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VRF-SLB032-EN Nov 09, 2019



LET'S GO BEYOND™



**GEEReacool**

Full DC inverter air-conditioning system

25.2kW-246.0kW





# R

High Reliability Operating  
Temperature Up to **55°C**

# E

High Efficiency  
EER Up to **4.55**

# A

High Applicability **11** Series,  
**107** Indoor Models

# Cool



01

Best in Class  
Efficiency

03

High  
Reliability

05

Absolute  
Comfort

07

Convenient  
Operation

09

Convenient  
Operation

11

Extensive Outdoor  
Unit Line-up

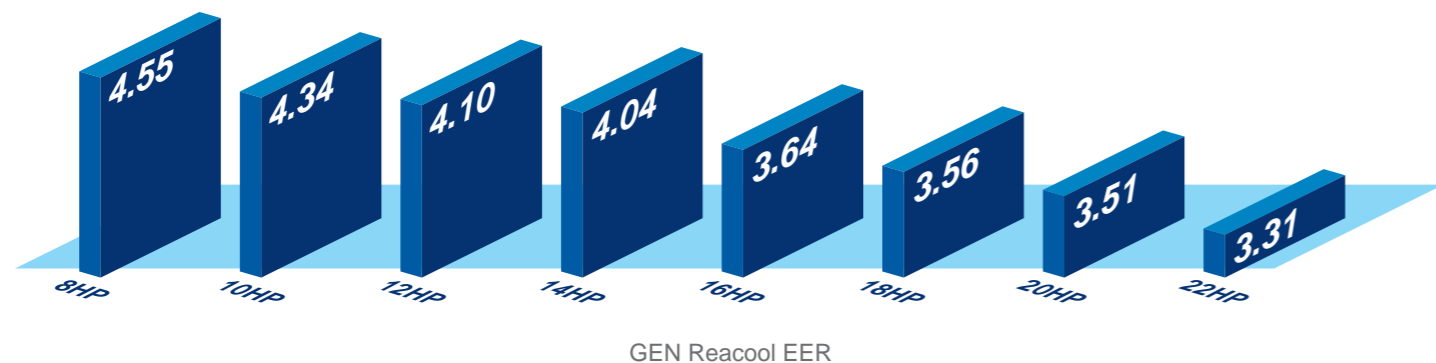
15

Extensive Indoor  
Unit Line-up

23

Trane Service  
System

# Best in Class Efficiency



## Product Features

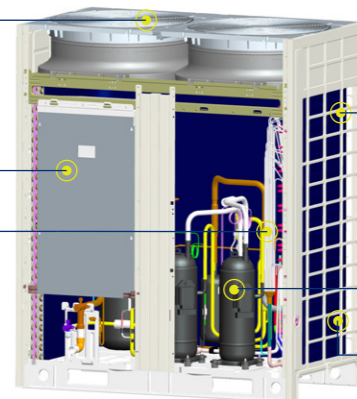
**Brushless DC Motor**  
High efficiency  
Low noise



**180° Sine Wave Control**  
High precision rotor speed control  
180° Sine Wave  
The force moment of the compressor driven by electric current presents a smooth curve

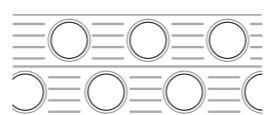


**Stepless Control**  
On-demand output  
High efficiency  
Energy saving



Outdoor unit

**Cross Flow Fins**  
Great heat transfer coefficient  
Easy for defrosting



**DC Inverter Compressor**  
High pressure type  
Asymmetric scroll design  
High efficiency



**CCT Inner-grooved Tube**  
Inner-grooved fins break the refrigerant flow boundary layer to increase heat-exchanging efficiency



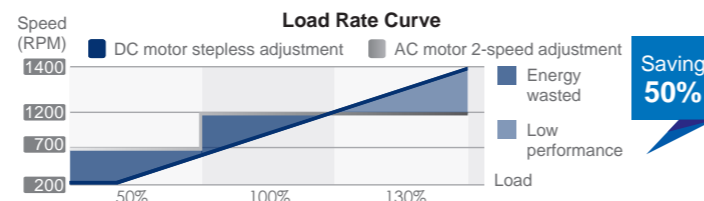
## DC Brushless Fan Motor with Low Noise and High Efficiency

### Compact structure, more efficient under low load operation

The outdoor unit features a compact structure with a brushless DC motor, which can optimize the operating state of the unit under different conditions and greatly improve the operating efficiency at low load.

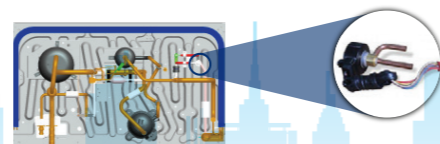
### Achieve stepless control

The compressor speed can be steplessly adjusted according to the load change, with high precision and obvious energy saving effect.



## Multiple Electronic Expansion Valves, Precise Temperature Control

The indoor and outdoor unit features a design of multiple electronic expansion valves that are connected in parallel in the system. The refrigerant flow is adjusted simultaneously according to the actual load requirement to achieve true on-demand adjustment and output. The result of precise temperature control is comfortable indoor air environment. Indoor unit adopts mute type electronic expansion valve control.



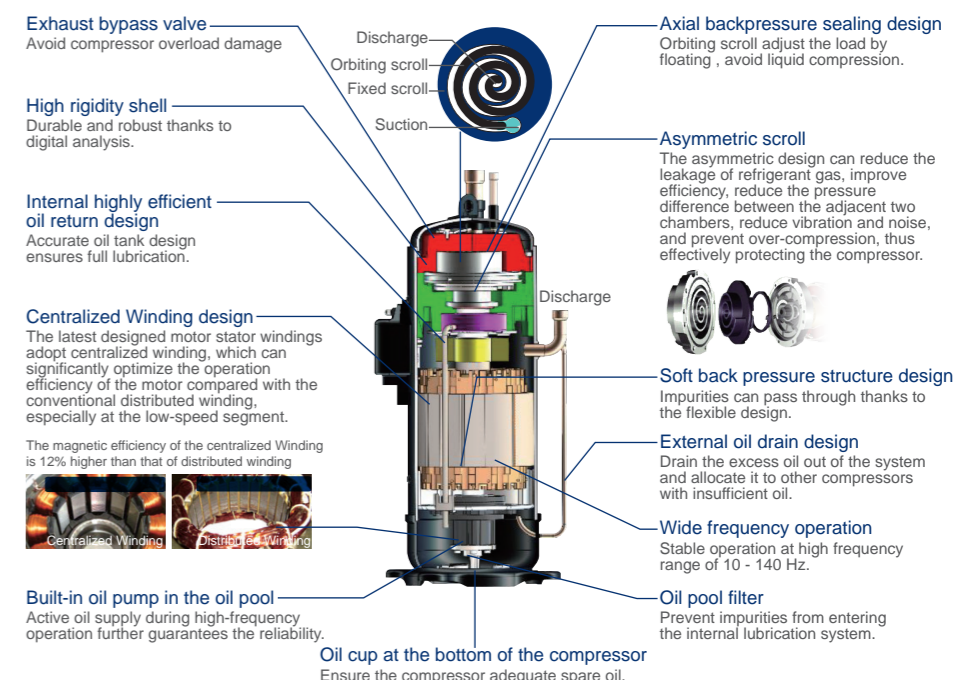
## New High-Pressure Scroll Compressor Features

Compressor is undoubtedly the core component in the air conditioning system, which plays a decisive role in the overall performance of air conditioning system. The new GEN Reacool combines the compressor with various new designs to ensure a strong heart of the air conditioning system.

- The discharge capacity is increased by 45% with the use of super-large capacity scroll compressor, which brings stronger power and more convenient system oil return operation.
- Accurate prediction of refrigerant state parameters and automatic extraction of intermediate pressure refrigerant effectively compensate system low temperature attenuation.
- Direct inhalation features low preheating and high volume efficiency.
- Large exhaust buffer volume reduces vibration and noise.
- With 140 rps high-speed operation and miniaturization of the components, the reliability of compressor is greatly improved.

Latest compressor sound insulation and suspension design.

- The suspension pipeline is added to the inlet and outlet pipeline of the compressor, which can effectively avoid damage to the compressor pipeline caused by system vibration, better limit the propagation of compressor noise, and reduce the occurrence of unit resonance.
- Multi-layers sound insulation can reduce 1 dB noise.



## All Inverter Compressor System Greatly Boosts Performance

### Secrets of the more comfortable all variable speed system

The GEN Reacool series performance is substantially upgraded. The inverter compressor effectively improves the system's self-adaptive adjusting capacity, enabling the system to reach the optimal operating state point of dynamic equilibrium and flexibly adjust output in line with load changes.

### On-demand output ensures high efficiency and energy saving

**All inverter system:** The inverter compressors are simultaneously activated according to actual air conditioning needs, and they can fully meet the actual needs and enable on-demand output due to its adjustable capacity.

**Fixed speed system:** As the output is not controllable, it is usually in excess of the demand at first, and then slowly approaches to the actual need, which inevitably causes energy waste.

### Precise temperature control, stable and comfortable

- After setting target room temperature, the air conditioner is activated to approach the set value. A non-variable speed air conditioning system will stop operation once it reached the set temperature and work again when temperature deviates, which causes evident temperature change.
- Once the set temperature is reached, an inverter air conditioning system will change the speed of compressor to adjust output and avoid the temperature fluctuation, which would ensure a higher comfort level.

Fig. a

GEN Reacool all variable speed system capacity

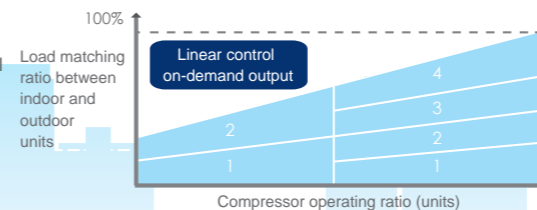
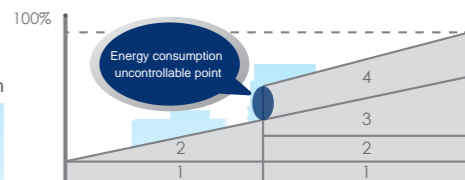


Fig. b

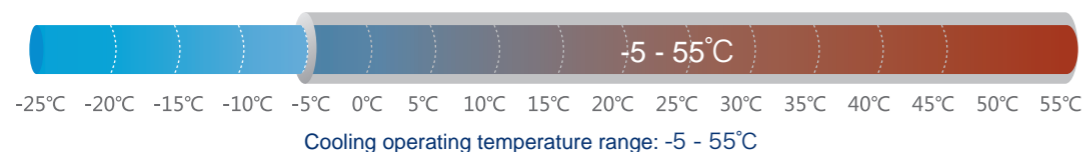
Non-variable speed system capacity



44HP

# High Reliability

## Wide Range of Operation, Applicable for Different Regions and Different Climate



## 3-level Oil Return, 5-step Oil Control

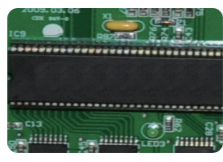
With smart oil level control technique, when the oil level of one compressor is too high, the excess lubricating oil can be collected into an oil separator through the oil even pipe to equalize oil level of each compressor.

For a multi-module combination system, an intelligent oil return program is adopted to ensure balance of oil levels between different modules to ensure the normal operation of system.

- GEN Reacool has an intelligent oil return program and is equipped with an oil even pipe between each module in the system.
- The system can initiate the oil return program according to real-time operating status, so as to balance oil levels between different modules, avoiding compressor fault or damage caused by shortage of oil.



Oil even pipe  
Oil even pipe between modules



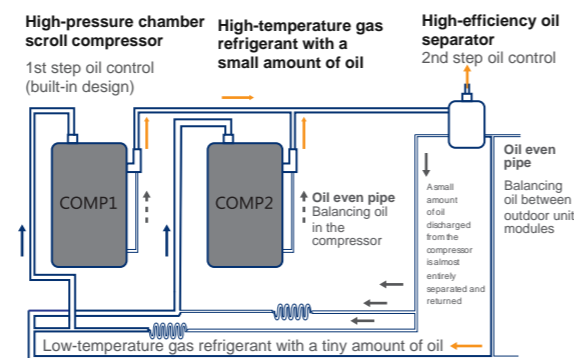
Intelligent oil return program  
Oil even pipe between modules



Oil separator  
Separating efficiency up to 92%



Oil level control  
Compressor oil even pipe

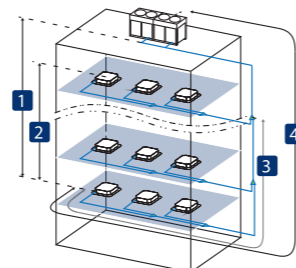


## Extra Long Pipes for Flexible System Design

- 1 Height difference between an outdoor and indoor unit is up to 70m (with the outdoor unit below).
- 2 Height difference between indoor units is 15m.
- 3 The maximum distance from the first indoor distributor to the last indoor units is 65m.
- 4 The longest pipe length between an outdoor and indoor unit is 200m.
- 5 The total pipe length is 1000m.

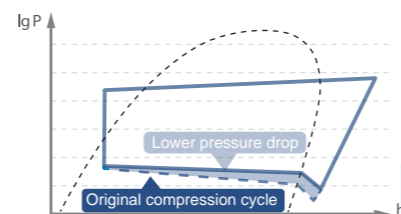
Note:

When the outdoor unit is below indoor units, the maximum vertical length from an indoor unit to the outdoor unit is 70m. When the outdoor unit is above indoor units, the maximum vertical length from an indoor unit to the outdoor unit is 50m.



## New Refrigerant Pipeline Design Greatly Improves Heat Exchange Efficiency

New refrigerant pipeline design optimization helps reduce the piping pressure drop by 5%. Rise of evaporating temperature can further enhance cooling and heating efficiency.

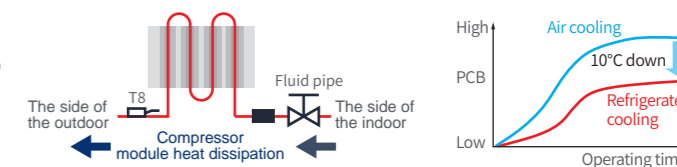


## P.C.B Cooling Technology: Refrigerant Cooled

Double U-shaped design to enhance heat transfer area.

Automatic detection of temperature of frequency conversion module to ensure efficient and reliable operation of frequency converter.

Modular Temperature Protection Function.



## Multiple Protection Function for More Stable System Operation

### Protection 1: Real-time monitoring and automatic adjustment of operating status.

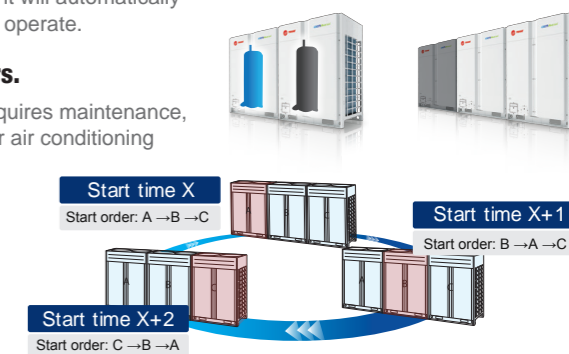
The important operating parameters of the compressor including discharge temperature, high and low pressure and running current would be monitored real-time by the control system, it will automatically adjust or initiate protective measures to ensure the system is safe and effective to operate.

### Protection 2: Perform emergency back-up operation when fault occurs.

When a single module compressor failure occurs or one module in one system requires maintenance, the system can continue stand-alone operations to guarantee uninterrupted indoor air conditioning effect, until the failure is rectified or maintenance is completed.

### Protection 3: Balance compressor operation time to improve system stability.

The outdoor unit always gives priority to start the module with least total running time to balance running hours of different modules and ensure reliability of the whole system.



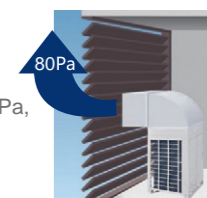
## Easy Installation of Outdoor Units

Choose from 4 directions: left, right, front or under, to connect refrigerant pipes according to actual conditions, for flexible and convenient design and installation of outdoor unit.



## Static Pressure of Outdoor Units Up to 80Pa

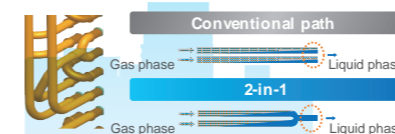
Thanks to the DC fan motor, external static pressure of the outdoor fan is adjustable up to maximum 80Pa, therefore the air flow won't be affected by the blinds or orifice plates in front of the outdoor unit.



## Highly Efficient Heat Exchange Design for Outstanding Performance

### 2-in-1 pipeline design for better efficiency

Liquid refrigerant volume proportion in the condenser outlet is highly increased, allowing the indoor unit to produce more cool air.



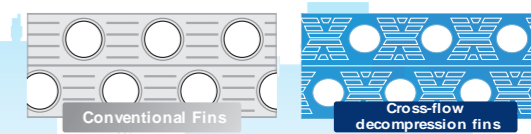
### Inner-grooved copper tube for better efficiency

Adoption of inner-cross-grooved copper tube significantly increases the convective heat transfer coefficient, allowing sufficient heat exchange and improving heat exchanging efficiency.



### High-efficiency fins for better efficiency

Cross-flow decompression fins have a larger heat exchanging area and lower air resistance than conventional fins, which greatly enhances heat exchanging efficiency, makes the whole system run more efficiently.



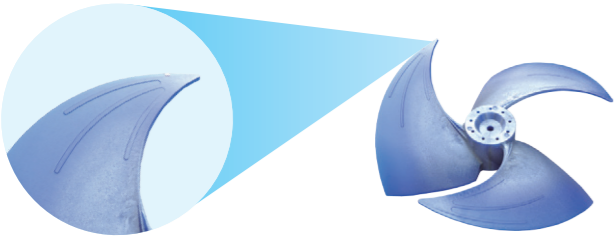
# Absolute Comfort



## Low Noise Design for Comfort

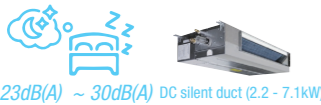
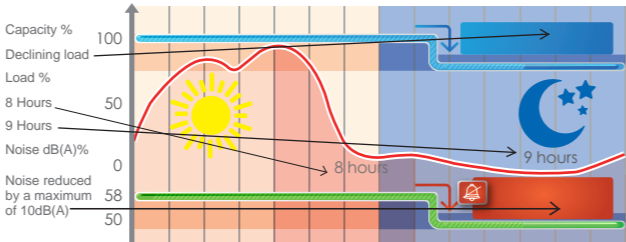
### Forward-swept anti-vibration axial fan

Strengthened blade tips and thickness optimization of parts of blade front, reduced vibration and eddies formation. Especially, high-speed operation is rather stable, significantly reducing noise.



### Human-friendly silent mode for night time

Particularly suitable for villas and high-end apartments, this technology automatically achieves reduction of the fan and compressor speeds by a maximum of 10 dB(A). It allows users to achieve maximum comfort and avoid disturbing neighbors.



## Room Card for Electricity

Hotels are equipped with room card for electricity. In order to prevent the failure of air conditioning system due to the power outage of indoor units, we specially set the REMO\_CTRL terminal to cooperate with the room card for electrical switch through simple wiring, thus it can prohibit the operation of indoor unit without cutting off its power supply. That way it's perfectly integrated into the hotel management system to achieve high efficiency and energy saving.



Insert room card for electricity to allow indoor unit operation

## Reliable Control, Reliable Performance

### Smart snow protection control

The smart automatic snow protection function helps to lower the starting risk and ensure the system run stably and efficiently.

### Smart refrigerant recover control

The smart refrigerant recover control function can effectively cut down service cost and raise service efficiency, helping rid of faults quickly.

### Multiple kinds of outdoor unit operating modes

Operating modes including cooling priority, heating priority, first starting priority, cooling only, heating only etc. fully cater to various kinds of special operation requirements.

### Multi-level protection technologies

High and low pressure sensors synchronous control, compressor discharge superheat degree control, high temperature protection, inverter over-current protection, etc. not only enhance the system's reliability, but also ensure comfort.

### Power off memory function

When unexpected power outage occurs, the system will automatically store user information. When power restores, it will automatically restart and operate in accordance with the settings before power outage with no need to do resetting, thus bringing more intelligent services.

### Automatic address searching function

Outdoor units automatically assign indoor units addresses, which greatly simplifies the installation program. Users can do address query and setting to indoor units through the wired controller, making it easy for the setup of intelligent control system.

### Intelligent diagnosis function

Users can easily obtain system operating status information through the wired controller or the LED display on the outdoor unit, and they can display fault immediately when failure occurs, which greatly simplifies operation management and reduces the maintenance time.

### Code dialing setting function

Based on their habits and actual demand, users can select operation mode through different code dialing combination, make air conditioning system management easier.

## Environment Protection, Green Life

### Fully conforming to RoHS directives

RoHS is a set of mandatory standards passed by the EU legislative body, fully titled "Restriction of Hazardous Substances Directive". It aims to eliminate lead, mercury, cadmium, hexavalent chromium, PBB and PBDE, totally 6 kinds of substances, from electrical and electronic equipment. It regulates material use, technique standards, recycling and recovery of electrical and electronic products, for the good of human health and environmental protection.



### R410A environment-friendly refrigerant

The new refrigerant R410A is made up of hydrogen, fluorine and carbon, boasting numerous advantages including high stability, toxin free and excellent performance, etc. With a high cooling (heating) efficiency, it greatly boosts the system's air conditioning performance.

Indicator	Value
Ozone depletion potential (ODP)	0
Combustibility in air	0
Chemical and heat stability	High



# Convenient Operation

## Individual Control for Indoor Units (Optional)

- Each indoor unit can be separately controlled.
- 2 types of controllers, wireless and wired, cater to different requirements from customers.

### Wireless controller



RC-610C

- Operating mode setting
- Temperature adjustment
- Air speed, air volume adjustment
- Timer setting
- Default scenario mode (Sleep, Turbo, Comfort)
- On/off timer setting
- Louver position setting
- Indoor unit address setting and inquiry
- Child lock function
- Night lighting function



TM-17

- Dimension: 145×65mm
- Wireless signal receiver
- Can be used with RC-610
- LED informs the operation and errors

### Wired controller



TM-08C

- Dimension: 96×96mm
- User-friendly LCD screen and background lighting design
- Operating mode setting
- Temperature adjustment
- Air speed, air volume adjustment
- Timer setting
- On/off timer setting
- Failure code display setting and inquiry



TM-15C

- Dimension: 86×86mm
- Large, easy to see LCD display
- Operating mode setting
- Temperature adjustment
- Air speed, air volume adjustment
- Louver position setting
- On/off timer setting
- Failure code display
- Key locking function
- Indoor unit address setting and inquiry

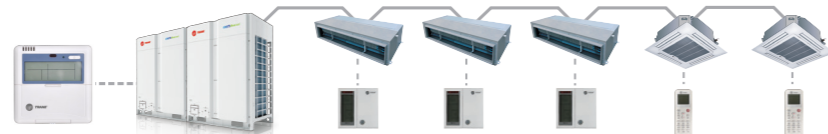
## MC-20 Centralized System Control (Optional)

Central controllers are used to perform centralized control and data inquiring on air conditioning systems. Each controller can connect up to 64 indoor units, and all these indoor units may belong to the same system, or multiple systems. The connection is of a wired manner (RS485), via which a centralized control of air conditioning units in the whole system is achieved.



Central controllers can be selected by customers on demand. One central controller can control up to 64 indoor units, and perform different kinds of central or individual control on all the connected indoor units.

- Air conditioner status inquiry
- Failure code display
- System operation mode lock-up
- Unified control interface
- Central or individual adjustment of temperature, air speed and operation mode



## GEN-Net Air Conditioning Management System

With an intelligent management system built in, the management system host is the core of the air conditioning centralized management system, featuring functions such as equipment management, energy management, schedule management, external access management, etc. Through the operation interface coming with the touch-screen management system host, users can perform all management functions of the whole air conditioning system on the touch screen without the need of adding computers, thus saving costs.



TCMT560AC01C

Can connect up to 560 indoor units and 32 outdoor units, the touch-screen LCD system manager brings you superbly convenient and fast control experience.

- 15 inch large touch screen control
- Energy management
- Daily settings such as temperature control, etc.
- Remote control
- Multi-language setting
- Individual and central control
- Week/Month/day schedule setting
- Household billing
- Authority management
- Operation record display
- Interlocking control of fire alarm, door lock
- Failure alarm

## Touch - Screen Management System Host

A variety of operating mode is available for the touch screen manager. It can be installed on the wall or the work station of the operation control room.



### Operating mode:

1. Touch screen operation is simple and convenient.
2. Touch screen devices has USB interfaces which can be connected directly to the keyboard and mouse to operate.

Software available in English

Sliding operation can be used for temperature control

## Able to Meet Demand of Different Project Scales

### Touch Control Operation System

Touch screen operation system is suitable for small and medium-sized occasions. Centralized control can be realized via a control device with simple wiring.



Air conditioning online diagnosis system

- 15 inch large touch-screen control
- Energy management
- Daily settings such as temperature control, etc.
- Remote control
- Multi-language setting
- Individual and central control
- Week/Month/Day schedule setting

- Household billing
- Authority management
- Operation record display
- Interlocking control of fire alarm, door lock
- Failure alarm



# Convenient Operation



## Open Protocol System

### ModBus protocol (optional)

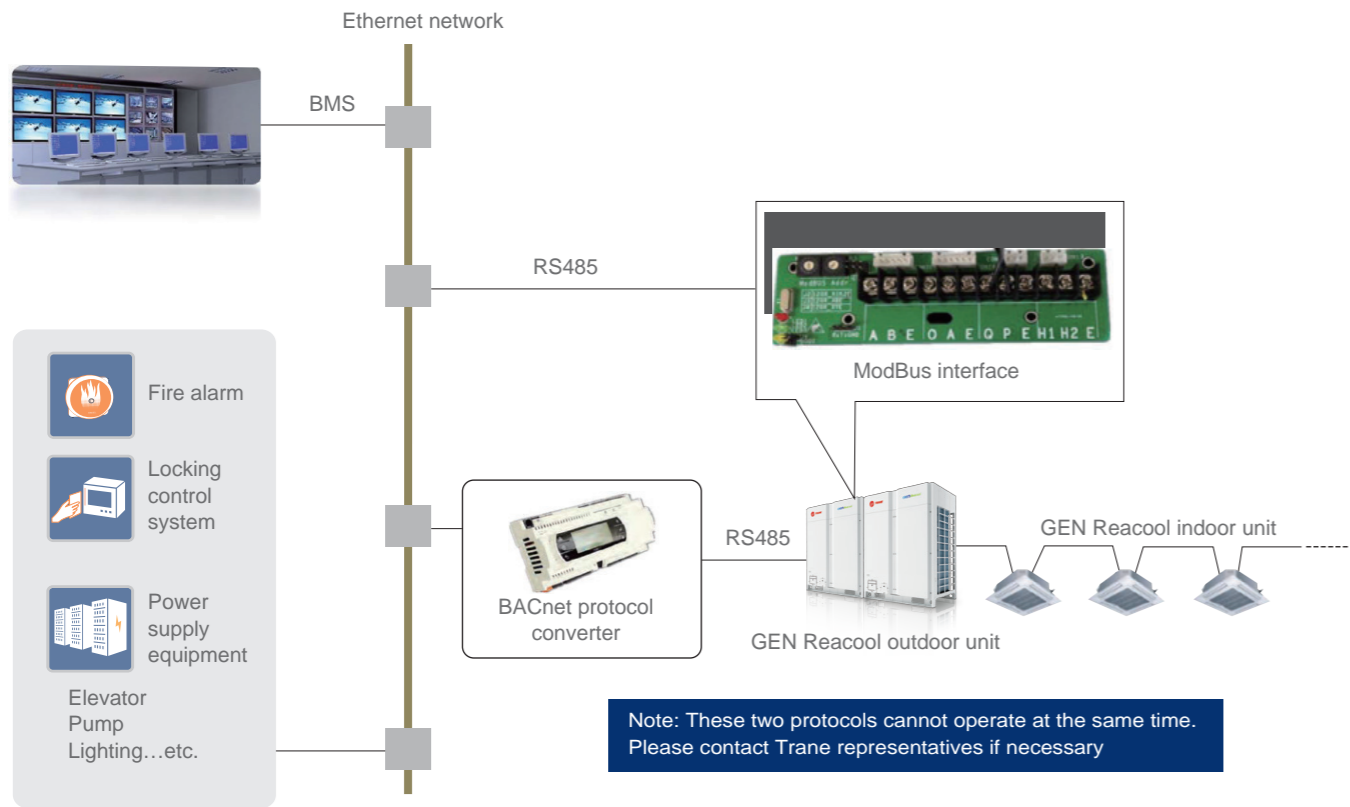
Outdoor unit can be equipped with ModBus/RTU protocol output which is convenient for connection to a third party operating system (such as smart home).

### BACnet protocol converters (optional)

Can connect upto six sets of outdoor units,128 sets of indoor units BMS (Building Automation System) supports BACnet IP&MS/TP, and interlocks air conditioning and the third party equipment operation through indoor and outdoor unit connection.



- Operating functions: on/off, mode, temperature, air speed, louver setting
- Fault alarm
- Permit/Prohibition function



## Air Conditioning Electricity Charge System

Trane air conditioning billing system consists of a home billing system and an air conditioning management system. The former collects a series of operating parameters such as indoor and outdoor unit capacity, operating time, operating mode, whether the electronic expansion valve is opened or not, and then uses the built-in algorithm to process the collected data and reasonably allocate the power consumption of the outdoor unit to each indoor unit.

The GEN-NET system provides users with options of time-sharing or fixed electricity charge. Hour electricity bill can be selected separately to generate electricity bill automatically and improve management efficiency.

## VRF Air Conditioning System Operation Optimization and Management Efficiency, Reduces Energy Consumption of Buildings as A Whole

### Scheduled on/off

On - Pre-scheduled operation brings comfortable temperature from the beginning of a day  
Off - Avoid waste of electricity when staff forget to turn off the air conditioning

### Classify according to the tenant, floor and building

It's time consuming to find a specific unit in hundreds of indoor units. Various kinds of classification help improve the efficiency of the query.

### Emergency stop control (fire alarm)

All indoor units automatically stop when fire alarm occurs in the building.

### Prohibit indoor unit operation

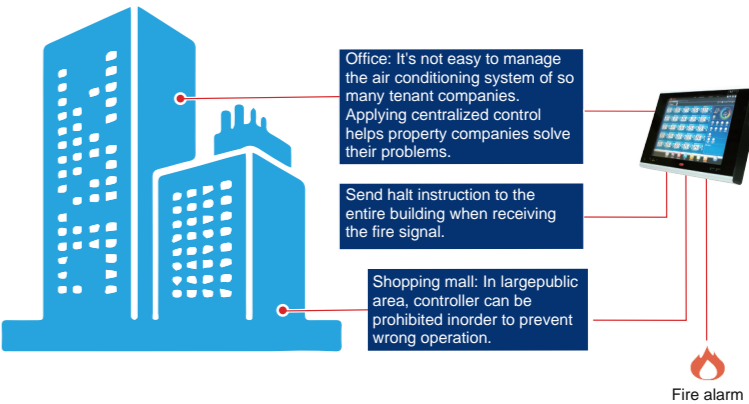
- Frequently changing the operating state of the indoor unit may cause energy loss and also affect the effect of other indoor units.
- Specific remote error control operation of unit at public areas (lobby/corridor/elevator hall) can be prohibited.

### Schedule management

In order to facilitate effective control of air-conditioning equipment, GEN-NET system provides the schedule management function. Users can schedule according to the demand, to the days, weeks, months, years, or any special date to realize 24 hours control of air-conditioning equipment, avoid air conditioning long time running because of personal reasons.

### Permission setting

GEN-NET system supports multiple users logging in locally or remotely. The system administrator can set system login user name, password and access to directly manage users.



Account establishment



Authority limiting



User login

### Trend analysis

GEN-NET intelligent control system can provide any air conditioner equipment operating data in the analysis system, and map it with curves so that users can get a more intuitive analysis of equipment running status.



# Extensive Outdoor Unit Line-up



## Maximum of 4 modules Combination, Single System Up to 88HP

The series boasts an extensive product line-up. 41 models of outdoor units range from 8 to 88HP, with each one's capacity increasing progressively by 2HP. With outstanding flexibility, the system well caters to air conditioning needs from different kinds of applications. Configuration based on need can effectively reduce design and installation cost.



Less copper pipe usage

88HP

Save 2 modules, reduce 30% footprint, more space reserved for service



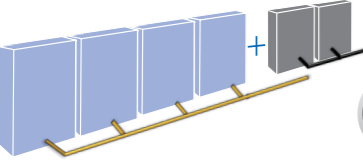
8HP ~ 12HP



14HP ~ 22HP



24HP ~ 44HP



24HP extra copper pipe usage

64HP + 24HP



46HP ~ 66HP



Single system up to 88HP

68HP ~ 88HP

	2 Combination model												3 Combination model												4 Combination model											
HP	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88			
8HP																																				
10HP		1																																		
12HP	2		1																																	
14HP				1								1																								
16HP		1	1	1	2	1	1	1				2	3	2	2	2	1	1	1				3	3	2	2	2	1	1	1						
18HP						1								1																						
20HP							1		2	1					1		2	1		2	1		1		2	1		2	1		2	1				
22HP								1		1	2					1		1	2	1	2	3		1		1	2	1	2	3	2	3	4			

HP			8	10	12	14	16	18	20	22
Model			TMC080ADE	TMC100ADE	TMC120ADE	TMC140ADE	TMC160ADE	TMC180ADE	TMC200ADE	TMC220ADE
Power Supply			380V~415V~50Hz~3Ph							
Cooling Capacity		kW	25.2	28	33.5	40	45	50	56	61.5
Input Power	Cooling	kW	5.54	6.45	8.17	9.90	12.36	14.04	15.95	18.58
EER			4.55	4.34	4.10	4.04	3.64	3.56	3.51	3.31
Indoor unit connectable capacity		%	50~130%							
Max. no. of connectable indoor units			13	16			20		24	
Dimensions	H x W x D	mm	1620×970×796			1620×1349×796				
Weight		kg	202			280			318	
Fan	Air Flow	m³/h	10500		12000	15000		16000	16500	
	Max. static pressure		Pa 40(standard)/80(optional)							
Operation noise		dB(A)	58		60		61	62	63	
Operation Range	Cooling		-5°C ~ 55°C							
Refrigerant	Type		R410A							
	Charging Amount	kg	9			14			16	
Chiller oil	Type		FV-68H							
Connecting Pipe	Liquid	mm	12.7			15.88				
	Gas	mm	25.4			31.8				

1. Cooling conditions: indoor temperature—27°CDB, 19°CWB, outdoor temperature—35°CDB, 24°CWB.
2. The operation noise herein is the value measured in a semi-anechoic room.
3. When pipe length exceeds 90m, the pipe diameter may change, so please strictly refer to pipe diameter illustrations in the GEN Reacool technical manual.
4. For engineering design, due to the difference of operating environments, please refer to the related chapters in the user's manual attached with the unit for electrical specifications.

HP			24	26	28	30	32
Model(combination unit)			TMC240ADE	TMC260ADE	TMC280ADE	TMC300ADE	TMC320ADE
Combination Method			120+120	100+160	120+160	140+160	160+160
Power Supply			380V~415V~50Hz~3Ph				
Cooling Capacity		kW	67	73	78.5	85	90
Input Power	Cooling	kW	16.34	18.81	20.53	22.26	24.72
Indoor unit connectable capacity		%	50~130%				
Max. no. of connectable indoor units			28			32	
Dimensions	H x W x D	mm	1620×970×796+1620×970×796	1620×970×796+1620×1349×796		1620×1349×796+1620×1349×796	
Weight		kg	202+202	202+280		280+280	
Fan	Air Flow	m³/h	12000+12000	10500+15000	12000+15000	15000+15000	
Operation noise		dB(A)	65	66		67	
Operation Range	Cooling		-5°C ~ 55°C				
Refrigerant	Type		R410A				
	Charging Amount	kg	9+9	9+14		14+14	
Chiller oil	Type		FV-68H				
Connecting Pipe	Liquid	mm	15.9	19.1			
	Gas	mm	31.8	34.9			

HP			34	36	38	40	42	44
Model(combination unit)			TMC340ADE	TMC360ADE	TMC380ADE	TMC400ADE	TMC420ADE	TMC440ADE
Combination Method			160+180	160+200	160+220	200+200	200+220	220+220
Power Supply			380V~415V~50Hz~3Ph					
Cooling Capacity		kW	95	101	106.5	112	117.5	123
Input Power	Cooling	kW	26.40	28.31	30.94	31.90	34.53	37.16
Indoor unit connectable capacity		%	50~130%					
Max. no. of connectable indoor units			36			42		
Dimensions	H x W x D	mm	1620×1349×796+1620×1349×796					
Weight		kg	280+280	280+318			318+318	
Fan	Air Flow	m³/h	15000+16000	15000+16500			16000+16500	
Operation noise		dB(A)	68				69	
Operation Range	Cooling		-5℃ ~ 55℃					
Refrigerant	Type		R410A					
	Charging Amount	kg	14+14	14+16			16+16	
Chiller oil	Type		FV-68H					
Connecting Pipe	Liquid	mm	19.1					
	Gas	mm	38.1					

1. Cooling conditions: indoor temperature—27°CDB, 19°CWB, outdoor temperature—35°CDB, 24°CWB.
2. The operation noise herein is the value measured in a semi-anechoic room.
3. When pipe length exceeds 90m, the pipe diameter may change, so please strictly refer to pipe diameter illustrations in the GEN Reacool technical manual.
4. For engineering design, due to the difference of operating environments, please refer to the related chapters in the user's manual attached with the unit for electrical specifications.

# Extensive Outdoor Unit Line-up



HP			46	48	50	52	54
Model(combination unit)			TMC460ADE	TMC480ADE	TMC500ADE	TMC520ADE	TMC540ADE
Combination Method			140+160+160	160+160+160	160+160+180	160+160+200	160+160+220
Power Supply			380V~415V~50Hz~3Ph				
Cooling Capacity		kW	130	135	140	146	151.5
Input Power	Cooling	kW	34.62	37.08	38.76	40.67	43.30
Indoor unit connectable capacity		%	50~130%				
Max. no. of connectable indoor units			48		54		
Dimensions	H x W x D	mm	1620×1349×796+1620×1349×796+1620×1349×796				
Weight		kg	280+280+280			280+280+318	
Fan	Air Flow	m³/h	15000+15000+15000		15000+15000+16000	15000+15000+16500	
Operation noise		dB(A)	69				70
Operation Range	Cooling		-5℃ ~ 55℃				
Refrigerant	Type		R410A				
	Charging Amount	kg	14+14+14			14+14+16	
Chiller oil	Type		FV-68H				
Connecting Pipe	Liquid	mm	19.1		22.2		
	Gas	mm	38.1		44.5		

HP			56	58	60	62	64	66
Model(combination unit)			TMC560ADE	TMC580ADE	TMC600ADE	TMC620ADE	TMC640ADE	TMC660ADE
Combination Method			160+200+200	160+200+220	160+220+220	200+200+220	200+220+220	220+220+220
Power Supply			380V~415V~50Hz~3Ph					
Cooling Capacity		kW	157	162.5	168	173.5	179	184.5
Input Power	Cooling	kW	44.26	46.89	49.52	50.48	53.11	55.74
Indoor unit connectable capacity		%	50~130%					
Max. no. of connectable indoor units			58			64		
Dimensions	H x W x D	mm	1620×1349×796+1620×1349×796+1620×1349×796					
Weight		kg	280+318+318			318+318+318		
Fan	Air Flow	m³/h	15000+16500+16500			16500+16500+16500		
Operation noise		dB(A)	70					71
Operation Range	Cooling		-5℃ ~ 55℃					
Refrigerant	Type		R410A					
	Charging Amount	kg	14+16+16			16+16+16		
Chiller oil		Type		FV-68H				
Connecting Pipe	Liquid	mm	22.2					25.4
	Gas	mm	44.5					44.5

1. Cooling conditions: indoor temperature—27℃CDB, 19℃CWB, outdoor temperature—35℃CDB, 24℃CWB.
2. The operation noise herein is the value measured in a semi-anechoic room.
3. When pipe length exceeds 90m, the pipe diameter may change, so please strictly refer to pipe diameter illustrations in the GEN Reacool technical manual.
4. For engineering design, due to the difference of operating environments, please refer to the related chapters in the user's manual attached with the unit for electrical specifications.

HP			68	70	72	74	76
Model(combination unit)			TMC680ADE	TMC700ADE	TMC720ADE	TMC740ADE	TMC760ADE
Combination Method			160+160+160+200	160+160+160+220	160+160+200+200	160+160+200+220	160+160+220+220
Power Supply			380V~415V~50Hz~3Ph				
Cooling Capacity		kW	191	196.5	202	207.5	213
Input Power	Cooling	kW	53.03	55.66	56.62	59.25	61.88
Indoor unit connectable capacity		%	50~130%				
Max. no. of connectable indoor units			64				
Dimensions	H x W x D	mm	1620×1349×796+1620×1349×796+1620×1349×796+1620×1349×796				
Weight		kg	280+280+280+318			280+280+318+318	
Fan	Air Flow	m³/h	15000+15000+15000+16500			15000+15000+16500+16500	
Operation noise		dB(A)	71				
Operation Range	Cooling		-5℃ ~ 55℃				
Refrigerant	Type		R410A				
	Charging Amount	kg	14+14+14+16			14+14+16+16	
Chiller oil	Type		FV-68H				
Connecting Pipe	Liquid	mm	25.4			25.4	
	Gas	mm	44.5			54	

HP			78	80	82	84	86	88
Model(combination unit)			TMC780ADE	TMC800ADE	TMC820ADE	TMC840ADE	TMC860ADE	TMC880ADE
Combination Method			160+200+200+220	160+200+220+220	160+220+220+220	200+200+220+220	200+220+220+220	220+220+220+220
Power Supply			380V~415V~50Hz~3Ph					
Cooling Capacity		kW	218.5	224	229.5	235	240.5	246
Input Power	Cooling	kW	62.84	65.47	68.10	69.06	71.69	74.32
Indoor unit connectable capacity		%	50~130%					
Max. no. of connectable indoor units			64					
Dimensions	H x W x D	mm	1620×1349×796+1620×1349×796+1620×1349×796+1620×1349×796					
Weight		kg	280+318+318+318				318+318+318+318	
Fan	Air Flow	m³/h	15000+16500+16500+16500				16500+16500+16500+16500	
Operation noise		dB(A)	71			72		
Operation Range	Cooling		-5℃ ~ 55℃					
Refrigerant	Type		R410A					
	Charging Amount	kg	14+16+16+16				16+16+16+16	
Chiller oil	Type		FV-68H					
Connecting Pipe	Liquid	mm	25.4					
	Gas	mm	54					












1. Cooling conditions: indoor temperature—27℃CDB, 19℃CWB, outdoor temperature—35℃CDB, 24℃CWB.
2. The operation noise herein is the value measured in a semi-anechoic room.
3. When pipe length exceeds 90m, the pipe diameter may change, so please strictly refer to pipe diameter illustrations in the GEN Reacool technical manual.
4. For engineering design, due to the difference of operating environments, please refer to the related chapters in the user's manual attached with the unit for electrical specifications.

# Extensive Indoor Unit Line-up



## 11 Series, 107 Specifications in total

GEN Reacool indoor unit has a wide selection of styles, including cassette unit, built-in duct unit, high wall unit, floor/ceiling unit etc. with 11 series, 107 specifications in total, fully meeting various indoor decoration requirements.

Name	Cooling capacity (kW)	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.1	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.0	12.5	14.0	15.0	20.0	25.0	28.0	45.0	56.0
MWA-AMN 1-way cassette		●		●		●		●			●		●													
MWB-AMN 2-way cassette								●			●		●	●												
MWC-AMN 4-way cassette				●		●		●			●		●	●	●	●	●		●	●						
MWC-BMR Round flow cassette type				●		●		●			●		●	●	●	●	●		●	●						
MWD-A/BML Slim duct type		●	●	●	●	●	●	●	●		●	●	●													
MWD-AMZ Silent duct type		●	●	●	●	●	●	●	●		●	●	●													
MWD-AMS 30Pa Standard duct type													●	●	●	●	●	●	●	●	●					
MWD-AMM 50Pa Slim/Standard duct type		●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●					
MWD-AMH High ESP duct type													●	●	●	●	●	●	●	●	●	●	●	●	●	●
MWW-AMN Wall-mounted type		●		●		●		●		●			●													
MWX-AMN Floor/ceiling type								●			●		●	●		●										

### Round Flow Cassette Type MWC-BMR



- 360° Surrounding air supply brings comfortable environment
- Enjoy low noise and energy saving with more capacity selection
- Multiple mode switching and convenient installation
- Airflow is more even with 360° outlet wind



### 1-Way Cassette Type MWA-AMN



- 1-Way Air Out with Elegant Appearance
- Automatic Wide-angle Air Swing, Comfortable and Relaxing
- Optimized Air Flow Guide for Cleanness and Beauty
- Built-in Lift Pump for Higher Installation Freedom

### 2-Way Cassette Type MWB-AMN



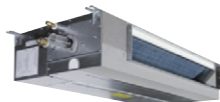
- Optimized Air Flow Guide for Cleanness and Beauty
- 2-Way Air Out for Individualization and Comfort
- Built-in Lift Pump for Higher Installation Freedom

### 4-Way Cassette Type MWC-AMN



- 4-Way Air Supply for More Even Flow
- Slim Profile for Elegance and Beauty
- Built-in Lift Pump for Higher Installation Freedom
- A Variety of Motor Options for More Design Freedom
- Ultimately Quiet for Comfort and Enjoyment

### Silent Duct Type MWD-AMZ



- Noise as Low as 23 dB(A)
- Height is 200mm, More Compact
- ESP is 10 Pa
- Built-in Electronic Expansion Valve
- Comfortable Air Flow

### Slim Duct Type (A/B) MWD-A/BML



- Industry-leading Slimness and Compactness
- Optional Lift Pump for Higher Installation Freedom
- A Variety of Motor Options for More Design Freedom
- Quiet Operation for Comfort and Enjoyment

### Standard Duct Type MWD-AMS/M(30pa/50pa)



- Multiple Quiet Technologies, Energy-saving and Comfortable
- Multiple Drainage Methods and More Convenient Installation
- Multi-function Air Supply, More Comfort and Satisfaction

### High ESP Duct Type MWD-AMH



- High Static Pressure Design and Wide Applications
- Slim Design, Space Saving

### Wall-mounted Type MWW-AMN



- Multi-function Air Supply, More Comfort and Satisfaction
- Flexible Pipe Connection and Installation

### Floor/Ceiling Type MWX-AMN




- Artistic Design, Perfectly Matching with Interior Decoration
- Flexible Pipe Connection and Installation
- Unique Air Supply Design for Quietness and Comfort
- Detachable Design, Convenient Cleaning and Service


# Extensive Indoor Unit Line-up




## Round Flow Cassette Type

	Unit model MWC-BMR			028	036	045	056	071	080	090	100	112	125	140
	Capacity	Cooling	kW	2.8	3.6	4.5	5.6	7.1	8.0	9.0	10.0	11.2	12.5	14.0
	Rated Input Power	Cooling	W	25	30			50		70			100	
	Power Supply			220V~50Hz~1N										
	Air Flow	High	m³/h	750	810			1200		1400			1700	
		Medium	m³/h	650	710			1050		1200			1400	
		Low	m³/h	550	610			750		950			1100	
	Refrigerant Type			R410A										
	Unit Dimensions	Length*Width*Height	mm	900*833*232						900*833*286				
	Weight		kg	20.5	22					27				
	Panel Dimensions	Length*Width*Height	mm	950*950*80										
	Noise	High/Medium/Low	dB(A)	37/33/30	37/34/31			44/40/34		44/40/35			48/43/38	
Connecting Pipe	Liquid Pipe	mm		φ6.4			φ9.5							
	Gas Pipe	mm	φ9.5	φ12.7			φ15.9							
	Drain Pipe	mm	DN25											

## Silent Duct Type


	Unit model MWD-AMZ			022	025	028	032	036	040	045	050	056	063	071
	Capacity	Cooling	kW	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1
	Rated Input Power	Cooling	W	60						70			100	
	Power Supply			220V~50Hz~1N										
	Air Flow	High	m³/h	440						720			1100	
		Medium	m³/h	340						580			880	
		Low	m³/h	220						430			640	
	Static Pressure		Pa	10Pa										
	Refrigerant Type			R410A										
	Unit Dimensions	Length*Width*Height	mm	870*475*200						1170*475*200			1470*475*200	
	Weight		kg	18.5						23.5			28	
	Noise	High/Medium/Low	dB(A)	29/26/23			32/29/26			35/30/26			36/34/30	
Connecting Pipe	Liquid Pipe	mm	φ6.4									φ9.5		
	Gas Pipe	mm	φ9.5			φ12.7						φ15.9		
	Drain Pipe	mm	DN25											

## Wall-mounted Type


	Unit model MWW-AMN			022	028	036	045	051	071
	Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.1	7.1
	Rated Input Power	Cooling	W	55		58	60		
	Power Supply			220V~50Hz~1N					
	Air Flow	High	m³/h	540		600	780	1000	
		Medium	m³/h	440		500	650	800	
		Low	m³/h	340		400	550	600	
	Refrigerant Type			R410A					
	Unit Dimensions	Length*Width*Height	mm	850*400*235				1080*304*221	
	Weight		kg	12				16	
	Wireless(standard) /Wired(optional)	High/Medium/Low	dB(A)	36/34/32			42/39/37	48/46/44	
Connecting Pipe	Liquid Pipe	mm	φ6.4						φ9.5
	Gas Pipe	mm	φ9.5		φ12.7				φ15.9
	Drain Pipe	mm	DN20						

1. The above indoor units' capacity test conditions: cooling 35°C DB/24°C WB (outdoor), 27°C DB/19°C WB (indoor); equivalent length of refrigerant pipe: 5m; height difference between indoor and outdoor units: 0m.
2. Should there be any inconsistency involving parameters, those on the nameplate coming with the unit shall prevail. For reasons like system optimization, upgrades, etc., the data herein is subject to change without prior notice.


## 1-Way Cassette Type

	Unit model MWA-AMN			022	028	036	045	056	071
	Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Rated Input Power	Cooling	W	40			50	70	90
	Power Supply			220V~50Hz~1N					
	Air Flow	High	m³/h	520			610	750	950
		Medium	m³/h	470			550	620	780
		Low	m³/h	400			500	500	600
	Refrigerant Type			R410A					
	Unit Dimensions	Length*Width*Height	mm	870*460*250			870*460*290	1304*572*290	
	Weight(Including Panel)		kg	27.60			29.60	37.60	
	Panel Dimensions	Length*Width*Height	mm	1070*520*50				1380*560*50	
Noise	High/Medium/Low	dB(A)	36/34/32				41/38/36	41/38/35	45/41/38
Connecting Pipe	Liquid Pipe	mm	φ6.4					φ9.5	
	Gas Pipe	mm	φ9.5				φ12.7		φ15.9
	Drain Pipe	mm	DN25						

## 2-Way Cassette Type

	Unit model MWB-AMN			045	056	071	080
	Capacity	Cooling	kW	4.5	5.6	7.1	8.0
	Rated Input Power	Cooling	W	70		100	
	Power Supply			220V~50Hz~1N			
	Air Flow	High	m³/h	800		1120	
		Medium	m³/h	670		950	
		Low	m³/h	600		850	
	Refrigerant Type			R410A			
	Unit Dimensions	Length*Width*Height	mm	960*520*306		1200*520*306	
	Weight(Including Panel)		kg	39.50		47.50	
	Panel Dimensions	Length*Width*Height	mm	1203*630*50		1443*630*50	
Noise	High/Medium/Low	dB(A)	42/39/36		46/43/40		
Connecting Pipe	Liquid Pipe	mm	φ6.4		φ9.5		
	Gas Pipe	mm	φ12.7		φ15.9		
	Drain Pipe	mm	DN25				

## 4-Way Cassette Type


	Unit model MWC-AMN			028	036	045	056	071	080	090	100	112	125	140	
	Capacity	Cooling	kW	2.8	3.6	4.5	5.6	7.1	8.0	9.0	10.0	11.2	12.5	14.0	
	Rated Input Power	Cooling	W	43	54			93		160					
	Power Supply			220V~50Hz~1N											
	Air Flow	High	m³/h	650	810			1050	1200	1550			1600		
		Medium	m³/h	550	700			950	1100	1250			1450		
		Low	m³/h	450	550			800	900	1050			1300		
	Refrigerant Type			R410A											
	Unit Dimensions	Length*Width*Height	mm	900*833*232							900*833*286				
	Weight		kg	22	24						28.5				
	Panel Dimensions	Length*Width*Height	mm	950*950*50											
Noise	High/Medium/Low	dB(A)	36/34/32	39/37/35			43/41/39	48/45/43		46/43/41			49/46/43		
Connecting Pipe	Liquid Pipe	mm	φ6.4					φ9.5							
	Gas Pipe	mm	φ9.52	φ12.7			φ15.9								
	Drain Pipe	mm	DN25												

1. The above indoor units' capacity test conditions: cooling 35°C DB/24°C WB (outdoor), 27°C DB/19°C WB (indoor); equivalent length of refrigerant pipe: 5m; height difference between indoor and outdoor units: 0m.
2. Should there be any inconsistency involving parameters, those on the nameplate coming with the unit shall prevail. For reasons like system optimization, upgrades, etc., the data herein is subject to change without prior notice.


# Extensive Indoor Unit Line-up



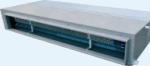
Slim Duct Type (A)

	Unit model MWD-AML			022	025	028	032	036	040	045	050	056	063	071	
	Capacity	Cooling	kW	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	
	Rated Input Power	Cooling	W	50			70			100			110		
	Power Supply			220V~50Hz~1N											
	Air Flow	High	m³/h	450			550			620			800		
		Medium	m³/h	300			400			480			600		
		Low	m³/h	200			300			350			450		
	Static Pressure			Pa											
	Refrigerant Type			0(standard)/30(optional) R410A											
	Unit Dimensions	Length*Width*Height	mm	814*476*210								1010*476*210		1214*476*210	
	Weight		kg	16								21.5		26	
	Noise	High/Medium/Low	dB(A)	29/27/24				32/29/25		36/33/30	37/35/32	38/33/28		39/34/30	
Connecting Pipe	Liquid Pipe	mm					φ6.4								
	Gas Pipe	mm	φ9.5								φ12.7				
	Drain Pipe	mm					DN25								


Slim Duct Type (B)

	Unit model MWD-BML			022	025	028	032	036	040	045	050	056	063	071		
	Capacity	Cooling	kW	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1		
	Rated Input Power	Cooling	W	20			30			35			45		55	
	Power Supply			220V~50Hz~1N												
	Air Flow	High	m³/h	450			550			620			800		1000	
		Medium	m³/h	300			400			480			600		800	
		Low	m³/h	200			300			350			450		600	
	Static Pressure		Pa	0(standard)/30(optional)												
	Refrigerant Type			R410A												
	Unit Dimensions	Length*Width*Height	mm	814*476*210								1010*476*210		1214*476*210		
	Weight		kg	16.5				17				20.5		25.5		
	Noise	High/Medium/Low	dB(A)	29/27/24				32/29/25		36/33/30		37/35/32		38/33/28		39/34/30
Connecting Pipe	Liquid Pipe	mm					φ6.4								φ9.5	
	Gas Pipe	mm	φ9.5				φ12.7								φ15.9	
	Drain Pipe	mm	DN25													

30pa Standard Duct Type

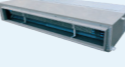
	Unit model MWD-AMS			071	080	090	100	112	120	125	140	150
	Capacity	Cooling	kW	7.1	8.0	9.0	10.0	11.2	12.0	12.5	14.0	15.0
	Rated Input Power	Cooling	W	130			240					
	Power Supply			220V~50Hz~1N								
	Air Flow	High	m³/h	1050			1800					
		Medium	m³/h	900			1600					
		Low	m³/h	750			1300					
	Static Pressure			30								
	Refrigerant Type			R410A								
	Unit Dimensions	Length*Width*Height	mm	1190*643*260			1425*643*260					
	Weight		kg	35			45					
	Noise	High/Medium/Low	dB(A)	38/36/33			45/42/39					
Connecting Pipe	Liquid Pipe	mm	φ9.5									
	Gas Pipe	mm	φ15.9									
	Drain Pipe	mm	DN25									

50Pa Slim Duct Type


	Unit model MWD-AMM			022	025	028	032	036	040	045	050	056	063	071	
	Capacity	Cooling	kW	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	
	Rated Input Power	Cooling	W	75					90		100			110	
	Power Supply			220V~50Hz~1N											
	Air Flow	High	m³/h	500					600		800			1000	
		Medium	m³/h	350					530		650			800	
		Low	m³/h	250					500		550			600	
	Static Pressure			50											
	Refrigerant Type			R410A											
	Unit Dimensions	Length*Width*Height	mm	814*476*210						1010*476*210			1214*476*210		
	Weight		kg	16				16.5			21			25.5	
	Noise	High/Medium/Low	dB(A)	40/38/36				40/38/36			40/38/36			42/40/37	
Connecting Pipe	Liquid Pipe	mm	φ6.4					φ12.7			φ 9.5				
	Gas Pipe	mm	φ9.5				φ15.9								
	Drain Pipe	mm	DN25												

1. The above indoor units' capacity test conditions: cooling 35°C DB/24°C WB (outdoor), 27°C DB/19°C WB (indoor); equivalent length of refrigerant pipe: 5m; height difference between indoor and outdoor units: 0m.
2. Should there be any inconsistency involving parameters, those on the nameplate coming with the unit shall prevail. For reasons like system optimization, upgrades, etc., the data herein is subject to change without prior notice.

50Pa Standard Duct Type

	Unit model MWD-AMM			071	080	090	100	112	120	125	140	150
	Capacity	Cooling	kW	7.1	8.0	9.0	10.0	11.2	12.0	12.5	14.0	15.0
	Rated Input Power	Cooling	W	160			300					
	Power Supply			220V~50Hz~1N								
	Air Flow	High	m³/h	1150			1800					
		Medium	m³/h	900			1550					
		Low	m³/h	700			1350					
	Static Pressure		Pa	50								
	Refrigerant Type			R410A								
	Unit Dimensions	Length*Width*Height	mm	1190*643*260			1425*643*260					
	Weight		kg	35			45					
	Noise	High/Medium/Low	dB(A)	43/40/38			47/45/43					
Connecting Pipe	Liquid Pipe	mm	φ9.5									
	Gas Pipe	mm	φ15.9									
	Drain Pipe	mm	DN25									

High ESP Duct Type

	Unit model MWD-AMH			071	080	090	100	112	120	125	140	150
	Capacity	Cooling	kW	7.1	8.0	9.0	10.0	11.2	12.0	12.5	14.0	15.0
	Rated Input Power	Cooling	W	340			450					
	Power Supply			220V~50Hz~1N								
	Air Flow	High	m³/h	1500			2300					
		Medium	m³/h	1300			2100					
		Low	m³/h	1100			1900					
	Static Pressure			Pa	120							
	Refrigerant Type			R410A								
	Unit Dimensions	Length*Width*Height	mm	1445*680*260			1190*620*370					
	Weight		kg	46			47					
Noise	High/Medium/Low	dB(A)	43/42/40			52/48/44						
Connecting Pipe	Liquid Pipe	mm	φ9.5									
	Gas Pipe	mm	φ15.9									
	Drain Pipe	mm	DN25									

# Extensive Indoor Unit Line-up

## Fresh Air System MWF

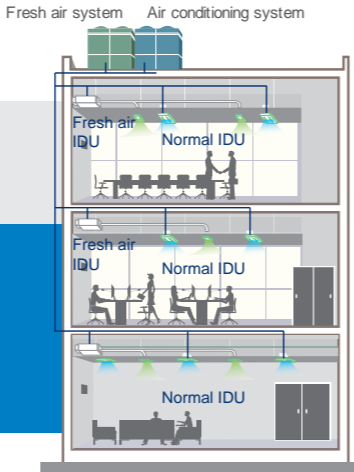


MWF140AMN : 1,400m³/h  
MWF224AMN : 2,000m³/h  
MWF280AMN : 2,800m³/h

MWF450ADN : 4,000m³/h  
MWF560ADN : 6,000m³/h

With the rapid economic development, large office buildings and shopping malls have become the symbol of an affluent and prosperous city. In these large and highly dense enclosures, indraught of fresh air from outside is essential to ensuring the health and well being of the occupants.

The GEN Reacool fresh air system is built on Trane's traditional emphasis on quality to deliver comfortable, healthy and sustainable living and working environments together with the GEN Reacool multi-split air conditioning system.



- The GEN Reacool fresh air system has its own outdoor unit, which can effectively reduce capacity and load of the air conditioning outdoor unit. Especially in transition seasons, the system not only can meet need of fresh air, but also plays a role in room temperature adjustment.
- Its outdoor unit is of the same kind with that of the GEN Reacool air conditioning system, which makes centralized control and coordinated control more convenient.
- The indoor unit provides 5 fresh air processing units with different levels of air flow for options, 1,400m³/h ~ 6,000m³/h, meeting fresh air needs of different-sized spaces. Besides, combinations of units can be used for large spaces.
- Adoption of the DC inverter technology and environment-friendly refrigerant R410A helps to bring about a greener fresh air system.

### Design description

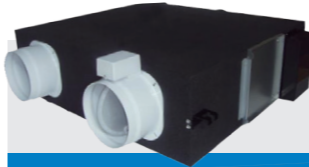
- The GEN Reacool fresh air system provides mixed connection options. MWF140/MWF224/MWF280 can be connected with normal indoor units(Duct & Cassette) in one system but MWF450/MWF560 can only use as an independent system.
- When mixed with normal indoor units, combination rate have to follow rules as below:
  1. (Fresh air units' capacity+Indoor units' capacity)/ Out door unit's capacity ≤ 100%;
  2. Fresh air units' capacity/Out door unit's capacity ≤ 30%.
- Fresh air system can connect to GEN-NET system.

### Parameters Table

INDOOR UNIT MODEL			MWF140AMN	MWF224AMN	MWF280AMN	MWF450ADN	MWF560ADN
Cooling capacity		kW	14.0	22.4	28.0	45.0	56.0
Power supply			220V~50Hz~1Ph			380V~50Hz~3Ph	
Rated power		kW	0.45	1.20		1.30	2.00
Air flow		CMH	1,400	2,000	2,800	4,000	6,000
Static pressure		Pa	196	200	220	300	
Noise value		dB(A)	42-48	48	45-52	58	62
L x W x H		Body mm	1190x620x370	1465x811x448		2165x916x676	
Weight		Body kg	47	102		222	
Connecting pipe	Liquid	mm	Ø9.5	Ø12.7		Ø15.9	
	Gas	mm	Ø15.9	Ø22.2		Ø28.6	
	Drain	mm	DN20	DN30		DN25	
Controller			Wired (standard)/wireless (optional)				

- Note:**
1. Cooling capacity test conditions: outside temperature 33°CDB/28°CWB, 68%RH.
  2. The operation noise values herein are measured in a semi-anechoic room. In actual installation conditions, the actual noise levels are usually higher than values recorded here in due to the influence of ambient noise and reflection effect.
  3. Should there be any inconsistency involving parameters, those on the nameplate coming with the unit shall prevail. For reasons like system optimization, upgrades, etc., the data herein is subject to change without prior notice.

## Total Heat Exchanger



THR025~700AM(D)NENA



Applications: Multi-Use Office Buildings, Hotels, Meeting Rooms, High-End Residences.

### High Static Pressure, Low Operation Noise

- The foam air duct structure is optimized to enable more smooth air flow and higher static pressure.
- The oblique twisted impeller and forward-tilting centrifugal fan have gone through rigorous static and dynamic balance tests, helping to lower the whole unit's operation noise.

### Flexible Application

- Wide operating temperature range: -10°C~45°C.
- Minimum 270mm thickness design (THR025/050 model), suitable for a suspended ceiling with low storey height, bringing more freedom to installation.
- The external static pressure can reach up to 310Pa, increasing design freedom.

### Parameters Table

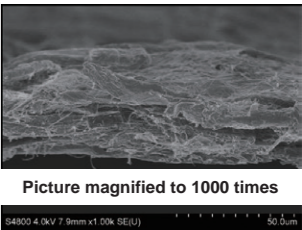
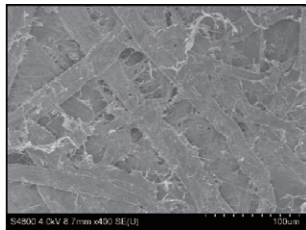
Model		THR-V	025AMNNB	050AMNNB	100AMNNB	150AMNNB	200AMNNB	250ADNNB	300ADNNB
Power supply			220V~50Hz~1Ph					380V~50Hz~3Ph	
Heat exchanging efficiency	Cooling	%				60			
Enthalpy exchanging efficiency	Cooling	%	55		52	55			53
Operating Current	Heat exchangemode	A	0.67	1.72	4.65	4.32	5.73	4.10	4.60
Input power	Heat exchangemode	kW	2x0.074	2x0.189	2x0.511	2x0.475	2x0.63	2x0.75	2x1.02
Dimensions	Length	mm	745	825	1115	1500	1550	1610	1700
	Width	mm	600	905	1135	1200	1400	1330	1500
	Height	mm	270		390	540		600	640
Air pipe size		mm	Ø144	Ø194	Ø242	320x300		365X275	
Fan	Type		Centrifugal fan						
	Motor output	W	2x40	2x180	2x500	2x375	2x550	2x750	2x1000
	Air flow	M³h	250	500	1000	1500	2000	2500	3000
	External Static pressure	Pa	75	100	120	150		200	
Operation noise		dB(A)	41	43	47	54	57	61	64
Weight		kg	30	40	79	151	172	235	245
Operation mode			Heat exchange mode						

Model		THR-	350ADNENB	400ADNENB	450ADNENB	500ADNENB	550ADNENB	600ADNENB	700ADNENB
Power supply			380V~50Hz~3Ph						
Heat exchanging efficiency	Cooling	%	60						
Enthalpy exchanging efficiency	Cooling	%	53	54	52	53	52	51	53
Operating Current	Heat exchangemode	A	5.78	5.76	7.89		9.47		11.57
Input power	Heat exchangemode	kW	2x1.1		2x1.5		2x1.8		2x2.2
Dimensions	Length	mm	1700	1725		1820		2059	
	Width	mm	1500	1330		1660		1780	
	Height	mm	640	1050		1050		1168	
Air pipe size		mm	365x275	370x330		455x360		470x420	
Fan	Type		Centrifugal fan						
	Motor output	W	2x1100	2x1100	2x1500		2x1800		2x2200
	Air flow	M³h	3500	4000	4500	5000	5500	6000	7000
	External Static pressure	Pa	210	220	240		280	290	310
Operation noise		dB(A)	65	66	69	68	71		75
Weight		kg	245	280	291	360	363	357	460
Operation mode			Heat exchange mode						

- Note:**
1. Cooling capacity test conditions: outside temperature 33°CDB/28°CWB, 68%RH.
  2. The operation noise values herein are measured in a semi-anechoic room. In actual installation conditions, the actual noise levels are usually higher than values recorded herein due to the influence of ambient noise and reflection effect.
  3. 025~200 models using LCD wired controller ADC-SD11; 250~700 models using ON/OFF button ADC-SD12
  4. Should there be any inconsistency involving parameters, those on the nameplate coming with the unit shall prevail. For reasons like system optimization, upgrades, etc., the data herein is subject to change without prior notice.

### High Heat Exchanging Efficiency, Comfortable and Energy Saving

- A specially designed wave-shaped inner framework effectively raises heat exchanging efficiency by 10%.
- It uses the 5th-generation high-efficiency heat exchange heterogeneous membrane, whose exchanging efficiency is 17% higher than the conventional heat exchange membrane.



Picture magnified to 1000 times

It uses natural cellulose fibrous material as the substrate—boasting excellent traverse and longitudinal strength required by a total heat exchange membrane, and besides, natural cellulose is not only of certain moisture retention and permeation capabilities, but also environment-friendly and biodegradable.

# Trane Service System

## Complete Sales System

### Pre-Sales



Trane design professionals are at hand to provide detailed solutions for all your indoor comfort requirements. They fully evaluate design parameters prior to installation, including outdoor climate, indoor load, fresh air requirements, as well as system pipe length, outdoor unit cooling and other comprehensive conditions, and propose more appropriate solutions to maximize the performance of the unit.

### In-Sales



To ensure that your systems are fully operational, Trane adheres strictly to international standards and requirements during installation. We provide a comprehensive package of free training, consultancy and technical information materials. Trane service technicians will be on site to help unit start-up and ensure operation reliability.

### After-Sales



Trane is responsive to all your questions and works closely with you to address all your queries and concerns. Our after-sales support has consistently won our customers' trust and praise all over the world. Our representatives of the customer service center work all year long to help customers get fast and effective responses.

## Green Taicang Plant

As a leading global HVAC products, systems and services provider, Trane is committed to environmental protection and promotion of green building development. Being Trane's flagship factory in the Asia Pacific region, the Taicang plant is an environmentally friendly and comprehensive integrated facility providing customers with high quality products and services. Besides the production assembly lines, the modern world-class facility encompasses an R&D center, an advanced compressor assembly plant, an 800m<sup>2</sup> showroom and a training center, as well as a dozen laboratory and production testing loops. It is also LEEDTM (Leadership in Energy and Environmental Design) gold certified from the United States Green Building Council.



## Excellent Service System

Our diverse team of professionals gives the company expertise in building solutions that few companies can match. Trane has more than 5,000 degreed engineers in our global sales force and the Asia team is growing increasingly rapid. Trane has a strong dealer network in various countries in Asia region. They respond quickly to your questions and work closely with you on your air conditioning solution.

Service and maintenance agreements are tailored to customer needs, giving them high flexibility to choose what they really want.

