





Comprehensive product range

Large commercial

Unitary

products

Building control

At Trane, we care about air – cool air, warm air, clean air.

As a world leader in air conditioning systems, services and solutions, we ensure superior air quality for a comfortable environment in homes, and many of the world's largest and most famous commercial, industrial and institutional buildings. We offer a broad range of energy-efficient heating, ventilation and air conditioning (HVAC) systems; dehumidifying and air cleaning products; service and parts support; advanced building controls and financing solutions. With Trane's expertise in environmental technology and energy conservation, we make a difference in energy efficiency around the globe.

1992 1993 2000 1996 the US EPA US Department of Energy

Trane's industry leadership is based on the comprehensive systems we design to address and cater to the specific needs of our

Air-cooled chillers with heat pump options

Water source heat pump systems

Programmable control unit MP581

Packaged units

customers' buildings, complete with sophisticated controls as well as chillers, and supported by Trane parts and services.

Invited by the US DOE for the help the US federal gov

2009

Trane Taicang Factory was LEED Gold certified

2010

Trane serves building owners and construction agents across different markets including:

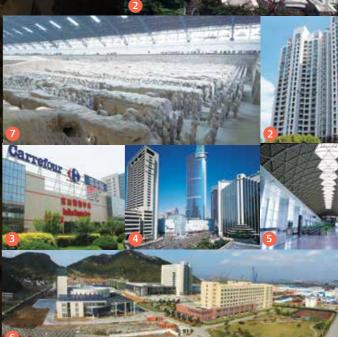
1 Healthcare

395 models of Trane products received the accounting for more than 75% of all products certified

- 2 Residential
- 4 Commercial
- Transportation
- 6 Industry

3 Retail

- 7 Government and public area



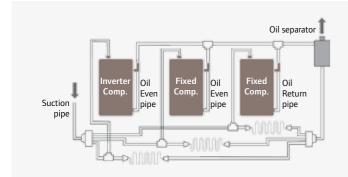
Making buildings better for life





High reliability: *Trane TVR III DC inverter VRF system delivers the* industry's highest efficiency to keep your operating cost low, giving you the highest return on investment.





High efficiency oil balance and oil return technology

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.

High efficiency DC inverter compressor

- · High precision scroll compressor

Neodymium permanent magnet rotor: powerful nagnetic force, large force moment and high efficiency





ner than distributed winding

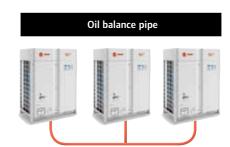
Suction



Core oil control technology for system safety and reliability

In the multi-modular combination system, it is difficult to maintain the oil balance between each compressor in different modules. This could easily lead to compressor oil shortage and breakage.

TVR III has an intelligent oil return program and is equipped with an oil balance pipe between each modular in one system. This auto oil return program monitors the running time and state of system to ensure reliable oil return and reduce the risk of compressor breakage.













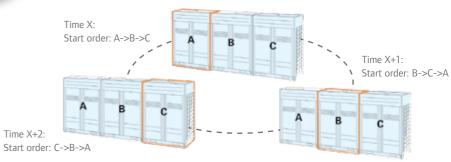
Multiple protection function ensures that system operation becomes more stable

Real-time monitoring and automatic adjustment of operating status: The important operating parameters of the compressor discharge temperature, high and low pressure, 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.



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.

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.









- · High reliability, wide rotation speed range
- High strength bearing, high rigidity shell

Concentrated winding: magnetic efficiency is 12%



Differential pressure oil film

control technology, reducing noise and improving gas tightness

Special scroll design for R410A

Concentrated winding, improving

low frequency efficiency

ligh strength bearing, high



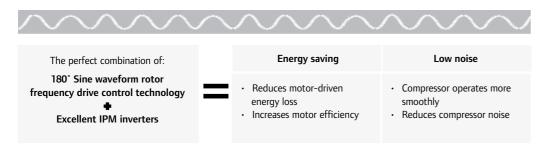


Superior efficiency: Trane provide products such as TVR III to help our customers reduce their energy usage and greenhouse gas emissions, and therefore helps minimize the impact on climate change.

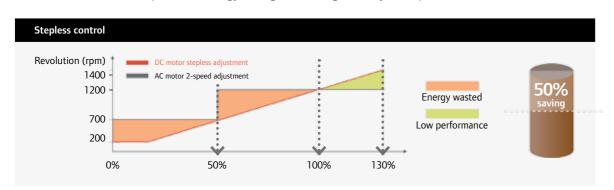


Advanced DC inverter technology, IPLV value far exceeds the industry standards

• 180-degree Sine wave DC inverter technology makes the compressor run more smoothly, is quieter and more efficient.



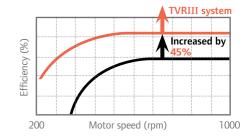
 Achieve stepless control: compressor speed is adjusted according to the load change steplessly and with precision. Energy-saving effect is significantly more pronounced.



High efficiency DC motor

- Low noise and high efficiency because of high-density wire winding engineering.
- · Brushless with built-in sensor.

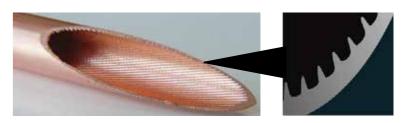


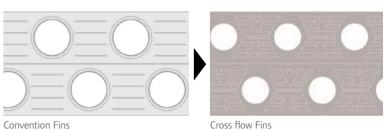


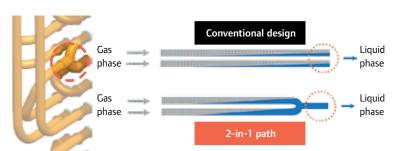
Heat exchanger efficiency; the same capacity now requires less power

- High efficiency copper tube:

 CCT (Continuous Cooling Transformation)
 inner-grooved copper tube has high
 thermometric conductivity that breaks the
 refrigerant flow boundary layer to enhance
 refrigerant disturbance to increase heat
 exchanging efficiency.
- High efficiency Fin for heat exchange:
 Has low air resistance and high heat
 transfer coefficient, frosting is improved,
 frost on the heat exchanger will be welldistributed, easy for defrosting.
- 2-in-1 refrigerant flow path design:
 Liquid refrigerant volume proportion in the condenser outlet is highly increased, allowing the indoor unit to produce more heat (or cool air).

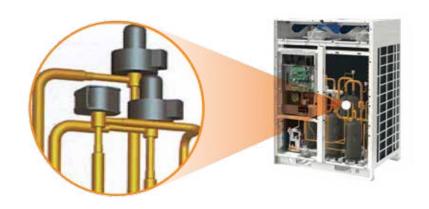






Dual electronic expansion valve design - refrigerant flow control is more accurate and reliable

- The outdoor unit is equipped with up to 960 steps dual electronic expansion valve, rendering the refrigerant flow adjustment to be even more precise.
- The liquid side is controlled by a solenoid valve bypass design to control compressor superheat and provide effective protection of the compressor, to maximize its efficiency, as well as ensure safe and reliable operation.



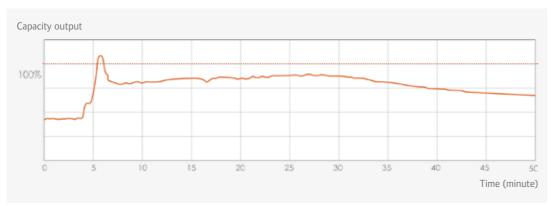


Absolute comfort: massive research and development has gone into the design of our products to deliver maximum ease-of-use and enjoyable indoor environments to end-users - because we care.



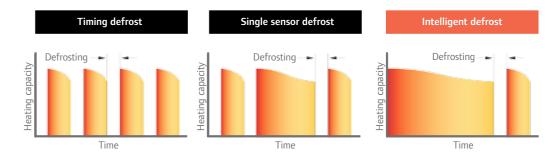
Combination of fixed and inverter compressors to achieve a faster cooling and heating effect

- Each outdoor module has an inverter and a fixed compressor.
- The inverter compressor can be realized from a soft start to the high-frequency operation, thus avoiding the impact on the grid, and to achieve a high connection rate of the indoor units.
- The fixed compressor has the unique advantage to rapidly attain 100% output, takes shorter time to achieve the air conditioning effect and offers a more powerful heating effect in winter.



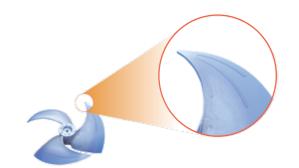
Intelligent defrosting program

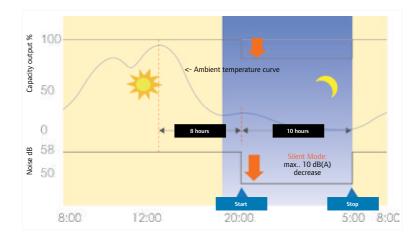
- Intelligent defrost control computes the integrated environmental temperature, the rate of change of the evaporating pressure and temperature and heating operation time to determine before defrosting.
- Effectively extends the running time of heating and avoids frequent and ineffective defrosting.



The outdoor unit uses low-noise technology with night time silent mode for a quieter interior environment

- Low-noise fan blade:
 - · Anti-vibration forward fan blade.
 - Special design for the tips to reduce the air vibration and disturbance.
- Silent mode, night time noise control:
 Particularly suitable for villas and high-end apartments, this technology automatically achieves reduction of the fan and compressor speed by a maximum of 10 dB(A). It allows users to achieve maximum comfortable and avoid disturbing the neighbors.





Super-cooling flow path design

Separates the refrigerant inlet and outlet to increase the degree of super-cooling. This reduces the effect of high temperature inlet gas refrigerant to low temperature outlet liquid refrigerant, and therefore increases system efficiency.



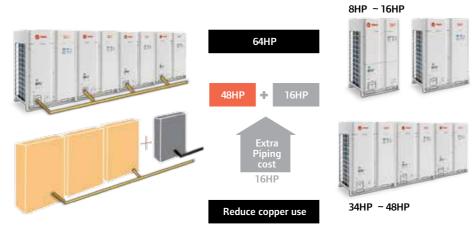


Flexible design: Trane is your choice partner because we understand your needs. TVR III offers a wide range of indoor and outdoor unit capacities that meet any building and interior designs.



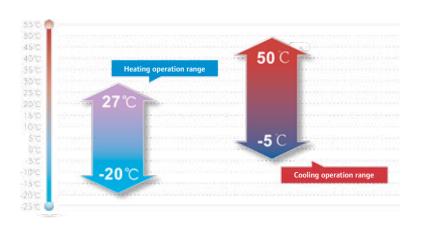
4 units combination, capacity up to 64HP

- With each outdoor unit at 8-16HP as a basic module, the system can achieve a maximum of 4 module combination, making the system more widely applicable to different occasions.
- The outdoor units' capacity range from 8HP up to 64HP. With longest pipe length between
 indoor and outdoor units reaching 200m, maximum 60 indoor units with capacity up to 130%
 of total outdoor units can be connected as one system, making it more widely applicable to
 different building types. The comprehensive indoor unit line-up meets different indoor space
 and comfort needs.



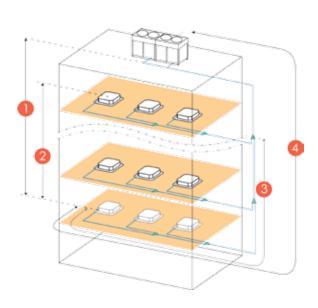
Wide outdoor operation rangeCooling operating temperature is

- Cooling operating temperature is up to 50°C, suitable for tropical region.
- Heating operation temperature is down to
 -20°C, to produce heat in cold winter.



Pipe length and height difference

- Height difference between outdoor and indoor unit is up to 70m*.
- 2. Height difference between indoor units is 15m.
- 3 Length from first indoor distributor to last indoor unit is 65m.
- 4. The longest pipe length is 200m.
- * Note:
- 1. When outdoor unit is below indoor units, the maximum vertical length from indoor unit to outdoor units is 70m.
- 2. When outdoor unit is above indoor units, the maximum vertical length from indoor unit to outdoor units is 50m.



Easy installation

- Flexibility of installation. Choose from left, right, front or under refrigerant pipe connection, design and installation for more flexibility and convenience.
- Thanks to the DC fan motor, external static pressure of the outdoor fan is adjustable up to maximum 85Pa, therefore the air flow won't be affected by the blinds or orifice plates in front of the outdoor unit.





12 TVRIII

System max. 64HP

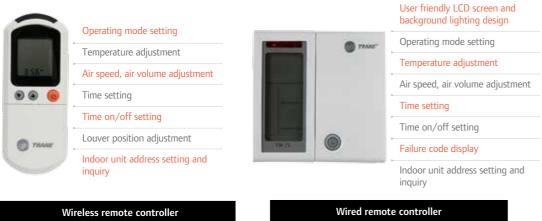


Intelligent control: each day you have the ability to make the choice to take control of your life or to let it control you. Trane puts the control in you - wherever you may be.



Wireless/wired remote controller

- · With bidirectional communication, indoor unit's operating parameters (error code, temperature, address) can be inquired and displayed on the wired controller.
- · Compact design.



Central remote controller

- · One controller can control a maximum of 64 indoor units.
- · Central control for all indoor units and individual control for each indoor unit.

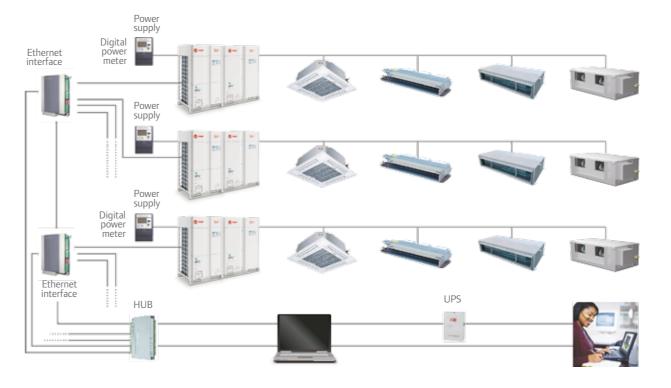


Its user-friendly features include:

- Monitor status
- Failure code display
- · A unified control interface
- · Centralized or separate adjustment of temperature, air speed and operation mode
- System operation mode lock-up

PC control system

- · TVRIII PC control management system, via an Ethernet interface to link multiple refrigerant system for communication and management by PC terminal.
- Operator can monitor and control the entire building's air conditioning operation.



Its user-friendly features include:

· Individual/central control

Error detection

- Monitor status System log
- · Schedule management Permission settings
- · Power distribution Operation record

- Zone control Floor visual navigation
- · Windows XP & Windows 7

and many more

Advanced outdoor unit design: high reliability, comfort and energy saving from the improved heat transfer of the system by using top VRF technologies and efficient components.



High efficiency DC motor

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



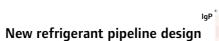
Cross flow Fins

- · Has low air resistance and great heat transfer coefficient
- Frosting is improved, frost on the heat-exchanger will be well-distributed, easy for defrosting

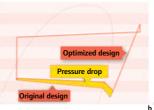


CCT inner-grooved tube

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



New refrigerant pipeline design optimization helps reduce the piping pressure drop by 5% and increase EER and COP



 EER and COP increase because of evaporating temperature increase and compressor work decrease



Outdoor unit line-up and combination

Model name TMR080ADA	8	10	Module combination	14	
TMR080ADA		10	12	3.4	
	_		1Z	14	16
	•				
TMR100ADA		•			
TMR120ADA			•		
TMR140ADA				•	
TMR160ADA					•
TMR180ADA	•	•			
TMR200ADA		••			
TMR220ADA		•	•		
TMR240ADA		•		•	
TMR260ADA		•			•
TMR280ADA			•		•
TMR300ADA				•	•
TMR320ADA					••
TMR340ADA		••		•	
TMR360ADA		••			•
TMR380ADA		•	•		•
TMR400ADA		•		•	•
TMR420ADA		•			••
TMR440ADA			•		••
TMR460ADA				•	••
TMR480ADA					•••
TMR500ADA	•	•			••
TMR520ADA		••			••
TMR540ADA		•	•		••
TMR560ADA		•		•	••
TMR580ADA		•			•••
TMR600ADA			•		•••
TMR620ADA				•	•••
TMR640ADA					••••
	TMR140ADA TMR160ADA TMR160ADA TMR180ADA TMR200ADA TMR220ADA TMR240ADA TMR260ADA TMR280ADA TMR300ADA TMR320ADA TMR340ADA TMR360ADA TMR360ADA TMR400ADA TMR420ADA TMR440ADA TMR450ADA TMR500ADA TMR500ADA TMR500ADA TMR540ADA TMR540ADA TMR560ADA TMR560ADA	TMR120ADA TMR140ADA TMR160ADA TMR180ADA TMR200ADA TMR220ADA TMR240ADA TMR240ADA TMR280ADA TMR300ADA TMR30ADA TMR30ADA TMR340ADA TMR360ADA TMR400ADA TMR40ADA TMR450ADA TMR450ADA TMR460ADA TMR50ADA TMR50ADA TMR50ADA TMR50ADA	TMR120ADA TMR140ADA TMR160ADA TMR180ADA TMR200ADA TMR200ADA TMR220ADA TMR240ADA TMR260ADA TMR300ADA TMR300ADA TMR30ADA TMR340ADA TMR340ADA TMR340ADA TMR40ADA TMR40ADA TMR450ADA TMR450ADA TMR450ADA TMR450ADA TMR450ADA TMR580ADA TMR50ADA TMR540ADA TMR540ADA TMR540ADA TMR540ADA TMR540ADA TMR540ADA TMR540ADA TMR560ADA TMR560ADA TMR580ADA TMR580ADA TMR580ADA TMR600ADA	TMR120ADA TMR140ADA TMR160ADA TMR180ADA TMR200ADA TMR220ADA TMR220ADA TMR260ADA TMR260ADA TMR260ADA TMR360ADA TMR30ADA TMR360ADA TMR360ADA TMR360ADA TMR440ADA TMR440ADA TMR440ADA TMR450ADA TMR450ADA TMR450ADA TMR460ADA TMR460ADA TMR520ADA TMR520ADA TMR520ADA TMR540ADA TMR560ADA TMR560ADA TMR560ADA TMR600ADA	TMR120ADA ● TMR160ADA ● TMR180ADA ● TMR20ADA ● TMR20ADA ● TMR240ADA ● TMR260ADA ● TMR30ADA ● TMR320ADA ● TMR340ADA ● TMR360ADA ● TMR40ADA ● TMR420ADA ● TMR40ADA ● TMR460ADA ● TMR50ADA ● TMR50ADA ● TMR540ADA ● TMR540ADA ● TMR560ADA ● TMR560ADA ● TMR620ADA ● TMR620ADA ● TMR620ADA ● TMR620ADA ● TMR620ADA ●



Extensive indoor unit line-up: when we say TVR III has it all, we mean it. Offering 6 types of indoor units and 41 models at different capacities, virtually any ceiling height, indoor space and comfort needs will be met.

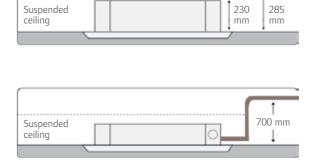




MWC 4-way cassette unit

- Air flow is soft and smooth, air can be delivered to every corner.
- With a slim body with 230mm height, it is specially suitable for low suspended ceiling room.
- Built-in with low noise long life drainage pump, pumping head is 700mm.





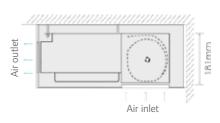
Indoor unit line-up

indoor unit line	-up																
Туре	Cooling capacity (kW)	2.2	2.8	3.2	3.6	4.5	5.1	5.6	7.1	8.0	9.0	10.0	11.2	12.0	12.5	14.0	15.0
4-way cassette			•		•	•		•	•	•	•	•	•		•	•	
Slim duct		•	•	•	•	•		•	•								
Standard duct									•	•	•	•		•			•
High ESP duct									•	•	•	•		•			•
High wall		•	•		•	•	•		•								
Floor/ceiling						•		•	•	•			•				

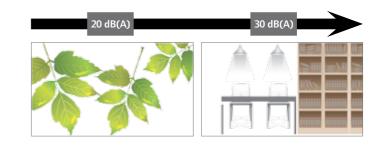


MWD slim duct unit

- Comes in a slim body with 181mm height, it is specially suitable for low suspended ceiling rooms.
- Strong air flow, low noise centrifugal fan blade with special air tunnel system, and the unique shock absorption measures, keeps this series' ducted units' running noise at a low 29 dB(A).



Same height and depth, easy for design and installation, when more units are installed in the same room, they will fit the design decoration perfectly.



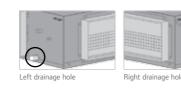


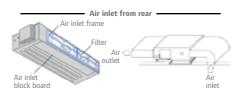


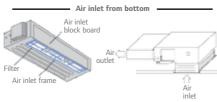
MWD standard static pressure duct unit

- 30 or 50Pa ESP can be flexibly selected to take both sound level and air distribution effect into consideration to fit different installation conditions.
- Reserved drainage pipe outlet holes on left side and right side allows installer to choose the outlet holes on site as per actual conditions, flexible for drainage pipe installation.
- Using multiple noise reduction technology, including the design of high efficiency low noise motor, aviation fan wheel, low vibration wheel casing, unique design, high quality insulation materials in the inner wall configuration enables the units to run in a low-noise condition.
- Air return from rear or bottom is easy to change on site and convenient for installation.





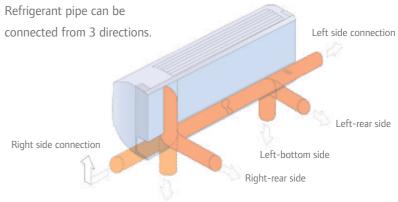






MWW high-wall unit

- Cross flow fan in cooling mode, cold air is blown from a horizontal direction; in heating mode, warm air is blown from the vertical direction.
- 65° wide-angle air supply.

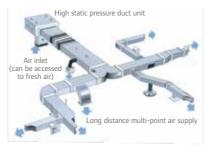


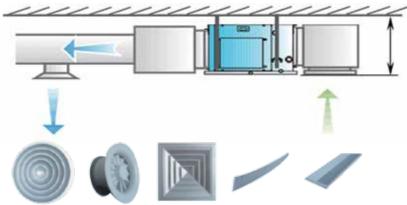


MWD high static pressure duct unit

- High air flow with high static pressure, easy for large rooms duct design, suitable for different shape of room.
- Slim body with 370mm height saves suspended ceiling space.









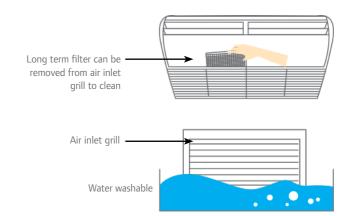




MWX floor/ceiling unit

- Suspended installation saves valuable floor space.
- Configured with low noise, high performance fans that provide high air flow and long distance air supply.
- Three dimensional and wide-angle air supply easily supplied air to
- Suitable supply air angle in different mode.
- Refrigerant pipe can be connected from 3 directions.

Right-bottom side



Performance data (outdoor unit)

Model na	ne		TMR080ADA	TMR100ADA	TMR120ADA	TMR140ADA	TMR160ADA		
Single mo	del		TMR080ADA	TMR100ADA	TMR120ADA	TMR140ADA	TMR160ADA		
Cooling capacity		kW	25.2	28.0	33.5	40.0	45.0		
Heating capacity		kW	27.4	31.5	37.5	45.0	50.0		
Cooling rated input		kW	8.6	9.4	10.0	15.7	16.5		
Heating rated input		kW	8.0	8.5	9.8	13.5	14.5		
Power supply					380V/3Ph/50Hz				
Compressor type					Hermetically sealed scroll type				
Fan type					Axial fan				
Fan motor type					DC inverter				
Fan air flow		СМН	120	000		15000			
Refrigerant type					R410A				
Refrigerant charge		kg	1	0	12	1	5		
Oil type					FVC-68D				
	W	mm	93	70		1260			
Dimensions	D	mm			796				
	Н	mm			1620				
Net weight		kg	2:	30	260	3	10		
Sound level		dB(A)		58/45 (silent night mode)		60/46 (silent night mode)			
Connecting pipe - liq	uid	mm		φ12.7 (threaded connection)		φ15.9 (threaded connection)			
Connecting pipe - gas	s	mm	φ22.2 (welded connection)	φ25.4 (welded connection)		φ28.6 (welded connection)			

Model name			TMR180ADA	TMR200ADA	TMR220ADA	TMR240ADA	TMR260ADA	
Combined mod	els		TMR080ADA + TMR100ADA	TMR100ADA +TMR100ADA	TMR100ADA + TMR120ADA	TMR100ADA + TMR140ADA	TMR100ADA + TMR160ADA	
Cooling capacity		kW	53.2	56.0	61.5	68.0	73.0	
Heating capacity		kW	58.9	63.0	69.0	76.5	81.5	
Cooling rated input		kW	18.0	18.8	19.4	25.1	25.9	
Heating rated input		kW	16.5	17.0	18.3	22.0	23.0	
Power supply					380V/3Ph/50Hz			
Compressor type					Hermetically sealed scroll type			
Fan type					Axial fan			
Fan motor type					DC inverter			
Fan air flow	(СМН	1200	0 x 2		12000 + 15000		
Refrigerant type					R410A			
Refrigerant charge		kg	10 -	+10	10 + 12	10 + 15		
Oil type					FVC-68D			
V	V	mm	970 + 970 970 + 1260					
Dimensions [)	mm			796			
H mm				1620				
Net weight		ka	230 -	+ 230	230 + 260	230 -	+ 310	

Model nar	ne		TMR280ADA	TMR300ADA	TMR320ADA	TMR340ADA	TMR360ADA	
Combined m	odels		TMR120ADA + TMR160ADA	TMR140ADA + TMR160ADA	TMR160ADA + TMR160ADA	TMR100ADA + TMR100ADA + TMR140ADA	TMR100ADA + TMR100ADA + TMR160ADA	
Cooling capacity		kW	78.5	85.0	90.0	96.0	101.0	
Heating capacity		kW	87.5	95.0	100.0	108.0	113.0	
Cooling rated input		kW	26.5	32.2	33.0	34.5	35.3	
Heating rated input		kW	24.3	28.0	29.0	30.5	31.5	
Power supply					380V/3Ph/50Hz			
Compressor type					Hermetically sealed scroll type			
Fan type			Axial fan					
Fan motor type				DC inverter				
Fan air flow		СМН	1500	12000x2 12000x2 + 15000				
Refrigerant type					R410A			
Refrigerant charge		kg	12 + 15	15	+ 15	10 + 1	0 + 15	
Oil type					FVC-68D			
	W	mm		1260 + 1260		970x2 + 1260		
Dimensions	D	mm			796			
	Н	mm			1620			
Net weight		kg	260 -	260 + 310 230 + 230 + 310				

Model na	ame		TMR380ADA	TMR400ADA	TMR420ADA	TMR440ADA	TMR460ADA		
Combined r	nodels		TMR100ADA + TMR120ADA + TMR160ADA	TMR100ADA + TMR140ADA + TMR160ADA	TMR100ADA + TMR160ADA + TMR160ADA	TMR120ADA + TMR160ADA + TMR160ADA	TMR140ADA + TMR160ADA + TMR160ADA		
Cooling capacity		kW	106.5	113.0	118.0	123.5	130.0		
Heating capacity		kW	119.0	126.5	131.5	137.5	145.0		
Cooling rated input		kW	35.9	41.6	42.4	43.0	48.7		
Heating rated input		kW	32.8	36.5	37.5	38.8	42.5		
Power supply					380V/3Ph/50Hz				
Compressor type					Hermetically sealed scroll type				
Fan type					Axial fan				
Fan motor type					DC inverter				
Fan air flow		СМН		12000 + 15000x2		15000 x 3			
Refrigerant type					R410A				
Refrigerant charge		kg	10 + 12 + 15	10 + 1	15 + 15	12 + 15 + 15	15 + 15 + 15		
Oil type					FVC-68D				
	W	mm	974 + 1260x2 1260 x 3						
Dimensions	D	mm							
	Н	mm			1620				
Net weight		kg	230 + 260 + 310	230 + 3	10 + 310	230 + 310 + 310	310 + 310 + 310		
Model na	ame		TMR480ADA	TMR500ADA	TMR520ADA	TMR540ADA	TMR560ADA		
			TMR160ADA	TMR080ADA	TMR100ADA	TMR100ADA	TMR100ADA		

Model na	me		TMR480ADA	TMR500ADA	TMR500ADA TMR520ADA TMR540ADA TMR560ADA					
Combined m	nodels		TMR160ADA + TMR160ADA + TMR160ADA	TMR080ADA + TMR100ADA + TMR160ADA + TMR160ADA	TMR100ADA + TMR100ADA + TMR160ADA + TMR160ADA	TMR100ADA + TMR120ADA + TMR160ADA + TMR160ADA	TMR100ADA + TMR140ADA + TMR160ADA + TMR160ADA			
Cooling capacity		kW	135.0	143.2	146.0	151.5	158.0			
Heating capacity		kW	150.0	158.9	163.0	169.0	176.5			
Cooling rated input		kW	49.5	51.0	51.8	52.4	58.1			
Heating rated input		kW	43.5	45.5	46.0	47.3	51.0			
Power supply					380V/3Ph/50Hz					
Compressor type					Hermetically sealed scroll type					
Fan type	Axial fan									
Fan motor type					DC inverter					
Fan air flow		СМН	15000 x 3	12000x2 =	+ 15000x2	12000 +	12000 + 15000x3			
Refrigerant type					R410A					
Refrigerant charge		kg	15 + 15 + 15	10 + 10 +	+ 15 + 15	10 + 12 + 15 + 15	10 + 15 + 15 + 15			
Oil type				FVC-68D						
	W	mm	1260 x 3	974x2 +	- 1260x2	974 + 1	1260x3			
Dimensions	D	mm			796					
	Н	mm		1620						
Net weight		kg	310 + 310 + 310	230 + 230 + 310 + 310 230 + 260 + 310 + 310 230 + 310 + 310 +						

Combined n	nodels		TMR100ADA + TMR160ADA + TMR160ADA + TMR160ADA	A + TMR160ADA + TMR160ADA + TMR160ADA A + TMR160ADA + TMR160ADA + TMR160ADA A + TMR160ADA + TMR160ADA + TMR160ADA						
Cooling capacity		kW	163.0	168.5	175.0	180.0				
Heating capacity		kW	181.5	187.5	195.0	200.0				
Cooling rated input		kW	58.9	59.5	65.2	66.0				
Heating rated input		kW	52.0	53.3	57.0	58.0				
Power supply				380V/	/3Ph/50Hz					
Compressor type				Hermetically	sealed scroll type					
Fan type				Ax	kial fan					
Fan motor type				DC inverter						
Fan air flow		СМН	15000 x 2	12000x2 + 15000						
Refrigerant type				R410A						
Refrigerant charge		kg	10 + 15 + 15 + 15	12 + 15 + 15 + 15	15 + 15 +	15 + 15				
Oil type				FV	/C-68D					
	W	mm	974 + 1260x3		1260 x 4					
Dimensions	D	mm			796					
	Н	mm	1620							
Net weight		kg	230 + 310 + 310 + 310	260 + 310 + 310 + 310	310 + 310 +	310 + 310				

The cooling conditions: indoor side 27°C (80.6°F) DB, 19°C (60°F) WB, outdoor side 35°C (95°F) DB;
 The heating conditions: indoor side 20°C (68°F) DB, 15°C (44.6°F) WB, outdoor side 7°C (42.8°F) DB;
 The above data may be changed without notice for future improvement on quality and performance.

Performance data (indoor unit)





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MWD slim du	ct	unit						Remote controller (option	n) Wired controller (standar	
Model			MWD022AML	MWD028AML	MWD032AML	MWD036AML	MWD045AML	MWD056AML	MWD071AML	
Cooling capacity		kW	2.2	2.8	3.2	3.6	4.5	5.6	7.1	
Heating capacity		kW	2.5	3.2	3.5	4.0	5.0	6.3	8.0	
Rated input		W	4	5	6	55	75	105		
Power supply						220V/1Ph/50Hz				
Fan air flow		CMH	45	50	5	50	780	110	00	
Fan ESP		Pa				0 ~ 20				
Refrigerant type						R410A				
	W	mm		9	25		1205	153	30	
Dimensions	D	mm				510				
	Н	mm		181						
Net weight		kg	1	7	1	7.5	21	26	5	
Sound level - L/M/H		dB(A)	29/3	3/36	30/3	34/37	32/36/40	35/39	9/42	
Connecting pipe - liqu	iid	mm	φ6	35		φθ	5.35		φ9.52	
Connecting pipe - gas		mm	φ9	.52		φ	12.7		φ15.88	
Connecting pipe - drain mm DN20						DN20				

- Cooling test condition: indoor side 27°C DB, 19°C WB, outdoor side 35°C DB;
 The heating condition: indoor side 20°C DB, 15°C WB, outdoor side 7°C DB;
 The above data may be changed without notice for future improvement on quality and performance;
 MWD slim duct unit is equipped with wired remote controller as standard and wireless remote controller as an option.

MWD standard static pressure duct unit





NIVVD Staffdalfd Static pressure duct unit									
Model			MWD071AMS	MWD080AMS	MWD090AMS	MWD100AMS	MWD120AMS	MWD150AMS	
Cooling capacity		kW	7.1	8.0	9.0	10.0	12.0	15.0	
Heating capacity		kW	8.0	9.0	10.0	11.0	13.0	17.0	
Rated input		W	1	80	340				
Power supply					220V/1	Ph/50Hz			
Fan air flow		CMH	12	220	18	50	20	00	
Fan ESP		Pa			0 ~ 30 (or 0 ~50			
Refrigerant type					R4	10A			
	W	mm	12	209			1445		
Dimensions	D	mm			6	80			
	Н	mm			2	60			
Net weight		kg	1	33			44		
Sound level - L/M/H		dB(A)	36/3	38/41	38/4	0/43	40/4	2/44	
Connecting pipe - liqu	iid	mm	φ9	1.52			φ9.52		
Connecting pipe - gas		mm	φ1	5.88			φ19.05		
Connecting pipe - dra	in	mm			DI	N20			

- Cooling test condition: indoor side 27°C DB, 19°C WB, outdoor side 35°C DB;
- The heating condition: indoor side 20°C DB, 15°C WB, outdoor side 7°C DB;
 The above data may be changed without notice for future improvement on quality and performance;
- 4. MWD standard static pressure duct unit is equipped with wired remote controller as standard and wireless remote controller as an option.

MWD high static pressure duct unit	MWD	high	static	pressure	duct	unit
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MWD high static pressure duct unit			sure duct unit	1	100		Remote controlle	r (option) Wired controller (stand
Model			MWD071AMH	MWD080AMH	MWD090AMH	MWD100AMH	MWD120AMH	MWD150AMH
Cooling capacity		kW	7.1	8.0	9.0	10.0	12.0	15.0
Heating capacity		kW	8.0	9.0	10.0	11.0	13.0	17.0
Rated input		W		340			450	
Power supply					220V/1	1Ph/50Hz		
Fan air flow		CMH		1550 2000			000	2300
Fan ESP		Pa	120					
Refrigerant type			R410A					
	W	mm		1445			1195	
Dimensions	D	mm		680			625	
	Н	mm		260			370	
Net weight		kg		47			49	
Sound level - L/M/H		dB(A)		40/42/43			44 ~ 52	
Connecting pipe - liquid		mm		φ9.52			φ9.52	
Connecting pipe - gas		mm		φ15.88			φ19.05	
Connecting pipe - drain		mm			D	N20		

- 1. Cooling test condition: indoor side 27°C DB, 19°C WB, outdoor side 35°C DB;

 - The heating condition: indoor side 20°C DB, 15°C WB, outdoor side 7°C DB;
 The above data may be changed without notice for future improvement on quality and performance;
 MWD high static pressure duct unit is equipped with wired remote controller as standard and wireless remote controller as an option.

MWX floor/ceiling unit





		_				TICHIOLE COIL	tronci (standard) Wired controller (option
Mod	el		MWX045AMN	MWX056AMN	MWX071AMN	MWX080AMN	MWX112AMN
Cooling capacity		kW	4.5	5.6	7.1	8.0	11.2
Heating capacity		kW	5.0	6.3	8.0	9.0	12.5
Rated input		W		60	1	150	260
Power supply					220V/1Ph/50Hz		
Fan air flow		CMH	9	950	1	300	2300
Refrigerant type					R410A		
	W	mm			1245		1670
Dimensions	D	mm			680		
	Н	mm			240		
Net weight		kg			36		48
Sound level		dB(A)	37	~ 46	39	~ 48	45 ~ 52
Connecting pipe - I	iquid	mm	φ	5.35		φ9.52	
Connecting pipe - gas		mm	φ	12.7	φΊ	5.88	φ19.05
Connecting pipe - drain		mm			DN25		

- Cooling test condition: indoor side 27°C DB, 19°C WB, outdoor side 35°C DB;
 The heating condition: indoor side 20°C DB, 15°C WB, outdoor side 7°C DB;
 The above data may be changed without notice for future improvement on quality and performance;
 MWX floor/ceiling unit is equipped with wireless remote controller as standard and wired remote controller as an option.

MWW high wall unit





Remote controller (standard)	Wired controller	(or

www mgn wan umt						Remote controller (s	tandard) Wired controller (option	
Model	Model		MWW022AMN	MWW028AMN	MWW036AMN	MWW045AMN	MWW051AMN	MWW071AMN
Cooling capacity		kW	2.2	2.8	3.6	4.5	5.1	7.1
Heating capacity		kW	2.5	3.2	4.0	5.0	5.6	8.0
Rated input		W	9	55	58		60	
Power supply			220V/1Ph/50Hz					
Fan air flow		CMH	5	40	600	780	10	00
Refrigerant type								
	W	mm			900		10	30
Dimensions	D	mm			282		30	4
	Н	mm			205		22	1
Net weight		kg			12		10	5
Sound level - L/M/H	Sound level - L/M/H		32/3	34/36	37,	/39/42	44/4	5/48
Connecting pipe - liquid		mm			φ6.35			φ9.52
Connecting pipe - gas		mm	φ	9.52		φ12.7		φ15.88
Connecting pipe - drain		mm				N20		

- Cooling test condition: indoor side 27°C DB, 19°C WB, outdoor side 35°C DB;
 The heating condition: indoor side 20°C DB, 15°C WB, outdoor side 7°C DB;
 The above data may be changed without notice for future improvement on quality and performance;
 MWW high wall unit is equipped with wireless remote controller as standard and wired remote controller as an option.



Performance data (indoor unit)







N // N // // //	/ cassette unit	
IVIVVL 4-Way	/ casserre linit	

Model			MWC028AMN	MWC036AMN	MWC045AMN	MWC056AMN	MWC071AMN	MWC080AMN	
Cooling capacity		kW	2.8	3.6	4.5	5.6	7.1	8.0	
Heating capacity		kW	3.2	4.0	5.0	6.3	8.0	9.0	
Rated input		W			65		154		
Power supply									
Fan air flow		CMH			850		11	50	
Refrigerant type						R410A			
	W	mm				893			
Unit dimensions	D	mm				840			
	Н	mm				230			
Unit net weight		kg			26		2	8	
	W	mm				950			
Panel dimensions	D	mm				950			
	Н	mm				50			
Panel net weight		kg				5			
Sound level - L/M/H		dB(A)	35/36/38				36/38/39		
Connecting pipe - liquid		mm	φ6.35				φ9.52		
Connecting pipe - gas		mm	φ12.7				φ15.88		
Connecting pipe - dr	ain	mm				DN25			

Connecting pipe - dr	aın	mm			DN25				
Model			MWC090AMN	MWC100AMN	MWC112AMN	MWC125AMN	MWC140AMN		
Cooling capacity		kW	9.0	10.0	11.2	12.5	14.0		
Heating capacity		kW	10.0	11.0	12.25	14.0	15.0		
Rated input		W			170				
Power supply					220V/1Ph/50Hz				
Fan air flow		CMH			1800				
Refrigerant type					R410A				
	W	mm			893				
Unit dimensions	D	mm			840				
	Н	mm	285						
Unit net weight		kg			32				
	W	mm			950				
Panel dimensions	D	mm			950				
	Н	mm			50				
Panel net weight		kg			5				
Sound level - L/M/H		dB(A)			37/39/41				
Connecting pipe - liquid		mm	φ9.52						
Connecting pipe - gas		mm			φ19.05				
Connecting pipe - dr	ain	mm	DN25						

- 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;
 The above data may be changed without notice for future improvement on quality and performance;
 MWC 4-way cassette unit is equipped with wireless remote controller as standard and wired remote controller as an option.

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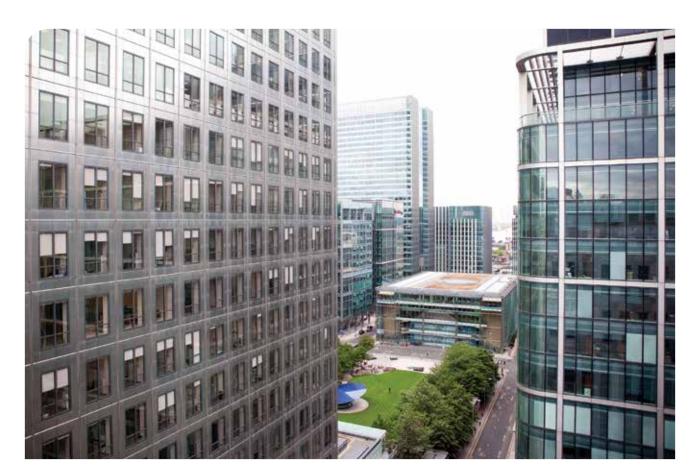
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