PHE Economizer

- PHE Economizer technology provide an additional sub cooling.
- Improved heat exchanger+PHE economizer+Optimized control logic.
- Heating performance highly increased.



◀ PHEconomizer

The PHE economizer need customization.



3-stage Back Up Function

Module back up function.

When some modules are failure, the others can keep running by simply settings.



Compressor back up function

When one compressor is failure, the other one can keep running by simply settings.

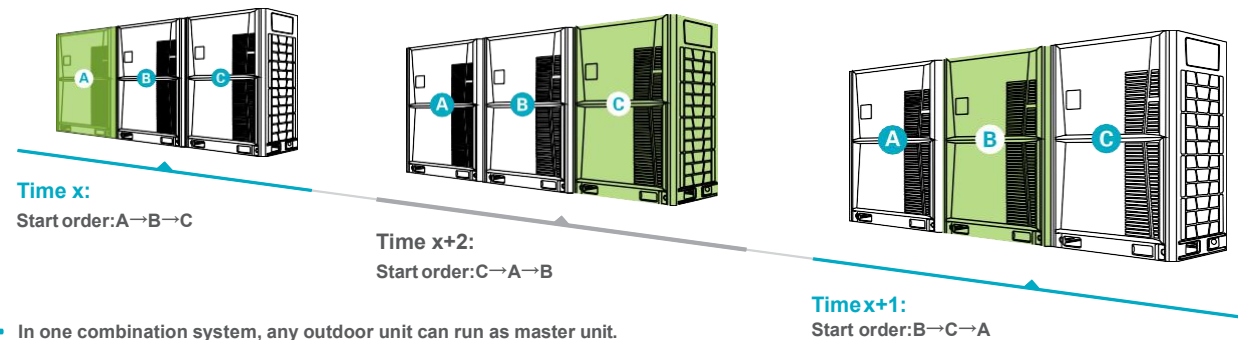


Fan motor back up function.

When one fan motor is failure, the other one can keep running by simply settings.



All Outdoor Units Cycle Operation



- In one combination system, any outdoor unit can run as master unit.
- Balance the lifespan among outdoor units in one system.

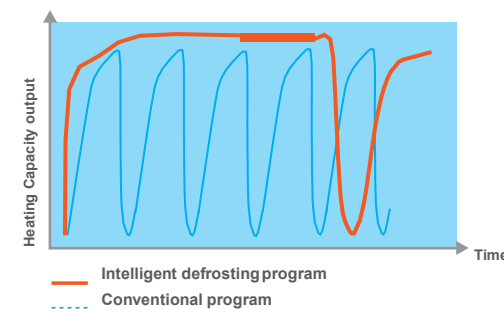


Intelligent Defrosting Program

Program starts only when unit needs to. Whereas conventional unit's defrosting timing & duration is fixed, causing fluctuations in temperature and personal comfort.

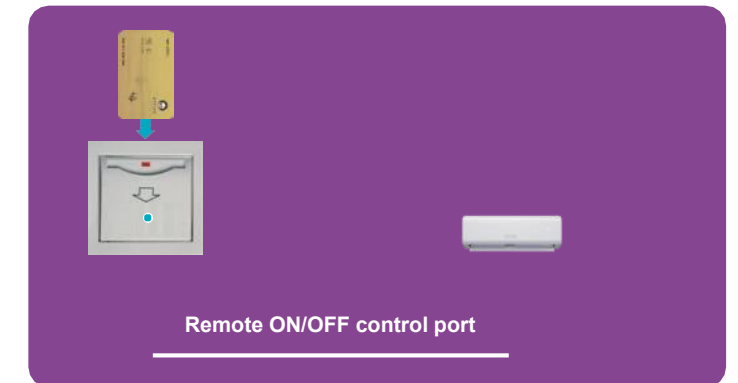
Defrost Curve

- Conventional unit's defrosting timing & duration is fixed
- Intelligent defrosting program starts according to heat exchanging efficiency & capacity change due to the frost. Less temperature fluctuations, people feel more comfortable



Remote ON/OFF Control Function

- Indoor units standard build in with ON/OFF control port.
- It can be used for hotel card control and also can be used for long distance remote ON/OFF control. And no need additional hotel VRF indoor unit control module.
- When contactor is open(card pulled out),indoor unit will be off can not be controlled, current running parameters will be saved in indoor PCB.
- When contactor is close(card insert),indoor unit will recover previous running state.



Emergency Stop Operation Function

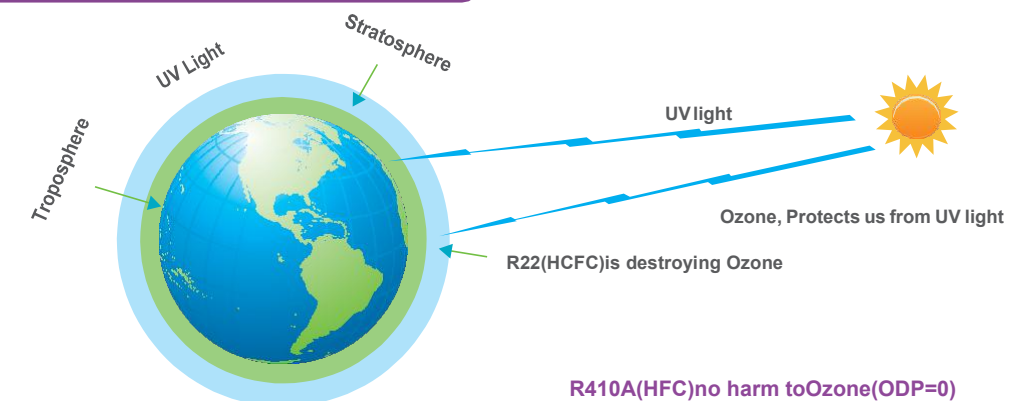
Outdoor unit have a fire alarm linkage signal control function. When emergency situation can stop the whole AC system.



Environment Friendly

Refrigerant R410A(HFC),low carbon footprint, no harm to Ozone.

R410A(HFC),low carbon footprint, no harm to Ozone.





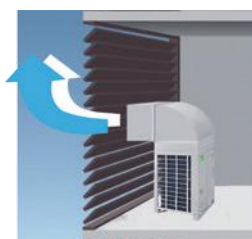
3 Benefits For Installers

Optimization for designer and installer

ZTVC DC inverter VRF system is designed with flexible modular combination concept, we keep optimizing the module size, reduce equipment on space occupied to meet the demand of designer and installer. Some unique technologies are used for our installers to reduce their working load, installation is becoming easier and easier!



Adjustable Outdoor Fan Static Pressure



- Thanks to DC fan motor, the external static pressure of outdoor fan is adjustable.
- Outdoor units can be installed in the service floor or facility room.
- Maximum ESP 85Pa.



Touch Screen Wired Controller



- Air filter cleaning reminding function.
- Touch screen with black background and white light
- Ultra thin body and stylish design meet high-end environments.
- On/off, temperature setting, fan speed setting, mode setting, timer and check function.



Addressing Methods

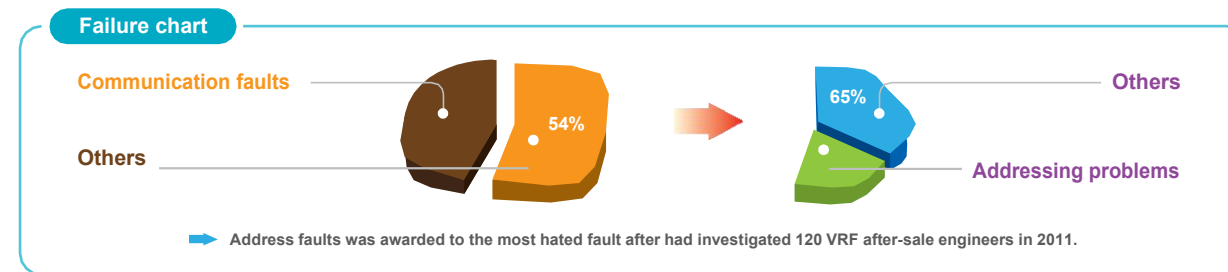


- 2 addressing methods:
 - Automatically addressing: system will distribute address to indoor unit automatically.
 - Manually setting by wireless remote controller.
- Addressing method can be selected easily by adjusting the switch on outdoor PCB.



Automatic Addressing

- Automatic addressing will reduce artificial faults by 35% and 5% manual works.
- 54% system failure were caused by communication faults.
- 65% communication faults were caused by address problems.
- Most of the address problems were: address setting forgotten, wrong settings, address repeat.





New Wired Controller

- Bidirectional communication. Indoor unit's operating parameters (error code, temperature, address) can be inquired and displayed on the controller.
- Compact design.
- Timer function.



Easy

Safe

Convenient





User can check the error code and inquiry unit status very easy, safe and convenient.



LED Display On The PCB

- LED display on the PCB, it can show system's operation status and error codes.



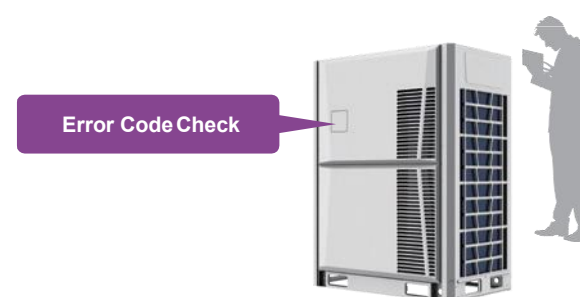
- Record error code list at main PCB chip, easy for service people to check.





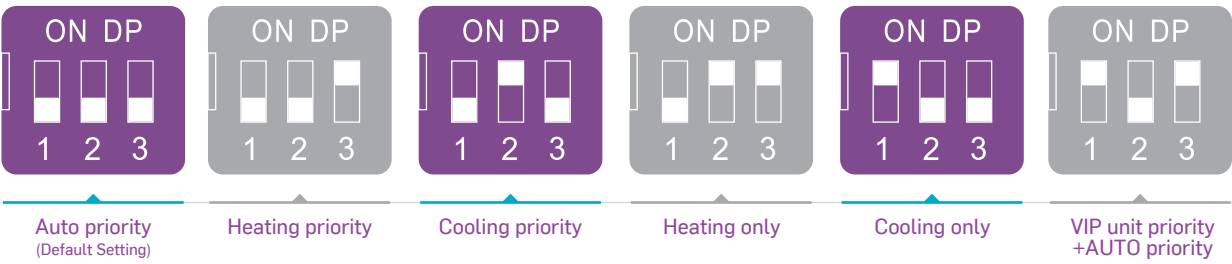
Service Window

Thanks to the service window, checking outdoor unit's status and setting is now easy, no need to remove the electric control box cover.

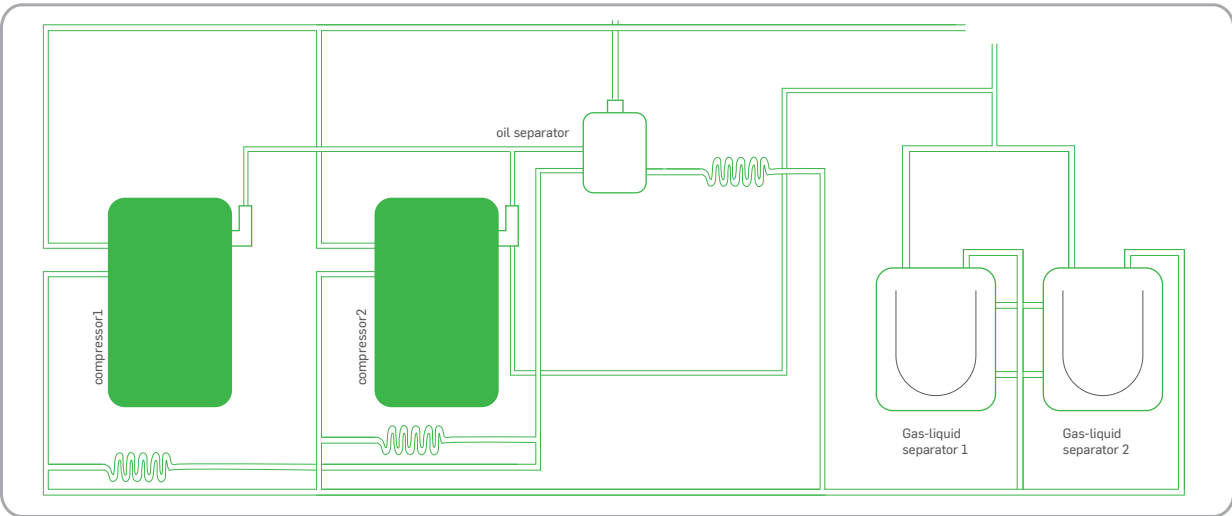
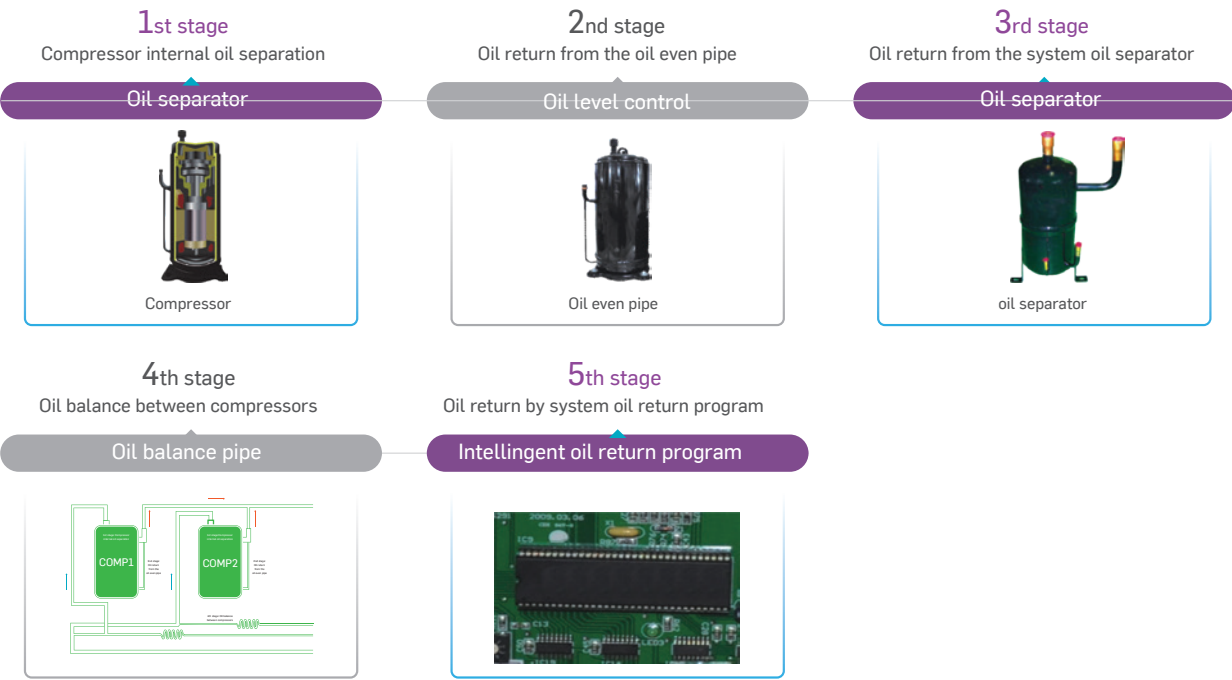


Mode Restriction

- 6 kinds of mode restriction
 - Auto priority(Default Setting)
 - Cooling(or heating)priority mode.
 - Cooling only(or heating only)mode.
 - VIP unit priority+AUTO priority mode
- Mode restriction function can be selected on the outdoor PCB.



5-Stage Oil Control

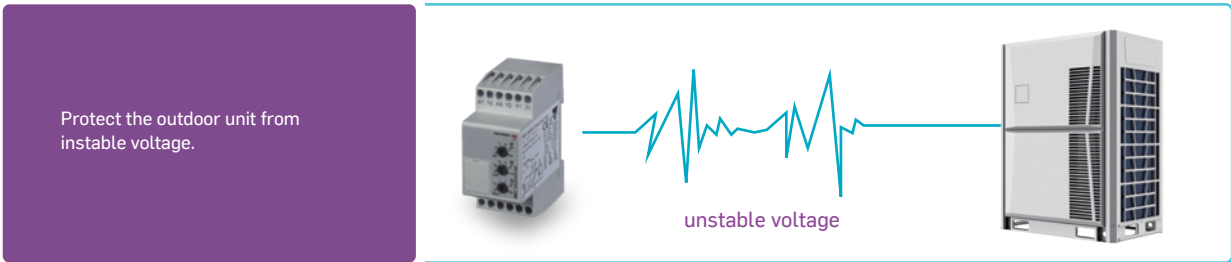


Humanized Internal Structure

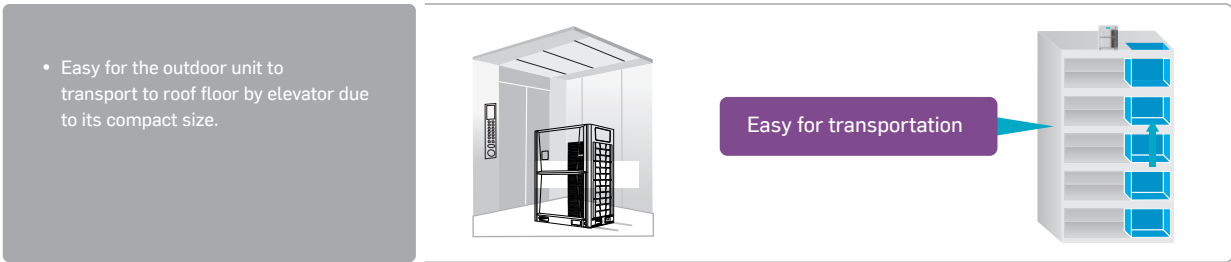


- All key components are designed to close to outside, it is convenient for repair and replacement.
- Thanks to the new balance technology, gas balance pipe does no longer exist, brazing points and leaking risk are decreased.

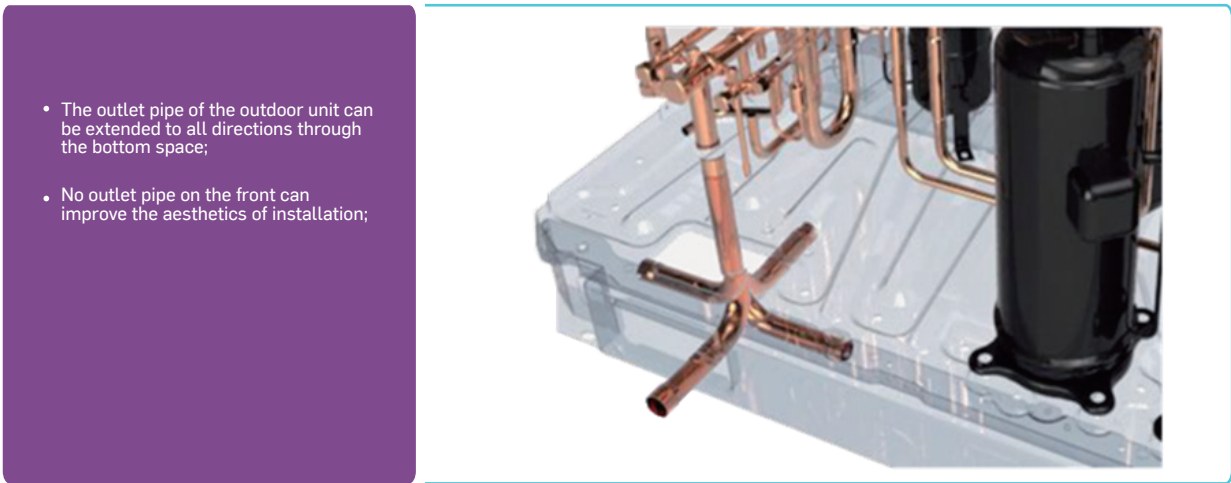
3-Phase Power Protector(Optional)



Easy Installation



360° Pipe Connection





380-415V/3N/50&60Hz

DC INVERTER EVI VRF SYSTEM(Scroll Compressor)

Model Name			ZTVC-CHT252DXP	ZTVC-CHT280DXP	ZTVC-CHT335DXP	ZTVC-CHT400DXP	ZTVC-CHT450DXP
Power Supply			380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz
Performance Data			▼	▼	▼	▼	▼
Cooling	Capacity	HP	8HP	10HP	12HP	14HP	16HP
		kW	25.2	28.0	33.5	40.0	45.0
		Btu/h	86000	95500	114000	136500	153500
		RT	7.2	8.0	9.5	11.4	12.8
	Rated current	A	9.04	11.30	14.51	18.10	21.60
	Power input	kW	5.31	6.22	8.35	9.76	11.63
	EER	W/W	4.75	4.50	4.01	4.10	3.87
Heating	Capacity	kW	27.4	31.5	37.5	45.0	50.0
		Btu/h	93500	107500	128000	153500	170600
		RT	7.8	9.0	10.7	12.8	14.2
	Rated current	A	8.93	11.25	14.34	18.00	20.25
	Power input	kW	4.98	5.86	7.35	9.34	10.87
COP		W/W	5.50	5.38	5.10	4.82	4.60
Max. input consumption		kW	13.4	14.3	14.8	18.3	18.8
Max. Current		A	23.1	24.7	25.5	30.8	31.7
Capacity adjustment range			50%~130%				
Compressor Data			▼	▼	▼	▼	▼
Compressor	Quantity		1				
	Type		Scroll Compressor				
	Brand		HITACHI				
Physical Data			▼	▼	▼	▼	▼
Refrigerant	Type		R410a				
	Volume	Kg	9	11	14		
	Throttle type		EXV				
Dimension (WxHxD)	Net	mm	990x1740x840			1340x1740x840	
	Packing	mm	1060x1900x910			1410x1900x910	
Weight	Net	Kg	228	230	275		
	Gross	Kg	240	242	293		
Outdoor sound level		dB(A)	58	60	60	61	
Max. operating range			4.5				
Piping Data			▼	▼	▼	▼	▼
Pipe size	Liquid pipe	mm	Φ12.7			Φ15.88	
	Gas pipe	mm	Φ22.2			Φ28.6	
Max. pipe length	Total pipe length	m	1000			1000	
	ODU to farthest IDU (Acutal length)	m	200			200	
	ODU to farthest IDU (Equivalent length)	m	240			240	
	1st IDU distributor to farthest IDU	m	40/90			40/90	
Max. vertical length	Between ODU & IDU (ODU above IDU)	m	100			100	
	Between ODU & IDU (ODUbelow IDU)	m	110			110	
	Between IDUs	m	40			40	
	Between ODUs	m	0			0	
Operation Temperature Range			▼	▼	▼	▼	▼
Cooling	Outdoor side	℃	-5~-55			-5~-55	
	Indoor side	℃	16~32			16~32	
Heating	Outdoor side	℃	-25~30			-25~30	
	Indoor side	℃	16~32			16~32	

Note

1. Cooling operating temperature range is from -5℃ to 55℃(It can be customized down to -10℃). Heating operating temperature range from -25℃ to 30℃.
2. The cooling conditions: indoor side 27℃(80.6°F) DB, 19℃(60°F)WB outdoor side 35℃(95°F) DB.
3. The heating conditions: indoor side 20℃(68°F) DB, 15℃(44.6°F)WB outdoor side 7℃(42.8°F) DB.
4. Sound level: measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
5. The above data may be changed without notice for future improvement on quality and performance.

ZTVC-CHT500DXP	ZTVC-CHT560DXP	ZTVC-CHT615DXP	ZTVC-CHT670DXP	ZTVC-CHT730DXP	ZTVC-CHT785DXP	ZTVC-CHT850DXP	ZTVC-CHT900DXP
380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz
▼	▼	▼	▼	▼	▼	▼	▼
18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP
50.0	56.0	61.5	67.0	73.0	78.5	85.0	90.0
170600	191000	209800	228600	249100	267800	290000	307100
14.2	16.0	17.5	19.1	20.8	22.3	24.2	25.6
23.29	26.10	29.06	29.09	32.59	36.13	40.36	44.73
12.22	14.66	16.62	16.71	18.18	20.03	22.37	24.79
4.09	3.82	3.70	4.01	4.02	3.92	3.80	3.63
56.0	63.0	69.0	75.0	81.5	87.5	95.0	100.0
191000	214900	235400	255900	278100	298600	324100	341200
16.0	18.0	19.7	21.3	23.2	24.9	27.0	28.4
22.61	25.70	28.40	28.65	30.28	33.38	38.52	43.90
11.89	14.16	16.80	14.72	16.78	18.50	21.35	24.33
4.71	4.45	4.11	5.10	4.86	4.73	4.45	4.11
22.0	24.4	25.0	26.2	30.1	30.7	35.8	37.7
37.4	41.1	42.1	43.2	50.8	51.8	60.4	63.6
50%~130%							
▼	▼	▼	▼	▼	▼	▼	▼
1		2					
Scroll Compressor			Scroll Compressor				
HITACHI			HITACHI				
▼	▼	▼	▼	▼	▼	▼	▼
R410a							
15	16	20	23				
EXV							
1340x1740x840			1990x1740x840				
1410x1900x910			2060x1900x910				
285	290	297	388	433	480		
303	308	315	406	452	498		
62	63		62	63	64		
4.5							
▼	▼	▼	▼	▼	▼	▼	▼
Φ15.88				Φ22.2			
Φ28.6				Φ35.0			
1000				1000			
200				200			
240				240			
40/90				40/90			
100				100			
110				110			
40				40			
0				0			
▼	▼	▼	▼	▼	▼	▼	▼
-5~55				-5~55			
16~32				16~32			
-25~30				-25~30			
16~32				16~32			

Model Name			ZTVC-CHT252DXPZ	ZTVC-CHT280DXPZ	ZTVC-CHT335DXPZ	ZTVC-CHT400DXPZ	ZTVC-CHT450DXPZ
Power Supply			380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz
Performance Data			▼	▼	▼	▼	▼
Cooling	Capacity	HP	8HP	10HP	12HP	14HP	16HP
		kW	25.2	28.0	33.5	40.0	45.0
		Btu/h	86000	95500	114000	136500	153500
		RT	7.2	8.0	9.5	11.4	12.8
	Rated current	A	10.20	11.80	15.50	18.20	21.60
	Power input	kW	5.50	7.00	9.20	10.80	12.80
	EER	W/W	4.64	4.07	3.64	3.70	3.52
Heating	Capacity	kW	27.0	31.5	37.5	45.0	50.0
		Btu/h	92100	107500	128000	153500	170600
		RT	7.7	9.0	10.7	12.8	14.2
	Rated current	A	10.00	11.60	15.40	18.00	21.00
	Power input	kW	5.75	6.90	9.10	10.60	12.50
COP		W/W	4.70	4.57	4.12	4.25	4.00
Max. input consumption		kW	13.96	13.96	13.96	17.83	18.80
Max. Current		A	24.0	24.0	24.0	29.0	31.7
Capacity adjustment range			50%~130%				
Compressor Data			▼	▼	▼	▼	▼
Compressor	Quantity		1				
	Type		Rotary Compressor				
	Brand		Mitsubishi				
Physical Data			▼	▼	▼	▼	▼
Refrigerant	Type		R410a				
	Volume	Kg	9	11	14		
	Throttle type		EXV				
Dimension (WxHxD)	Net	mm	990x1740x840			1340x1740x840	
	Packing	mm	1060x1900x910			1410x1900x910	
Weight	Net	Kg	205	210	250	250	
	Gross	Kg	217	222	268	268	
Outdoor sound level		dB(A)	58	58	60	60	
Max. operating range			4.5				
Piping Data			▼	▼	▼	▼	▼
Pipe size	Liquid pipe	mm	Φ12.7			Φ15.88	
	Gas pipe	mm	Φ22.2			Φ28.6	
Max. pipe length	Total pipe length	m	1000			1000	
	ODU to farthest IDU (Acutal length)	m	200			200	
	ODU to farthest IDU (Equivalent length)	m	240			240	
	1st IDU distributor to farthest IDU	m	40/90			40/90	
Max. vertical length	Between ODU & IDU (ODU above IDU)	m	100			100	
	Between ODU & IDU (ODUbelow IDU)	m	110			110	
	Between IDUs	m	40			40	
	Between ODUs	m	0			0	
Operation Temperature Range			▼	▼	▼	▼	▼
Cooling	Outdoor side	℃	-5~55			-5~55	
	Indoor side	℃	16~32			16~32	
Heating	Outdoor side	℃	-15~30			-15~30	
	Indoor side	℃	16~32			16~32	

Note

1. Cooling operating temperature range is from -5℃ to 55℃ (It can be customized down to -10℃). Heating operating temperature range is from -15℃ to 30℃.

2. The cooling conditions: indoor side 27℃(80.6°F) DB, 19℃(60°F)WB outdoor side 35℃(95°F) DB.

3. The heating conditions: indoor side 20℃(68°F) DB, 15℃(44.6°F)WB outdoor side 7℃(42.8°F)DB.

4. Sound level: measured at a point 1 m in front of the unit at a height of 1.5 m. During actual operation, these values are usually somewhat higher as a result of ambient conditions.

5. The above data may be changed without notice for future improvement on quality and performance.

ZTVC-CHT500DXPZ	ZTVC-CHT560DXPZ	ZTVC-CHT615DXPZ	ZTVC-CHT670DXPZ	ZTVC-CHT730DXPZ	ZTVC-CHT800DXPZ	ZTVC-CHT850DXPZ
380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz
▼	▼	▼	▼	▼	▼	▼
18HP	20HP	22HP	24HP	26HP	28HP	30HP
50.0	56.0	61.5	67.0	73.0	80.0	85.0
170600	191000	209800	228600	249000	272900	290000
14.2	16.0	17.5	19.1	20.9	22.7	24.2
24.80	29.60	31.50	36.70	34.60	36.90	46.70
14.70	17.60	18.70	21.74	20.54	25.50	27.71
3.40	3.18	3.29	3.08	3.55	3.14	3.07
56.0	63.0	69.0	75.0	81.5	88.0	95.0
191000	214900	235400	255800	278100	300300	324100
16.0	18.0	19.7	21.4	23.3	25.1	27.0
24.10	29.10	30.80	30.30	35.40	37.70	46.50
14.30	17.20	18.20	17.94	20.96	24.10	27.60
3.92	3.66	3.79	4.18	3.89	3.65	3.44
22.0	24.4	25.0	27.6	35.3	35.3	37.6
37.4	41.1	43.1	45.4	59.6	59.6	63.4
50%~130%						
▼	▼	▼	▼	▼	▼	▼
2						
Rotary Compressor						
Mitsubishi						
▼	▼	▼	▼	▼	▼	▼
R410a						
15	16	20	23			
EXV						
1340x1740x840			1990x1740x840			
1410x1900x910			2060x1900x910			
300	309	352	412	452		
310	319	370	430	470		
62	63		65	66		
4.5						
▼	▼	▼	▼	▼	▼	▼
	Φ15.88			Φ22.2		
	Φ28.6			Φ35.0		
	1000			1000		
	200			200		
	240			240		
	40/90			40/90		
	100			100		
	110			110		
	40			40		
	0			0		
▼	▼	▼	▼	▼	▼	▼
	-5~55			-5~55		
	16~32			16~32		
	-15~30			-15~30		
	16~32			16~32		

Model Name			ZTVC-CCT252DXP	ZTVC-CCT280DXP	ZTVC-CCT335DXP	ZTVC-CCT400DXP	ZTVC-CCT450DXP
Power Supply			380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz
Performance Data							
Cooling	Capacity	HP	8HP	10HP	12HP	14HP	16HP
		kW	25.2	28.0	33.5	40.0	45.0
		Btu/h	86000	95500	114000	136500	153500
		RT	7.2	8.0	9.5	11.4	12.8
	Power input	kW	5.86	6.79	9.18	10.50	12.20
	EER	W/W	4.30	4.12	3.65	3.80	3.68
Rated. input consumption		kW	13.90	14.10	14.60	17.96	18.34
Rated. current		A	24.0	24.5	25.2	30.2	31.0
Capacity adjustment range			50%~130%				
Compressor Data							
DC Inverter compressor	Quantity		1				
	Type		DC /Twin-rotary				
	Brand		Mitsubishi				
	Frequency range	Hz	10~120				
Physical Data							
Refrigerant	Type		R410a				
	Volume	Kg	10		12.5		
Dimension (DxHxW)	Net	mm	840x1740x990			840x1740x1340	
	Packing	mm	910x1900x1060			910x1900x1410	
Weight	Net	Kg	210			260	
	Gross	Kg	220			278	
Outdoor sound level		dB(A)	58		60		61
Maximum operating pressure		MPa	4.5				
Piping & Wiring Data							
Pipe size	Liquid pipe	mm	Φ12.7			Φ15.9	
	Gas pipe	mm	Φ22.2			Φ28.6	
Max. pipe length	Total pipe length	m	1000				
	From OUto farthest IU(Actual length)	m	200				
	From OUto farthest IU (Equivalent length)	m	240				
	From 1st indoor distributor to farthest IU	m	90				
Max. Vertical length	Between OU & IU (OU above IU)	m	100				
	Between OU & IU (OU below IU)	m	110				
	Between IUs	m	40				
	Between Ous	m	0				
Operation Temperature Range							
Cooling	Outdoor side	℃	-5~55				
	Indoor side	℃	16~32				

Note

*The above data may be changed without notice for future improvement.

ZTVC-CCT500DXP	ZTVC-CCT560DXP	ZTVC-CCT615DXP	ZTVC-CCT670DXP	ZTVC-CCT730DXP	ZTVC-CCT800DXP	ZTVC-CCT850DXP
380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz
▽	▽	▽	▽	▽	▽	▽
18HP	20HP	22HP	24HP	26HP	28HP	30HP
50.0	56.0	61.5	67.0	73.0	80.0	85.0
170600	191000	209800	228600	249100	273038	290000
14.2	16.0	17.5	19.1	20.8	22.8	24.2
15.10	17.60	20.36	20.81	23.10	25.97	29.11
3.31	3.18	3.02	3.22	3.16	3.08	2.92
18.74	25.90	27.80	29.50	32.00	32.00	36.50
32.0	46.6	47.5	51.0	53.0	53.0	63.0
50%~130%						
▽	▽	▽	▽	▽	▽	▽
1	2					
DC /Twinrotary						
Mitsubishi						
10~120						
▽	▽	▽	▽	▽	▽	▽
R410a						
12.5	16.5		18.0	20.0		25.0
840x1740x1340				840x1740x1990		
910x1900x1410				910x1900x2060		
260	298		306	358		410
278	316		324	376		428
62	63		65	66		67
4.5						
▽	▽	▽	▽	▽	▽	▽
Φ15.9						Φ22.2
Φ28.6						Φ35
1000						
200						
240						
90						
100						
110						
40						
0						
▽	▽	▽	▽	▽	▽	▽
-5~55						
16~32						

Model Name			ZTVC-CHT252CY	ZTVC-CHT280CY	ZTVC-CHT335CY	ZTVC-CHT400CY
Power Supply			208~230V/3N/60Hz	208~230V/3N/60Hz	208~230V/3N/60Hz	208~230V/3N/60Hz
Performance Data						
Cooling	Capacity	HP	8HP	10HP	12HP	14HP
		kW	25.2	28.0	33.5	40.0
		Btu/h	85000	93800	114000	136500
		RT	7.1	7.9	9.5	11.4
	Power input	kW	5.28	6.25	7.86	9.33
	EER	W/W	4.77	4.48	4.26	4.29
Heating	Capacity	kW	27.4	31.5	37.5	45
		Btu/h	93500	107500	128000	153500
		RT	7.8	9	10.7	12.8
	Power input	kW	5.46	6.58	8.61	9.32
	EER	W/W	5.02	4.79	4.36	4.83
Capacity adjustment range			50%-130%			
Compressor Brand	Brand	A				
	Quantity		1			
Compressor	Type		DC /Scroll			
	Brand		Mitsubishi			
Physical Data						
Refrigerant type/volume		kg	8		12	
Dimension (DxHxW)	Net	mm	R410A/12			R410A/16
	Packing	mm	840x1740x990			840x1740x1340
Weight	Net	kg	910x1900x1060			910x1900x1410
	Gross	kg	220			275
Outdoor sound level		dB(A)	230			290
Maximum operating pressure		MPa	67			71
Piping Data			4.5			
Pipe size	Liquid pipe	mm	Ø12.7			Ø15.9
	Gas pipe	mm	Ø22.2			Ø28.6
Max. pipe length	Total pipe length	m	1000			
	From OUto farthest IU(Actual length)	m	190			
	From OUto farthest IU (Equivalent length)	m	220			
	From 1st indoor distributor to farthest IU	m	40			
Max. Vertical length	Between OU & IU (OU above IU)	m	90			
	Between OU & IU (OU below IU)	m	110			
	Between IUs	m	30			
	Between Ous	m	0			
Operation Temperature Range			0			
Cooling	Outdoor side	°C	-5~55			
	Indoor side	°C	17~32			
Heating	Outdoor side	°C	-15~30			
	Indoor side	°C	15~30			

Note

*The above data may be changed without notice for future improvement.

ZTVC-CHT450CY	ZTVC-CHT500CY	ZTVC-CHT560CY	ZTVC-CHT615CY
208~230V/3N/60Hz	208~230V/3N/60Hz	208~230V/3N/60Hz	208~230V/3N/60Hz
▽	▽	▽	▽
16HP	18HP	20HP	22HP
45.0	50.0	56.0	61.5
153500	169000	191000	209800
12.8	14.1	16	17.5
11.12	12.68	15.32	17.62
4.05	3.94	3.66	3.49
50	56	63	69
170600	191000	214900	235400
14.2	16	18	19.7
10.59	12.54	14.88	17.52
4.72	4.47	4.23	3.94
50%~130%			
▽	▽	Mitsubishi	▽
1	2		
DC /Scroll			
Mitsubishi			
12	▽	14	▽
13	▽	14	▽
15	▽	15	▽
R410A/16	R410A/20		
840x1740x1340			
910x1900x1410			
275	325		
290	340		
71	72		
4.5			
▽	▽	▽	▽
Ø15.9			
Ø28.6			
1000			
190			
220			
40			
90			
110			
30			
0			
▽	▽	▽	▽
-5~55			
17~32			
-15~30			
15~30			

Model Name			ZTVC-CCT252CYP	ZTVC-CCT280CYP	ZTVC-CCT335CYP	ZTVC-CCT400CYP
Power Supply			208~230V/3N/60Hz	208~230V/3N/60Hz	208~230V/3N/60Hz	208~230V/3N/60Hz
Performance Data						
Cooling	Capacity	HP	8HP	10HP	12HP	14HP
		kW	25.2	28.0	33.5	40.0
		Btu/h	86000	95500	114000	136500
		RT	7.2	8.0	9.5	11.4
	Power input	kW	5.82	6.81	9.05	10.47
	EER	W/W	4.33	4.11	3.70	3.82
Rated. input consumption		kW	13.50	14.10	14.20	16.90
Rated. current		A	40.0	42.0	45.0	50.0
Capacity adjustment range			50%~130%			
Compressor Data						
DC Inverter compressor	Quantity		1			
	Type		DC /Twin-rotary			
	Brand		Mitsubishi			
	Frequency range	rps	10-120			
Physical Data						
Refrigerant	Type		R410a			
	Volume	Kg	8		12	
Dimension (DxHxW)	Net	mm	840x1740x990		840x1740x1340	
	Packing	mm	910x1900x1060		910x1900x1410	
Weight	Net	Kg	208		260	
	Gross	Kg	218		278	
Outdoor sound level		dB(A)	58		60	
Maximum operating pressure		MPa	4.5			
Piping & Wiring Data						
Pipe size	Liquid pipe	mm	Φ12.7		Φ15.9	
	Gas pipe	mm	Φ25.4		Φ31.8	
Max. pipe length	Total pipe length	m	1000			
	From OUto farthest IU(Actual length)	m	190			
	From OUto farthest IU (Equivalent length)	m	220			
	From 1st indoor distributor to farthest IU	m	90			
Max. Vertical length	Between OU & IU (OU above IU)	m	90			
	Between OU & IU (OU below IU)	m	110			
	Between IUs	m	30			
	Between Ous	m	0			
Operation Temperature Range						
Cooling	Outdoor side	℃	-5~50			
	Indoor side	℃	16~32			

Note

*The above data may be changed without noitce for future improvement.

ZTVC-CCT450CYP	ZTVC-CCT500CYP	ZTVC-CCT560CYP	ZTVC-CCT615CYP	ZTVC-CCT670CYP
208~230V/3N/60Hz	208~230V/3N/60Hz	208~230V/3N/60Hz	208~230V/3N/60Hz	208~230V/3N/60Hz
▽	▽	▽	▽	▽
16HP	18HP	20HP	22HP	24HP
45.0	50.0	56.0	61.5	67.0
153500	170600	191000	209800	228600
12.8	14.2	16.0	17.5	19.0
12.13	14.62	17.13	19.84	22.11
3.71	3.42	3.27	3.10	3.03
17.30	24.00	26.50	27.00	27.00
53.0	70.0	78.0	80.0	80.0
50%~130%				
▽	▽	▽	▽	▽
1	2			
DC /Twin-rotary				
Mitsubishi				
10~120				
▽	▽	▽	▽	▽
R410a				
12	13	14	14	15
840x1740x1340				
910x1900x1410				
260	288	296	296	306
278	306	314	314	324
61	62	63	63	63
4.5				
▽	▽	▽	▽	▽
Φ15.9				
Φ31.8				
1000				
190				
220				
90				
90				
110				
30				
0				
▽	▽	▽	▽	▽
-5~50				
16~32				

Mini VRF

Small Capacity Full DC
Inverter VRF Unit

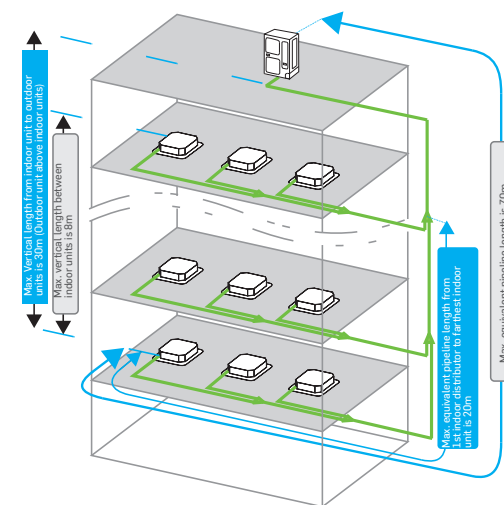


Features

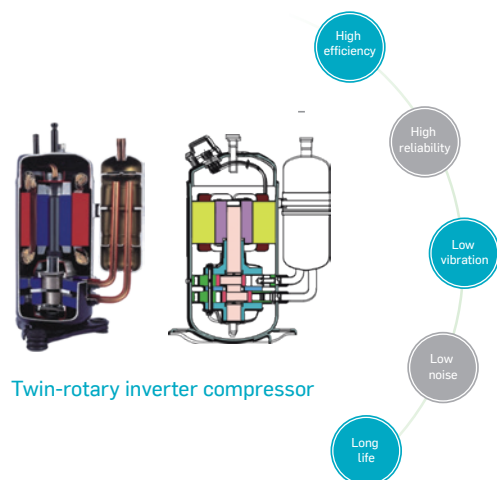
Long Refrigerant Piping

The total pipe length	100m(8-22.4kW), 120m(26-33.5kW)
The longest pipe length	Actual length 60m Equivalent length 70m
Equivalent length from first indoor distributor to last indoor unit	20m
Height difference between indoor and outdoor unit:	Outdoor unit above ≤30m Outdoor unit below ≤20m
Height difference between indoor units	8m

*Please refer to the installation manual for detailed length description.



High Efficiency DC Inverter Compressor



Twin-rotary inverter compressor

Twin-rotary DC inverter compressor

- Use high efficiency and reliability compressor
- Has very good efficiency in part load condition

High Efficiency, Low Noise

- Optimized the efficiency and noise during operation with the latest technology.

Environmental Protection

- Developed the compressor with alternative refrigerant which can protect environment.

Low Vibration

- Reduced the vibration during compressor start and operation by using 2CYL Structure, simplified the match of air-conditioning.

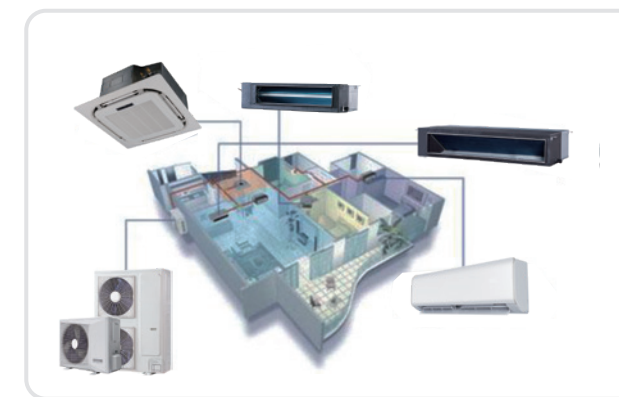
High Efficiency DC Motor



- ♦ High efficiency DC fan motor
- ♦ Low noise and high efficiency because of high-density wire winding engineering
- ♦ Brushless with built-in sensor

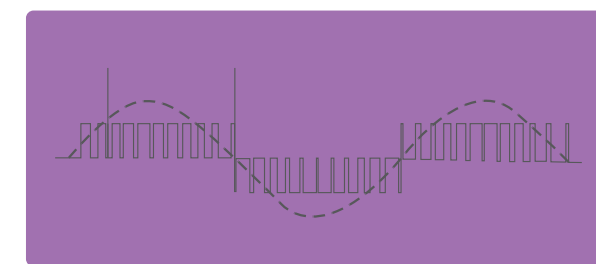
Space Saving Installation

- Multiple indoor units can be connected to 1 outdoor unit, and long piping connection is also possible.
- Compare to one-drive-one type, the outdoor unit can be installed in various places to realize the space-saving installation.

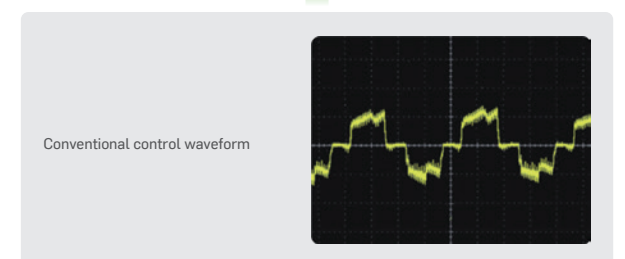
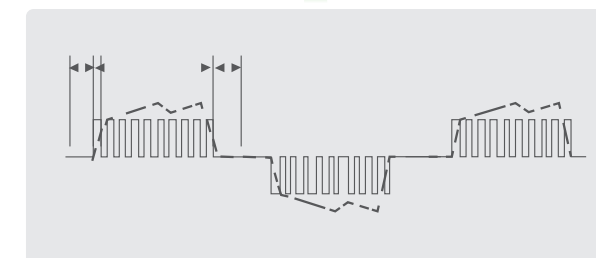
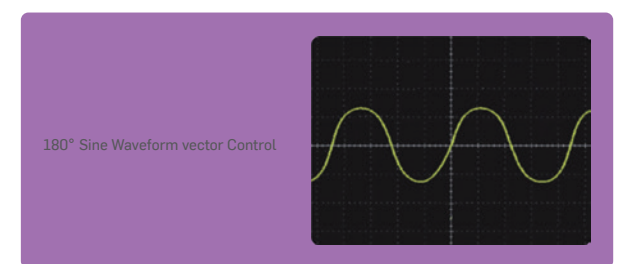


180° Sine Wave Control

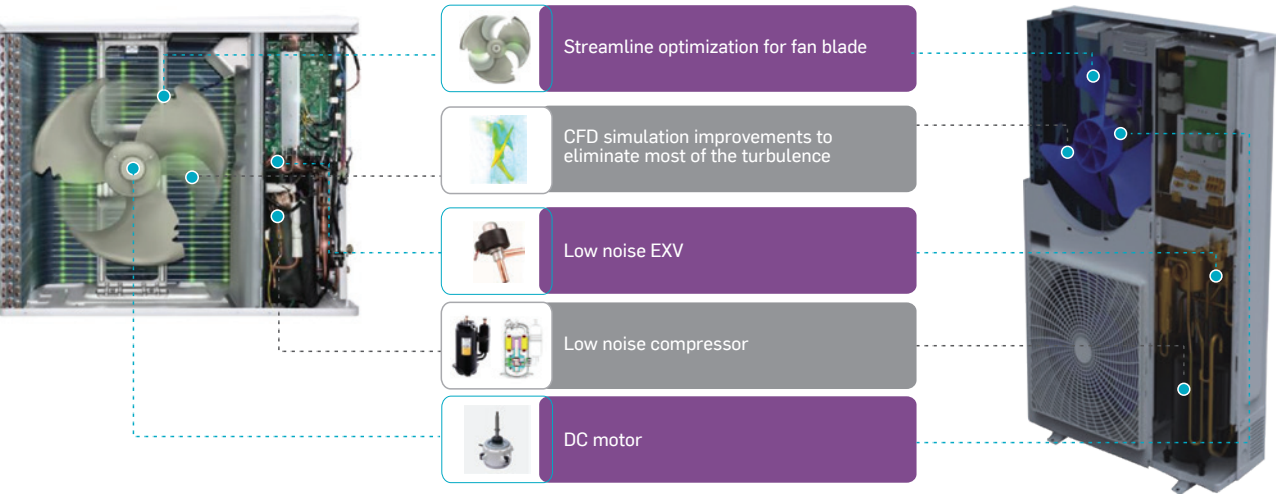
The perfect combination of 180° Sine wave rotor frequency drive control technology and excellent IPM inverters, reduces the reactive loss of motor-driven, increases motor efficiency by 12%.



Increase efficiency by 12%

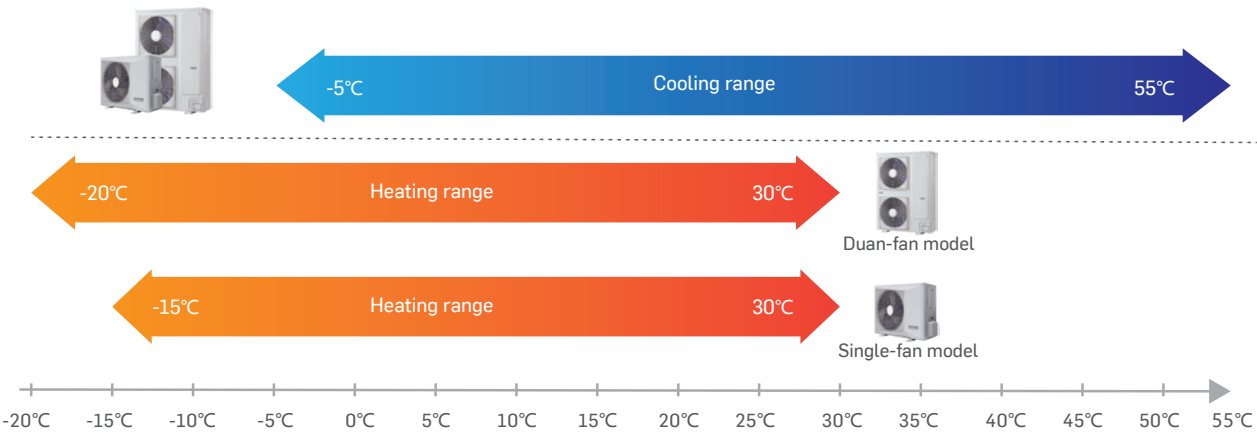


Low Noise



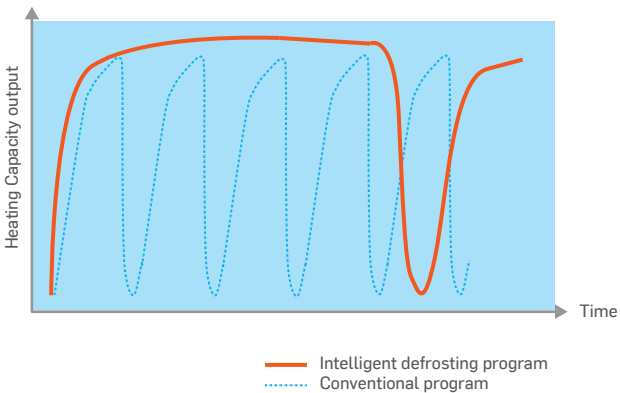
Wide Outdoor Operation Range

Max. cooling operating temperature is designed up to 55°C. Heating operating temperature is down to -20°C.



Intelligent Defrosting Program

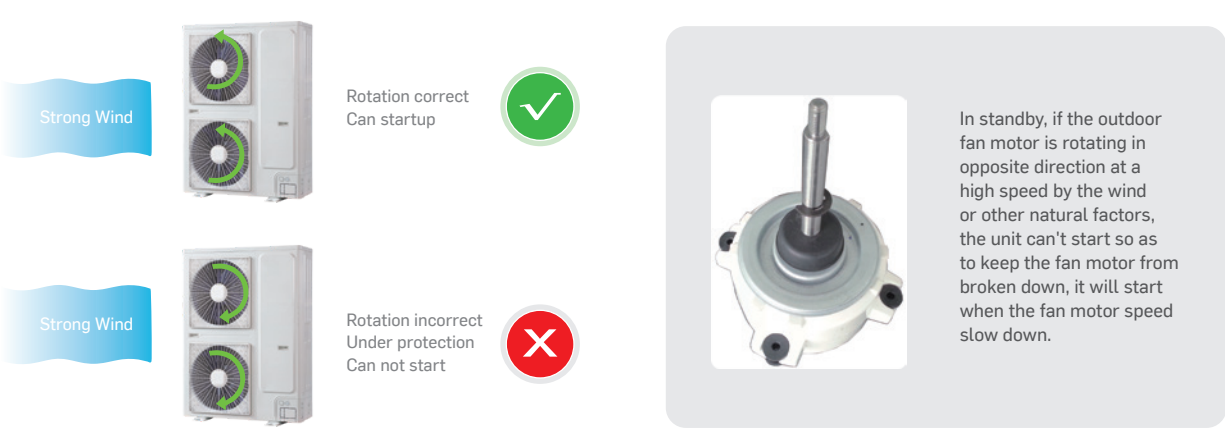
Program starts only when unit needs to. Whereas conventional unit's defrosting timing & duration is fixed, causing fluctuations in temperature and personal comfort.



Defrost curve

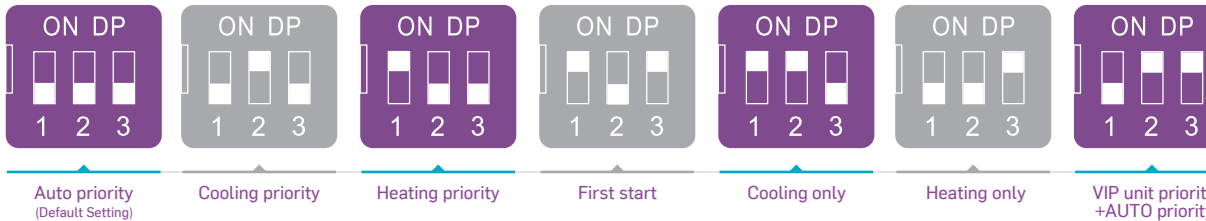
- Conventional unit's defrosting timing & duration is fixed.
- Intelligent defrosting program starts according to heat exchanging efficiency & capacity change due to the frost. Less temperature fluctuations, people feel more comfortable.

Fan Reversal Protection



Mode Restriction

- 7 kinds of mode restriction
 - Auto priority(Default Setting)
 - Cooling only mode
 - Cooling priority mode
 - Heating only mode
 - Heating priority mode.
 - VIP unit priority+AUTO priority mode
 - First start mode
- Mode restriction function can be selected on the outdoor PCB.



High Efficiency

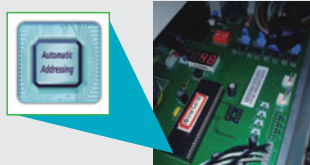
NEW TECHNOLOGY

Refrigerant cooling technology for PCB

- The radiation fin is made of aluminum panels fitting together seamlessly.
- This helps to cool down the IPM, it has better performance compared to air cooling for PCB.
- The outdoor unit has capability to run in max. 55°C ambient temperature.

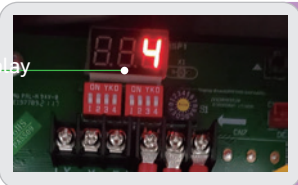
Automatically Addressing

- Automatically addressing: system will distribute address to indoor unit automatically.
- Automatic addressing will reduce artificial faults and manual works.



Independent Display Board

Digital display



Digital display on the PCB, it can show system's operation status and error codes.

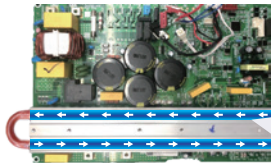
Service Window

- Service window on the right side to connect the cable and digital display to check the running data.
- One button to start the system to do the running test.



Refrigerant cooling tech. for PCB

- Good performance with enhanced refrigerant cooling solution
- Intelligent refrigerant control technology to protect PCB
- Quick action speed to make the main PCB working at suitable temperature range
- High reliability



The cold refrigerant flows through the PCB and takes away the heat of the PCB through the aluminum heat exchange plate to ensure the long-term stable operation.

Dual-fan

Model name	Power type (V/N/Hz)	Cooling				Heating				Compressor		Motor		Refrigerant		Sound pressure Level DB(A)	Dimension (W×H×D)		Weight		Connecting		Max Conn- ected indoor units quantity
		Capacity		Power input	EER	Capacity		Power input	COP	Type	Qty	Type	Qty	Type	Volume kg		Packing	Body	Net	Gross	Gas	Liquid	
		kW	Btu/h	kW		kW	Btu/h	kW									mm	mm	kg	kg	mm	mm	
ZTVC-CHS125DX	380-415/3/50	12.5	42000	3.38	3.70	14	47000	3.26	4.29	DC/ Twin - rotary	1	DC/ fan motor	2	R410a	3.45	56	1010 x 1445	975 x 1335	86.6	96.4	Φ15.88		7
ZTVC-CHS140DX	380-415/3/50	14	47800	3.80	3.68	16	54000	3.97	4.03						3.8		8						
ZTVC-CHS160DX	380-415/3/50	16	54000	4.53	3.53	18	61000	4.61	3.91						3.8		9						
ZTVC-CHS180DX	380-415/3/50	18	61000	5.18	3.47	20	68000	5.02	3.98						4.2		10						
ZTVC-CHS200DX	380-415/3/50	20	68200	5.92	3.38	22	75000	5.35	4.11						5.3		58	1095x 1545x 485	1015x 1430x 450	112.7	126.8	Φ19.05	11
ZTVC-CHS224DX	380-415/3/50	22.4	76400	6.75	3.32	24	81800	5.62	4.27						5.3			13					
ZTVC-CHS260DX	380-415/3/50	26	88700	7.54	3.45	28.5	97200	6.77	4.21						6.1			60	1278 x 1703 x 560	1120 x 1549 x 528	142	162	Φ22.2
ZTVC-CHS280DX	380-415/3/50	28	95500	8.31	3.37	31.5	107500	8.18	3.85						8.0		16						
ZTVC-CHS335DX	380-415/3/50	33.5	114300	9.46	3.54	37.5	128000	8.99	4.17						8.0		19						

Note

1.Cooling Operation Conditions:
Indoor Air Inlet Temperature: 27°C DB / 19°C WB,T1: Outdoor Air Inlet Temperature: 35°C DB
2.Heating Operation Conditions:
Indoor Air Inlet Temperature: 20.0°C DB,Outdoor Air Inlet Temperature: 7°C DB / 6°C WB

Single-fan

Model name	ZTVC-CHS080BXP	ZTVC-CHS100BXP	ZTVC-CHS125BXP	ZTVC-CHS125DXP-D01	ZTVC-CHS140BXP	ZTVC-CHS140DXP-F01	ZTVC-CHS160BXP	ZTVC-CHS160DXP-F01
	ZTVC-CHS080BYP	ZTVC-CHS100BYP	ZTVC-CHS125BYP	ZTVC-CHS125DXP-D01	ZTVC-CHS140BXP	ZTVC-CHS140DXP-F01	ZTVC-CHS160BXP	ZTVC-CHS160DXP-F01
Power supply	220~240V/1N/50Hz	220~240V/1N/50Hz	220~240V/1N/50Hz	380~415V/3N/50Hz	220~240V/1N/50Hz	380~415V/3N/50Hz	220~240V/1N/50Hz	380~415V/3N/50Hz
	208~230V/1N/60Hz	208~230V/1N/60Hz	208~230V/1N/60Hz	380~415V/3N/60Hz	208~230V/1N/60Hz	380~415V/3N/60Hz	208~230V/1N/60Hz	380~415V/3N/60Hz

Performance data										
Coding	Capacity	kW	8	10	12.5	12.5	14	14	16	16
	Btu/h		27300	34100	42600	42600	47800	47800	54600	54600
	Power input	kW	2.60	3.00	3.20	3.20	3.75	3.75	4.75	4.75
	Rated current	A	11.8	13.6	14.5	6.0	17.0	7.0	21.8	8.8
	EER	W/W	3.08	3.33	3.91	3.91	3.73	3.73	3.37	3.37
Heating	Capacity	kW	9	11	14	14	16	16	17	17
	Btu/h		30700	37500	47800	47800	54600	54600	58000	58000
	Power input	kW	2.65	3.1	3.52	3.52	4	4	4.4	4.4
	Rated current	A	12	14	16.1	6.6	18.2	7.5	20	8.2
	COP	W/W	3.40	3.55	3.98	3.98	4.00	4.00	3.86	3.86
Compressor data										
DC Inverter compressor	Quantity		1	1	1	1	1	1	1	1
	Type		Twin-rotary	Twin-rotary	Twin-rotary	Twin-rotary	Twin-rotary	Twin-rotary	Twin-rotary	Twin-rotary
	Brand		Mitsubishi	GMCC	Mitsubishi	Highly	Mitsubishi	Highly	Mitsubishi	Mitsubishi
Fan data										
Fan motor	Type		DC	DC	DC	DC	DC	DC	DC	DC
	Quantity		1	1	1	1	1	1	1	1
	Power output	W	75	90	180	90	180	170	180	170
Fan blade	Fan Quantity		1	1	1	1	1	1	1	1
	Air flow	m³/h	3300	4000	5500	4000	5500	5500	5500	5500
Physical data										
Outdoor coil	Fin type		Hydrophilic Foil	Hydrophilic Foil	Hydrophilic Foil	Hydrophilic Foil	Hydrophilic Foil	Hydrophilic Foil	Hydrophilic Foil	Hydrophilic Foil
	Number of rows		3	2	2	2.5	3	3	3	3
	Tube type		Inner-grooved copper tube	Inner-grooved copper tube	Inner-grooved copper tube	Inner-grooved copper tube	Inner-grooved copper tube	Inner-grooved copper tube	Inner-grooved copper tube	Inner-grooved copper tube
Refrigerant	Type		R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a
	Volume	kg	2.00	2.60	3.00	3.00	3.80	3.45	3.80	3.80
Dimension (WxHxD)	Net	mm	935x702x383	1032x810x445	1100x870x528	1032x810x445	1100x870x528	1100x870x528	1100x870x528	1100x870x528
	Packing	mm	975x770x420	1075x875x495	1140x965x540	1075x875x495	1140x965x540	1140x965x540	1140x965x540	1140x965x540
Weight	Net	kg	47	60	85	67.4	90	87.5	90	90
	Gross	kg	50	65	95	72.2	100	97.4	100	100
ODU sound level		dB(A)	≤54	≤56	≤56	≤56	≤57	≤57	≤57	≤57
Operation temp. range										
Coding	Outdoor side	°C	-5~55	-5~55	-5~55	-5~55	-5~55	-5~55	-5~55	-5~55
	Heating Outdoor side	°C	-15~30	-15~30	-15~30	-15~30	-15~30	-15~30	-15~30	-15~30

Note




1. The coding conditions: indootemp.:27°C DB(80.6°F), 19°C WB(66°F), outdoor temp.: 35°C DB(95°F)equivalent pipe length:5m drop length:0m.
2. The heating conditions: indootemp.:20°C DB(68°F), 15°C WB(44.6°F), outdoor temp.:7°C DB(42.8°F)equivalent pipe length:5m drop length:0m.
3. Sound level: Anechoic chamber conversion value, one measured point is 1 m in front of the unit at a height of 1 m. Two measured points are 1 m beside the unit at a height of 1 m. During actual operation these values are normally somewhat higher as a result of ambient conditions.
4. The above data maybe changed without notice for future improvement on quality at performance.



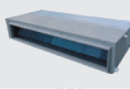

INDOOR UNITS

Provide you with fresh air



Indoor Units line Up

Capacity (kW)		2-way cassette	Round flow cassette	4-way cassette (Compact type)	
					
2.2	•			•	
2.8	•			•	
3.6	•			•	
4.5	•	•		•	
5.6	•	•	•		
7.1	•	•	•		•
8.0		•	•		
9.0			•		
10.0			•		•
11.2			•		
12.0					
12.5			•		
14.0			•		
15.0					
16.0			•		•

Capacity (kW)	Wall-mounted	Floor Ceiling	Short ceiling concealed ducted unit	Medium ESP ducted unit	High ESP ducted unit	Fresh air processor
						
2.2	•		•			
2.8	•		•			
3.6	•	•	•			
4.5	•	•	•			
5.6	•	•	•			
7.1	•	•	•			
8.0		•		•	•	
9.0		•		•	•	
10.0				•	•	
11.2		•				
12.0				•	•	
14.0		•				•
15.0				•	•	
16.0		•				
20.0					•	
22.4						•
25.0					•	
28.0					•	•
45.0					•	•
56.0					•	•

1-way Cassette

2-way Cassette



Features

Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
/	Standard	Standard	Standard(built-in)	Standard	/

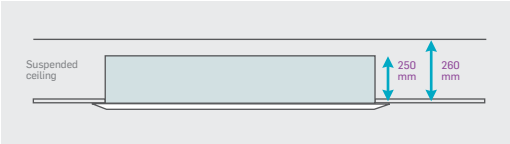
Features

Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
/	Standard	Standard(built-in)	Standard(built-in)	Standard	/

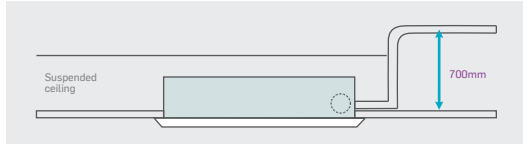
Slim body, easy to install

Has slim body with 250mm height, it is specially suitable for low suspended ceiling rooms.



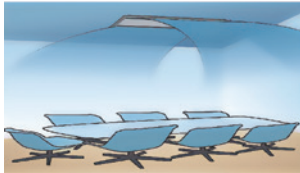
Built-in with drainage pump

Built-in with low noise long life drainage pump, Pumping head is 700mm, flexible for drainage pipe design.



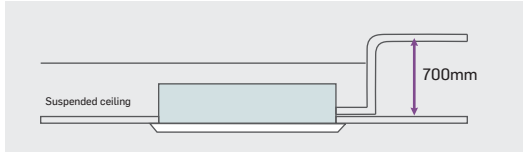
2 way air direction

Two direction air flow, flexibly install in various rooms or hallway



Built-in with drainage pump

Built-in with low noise long life drainage pump, Pumping head is 700mm,flexible for drainage pipe design.



Specification

Model name	Power type	Capacity				Motor input	Air flow		Sound Level	ESP	Dimension(WxHxD)				Body Weight		Connecting pipe			Standard controller	
		Cooling		Heating							Net	Gross	Gas	Liquid	Drain						
		kW	kBtu/h	kW	kBtu/h											mm	mm	mm	mm		mm
ZTVC-ECS22BX	50Hz	2.2	7.5	2.5	8.5	0.04	520	306	32~36	/	1150 x 275 x 645	985 x 250 x 513	1090 x 65 x 540	1070 x 50 x 520	24/3.6	28/5.0	Φ9.53	Φ6.35	ODΦ25	Remote controller	
ZTVC-ECS28BX	50Hz	2.8	9.5	3.2	10.9						1150 x 275 x 645	985 x 250 x 513	1090 x 65 x 540	1070 x 50 x 520							
ZTVC-ECS36BX	50Hz	3.6	12.2	4.0	13.6						1150 x 275 x 645	985 x 250 x 513	1090 x 65 x 540	1070 x 50 x 520							
ZTVC-ECS45BX	50Hz	4.5	15.3	5.0	17.0	0.05	610	360	36~41		1460 x 305 x 680	1295 x 290 x 553	1405 x 70 x 575	1380 x 50 x 560	35.5/5	40/7	Φ12.7				Φ6.35
ZTVC-ECS56BX	50Hz	5.6	19.1	6.3	21.4	0.07	750	440	35~41		1460 x 305 x 680	1295 x 290 x 553	1405 x 70 x 575	1380 x 50 x 560			Φ12.7				
ZTVC-ECS71BX	50Hz	7.1	24.2	8.0	27.2	0.09	950	550	38~45		1460 x 305 x 680	1295 x 290 x 553	1405 x 70 x 575	1380 x 50 x 560			Φ15.9	Φ9.53			

Notes:
1.Power supply: 220~240V/1N for 50Hz, the above data is for AC motor model.
2.Cooling test condition: indoor side 27℃ DB, 19℃ WB outdoor side 35℃ DB. Heating test condition: indoor side 20℃ DB, 15℃ WB outdoor side 7℃ DB
3.Sound level: measured at a point 1.4 m below the unit. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
4.The above data may be changed without notice for future improvement on quality and performance.

Specification

Model name	Power type	Capacity				Motor input	Air flow		Sound Level	ESP	Dimension(WxHxD)				Body Weight		Connecting pipe			Standard controller
		Cooling		Heating							Net	Gross	Gas	Liquid	Drain					
		kW	kBtu/h	kW	kBtu/h															
		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	
ZTVC-ECD45BX	50Hz	4.5	15.3	5.0	17	0.07	800	470	36~42	/	1215 x 360 x 650	1092 x 315 x 548	1205 x 75 x 655	1178 x 44 x 650	36/5	41/7	Φ12.7	Φ6.35	ODΦ25	Remote controller
ZTVC-ECD56BX	50Hz	5.6	19.1	6.3	21.4						1455 x 360 x 650	1332 x 315 x 548	1445 x 75 x 655	1420 x 44 x 650						
ZTVC-ECD71BX	50Hz	7.1	24.2	8.0	27.2	0.10	1120	650	40~46		1455 x 360 x 650	1332 x 315 x 548	1445 x 75 x 655	1420 x 44 x 650	48/6	42.5/8.5	Φ15.9	Φ9.53		
ZTVC-ECD80BX	50Hz	8.0	27.2	9.0	30.7						1455 x 360 x 650	1332 x 315 x 548	1445 x 75 x 655	1420 x 44 x 650						

Notes:
1.Power supply: 220~240V/1N for 50Hz, the above data is for AC motor model.
2.Cooling test condition: indoor side 27℃ DB, 19℃WB outdoor side 35℃ DB. Heating test condition: indoor side 20℃DB, 15℃ WB outdoor side 7℃ DB.
3.Sound level: measured at a point 1.4 m below the unit. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
4.The above data may be changed without notice for future improvement on quality and performance.

4-way Cassette(Compact Type)/Round-flow Cassette



Features

Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
/	Standard	Standard	Standard(built-in)	Standard	Optional

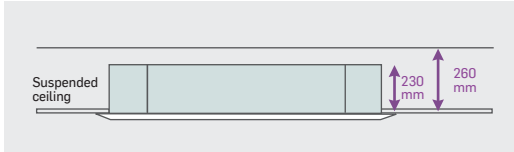
Wide air delivering

Air flow is soft and smooth, air can be delivered to every corner without dead angle, it makes the room temperature distribution more balance.



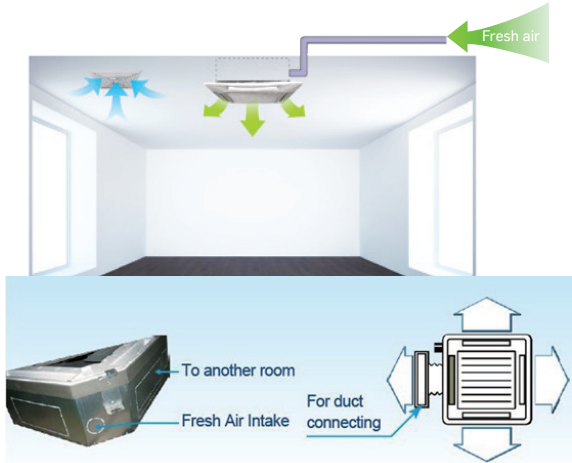
Space saving installation

it has a slim body with 230mm height, it is specially suitable for low suspended ceiling rooms.(5.6~8.0kW)



Fresh air intake

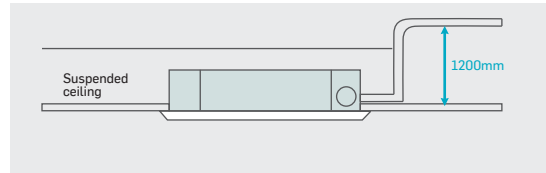
Four interfaces to connect with duct to another room. Fresh air intake, aims to provide more healthy and comfortable indoor environment.



Built-in with drainage pump

Built-in with low noise long life drainage pump, Pumping head is 1200mm, flexible for drainage pipe design.

Note: The pumping head of 4-way cassette unit (compact type)is 700mm.



Specification

4-way Cassette Unit(Compact type)

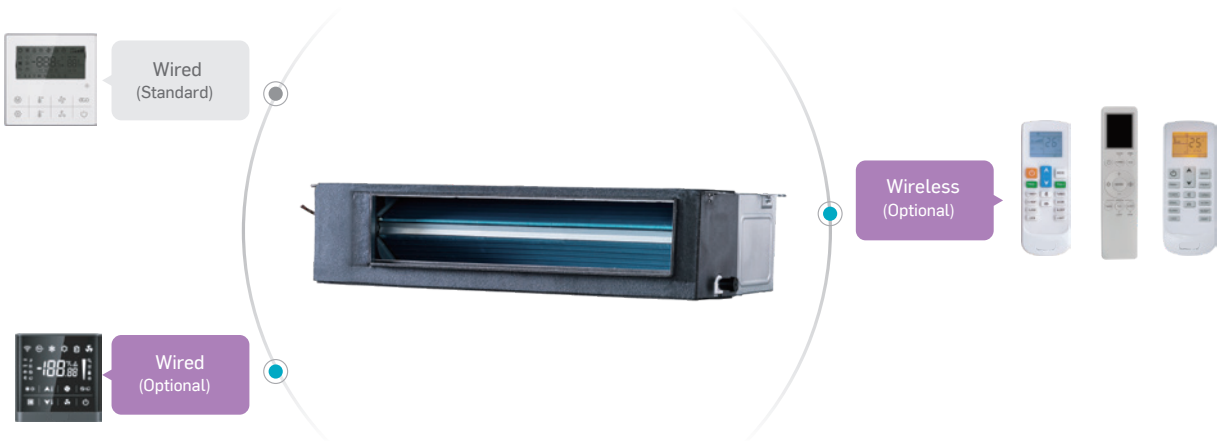
Model name	Power type	Capacity				Power input	Air flow		Sound Level	ESP	Dimension(WxHxD)				Body Weight		Connecting pipe			Standard controller
		Cooling	Heating	Cooling	Heating		M ³ /h	CFM			Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	
ZTVC-ECFC22BX	50Hz	2.2	7.5	2.5	8.5	0.038	447	263	22~34	/	755 x 375 x 680	653 x 267 x 585	750 x 95 x 750	650 x 30 x 650	17.5	23	Φ9.52	Φ6.35	ODΦ25	Remote controller
ZTVC-ECF22BY	60Hz																			
ZTVC-ECFC28BX	50Hz	2.8	9.5	3.2	10.9	0.038	447	263	22~34						17.5	23				
ZTVC-ECF28BY	60Hz																			
ZTVC-ECFC36BX	50Hz	3.6	12.2	4.0	13.6	0.040	515	303	27~38						17.5	23				
ZTVC-ECF36BY	60Hz																			
ZTVC-ECFC45BX	50Hz	4.5	15.3	5.0	17	0.040	515	303	27~38						17.5	23				
ZTVC-ECF45BY	60Hz																			

Round-flow Cassette

Model name	Power type	Capacity				Power input	Air flow		Sound Level	ESP	Dimension(WxHxD)				Body Weight		Connecting pipe			Standard controller								
		Cooling		Heating			M³/h	CFM			DB(A)	Pa	Packing	Body	Panel packing	Panel	Net	Gross	Gas		Liquid	Drain						
		kW	kBtu/h	kW	kBtu/h								mm	mm	mm	mm	kg	kg	mm		mm	mm	mm					
ZTVC-ECFE56BX	50Hz	5.6	19.1	6.3	21.4	0.043	860	500	32~39	/	920 x 265 x 985	833 x 232 x 900			24	30	Φ12.7	Φ6.35		Remote controller								
ZTVC-ECFE56BY	60Hz																											
ZTVC-ECFE71BX	50Hz	7.1	24.2	8.0	27.2	0.093	1200	700	35~39						24	30												
ZTVC-ECFE71BY	60Hz																											
ZTVC-ECFE80BX	50Hz	8.0	27.2	8.8	30	0.160	1400	820	37~41						920 x 310 x 985	833 x 286 x 900					1030 x 100 x 1030	950 x 50 x 950	24	30	Φ15.88	Φ9.52	Φ25	
ZTVC-ECFE80BY	60Hz																											
ZTVC-ECFE90BX	50Hz	9.0	30.7	10.0	34.1						28.5	35																
ZTVC-ECFE90BY	60Hz																											
ZTVC-ECFE100BX	50Hz	10.0	34.1	11.0	37.5						28.5	35																
ZTVC-ECFE100BY	60Hz																											
ZTVC-ECFE112BX	50Hz	11.2	38.2	12.5	42.6						28.5	35	Φ15.88	Φ9.52	Φ25													
ZTVC-ECFE112BY	60Hz																											
ZTVC-ECFE125BX	50Hz	12.5	42.6	14.0	47.7						28.5	35																
ZTVC-ECFE125BY	60Hz																											
ZTVC-ECFE140BX	50Hz	14.0	47.7	15.0	51.1						28.5	35																
ZTVC-ECFE140BY	60Hz																											
ZTVC-ECFE160BX	50Hz	16.0	54.5	17.0	58						1800	1050	38~46	28.5	35													
ZTVC-ECFE160BY	60Hz																											

Notes:
1.Power supply: 220~240V/1N for 50Hz; 208~230V/1N for 60Hz, the above data is for AC motor model.
2.Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB.
3.Sound level: measured at a point 1.4 m below the unit. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
4.The above data may be changed without notice for future improvement on quality and performance.

Short Ceiling Concealed Ducted Unit



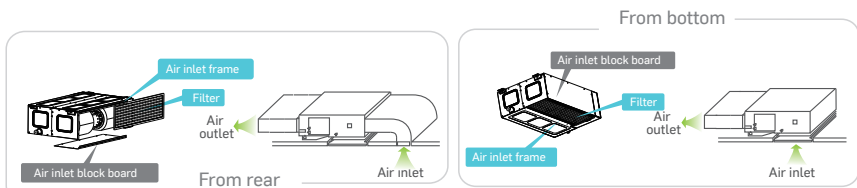
Features

Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
Standard	Optional	Standard(built-in)	Optional	Standard	Optional

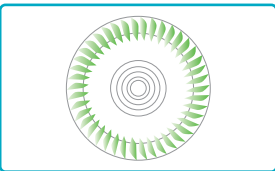
Flexible installation

Air return method is optional by actual installation, from rear or from bottom.



Big air flow low noise centrifugal fan wheel

Big air flow low noise centrifugal fan blade with special air tunnel system, and the unique shock absorption measures, making this series ducted units' running noise is as low as 24 dB(A), let users to enjoy the comfort, sleep without any disturbance.



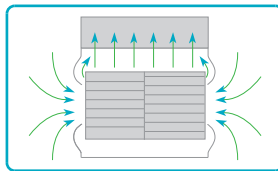
Special resin material fan wheel.



All vanes are dislocation distribution to offset sound wave, so that the noise can be reduced.



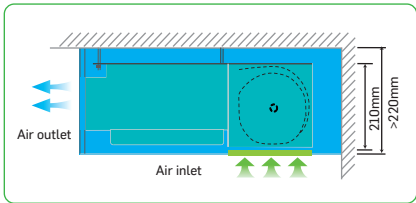
High efficiency low noise motor, motor and support frame with rubber ring isolation, can absorb vibration and reduce noise.



Air inlet of fan wheel casing is arch curved design, it can reduce air flow's disturbance, make it flow smoother to reduce noise.

Slim body, easy to install

Has slim body with 210mm height, it is specially suitable for low suspended ceiling rooms.



DC fan motor is optional

Integrated design of motor and motor bracket, lower noise

Drain pump is optional

Pumping head is 700mm.

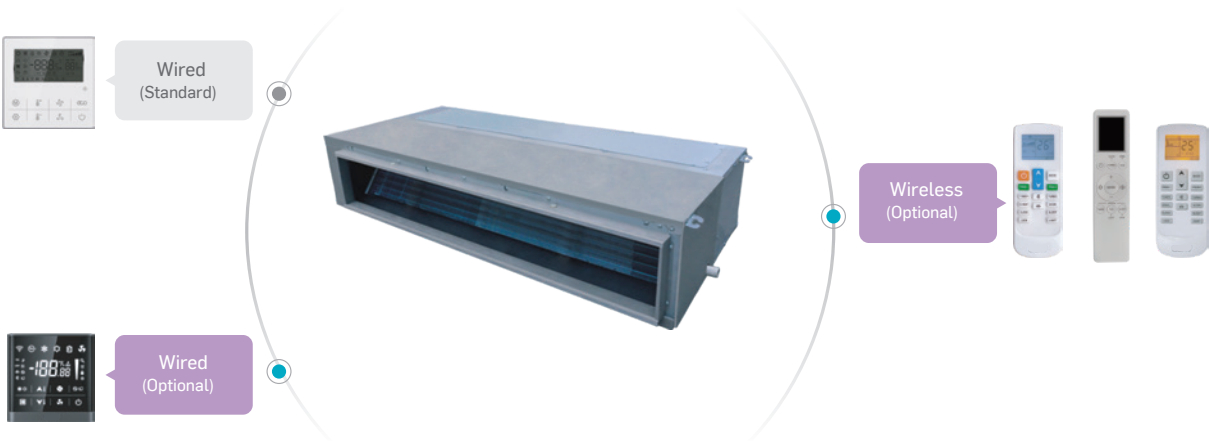
Provide you with fresh air

Specification

Model name	Power type	Capacity				Rated input kW	Air flow		Sound Level dB(A)	ESP Pa	Dimension(WxHxD)				Body Weight		Connecting pipe			Standard controller							
		Cooling		Heating			M³/h	CFM			Packing mm	Body mm	Panel packing mm	Panel mm	Net kg	Gross kg	Gas mm	Liquid mm	Drain mm								
		kW	kBtu/h	kW	kBtu/h																						
ZTVC-EDL22BX	50Hz	2.2	7.5	2.5	8.5	0.08	450	260	24~29	30	910 x 240 x 510	814 x 210 x 467	/	/	17.5	20.0	Φ9.52	Φ6.35	ODΦ25	Wired controller							
ZTVC-EDL22BY	60Hz																										
ZTVC-EDL28BX	50Hz	2.8	9.5	3.2	10.9	0.11	550	324	25~32						17.5	20.0	Φ6.35				/	/	18.0	20.5	Φ12.7	ODΦ25	Wired controller
ZTVC-EDL28BY	60Hz																										
ZTVC-EDL36BX	50Hz	3.6	12.2	4.0	13.6	0.11	620	360	32~37	30	1110 x 240 x 510	1010 x 210 x 467	/	/	18.0	20.5	Φ12.7	ODΦ25	Wired controller								
ZTVC-EDL36BY	60Hz																										
ZTVC-EDL45BX	50Hz	4.5	15.3	5.0	17	0.16	800	520	28~38						30	1110 x 240 x 510	1010 x 210 x 467			/	/	18.0	20.5	Φ12.7	ODΦ25	Wired controller	
ZTVC-EDL45BY	60Hz																										
ZTVC-EDL56BX	50Hz	5.6	19.1	6.3	21.4	0.16	800	520	28~38	30	1110 x 240 x 510	1010 x 210 x 467	/	/				21.5	24.5			Φ12.7	ODΦ25	Wired controller			
ZTVC-EDL56BY	60Hz																										
ZTVC-EDL71BX	50Hz	7.1	24.2	8.0	27.2	0.18	1000	640	30~39						30	1310 x 240 x 510	1214 x 210 x 467	/	/	26.5	30.0	Φ15.88			Φ9.52	Wired controller	
ZTVC-EDL71BY	60Hz																										

Notes:
1.Power supply: 220~240V/1N for 50Hz;208~230V/1N for 60Hz, the above data is for AC motor model.
2.Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB.
3.Sound level: measured at a point 1 m in front of the unit outlet and 1 m below the unit outlet center. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
4.The above data may be changed without notice for future improvement on quality and performance.

Medium ESP Ducted Unit



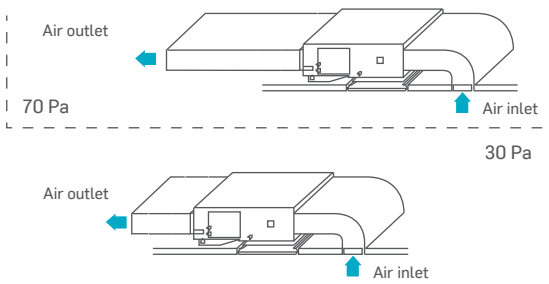
Features

Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
Standard	Standard	Standard	Optional	Standard	Optional

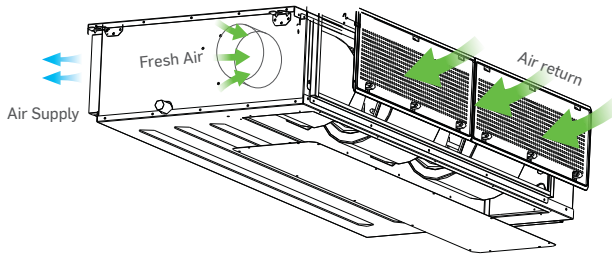
Static pressure

70Pa ESP is standard, suitable for lang distance air supply, 30Pa is optional(can be set on site), suitable for low noise requirement rooms.



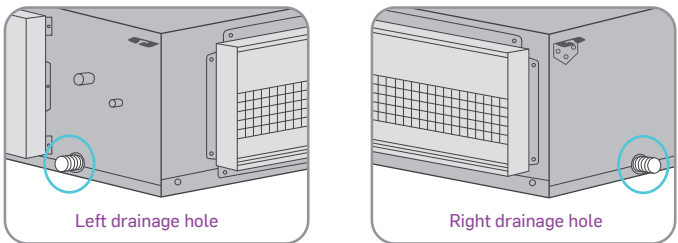
Fresh air intake

A reserved outside air intake port allows outdoor air to be introduced directly into the unit, no need for a separete ventilation system.



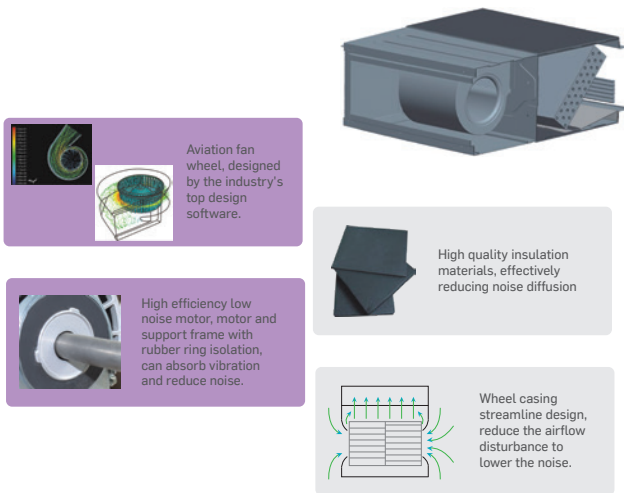
Convenient in drainage pipe installation

Reserved drainage pipe outlet holes on left side and right side, installer can choose the outlet holes on site as per actual conditions, flexible for drainage pipe installation.



Low noise design

Using multiple noise reduction technology, including the design of high efficiency low noise motor, aviation fan wheel, low vibration wheel casing, unique design, the inner wall configuration with high quality insulation materials, and so on, to make the units running in a low noise condition.

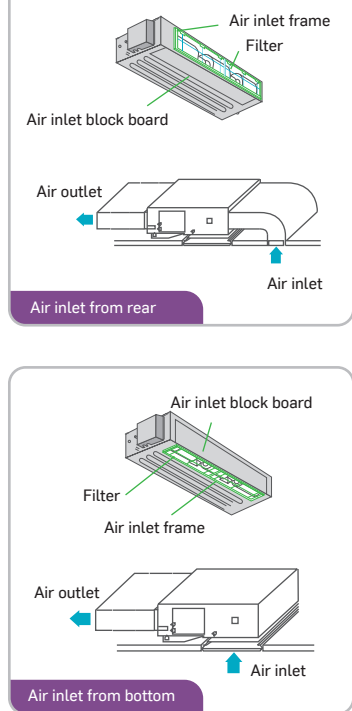


DC fan motor is optional

The power consumption of DC fan motor can be reduced greatly in comparison to corresponding AC type.

Two air return installation methods

Air return from rear or bottom is easy to change on site, convenient for installation.

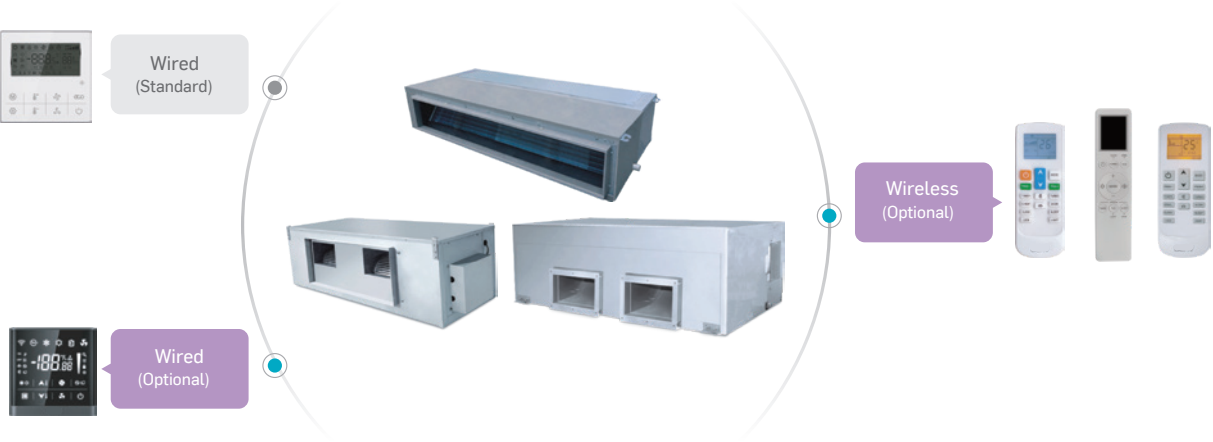


Specification

Model name	Power type	Capacity				Rated input	Air flow		Sound Level	ESP	Dimension(WxHxD)				Body Weight		Connecting pipe			Standard controller								
		Cooling		Heating			M³/h	CFM			Panel packing	Panel	Net	Gross	Gas	Liquid	Drain											
		kW	kBtu/h	kW	kBtu/h													mm	mm		mm	mm	kg	kg	mm	mm	mm	
ZTVC-EDM71BX	50Hz	7.1	24.2	8.0	27.2	0.40	1220	710	36~41	70	1255 x 325 x 720	1209 x 260 x 680	/	/	33	37	Φ15.88	Φ9.52	ODΦ25	Wired controller								
ZTVC-EDM71BY	60Hz														33	37												
ZTVC-EDM80BX	50Hz	8.0	27.2	9.0	30.7										33	37												
ZTVC-EDM80BY	60Hz														33	37												
ZTVC-EDM90BX	50Hz	9.0	30.7	10.0	34.1	0.40	1850	1080	38~43	70	1490 x 325 x 720	1445 x 260 x 680	/	/	46	50					Φ15.88	Φ9.52	ODΦ25	Wired controller				
ZTVC-EDM90BY	60Hz														46	50												
ZTVC-EDM100BX	50Hz	10.0	34.1	11.0	37.5										46	50												
ZTVC-EDM100BY	60Hz														46	50												
ZTVC-EDM120BX	50Hz	12.0	40.9	13.0	44.3	0.40	2000	1170	40~44	70	1490 x 325 x 720	1445 x 260 x 680	/	/	46	50									Φ15.88	Φ9.52	ODΦ25	Wired controller
ZTVC-EDM120BY	60Hz														46	50												
ZTVC-EDM150BX	50Hz	15.0	51.1	17.0	58										46	50												
ZTVC-EDM150BY	60Hz														46	50												

Notes:
1.Power supply: 220~240V/1N for 50Hz; 208~230V/1N for 60Hz, the above data is for AC motor model.
2.Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB.
3.Sound level: measured at a point 1 m in front of the unit outlet and 1 m below the unit outlet center. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
4.The above data may be changed without notice for future improvement on quality and performance.

High ESP Ducted Unit

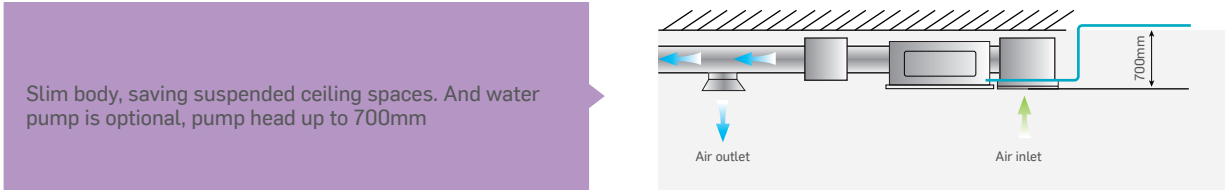


Features

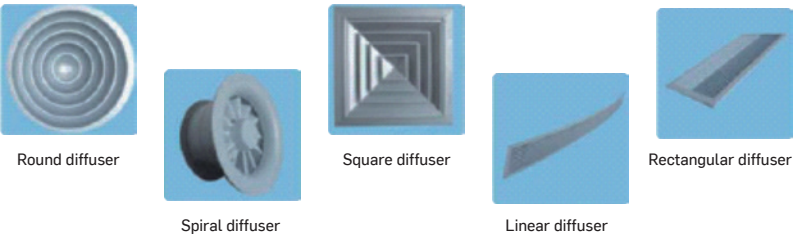
Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
Standard	Standard	Standard	Optional	Standard	/

Optional water pump



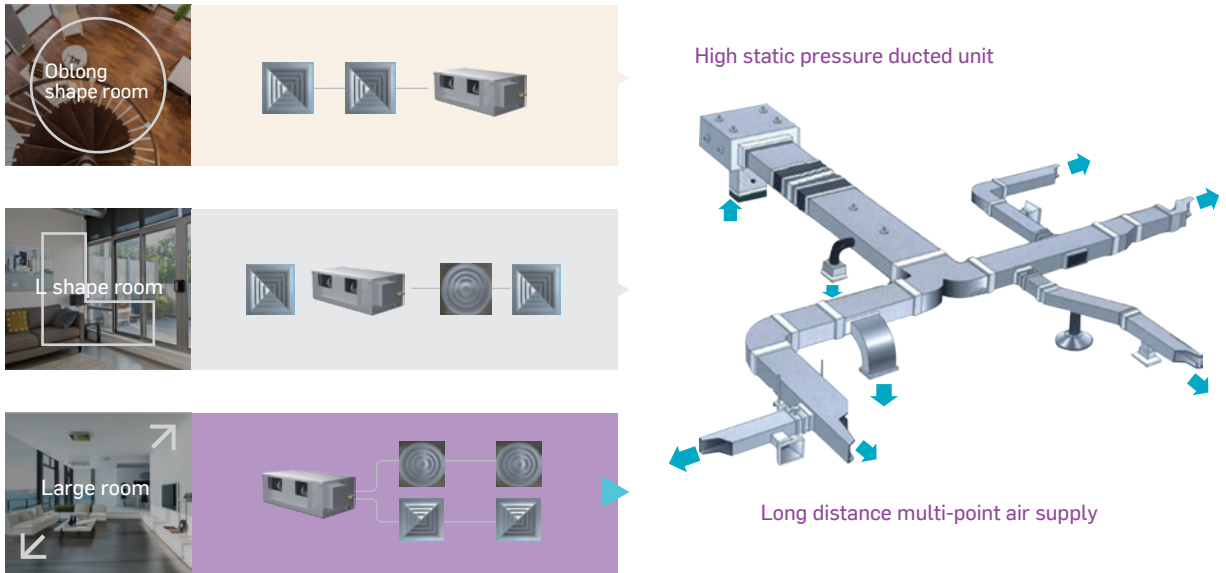
Can be used with various diffusers



Used with various diffusers, meet for different kinds of decoration.

High static pressure

Big air flow with high static pressure, easy for large rooms duct design. Suitable for different shape of rooms.



Specification

Model name	Power type	Capacity				Power input	Air flow		Sound Level	ESP	Dimension(WxHxD)		Body Weight		Connecting pipe			Standard controller
		Cooling	Heating				M³/h	CFM			Packing	Body	Net	Gross	Gas	Liquid	Drain	
		kW	kBtu/h	kW	kBtu/h	kW			DB(A)	Pa	mm	mm	kg	kg	mm	mm	mm	
ZTVC-EDH71BX	50Hz	7.1	24.2	7.8	26.6													
ZTVC-EDH71BY	60Hz																	
ZTVC-EDH80BX	50Hz	8.0	27.2	8.8	30	0.40	1500	880	40~42		1490 x 325 x 720	1445 x 260 x 680	46	50				
ZTVC-EDH80BY	60Hz																	
ZTVC-EDH90BX	50Hz	9.0	30.7	10.0	34.1													
ZTVC-EDH90BY	60Hz																	
ZTVC-EDH100BX	50Hz	10.0	34.1	11.0	37.5													
ZTVC-EDH100BY	60Hz																	
ZTVC-EDH120BX	50Hz	12.0	40.9	13.0	44.3	0.50	2300	1350	44~52		1245 x 445 x 655	1190 x 370 x 620	47	51				
ZTVC-EDH120BY	60Hz																	
ZTVC-EDH150BX	50Hz	15.0	51.1	17.0	58.0					150								
ZTVC-EDH150BY	60Hz																	
ZTVC-EDH200BX	50Hz	20.0	68.2	22.0	75.0	1.72	4000	2350	45~53		1510x580x870	1465x448x811						
ZTVC-EDH200BY	60Hz																	
ZTVC-EDH200BXD	50/60Hz	20.0	68.2	22.0	75.0	1.20	3750	2200	45~50		1515x885x580	1440x811x448						
ZTVC-EDH250BX	50Hz	25.0	85.3	27.5	93.8	1.72	4200	2470	45~54		1510x580x870	1465x448x811	102	113	Φ22.2	Φ12.7	ODΦ30	
ZTVC-EDH250BY	60Hz																	
ZTVC-EDH250BXD	50/60Hz	25.0	85.3	27.5	93.8	1.20	3750	2200	46~51		1515x885x580	1440x811x448						
ZTVC-EDH280BX	50Hz	28.0	95.5	30.8	105.0	1.72	4400	2580	45~55		1510x580x870	1465x448x811						
ZTVC-EDH280BY	60Hz																	
ZTVC-EDH280BXD	50/60Hz	28.0	95.5	30.8	105.0	1.30	4100	2400	48~52		1515x885x580	1440x811x448						
ZTVC-EDH450BX	50Hz	45.0	153.5	50.0	170.6	2.60	6000	3520	60		2267 x 840 x 1050	2165 x 676 x 916	222	260	Φ28.6	Φ15.88	ODΦ32	
ZTVC-EDH450BY	60Hz																	
ZTVC-EDH560BX	50Hz	56.0	191.0	63.0	214.9	3.40	8000	4700	64									
ZTVC-EDH560BY	60Hz																	

Notes:
1.Power supply: 220~240V/1N for 50Hz;208~230V/1N for 60Hz..
2.Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB.
3.Sound level: measured at a point 1 m in front of the unit outlet and 1 m below the unit outlet center. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
4.The above data may be changed without notice for future improvement on quality and performance.

Wall Mounted Unit



Features

Accessories

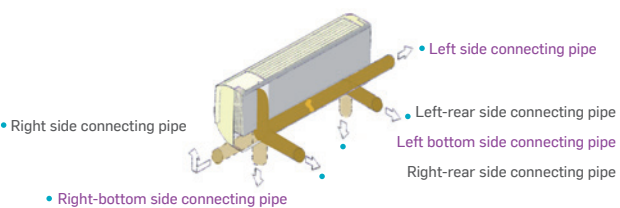
Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
/	Standard	Standard(built-in)	/	/	Standard

Air supply smoothly
Cross flow fan, In Cooling mode, cold air is blown from horizontal. In heating mode, warm air is blown from vertical.

2 panels can be chosen, suitable for all kinds of decoration style
Simple, elegant, stylish, mirror design, suitable for all kinds of decoration style.

Flexible in installation
Refrigerant pipe can be connected from 3 directions.

Hotel card function
Hotel card interface is standard, which are designed to save energy by only running appliances while guest are present in their room.



Specification

Model			ZTVC-EHW22DBZ/GSB	ZTVC-EHW28DBZ/GSB	ZTVC-EHW36DBZ/GSB	ZTVC-EHW45DBZ/GSB	ZTVC-EHW56DBZ/GSB	ZTVC-EHW71DBZ/GSB
Power Supply			220-240V/1N/50&60Hz	220-240V/1N/50&60Hz	220-240V/1N/50&60Hz	220-240V/1N/50&60Hz	220-240V/1N/50&60Hz	220-240V/1N/50&60Hz
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	kW	2.5	3.2	4.0	5.0	6.3	8.0
Power input		W	15	15	18	20	23	35
Fan motor	Type		DC	DC	DC	DC	DC	DC
	Speed (Hi/Med/Low)	r/min	1000/900/870/850	1000/900/870/850	1100/1000/950/900	1050/950/900/850	1100/1000/950/900	1300/1200/1100/1000
Air flow		m³/h	440/380/360/350	440/380/360/350	500/440/415/380	655/610/565/525	720/645/580/560	890/805/720/645
Sound Pressure level		dB(A)	24~33	24~33	27~36	29~38	32~42	35~43
Body dimension (W×H×D)	Net	mm	864x300x200	864x300x200	864x300x200	972x320x215	972x320x215	972x320x215
	Packing	mm	945x375x290	945x375x290	945x375x290	1060x400x310	1060x400x310	1060x400x310
Body weight		kg	9.5/12	9.5/12	9.5/12	11.5/14	11.5/14	11.5/14
Refrigerant type			R410A	R410A	R410A	R410A	R410A	R410A
Throttle type			EXV	EXV	EXV	EXV	EXV	EXV
Liquid pipe/Gas pipe		mm	Φ6.35/Φ9.52	Φ6.35/Φ9.52	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ6.35/Φ12.7	Φ9.52/Φ15.88
Drainage water pipe (Outer diameter)		mm	Φ20	Φ20	Φ20	Φ20	Φ20	Φ20
Operation temperature		℃	16~32	16~32	16~32	16~32	16~32	16~32

Notes:
1.Power supply: 220~240V/1N for 50Hz;208~230V/1N for 60Hz.
2.Cooling test condition: indoor side 27℃ DB, 19℃ WB outdoor side 35℃ DB. Heating test condition: indoor side 20℃ DB,15℃ WB outdoor side 7℃ DB.
3.Sound level: measured at a point 1 m in front of the unit outlet and 0.8 m below the unit outlet center. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
4.The above data may be changed without notice for future improvement on quality and performance.

Wall Mounted Unit



Floor Ceiling Unit



Features

Accessories

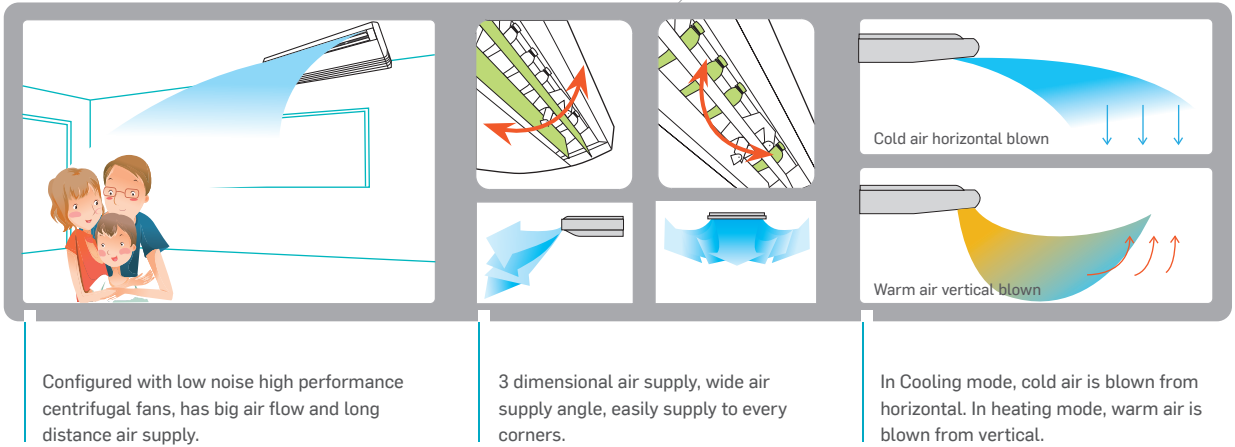
Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
/	Standard	Standard(built-in)	Optional	Standard	Optional

Flexible installation

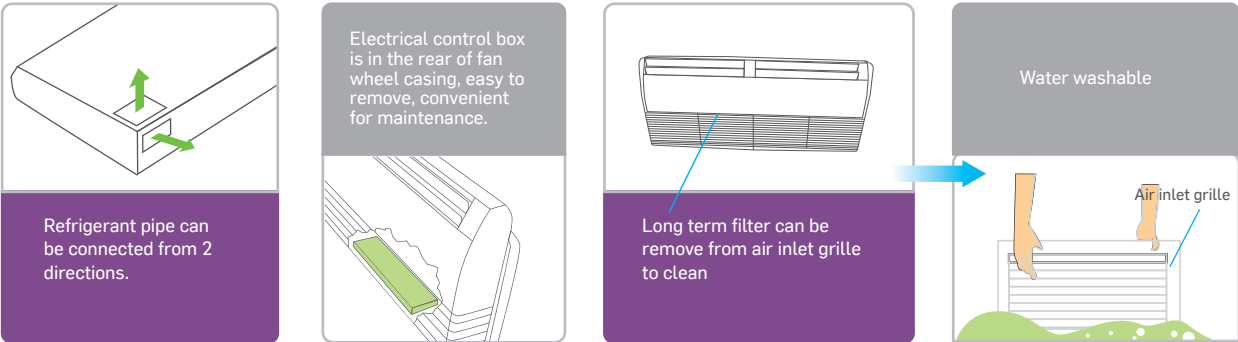
According to actual project needs, choose ceiling suspended installation or floor standing installation.



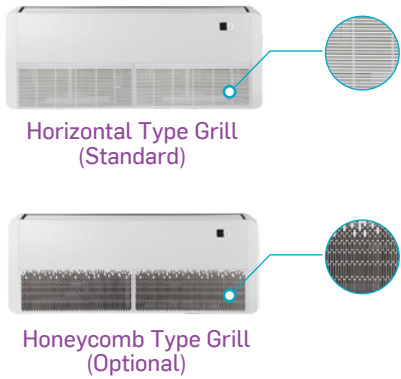
Wide angle air supply



Easy for installtion



Two kinds of grilles for selection



Specification

Model name	Power type	Capacity				Power input	Air flow		Sound Level	Dimension(WxHxD)		Body Weight		Connecting pipe			Standard controller	
		Cooling		Heating			M³/h	CFM		DB(A)	Packing	Body	Net	Gross	Gas	Liquid		Drain
		kW	kBtu/h	kW	kBtu/h						mm	mm						
ZTVC-EFC36BX	50Hz	3.6	12.3	4.0	13.7	0.085	620	360	37~42	1130 x 765 x 330	1050 x 675 x 235	26.5	31.0	Φ12.7	Φ6.35	DN20	Remote controller	
ZTVC-EFC36BY-LDBA	60Hz																	
ZTVC-EFC45BX	50Hz	4.5	15.3	5.0	17	0.110	800	470	37~47	1380 x 765 x 325	1300 x 675 x 235	32.0	37.0	Φ15.88	Φ9.52	DN20		
ZTVC-EFC45BY-LDBA	60Hz																	
ZTVC-EFC56BX	50Hz	5.6	19.1	6.3	21.4	0.095	1200	706	45~51	1750 x 765 x 325	1670 x 675 x 235	41.0	47.0	Φ15.88	Φ9.52	DN20		
ZTVC-EFC56BY-LDBA	60Hz																	
ZTVC-EFC71BX	50Hz	7.1	24.2	8.0	27.2	0.160	1600	940	45~50	1750 x 765 x 325	1670 x 675 x 235	41.0	47.0	Φ15.88	Φ9.52	DN20		
ZTVC-EFC71BY-LDBA	60Hz																	
ZTVC-EFC80BX	50Hz	8.0	27.2	8.8	30	0.200	2000	1177	45~54	1750 x 765 x 325	1670 x 675 x 235	41.0	47.0	Φ15.88	Φ9.52	DN20		
ZTVC-EFC80BY-LDBA	60Hz																	
ZTVC-EFC90BX	50Hz	9.0	30.7	10.0	34.1	0.160	1600	940	45~50	1750 x 765 x 325	1670 x 675 x 235	41.0	47.0	Φ15.88	Φ9.52	DN20		
ZTVC-EFC90BY-LDBA	60Hz																	
ZTVC-EFC112BX	50Hz	11.2	38.2	12.5	42.6	0.200	2000	1177	45~50	1750 x 765 x 325	1670 x 675 x 235	41.0	47.0	Φ15.88	Φ9.52	DN20		
ZTVC-EFC112BY-LDBA	60Hz																	
ZTVC-EFC140BX	50Hz	14.0	47.7	15.0	51.1	0.200	2000	1177	45~54	1750 x 765 x 325	1670 x 675 x 235	41.0	47.0	Φ15.88	Φ9.52	DN20		
ZTVC-EFC140BY-LDBA	60Hz																	
ZTVC-EFC160BX	50Hz	16.0	54.5	17.0	58	0.200	2000	1177	45~54	1750 x 765 x 325	1670 x 675 x 235	41.0	47.0	Φ15.88	Φ9.52	DN20		
ZTVC-EFC160BY-LDBA	60Hz																	

Notes:

1.Power supply: 220~240V/1N for 50Hz; 208~230V/1N for 60Hz, the above data is for AC motor model.

2.Cooling test condition: indoor side 27°C DB, 19°C WB outdoor side 35°C DB. Heating test condition: indoor side 20°C DB, 15°C WB outdoor side 7°C DB.

3.Sound level: measured at a point 1 m in front of the unit outlet and at a height of 1 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

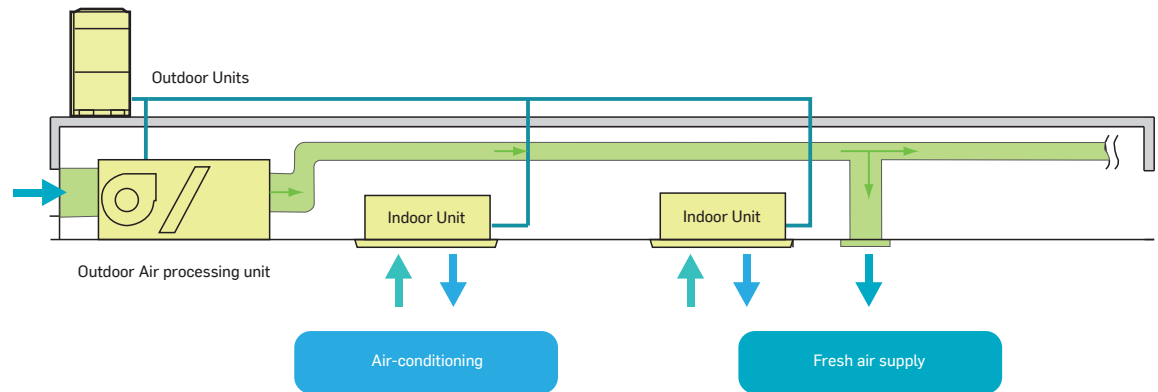
4.The above data may be changed without notice for future improvement on quality and performance.

Fresh Air Processor



Innovative air supply technology for excellent room temperature control

Fresh air unit can be connected with other type indoor units.
Layout Example:



Notes:1. When VRF system connect fresh air indoor unit and other type indoor units together, the capacity combination ratio between indoor unit and outdoor unit should within 100%
2. Fresh air unit capacity can't bigger than 30% of total indoor units capacity.

Features

Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
Standard	Optional	Standard	Optional	Standard	/



Healthy and comfortable environment

Fresh air is imported, provides a healthy and comfortable living environment.



Fresh air processing unit

Both fresh air filtration and heating/cooling can be achieved in a single system.
Indoor units and fresh air processing unit can be connected to the same refrigerant system, increase design flexibility and greatly reduce total system costs.



High external static pressure

External static pressure can be up to 300Pa for more flexible duct applications.

Specification

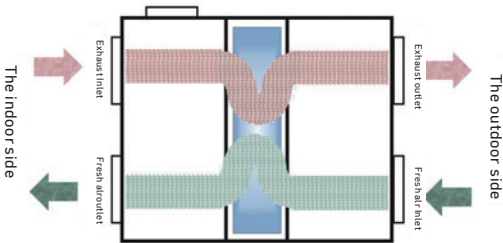
Model name	Power type	Capacity				Power input	Air flow	Sound Level	ESP	Dimension(WxHxD)				Body Weight		Connecting pipe			Standard controller
		Cooling kW	Cooling kBtu/h	Heating kW	Heating kBtu/h					Packing mm	Body mm	Panel packing mm	Panel mm	Net kg	Gross kg	Gas mm	Liquid mm	Drain mm	
ZTVC-EFA140BX	50Hz	14.0	47.7	9.0	30.7	0.45	1400	820	42~48	220	1245 x 445 x 655	1190 x 370 x 620		47	51	Φ15.88	Φ9.52	ODΦ25	Wired controller
ZTVC-EFA140BY	60Hz																		
ZTVC-EFA224BX	50Hz	22.4	76.4	16.0	54.5	1.20	2000	1170	45~52	220	1510 x 490 x 870	1465 x 448 x 811		102	106				
ZTVC-EFA224BY	60Hz								/										
ZTVC-EFA280BX	50Hz	28.0	95.5	20.0	68.2	1.20	2800	1640	45~52	220	1510 x 490 x 870	1465 x 448 x 811	/	102	106	Φ22.2	Φ12.7	ODΦ30	
ZTVC-EFA280BY	60Hz																		
ZTVC-EFA450BX	50Hz	45.0	153.5	31.4	107.1	1.60	4000	3520	58	300	2200 x 710 x 1018	2165 x 676 x 916		222	260				
ZTVC-EFA450BY	60Hz																		
ZTVC-EFA560BX	50Hz	56.0	191.0	39.0	133.0	2.50	6000	4700	62	300	2200 x 710 x 1018	2165 x 676 x 916		222	260	Φ28.6	Φ15.88	ODΦ32	
ZTVC-EFA560BY	60Hz																		

Notes:1.45kW & 56kW units' power supply are 380~415V/3N for 50Hz and 208~230V/3N for 60Hz, the others' power supply is 220~240V/1N for 50Hz and 208~230V/1N for 60Hz
2.Cooling test condition: Indoor and outdoor side 33°C DB, 28°C WB. Heating test condition: Indoor and outdoor side 0°CDB, -2.9°C WB.
3.Sound level: measured at a point 1 m below the unit. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
4.The above data may be changed without notice for future improvement on quality and performance.

Heat Recovery Ventilator



Features

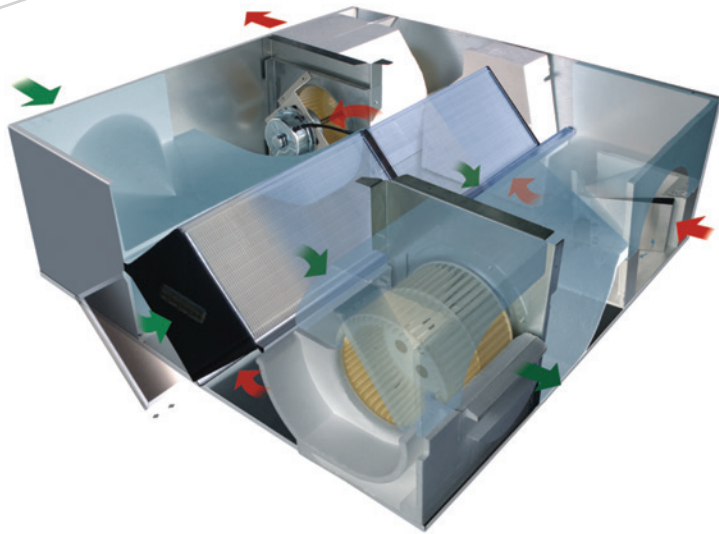


How it works

When air flow formed by exhaust air and outdoor air through the heat exchanged core in cross way, because of temperature difference in the two sides of flat partition board, the heat transmission is occurred.

In summer, outdoor air acquire cooling from air exhaust to decrease environment temperature; In winter, outdoor air acquire heating from air exhaust to increase temperature, that is to say, it realizing the energy recovery during air exhaust process to exchange the heating in heat exchanged core to outdoor air.

Application for: business office buildings, hotels, restaurants, meeting rooms, exhibition centres, leisure centres, workshop and other places.



Specification

Supspended type specification

Model name	Air flow M³/h	ESP Pa	Power input W	Power supply (V)	Temperature exchanging efficiency(%)		Enthalpy exchanging efficiency(%)		Noise dB(A)	Body dimension (WxDxH) mm	Weight kg
					Cooling	Heating	Cooling	Heating			
QR-X02D	200	75	65	220V/1N/50Hz	60.0	65.0	50.0	55.0	30	666x580x264	25
QR-X03D	300	75	130		60.0	65.0	50.0	55.0	33	744x599x270	27
QR-X04D	400	80	200		60.0	65.0	50.0	55.0	35	744x804x270	30
QR-X05D	500	80	220		60.0	65.0	50.0	55.0	38	824x904x270	41
QR-X06D	600	90	242		60.0	65.0	50.0	55.0	40	824x904x270	42
QR-X08D	800	100	410		60.0	65.0	50.0	55.0	42	1116x884x388	68
QR-X10D	1000	150	510		60.0	65.0	50.0	55.0	43	1116x1134x388	82
QR-X13D	1300	150	530		60.0	65.0	50.0	55.0	45	1116x1134x388	82
QR-X15DS	1500	160	1000	380V/3N/50Hz	60.0	65.0	50.0	55.0	51	1600x1200x540	200
QR-X20DS	2000	170	1200		60.0	65.0	50.0	55.0	53	1650x1400x540	225
QR-X25DS	2500	180	2000		60.0	65.0	50.0	55.0	55	1430x1610x600	240
QR-X30DS	3000	200	2100		60.0	65.0	50.0	55.0	57	1600x1700x640	270
QR-X40DS	4000	220	2400		60.0	65.0	50.0	55.0	60	1330x1725x1050	265
QR-X50DS	5000	240	3000		60.0	65.0	50.0	55.0	61	1660x1820x1050	280
QR-X60WS	6000	290	3600		60.0	65.0	50.0	55.0	70	1660x1820x1050	310
QR-X70WS	7000	310	4200		60.0	65.0	50.0	55.0	73	2060x1660x1168	360
QR-X80WS	8000	320	6000		60.0	65.0	50.0	55.0	74	2060x1660x1168	382
QR-X90WS	9000	340	7500		60.0	65.0	50.0	55.0	77	2310x1900x1200	500
QR-X100WS	10000	400	8000		60.0	65.0	50.0	55.0	78	2310x1900x1200	534

Notes: 1.Cooling test condition: indoor side 27°C DB, 19.5, WB; outdoor fresh air 35°C DB, 28°C;
2.Heating test condition: indoor side 21°C DB, 13, WB outdoor fresh air 5°C DB, 2°C;
3.The above data may be changed without notice for future improvement on quality and performance.

Heat Recovery Ventilator



Air Handler Unit



Features

Insulated cabinet

Galvanized steel with paint on all panels. Thermal insulator cover all inside panels to reduce heat and cooling losses and prevent condensed water accumulation.

Motor & Blower

Direct drive motors, 3-speed, provide selections of air flow to meet desired applications. Φ10" big fan, powerful wind.

Coil

"A" shape coils, constructed with copper tubing and enhanced aluminum fins.

Filter optional

Detachable air filter for cleaning or renewal.

Multi-position installation

Versatile 4-way convertible design for vertical up airflow, horizontal right airflow.

Specification

Model name	Power type	Capacity					Power input	Air flow		Sound level	ESP	Dimension(WxHxD)		Body Weight		Connecting pipe			Standard controller
		Cooling	Heating	Cooling	Heating			M³/h	CFM			Body	Packing	Net	Gross	Gas	Liquid	Drain	
		kW	kBtu/h	kW	kBtu/h	W				DB(A)	Pa	mm	mm	kg	kg	mm	mm	mm	
ZTVC-EAH71BY	60Hz	7.1	24.1	8.0	27.2	290	1500	882.3	51-54	25		774x520x460	834x520x565	36	39	Ø15.88	Ø9.52	Ø20	Wired Controller
ZTVC-EAH105BY	60Hz	10.5	35.7	11.5	39.1	290	1500	882.3	51-54	37		774x520x460	834x520x565	36	39	Ø15.88	Ø9.52	Ø20	Wired Controller
ZTVC-EAH160BY	60Hz	16.0	54.4	18.0	61.2	517	2500	1470.6	57-60	50		970x550x500	1030x560x595	48	52	Ø15.88	Ø9.52	Ø20	Wired Controller

Notes:1.Power supply:208-230V/1N/60Hz;
2.Cooling test condition: Indoor side 27°C DB, 19°C WB, outdoor side 35°C DB. Heating test condition: Indoor side 20°C DB, 15°C WB, Outdoor side 7°C DB;
3.Sound level: measured at a point 1 m in front of the unit outlet and at a height of 1 m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
4.The above data may be changed without notice for future improvement on quality and performance.

Controllers & Software

Wireless Controllers

Indoor unit address inquiry

Indoor unit address setting


Temperature setting

Operation mode setting

Fan speed setting

Timer function

Wired Controllers




ZKX-C/T/A-06TW

- Bidirectional communication. Indoor unit's operating parameters(error code, temperature, address)can be inquired and displayed on the controller.
- Compact design
- Timer function
- Fahrenheit/centigrade setting
- Address setting
- Press button tone setting

Touch Screen Wired Controller

- Air filter cleaning reminding function.
- Touch screen with black background and blue light
- Ultra thin body and stylish design meet high-end environments.
- On/off, temperature setting, fan speed setting, mode setting, timer and check function.



Simple Centralized Controller



Indoor unit operation state

Indoor unit control order

CSP-D184

- Easy to install. Controller connects to outdoor units only.
- 1 Controller can control max. 100 indoor units.
- Mode lock function, user can lock the running mode of indoor unit.
- Build in Modbus protocol.

Smart Manager

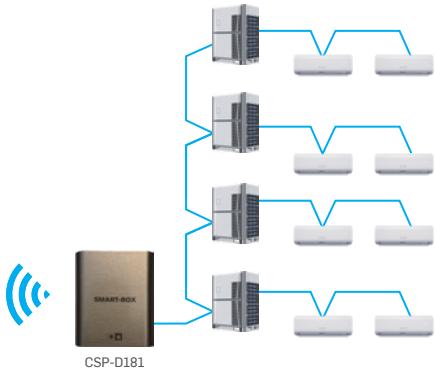
- Available on iOS and Android



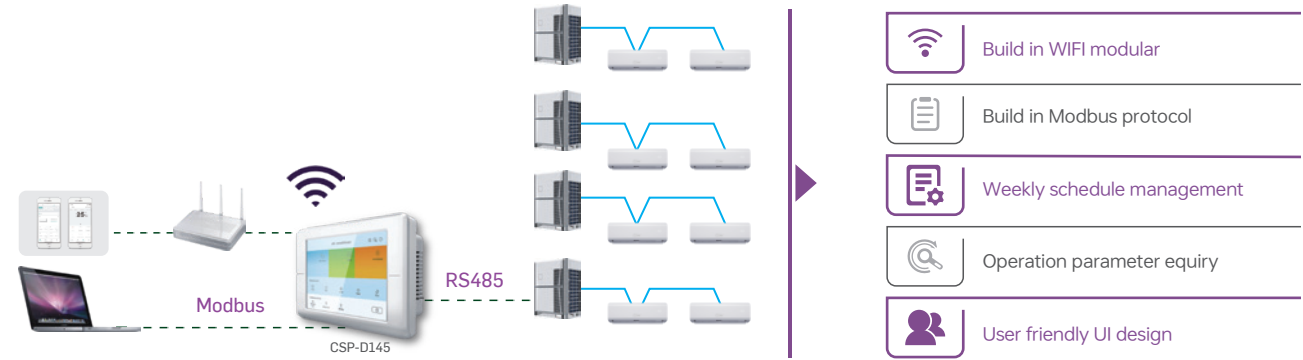
- Remote control via cloud server



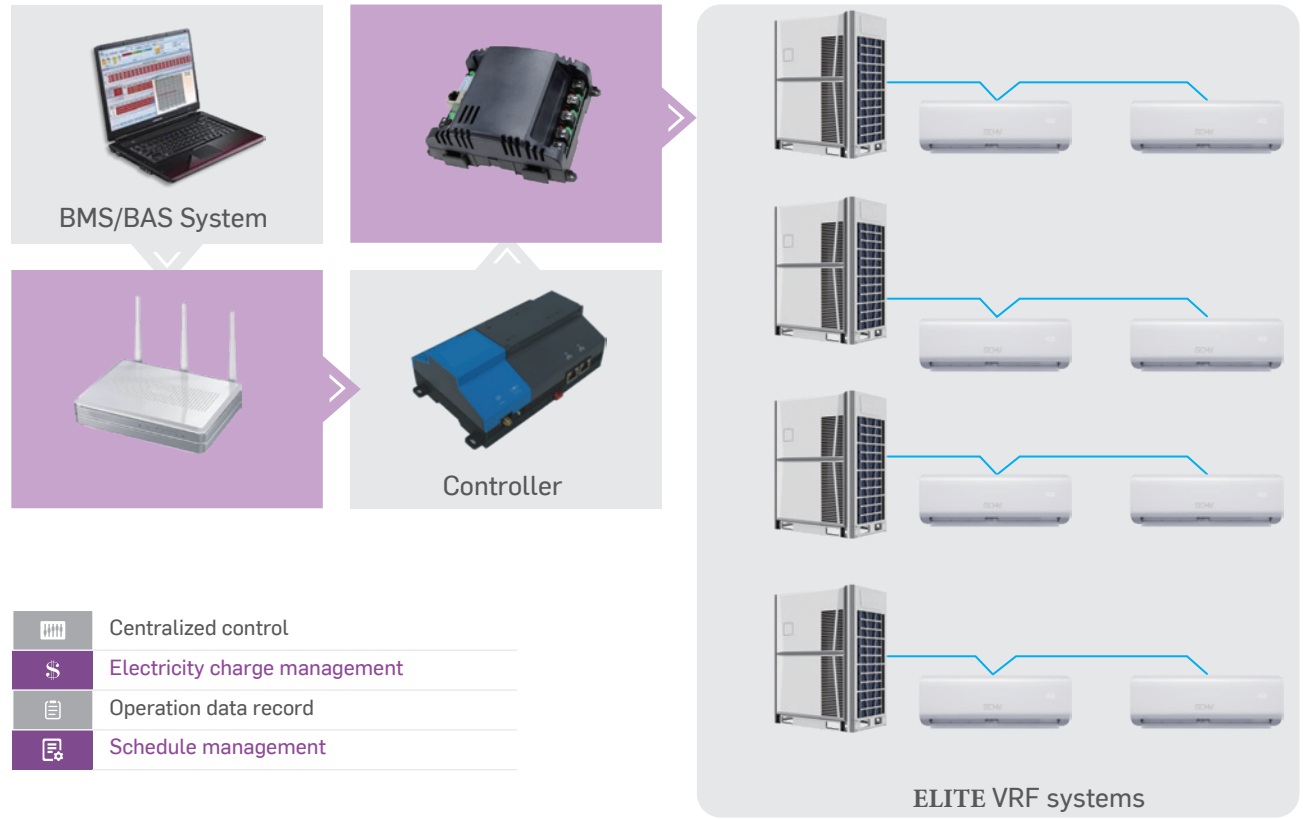
- Single unit controller or group control
- Weekly schedule management
- 100 indoor units can be controlled
- Operation parameter enquiry



Touch Screen Centralized Controller

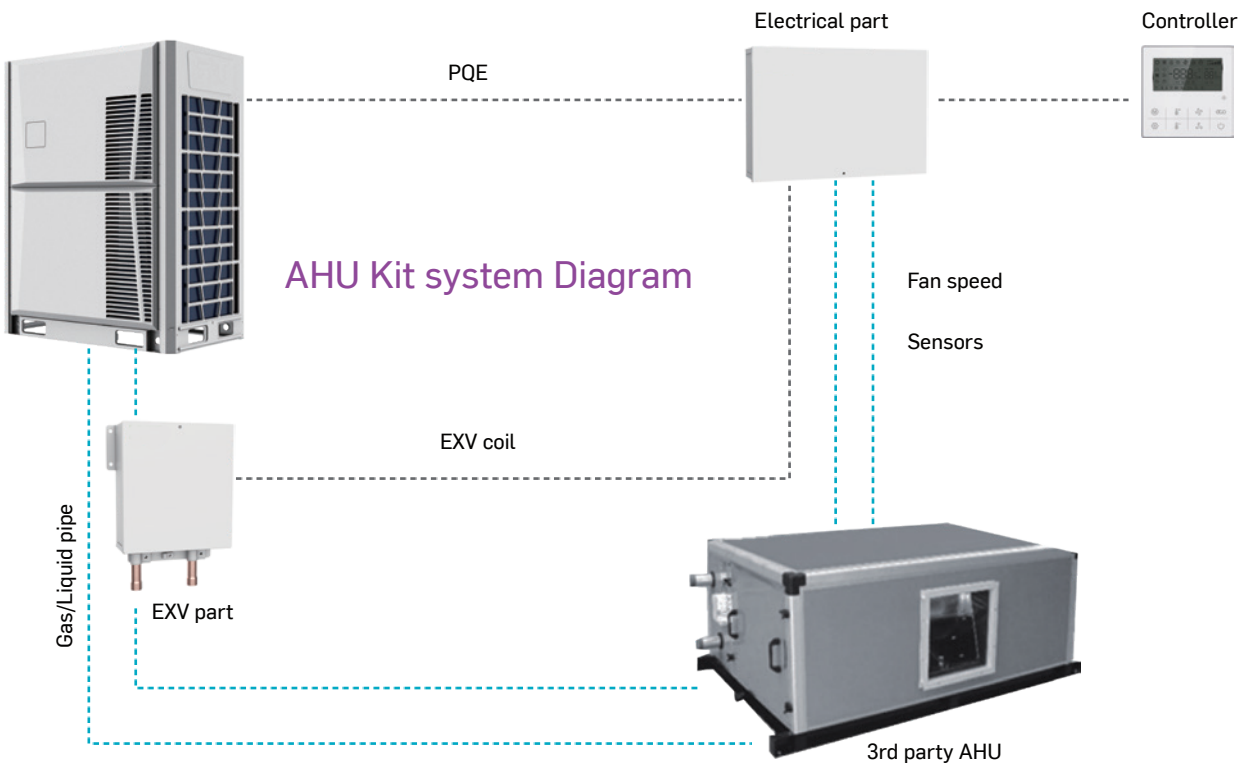
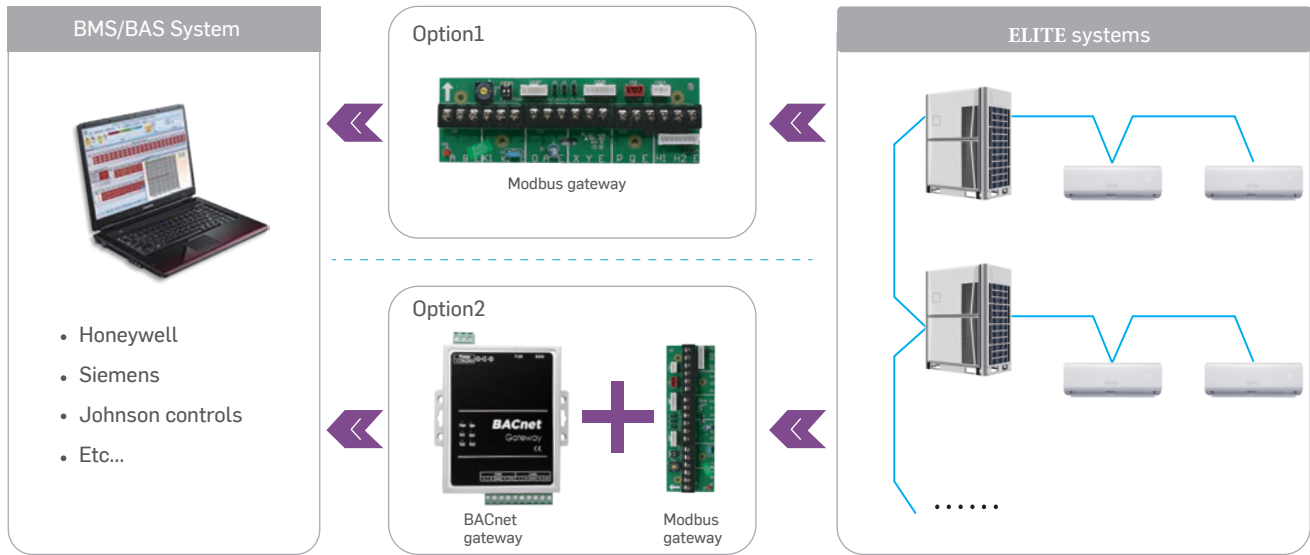


ZTVC-NET(Centralized Control System)



BMS Gateway

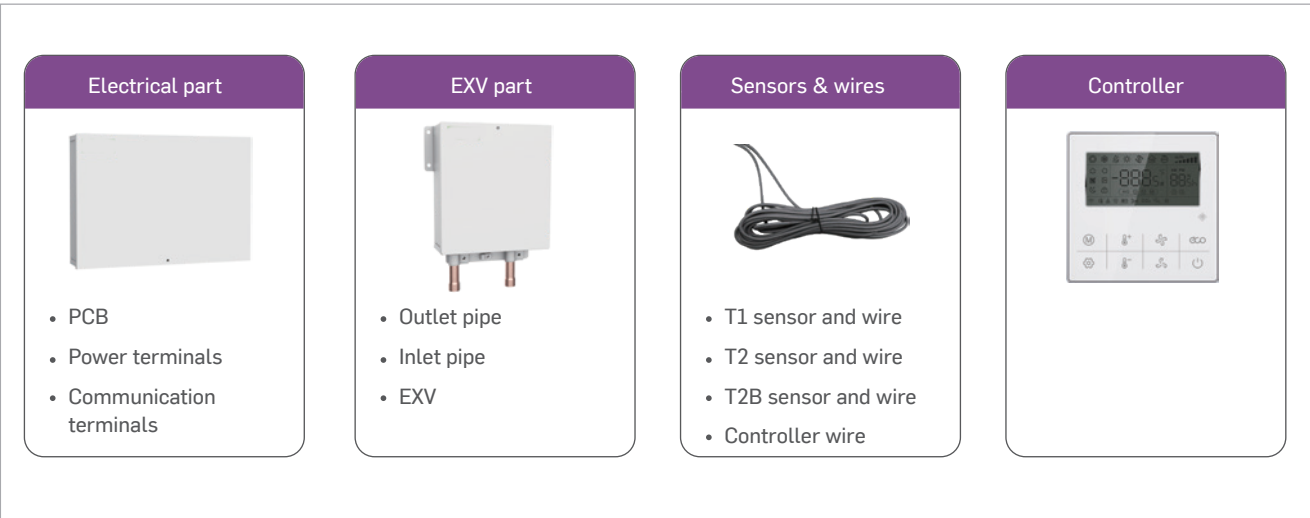
- Modbus gateway
- BACnet gateway
- Independent Modbus Box or built-in with outdoor unit.
- Connect with Modbus gateway, use BACnet IP protocol.



AHU Connection Kit

- ELITE AHU kit is an interface that allows 3rd party manufacturer's AHU connecting to ELITE VRF outdoor units.
- No address limit and automatic addressing.
- Split type, convenient for installation.
- One electrical part has one address and can max. connect 4 EXV parts.
- One AHU kit can max. connect up to 120HP.

ELITE AHU Kit



VRF Selection Software

The selection software provides a comprehensive selection of system design reports and calculations. Base on the units selected, the software produces detailed system layout and piping requirement calculations, greatly improves the work efficiency.

