



Trane - by Trane Technologies (NYSE: TT), a global climate innovator — creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit trane.com or tranetechnologies.com.

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12/2025



DC Inverter VRF Air Conditioning System





Trane is well positioned to lead the industry in creating comfortable, sustainable and efficient environments with exceptional products.

Trane, a US-based air conditioning expert, has been committed to developing energy-efficient, comfortable and environmentally friendly air conditioning products and system application services since its establishment in 1913.

Trane is now a major global supplier of heating, ventilation, air conditioning and building automation systems. Trane is committed to creating and sustaining the Group's philosophy of safety, comfort, efficiency and environmental protection, providing customers with a full range of high-quality HVAC and control systems, as well as comprehensive engineering installation, building management and parts support services.

- **Energy efficiency**
- **Reliable quality**
- **Comfortable and eco-friendly**

Showcase

Office building

Building area: 161,000 m²

Product: GEN

Capacity: 5,474 HP

Chain store

Building area: 300 ~ 400 m²

Product: GEN, Odyssey

Capacity: 100 sets

Hospital

Building area: 70,000 m²

Product: GEN

Capacity: 1,442 HP

Metro

No. of stations 26

Product: GEN3, TVR II

Capacity: 1,276 HP

Hotel

Product: GEN, Illusion

Capacity: 8,308 HP

Villa & apartment

Developer: Country

Garden

01

02

④ World-class R&D capability provides a strong guarantee of high quality

In China, we have the R&D capability in pace with the world to manufacture a broad range of VRF products adapted to the Chinese market, making the product line more complete.



6 R&D centers and 21 technical facilities around the world



More than 1,600 engineers working on technical improvement



The largest engineering and technology laboratory in the industry



R&D laboratory

The Asia-Pacific R&D Center has established a R&D laboratory with a total investment of more than RMB 100 million in Taicang facility, which is second only to Trane's US laboratory in terms of scale and capability, and is a leading R&D laboratory in the industry in China and Asia.



Postdoctoral research station

In 2007, Trane R&D Center established China's first international postdoctoral research station of HVAC in Taicang, at its own expense. It is the first international high-tech research station in the field of HVAC in China.

④ Comprehensive product portfolio

Trane with its rich product family, advanced professional technology and customer-oriented services has long provided various types of central air conditioning and application systems for customers in various industries. Its products range from small residential central air conditioners to large chillers; from fan coil units to modular air handlers; from unit controls to building management systems, etc., and are widely used in electronics, industry, commercial buildings, supermarket chains, financial institutions, government projects, high-end residences, education and culture and many other fields.

Large commercial HVAC units



Centrifugal chiller



Scroll chiller



Air-side unit

Terminal device

Small and medium-sized units



VRF air conditioning system



Air-cooled heat pump



Air-cooled ducted system



Water source & Geothermal heat pump



Integrated system

Building automation system



TracerSummit control software



Building control units BCU



Programmable controller MP581



GEN-NET



2024



2022



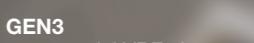
2018



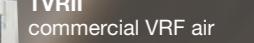
2015



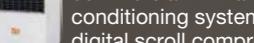
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2002



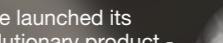
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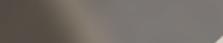
1931



1913



1885



④ Continuous upgrade of Trane VRF systems



The Trane Company was incorporated by Jame Trane in La Crosse, Wisconsin with his invention of steam heating system, which laid the groundwork for the Company's initial operations.

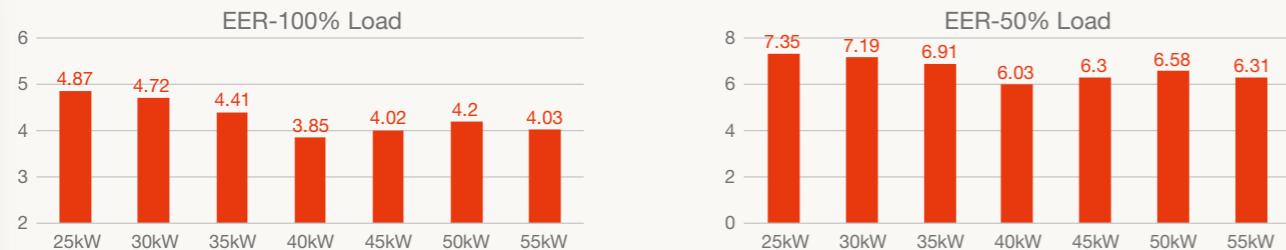


Joined by his son Reuben, Jame Trane developed an innovative HVAC product, and since then, Trane has been committed to developing energy-efficient, comfortable and environmentally friendly air conditioning products and system application technologies.

Based on a century of experience in central air conditioning products, with the application of advanced technologies in various products for residential and commercial use, Trane has introduced the latest 180° sine wave DC inverter technology into the GEN series to provide more efficient and reliable air conditioning system for customers around the world.

Outdoor Unit Features | Energy efficient

① High EER



② Dramatic boost in performance thanks to all inverter compressor system

GEN Elite C series all uses high-efficiency DC inverter compressor, which effectively improves the adjustable capacity range and dynamically adjusts the output based on load changes, together with advanced inverter technology and unique piping design to achieve a significant increase in system performance.

Output on demand achieves high energy efficiency

All inverter air conditioning system: The inverter compressors are turned on simultaneously according to the actual air conditioning demand, and can fully meet the demand and output on demand due to the adjustable capacity.

Non-inverter air conditioning system: Due to the non-linear control of the output, the output is usually higher than the demand first, and then slowly decreases to approach the actual demand, which inevitably results in energy waste.

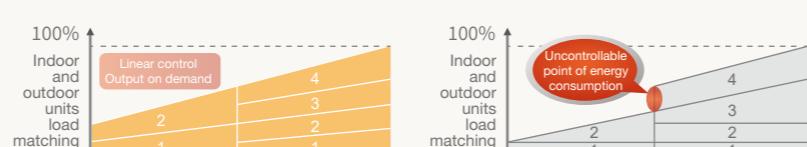


Figure a. GEN Elite C all inverter air conditioning system capacity diagram



Figure b. Non-inverter air conditioning system capacity diagram

Precise temperature control guarantees stable and comfortable environment

Once the target room temperature is set, the air conditioner starts to bring the room temperature close to the set temperature. Non-inverter air conditioning system will stop running upon reaching the set temperature and start again when the temperature deviates from the set temperature to a certain extent, resulting in noticeable changes in room temperature and affecting comfortable experience.

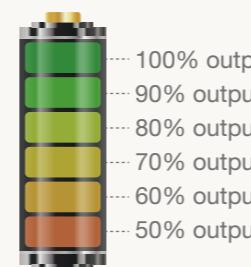
Inverter air conditioning system can adjust the output by changing the compressor speed after the room temperature reaches the set value, and keep running to realize almost no fluctuation of the room temperature and provide more comfortable experience.

③ High Efficiency Compressor



④ Energy Management

For projects with temporary electricity supply restrictions, the outdoor unit supports 50-step energy management which can be set to output 50-100% capacity in 5% increments. It prevents tripping during conditions of restricted electricity supply and allows the system to continue to operate.



⑤ Efficient oil return, intelligent oil control

Sufficient and balanced oil are supplied to each outdoor unit and each compressor under any working conditions to guarantee the safe operation of the outdoor unit and compressor, and avoid potential hazards caused by oil shortage. The unique automatic oil balance system improves the oil tank capacity of high-speed compressor and the reliability of the compressor, ensuring cooling performance while improving reliability.

1st stage: Compressor internal oil separation

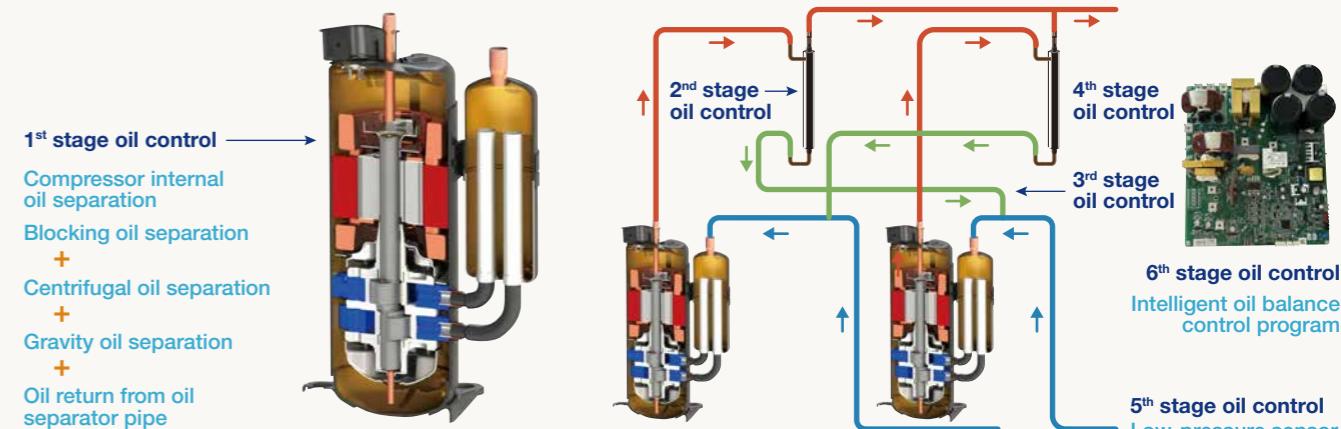
2nd stage: High efficiency oil separator with a separation efficiency up to 99.99%

3rd stage: Oil balance technology between compressors achieves oil balance; intelligent spraying design for cooling control avoids too high oil temperature

4th stage: Pressure control technology in the new oil return control program controls the appropriate pressure and compressor operating frequency during oil return, resulting in more thorough oil return

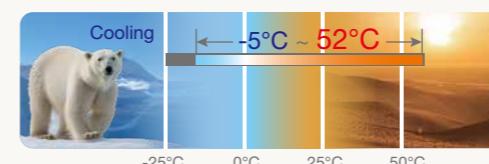
5th stage: Accumulator return oil design avoids oil retention

6th stage: The unique automatic oil balance system improves the oil tank capacity of high speed compressor and the reliability of the compressor, ensuring cooling/heating performance while improving reliability



⑥ Wide Operation Range

Thanks to the refrigerant cooling technology, the Gen Elite C Series VRF can operate stably in a temperature range as low as -5°C and as high as 52°C.



⑦ Insects and reptiles prevention design

Enclosed design for Control box can effectively prevent short circuits caused by insects and reptiles.



⑧ Refrigerant Cooling design

Patented technology microchannel refrigerant cooling plate

1. decrease IPM (intelligent power module) temperature and enhance the reliability

2. Compared with traditional hamburger style Heatsink, IPM temperature is 5°C lower, Compared with air cooling method, IPM temperature is 20°C lower.



⑨ Easy Service

Confirm detailed operational and error status without using any specific equipment.

- Operation status
- Temperature/Pressure status
- Compressor operation status
- Error status
- Address of outdoor unit



Outdoor Unit Features | Reliable quality

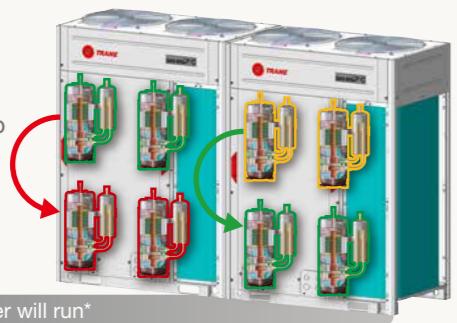
Outdoor units

Double Duty Cycling

In two compressors and multiple units, one can run in backup for another.

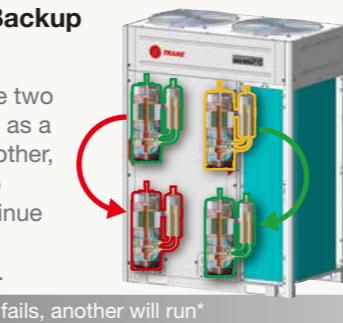
Unit Backup

In a multi-unit system, the different units act as a backup to each other, ensuring that the system can continue to operate if one unit fails.



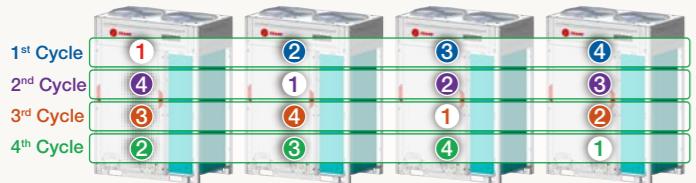
Compressor Backup

In unit with two compressors, the two compressors act as a backup to each other, ensuring that the system can continue to operate if one compressor fails.



Unit Duty Cycling

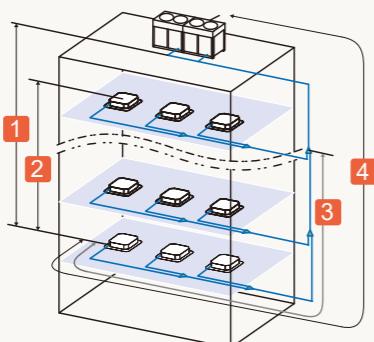
In a multi-unit system, duty cycling equalizes the running time of each outdoor unit, significantly extending unit lifespan.



Long Piping Capability

The Gen Elite C series can support a total piping length of up to 1000m, an installation height difference of up to 110m between indoor and outdoor units, and up to 30m between indoor units, making the Gen Elite C series VRF adaptable to a wide range of building designs.

1. Max. height difference between indoor and outdoor units: 110m (outdoor units are lower than indoor units)
2. Max. height difference between indoor units: 30m
3. Max. equivalent length from the first manifold to the farthest indoor unit: 40m
4. Max. equivalent pipe length between indoor and outdoor units: 230m
5. Long main pipe up to 1,000m



Auto Addressing

Addresses for all indoor units and combined outdoor units can be assigned automatically by the Gen Elite C series, further simplifying installation.

Single Units

Model	TUC0025SD	TUC0030SD	TUC0035SD	TUC0040SD	TUC0025AD	TUC0030AD	TUC0035AD	TUC0040AD	TUC0045AD	TUC0050AD	TUC0055AD	TUC0060AD	TUC0065AD	TUC0070AD								
Cooling capacity	kW Btu/h	25 85,300	30 102,400	35 119,400	40 136,500	25 85,300	30 102,400	35 119,400	40 136,500	45 153,500	50 170,600	55 187,700	60 204,700	65 221,800	70 238,800							
Power supply															380V/3Phase/50Hz/60Hz							
COP (Capacity 100%)	kW/kW	4.87	4.72	4.41	3.85	5.04	4.79	4.40	4.04	4.02	4.20	4.03	3.83	3.87	3.54							
Power consumption	kW	5.13	6.36	7.94	10.39	4.96	6.26	7.95	9.90	11.19	11.90	13.65	15.66	16.80	19.75							
Rated Current	A	8.6	10.7	13.4	17.5	19.9	20.9	23.8	25.6	27.6	32.2	38.7	39.6	41.4	47.9							
Maximum overcurrent protection	A	32			40			25			32		50		63							
Capacity control	%														15-100%							
Fan unit type															Propeller fan							
Fan discharge direction															Horizontal							
Airflow	m³/h cfm	9,150 5,390	9,850 5,800	11,150 6,560	11,900 7,000	8,000 4,710	8,800 5,180	9,500 5,590	10,500 6,180	11,300 6,650	15,300 9,010	16,500 9,710	18,000 10,590	19,000 11,180	19,500 11,480							
Sound pressure level	dB(A)	56	58	60	61	56	57	59	60	61	63	64	65	66	67							
External static pressure available	Pa					30									85							
Dimensions (HxWxD)	mm														1720 x 925 x 785							
Net weight	kg	142			150			188			190		200		235		270		280		285	
Compressor type															Hermetic twin rotary							
Refrigerant charge R410A	kg	3.5				5.1			5.2													
Gas side connection size	mm								ø 25.4													
Liquid side connection size	mm								ø 12.7													
Operating temperature range	°C															-5 to 55						

Notes:

1. Nominal capacities are based on the following conditions.
Cooling: indoor temperature: 27°C DB, 19°C WB; outdoor temperature: 35°C DB; pipe length: 7.5m; height difference between indoor and outdoor units: 0m.
2. Sound level: Anechoic chamber conversion value, measured at a point 1m in front of the unit at a height of 1.5m.

Outdoor Unit Lineup

Model Name	Cooling Capacity			Power Input (kW)	COP	ODU Combination Models			
	kW	HP	Btu/h			ODU #1	ODU #2	ODU #3	ODU #4
TUC0025SD	25	10	85,300	5.1	4.87	TUC0025SD			
	30	12	102,400	6.4	4.72	TUC0030SD			
	35	14	119,400	7.9	4.41	TUC0035SD			
	40	16	136,500	10.4	3.85	TUC0040SD			
TUC0025AD	25	10	85,300	5.0	5.04	TUC0025AD			
	30	12	102,400	6.3	4.79	TUC0030AD			
	35	14	119,400	8.0	4.40	TUC0035AD			
	40	16	136,500	9.9	4.04	TUC0040AD			
TUC0045AD	45	18	153,500	11.2	4.02	TUC0045AD			
	50	20	170,600	11.9	4.20	TUC0050AD			
TUC0055AD	55	22	187,700	13.7	4.03	TUC0055AD			
	60	24	204,700	15.7	3.83	TUC0060AD			
TUC0065AD	65	26	221,800	16.8	3.87	TUC0065AD			
	70	28	238,800	19.8	3.54	TUC0070AD			
TUC0075AD	75 (35+40)	30	255,900	17.9	4.20	TUC0035AD			
	80 (40+40)	32	273,000	19.8	4.04	TUC0040AD			
	85 (40+45)	34	290,000	21.1	4.03	TUC0040AD			
TUC0090AD	90 (45+45)	36	307,000	22.4	4.02	TUC0045AD			
	95 (45+50)	38	324,100	23.1	4.11	TUC0050AD			
TUC0100AD	100 (40+60)	40	341,200	25.6	3.91	TUC0040AD			
	105 (45+60)	42	358,200	26.9	3.91	TUC0045AD			
TUC0110AD	110 (40+70)	44	375,300	29.7	3.71	TUC0040AD			
	115 (45+70)	46	392,300	30.9	3.72	TUC0045AD			
TUC0120AD	120 (60+60)	48	409,400	31.3	3.83	TUC0060AD			
	125 (60+65)	50	426,500	32.5	3.85	TUC0065AD			
TUC0130AD	130 (60+70)	52	443,500	35.4	3.67	TUC0060AD			
	135 (65+70)	54	460,600	36.6	3.69	TUC0065AD			
TUC0140AD	140 (70+70)	56	477,600	39.5	3.54	TUC0070AD			
	145 (45+60+60)	58	494,700	36.8	3.95	TUC0045AD			
TUC0150AD	150 (45+65+60)	60	511,700	38.0	3.94	TUC0045AD			
	155 (45+50+60)	62	528,800	38.8	4.00	TUC0045AD			
TUC0155AD	155 (45+50+60)	62	528,800	38.8	4.00	TUC0050AD			
TUC0160AD	160 (40+60+60)	64	545,900	41.2	3.88	TUC0040AD			</

Indoor units

④ Four-Way Cassette



• 360° Round flow design

360° surrounding air supply brings comfortable environment, more capacity selection, multiple mode switching and convenient installation, airflow is more even with 360° outlet wind.

• New 3D Turbo Fan

- New 3D turbo fan decreases air resistance, so it makes high efficiency and reduces noise level.
- Same air volume, Noise reduce >0.5db(A).
- Same speed air flow up ~5%.

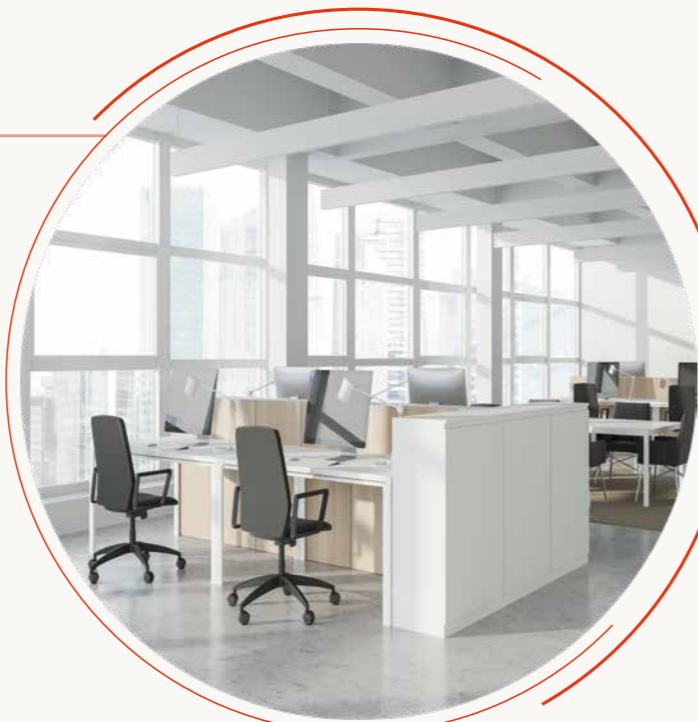
• Reduced energy consumption thanks to specially developed DC fan motor and drain pump

• Built-in lift pump with 1200mm pump head fitted for higher installation freedom

Built-in lift pump with a lift 1200mm helps to save drainage pipe space, especially suitable for suspended ceiling bring more freedom to installation.

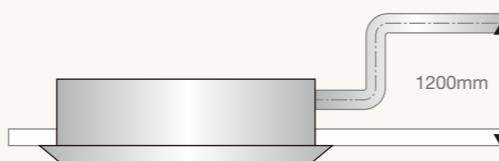
• Fresh air intake

Leave a fresh air interface to allow fresh air intake, enjoy more comfortable indoor environment.



• Provide PM2.5 Filter and Negative ion generator optional

User can choose PM2.5 filter and negative ion generator accessories, enjoy high-quality air.



④ Mid ESP Duct



• Slimmest unit in class, only 245 mm and therefore narrow ceiling voids are no longer a challenge.

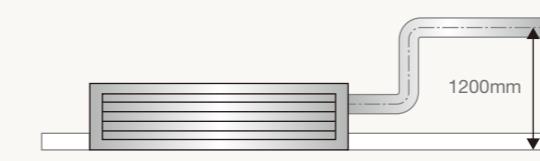
• Medium external static pressure up to 100Pa facilitates using flexible ducts of varying lengths.

• Fresh air intake.

Leave a fresh air interface to allow fresh air intake, enjoy more comfortable indoor environment.

• (Option) Built-in lift pump with 1200 mm pump head fitted for higher installation freedom.

Built-in lift pump with a lift 1200 mm helps to save drainage pipe space, especially suitable for suspended ceiling bring more freedom to installation.



Model		MUC028BP	MUC036BP	MUC045BP	MUC056BP	MUC071BP	MUC080BP	MUC090BP	MUC100BP	MUC112BP	MUC140BP	MUC160BP			
Cooling capacity	kW	2.8	3.6	4.5	5.6	7.1	8	9	10	11.2	14	16			
	Btu/h	9,600	12,300	15,400	19,100	24,200	27,300	30,700	34,100	38,200	48,000	55,000			
Electrical characteristic	Power supply	220V/1Phase/50Hz/60Hz													
Dimensions	Running current A	0.23	0.23	0.25	0.35	0.32	0.33	0.38	0.53	0.65	0.90	1.00			
	Power consumption W	22	22	24	24	31	33	40	58	70	100	110			
Net weight	Body unit mm	840 x 840 x 244				840 x 840 x 288									
	Ceiling panel (HxWxD) mm	950 x 950 x 80													
Fan unit	Body unit kg	20.5			25.0			27.5							
	Ceiling panel kg	6.5													
	Fan type	Single inlet centrifugal fan													
	Standard Airflow (HH/H/M/L/LL) m³/h	760/720/640/560/520	820/760/660/590/540	1090/880/740/590/540	1190/920/790/660/590	1350/1060/890/740/620	1500/1250/1060/740	1710/1400/1200/960/770	2050/1780/1500/1220/960	2240/1860/1580/1300/1080					
	cfm	447/424/376/329/306	482/447/388/347/317	641/518/435/347/318	700/514/465/388/347	794/624/524/435/365	882/735/624/512/435	1006/824/706/565/453	1206/1047/882/718/565	1318/1094/929/765/635					
Sound Pressure Level	HH/H/M/L/LL dB(A)	31/29/27/24/22	32/31/28/26/22	38/35/30/26/22	39/35/31/27/24	41/38/34/29/25	45/42/38/33/30	45/42/38/33/28	48/46/42/36/33	49/47/44/38/35					
Connecting pipe	Gas side mm	ø 12.7										ø 15.9			
	Liquid side mm	ø 6.4										ø 9.5			
	Drain port mm	ø 25 (Polyvinyl chloride tube)													

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.

2. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.

Model		MUD028AM	MUD036AM	MUD045AM	MUD056AM	MUD071AM	MUD080AM	MUD090AM	MUD100AM	MUD112AM	MUD140AM	MUD160AM
Cooling capacity	kW	2.8	3.6	4.5	5.6	7.1	8	9	10	11.2	14	16
	Btu/h	9,600	12,300	15,400	19,100	24,200	27,300	30,700	34,100	38,200	48,000	55,000
Electrical characteristic	Power supply	220V/1Phase/50Hz/60Hz										
Dimensions	Running current A	0.80										1.40
	Power consumption W	163										1.50
Net weight	Body Unit (HxWxD) mm	255 x 990 x 560										255 x 1370 x 560
	Body unit kg	27	27	28	28	28	45	45	45	54	54	54
Fan unit	Fan type	Centrifugal sirocco fan										
	Standard Airflow (HH/H/M/L/LL) m³/h	1050/870/690/670	1500/1130/1030/920									
	cfm	618/512/406/394	882/665/606/541									
	External static pressure (Factory Setting) Pa	30(80)										50(100)
Sound Pressure Level	HH/H/M/L dB(A)	47/42/39/39										51/46/43/43
Connecting pipe	Gas side mm	ø 12.7										ø 15.9
	Liquid side mm	ø 6.4										ø 9.5
	Drain port mm	ø 25 (Polyvinyl chloride tube)										

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.

2. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.

Indoor units

① Ceiling Floor



- A sleek design suits installation either on the ceiling or floor, providing flexibility to accommodate a wide range of room designs

- Two thermistors control

The indoor temperature can be checked using the thermistor in the wired controller as well as from the indoor unit.

- Long air supply distance up to 15m

- Reduced energy consumption thanks to specially developed DC fan motor

- Provide Healthy Filter and optional

User can choose PM2.5 filter and negative ion generator accessories, enjoy high-quality air.

- Can easily be installed in both new and refurbishment projects

- Easy for wire Connection

Don't need to disassemble control box (Hand can reach the connection port and can use screw driver to fix the screws of communication and power wire).



Model		MUZ036BP	MUZ045BP	MUZ056BP	MUZ071BP	MUZ080BP	MUZ090BP	MUZ100BP	MUZ112BP	MUZ140BP	MUZ160BP	
Cooling capacity	kW	3.6	4.5	5.6	7.1	8	9	10	11.2	14	16	
	Btu/h	12,300	15,400	19,100	24,200	27,300	30,700	34,100	38,200	48,000	55,000	
220V/1Phase/50Hz/60Hz												
Electrical characteristic	Power supply	220V/1Phase/50Hz/60Hz										
	Running current	A	0.30	0.35	0.40	0.60	0.50	0.65	0.75	0.85	1.05	1.45
	Power consumption	W	35	40	45	70	60	75	85	95	120	160
Dimensions	Body unit (HxWxD)	mm	245 x 1050 x 680			245 x 1350 x 680			245 x 1650 x 680			
Net weight	kg	28.5		29.5		36.0		43.0				
Fan unit	Fan type	Centrifugal sirocco fan										
	Standard Airflow (HH/H/M/L/LL)	m³/h	960/800/650/ 550/450	1020/850/700/ 550/500	1140/900/800/ 650/550	1300/1050/900/ 800/700	1300/1100/900/ 700/600	1400/1200/1000/ 750/650	1460/1250/1050/ 850/750	1620/1400/1200/ 950/850	2300/2000/1650/ 1350/1200	2400/2150/1800/ 1500/1300
Sound pressure level	HH/H/M/L/LL	dB(A)	37/35/32/27/25	39/37/33/29/26	41/39/35/31/29	44/42/39/35/33	38/36/31/25/21	40/38/33/27/24	41/39/34/29/26	43/41/37/32/29	45/43/39/34/31	47/45/41/35/32
Connecting pipe	Gas side	mm	ø 12.7		ø 15.9							
	Liquis side	mm	ø 6.4		ø 9.5							
	Drain port	mm	ø 25 (Polyvinyl chloride tube)									

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. The dimension is only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.

② High ESP Duct



- The static pressure can reach 250Pa, so the air supply distance is longer

Especially in long and narrow spaces such as corridors, it can reduce the number of units used and save investment costs.

- Built-in with EXV

- High airflow up to 10100 CMH

- AC motor with belt driver

Standard ESP is set at 50 Pa from factory and can be adjusted to meet actual duct length if specified by customer when ordering.



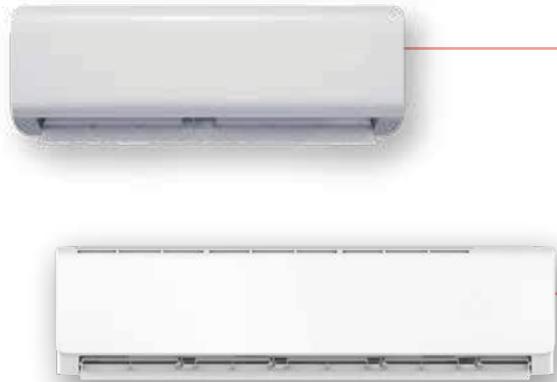
	Model	MUD180AD	MUD220AD	MUD280AD	MUD350AD	MUD450AD	MUD560AD	MUE450AD		
Cooling Capacity	kW	18	22	28	35	45	56	45		
	Btu/h	61,400	75,100	95,500	120,000	153,500	191,100	153,500		
Electrical Characteristic	Power Supply	380V/3Phase/50Hz								
	Running Current	A	1.61	1.99	2.15	2.73	3.03	5.05	3.03	
	Power Consumption	W	730	830	850	1100	1500	2000	1500	
Dimensions	Body Unit (HxWxD)	mm	520 x 1406 x 916			521x 1833 x 926			798 x 2088 x 1260	1751 x 1649 x 876
Net Weight	kg	90	95	138	145	175	181	275		
Fan Unit	Fan Type	Centrifugal Fan Forward Curve Wheel								
	Standard Airflow	m³/h	3400	4250	5770	6800	8500	10200	8500	
		cfm	2000	2500	3400	4000	5000	6000	5000	
	Air Flow Direction	Horizontal Discharge								
Sound Pressure Level	External static pressure (factory setting)	Pa	50 (25-250)							
	dB(A)	50	50	54	55	57	59	70		
	Gas Side	mm	ø 22.2			ø 25.4			ø 34.9	
Connecting pipe	Liquid Side	mm	ø 9.5			ø 12.7			ø 15.9	
	Drain Port	mm	ø 25.4 (Steel pipe-MPT)							

Notes:

1. Normal capacities are based on the following conditions. Cooling indoor temperature 27 °C DB, 19 °C WB, outdoor temperature 35 °C DB, pipe length 7.5 m, with zero level difference.
2. The dimensions are only the body size, excluding the size of the installation lug, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.

Indoor units

Wall Mounted



- Widely use

Wall-mounted ID is widely used in restaurants, study rooms, hotel clubs and other places to provide customers with a comfortable working and living environment.

- Low operation noise

Low operation noise
Ultra-low and quiet operation, using large blade wind wheels, the lowest noise is only 22 dBA

- Slim design

Slim design
Ultra slim body design with only 194 mm height, perfect for interior.



Mid ESP Duct



- Elegant with minimal design

Provide coolness while helping decorate your room with elegant look.

- One-Directional Airflow

Suit with rectangular shape room with long air throw.

- Less installation space

With its height only 250 mm requires less ceiling space make it more easier to be installed in the ceiling.

- Built-in lift pump

Built-in lift pump helps to save draining pipe space, especially suitable for suspended-ceiling provide more freedom for installation.

- Low noise operation

Provide coolness while helping decorate your room with elegant look.

Notes :
1. Normal capacities are based on the following conditions. Cooling indoor temperature 27 °C DB, 19 °C WB, outdoor temperature 35 °C DB, pipe length 7.5 m, with zero level difference.
2. The dimensions is only the body size, excluding the size of the installation tee, connecting copper pipe, etc. For detailed dimensions please refer to the installation manual.

2. The dimensions is only the body size, excluding the size of the installation leg, connecting copper pipe, etc. For detailed dimensions please refer to the installation manual.

Notes :
1. Normal capacities are based on the following conditions. Cooling indoor temperature 27 °C DB, 19 °C WB, outdoor temperature 35 °C DB, pipe length 7.5 m, with zero level difference.
2. The dimensions is only the body size, excluding the size of the installation leg, connecting copper pipe, etc. For detailed dimensions please refer to the installation manual.

Indoor units

① Floor Standing



- Built-in with Silent EXV

- Easy installation

- Washable Filter

- High air volume and low noise

- Serviceability

The unit can be easily serviced and minimum area required just only at the front after panel.

- Galvanized steel with a powder paint finish for corrosion resistance



② Slim Duct



- External static pressure: 0~50Pa

- Low Noise

IDU adopts DC variable frequency brushless motor (BLDC), and the running sound is as low as 18dB(A), which is silent and does not disturb sleep.

- Built-in with Silent EXV

- Build in water DC pump lift high to 1200mm (Optional)



	Model	MUV112AM	MUV140AM	MUV175AM	MUV250AM	MUV350AM
Cooling Capacity	kW	11.2	14	17.5	25	35
	Btu/h	38,200	48,000	60,000	85,300	120,000
220V/1Phase/50Hz/60Hz						
Electrical Characteristic	Power Supply					
	Running Current	A	1.11	1.92	2	2.22
Dimensions	Power Consumption	W	122	211	220	244
	Body Unit (HxWxD)	mm	1900 x 600 x 370	1900 x 848 x 400	1900 x 1196 x 400	
Net Weight	Fan Type					
	Standard Airflow (HH/H/M/L)	m³/h	2100/1700/1400/1240	-/2040/1730/1420	2860/2380/2290/2100	4020/3400/2790/2480
Fan Unit		cfm	1190/1000/830/730	-/1200/1020/840	1690/1400/1350/1240	2370/2000/1650/1460
	Sound Pressure Level	HH/H/M/L	dB(A)	50/46/42/38	-/50/46/42	52/48/48/46
Sound Pressure Level	Gas Side	mm	ø 19	ø 22		ø 28.6
	Liquid Side	mm	ø 9.5	ø 12.7		ø 12.7
Connecting pipe	Drain Port	mm			R3/4in (DN20)	

Notes :

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5 m. with zero level difference.

2. The dimensions is only the body size, excluding the size of the installation leg, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.

Model	MUD022BP	MUD025BP	MUD028BP	MUD032BP	MUD036BP	MUD040BP	MUD045BP	MUD050BP	MUD056BP	MUD063BP	MUD071BP
Cooling Capacity	kW	2.2	2.5	2.8	3.2	3.6	4	4.5	5	5.6	6.3
	Btu/h	7,500	8,500	9,600	10,900	12,300	13,600	15,400	17,000	19,100	21,400
Electrical Characteristic	Power Supply										
	Running Current	A	0.12		0.18		0.2		0.29		
Dimensions	Power Consumption	W	20		30		34		51		
Net Weight	Body Unit (HxWxD)	mm			200 x 700 x 450			200 x 900 x 450		200 x 1100 x 450	
	Body Unit	kg	16		17		21		24		
Fan Unit	Fan Type										
	Standard Airflow (HH/H/M/L)	m³/h	670/610/500/400/340		740/690/600/510/450	800/730/620 /510/490	910/840/720 /600/530	940/870/750 /630/560	1000/920/790/650/570	1360/1260/1100/940/850	
		cfm	400/360/300/240/200		440/410/360/300/270	480/430/370 /300/290	540/500/430 /360/320	560/520/450 /380/330	590/550/470 /390/340	800/750/650/560/500	
Sound Pressure Level	External Static Pressure (Factory Setting)	Pa				12(0~50)					
	HH/H/M/L/LL	dB(A)	30/28/26/22/18		34/32/30/26/24	35/33/31/26/25		36/34/32/28/24		38/36/34/30/28	
Connecting Pipe	Gas Side	mm				ø 12.7				ø 15.9	
	Liquid Side	mm				ø 6.4				ø 9.5	
	Drain Port	mm				ø 25 (Polyvinyl Chloride Tube)					

Notes :

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5 m. with zero level difference.

2. The dimensions is only the body size, excluding the size of the installation leg, connecting copper pipe, etc. For detailed dimensions, please refer to the installation manual.

Indoor units

④ Fresh Air Processing Unit



•100% Fresh Air Processing Unit

•Discharge Air Temperature Control

The Fresh Air Unit adopts target discharge air temperature control instead of normal return air temperature, so it does not increase cooling load to the room.

•Better Air Quality

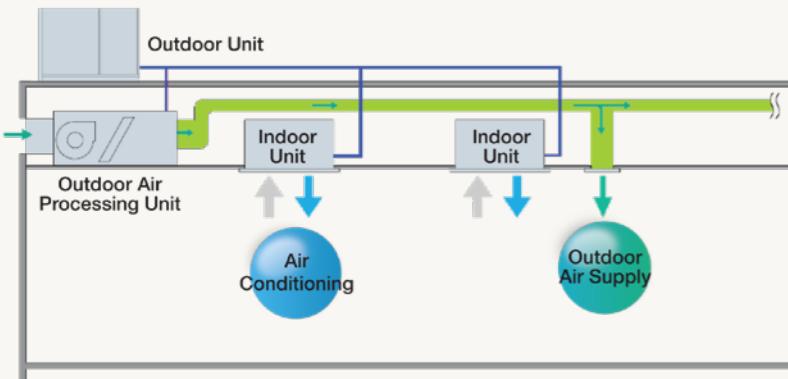
Unit can be provided with optional higher grade pre-filter and medium filters to sieve out both large and small size dust before entering to the room.



Model		MUF125AD	MUF140AD	MUF160AD	MUF180AD	MUF220AD	MUF250AD	MUF280AD	MUF450AD	MUF560AD
Cooling Capacity	kW	12.5	14	16	18	22	25	28	45	56
	Btu/h	42,700	48,000	55,000	61,400	75,100	85,300	95,500	153,500	191,100
Electrical Characteristic									380V/3Phase/50Hz/60Hz	
Running Current	A								3.53	5.16
Power Consumption	W								1500	2200
Dimensions	H x W x D	mm			521 x 1465 x 916			521 x 1833 x 916		798 x 2059 x 1260
Net Weight	Body unit	kg			90			138		181
Fan Unit	Fan Type									Double Inlet Centrifugal Fan Forward Curve Wheel
	Standard Airflow	m³/h	1100	1100	1300	1700	2500	3000	3750	4700
		cfm	650	650	770	1000	1470	1770	2210	3710
	Airflow Direction									Horizontal Discharge
	External static pressure (Factory Setting)	Pa					150 (100-250)		200 (150-300)	300 (150-350)
Sound Pressure Level		dB(A)					51		54	60
Connecting Pipe	Gas Side	mm					ø 15.9		ø 25.4	ø 34.9
	Liquid Side	mm					ø 9.5			ø 12.7
	Drain Port	mm								ø 32 (Steel Pipe-MPT)

Notes :

1. Normal capacities are based on the following conditions. Outdoor temperature 35 °C DB, pipe length 7.5 m, with zero level difference.
2. The dimensions is only the body size, excluding the size of the installation leg, connecting copper pipe, etc. For detailed dimensions please refer to the installation manual.

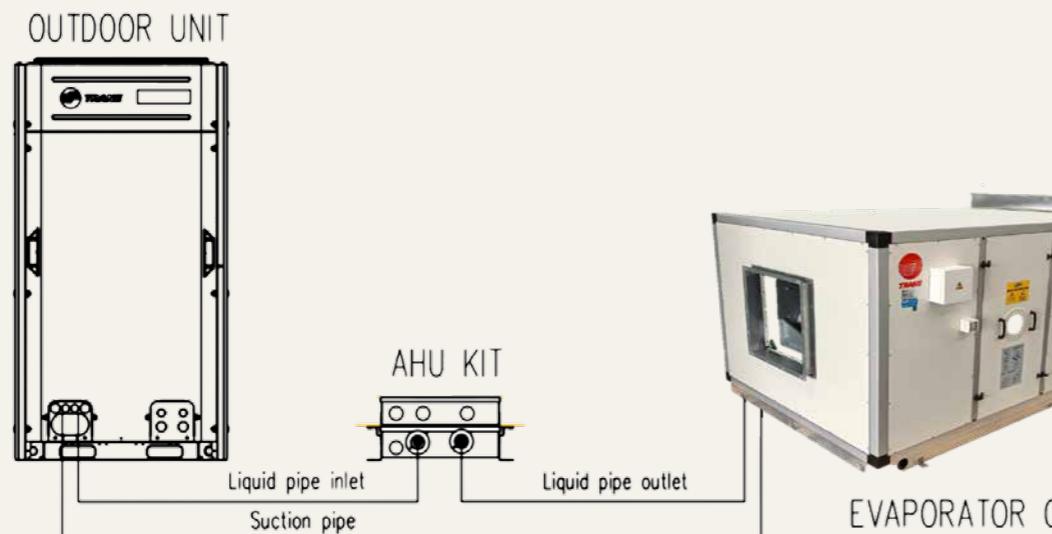


Indoor units

④ AHU Solutions



- Extended cooling capacity to match with specific requirement for large area with duct work.
- AHU kit is used to connect Gen Elite VRF ODU with either single skin or double skin AHU.
- Maximum cooling capacity of 260 kW (887,100 Btu/h) AHU can be matched with VRF ODU.
- Single skin AHU TTV can serve for general use of duct work for commercial building, auditorium, etc.
- Double skin AHU CLCA is used for special application, for example, factory, hospital, laboratory.
- AHU kits are available in three individual capacities as shown below.



Control systems

④ Wired Remote controller



TM-BE0 is a touch button product with rich settings and query functions, it can achieve one-to-one, one to many, and many to many control with indoor units.

- Mode setting
- Fan speed
- Temperature setting
- Clock
- Status display
- Parameter setting and checking
- Infrared reception control

④ Wired Remote controller



Operation buttons:

- mode setting
- Fan speed setting
- Temperature setting
- Sweep
- ECO
- Turbo
- Sleep
- Timer
- Battery level reminder

④ Centralized controller



Providing individual control of 4 groups (zones) of indoor units.

- A maximum of 4 groups (256 indoor units, max. 4 outdoor units) can be controlled
- On/Off setting
- Fan speed/direction setting
- Temperature setting
- Group setting/control

Power Supply 24V



Centralized Controller

RS485



Prepared by customer

A,B

RS485

A,B

RS485