





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

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































R&D Strength















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2002

Develop intelligent VRF system,enter VRF market



Successfully developed intelligent inverter VRF system



2013

Upgrade performance; launch more stable, energy saving, and more comfortable super DC inverter module

Launch new TRTVC system adopt the industry fourth generation core technology, both process and quality

Full DC inverter TRTVC- X was successful developed

VRF Development History



2020

TRACE COOL got Eurovent certification Launched New generation TRACE COOL



2018

Launched TRTVC-X+

2017 TRTVC-X got EUROVENT certification in 2017



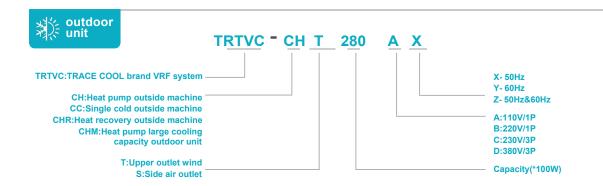
2016 Launched TRTVC-R

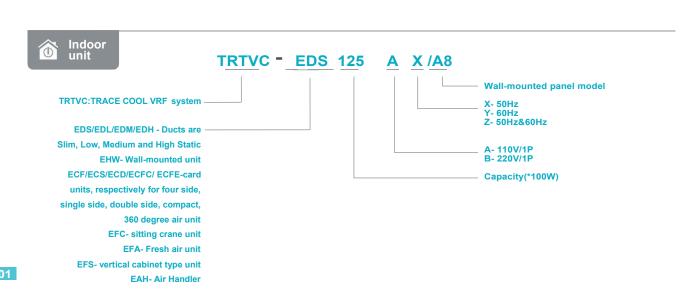
heat recovery VRF system

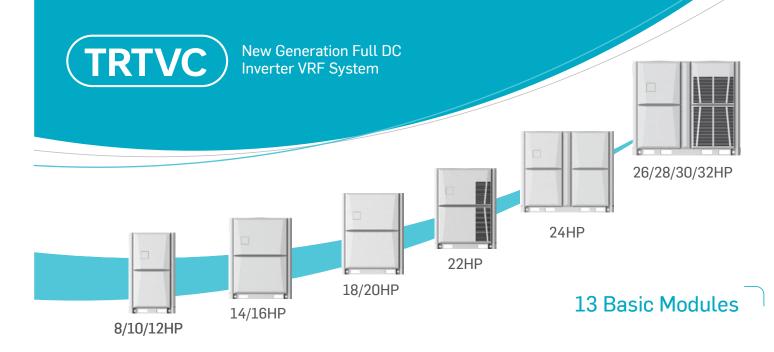


New TRTVC-C series launched with high efficiency and excellent performance

How To Read The Model Name

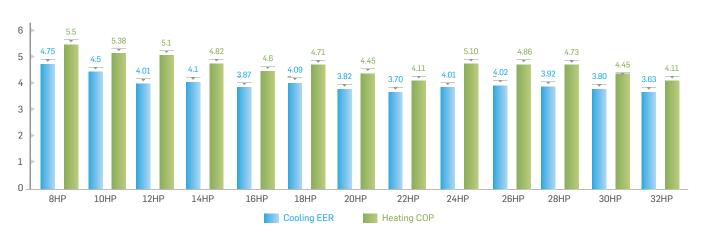




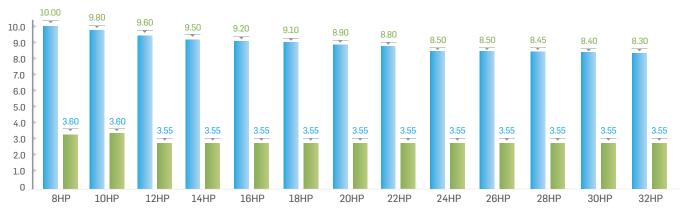


Capacity	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP
	25.2kW	28kW	33.5kW	40kW	45kW	50kW	56kW	61.5kW	67kW	73kW	78.5kW	85kW	90kW
V	V	V	V	V	V	V	~	V	V	V	V	V	V
Compressor	DC	DC	DC	DC	DC	DC	DC	DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC
Fan motor	DC	DC	DC	DC	DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC	DC+DC

EER&COP







[•] National Standard (GB 21454-2008)

Combination Table •

НР	Cooling Cap.(kW)	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP	28HP	30HP	32HP
ПР	Cap.(kW)		10111	12111		20111	20111	20111	22111	2	20111	20111	001 II	02111
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										•			•
	168.5										_	•		•
60 62	175												•	•
64	180												_	• •
66	184.5								0.00					••
									• • •	•				
68	190													
70	195.5								•	• •				
72 74	201.5						•		••			•		
							•							
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.

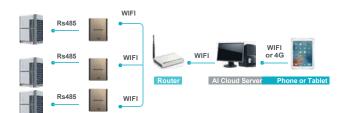
Long Piping & Height Difference

The total pipe length	1000 m	
The longest pipe length	200 /240m	The longest Height differen between outdo
Height difference	Outdoor unit above <100m Outdoor unit below <110m	pipe 200/240m unit and indoor units: 100/110m
Height difference between indoor units	40m	
Length from first indoor distributor to last indoor unit	90 m	Length from 1st distributor to indoor unit: 90m
Communication wire length	can be up to 1000m.	

Features

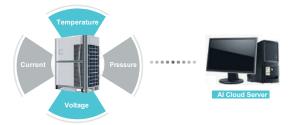
Long Distance Remote Control

Long distance remote control by phone or tablet.



Malfunction Forecasting

- Thanks to the Al 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

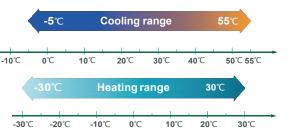
We use refrigerant to cool down inverter modular board to keep it in a safe condition even when outdoor temperature is up to 55℃.





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℃.



Power Saving Mode

In the cae 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:



- Extremely insufficient Slightly insufficient
- Slightly excess

Features

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

System can be unlock with password by authorized technician.

((•)) Wireless Communication(optional)

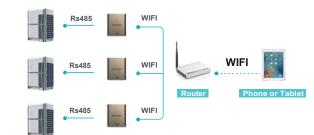
Wireless communication between indoor units. Wireless communication between indoor unit and outdoor unit.





On Site Diagnosis

Technician can do the commissioning & diagnosis by phone or





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)

TRTVC 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.



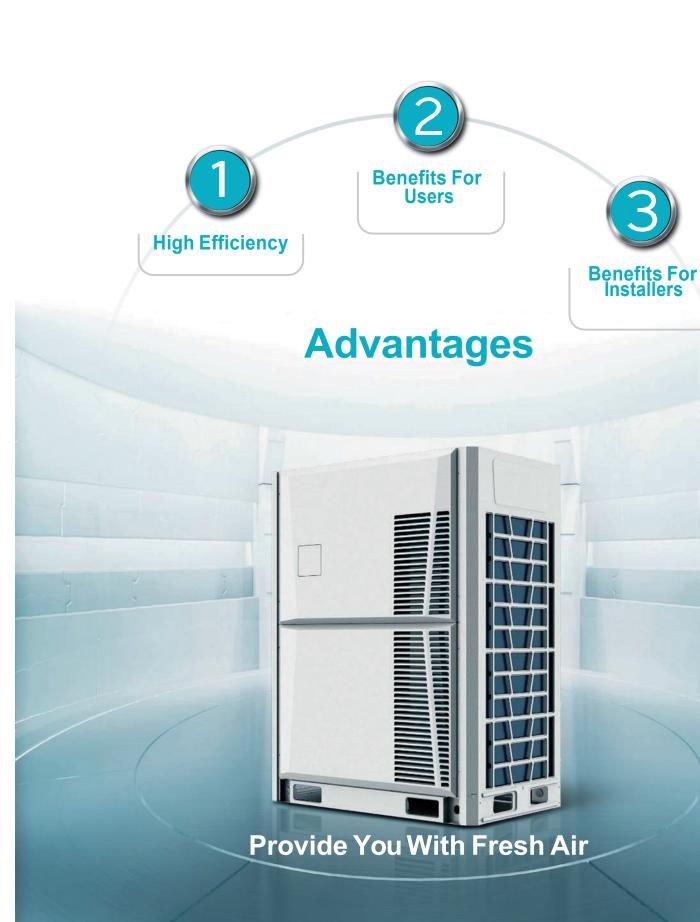




Max.3 outdoor units can be freely combined to become a larger unit. the maximum capacity of single system is 96HP.

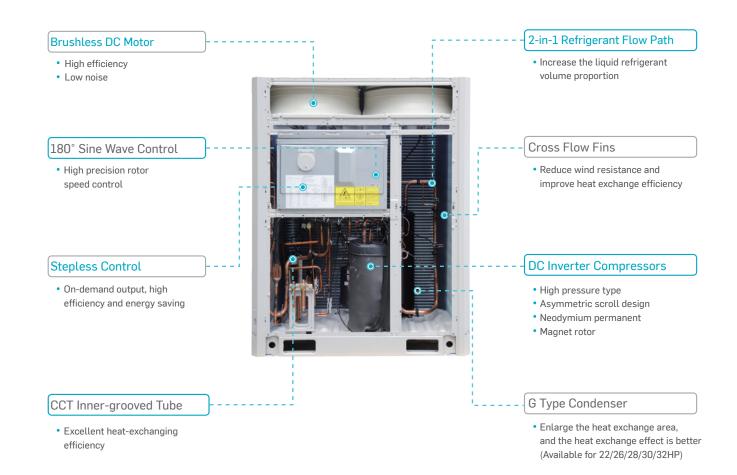
Maximum 96HP

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



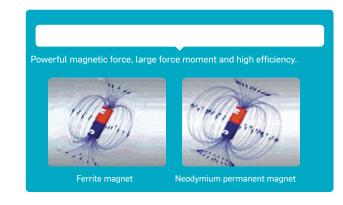


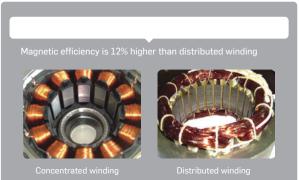
Core Technologies Make High Efficiency



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 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 effciency.
- High pressure chamber
- Has small suction superheat and high refrigerant volume effciency
- Has large refrigerant discharge buffer volume, low vibration and noise





Vapor injection pipe, better performance in low temperature.

igh strength bearing, high rigidity

Wide frequency range.

High Efficiency DC Motor

High efficiency DC fan motor is from well-known brand.

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Low noise and high efficiency because of high-density wire winding engineering.

(1)

Brushless with built-in sensor.



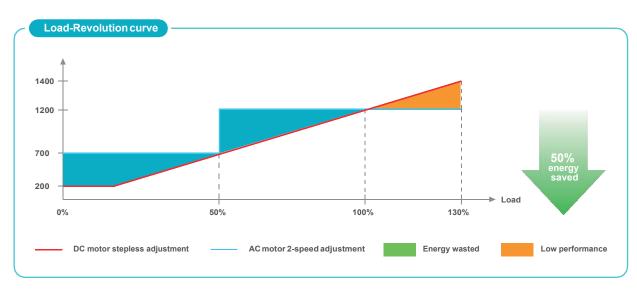


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Stepless Control

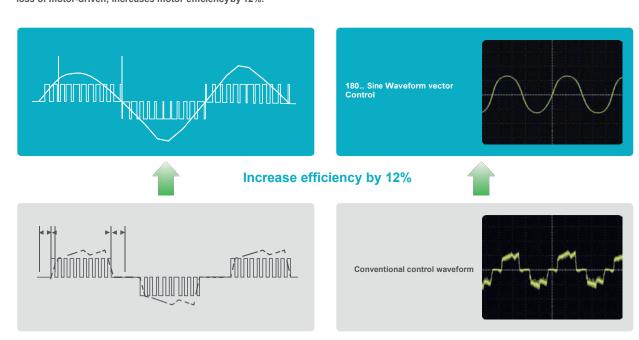
DC fan motor can be stepless contolled by outdoor PCB according to system's operating pressure. And it is able to reduce the energy consumption and maintain the system in the best performance.



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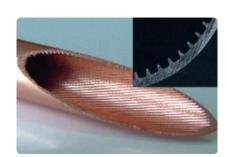
180 Sine Waveform Control

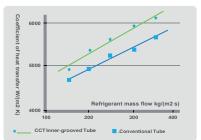
The perfect combination of 180 $_{\circ}$ Sine waveform rotor frequency drive control technology and excellent IPM inverters, reduces the reactive loss of motor-driven, increases motor efficiency by 12%.

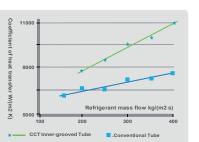


CCT Inner-grooved Tube

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

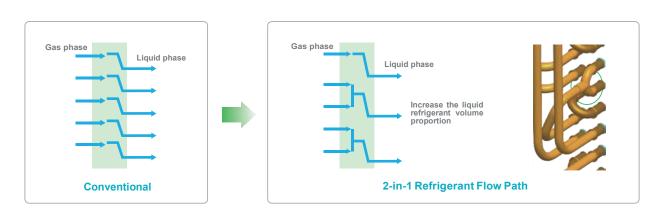


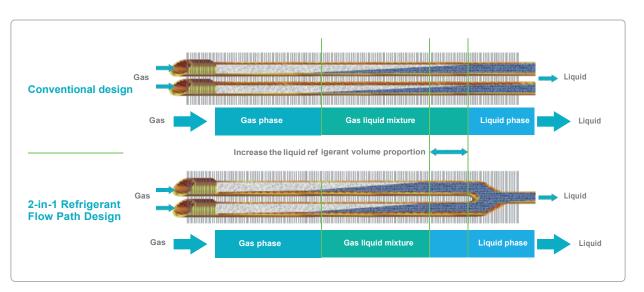




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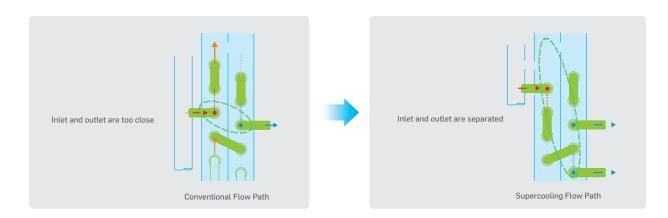
2-in-1 Refrigerant Flow Path Design





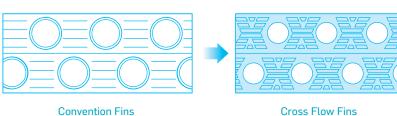
Supercooling Flow Path Design

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.



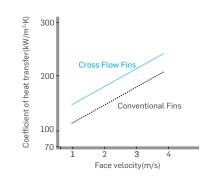
Cross Flow Fins

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



Cross Flow Fins

Original compressing cycle



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.

New structure cycle

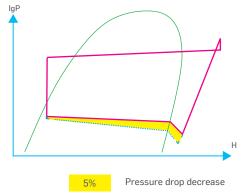


Plate Heat Exchanger

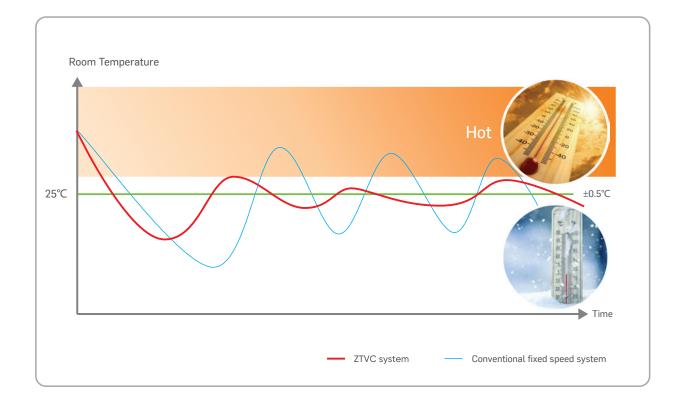
- Provides an additional sub cooling.
- Improved heat exchanger+Plate Heat Exchanger+Optimized control logic.
- Heating performance highly increased.



Benefits For Users Livable environment provider ZERO 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

- * TRACE COOL 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

- · Due to EVI technology, TRTVC's heating performance increased by 35% compare to conventional VRF system.
- Due to EVI technology, TRTVC still has 85% of rated capacity even in -15℃.



7 Improvements To Reduce Noise

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





Low Noise Fan Blade

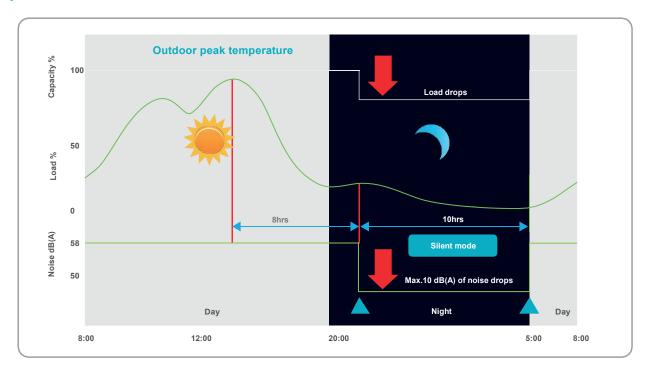
- Anti-vibration forward fan blade.
- Special design to reduce the air vibration and disturbance





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℃.



PHE

The PHE Economizer

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



◆ PHEEconomizer

The PHE economizer need customization.

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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.





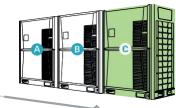


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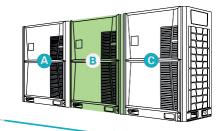
All Outdoor Units Cycle Operation



Time x: Start order:A→B→C



Time x+2: Start order:C→A→B



Timex+1:

Start order:B→C→A

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• In one combination system, any outdoor unit can run as master unit.

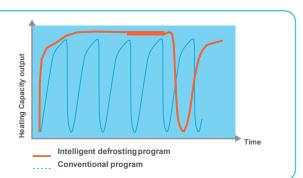
Balance the lifespan among outdoor units in one system.

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 morecomfortable





Remote ON/OFF Control Function

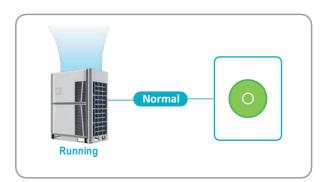
- Indoor units standard build in with ON/OFF control port.
- It can be used for hotel card control and also can be used for long distance remote ON/OFF control.
 And no need additional hotel VRF indoor unit control module.
- When contactor is open(card pulled out),indoor unit will be off can not be controlled,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

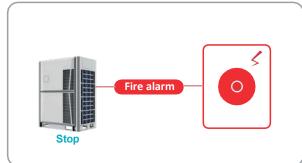




Emergency Stop Operation Function

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

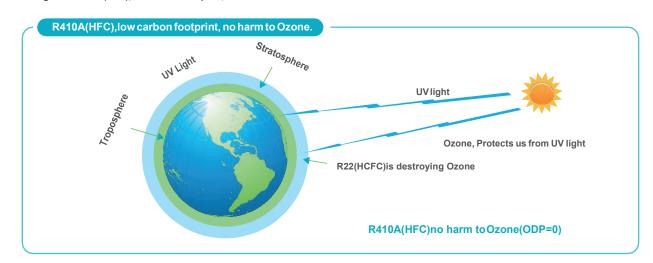




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Environment Friendly

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



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Benefits ForInstallers

Optimization for designer and installer

TRTVC DC inverter VRF system is designed with flexible modular combination concept,we keep optimizing the module size,reduce equipment on space occtupied 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



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

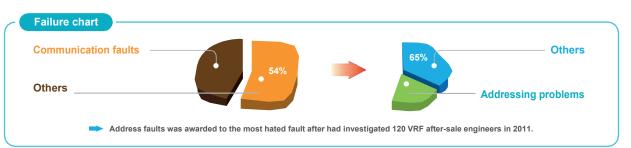


- Automatically addressing: system will distribute address to indoor unit automatically.
- Manually setting by wireless remote controller.
- Addressing method can be selected easily by adjusting the switch on outdoor PCB.



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.









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

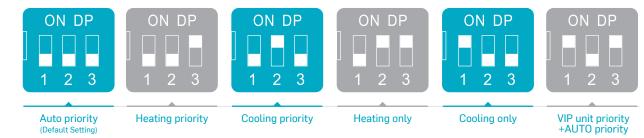
Thanks to the service window, checking outdoor unit's status and setting is now easy, no need to remove the electric control box cover.



Mode Restriction

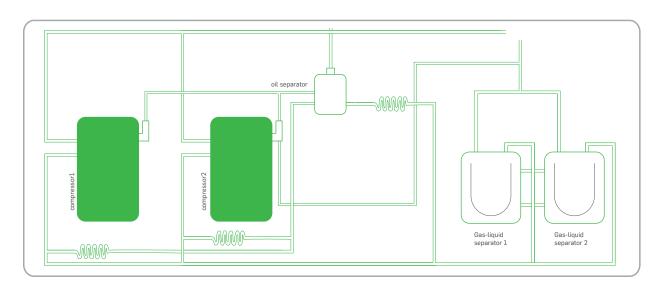
- 6 kinds of mode restriction
- Auto priority(Default Setting)
- Cooling(or heating)priority mode.
- Cooling only(or heating only)mode.
- VIP unit priority+AUTO priority mode

• Mode restriction function can be selected on the outdoor PCB.



5-Stage Oil Control





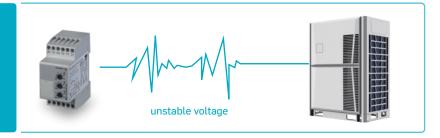
Humanized Internal Structure



- 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)

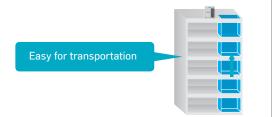




Easy Installation

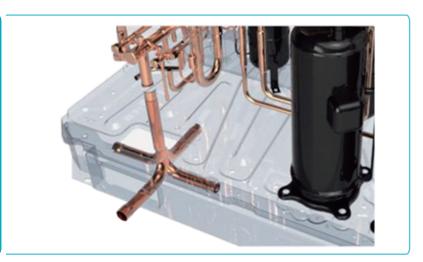
• Easy for the outdoor unit to transport to roof floor by elevator due to its compact size.





360° Pipe Connection

- The outlet pipe of the outdoor unit can be extended to all directions through the bottom space;
- No outlet pipe on the front can improve the aesthetics of installation;





Mod	el Name		TRTVC-CHT252DXPZ	TRTVC-CHT280DXPZ	TRTVC-CHT335DXPZ	TRTVC-CHT400DXPZ	TRTVC-CHT450DXPZ	
Pow	er Supply		380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz	380~415V/3N/50Hz	
Performance Data			•	•	•	•		
renormance Data		HP	QUD	10110	12110	1/110	1CUD	
		kW	8HP 25.2	10HP 28.0	12HP 33.5	14HP 40.0	16HP 45.0	
	Capacity	Btu/h	86000	95500	114000	136500	153500	
Cooling		RT	7.2	8.0	9.5	11.4	12.8	
occuring .	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	
		kW	27.0	31.5	37.5	45.0	50.0	
	Capacity	Btu/h	92100	107500	128000	153500	170600	
	Capacity	RT	7.7	9.0	10.7	12.8	14.2	
Heating	Rated current	Α	10.00	11.60	15.40	18.00	21.00	
3	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 consumptio		kW	13.96	13.96	13.96	17.83	18.80	
Max. Current		Α	24.0	24.0	24.0	29.0	31.7	
Capacity adjustment ra	ange				50%~130%			
Compressor Data			~					
	Quantity				1			
Compressor	Туре				Rotary Compressor			
	Brand				Mitsubishi			
Physical Data			~					
	Туре				R410a			
Refrigerant	Volume	Kg		9	11	14	4	
	Throttle type				EXV			
Dimension (WxHxD)	Net	mm		990x1740x840		1340x17	40x840	
(WXHXD)	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		Мра			4.5			
Piping Data	Transacia		~	· · · · · · · · · · · · · · · · · · ·		~	·	
Pipe size	Liquid pipe Gas pipe	mm		Ф12.7			D15.88	
	Total pipe length	mm		Ф22.2				
		m		1000			1000	
	ODU to farthest IDU (Acual length)	m		200		200		
Max. pipe length	ODU to farthest IDU (Equivalent length)	m		240			240	
	1st IDU distributor to farthest IDU	m		40/90		4	40/90	
	Between ODU & IDU (ODU above IDU)	m		100			100	
Max. vertical length	Between ODU & IDU (ODU below IDU)	m		110			110	
	Between IDUs	m		40			40	
	Between ODUs	m		0			0	
Operation Temperature	Range		~					
Cooling	Outdoor side	℃		-5~55		-	5~55	
Cooling	Indoor side	℃		16~32		1	.6~32	
Heating	Outdoor side	℃		-15~30		-1	15~30	
ricating	Indoor side	℃		16~32		1	6~32	

N	ote

^{1.} Cooling operating temperature range is from -5°C to 55°C (It can be customized down to -10°C). Heating operating temperature range is from -15°C to 30°C.

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

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

TVC-CHT500DXPZ	TRTVC-CHT560DXPZ	TRTVC-CHT615DXPZ	TRTVC-CHT670DXPZ	TRTVC-CHT730DXPZ	TRTVC-CHT800DXPZ	TRTVC-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
<u> </u>	•		· · · · · · · · · · · · · · · · · · ·			
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		36
			4.5			
	· ·	· · ·			· · · · ·	
		5.88			Ф22.2	
		28.6			Ф35.0	
	10	100			1000	
	2	00			200	
	2	40			240	
	40	/90			40/90	
	1		100			
		10		110		
		0			40	
		∪ ~			U ✓	
		-55			-5~55	
		-32			16~32	
		~30			-15~30	
					10 00	



380-415V/3N/50&60Hz NEW DC INVERTER VRF SYSTEM

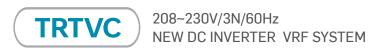
Model Nar	ne		TRTVC-CCT252DXP	TRTVC-CCT280DXP	TRTVC-CCT335DXP	TRTVC-CCT400DXP	TRTVC-CCT450DXP	
Power Sup	oply		380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380~415V/3N/50&60Hz	380-415V/3N/50&60Hz	
Performance	Data		~	<u> </u>		<u> </u>	<u> </u>	
		HP	8HP	10HP	12HP	14HP	16HP	
		kW	25.2	28.0	33.5	40.0	45.0	
	Capacity	Btu/h	86000	95500	114000	136500	153500	
Cooling		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 o	onsumption	kW	13.90	14.10	14.60	17.96	18.34	
Rated. curren	t	Α	24.0	24.5	25.2	30.2	31.0	
Capacity adju	stment range				50%~130%			
Compressor	Data		~					
	Quantity				1			
DC Inverter	Туре				DC /Twin-rotary			
compressor	Brand				Mitsubishi			
	Frequency range	Hz			10~120			
Physical Data			~					
	Туре				R410a			
Refrigerant	Volume	Kg	10			12	2.5	
Dimension	Net	mm		840x1740x990		840x174	40x1340	
(DxHxW)	Packing	mm		910x1900x1060		910x19	00x1410	
	Net	Kg		210		26		
Weight	Gross	Kg		220	27			
Outdoor soun		dB(A)	58			60	61	
	erating pressure	MPa	58			00	01	
Piping & Wir		i ii u	~		×			
	Liquid pipe	mm		Ф12.7			15.9	
Pipe size	Gas pipe	mm		Ф22.2		Ф28.6		
	Total pipe length			Ψ22.2	4	20.0		
	From OU to farthest IU(Actual	m m			200			
Max.	length) From OU to							
length	farthest IU (Equivalent length)	m			240			
	From 1st indoor distributor to farthest IU	m			90			
	Between OU & IU (OU above IU)	m			100			
Max. Vertical	Between OU & IU (OU below IU)	m			110			
tength	Between IUs	m			40			
	Between Ous	m			0			
Operation T	emperature Range		~					
	Outdoor side	°C			-5~55			
Cooling								
	Between Ous emperature Range		V		0			

Note

TRTVC-CCT500DXP	TRTVC-CCT560DXP	TRTVC-CCT615DXP	TRTVC-CCT670DXP	TRTVC-CCT730DXP	TRTVC-CCT800DXP	TRTVC-CCT850DXP
380~415V/3N/50&60Hz						
~	<u> </u>	~				
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 /Twin-rotary			
			Mitsubishi			
			10~120			
			R410a			
12.5	16	3.5	18.0	2	20.0	25.0
	840x174	40x1340			840x1740x1990	
		00x1410			910x1900x2060	
260	29		306		358	410
278		16	324		376	428
62	6		65		66	67
02	0	3	4.5	'	00	01
			4.0			
			.5.9			Ф22.2
						Ф22.2
		Ψ2	1000			Ψ35
			200			
			240			
			90			
			100			
			110			
			110			
			40			
			0			
			-5~55			
			16~32			

 $oldsymbol{5}$

 $[\]ensuremath{^{\star}}\xspace The above data may be changed without noitce for future improvement.$



Model Nar	me		TRTVC-CHT252CY	TRTVC-CHT280CY	TRTVC-CHT335CY	TRTVC-CHT400CY				
Power Sup	oply		208~230V/3N/60Hz	208~230V/3N/60Hz	208~230V/3N/60Hz	208~230V/3N/60Hz				
Performance	e Data		~	<u> </u>	<u> </u>	<u> </u>				
		HP	8HP	10HP	12HP	14HP				
		kW	25.2	28.0	33.5	40.0				
	Capacity	Btu/h	85000	93800	114000	136500				
Cooling		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				
	CER	kW	27.4			4.29				
	Conneity			31.5	37.5					
	Capacity	Btu/h	93500	107500	128000	153500				
Heating	B	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 adju	stment range			50%	-130%					
		1	V							
	Quantity				1					
Compressor	Туре		DC /Scroll							
	Brand			Mitsubishi						
Physical Dat			· · · · · · · · · · · · · · · · · · ·							
Refrigerant ty	pe/volume	kg		R410A/16						
Dimension	Net	mm		840x1740x1340						
Dimension (DxHxW)	Packing	mm		910x1900x1060		910x1900x1410				
	Net	kg		275						
Weight	Gross	kg		220		290				
Outdoor soun	d level	dB(A)		71						
	erating pressure	MPa		7.1						
Piping Data	rating process		4.5							
	Liquid pipe	mm		Ø12.7		Ø15.9				
Pipe size	Gas pipe	mm		Ø22.2		Ø28.6				
	Total pipe length	m		2						
	From OU to farthest IU(Actual	m			90					
Max. pipe length	length) From OU to farthest IU	m		7:	20					
terigeri	(Equivalent length) From 1st indoor			2.	20					
	distributor to farthest IU	m		4	0					
Max.	Between OU & IU (OU above IU) Between OU & IU	m			10					
Vertical (OU below IU) m				1.	10					
length	Between IUs	m		0						
	Between Ous	m			0					
Operation T	emperature Range		~							
Cooling	Outdoor side	°C			-55					
	Indoor side	°C			-32					
Heating	Outdoor side	°C			~30					
	Indoor side	°C		15	-30					

Moto

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

TRTVC-CHT450CY	TRTVC-CHT500CY	TRTVC-CHT560CY	TRTVC-CHT615CY
208-230V/3N/60Hz	208–230V/3N/60Hz	208-230V/3N/60Hz	208~230V/3N/60Hz
<u> </u>	· · · · · · · · · · · · · · · · · · ·	<u> </u>	· · · · · · · · · · · · · · · · · · ·
16HP	18HP	20HP	22HP
45.0	50.0	56.0	61.5
153500	169000	191000	209800
			17.5
12.8	14.1	16	17.62
11.12	12.68	15.32	
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%	
1		2	
	DC /	/Scroll	
	Mits	subishi	
R410A/16		R410A/20	
	840x17	740x1340	
		900x1410	
275	310/1	325	
290		340	
71		72	
/1		4.5	
	· · · · · · · · · · · · · · · · · · ·	×.	
		15.9	
		28.6	
		000	
	11	000	
	1	.90	
	2	220	
		40	
		90	
		110	
	:	30	
		0	
		i~55	
		7~32	
	-1!	5~30	
	15	5–30	

7



208~230V/3N/60Hz NEW DC INVERTER VRF SYSTEM

Model Nan	ne		TRTVC-CCT252CYP	TRTVC-CCT280CYP	TRTVC-CCT335CYP	TRTVC-CCT400CYP			
Power Sup	ply		208-230V/3N/60Hz	208-230V/3N/60Hz	208-230V/3N/60Hz	208-230V/3N/60Hz			
Performance	Data		~	· · · · · · · · · · · · · · · · · · ·	<u> </u>	· · · · · · · · · · · · · · · · · · ·			
		HP	8HP	10HP	12HP	14HP			
		kW	25.2	28.0	33.5	40.0			
	Capacity	Btu/h	86000	95500	114000	136500			
Cooling		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 co		kW	13.50	14.10	14.20	16.90			
Rated, current		A	40.0	42.0	45.0	50.0			
	stment range		40.0			50.0			
			\	50%	~130 %				
Compressor l									
	Quantity			DC = -	1				
OC Inverter compressor	Туре			DC /Twin-rotary Mitsuhishi					
	Brand		Mitsubishi 10-120 R410a						
	Frequency range	rps							
Physical Data			~						
Refrigerant	Туре			410a					
terrigerant	Volume	Kg		12					
Dimension	Net	mm		840x1740x990		840x1740x1340			
DxHxW)	Packing	mm		910x1900x1060		910x1900x1410			
Net		Kg		208		260			
Veight	Gross	Kg		218					
Outdoor sound	d level	dB(A)	5	58		60			
Maximum ope	rating pressure	MPa			4.5				
Piping & Wiri									
	Liquid pipe	mm		Ф12.7		Ф15.9			
Pipe size	Gas pipe	mm		Ф25.4		Ф31.8			
	Total pipe length				000	ΨJI.0			
		m		1	UUU				
Мах.	From OU to farthest IU(Actual	m		1	190				
мах. pipe	length)								
ength	From OU to farthest IU (Equivalent length)	m		2	220				
	From 1st indoor distributor to	m			90				
	farthest IU								
	Between OU & IU (OU above IU)	m		!	90				
Max.	Between OU & IU	m			110				
/ertical ength	(OU below IU)	111			-				
	Between IUs	m			30				
	Between Ous	m			0				
Operation To	। emperature Range		~						
	Outdoor side	℃		-5	~50				

Note

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

TRTVC-CCT450CYP	TRTVC-CCT500CYP	TRTVC-CCT560CYP	TRTVC-CCT615CYP	TRTVC-CCT670CYP
208-230V/3N/60Hz	208–230V/3N/60Hz	208-230V/3N/60Hz	208~230V/3N/60Hz	208-230V/3N/60Hz
· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> </u>	<u> </u>	<u> </u>
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		
<u> </u>				
		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		
~				
		Ф15.9		
		Ф31.8		
		1000		
		190		
		220		
		90		
		90		
		110		
		30		
		0		
~				
		-5~50		
		16~32		













26/28/33.5kW

8/10/12.5/14/16kW

12.5/14/16/18kW

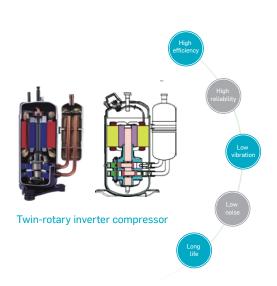
• Features

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 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 alternativere frigerant which can protect environment.

Low Vibration

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

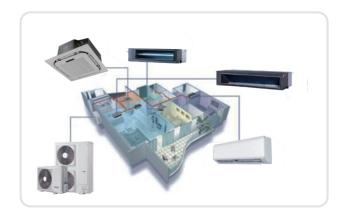
High Efficiency DC Motor



- 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

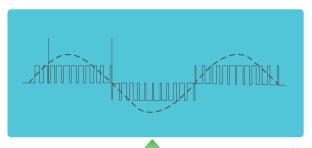
- $\bullet \ \ \text{Multiple indoor units can be connected to 1 outdoor unit, and long piping connection is also possible.}$
- Compare to one-drive-one type, the outdoor unit can be installed in various places to realize the space-saving installation.

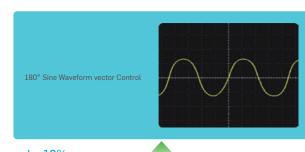




180° Sine Wave Control

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%.







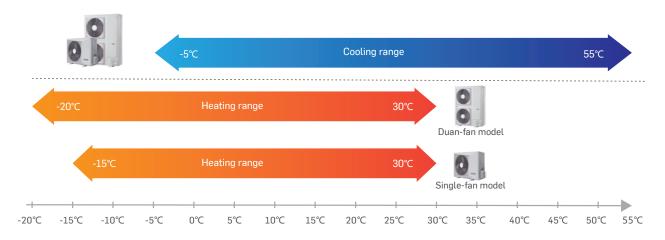


Low Noise



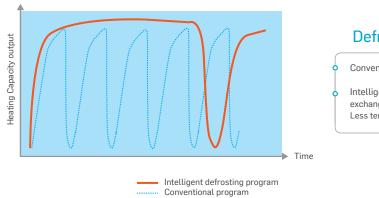
Wide Outdoor Operation Range

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





Rotation correct Can startup







Rotation incorrect Under protection Can not start



In standby, if the outdoor fan motor is rotating in opposite direction at a high speed by the wind or other natural factors, the unit can't start so as to keep the fan motor from broken down, it will start when the fan motor speed slow down.

Mode Restriction

- 7 kinds of mode restriction
- Auto priority(Default Setting)

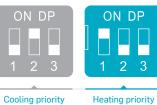
Cooling only mode

- · Cooling priority mode
- Heating only mode
- · Heating priority mode. VIP unit priority+AUTO priority mode
- First start mode

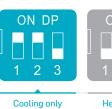
• Mode restriction function can be selected on the outdoor PCB.

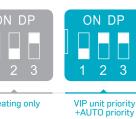




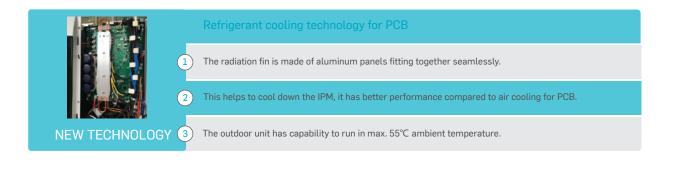








High Efficiency



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 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.

				Cooling			He	eating		Compr	essor	Mot	or	Refrig	erant	Sound pressure	Dimer (WxH)		Wei	ght	Connec	ting	Max Conn-
Model name	Power type	Cap	oacity	Power input	EER	Cap	acity	Power input	COP	Type	Otv	Туре	Otv	Туре	Volume	Level	Packing	Body	Net	Gross	Gas	Liquid	ected indoor
	(V/N/HZ)	kW	Btu/h	kW	EER	kW	Btu/h	kW	CUP	Туре	Qty	Туре	Ųty	Туре	kg	DB(A)	mm	mm	kg	kg	mm	mm	units quantity
						•																	
TRTVC-CHS125DX	380-415/3/50	12.5	42000	3.38	3.70	14	47000	3.26	4.29						3.45	56	1010	975	86.6	96.4			7
TRTVC-CHS140DX	380-415/3/50	14	47800	3.80	3.68	16	54000	3.97	4.03						3.8	56	X 1445	x 1335	86.6	96.4	Ф15.88		8
TRTVC-CHS160DX	380-415/3/50	16	54000	4.53	3.53	18	61000	4.61	3.91						3.8		X 415	x 400	90.1	100			9
TRTVC-CHS180DX	380-415/3/50	18	61000	5.18	3.47	20	68000	5.02	3.98	DC/ Twin		DC/			4.2	58	413	400	94.7	104.4		Ф9.52	10
TRTVC-CHS200DX	380-415/3/50	20	68200	5.92	3.38	22	75000	5.35	4.11	- IWIN	1	fan motor	2	R410a	5.3	56	1095x 1545x	1015x 1430x	112.7	126.8	Ф19.05		11
TRTVC-CHS224DX	380-415/3/50	22.4	76400	6.75	3.32	24	81800	5.62	4.27	rotary		motor			5.3		485	450 450	112.7	126.8			13
TRTVC-CHS260DX	380-415/3/50	26	88700	7.54	3.45	28.5	97200	6.77	4.21						6.1		1278	1120	142	162			15
TRTVC-CHS280DX	380-415/3/50	28	95500	8.31	3.37	31.5	107500	8.18	3.85						8.0	60	1703	1549	154	174	Ф22.2	Ф12.7	16
TRTVC-CHS335DX	380-415/3/50	33.5	114300	9.46	3.54	37.5	128000	8.99	4.17						8.0		560	528	154	174		Ψ12.1	19

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

ndoor Air Inlet Temperature: 20.0°C DB,Outdoor Air Inlet Temperature: 7°C DB / 6°C WB

-Single-fan-

	Madalasasa		TRTVC-CHS080BXP	TRTVC-CHS100BXP	TRTVC-CHS125BXP	TRTVC-CHS125DXP-D01	TRTVC-CHS140BXP	TRTVC-CHS140DXP-F01	TRTVC-CHS160BXP	TRTVC-CHS160DXP-F01
	Model name		TRTVC-CHS080BYP	TRTVC-CHS100BYP	TRTVC-CHS125BYP	TRTVC-CHS125DXP-D01	TRTVC-CHS140BXP	TRTVC-CHS140DXP-F01	TRTVC-CHS160BXP	TRTVC-CHS160DXP-F01
	Power input		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
	Power Supply		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
	~		V	×	V	V	V	V	V	V
Performa	nce data		~							
		kW	8	10	12.5	12.5	14	14	16	16
	Capacity	Btu/h	27300	34100	42600	42600	47800	47800	54600	54600
Cooling	Power input		2.60	3.00	3.20	3.20	3.75	3.75	4.75	4.75
	Rated current	Α	11.8	13.6	14.5	6.0	17.0	7.0	21.8	8.8
			3.08	3.33	3.91	3.91	3.73	3.73	3.37	3.37
		kW	9	11	14	14	16	16	17	17
	Capacity	Btu/h	30700	37500	47800	47800	54600	54600	58000	58000
Heating	Power input	kW	2.65	3.1	3.52	3.52	4	4	4.4	4.4
, v	Rated current	Α	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
Compress	sor data		~							
	Quantity		1	1	1	1	1	1	1	1
DC Inverter compressor	Туре		Twin-rotary							
compressor	Brand		Mitsubishi	GMCC	Mitsubishi	Highly	Mitsubishi	Highly	Mitsubishi	Mitsubishi
Fan data			\vee							
	Туре		DC							
Fan motor	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
ran blade	Air flow	m³/h	3300	4000	5500	4000	5500	5500	5500	5500
Physical o	data		~							
	Fin type		Hydrophilic Foil							
Outdoor coil	Number of rows		3	2	2	2.5	3	3	3	3
outdoor con	Tube type		Inner-grooved copper tube							
Refrigerant	Туре		R410a							
Kenigerani	Volume	kg	2.00	2.60	3.00	3.00	3.80	3.45	3.80	3.80
Dimension	Net	mm	935x702x383	1032x810x445	1100x870x528	1032×810×445	1100x870x528	1100x870x528	1100x870x528	1100x870x528
(WxHxD)	Packing	mm	975x770x420	1075x875x495	1140x965x540	1075×875×495	1140x965x540	1140x965x540	1140x965x540	1140x965x540
Weight	Net	kg	47	60	85	67.4	90	87.5	90	90
g.nc	Gross	kg	50	65	95	72.2	100	97.4	100	100
ODU sound leve	el	dB(A)	≤54	≤56	≤56	≤56	≤57	≤57	≤57	≤57
Operation ()	temp. range		~							
Cooling	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

- 1. The cooling conditions: indoor temp.:27°C DB(80.6°F), 19°C WB(60°F), outdoor temp.: 35°C DB(95°F) equivalent pipe length:5m drop length:0m.

 2. The heating conditions: indoor temp.: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 bove data may be changed without notice for future improvement on quality at performance.

Indoor Units line Up



Capacity	1-way cassette	2-way cassette	Round flow cassette	4-way cassette (Compact type)	Air Handler
(kW)					
				•	
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	Wall-mounted	Floor Ceiling	Short ceiling concealed ducted unit	Medium ESP ducted unit	High ESP ducted unit	Fresh air processor
(kW)					M	
V						
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



Features

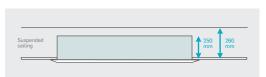
Accessories

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



Slim body, easy to install

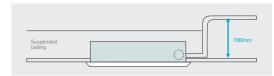
Has slim body with 250mm height, it is specially suitable for low suspended ceiling rooms.





Built-in with drainage pump

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



Specification -

			Сара	city		Motor	Air	flow	Sound	ESP		Dimensi	on(WxHxD)		Body \	Weight	Con	necting p	pipe	
Model name	Power type	Со	oling	He	ating	input	All	itow	Level	ESF	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	
TRTVC-ECS22BX	50Hz	2.2	7.5	2.5	8.5						1150	985	1090	1070			Ф9.53			
TRTVC-ECS28BX	50Hz	2.8	9.5	3.2	10.9	0.04	520	306	32~36		275	250	65 65	50	24/3.6	28/5.0	Ψ8.33			
TRTVC-ECS36BX	50Hz	3.6	12.2	4.0	13.6						645	513	540	520						
TRTVC-ECS45BX	50Hz	4.5	15.3	5.0	17.0	0.05	610	360	36~41	,	1460	1295	1405	1380			Ф12.7	Ф6.35	ОДФ25	Remote controller
TRTVC-ECS56BX	50Hz	5.6	19.1	6.3	21.4	0.07	750	0 440	35~41		305 680	290 553	70 × 575	50 x 560	35.5/5	40/7				
TRTVC-ECS71BX	50Hz	7.1	24.2	8.0	27.2	0.09	950		38~45		000	000	0.0	500			Ф15.9	Ф9.53		

1. Power supply: 220–240V/1N for 50Hz, 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

2. 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.

2-way Cassette



Features

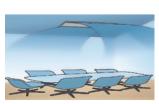
Accessories

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



2 way air direction

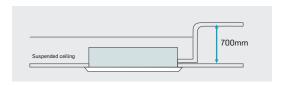
Two direction air flow, flexibly install in various rooms or hallway





Built-in with drainage pump

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



Specification •

			Capa	city		Motor	Air	flow	Sound	ESP		Dimensio	n(WxHxD)		Body	Weight	Con	necting p	pipe	
Model name	Power type	Coc	oling	Hea	ating	input	All	itow	Level	ESF	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
V	V	kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	mm	mm	kg ~	kg ~	mm	mm	mm	V
TRTVC-ECD45BX	50Hz	4.5	15.3	5.0	17	0.07 800	800	470	36-42		1215 × 360	1092 x 315	1205 x 75	1178 × 44	36/5	41/7	Ф12.7	Ф6.35		
TRTVC-ECD56BX	50Hz	5.6	19.1	6.3	21.4		000	470	30 42	,	630	X 548	x 655	630	30/3	41//	Ψ12.7	Ψ0.55	ОДФ25	Remote
TRTVC-ECD71BX	50Hz	7.1	24.2	8.0	27.2	0.10 1120	1120	650	40~46	,	1455 x 360	1332 x 315	1445 x 75	1420 x 44	48/6	42.5/8.5	Ф15.9	Ф9.53	υμνεσ	controller
TRTVC-ECD80BX	50Hz	8.0	27.2	9.0	30.7	0.10	1120	000	40-40		x 630	x 548	x 655	x 630	40/0	42.0/8.5	+ 10.0	+ 0.00		

1.Power supply: 220–240V/1N for 50Hz, the above data is for AC motor model.

2.Cooling test condition: indoor side 27°C DB, 19°CWB 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



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.



Built-in with drainage pump

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

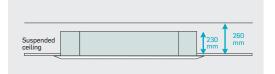
Note: The pumping head of 4-way cassette unit (compact type)is 700mm.





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



Specification -

4-way Cassette Unit(Compact type)

			Сара	city		Power	Air	flow	Sound	ESP		Dimensio	n(WxHxD)		Body V	Veight	Cor	nnecting	pipe	Gi i
Model name	Power type	Co	oling	He	ating	input	All	itow	Level	ESF	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	
TRTVC-ECFC22BX	50Hz														425					
TRTVC-ECF22BY	60Hz	2.2	7.5	2.5	8.5	0.038	447	263	22~34						17.5	23	#0.50			
TRTVC-ECFC28BX	50Hz	0.0	0.5		10.0	0.000		000	00.07		755	653	750	650	17.5	00	Ф9.52			
TRTVC-ECF28BY	60Hz	2.8	9.5	3.2	10.9	0.038	447	263	22~34	١,	x	X	X	X	17.5	23		#0.05	00.00	Remote
TRTVC-ECFC36BX	50Hz	0.0	10.0		10.0	0.040	515	000	07.00	/	375 x	267 x	95 x	30 x	17.5	00		Ф6.35	ОДФ25	controller
TRTVC-ECF36BY	60Hz	3.6	12.2	4.0	13.6	0.040	915	303	27~38		680	585	750	650	17.5	23				
TRTVC-ECFC45BX	50Hz	4.5	15.3	5.0	17	0.040	515	303	27~38						17.5	23	Ф12.7			
TRTVC-ECF45BY	60Hz	4.5	10.3	5.0	1/	0.040	919	303	21~38						17.5	23				

Round-flow Cassette

			Capa	city		Power	Air t		Sound	ESP		Dimension	n(WxHxD)		Body V	Veight	Con	necting	pipe	
Model name	Power type	Coo	ling	Hea	iting	input	Air	tow	Level	ESP	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
v v	~	kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	mm	mm	kg	kg ~	mm	mm	mm	V
TRTVC-ECFE56BX	50Hz																			
TRTVC-ECFE56BY	60Hz	5.6	19.1	6.3	21.4	0.043	860	500	32~39		920	833			24	30	Ф12.7	Ф6.35		
TRTVC-ECFE71BX	50Hz	71	2/2	0.0	27.2						x 265	x 232			2/	20				
TRTVC-ECFE71BY	60Hz	7.1	24.2	8.0	27.2	0.093	1200	700	35~39		x 985	x 900			24	30				
TRTVC-ECFE80BX	50Hz	8.0	27.2	8.8	30	0.093	1200	700	33~38		985	900			24	30				
TRTVC-ECFE80BY	60Hz	0.0	21.2	0.0	30										24	30				
TRTVC-ECFE90BX	50Hz	9.0	30.7	10.0	34.1										28.5	35				
TRTVC-ECFE90BY	60Hz	5.0	30.7	10.0	34.1								1030	950	20.5	33				
TRTVC-ECFE100BX	50Hz	10.0	34.1	11.0	37.5								Х	x	28.5	35			405	Remote
TRTVC-ECFE100BY	60Hz	10.0	34.1	11.0	37.3		1/00	000	07 (1	/			100 x	50 x	20.0	33	Ф15.88	m9 52	Ф25	controller
TRTVC-ECFE112BX	50Hz	11.2	38.2	12.5	42.6		1400	820	37~41		920	833	1030	950	28.5	35	Ψ13.00	Ψ5.52		
TRTVC-ECFE112BY	60Hz	11.2	30.2	12.0	42.0	0.160					x 310	x 286			20.5	33				
TRTVC-ECFE125BX	50Hz	12.5	42.6	14.0	47.7	0.100					x 985	900			28.5	35				
TRTVC-ECFE125BY	60Hz	12.0	42.0	14.0	47.7										20.5	33				
TRTVC-ECFE140BX	50Hz	14.0	47.7	15.0	51.1										28.5	35				
TRTVC-ECFE140BY	60Hz	14.0	77.7	13.0	31.1		1800	1050	38~46						28.5	33				
TRTVC-ECFE160BX	50Hz	16.0	54.5	17.0	58		1000	1030	30.940						28.5	35				
TRTVC-ECFE160BY	60Hz	10.0	54.5	11.0	28										28.5	33				

- 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

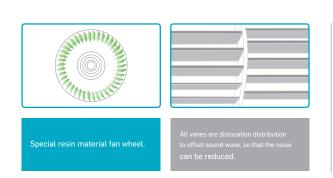
Air return method is optional by actual installation, from rear or from bottom.

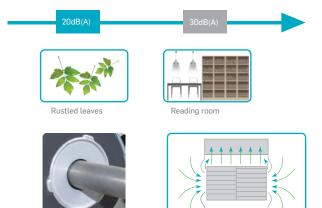




Sig air flow low noise centrifugal fan wheel

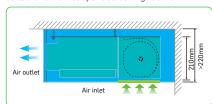
Big air flow low noise centrifugal fan blade with special air tunnel system, and the unique shock absorption measures, making this series ducted units' running noise is as low as 24 dB(A), let users to enjoy the comfort, sleep without any disturbance.





Slim body, easy to install

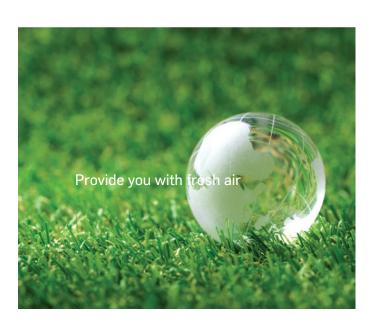
Has slim body with 210mm height, it is specially suitable for low suspended ceiling rooms.









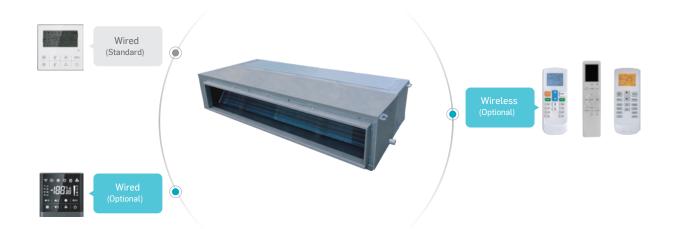


Specification -

			Сара	acity		Rated			Sound			Dimension	n(WxHxD)		Body V	Veight	Cor	necting	oipe	
Model name	Power type	Cod	oling	Hea	ating	input	Air	flow	Level	ESP	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	
		_	_	_	_	_	_	_		_					_	_	_		_	
TRTVC-EDL22BX	50Hz	2.2	7.5	2.5	8.5										17.5	20.0				
TRTVC-EDL22BY	60Hz	2.2	1.5	2.0	0.5	0.00	450	260	24~29						11.5	20.0	Ф9.52			
TRTVC-EDL28BX	50Hz	2.8	9.5	3.2	10.0	0.08	450	200	24~29						17.5	00.0	Ψ9.52			
TRTVC-EDL28BY	60Hz	2.8	9.5	3.2	10.9						910 x	814 x			17.5	20.0				
TRTVC-EDL36BX	50Hz		400		400		550	00/	05.00		240 x	210 x			400					
TRTVC-EDL36BY	60Hz	3.6	12.2	4.0	13.6	0.11	550	324	25~32	25~32	510	467			18.0	20.5		Ф6.35		
TRTVC-EDL45BX	50Hz		45.0			0.11	620	360	22 27	30			/	/	400				ОDФ25	Wired controller
TRTVC-EDL45BY	60Hz	4.5	15.3	5.0	17		620	360	32~37						18.0	20.5	Ф12.7			
TRTVC-EDL56BX	50Hz	5.6	19.1	6.3	21./	0.16	800	520	28~38		1110 X 240	1010 210			21.5	24.5				
TRTVC-EDL56BY	60Hz	5.0	19.1	0.3	21.4	0.10	800	520	20~30		510	467			21.5	24.5				
TRTVC-EDL71BX	50Hz	7.1	24.2	8.0	27.2	0.18	1000	640	30~39		1310 X 240	1214 X 210			26.5	30.0	Ф15.88	Φ9 52		
TRTVC-EDL71BY	60Hz					0.10	1000	040	30~38		510	467			20.0	30.0	Ψ10.00	Ψ0.02		

- 1.Power supply: 220-240V/1N for 50Hz;208-230V/1N for 60Hz, the above data is for AC motor model.
- $2. Cooling \ test \ condition: indoor \ side \ 27^{\circ}C \ DB, 19^{\circ}C \ WB \ outdoor \ side \ 35^{\circ}C \ DB. \ Heating \ test \ condition: indoor \ side \ 20^{\circ}C \ DB, 15^{\circ}C \ WB \ outdoor \ side \ 35^{\circ}C \ DB.$
- 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

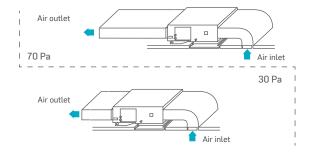
Accessories

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



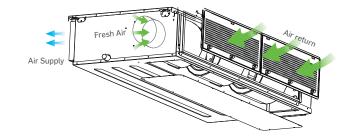
Static pressure

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





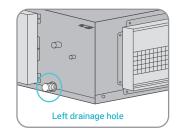
A reserved outside air intake port allows outdoor air to be introduced directly into the unit, no need for a seperate ventilation system.

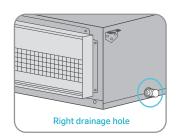




Convenient in drainage pipe installation

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.

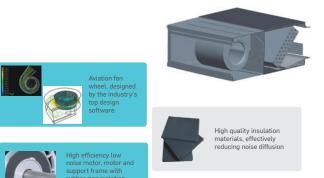






Low noise design

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.



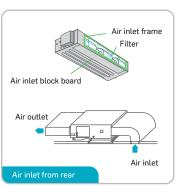


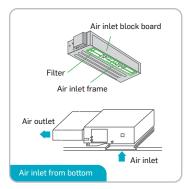
The power consumption of DC fan motor can be reduced greatly in comparison to corresponding $\,$



Two air return installation methods

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





Specification •

disturbance to lower the noise.

			Capa	city		Rated			Sound			Dimensio	on(WxHxD)		Body '	Weight	Cor	necting	pipe	
Model name	Power type	Cod	oling	Hea	ating	input	Air	flow	Level	ESP	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	mm	mm	kg	kg	mm	mm	mm	~
TRTVC-EDM71BX	FOLL	_		_	_		_	_	_	_		•	_	_	_	_	_	_	_	_
TRTVC-EDM71BY	50Hz	7.1	24.2	8.0	27.2						1255	1209			33	37				
	60Hz						1220	710	36~41		x 325	x 260								
TRTVC-EDM80BX	50Hz	8.0	27.2	9.0	30.7						x 720	x 680			33	37				
TRTVC-EDM80BY	60Hz	0.0	21.2	9.0	30.7						720	000			00	31				
TRTVC-EDM90BX	50Hz																			
TRTVC-EDM90BY	60Hz	9.0	30.7	10.0	34.1	0.40	1850	1080	38~43	=0					46	50		+0.50		Wired
TRTVC-EDM100BX	50Hz					0.40				70	1490	1445	/	/			Ф15.88	Ф9.52	ОDФ25	controller
TRTVC-EDM100BY	60Hz	10.0	34.1	11.0	37.5						x	x			46	50				
TRTVC-EDM120BX	50Hz						2000	1170	40~44		325 x	260 x								
TRTVC-EDM120BY	60Hz	12.0	40.9	13.0	44.3		2000	11/0	40~44		720	680			46	50				
TRTVC-EDM150BX	50Hz																			
TRTVC-EDM150BY	60Hz	15.0	51.1	17.0	58										46	50				

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

 $2. Cooling \ test \ condition: \ indoor \ side \ 27^{\circ}C \ DB, 19^{\circ}C \ WB \ outdoor \ side \ 35^{\circ}C \ DB. \ Heating \ test \ condition: \ indoor \ side \ 20^{\circ}C \ DB, 15^{\circ}C \ WB \ outdoor \ side \ 7^{\circ}C \ DB.$

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

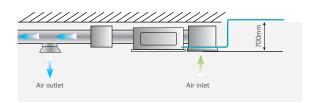
Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
Standard	Standard	Standard	Optional	Standard	1



Optional water pump

Slim body, saving suspended ceiling spaces. And water pump is optional, pump head up to 700mm





Can be used with various diffusers











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

Spiral diffuser

Linear diffuser

High static pressure

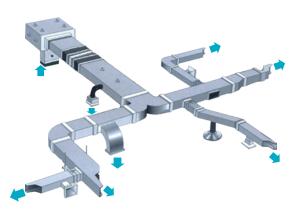
Big air flow with high static pressure, easy for large rooms duct design. Suitable for different shape of rooms.







High static pressure ducted unit



Long distance multi-point air supply

-Specification-

			Сара	acity	input Air flow Sound ESP						Dimension((WxHxD)	Body V	/eight	Cor	necting	pipe	
Model name	Power type	Coo	ling	Hea	ating	input	Air	low		ESP	Packing	Body	Net	Gross	Gas	Liquid	Drain	Standard controller
		kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	kg	kg	mm	mm	mm	
	. —	•	•	•	•	_	•	•	•	~	•	•	•	•	•	•	•	•
TRTVC-EDH71BX	50Hz	7.1	24.2	7.8	26.6													
TRTVC-EDH71BY	60Hz										1490	1445						
TRTVC-EDH80BX	50Hz	8.0	27.2	8.8	30	0.40	1500	880	40~42		x 325	x 260	46	50				
TRTVC-EDH80BY	60Hz	0.0	21.2	0.0	50	0.40	1000	000	40 42		x 720	x 680	40	50				
TRTVC-EDH90BX	50Hz	9.0	30.7	10.0	34.1						720	680						
TRTVC-EDH90BY	60Hz	3.0	30.7	10.0	34.1										Φ1E 00	Ф9.52	ODMOE	
TRTVC-EDH100BX	50Hz	10.0	34.1	11.0	37.5										Ψ13.00	Ψ9.52	ΟυΨ25	
TRTVC-EDH100BY	60Hz	10.0	34.1	11.0	31.5						1245	1190						
TRTVC-EDH120BX	50Hz	10.0	40.0	10.0							x	x	.,,	F1				
TRTVC-EDH120BY	60Hz	12.0	40.9	13.0	44.3	0.50	2300	1350	44~52	150	445 x	370 x	47	51				
TRTVC-EDH150BX	50Hz	45.0		470							655	620						Wired
TRTVC-EDH150BY	60Hz	15.0	51.1	17.0	58.0													controller
TRTVC-EDH200BX	50Hz				75.0													
TRTVC-EDH200BY	60Hz	20.0	68.2	22.0	75.0	1.72	4000	2350	45~53		1510x580x870	1465x448x811						
TRTVC-EDH200BXD	50/60Hz	20.0	68.2	22.0	75.0	1.20	3750	2200	45~50		1515x885x580	1440x811x448						
TRTVC-EDH250BX	50Hz	05.0	05.0	07.5	00.0	4.70		0.170										
TRTVC-EDH250BY	60Hz	25.0	85.3	27.5	93.8	1.72	4200	2470	45~54		1510x580x870	1465x448x811	102	113	Ф22.2	Ф12.7	ОDФ30	
TRTVC-EDH250BXD	50/60Hz	25.0	85.3	27.5	93.8	1.20	3750	2200	46~51		1515x885x580	1440x811x448						
TRTVC-EDH280BX	50Hz	28.0	95.5	30.8	105.0	1.72	4400	2500	45~55									
TRTVC-EDH280BY	60Hz	20.0	95.5	30.0	105.0	1.72	4400	2580	45~55		1510x580x870	1465x448x811						
TRTVC-EDH280BXD	50/60Hz	28.0	95.5	30.8	105.0	1.30	4100	2400	48~52		1515x885x580	1440x811x448						
TRTVC-EDH450BX	50Hz	45.0	153.5	50.0	170.6	0.00	0000	0500	00		0007	0105						
TRTVC-EDH450BY	60Hz	45.0	100.5	50.0	170.6	2.60	6000	3520	60	200	2267 ×	2165 _x	222	260	Φ28 E	Ф15.88	UDW33	
TRTVC-EDH560BX	50Hz	56.0	191.0	63.0	214.9	0.40	2000	/700	0.4	200	840 x	676 x		200	420.0	¥10.00	JD432	
TRTVC-EDH560BY	60Hz	50.0	191.0	03.0	214.9	3.40	8000	4/00	64		1050	916						

- 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

Flexible in installation

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



Hotel card function

of decoration style.

Refrigerant pipe can be connected from 3 directions.

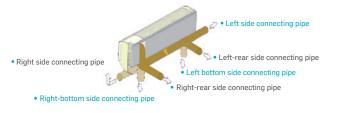
Hotel card interface is standard, which are designed to save energy by only running appliances while guest are present in their room.

2 panels can be chosen, suitable for all

Simple, elegant, stylish, mirror design, suitable for all kinds

kinds of decoration style





Specification -

Model			TRTVC-EHW22DBZ/GSB	TRTVC-EHW28DBZ/GSB	TRTVC-EHW36DBZ/GSB	TRTVC-EHW45DBZ/GSB	TRTVC-EHW56DBZ/GSB	TRTVC-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
	V			V	V	V	V	~
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
Capacity	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	Туре		DC	DC	DC	DC	DC	DC
ran motor	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	Net	mm	864x300x200	864x300x200	864x300x200	972x320x215	972x320x215	972x320x215
(WxHxD)	Packing	mm	945x375x290	945x375x290	945x375x290	1060x400x310	1060x400x310	1060x400x310
Body weight	Net/Gross	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	e	mm	Ф6.35/Ф9.52	Ф6.35/Ф9.52	Ф6.35/Ф12.7	Φ6.35/Φ12.7	Ф6.35/Ф12.7	Ф9.52/Ф15.88
Drainage water pipe (Outer diameter)	е	mm	Ф20	Ф20	Ф20	Ф20	Ф20	Ф20
Operation temperat	ture	°C	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°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 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

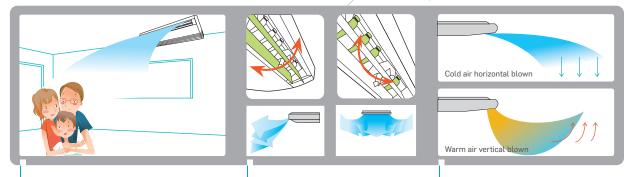
Flexible installation

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





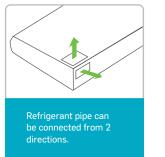
Wide angle air supply



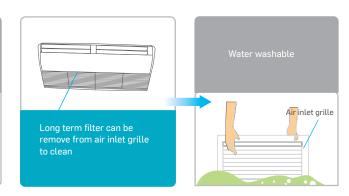
Configured with low noise high performance centrifugal fans, has big air flow and long distance air supply.

3 dimensional air supply, wide air supply angle, easily supply to every In Cooling mode, cold air is blown from horizontal. In heating mode, warm air is blown from vertical.

Easy for installtion









Two kinds of grilles for selection







-Specification -

			Сара	city			Ain	fl		Dimension	(WxHxD)	Body W	/eight	Con	necting p	oipe	
Model name	Power type	Co	oling	Hea	ating	Power input	Air	flow	Sound Level	Packing	Body	Net	Gross	Gas	Liquid	Drain	Standard controller
<u> </u>	V	kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	mm	mm	kg ~	kg ~	mm	mm	mm	Controller
TRTVC-EFC36BX	50Hz	3.6	12.3	4.0	13.7												
TRTVC-EFC36BY-LDBA	60Hz					0.085	620	360	37~42	1130	1050						
TRTVC-EFC45BX	50Hz	4.5	15.3	5.0	17	0.000	020	500	01 42	X 705	x 675	00.5	01.0	Ф12.7	ФС 25	DN20	
TRTVC-EFC45BY-LDBA	60Hz	4.5	10.0	5.0	11					765 x	b/5 X	26.5	31.0	Ψ12.7	Ψ6.35	DNZU	
TRTVC-EFC56BX	50Hz		10.1	0.0	01./	0.110				330	235						
TRTVC-EFC56BY-LDBA	60Hz	5.6	19.1	6.3	21.4	0.110	800	470	37~47								
TRTVC-EFC71BX	50Hz									1380	1300						
TRTVC-EFC71BY-LDBA	60Hz	7.1	24.2	8.0	27.2					х	х						
TRTVC-EFC80BX	50Hz					0.095	1200	706	45~51	765 x	675 x	32.0	37.0				
TRTVC-EFC80BY-LDBA	60Hz	8.0	27.2	8.8	30					325	235						Remote
TRTVC-EFC90BX	50Hz				0/4												controller
TRTVC-EFC90BY-LDBA	60Hz	9.0	30.7	10.0	34.1	0.160	1600	940	45~50					Ф15.88	Ф9.52	DN20	
TRTVC-EFC112BX	50Hz			40.5		0.160	1000	940	45~50	1750	1670						
TRTVC-EFC112BY-LDBA	60Hz	11.2	38.2	12.5	42.6					х	х						
TRTVC-EFC140BX	50Hz	1/0	(7.7	15.0	F1.1					765 x	675 x	41.0	47.0				
TRTVC-EFC140BY-LDBA	60Hz	14.0	47.7	15.0	51.1					325	235						
TRTVC-EFC160BX	50Hz	10.0	F/ F	17.0		0.200	2000	1177	45~54								
TRTVC-EFC160BY-LDBA	60Hz	16.0	54.5	17.0	58	58											

- 1. Power supply: 220-240 V/1N for 50 Hz; 208-230 V/1N for 60 Hz, the above data is for AC motor model.
- $2. Cooling \ test \ condition: indoor \ side \ 27^{\circ}C \ DB, 19^{\circ}C \ WB \ outdoor \ side \ 35^{\circ}C \ DB. \ Heating \ test \ condition: indoor \ side \ 20^{\circ}C \ DB, 15^{\circ}C \ WB \ outdoor \ side \ 7^{\circ}C \ DB.$
- 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



Features

Accessories

Plenum box	Air filter	EXV	Drain pump	AC motor	DC motor
Standard	Optional	Standard	Optional	Standard	1



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.

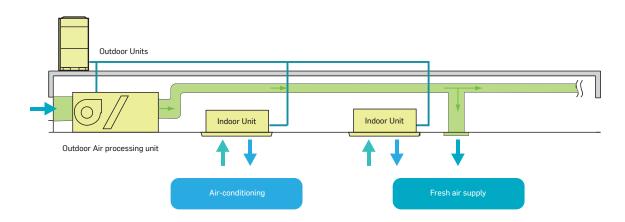


High external static pressure

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

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.

Specification -

			Сара	acity		Power	Air f		Sound	ESP		Dimensio	on(WxHxD)		Body V	Veight	Con	necting	pipe	
Model name	Power type	Coo	ling	Hea	iting	input	All	tow	Level	ESF	Packing	Body	Panel packing	Panel	Net	Gross	Gas	Liquid	Drain	Standard controller
~	V	kW	kBtu/h	kW	kBtu/h	kW	M³/h	CFM	DB(A)	Pa	mm	mm	mm	mm	kg	kg ~	mm	mm	mm	V
TRTVC-EFA140BX	50Hz	14.0	47.7	9.0	30.7	0.45	1400	820	42~48	220	1245 x 445	1190 × 370			47	51	Ф15.88	Ф9.52	ОДФ25	
TRTVC-EFA140BY	60Hz	14.0	47.7	3.0	30.7	0.43	1100	020	42-40	220	x 655	x 620								
TRTVC-EFA224BX	50Hz	22.4	76.4	16.0	54.5	1.20	2000	1170	45~52	220	1510 x 490	1465 x 448			102	106				
TRTVC-EFA224BY	60Hz										x 870	X 811								
TRTVC-EFA280BX	50Hz	28.0	95.5	20.0	68.2	1.20	2800	1640	45~52	220	1510 x 490	1465 x 448	,	,	102	106	Ф22.2	Ф12.7	ОДФ30	Wired controller
TRTVC-EFA280BY	60Hz										x 870	x 811								cond otter
TRTVC-EFA450BX	50Hz	45.0	153.5	31.4	107.1	1.60	4000	3520	58	300	2200 x 710	2165 x 676			222	260				
TRTVC-EFA450BY	60Hz										x 1018	x 916					#20.0	415.00	ОДФ32	
TRTVC-EFA560BX	50Hz	56.0	191.0	39.0	133.0	2.50	6000	4700	62	300	2200 x 710	2165 x 676			222	260	Ψ28.6	Ψ15.88	υυΦ32	
TRTVC-EFA560BY	60Hz										X 1018	x 916								

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

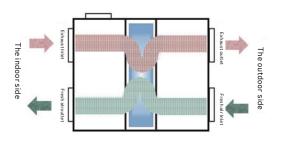
- 2.Cooling test condition: Indoor and outdoor side 33°C DB, 28°C WB. Heating test condition: Indoor and outdoor side 0°CCB, -2.9°C WB.
- $3. Sound \ level: measured \ at a point 1 \ m \ below \ the \ unit. \ During \ actual \ operation, these \ values \ are \ normally \ somewhat \ higher \ as \ a \ result \ of \ ambient \ conditions.$

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

- 59 | 60 -



Features

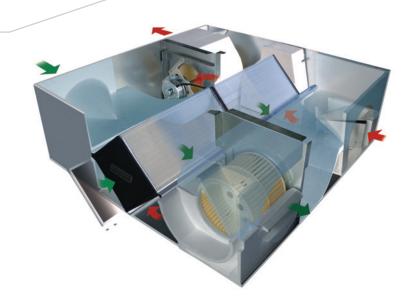


How it works

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.



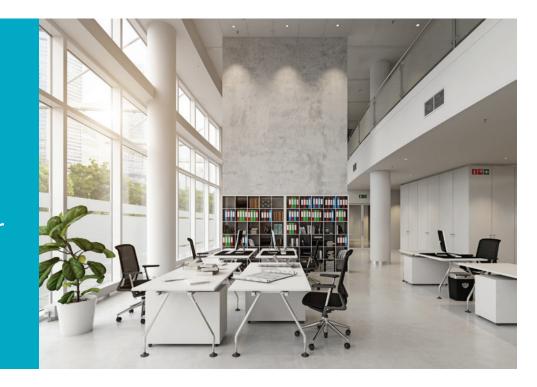
Specification -

Supspended type specification

Model name	Air flow	ESP	Power input	Power suppy		re exhanging ency(%)		exhanging ency(%)	Noise	Body dimension (WxDxH)	Weight
	M³/h	Pa	W	(V)	Cooling Heating		Cooling Heating		dB(A)	mm	kg
•	•			~	•			•	•	V	V
QR-X02D	200	75	65		60.0	65.0	50.0	55.0	30	666x580x264	25
QR-X03D	300	75	130	220V/1N/50Hz	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		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	2007/201/2011-	60.0	65.0	50.0	55.0	60	1330x1725x1050	265
QR-X50DS	5000	240	3000	380V/3N/50Hz	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.

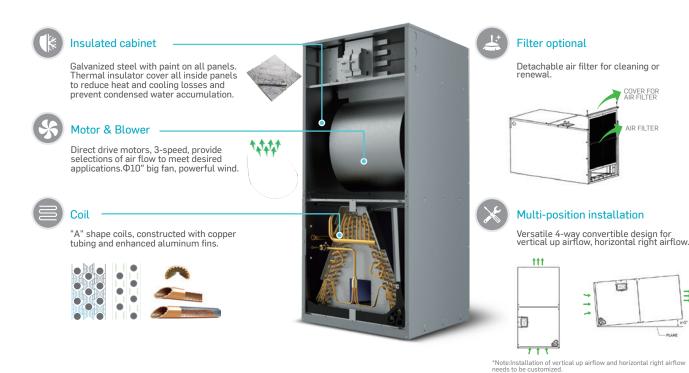
Heat Recovery Ventilator



Air Handler Unit



· Features •



Specification -

Model name	Power type	Capacity			Power	Air flow		Sound	ESP	Dimension(WxHxD)		Body Weight		Connecting pipe				
		Cooling		Heating		input	AIF TLOW		Level	ESP	Body	Packing	Net	Gross	Gas	Liquid	Drain	Standard controller
		kW	kBtu/h	kW	kBtu/h	W	M³/h	CFM	DB(A)	Pa	mm	mm	kg	kg	mm	mm	mm	
TRTVC-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
TRTVC-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
TRTVC-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.



Wireless Controllers



Wired Controllers



Touch Screen Wired Controller



Simple Centralized Controller



- 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



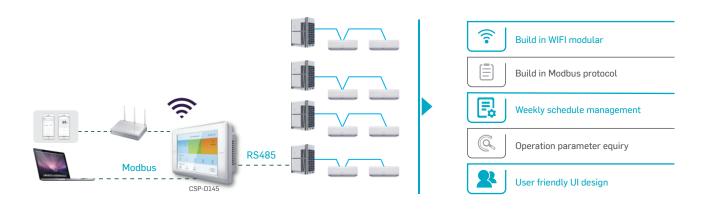
• Remote control via cloud server



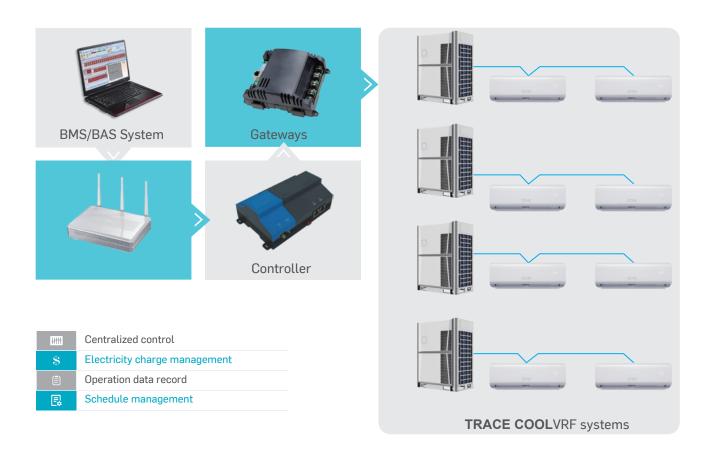
- Single unit controller or group control
- Weekly schedule management
- 100 indoor units can be controlled
- · Operation parameter enquiry



Touch Screen Centralized Controller



TRTVC-NET(Centralized Control System)



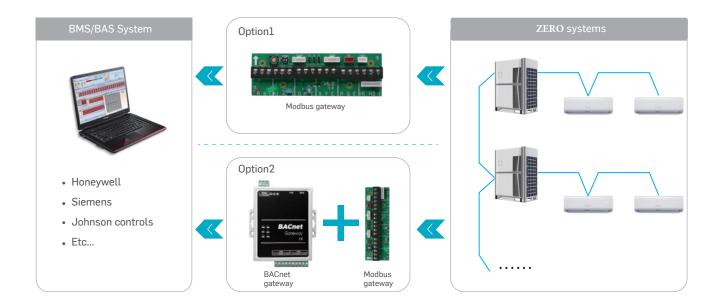
 $^{\circ}$ 65 $^{\circ}$

BMS Gateway

Modbus gateway

Modbus gateway | Independent Modbus Box or built-in with outdoor unit.

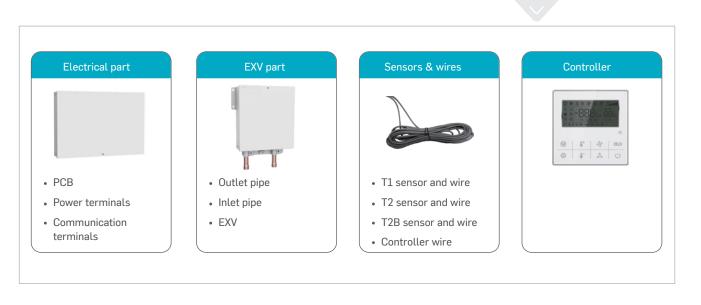
BACnet gateway | Connect with Modbus gateway, use BACnet IP protocol.

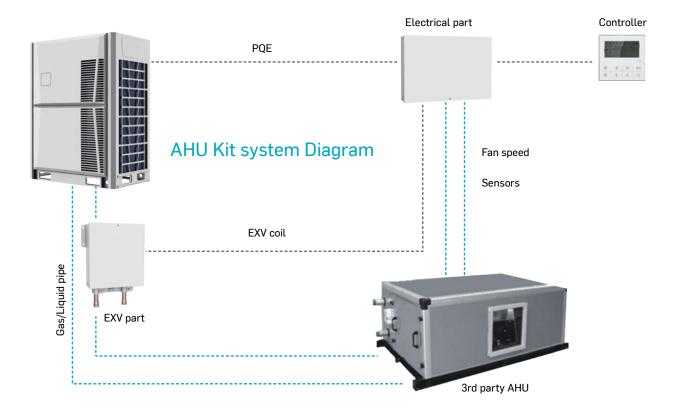


AHU Connection Kit

- ZERO AHU kit is an interface that allows 3rd party manufacturer's AHU connecting to ZERO 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.

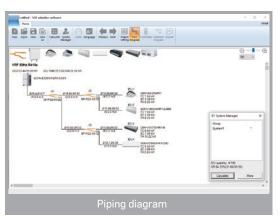
TRACECOOL AHU Kit

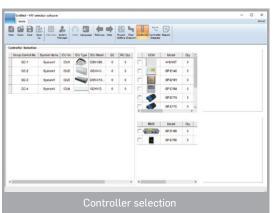


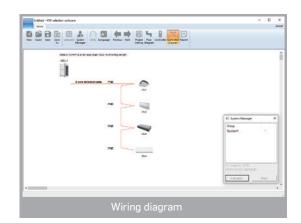


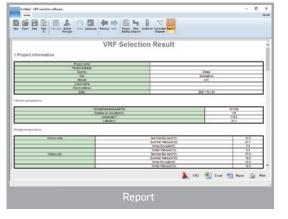
VRF Selection Software

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.









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