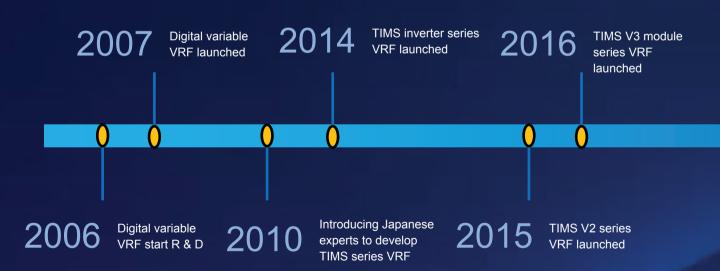




Healthy VRF

VRF Development Process

TIMS



2020 launched in China market 2017 TIMS V4 independent EVI series VRF launched 2019 TIMS V6 independent EVI series VRF launched 2023 Ark series launched

The first 22HP single

compressor VRF

2018 TIMS V5 module EVI series VRF launched



Scientific Research Strength

TICA is the first Chinese central air conditioner brand to establish R&D institute in Japan

Engaged in advanced research on technologies of VRF, heat pump water heater, cryo-refrigeration, heat pump chiller, professional ACU, air purifier, etc.; utilizing talents in Japan to promote the development of Chinese central air-conditioning technology.



Boasting industry-leading CNAS-certified Enthalpy Difference Labs

In accordance with GB, IEC, TUV and CSA standards, adhering to the principles of impartiality, independence and scientific standards as well as people-oriented.









Application Solutions

▶ Office Complexes

Enjoy comfort while working





► Hotels & Shopping Malls

Increase your business, not your bills

Hotels





Shopping malls





Factories

One for Every Factory





Other Applications

Meeting all expectations

Hospitals



Schools



Airports



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Outdoor Unit Lineup

		HP	3	4	4.5	5	6	6.5	7	8	9	10	12	14
	Independent TIMS-DST/DSA	TIMBS 410.								•	•	•	•	•
	Modular TIMS-DXT/DXA	TIMSS								•		•	•	
Air cooled - Heat pump	Side discharge TIMS-CSREA	*TCA								•		•	•	
	Top discharge TIMS-CSRYA	TIMBS enc.								•		•	•	•
	Mini VRF-TIMS- CSREC	erasis dans	•	•	•	•	•	•	•	•	•			
Air cooled - Cooling only	TIMS-CXC	erro Co.								•		•	•	•

- Single unit
- Modular units

Outdoor Unit Lineup

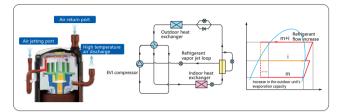
		НР	16	18	20	22	24	26	28	30	32	34	36-48	48-102
	Independent TIMS-DST/DSA	TIMBS 41CA	•	•	•	•	•	•	•	•	•	•		
	Modular TIMS-DXT/DXA	TIMES 41CA	•	•	•	•	•	•	•	•	•	•	•	•
Air cooled - Heat pump	Air cooled - Heat pump Side discharge TIMS-CSREA	•TCA												
	Top discharge TIMS-CSRYA	TIMES	•											
	Mini VRF-TIMS- CSREC	Frank Anna												
Air cooled - Cooling only	TIMS-CXC	enter the	•	•	•	•	•	•	•	•	•	•	•	

- Single unit
- Modular units

High Efficiency

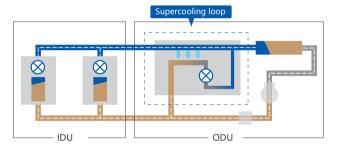
High Efficiency Enhanced Vapor Injection(EVI)Compressor

The enhanced vapor injection DC inverter compressor increases refrigerant circulation and improves both cooling and heating capacity.



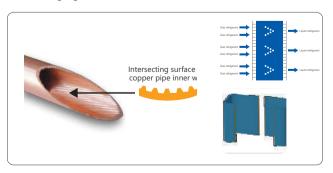
► Two Stage Subcooling

Plate Heat Exchanger as a secondary intercooler boosts up refrigerant subcooling, achieving 12°C stage-1 subcooling, and 20°C stage-2 subcooling. The total subcooling degree reaches 32°C.



High Efficiency double C-Type Heat Exchanger

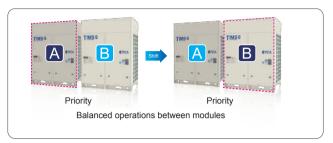
- High efficiency copper pipe with internal thread
- Corrugated fins with openings ,increasing heat exchanging area 15%.
- Specially designed TWO-TO-ONE refrigerant loop, decreasing refrigerant flow resistance.
- Double C type heat exchanger with 6 sides heat exchanging.

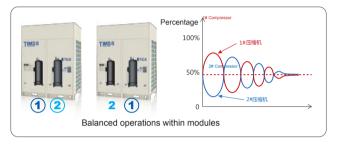


High Reliability

Duty Cycling

Duty cycling equalizes the running time of the outdoor units in a multiple-unit system and of the compressors in each unit, significantly extending compressor lifespan.





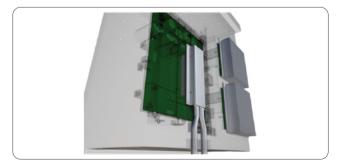
8-Stage Oil Return

Eight stages oil return technology ensure safe and reliable running of the system and achieve 99.99% oil return.

- Compressor internal oil separation and return technology
- · Staged oil storage
- Speed-difference cyclone-type centrifugal oil separation
- Equal-resistance gas-liquid separator
- No oil balance pipe
- Smart oil balance design
- Precise oil return control
- Dual-mode intelligent oil return control

▶ Micro-HEX technology

With the innovative Micro-HEX refrigerant-cooling scheme and the unique aluminum board heat dissipation technology, the temperature difference between the IPM module and the refrigerant (usually 30~55°C) can be reduced to less than 5°C, guaranteeing the stable and safe running of the control system.



Back-up Operation

• Compressor back-up

When one of the ODU compressors is faulty, the other compressor can start emergency operation.



• Frequency converter back-up

When one of the ODU frequency converter is faulty, the other one can start emergency operation.



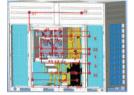
• Fan back-up

When one of the ODU fans is faulty, the other fan can start emergency operation.



Sensor back-up

Equipped with 28 sets sensors + 7 sets VR sensors. When one sensor is faulty, can be replaced with other sensors.



Unit back-up

For a modular unit, when one of the ODU is faulty, the other ODU can start emergency operation.



Electrical Components Highly Integrated Design

Multiple electrical components are integrated into a single board, the integrated design can reduce the wiring connections greatly, making the electrical wiring more simple and reliable.



Precise detection of refrigerant pressure

The high/low pressure sensor is used to monitor the system refrigerant pressure in real time and make sure that the pressure perfectly fit the DC inverter module, thus guaranteeing more stable operation of the unit.



Multiple Protection Function

Multiple protection function, such as safe ground protection, voltage protection, temperature protection, current protection, pressure protection, compressor overload protection, motor overheat protection, etc., ensuring the system consistently safe and reliable operation.



Phase sequence protection

Safe ground

round Power voltage



Compressoer overheat protection



amporature.

► Auto Snow-blowing Function

The innovatively designed auto snow-blowing function enables the outdoor unit to prevent the accumulation of snow by itself.



Dust-clean Function

The innovatively designed dust-clean function enables the outdoor unit to prevent the dust by itself.



Anti-corrosion Protection

 To meet the requirements in severe conditions with high humidity and high level of salt fog in places near seas and rivers, TICA ODU casing adopts thickened sheet metal and multiple advanced spraying techniques to effectively improve the corrosion resistance performance and extend the service life of the air conditioning unit.





Wide Operation Range

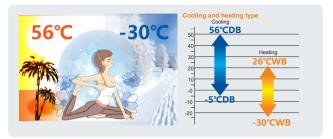
Wide Capacity Range

TICA VRF has an extensive capacity ranging from 3HP to 102HP, meeting all customer requirements from small to large buildings.

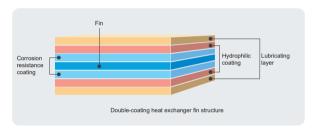


Wide Temperature Range

With an ultra-wide operating range of the ODU (cooling: -5°C to +56°C; heating: -30°C to +26°C), the unit can flexibly respond to the changing outdoor temperature with enhanced stability and applicability.



• The corrosion-resistant layer can effectively slow down the corrosion of heat exchanger by corrosive gases. Thanks to the hydrophilic layer, frosting is less likely to happen during heating operation of the air conditioner, and the drainage during defrosting is more convenient. The lubricating layer can break the surface tension of water, speed up the dropping of condensing water or frostturned water.



 The IDU panel passed the anti-aging test. This ensures that, in everyday use, the panel does not age under strong UV, high temperature, or high humidity conditions.



Wide Range of Indoor Units

TICA provides 16 types and more 170 models of VRF indoor units to meet varied customer requirements in a wide range of locations including offices, shopping malls, hospitals and cinemas.



Enhanced Comfort

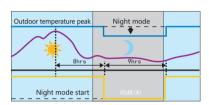
Advanced Silent Technology

• 16 professional noise reduction technologies

- 1 High-efficiency low-noise DC inverter compressor
- 2 Stepless brushless DC motor
- 3 Motor bracket with off-resonance framer
- 4 Unique air injection noise reduction
- Omni-directional acoustical enclosure
- 6 New guide ring
- 750mm large fan
- 8 Refrigerant flow noise reduction

3 silent modes

Night silent mode Forced silent mode Smart silent mode



- 9 Low noise priority mode
- 10 Three silent modes: Smart/Night/Forced Silent
- 11 Compressor jet loop noise reduction
- 180° sine wave control for quiet operation of compressor
- 3 3D simulation pipe vibration reduction
- 14 Streamlined air outlet grille
- 6 ODU casing anti-vibration design
- 16 Fan anti-vibration with CFD

Multiple Priority Modes

Multiple priority modes settings, provide more freedom and convenience to match the customer needs.



► Intelligent Defrosting Technology

TCC defrosting

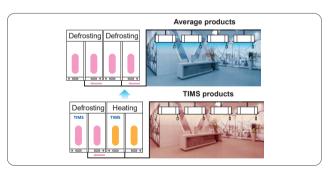
The innovative TCC defrosting technology of TICA adopts the non-stop method for defrosting. Modular units do not need to switch to the cooling mode for defrosting in winter. (patent No.: ZL 2013 2 0344961.5)

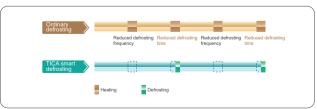
• Smart defrosting/defrosting self-adapting

Temperature sensors and pressure sensors in the system can effectively reduce the times of defrosting, prolong the heating period, and improve the heating efficiency. The defrosting duration can be shortened to 3 to 5 minutes.

Anti-frosting at the bottom

The ice water mixture at the bottom of unit can be completed removed during defrosting in heating mode in winter, so as to avoid impact on the heating capacity, improve the unit stability, and shorten the defrosting duration by 30%.







Easy Installation And Service

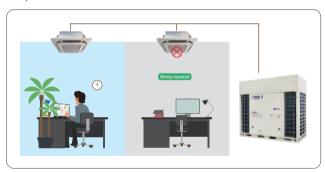
Auto Addressing

Outdoor units can distribute addresses to indoor units automatically. Remote and wired controllers can be used to query or modify each indoor unit's address.



Maintenance Fucntion

The maintenance function allows the shutdown of some indoor units without shutting down the whole VRF system. the maintenance function can be activated on site during maintenance period as the remaining indoor units continue to operate.



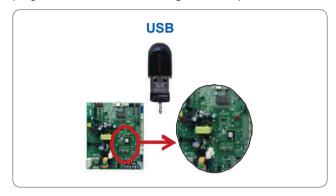
Four-Way Piping Connection

A four-direction space is available for connecting pipes in various installation sites.



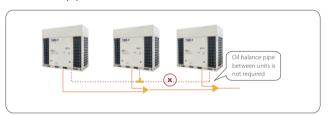
Black Box Technology

The professional "black box" data saving device is provided to store data related to unit operation of up to ten years. In this way, data can be read conveniently during aftersales maintenance and debugging. Program upgrade can be intelligently completed by directly inputting the control program to the black box through relevant ports.



Oil Balance Pipe Not Required

With the new oil management system, there is no need of oil balance pipe.



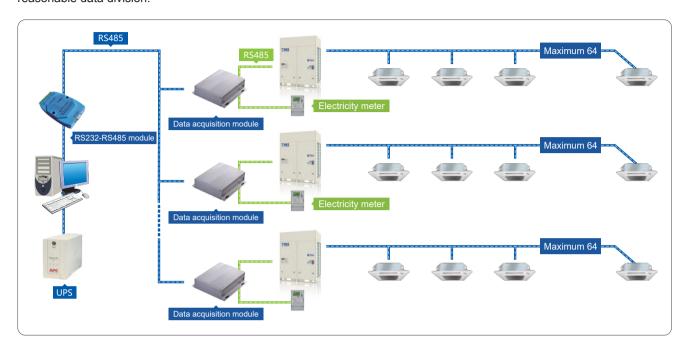
► High External Static Pressure

The static pressure of the outdoor unit can be up to 110Pa which facilitates installation of the unit on each floor of high-rise building or on balconies.



► Household-Based Charging System

For large apartments, hotels, multi-storey tenants, TICA can provide professional electricity billing system, according to the operation of indoor and outdoor machines, electronic valve opening and other information, to achieve scientific and reasonable data division.



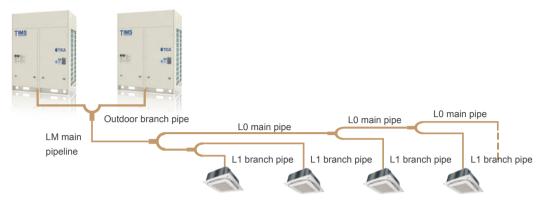
► Intelligent Interlocking For Hotels

Hotel door card can be selected in the application scenarios such as hotels. When the door card is inserted, the IDU can be controlled freely; when the door card is removed, the IDU is turned off automatically after a delay, making hotel management convenient and saving power.



Simple Design Of Refrigerant Piping

ODU main pipe and IDU branch pipe are selected based on the specifications table. When longer pipes are required, refer to the installation manual.



► Main pipeline design for modular series

Total Capacity (kW) of Downstream IDUs	Liquid Pipe Specifications (mm)	Gas Pipe Specifications (mm)	Branch pipe selection		
X<16.8	φ9.52	φ15.88	TBP4022TA		
16.8≤X<22.5	φ9.52	φ19.05	TBP4022TA		
22.5≤X<33.0	φ9.52	φ22.23	TBP4033TA		
33.0≤X<46.0	φ12.7	φ25.40	TBP4072TA		
46.0≤X<67.0	φ15.88	φ28.58	TBP4072TA		
67.0≤X<94.0	φ19.05	φ31.75	TBP4073TA		
94.0≤X<114.0	φ19.05	φ34.92	TBP4073TA		
114.0≤X<140.0	φ19.05	φ38.1	TBP4073TA		
140.0≤X<197.0	φ19.05	φ41.3	TBP4073TA		
X≥197.0	φ22.23	φ44.5	TBP4285TA		

► Main pipeline design for independent series

Total Capacity (kW) of Downstream IDUs	Liquid Pipe Specifications (mm)	Gas Pipe Specifications (mm)	Branch pipe selection		
X<16.8	φ9.52	φ15.88	TBP4022TA		
16.8≤X<22.5	φ9.52	φ19.05	TBP4022TA		
22.5≤X<33.0	φ9.52	φ22.23	TBP4033TA		
33.0≤X<46.0	φ12.7	φ25.40	TBP4072TA		
46.0≤X<67.0	φ15.88	φ28.58	TBP4072TA		
67.0≤X<94.0	φ19.05	φ31.75	TBP4073TA		
X≥94.0	φ19.05	φ34.92	TBP4073TA		





Fresh Air Processing Unit 100% fresh air supply



Ventilation Heat recovery ventilator (HRV)



AHU Connection Kit
Connect to TICA DX AHU



Control Systems
Smart control systems



TIMS Ark Series Heat Pump

Optimized design for small to large buildings

- Enhanced Vapor Injection (EVI) Compressor
- ▶ High Efficiency Double C-Shape Heat Exchanger
- ESP up to 110Pa
- ► Two Stage Subcooling
- ► Eight Stage Oil Return
- ▶ Multi Silent Technologies
- Duty Cycling
- Auto Addressing
- Backup Operation
- Multi Protection
- Anti-Corrosion
- Micro-HEX Technology
- TCC defrost with non-stop
- Auto Snow-blowing Function
- Dust-clean Function
- Precise detection of refrigerant pressure
- ▶ Black Box Technology
- ► BMS
- ▶ Household-based charging system
- Intelligent Interlocking for Hotels

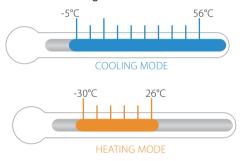
Wide Capacity Range

Starting at 8HP, capacity increases in 2HP increments up to 102HP.



Wide Operating Temperature Range

TIMS Ark VRF can operate stably in a wide ambient temperature range: from -5°C to 56°C in cooling mode and from -30°C to 26°C in heating mode.



Long Piping Capability



PlpIng length	Capabllity (m)
Maximum actual single piping length	200 m
Maximum equivalent single piping length	240 m
Maximum piping (total)	1100 m
Maximum height difference of IDU and ODU	110 m
Maximum height difference of IDUs	30 m
Maximum allowed length pipe after the first branch pipe	90 m*

^{*}Check relevant technical documents or consult technicians.

	Model		TIMS080DXT	TIMS100DXT	TIMS120DXT	TIMS140DXT	TIMS160DXT	TIMS180DXT	TIMS200DXT	TIMS220DXT
	HP		8	10	12	14	16	18	20	22
Comb	ination type		-	-	-	-	-	-	-	-
Power s	upply	V/N/Hz				380-415/	3/50 (60)			
	Capacity	kW	25.2	28.5	33.5	40.0	45.0	50.4	56.0	61.5
*1 Cooling	Power input	kW	5.45	6.75	8.40	10.25	12.10	13.50	15.77	17.75
	EER	1	4.62	4.22	3.99	3.90	3.72	3.73	3.55	3.46
	Capacity	kW	27.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0
*2 Heating	Power input	kW	5.41	6.60	8.30	10.28	12.15	13.60	15.50	16.99
	COP	1	4.99	4.77	4.52	4.38	4.12	4.12	4.06	4.06
Connectable indoor unit	Total capacity	kW			50	%-130% of out	door unit capad	city		
ilidool uliit	Туре	/				DC In	verter			
Compressors	Quantity	/	1	1	1	1	1	1	1	1
	Type	/					' C	ı		ı
Fan motors	Quantity	/	1	1	1	1	1	1	1	1
Airflow		m³/h		12000			13980			800
Net dimension		mm		930×860×1690)		1240×860×169	n		60×1690
	Packed dimensions (W*D*H) mm			995×925×1870			305×925×187			25×1870
	Sound pressure level dB(A			56	57	59	60	61	62	62
	Liquid pipe	mm	56 φ9		φ12.70		φ12.70	01	-	5.88
Pipe connections	Gas pipe	mm	<u> </u>	2.23	φ25.40		φ28.58			3.58
Net we		kg	225	225	225	290	290	290	345	350
Gross w		kg	240	240	240	305	305	305	360	365
	Type	/				1	10A			
Refrigerant	Factory charge	kg	8	8	10	12	12	12	16	16
Operating	Cooling	.€				-5^	-56	l		
temperature range	Heating	℃					~26			
* 3 Maximum fuse current	MFA	Α	20.0	25.0	32.0	40.0	40.0	50.0	50.0	63.0
* 3 Minimum line current	MCA	А	17.4	21.7	25.8	33.0	35.0	39.1	43.5	47.5
		l								
	Model		TIMECOODDVA	TIMESSONNA	TIMS240DXA	TIMESCODYA	TIMS280DXA	TIMESOUDAY	TIMESSOUN	TIMESAUDAY
	HP		20 20	22	24	26	28	30	32	34
Comb	HP Dination type					26	28			
	HP bination type upply	V/N/Hz	20	22	24	26 - 380-415	28 - /3/50(60)	30 -	32	34
Comb Power s	HP bination type upply Capacity	kW	20 -	22 - 61.5	24 - 68.5	26 - 380-415 73.5	28 - /3/50(60) 78.5	30 - 85.0	90.0	34 - 95.2
Comb	HP pination type upply Capacity Power input	kW kW	20 - 56.0 16.00	22 - 61.5 17.87	24 - 68.5 18.60	26 - 380-415 73.5 19.27	28 - (3/50(60) 78.5 20.95	30 - 85.0 22.85	90.0 24.65	95.2 25.75
Comb Power s	HP bination type upply Capacity Power input EER	kW kW	56.0 16.00 3.50	61.5 17.87 3.44	24 - 68.5 18.60 3.68	26 - 380-415 73.5 19.27 3.81	28 - /3/50(60) 78.5 20.95 3.75	30 - 85.0 22.85 3.72	90.0 24.65 3.65	95.2 25.75 3.70
Comb Power s *1 Cooling	HP bination type upply Capacity Power input EER Capacity	kW kW / kW	56.0 16.00 3.50 63.0	61.5 17.87 3.44 69.0	24 - 68.5 18.60 3.68 75.0	26 - 380-415. 73.5 19.27 3.81 81.5	28 - (3/50(60) 78.5 20.95 3.75 87.5	85.0 22.85 3.72 95.0	90.0 24.65 3.65 100.0	95.2 25.75 3.70 106.0
Comb Power s	HP pination type upply Capacity Power input EER Capacity Power input	kW kW / kW kW	56.0 16.00 3.50 63.0 15.60	22 - 61.5 17.87 3.44 69.0 17.30	24 - 68.5 18.60 3.68 75.0 17.60	26 - 380-415. 73.5 19.27 3.81 81.5 19.01	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55	85.0 22.85 3.72 95.0 23.05	90.0 24.65 3.65 100.0 24.15	95.2 25.75 3.70 106.0 25.60
Comb Power s *1 Cooling *2 Heating	HP bination type upply Capacity Power input EER Capacity	kW kW / kW	56.0 16.00 3.50 63.0	61.5 17.87 3.44 69.0	24 - 68.5 18.60 3.68 75.0	26 - 380-415. 73.5 19.27 3.81 81.5	28 - (3/50(60) 78.5 20.95 3.75 87.5	85.0 22.85 3.72 95.0	90.0 24.65 3.65 100.0	95.2 25.75 3.70 106.0
Comb Power s *1 Cooling	HP pination type upply Capacity Power input EER Capacity Power input	kW kW / kW kW	56.0 16.00 3.50 63.0 15.60	22 - 61.5 17.87 3.44 69.0 17.30	24 - 68.5 18.60 3.68 75.0 17.60 4.26	26 - 380-415. 73.5 19.27 3.81 81.5 19.01	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55 4.26	30 - 85.0 22.85 3.72 95.0 23.05 4.12	90.0 24.65 3.65 100.0 24.15	95.2 25.75 3.70 106.0 25.60
Combound Power s *1 Cooling *2 Heating Connectable indoor unit	HP pination type upply Capacity Power input EER Capacity Power input COP	kW kW / kW kW	20 - 56.0 16.00 3.50 63.0 15.60 4.04	61.5 17.87 3.44 69.0 17.30 3.99	24 - 68.5 18.60 3.68 75.0 17.60 4.26	26 - 380-415 73.5 19.27 3.81 81.5 19.01 4.29 %-130% of out	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55 4.26 door unit capace	30 - 85.0 22.85 3.72 95.0 23.05 4.12	90.0 24.65 3.65 100.0 24.15 4.14	95.2 25.75 3.70 106.0 25.60 4.14
Combine Power s *1 Cooling *2 Heating Connectable	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity	kW kW / kW kW /	56.0 16.00 3.50 63.0 15.60	22 - 61.5 17.87 3.44 69.0 17.30	24 - 68.5 18.60 3.68 75.0 17.60 4.26	26 - 380-415. 73.5 19.27 3.81 81.5 19.01 4.29 %-130% of out	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55 4.26 door unit capace	30 - 85.0 22.85 3.72 95.0 23.05 4.12	90.0 24.65 3.65 100.0 24.15	95.2 25.75 3.70 106.0 25.60
*1 Cooling *2 Heating Connectable indoor unit Compressors	HP cination type upply Capacity Power input EER Capacity Power input COP Total capacity Type	kW kW / kW / kW / / kW / / kW / / kW / / / /	20 - 56.0 16.00 3.50 63.0 15.60 4.04	22 - 61.5 17.87 3.44 69.0 17.30 3.99	24 - 68.5 18.60 3.68 75.0 17.60 4.26 50	26 - 380-415. 73.5 19.27 3.81 81.5 19.01 4.29 %-130% of out	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55 4.26 door unit capace verter 2	30 - 85.0 22.85 3.72 95.0 23.05 4.12 Sity	32 - 90.0 24.65 3.65 100.0 24.15 4.14	34 - 95.2 25.75 3.70 106.0 25.60 4.14
Combound Power s *1 Cooling *2 Heating Connectable indoor unit	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity	kW kW / kW kW / kW	20 - 56.0 16.00 3.50 63.0 15.60 4.04	22 - 61.5 17.87 3.44 69.0 17.30 3.99	24 - 68.5 18.60 3.68 75.0 17.60 4.26	26 - 380-415. 73.5 19.27 3.81 81.5 19.01 4.29 %-130% of out	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55 4.26 door unit capace	30 - 85.0 22.85 3.72 95.0 23.05 4.12 Sity	90.0 24.65 3.65 100.0 24.15 4.14	95.2 25.75 3.70 106.0 25.60 4.14
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate	kW kW / kW / kW / / kW / / kW / / kW / / / /	20 - 56.0 16.00 3.50 63.0 15.60 4.04	22 - 61.5 17.87 3.44 69.0 17.30 3.99	24 - 68.5 18.60 3.68 75.0 17.60 4.26 50	26 - 380-415. 73.5 19.27 3.81 81.5 19.01 4.29 %-130% of out	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55 4.26 door unit capace verter 2 C 2	30 - 85.0 22.85 3.72 95.0 23.05 4.12 Sity	32 - 90.0 24.65 3.65 100.0 24.15 4.14	34 - 95.2 25.75 3.70 106.0 25.60 4.14
*1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate	kW kW / kW kW / kW / l	20 - 56.0 16.00 3.50 63.0 15.60 4.04	22 - 61.5 17.87 3.44 69.0 17.30 3.99 2 2 25800 1500×860×169	24 - 68.5 18.60 3.68 75.0 17.60 4.26 50 2	26 - 380-415. 73.5 19.27 3.81 81.5 19.01 4.29 %-130% of out	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55 4.26 door unit capace verter 2 C 2	30 - 85.0 22.85 3.72 95.0 23.05 4.12 Sity 2 2 27000 1900×860×169	32 - 90.0 24.65 3.65 100.0 24.15 4.14	34 - 95.2 25.75 3.70 106.0 25.60 4.14
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate as (W*D*H)	kW kW / kW / kW / kW / l kW /	20 - 56.0 16.00 3.50 63.0 15.60 4.04	22 - 61.5 17.87 3.44 69.0 17.30 3.99 2 2 25800	24 - 68.5 18.60 3.68 75.0 17.60 4.26 50 2	26 - 380-415. 73.5 19.27 3.81 81.5 19.01 4.29 %-130% of out	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55 4.26 door unit capace verter 2 C 2	30 - 85.0 22.85 3.72 95.0 23.05 4.12 Sity	32 - 90.0 24.65 3.65 100.0 24.15 4.14	34 - 95.2 25.75 3.70 106.0 25.60 4.14
*1 Cooling *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimensior	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity and the companies of the c	kW kW / kW / kW / kW / m³/h mm	20 - 56.0 16.00 3.50 63.0 15.60 4.04	22 - 61.5 17.87 3.44 69.0 17.30 3.99 2 2 25800 1500×860×169	24 - 68.5 18.60 3.68 75.0 17.60 4.26 50 2	26 - 380-415. 73.5 19.27 3.81 81.5 19.01 4.29 %-130% of out	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55 4.26 door unit capace verter 2 C 2	30 - 85.0 22.85 3.72 95.0 23.05 4.12 city 2 27000 1900×860×169(1965×925×187) 64	32 - 90.0 24.65 3.65 100.0 24.15 4.14	34 - 95.2 25.75 3.70 106.0 25.60 4.14
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimensior Packed dimensi Sound press	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate as (W*D*H) ons (W*D*H) sure level Liquid pipe	kW kW / kW / kW / / / / / m³/h mm	20 - 56.0 16.00 3.50 63.0 15.60 4.04	22 - 61.5 17.87 3.44 69.0 17.30 3.99 2 2 25800 2500×860×169 262×925×187 62 φ15.88	24 - 68.5 18.60 3.68 75.0 17.60 4.26 50 2	26 - 380-415. 73.5 19.27 3.81 81.5 19.01 4.29 %-130% of out DC In 2 D	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55 4.26 door unit capace verter 2 C 2 63	30	32 - 90.0 24.65 3.65 100.0 24.15 4.14	34 - 95.2 25.75 3.70 106.0 25.60 4.14 2 2 2 65 φ19.05
*1 Cooling *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimension Packed dimensi	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity ate us (W*D*H) sure level	kW kW / kW / kW / / / / / m³/h mm dB(A)	20 - 56.0 16.00 3.50 63.0 15.60 4.04	22 - 61.5 17.87 3.44 69.0 17.30 3.99 2 2 25800 1500×860×169 1562×925×187 62	24 - 68.5 18.60 3.68 75.0 17.60 4.26 50 2	26 - 380-415. 73.5 19.27 3.81 81.5 19.01 4.29 %-130% of out DC In 2 D	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55 4.26 door unit capace verter 2 C 2 63	30 - 85.0 22.85 3.72 95.0 23.05 4.12 city 2 27000 1900×860×169(1965×925×187) 64	32 - 90.0 24.65 3.65 100.0 24.15 4.14	34 - 95.2 25.75 3.70 106.0 25.60 4.14 2
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimensior Packed dimensi Sound press	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate as (W*D*H) ons (W*D*H) sure level Liquid pipe Gas pipe	kW kW / kW / kW / kW / kW / l / kW / l / l / l / l / l / m³/h mm mm dB(A) mm	20 - 56.0 16.00 3.50 63.0 15.60 4.04	22 - 61.5 17.87 3.44 69.0 17.30 3.99 2 2 25800 2500×860×169 262×925×187 62 φ15.88	24 - 68.5 18.60 3.68 75.0 17.60 4.26 50 2	26 - 380-415. 73.5 19.27 3.81 81.5 19.01 4.29 %-130% of out DC In 2 D	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55 4.26 door unit capace verter 2 C 2 63	30	32 - 90.0 24.65 3.65 100.0 24.15 4.14	34 - 95.2 25.75 3.70 106.0 25.60 4.14 2 2 2 65 φ19.05
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimension Packed dimensi Sound press Pipe connections	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate as (W*D*H) sure level Liquid pipe Gas pipe	kW kW / kW / kW / kW / kW / l	20 - 56.0 16.00 3.50 63.0 15.60 4.04 2 2	22 - 61.5 17.87 3.44 69.0 17.30 3.99 2 2 25800 25800×169 2652×925×187 62 φ15.88 φ28.58	24 - 68.5 18.60 3.68 75.0 17.60 4.26 2 2 2	26 - 380-415. 73.5 19.27 3.81 81.5 19.01 4.29 %-130% of out DC In 2 D2 62	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55 4.26 door unit capace verter 2 C 2 63	30	32 - 90.0 24.65 3.65 100.0 24.15 4.14 2 2 2	34 - 95.2 25.75 3.70 106.0 25.60 4.14 2 2 2 65 φ19.05 φ34.92
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimensior Packed dimensi Sound press Pipe connections Net we Gross w	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate as (W*D*H) sure level Liquid pipe Gas pipe	kW kW / kW kW / kW / kW / kW / kW / kW	20 - 56.0 16.00 3.50 63.0 15.60 4.04 2 2 2	22 - 61.5 17.87 3.44 69.0 17.30 3.99 2 2 25800 500×860×169 562×925×187 62 φ15.88 φ28.58 380	24 - 68.5 18.60 3.68 75.0 17.60 4.26 2 2 2 0 0 62	26 - 380-415. 73.5 19.27 3.81 81.5 19.01 4.29 %-130% of out DC In 2 D2 62 460 475	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55 4.26 door unit capace verter 2 C 2 63	30 - 85.0 22.85 3.72 95.0 23.05 4.12 city 2 27000 1900×860×169 1965×925×187 64 9.05	32 - 90.0 24.65 3.65 100.0 24.15 4.14 2 2 2 0 0 64	34 - 95.2 25.75 3.70 106.0 25.60 4.14 2 2 65 \$\phi\$19.05 \$\phi\$34.92 475
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimension Packed dimensi Sound press Pipe connections Net we	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate as (W*D*H) sure level Liquid pipe Gas pipe eight	kW kW / kW / kW / kW / / / / / m³/h mm dB(A) mm kg kg	20 - 56.0 16.00 3.50 63.0 15.60 4.04 2 2 2	22 - 61.5 17.87 3.44 69.0 17.30 3.99 2 2 25800 500×860×169 562×925×187 62 φ15.88 φ28.58 380	24 - 68.5 18.60 3.68 75.0 17.60 4.26 2 2 2 0 0 62	26 - 380-415. 73.5 19.27 3.81 81.5 19.01 4.29 %-130% of out DC In 2 D2 62 460 475	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55 4.26 door unit capace verter 2 C 2 63	30 - 85.0 22.85 3.72 95.0 23.05 4.12 city 2 27000 1900×860×169 1965×925×187 64 9.05	32 - 90.0 24.65 3.65 100.0 24.15 4.14 2 2 2 0 0 64	34 - 95.2 25.75 3.70 106.0 25.60 4.14 2 2 65 \$\phi\$19.05 \$\phi\$34.92 475
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimensior Packed dimensi Sound press Pipe connections Net we Gross w Refrigerant Operating	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate as (W*D*H) source level Liquid pipe Gas pipe eight teight Type	kW kW / kW / kW / kW / / / / / m³/h mm dB(A) mm kg kg	20 - 56.0 16.00 3.50 63.0 15.60 4.04 2 2 2 2 380 395	22 - 61.5 17.87 3.44 69.0 17.30 3.99 2 25800 1500×860×169 1562×925×187 62 φ15.88 φ28.58 380 395	24 - 68.5 18.60 3.68 75.0 17.60 4.26 50 2 2 0 0 62 380 395	26 - 380-415. 73.5 19.27 3.81 81.5 19.01 4.29 %-130% of out DC In 2 2 62 460 475 R4	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55 4.26 door unit capace verter 2 C 2 63	30 - 85.0 22.85 3.72 95.0 23.05 4.12 city 2 27000 1900×860×1690 1965×925×1870 64 9.05 1.75 470 485	32 - 90.0 24.65 3.65 100.0 24.15 4.14 2 2 2 0 0 64	34 - 95.2 25.75 3.70 106.0 25.60 4.14 2 2 2 65 \$\phi\$19.05 \$\phi\$34.92 475 490
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimensior Packed dimensi Sound press Pipe connections Net we Gross w Refrigerant Operating temperature range	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate us (W*D*H) source level Liquid pipe Gas pipe eight Type Factory charge	kW kW / kW / kW / kW / / m³/h mm dB(A) mm kg kg / kg	20 - 56.0 16.00 3.50 63.0 15.60 4.04 2 2 2 2 380 395	22 - 61.5 17.87 3.44 69.0 17.30 3.99 2 25800 1500×860×169 1562×925×187 62 φ15.88 φ28.58 380 395	24 - 68.5 18.60 3.68 75.0 17.60 4.26 50 2 2 0 0 62 380 395	26 - 380-415. 73.5 19.27 3.81 81.5 19.01 4.29 %-130% of out DC In 2 2 0 2 62 460 475 R4 18	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55 4.26 door unit capace verter 2 C 2 63	30 - 85.0 22.85 3.72 95.0 23.05 4.12 city 2 27000 1900×860×1690 1965×925×1870 64 9.05 1.75 470 485	32 - 90.0 24.65 3.65 100.0 24.15 4.14 2 2 2 0 0 64	34 - 95.2 25.75 3.70 106.0 25.60 4.14 2 2 2 65 \$\phi\$19.05 \$\phi\$34.92 475 490
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimensior Packed dimensi Sound press Pipe connections Net we Gross w Refrigerant Operating	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate as (W*D*H) ons (W*D*H) sure level Liquid pipe Gas pipe eight Type Factory charge Cooling	kW kW / kW / kW / kW / / m³/h mm dB(A) mm kg kg / kg ^C	20 - 56.0 16.00 3.50 63.0 15.60 4.04 2 2 2 2 380 395	22 - 61.5 17.87 3.44 69.0 17.30 3.99 2 25800 1500×860×169 1562×925×187 62 φ15.88 φ28.58 380 395	24 - 68.5 18.60 3.68 75.0 17.60 4.26 50 2 2 0 0 62 380 395	26 - 380-415. 73.5 19.27 3.81 81.5 19.01 4.29 %-130% of out DC In 2 2 0 2 62 460 475 R4 18	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55 4.26 door unit capace verter 2 C 2 63	30 - 85.0 22.85 3.72 95.0 23.05 4.12 city 2 27000 1900×860×1690 1965×925×1870 64 9.05 1.75 470 485	32 - 90.0 24.65 3.65 100.0 24.15 4.14 2 2 2 0 0 64	34 - 95.2 25.75 3.70 106.0 25.60 4.14 2 2 2 65 \$\phi\$19.05 \$\phi\$34.92 475 490
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimensior Packed dimensi Sound press Pipe connections Net we Gross w Refrigerant Operating temperature range * 3 Maximum fuse	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate as (W*D*H) sure level Liquid pipe Gas pipe eight Type Factory charge Cooling Heating	kW kW / k	20 - 56.0 16.00 3.50 63.0 15.60 4.04 2 2 2 2 62	22 - 61.5 17.87 3.44 69.0 17.30 3.99 2 2 25800 1500×860×169 1562×925×187 62 φ15.88 φ28.58 380 395	24 - 68.5 18.60 3.68 75.0 17.60 4.26 2 2 2 0 0 62 380 395	26 - 380-415. 73.5 19.27 3.81 81.5 19.01 4.29 %-130% of out DC In 2 D2 62 460 475 R4 18 -530	28 - (3/50(60) 78.5 20.95 3.75 87.5 20.55 4.26 door unit capace verter 2 C 2 63	30	32 - 90.0 24.65 3.65 100.0 24.15 4.14 2 2 2 2 0 0 64 470 485	34 - 95.2 25.75 3.70 106.0 25.60 4.14 2 2 65 \$\phi\$19.05 \$\phi\$34.92 475 490

^{1.} The nominal cooling capacity is measured under the following conditions: indoor temperature of 27.0 °C DB/19.0 °C WB; outdoor temperature of 35.0 °C DB; equivalent refrigerant piping length 10m with zero level difference.

^{2.} The nominal heating capacity is measured under the following conditions: indoor temperature of 20.0 °C DB; outdoor temperature of 7.0 °C DB/6.0 °C WB; equivalent refrigerant piping length 10m with zero level difference.

^{3.} Fuse or circuit breaker is selected based on MFA. Electrical wiring is selected based on MCA.

	Model		TIMS340DXT	TIMS360DXT	TIMS380DXT	TIMS400DXT	TIMS420DXA	TIMS440DXA	TIMS460DXA	TIMS480DXA
	HP		34	36	38	40	42	44	46	48
	oination type		18+16	18+18	18+20 (DXT)	20+20 (DXT)	22+20	22+22	24+22	24+24
Power s		V/N/Hz				380-415/				1
*4.0 "	Capacity	kW	95.4	100.8	106.4	112.0	117.5	123.0	130.0	137.0
*1 Cooling	Power input	kW	25.60	27.00	29.27	31.54	33.87	35.74	36.47	37.20
	EER	/ kW	3.73 106.0	3.73 112.0	3.64 119.0	3.55 126.0	3.47 132.0	3.44 138.0	3.56 144.0	3.68 150.0
*2 Heating	Capacity Power input	kW	25.75	27.20	29.10	31.00	33.00	34.60	34.90	35.20
2 Heating	COP	/	4.12	4.12	4.09	4.06	4.00	3.99	4.13	4.26
Connectable indoor			1.12	1.12			<u> </u>	I.	1.10	1.20
unit	Total capacity	kW			50	%-130% of out	door unit capac	ity		
Compressors	Туре	1				DC In	1			
	Quantity	/	2	2	2	2	4	4	4	4
Fan motors	Туре	/			-	D				
	Quantity	/	2	2	2	2	4	4	4	4
Airflow	rate	m³/h	13980+	-13980	13980+25800			25800+25800		
Net dimension	ns (W*D*H)	mm	(1240+1240))×860×1690	(1240+1500) ×860×1690		(150	0+1500)×860×	1690	
					(1305+1562)					
Packed dimensi	ons (W*D*H)	mm	(1305+1305))×925×1870	×925×1870		(156	2+1562)×925×	1870	
Sound press	sure level	dB(A)	65	65	65	65	65	65	65	65
Pipe connections	Liquid pipe	mm				φ19	0.05			
	Gas pipe	mm		φ34.92				φ38.10		
Net we		kg	290+290	290+290	290+345	345+345	380+380	380+380	380+380	380+380
Gross w		kg	305+305	305+305	305+360	360+360	395+395	395+395	395+395	395+395
Refrigerant	Туре	/	40.40	10:10	10:10	R41		10.10	10.10	10:10
	Factory charge	kg	12+12	12+12	12+16	16+16	16+16	16+16	16+16	16+16
Operating temperature range	Cooling	℃				-5~				
* 3 Maximum fuse	Heating	C				-30'	~26			
current	MFA	Α	90.0	100.0	100.0	100.0	113.0	126.0	126.0	126.0
* 3 Minimum line current	MCA	Α	74.1	78.2	82.6	87.0	91.0	95.0	100.2	105.4
Current										
	Model		TIMS500DXA	TIMS520DXA		TIMS560DXA		TIMS600DXA		
	HP		50	52	54	56	58	60	62	64
Comb	HP pination type	V/N/Hz				56 28+28	58 28+30			
	HP Dination type upply	V/N/Hz	50 24+26	52 26+26	54 26+28	56 28+28 380-415/	58 28+30 (3/50(60)	60 30+30	62 30+32	64 32+32
Comb Power s	HP bination type upply Capacity	V/N/Hz kW kW	50 24+26 142.0	52	54 26+28 152.0	56 28+28 380-415/ 157.0	58 28+30 3/50(60) 163.5	60	62 30+32 175.0	64
Comb	HP Dination type upply	kW	50 24+26	52 26+26 147.0	54 26+28	56 28+28 380-415/	58 28+30 (3/50(60)	60 30+30 170.0	62 30+32	64 32+32 180.0
Comb Power s	HP Dination type upply Capacity Power input	kW kW	50 24+26 142.0 37.87	52 26+26 147.0 38.54	54 26+28 152.0 40.22	56 28+28 380-415/ 157.0 41.90	58 28+30 (3/50(60) 163.5 43.80	60 30+30 170.0 45.70	62 30+32 175.0 47.50	64 32+32 180.0 49.30
Comb Power s	HP bination type upply Capacity Power input EER	kW kW	50 24+26 142.0 37.87 3.75	52 26+26 147.0 38.54 3.81	54 26+28 152.0 40.22 3.78	56 28+28 380-415/ 157.0 41.90 3.75	58 28+30 3/50(60) 163.5 43.80 3.73	60 30+30 170.0 45.70 3.72	62 30+32 175.0 47.50 3.68	64 32+32 180.0 49.30 3.65
Comb Power s *1 Cooling	HP containent type upply Capacity Power input EER Capacity	kW kW / kW	50 24+26 142.0 37.87 3.75 156.5	52 26+26 147.0 38.54 3.81 163.0	54 26+28 152.0 40.22 3.78 169.0	56 28+28 380-415/ 157.0 41.90 3.75 175.0	58 28+30 3/50(60) 163.5 43.80 3.73 182.5	60 30+30 170.0 45.70 3.72 190.0	62 30+32 175.0 47.50 3.68 195.0	64 32+32 180.0 49.30 3.65 200.0
Comb Power s *1 Cooling *2 Heating Connectable indoor	HP pination type upply Capacity Power input EER Capacity Power input COP	kW kW / kW kW	50 24+26 142.0 37.87 3.75 156.5 36.61	52 26+26 147.0 38.54 3.81 163.0 38.02	54 26+28 152.0 40.22 3.78 169.0 39.56 4.27	56 28+28 380-415/ 157.0 41.90 3.75 175.0 41.10	58 28+30 3/50(60) 163.5 43.80 3.73 182.5 43.60 4.19	60 30+30 170.0 45.70 3.72 190.0 46.10 4.12	62 30+32 175.0 47.50 3.68 195.0 47.20	64 32+32 180.0 49.30 3.65 200.0 48.30
Comb Power s *1 Cooling *2 Heating	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity	kW kW / kW kW /	50 24+26 142.0 37.87 3.75 156.5 36.61	52 26+26 147.0 38.54 3.81 163.0 38.02	54 26+28 152.0 40.22 3.78 169.0 39.56 4.27	56 28+28 380-415/ 157.0 41.90 3.75 175.0 41.10 4.26	58 28+30 3/50(60) 163.5 43.80 3.73 182.5 43.60 4.19 door unit capac	60 30+30 170.0 45.70 3.72 190.0 46.10 4.12	62 30+32 175.0 47.50 3.68 195.0 47.20	64 32+32 180.0 49.30 3.65 200.0 48.30
Comb Power s *1 Cooling *2 Heating Connectable indoor	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type	kW kW / kW kW	50 24+26 142.0 37.87 3.75 156.5 36.61 4.27	52 26+26 147.0 38.54 3.81 163.0 38.02 4.29	54 26+28 152.0 40.22 3.78 169.0 39.56 4.27	56 28+28 380-415/ 157.0 41.90 3.75 175.0 41.10 4.26 %-130% of out	58 28+30 3/50(60) 163.5 43.80 3.73 182.5 43.60 4.19 door unit capac	60 30+30 170.0 45.70 3.72 190.0 46.10 4.12	62 30+32 175.0 47.50 3.68 195.0 47.20 4.13	64 32+32 180.0 49.30 3.65 200.0 48.30 4.14
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity	kW kW / kW kW / kW	50 24+26 142.0 37.87 3.75 156.5 36.61	52 26+26 147.0 38.54 3.81 163.0 38.02	54 26+28 152.0 40.22 3.78 169.0 39.56 4.27	56 28+28 380-415/ 157.0 41.90 3.75 175.0 41.10 4.26 %-130% of oute	58 28+30 3/50(60) 163.5 43.80 3.73 182.5 43.60 4.19 door unit capac	60 30+30 170.0 45.70 3.72 190.0 46.10 4.12	62 30+32 175.0 47.50 3.68 195.0 47.20	64 32+32 180.0 49.30 3.65 200.0 48.30
Comb Power s *1 Cooling *2 Heating Connectable indoor unit	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type	kW kW / kW kW / kW	50 24+26 142.0 37.87 3.75 156.5 36.61 4.27	52 26+26 147.0 38.54 3.81 163.0 38.02 4.29	54 26+28 152.0 40.22 3.78 169.0 39.56 4.27 50	56 28+28 380-415/ 157.0 41.90 3.75 175.0 41.10 4.26 %-130% of oute	58 28+30 3/50(60) 163.5 43.80 3.73 182.5 43.60 4.19 door unit capac verter 4	60 30+30 170.0 45.70 3.72 190.0 46.10 4.12 ity	62 30+32 175.0 47.50 3.68 195.0 47.20 4.13	64 32+32 180.0 49.30 3.65 200.0 48.30 4.14
Combine Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity	kW kW / kW kW / kW / l	50 24+26 142.0 37.87 3.75 156.5 36.61 4.27	52 26+26 147.0 38.54 3.81 163.0 38.02 4.29	54 26+28 152.0 40.22 3.78 169.0 39.56 4.27	56 28+28 380-415/ 157.0 41.90 3.75 175.0 41.10 4.26 %-130% of oute	58 28+30 3/50(60) 163.5 43.80 3.73 182.5 43.60 4.19 door unit capac verter 4 C 4	60 30+30 170.0 45.70 3.72 190.0 46.10 4.12	62 30+32 175.0 47.50 3.68 195.0 47.20 4.13	64 32+32 180.0 49.30 3.65 200.0 48.30 4.14
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate	kW kW / kW kW / kW	50 24+26 142.0 37.87 3.75 156.5 36.61 4.27 4 25800+27000 (1500+1900)	52 26+26 147.0 38.54 3.81 163.0 38.02 4.29	54 26+28 152.0 40.22 3.78 169.0 39.56 4.27 50	56 28+28 380-415/ 157.0 41.90 3.75 175.0 41.10 4.26 %-130% of oute DC In 4	58 28+30 3/50(60) 163.5 43.80 3.73 182.5 43.60 4.19 door unit capac verter 4	60 30+30 170.0 45.70 3.72 190.0 46.10 4.12 ity	62 30+32 175.0 47.50 3.68 195.0 47.20 4.13	64 32+32 180.0 49.30 3.65 200.0 48.30 4.14
Combine Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate as (W*D*H)	kW kW / kW kW / kW / m³/h	50 24+26 142.0 37.87 3.75 156.5 36.61 4.27 4 25800+27000 (1500+1900) ×860×1690 (1562+1965)	52 26+26 147.0 38.54 3.81 163.0 38.02 4.29	54 26+28 152.0 40.22 3.78 169.0 39.56 4.27 50	56 28+28 380-415/ 157.0 41.90 3.75 175.0 41.10 4.26 %-130% of oute DC In 4 D 4	58 28+30 3/50(60) 163.5 43.80 3.73 182.5 43.60 4.19 door unit capac verter 4 C 4 2700+27000	60 30+30 170.0 45.70 3.72 190.0 46.10 4.12 iity	62 30+32 175.0 47.50 3.68 195.0 47.20 4.13	64 32+32 180.0 49.30 3.65 200.0 48.30 4.14
Combine Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimension Packed dimensi	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate us (W*D*H) COP*Divided by the control of the contr	kW kW / kW kW / kW / kW / m³/h mm	50 24+26 142.0 37.87 3.75 156.5 36.61 4.27 4 25800+27000 (1500+1900) ×860×1690 (1562+1965) ×925×1870	52 26+26 147.0 38.54 3.81 163.0 38.02 4.29	54 26+28 152.0 40.22 3.78 169.0 39.56 4.27 50	56 28+28 380-415/ 157.0 41.90 3.75 175.0 41.10 4.26 %-130% of out DC In 4	58 28+30 3/50(60) 163.5 43.80 3.73 182.5 43.60 4.19 door unit capac verter 4 C 4 2700+27000 0+1900)×860× 5+1965)×925×	60 30+30 170.0 45.70 3.72 190.0 46.10 4.12 ity 4	62 30+32 175.0 47.50 3.68 195.0 47.20 4.13	64 32+32 180.0 49.30 3.65 200.0 48.30 4.14
Combine Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimension	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate us (W*D*H) Sure level	kW kW / kW kW / kW / kW / m³/h mm dB(A)	50 24+26 142.0 37.87 3.75 156.5 36.61 4.27 4 25800+27000 (1500+1900) ×860×1690 (1562+1965)	52 26+26 147.0 38.54 3.81 163.0 38.02 4.29	54 26+28 152.0 40.22 3.78 169.0 39.56 4.27 50	56 28+28 380-415/ 157.0 41.90 3.75 175.0 41.10 4.26 %-130% of oute DC In 4 (190 (196	58 28+30 3/50(60) 163.5 43.80 3.73 182.5 43.60 4.19 door unit capace verter 4 C 4 2700+27000 10+1900)×860× 15+1965)×925× 66	60 30+30 170.0 45.70 3.72 190.0 46.10 4.12 iity	62 30+32 175.0 47.50 3.68 195.0 47.20 4.13	64 32+32 180.0 49.30 3.65 200.0 48.30 4.14
Combine Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimension Packed dimensi	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate us (W*D*H) sure level Liquid pipe	kW kW / kW kW / kW / kW / kW / m³/h mm dB(A) mm	50 24+26 142.0 37.87 3.75 156.5 36.61 4.27 4 25800+27000 (1500+1900) ×860×1690 (1562+1965) ×925×1870	52 26+26 147.0 38.54 3.81 163.0 38.02 4.29	54 26+28 152.0 40.22 3.78 169.0 39.56 4.27 50	56 28+28 380-415/ 157.0 41.90 3.75 175.0 41.10 4.26 %-130% of oute DC In 4 0 (190 (196) 66 φ22	58 28+30 3/50(60) 163.5 43.80 3.73 182.5 43.60 4.19 door unit capace verter 4 C 4 2700+27000 00+1900)×860× 65+1965)×925× 666 2.23	60 30+30 170.0 45.70 3.72 190.0 46.10 4.12 ity 4	62 30+32 175.0 47.50 3.68 195.0 47.20 4.13	64 32+32 180.0 49.30 3.65 200.0 48.30 4.14
Combine Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimension Packed dimensi Sound press Pipe connections	HP Dination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate as (W*D*H) Sure level Liquid pipe Gas pipe	kW kW / kW kW / kW / kW / kW / l / kw / kw	50 24+26 142.0 37.87 3.75 156.5 36.61 4.27 4 25800+27000 (1500+1900) ×860×1690 (1562+1965) ×925×1870 65	52 26+26 147.0 38.54 3.81 163.0 38.02 4.29	54 26+28 152.0 40.22 3.78 169.0 39.56 4.27 50 4	56 28+28 380-415/ 157.0 41.90 3.75 175.0 41.10 4.26 %-130% of oute DC In 4 (190 (196 66 \$\phi^{22}\$ \$\phi^{41}\$	58 28+30 3/50(60) 163.5 43.80 3.73 182.5 43.60 4.19 door unit capace verter 4 C 4 2700+27000 00+1900)×860× 65+1965)×925× 66 2.23 3.30	60 30+30 170.0 45.70 3.72 190.0 46.10 4.12 iity 4 4	62 30+32 175.0 47.50 3.68 195.0 47.20 4.13	64 32+32 180.0 49.30 3.65 200.0 48.30 4.14
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimensior Packed dimensi Sound press Pipe connections Net we	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate as (W*D*H) sure level Liquid pipe Gas pipe	kW kW / kW kW / kW / kW / kW / kW / kW	50 24+26 142.0 37.87 3.75 156.5 36.61 4.27 4 25800+27000 (1500+1900) ×860×1690 (1562+1965) ×925×1870 65	52 26+26 147.0 38.54 3.81 163.0 38.02 4.29 4	54 26+28 152.0 40.22 3.78 169.0 39.56 4.27 50 4	56 28+28 380-415/ 157.0 41.90 3.75 175.0 41.10 4.26 %-130% of oute DC In 4 0 (190 (196) 66 φ22	58 28+30 3/50(60) 163.5 43.80 3.73 182.5 43.60 4.19 door unit capac verter 4 C 4 2700+27000 0+1900)×860× 0+1955)×925× 66 2.23 3.30 470+470	60 30+30 170.0 45.70 3.72 190.0 46.10 4.12 iity 4 4 1690 1870 66	62 30+32 175.0 47.50 3.68 195.0 47.20 4.13	64 32+32 180.0 49.30 3.65 200.0 48.30 4.14
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimensior Packed dimensi Sound press Pipe connections Net we Gross w	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate as (W*D*H) sure level Liquid pipe Gas pipe	kW kW / kW kW / kW / kW / kW / l / kw / kw	50 24+26 142.0 37.87 3.75 156.5 36.61 4.27 4 25800+27000 (1500+1900) ×860×1690 (1562+1965) ×925×1870 65	52 26+26 147.0 38.54 3.81 163.0 38.02 4.29	54 26+28 152.0 40.22 3.78 169.0 39.56 4.27 50 4	56 28+28 380-415/ 157.0 41.90 3.75 175.0 41.10 4.26 %-130% of oute DC In 4 (190 (196 66	58 28+30 3/50(60) 163.5 43.80 3.73 182.5 43.60 4.19 door unit capac verter 4 C 4 2700+27000 0+1900)×860× 0+1965)×925× 66 2.23 3.30 470+470 485+485	60 30+30 170.0 45.70 3.72 190.0 46.10 4.12 iity 4 4	62 30+32 175.0 47.50 3.68 195.0 47.20 4.13	64 32+32 180.0 49.30 3.65 200.0 48.30 4.14
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimensior Packed dimensi Sound press Pipe connections Net we	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate as (W*D*H) sure level Liquid pipe Gas pipe eight	kW kW / kW / kW / kW / / m³/h mm dB(A) mm kg kg	50 24+26 142.0 37.87 3.75 156.5 36.61 4.27 4 25800+27000 (1500+1900) ×860×1690 (1562+1965) ×925×1870 65	52 26+26 147.0 38.54 3.81 163.0 38.02 4.29 4	54 26+28 152.0 40.22 3.78 169.0 39.56 4.27 50 4	56 28+28 380-415/ 157.0 41.90 3.75 175.0 41.10 4.26 %-130% of oute DC In 4 (190 (196 66	58 28+30 3/50(60) 163.5 43.80 3.73 182.5 43.60 4.19 door unit capac verter 4 C 4 2700+27000 0+1900)×860× 0+1965)×925× 66 2.23 3.30 470+470 485+485	60 30+30 170.0 45.70 3.72 190.0 46.10 4.12 iity 4 4 1690 1870 66	62 30+32 175.0 47.50 3.68 195.0 47.20 4.13	64 32+32 180.0 49.30 3.65 200.0 48.30 4.14
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimensior Packed dimensi Sound press Pipe connections Net we Gross w	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate as (W*D*H) sure level Liquid pipe Gas pipe eight rype	kW kW / kW kW / kW / kW / kW / kW / kW	50 24+26 142.0 37.87 3.75 156.5 36.61 4.27 4 25800+27000 (1500+1900) ×860×1690 (1562+1965) ×925×1870 65 380+460 395+475	52 26+26 147.0 38.54 3.81 163.0 38.02 4.29 4	54 26+28 152.0 40.22 3.78 169.0 39.56 4.27 50 4 4 4 4 45 460+470 475+485	56 28+28 380-415/ 157.0 41.90 3.75 175.0 41.10 4.26 %-130% of outo DC In 4 (190 (196 66	58 28+30 3/50(60) 163.5 43.80 3.73 182.5 43.60 4.19 door unit capac verter 4 C 4 2700+27000 0+1900)×860× 5+1965)×925× 66 2.23 .30 470+470 485+485	60 30+30 170.0 45.70 3.72 190.0 46.10 4.12 ity 4 1690 1870 66 470+470 485+485	62 30+32 175.0 47.50 3.68 195.0 47.20 4.13 4 4 4	64 32+32 180.0 49.30 3.65 200.0 48.30 4.14 4 4 4 4 4 4 485+485
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimensior Packed dimensi Sound press Pipe connections Net we Gross w Refrigerant	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate us (W*D*H) sure level Liquid pipe Gas pipe ight rype Factory charge	kW kW / kW / kW / kW / / / / / / / / m³/h mm dB(A) mm kg kg / kg	50 24+26 142.0 37.87 3.75 156.5 36.61 4.27 4 25800+27000 (1500+1900) ×860×1690 (1562+1965) ×925×1870 65 380+460 395+475	52 26+26 147.0 38.54 3.81 163.0 38.02 4.29 4	54 26+28 152.0 40.22 3.78 169.0 39.56 4.27 50 4 4 4 4 45 460+470 475+485	56 28+28 380-415/ 157.0 41.90 3.75 175.0 41.10 4.26 %-130% of outr DC In 4	58 28+30 3/50(60) 163.5 43.80 3.73 182.5 43.60 4.19 door unit capac verter 4 C 4 2700+27000 0+1900)×860× 5+1965)×925× 66 2.23 .30 470+470 485+485	60 30+30 170.0 45.70 3.72 190.0 46.10 4.12 ity 4 1690 1870 66 470+470 485+485	62 30+32 175.0 47.50 3.68 195.0 47.20 4.13 4 4 4	64 32+32 180.0 49.30 3.65 200.0 48.30 4.14 4 4 4 4 4 4 485+485
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimensior Packed dimensi Sound press Pipe connections Net we Gross w Refrigerant Operating	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate us (W*D*H) sure level Liquid pipe Gas pipe eight Type Factory charge Cooling	kW kW / kW / kW / kW / kW / / kW / / kW / / / /	50 24+26 142.0 37.87 3.75 156.5 36.61 4.27 4 25800+27000 (1500+1900) ×860×1690 (1562+1965) ×925×1870 65 380+460 395+475	52 26+26 147.0 38.54 3.81 163.0 38.02 4.29 4	54 26+28 152.0 40.22 3.78 169.0 39.56 4.27 50 4 4 4 4 45 460+470 475+485	56 28+28 380-415/ 157.0 41.90 3.75 175.0 41.10 4.26 %-130% of outr DC In 4	58 28+30 3/50(60) 163.5 43.80 3.73 182.5 43.60 4.19 door unit capac verter 4 C 4 2700+27000 00+1900)×860× 65+1965)×925× 66 2.2330 470+470 485+485 10A 22+22	60 30+30 170.0 45.70 3.72 190.0 46.10 4.12 ity 4 1690 1870 66 470+470 485+485	62 30+32 175.0 47.50 3.68 195.0 47.20 4.13 4 4 4	64 32+32 180.0 49.30 3.65 200.0 48.30 4.14 4 4 4 4 4 4 485+485
Comb Power s *1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airflow Net dimensior Packed dimensi Sound press Pipe connections Net we Gross w Refrigerant Operating temperature range *3 Maximum fuse	HP pination type upply Capacity Power input EER Capacity Power input COP Total capacity Type Quantity Type Quantity rate as (W*D*H) sure level Liquid pipe Gas pipe eight Type Factory charge Cooling Heating	kW kW // kW // kW // kW // kW // kW // // m³/h mm dB(A) mm mm kg kg // kg °C °C	50 24+26 142.0 37.87 3.75 156.5 36.61 4.27 4 25800+27000 (1500+1900) ×860×1690 (1562+1965) ×925×1870 65 380+460 395+475	52 26+26 147.0 38.54 3.81 163.0 38.02 4.29 4 4 4 4 1 4 1 85 4 18+18	54 26+28 152.0 40.22 3.78 169.0 39.56 4.27 50 4 4 4 4 18+22	56 28+28 380-415/ 157.0 41.90 3.75 175.0 41.10 4.26 %-130% of outo DC In 4 (190 (196 66 φ22 φ41 470+470 485+485 R44 22+22 -5~ -30	58 28+30 3/50(60) 163.5 43.80 3.73 182.5 43.60 4.19 door unit capace verter 4 C 4 2700+27000 0+1900)×860× 05+1965)×925× 66 2.23 .30 470+470 485+485 10A 22+22 -56 ~26	60 30+30 170.0 45.70 3.72 190.0 46.10 4.12 iity 4 1690 1870 66 470+470 485+485	62 30+32 175.0 47.50 3.68 195.0 47.20 4.13 4 4 4 4 4 20 4.13	64 32+32 180.0 49.30 3.65 200.0 48.30 4.14 4 4 4 4 4 24 4 22+22

- 1. The nominal cooling capacity is measured under the following conditions: indoor temperature of 27.0 °C DB/19.0 °C WB; outdoor temperature of 35.0 °C DB; equivalent refrigerant piping length 10m with zero level difference.
- 2. The nominal heating capacity is measured under the following conditions: indoor temperature of 20.0 °C DB; outdoor temperature of 7.0 °C DB/6.0 °C WB; equivalent refrigerant piping length 10m with zero level difference.
- 3. Fuse or circuit breaker is selected based on MFA. Electrical wiring is selected based on MCA.

	Model			TIMS660DXA	TIMS	680DXA	TIMS700DXA	TIMS720D	XA	TIMS740D>	<Α .		
	HP			66		68	70	72		74			
(Combination	n type		32+34	34	4+34	22+24+24	24+24+24	1	24+24+26	3		
	ower supply		V/N/ Hz				380-415	5/3/50 (60)					
		Capacity	kW	185.2	1	90.4	198.5	205.5		210.5			
*1 Coo	olina	Power input	_	50.40		1.50	55.07	55.80		56.47			
1 000	,g	EER	/	3.67		3.70	3.60	3.68		3.73			
		Capacity	kW	206.0		12.0	219.0	225.0		231.5			
*2 Hea	tina	Power input		49.75		1.20	52.50	52.80		54.21			
21164	iung	COP	/	49.75		1.14	4.17	4.26		4.27			
		Total		4.14		+. 14	4.17	4.20		4.21			
Connectable	indoor unit	capacity	kW				50%-130% of ou	tdoor unit capad	city				
Compre	ssors	Туре	1					nverter					
		Quantity	/	4 4 6 6					6				
Fan mo	ntore	Туре	/	DC									
	7.013	Quantity	1	4 4 6 6					6				
	Airflow rate		m³/h	2700+	27000		25800+25	800+25800		25800+25800+2	27000		
Net dim	nensions (W	*D*H)	mm	m (1900+1900)×860×1690 (1500+1500+1500)×860×1690 (1					(150	0+1500+1900)×	<860×1690		
Packed d	imensions (W*D*H)	mm	(1965+1965)×925×18	870	(1562+1562+1	562)×925×1870	(156	(1562+1562+1965)×925×18			
Sound	d pressure le	evel	dB(A)	66		66	66	66		66			
Pipe conn	octions	Liquid pipe	mm				φ2	2.23					
Fipe Collin	ECHOIS	Gas pipe	mm	φ41	.30				φ44.50				
-	Net weight		kg	470+475	47	5+475	380+380+380	380+380+3	80	380+380+4	60		
G	ross weight		kg	485+490	490	0+490	395+395+395	395+395+3	95	395+395+4	75		
		Туре	/				R4	110A					
Refrige	erant	Factory	1	00.00	0/	0.00	40.40.40	40.40.40	,	40.40.40			
		charge	kg	22+23	2.	3+23	16+16+16	16+16+16	°	16+16+18	5		
Operating ter	mperature	Cooling	°C				-5	~56					
rang	je .	Heating	°C				-30)∼26					
* 3 Maximum f	fuse current	MFA	Α	170.0	1	80.0	189.0 189.0			206.0			
* 3 Minimum I	line current	MCA	Α	146.1	1-	48.2	152.9	158.1		171.4			
						1	1			1	T		
	Model			TIMS760DXA		TIMS780DXA	TIMS800DXA	TIMS820DXA	TIMS840DXA	TIMS860DXA	TIMS880DXA		
	HP			76 78 80 82				82	84	86	88		
	ombination t			76 24+26+26		78 26+26+26	26+26+28	82 26+26+30					
	ombination t er supply	V/N/I		24+26+26		26+26+26	26+26+28 380-415/3	82 26+26+30 5/50 (60)	84 26+26+32	86 28+28+30	88 28+30+30		
Powe	ombination t er supply Capac	V/N/lity kW	/	24+26+26 215.5		26+26+26	26+26+28 380-415/3 225.5	82 26+26+30 5/50 (60) 232.0	84 26+26+32 237.0	86 28+28+30 242.0	88 28+30+30 248.5		
	ombination t er supply Capac Power ir	V/N/lity kW	/	24+26+26 215.5 57.14		26+26+26 220.5 57.81	26+26+28 380-415/3 225.5 59.49	82 26+26+30 /50 (60) 232.0 61.39	84 26+26+32 237.0 63.19	86 28+28+30 242.0 64.75	88 28+30+30 248.5 66.65		
Powe	er supply Capac Power ir EER	V/N/lity kW	1	24+26+26 215.5 57.14 3.77		220.5 57.81 3.81	26+26+28 380-415/3 225.5 59.49 3.79	82 26+26+30 /50 (60) 232.0 61.39 3.78	84 26+26+32 237.0 63.19 3.75	86 28+28+30 242.0 64.75 3.74	88 28+30+30 248.5 66.65 3.73		
*1 Cooling	er supply Capac Power ir EER Capac	V/N/lity kWnput kW	1	24+26+26 215.5 57.14 3.77 238.0		26+26+26 220.5 57.81 3.81 244.5	26+26+28 380-415/3 225.5 59.49 3.79 250.5	82 26+26+30 /50 (60) 232.0 61.39 3.78 258.0	84 26+26+32 237.0 63.19 3.75 263.0	86 28+28+30 242.0 64.75 3.74 270.0	88 28+30+30 248.5 66.65 3.73 277.5		
Powe	er supply Capac Power ir EER Capac	V/N/I ity kW nput kW ity kW ity kW nput kW	1	24+26+26 215.5 57.14 3.77 238.0 55.62		26+26+26 220.5 57.81 3.81 244.5 57.03	26+26+28 380-415/3 225.5 59.49 3.79 250.5 58.57	82 26+26+30 /50 (60) 232.0 61.39 3.78 258.0 61.07	84 26+26+32 237.0 63.19 3.75 263.0 62.17	86 28+28+30 242.0 64.75 3.74 270.0 64.15	88 28+30+30 248.5 66.65 3.73 277.5 66.65		
*1 Cooling *2 Heating	er supply Capac Power ir EER Capac	V/N/I ity kW nput kW ity kW ity kW nput kW	1	24+26+26 215.5 57.14 3.77 238.0		26+26+26 220.5 57.81 3.81 244.5	26+26+28 380-415/3 225.5 59.49 3.79 250.5	82 26+26+30 /50 (60) 232.0 61.39 3.78 258.0	84 26+26+32 237.0 63.19 3.75 263.0	86 28+28+30 242.0 64.75 3.74 270.0	88 28+30+30 248.5 66.65 3.73 277.5		
*1 Cooling	er supply Capac Power ir EER Capac	V/N// ity kW nput kW / ity kW hput kW	1	24+26+26 215.5 57.14 3.77 238.0 55.62		220.5 57.81 3.81 244.5 57.03 4.29	26+26+28 380-415/3 225.5 59.49 3.79 250.5 58.57	82 26+26+30 /50 (60) 232.0 61.39 3.78 258.0 61.07 4.22	84 26+26+32 237.0 63.19 3.75 263.0 62.17 4.23	86 28+28+30 242.0 64.75 3.74 270.0 64.15	88 28+30+30 248.5 66.65 3.73 277.5 66.65		
*1 Cooling *2 Heating Connectable indoor unit	er supply Capac Power ir EER Capac Power ir COP	V/N// ity kW	1	24+26+26 215.5 57.14 3.77 238.0 55.62		220.5 57.81 3.81 244.5 57.03 4.29	26+26+28 380-415/3 225.5 59.49 3.79 250.5 58.57 4.28	82 26+26+30 /50 (60) 232.0 61.39 3.78 258.0 61.07 4.22	84 26+26+32 237.0 63.19 3.75 263.0 62.17 4.23	86 28+28+30 242.0 64.75 3.74 270.0 64.15	88 28+30+30 248.5 66.65 3.73 277.5 66.65		
*1 Cooling *2 Heating Connectable	combination t er supply Capac Power ir EER Capac Power ir COP Total cap	V/N// ity kW nput kW ity kW ity kW nput kW nput kW nput kW nput kW	1	24+26+26 215.5 57.14 3.77 238.0 55.62		220.5 57.81 3.81 244.5 57.03 4.29	26+26+28 380-415/3 225.5 59.49 3.79 250.5 58.57 4.28 3%-130% of outd	82 26+26+30 /50 (60) 232.0 61.39 3.78 258.0 61.07 4.22	84 26+26+32 237.0 63.19 3.75 263.0 62.17 4.23	86 28+28+30 242.0 64.75 3.74 270.0 64.15	88 28+30+30 248.5 66.65 3.73 277.5 66.65		
*1 Cooling *2 Heating Connectable indoor unit Compressors	ombination ter supply Capac Power ir EER Capac Power ir COP Total cap	V/N// ity kW ity / ity kW ity /	1	24+26+26 215.5 57.14 3.77 238.0 55.62 4.28		220.5 57.81 3.81 244.5 57.03 4.29	26+26+28 380-415/3 225.5 59.49 3.79 250.5 58.57 4.28 0%-130% of outd	82 26+26+30 //50 (60) 232.0 61.39 3.78 258.0 61.07 4.22 coor unit capacity	84 26+26+32 237.0 63.19 3.75 263.0 62.17 4.23	86 28+28+30 242.0 64.75 3.74 270.0 64.15 4.21	88 28+30+30 248.5 66.65 3.73 277.5 66.65 4.16		
*1 Cooling *2 Heating Connectable indoor unit	ombination ter supply Capace Power ir EER Capace Power ir COP Total cap Quanti	V/N// ity kW ity kW ity kW / ity kW / ity kW / acity kW / acity kW / / acity kW / / / / / / / / / / / / / / / / / / /		24+26+26 215.5 57.14 3.77 238.0 55.62 4.28		220.5 57.81 3.81 244.5 57.03 4.29	26+26+28 380-415/3 225.5 59.49 3.79 250.5 58.57 4.28 0%-130% of outd	82 26+26+30 //50 (60) 232.0 61.39 3.78 258.0 61.07 4.22 coor unit capacity	84 26+26+32 237.0 63.19 3.75 263.0 62.17 4.23	86 28+28+30 242.0 64.75 3.74 270.0 64.15 4.21	88 28+30+30 248.5 66.65 3.73 277.5 66.65 4.16		
*1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors	ombination ter supply Capac Power ir EER Capac Power ir COP Total cap Quanti	V/N// ity kW ity kW ity kW / ity kW / ity kW / acity kW / acity kW / / acity kW / / / / / / / / / / / / / / / / / / /		24+26+26 215.5 57.14 3.77 238.0 55.62 4.28	100	220.5 57.81 3.81 244.5 57.03 4.29	26+26+28 380-415/3 225.5 59.49 3.79 250.5 58.57 4.28 0%-130% of outd DC Inv 6	82 26+26+30 //50 (60) 232.0 61.39 3.78 258.0 61.07 4.22 oor unit capacity	84 26+26+32 237.0 63.19 3.75 263.0 62.17 4.23	86 28+28+30 242.0 64.75 3.74 270.0 64.15 4.21	88 28+30+30 248.5 66.65 3.73 277.5 66.65 4.16		
*1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors	ombination ter supply Capace Power ir EER Capace Power ir COP Total cap Type Quanti	V/N// ity kW ity kW ity kW / ity kW / ity kW / acity kW / acity kW / ity / ity / ity / m³/	l l	24+26+26 215.5 57.14 3.77 238.0 55.62 4.28		220.5 57.81 3.81 244.5 57.03 4.29	26+26+28 380-415/3 225.5 59.49 3.79 250.5 58.57 4.28 0%-130% of outd DC Inv 6	82 26+26+30 /50 (60) 232.0 61.39 3.78 258.0 61.07 4.22 oor unit capacity erter 6 2 6 27000+270	84 26+26+32 237.0 63.19 3.75 263.0 62.17 4.23	86 28+28+30 242.0 64.75 3.74 270.0 64.15 4.21	88 28+30+30 248.5 66.65 3.73 277.5 66.65 4.16		
*1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors	combination to the supply capacity capa	V/N// ity kW ity / acity kW ity / ma/ ity / ma/ ity / mn/	/ / / / / / / / / / / / / / / / / / /	24+26+26 215.5 57.14 3.77 238.0 55.62 4.28 6 6 25800+27000+270	0×1690	220.5 57.81 3.81 244.5 57.03 4.29	26+26+28 380-415/3 225.5 59.49 3.79 250.5 58.57 4.28 0%-130% of outd DC Inv 6	82 26+26+30 /50 (60) 232.0 61.39 3.78 258.0 61.07 4.22 oor unit capacity erter 6 27000+270 (1900+1900+15	84 26+26+32 237.0 63.19 3.75 263.0 62.17 4.23	86 28+28+30 242.0 64.75 3.74 270.0 64.15 4.21	88 28+30+30 248.5 66.65 3.73 277.5 66.65 4.16		
*1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airfl Net dimen- Packed dimen	combination to the supply capacity capa	V/N// ity kW ity / acity kW ity / ma/ may ity / may may ity / may	h h n (1	24+26+26 215.5 57.14 3.77 238.0 55.62 4.28 6 6 25800+27000+270 500+1900+1900)×866	0×1690	220.5 57.81 3.81 244.5 57.03 4.29	26+26+28 380-415/3 225.5 59.49 3.79 250.5 58.57 4.28 0%-130% of outd DC Inv 6	82 26+26+30 /50 (60) 232.0 61.39 3.78 258.0 61.07 4.22 oor unit capacity erter 6 27000+270 (1900+1900+15	84 26+26+32 237.0 63.19 3.75 263.0 62.17 4.23 y 6 6 000+27000 900)×860×1690	86 28+28+30 242.0 64.75 3.74 270.0 64.15 4.21	88 28+30+30 248.5 66.65 3.73 277.5 66.65 4.16		
*1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airfl Net dimen- Packed dimensions Sound pi	combination to the resupply Capace Power in EER Capace Power in COP Total cap Type Quanti Type Quanti low rate sions (W*D* ressure leve	V/N// ity kW ity / acity kW ity / m³/ *H) mn D*H) mn el dB(/	h h (1)	24+26+26 215.5 57.14 3.77 238.0 55.62 4.28 6 6 25800+27000+270 500+1900+1900)×86(562+1965)×92(0×1690	220.5 57.81 3.81 244.5 57.03 4.29 50	26+26+28 380-415/3 225.5 59.49 3.79 250.5 58.57 4.28 0%-130% of outd DC Inv 6 DC	82 26+26+30 /50 (60) 232.0 61.39 3.78 258.0 61.07 4.22 oor unit capacity erter 6 27000+270 (1900+1900+19 (1965+1965+1965+1965+1965+1965+1965+1965+	84 26+26+32 237.0 63.19 3.75 263.0 62.17 4.23 y 6 6 000+27000 900)×860×1690 965)×925×1870	86 28+28+30 242.0 64.75 3.74 270.0 64.15 4.21	88 28+30+30 248.5 66.65 3.73 277.5 66.65 4.16		
*1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airfl Net dimen- Packed dimen	combination to the supply Capace Power in Capace Power in COP Total cap Type Quanti Type Quanti Cow rate Sions (W*D' ensions (W*D' ensions (W*ressure leve Liquid p	V/N// ity kW ity / acity kW ity / ity / ity / ity / ity / ity / m³/ **H) mn D*H) mn el dB(/	h (1 A)	24+26+26 215.5 57.14 3.77 238.0 55.62 4.28 6 6 25800+27000+270 500+1900+1900)×86(562+1965)×92(0×1690	220.5 57.81 3.81 244.5 57.03 4.29 50	26+26+28 380-415/3 225.5 59.49 3.79 250.5 58.57 4.28 0%-130% of outd DC Inv 6 DC 6	82 26+26+30 /50 (60) 232.0 61.39 3.78 258.0 61.07 4.22 oor unit capacity erter 6 27000+27((1900+1900+18) (1965+1965+18) 66	84 26+26+32 237.0 63.19 3.75 263.0 62.17 4.23 y 6 6 000+27000 900)×860×1690 965)×925×1870	86 28+28+30 242.0 64.75 3.74 270.0 64.15 4.21	88 28+30+30 248.5 66.65 3.73 277.5 66.65 4.16		
*2 Heating *2 Heating Connectable indoor unit Compressors Fan motors Airfl Net dimen: Packed dimen: Sound pripe connections	combination to the resupply Capace Power in EER Capace Power in COP Total cap Type Quanti Type Quanti low rate sions (W*D* ressure leve	V/N// ity kW ity / acity kW ity / ity / ity / ity / ity / m³/ **H) mn D*H) mn el dB(/ ippe mn	h (1 A)	24+26+26 215.5 57.14 3.77 238.0 55.62 4.28 6 6 25800+27000+270 500+1900+1900)×86(562+1965)×92(0×1690	220.5 57.81 3.81 244.5 57.03 4.29 50	26+26+28 380-415/3 225.5 59.49 3.79 250.5 58.57 4.28 0%-130% of outd DC Inv 6 DC 6	82 26+26+30 /50 (60) 232.0 61.39 3.78 258.0 61.07 4.22 oor unit capacity erter 6 27000+27((1900+1900+18) (1965+1965+18) 66	84 26+26+32 237.0 63.19 3.75 263.0 62.17 4.23 y 6 6 000+27000 900)×860×1690 965)×925×1870 66	86 28+28+30 242.0 64.75 3.74 270.0 64.15 4.21	88 28+30+30 248.5 66.65 3.73 277.5 66.65 4.16		
*1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airfl Net dimen: Packed dime: Sound pi Pipe connections Net	combination to the supply Capace Power in Capace Power in COP Total cap Type Quantition Type Quantition (W*D' ensions (W*D' ensions (W*Tessure leve Liquid p Gas pi	V/N// ity kW ity / acity kW ity / ity / ity / ity / ity / ity / m³/ **H) mn D*H) mn el dB(/	// / / / / / / / / / / / / / / / / / /	24+26+26 215.5 57.14 3.77 238.0 55.62 4.28 6 6 25800+27000+270 500+1900+1900)×86i 562+1965+1965)×928 66	0×1690	220.5 57.81 3.81 244.5 57.03 4.29 50 6	26+26+28 380-415/3 225.5 59.49 3.79 250.5 58.57 4.28 0%-130% of outd DC Inv 6 DC 6	82 26+26+30 /50 (60) 232.0 61.39 3.78 258.0 61.07 4.22 oor unit capacity erter 6 27000+270 (1900+1900+18) (1965+1965+19 66 23 50	84 26+26+32 237.0 63.19 3.75 263.0 62.17 4.23 y 6 6 000+27000 000)×860×1690 065)×925×1870 66 460+460+470	86 28+28+30 64.75 3.74 270.0 64.15 4.21 6	88 28+30+30 248.5 66.65 3.73 277.5 66.65 4.16		
*1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airfl Net dimensed	combination to the supply capacing power in the supply capacing power in the supple capacing power in t	V/N// ity kW ity / acity kW ity / i	// / / / / / / / / / / / / / / / / / /	24+26+26 215.5 57.14 3.77 238.0 55.62 4.28 6 6 25800+27000+270 500+1900+1900)×86(562+1965+1965)×92(66 380+460+460	0×1690	220.5 57.81 3.81 244.5 57.03 4.29 50 6	26+26+28 380-415/3 225.5 59.49 3.79 250.5 58.57 4.28 0%-130% of outd DC Inv 6 DC 6	82 26+26+30 //50 (60) 232.0 61.39 3.78 258.0 61.07 4.22 coor unit capacity enter 6 27000+270 (1900+1900+18 (1965+1965+18 66 23 50 460+460+470 475+475+485	84 26+26+32 237.0 63.19 3.75 263.0 62.17 4.23 y 6 6 000+27000 900)×860×1690 965)×925×1870 66 460+460+470	86 28+28+30 242.0 64.75 3.74 270.0 64.15 4.21 6	88 28+30+30 248.5 66.65 3.73 277.5 66.65 4.16 6		
*1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airfl Net dimen: Packed dime: Sound pi Pipe connections Net	combination to the supply capacing power in the supply capacing power in the supple capacing power in t	V/N// ity kW ity / acity kW ity / i	h h (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	24+26+26 215.5 57.14 3.77 238.0 55.62 4.28 6 6 25800+27000+270 500+1900+1900)×86i 562+1965+1965)×92i 66 380+460+460 395+475+475	0×1690	220.5 57.81 3.81 244.5 57.03 4.29 50 6 6 460+460+460 475+475+475	26+26+28 380-415/3 225.5 59.49 3.79 250.5 58.57 4.28 0%-130% of outd DC Inv 6 DC of 6 404-460-4470 475-4475-4485	82 26+26+30 /50 (60) 232.0 61.39 3.78 258.0 61.07 4.22 oor unit capacity erter 6 27000+270 (1900+1900+18 (1965+1965+18 66 23 50 460+460+470 475+475+485	84 26+26+32 237.0 63.19 3.75 263.0 62.17 4.23 y 6 6 000+27000 000)×860×1690 065)×925×1870 66 460+460+470 475+475+485	86 28+28+30 242.0 64.75 3.74 270.0 64.15 4.21 6 6	88 28+30+30 248.5 66.65 3.73 277.5 66.65 4.16 6 6		
*1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airfl Net dimen- Packed dime Sound pr Pipe connections Net Gros Refrigerant	combination to the supply capace Power in Capace Power in COP Total cap Quanti Type Quanti Coversions (W*D* censions (W*D* cen	V/N// ity kW ity / acity kW ity / i	// / / / / / / / / / / / / / / / / / /	24+26+26 215.5 57.14 3.77 238.0 55.62 4.28 6 6 25800+27000+270 500+1900+1900)×86(562+1965+1965)×92(66 380+460+460	0×1690	220.5 57.81 3.81 244.5 57.03 4.29 50 6	26+26+28 380-415/3 225.5 59.49 3.79 250.5 58.57 4.28 0%-130% of outd DC Inv 6 DC outd 06 06 022. 044. 460+460+470 475+475+485	82 26+26+30 /50 (60) 232.0 61.39 3.78 258.0 61.07 4.22 oor unit capacity erter 6 27000+27((1900+1900+19((1965+1965+195) 66 23 50 460+460+470 475+475+485 0A 18+18+22	84 26+26+32 237.0 63.19 3.75 263.0 62.17 4.23 y 6 6 000+27000 900)×860×1690 965)×925×1870 66 460+460+470	86 28+28+30 242.0 64.75 3.74 270.0 64.15 4.21 6	88 28+30+30 248.5 66.65 3.73 277.5 66.65 4.16 6		
*1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airfl Net dimensed	ombination ter supply Capace Power ir EER Capace Power ir COP Total cap Quanti Type Quanti low rate esions (W*D' ensions (W* ressure leve Liquid p Gas pi t weight ss weight Type Factory cl	V/N// ity kW ity / acity kW ity / i	/ / / / / / / / / / / / / / / / / / /	24+26+26 215.5 57.14 3.77 238.0 55.62 4.28 6 6 25800+27000+270 500+1900+1900)×86i 562+1965+1965)×92i 66 380+460+460 395+475+475	0×1690	220.5 57.81 3.81 244.5 57.03 4.29 50 6 6 460+460+460 475+475+475	26+26+28 380-415/3 225.5 59.49 3.79 250.5 58.57 4.28 0%-130% of outd DC Inv 6 DC 6 6 460+460+470 475+475+485 R411 18+18+22 -5~	82 26+26+30 /50 (60) 232.0 61.39 3.78 258.0 61.07 4.22 coor unit capacity erter 6 27000+270 (1900+1900+18 (1965+1965+18 66 23 50 460+460+470 475+475+485 0A 18+18+22 56	84 26+26+32 237.0 63.19 3.75 263.0 62.17 4.23 y 6 6 000+27000 000)×860×1690 065)×925×1870 66 460+460+470 475+475+485	86 28+28+30 242.0 64.75 3.74 270.0 64.15 4.21 6 6	88 28+30+30 248.5 66.65 3.73 277.5 66.65 4.16 6 6		
*1 Cooling *2 Heating Connectable indoor unit Compressors Fan motors Airfl Net dimen. Packed dime Sound p. Pipe connections Net Gros Refrigerant Operating	combination to the supply capace Power in Capace Power in COP Total cap Quanti Type Quanti Coversions (W*D* censions (W*D* cen	V/N// ity kW ity / acity kW ity / i	/ / / / / / / / / / / / / / / / / / /	24+26+26 215.5 57.14 3.77 238.0 55.62 4.28 6 6 25800+27000+270 500+1900+1900)×86i 562+1965+1965)×92i 66 380+460+460 395+475+475	0×1690	220.5 57.81 3.81 244.5 57.03 4.29 50 6 6 460+460+460 475+475+475	26+26+28 380-415/3 225.5 59.49 3.79 250.5 58.57 4.28)%-130% of outd DC Inv 6 DC of 6 460+460+470 475+475+485 R411 18+18+22	82 26+26+30 /50 (60) 232.0 61.39 3.78 258.0 61.07 4.22 coor unit capacity erter 6 27000+270 (1900+1900+18 (1965+1965+18 66 23 50 460+460+470 475+475+485 0A 18+18+22 56	84 26+26+32 237.0 63.19 3.75 263.0 62.17 4.23 y 6 6 000+27000 000)×860×1690 065)×925×1870 66 460+460+470 475+475+485	86 28+28+30 242.0 64.75 3.74 270.0 64.15 4.21 6 6	88 28+30+30 248.5 66.65 3.73 277.5 66.65 4.16 6 6		
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- 1. The nominal cooling capacity is measured under the following conditions: indoor temperature of 27.0 °C DB/19.0 °C WB; outdoor temperature of 35.0 °C DB; equivalent refrigerant piping length 10m with zero level difference.
- 2. The nominal heating capacity is measured under the following conditions: indoor temperature of 20.0 °C DB; outdoor temperature of 7.0 °C DB/6.0 °C WB; equivalent refrigerant piping length 10m with zero level difference.
- 3. Fuse or circuit breaker is selected based on MFA. Electrical wiring is selected based on MCA.

	Model		TIMS900DXA	TIMS920DXA	TIMS940DXA	TIMS960DXA	TIMS980DXA	TIMS1000DXA	TIMS1020DXA
	HP		90	92	94	96	98	100	102
Comb	ination type	9	30+30+30	30+30+32	30+32+32	32+32+32	32+32+34	32+34+34	34+34+34
Power si	71	V/N/Hz				380-415/3/50 (60)			
	Capacity	kW	255.0	260.0	265.0	270.0	275.2	280.4	285.6
*1 Cooling	Power input	kW	68.55	70.35	72.15	73.95	75.05	76.15	77.25
	EER	1	3.72	3.70	3.67	3.65	3.67	3.68	3.70
	Capacity	kW	285.0	290.0	295.0	300.0	306.0	312.0	318.0
*2 Heating	Power input	kW	69.15	70.25	71.35	72.45	73.90	75.35	76.80
	COP	1	4.12	4.13	4.13	4.14	4.14	4.14	4.14
Connectable indoor unit	Total capacity	kW			50%-13	0% of outdoor unit	capacity		
C	Туре	1				DC Inverter			
Compressors	Quantity	1	6	6	6	6	6	6	6
Fan motors	Type	1				DC			
	Quantity	1	6	6	6	6	6	6	6
Airflow		m³/h			2	7000+27000+2700	0		
Net dimension	,	mm			(1900	+1900+1900)×860>	1690		
Packed dim (W*D*		mm			(1965	+1965+1965)×925>	1870		
Sound press	ure level	dB(A)	66	66	66	66	66	66	66
Pipe connections	Liquid pipe	mm				φ22.23			
Connections	Gas pipe	mm				φ44.50			
Net we	ight	kg	470+470+470	470+470+470	470+470+470	470+470+470	470+470+475	470+475+475	475+475+475
Gross w		kg	485+485+485	485+485+485	485+485+485	485+485+485	485+485+490	485+490+490	490+490+490
	Туре	/							
Refrigerant	Factory charge	kg	22+22+22	22+22+22	22+22+22	22+22+22	22+22+23	22+23+23	23+23+23
Operating	Cooling	°C				-5∼56			
temperature range	Heating	°C				-30∼26			
* 3 Maximum fuse current	MFA	Α	240.0	240.0	240.0	240.0	250.0	260.0	270.0
* 3 Minimum line current	MCA	А	210.3	212.2	214.1	216.0	218.1	220.2	222.3

^{1.} The nominal cooling capacity is measured under the following conditions: indoor temperature of 27.0 °C DB/19.0 °C WB; outdoor temperature of 35.0 °C DB; equivalent refrigerant piping length 10m with zero level difference.

^{2.} The nominal heating capacity is measured under the following conditions: indoor temperature of 20.0 °C DB; outdoor temperature of 7.0 °C DB/6.0 °C WB; equivalent refrigerant piping length 10m with zero level difference.

^{3.} Fuse or circuit breaker is selected based on MFA. Electrical wiring is selected based on MCA.

Independent Full Inverter ODUs

Mod	lel		TIMS080DST	TIMS100DST	TIMS120DST	TIMS140DST	TIMS160DST	TIMS180DST	TIMS200DST	TIMS220DST
HF	0		8	10	12	14	16	18	20	22
Combinat	ion type		-	-	-	-	-	-	-	-
Power supp	ly	V/N/Hz				380-415	/3/50 (60)			
	Capacity	kW	25.2	28.5	33.5	40.0	45.0	50.4	56	61.5
*1 Cooling	Power input	kW	5.45	6.75	8.40	10.25	12.10	13.50	15.77	17.75
	EER	1	4.62	4.22	3.99	3.90	3.72	3.73	3.55	3.46
	Capacity	kW	27.0	31.5	37.5	45.0	50.0	56.0	63.0	69.0
*2 Heating	Power input	kW	5.41	6.60	8.30	10.28	12.15	13.60	15.50	16.99
	COP	1	4.99	4.77	4.52	4.38	4.12	4.12	4.06	4.06
Connectable indoor unit	Total capacity	kW			50	%-130% of ou	door unit capa	city		
C	Туре	1				DC Ir	verter			
Compressors	Quantity	1	1	1	1	1	1	1	1	1
Fan motors	Туре	1		DC						
Fan motors	Quantity	1	1	1	1	1	1	1	1	1
Airflow rate		m³/h		12000			13980		25	800
Net dimensions (V	V*D*H)	mm		930×860×1690)	-	240×860×1690)	1500×8	60×1690
Packed dimensions	(W*D*H)	mm		995×925×1870)	1	305×925×1870)	1562×9	25×1870
Sound pressure	level	dB(A)	56	56	57	59	60	61	62	62
Dina connections	Liquid pipe	mm	φ9	.52	φ12.70		φ12.70		φ1	5.88
Pipe connections	Gas pipe	mm	φ22	2.23	φ25.40		φ28.58		φ28	3.58
Net weight		kg	225	225	225	290	290	290	345	350
Gross weigh	nt	kg	240	240	240	305	305	305	360	365
Refrigerant	Туре	1	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Reingerant	Factory charge	kg	8	8	10	12	12	12	16	16
Operating temperature	, , ,					-5	~56			
range	Heating				-30	~26				
* 3 Maximum fuse current	MFA	Α	20.0	25.0	32.0	40.0	40.0	50.0	50.0	63.0
* 3 Minimum line current	MCA	Α	17.4	21.7	25.8	33.0	35.0	39.1	43.5	47.5

Mod	lel		TIMS220DSA	TIMS240DSA	TIMS260DSA	TIMS280DSA	TIMS300DSA	TIMS320DSA	TIMS340DSA	
HF	•		22	24	26	28	30	32	34	
Combinat	ion type		-	-	-	-	-	-	-	
Power supp	ly	V/N/Hz				380-415/3/50 (60)			
	Capacity	kW	61.5	68.5	73.5	78.5	85.0	90.0	95.2	
*1 Cooling	Power input	kW	17.87	18.60	19.27	20.95	22.85	24.65	25.75	
	EER	1	3.44	3.68	3.81	3.75	3.72	3.65	3.70	
	Capacity	kW	69.0	75.0	81.5	87.5	95.0	100.0	106.0	
*2 Heating	Power input	kW	17.30	17.60	19.01	20.55	23.05	24.15	25.60	
	COP	1	3.99	4.26	4.29	4.26	4.12	4.14	4.14	
Connectable indoor unit	Total capacity	kW			50%-130	% of outdoor unit	capacity			
C	Type	/				DC Inverter				
Compressors	Quantity	1	2	2	2	2	2	2	2	
	Туре	1		DC						
Fan motors	Quantity	1	2	2	2	2	2	2	2	
Airflow rate		m³/h	258	300			27000			
Net dimensions (V	V*D*H)	mm	1500×86	60×1690			1900×860×1690			
Packed dimensions	(W*D*H)	mm	1562×92	25×1870			1965×925×1870			
Sound pressure	level	dB(A)	62	62	62	63	64	64	65	
Dina assessina	Liquid pipe	mm	φ15	5.88		φ19	9.05		φ19.05	
Pipe connections	Gas pipe	mm	φ28	3.58		φ31	1.75		φ34.92	
Net weight		kg	375	375	450	460	460	460	465	
Gross weigh	nt	kg	390	390	465	475	475	475	480	
Defricement	Туре	/	R410A	R410A	R410A	R410A	R410A	R410A	R410A	
Refrigerant	Factory charge	kg	14	14	16	20	20	20	21	
Operating temperature	Cooling	°C				-5∼56				
range	Heating	°C				-30∼26				
* 3 Maximum fuse current	MFA	Α	63.0	63.0	80.0	80.0	80.0	80.0	80.0	
* 3 Minimum line current	MCA	Α	47.5	52.7	66.0	68.0	70.1	72.0	74.0	

^{1.} The nominal cooling capacity is measured under the following conditions: indoor temperature of 27.0 °C DB/19.0 °C WB; outdoor temperature of 35.0 °C DB; equivalent refrigerant piping length 10m with zero level difference.

^{2.} The nominal heating capacity is measured under the following conditions: indoor temperature of 20.0 °C DB; outdoor temperature of 7.0 °C DB/6.0 °C WB; equivalent refrigerant piping length 10m with zero level difference.

^{3.} Fuse or circuit breaker is selected based on MFA. Electrical wiring is selected based on MCA.





Fresh Air Processing Unit 100% fresh air supply



Ventilation Heat recovery ventilator (HRV)



AHU Connection Kit
Connect to TICA DX AHU



Control Systems
Smart control systems



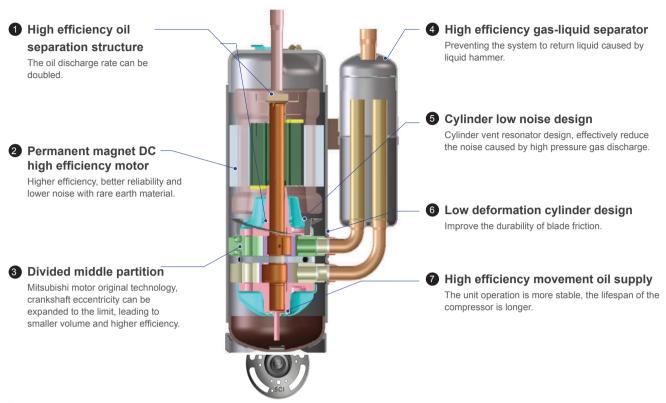
TIMS Extra Series Heat Pump

Optimized design for middle-sized buildings

- ➤ Side-discharge and Top-discharge Options
- ► Twin rotary DC inverter compressor
- ► ESP up to 110Pa (Top-discharge units only)
- ► Two Stage Subcooling
- ► Six Stage Oil Return
- Multi Silent Technologies
- ► Auto Addressing
- Multi Protection
- Anti-Corrosion
- ► Micro-HEX Technology
- ➤ Dust-clean Function
- ▶ Precise detection of refrigerant pressure
- ► Black Box Technology
- ► BMS
- Household-based charging system
- ➤ Intelligent Interlocking for Hotels(Top-discharge units only)

▶ DC inverter compressor

All series units adopt Mitsubishi twin rotary compressor with many Mitsubishi patented technologies.



Wide Capacity Range

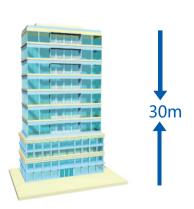
TIMS Extra has two options, side-discharge and top-discharge. For side-discharge type, it has three models, 25.2/28.5/33.5kW. For top-discharge type, it has five models, 25.2/28.5/33.5kW.

Side discharge type	Top discharge type						
25.2/28.5/33.5kW	25.2/28.5/33.5kW	40.0/45.0kW					
STON.	TIMSS	TIMSS CTICA					

▶ Long Piping Capability

Maximum piping (total)	1100m
Maximum equivalenFsingle piping length	240m
Maximum height difference of IDU and ODU	110m
Maximum height difference of IDUs	30m

^{*} Check relevant technical document or consul technicians.



Side Discharge VRF

1	Model		TIMS252CSREA	TIMS285CSREA	TIMS335CSREA		
	HP		8	10	12		
Comb	ination type		-	-			
Power sup	ply	V/N/Hz		380-415/3/50 (60)			
	Capacity	kW	25.2	28.5	33.5		
*1 Cooling	Power input	kW	5.99	7.65	8.25		
	EER	1	4.21	3.73	4.06		
	Capacity	kW	27	31.5	37.5		
*2 Heating	Power input	kW	5.85	7.45	7.95		
	COP	1	4.62	4.23	4.72		
Connectable indoor unit	Total capacity	kW		50%-130% of outdoor unit capacity			
0	Туре	1					
Compressors	Quantity	1	1	1	1		
Fan motors	Туре	1		DC			
Fair motors	Quantity	1	2 2		2		
Airflow ra	te	m³/h	11300				
Net dimensions	(W*D*H)	mm	1100×464×1550				
Packed dimension	ns (W*D*H)	mm	1164×571×1580				
Sound pressur	re level	dB(A)	58	59	60		
Dina connections	Liquid pipe	mm	φ	12.70	φ12.70		
Pipe connections	Gas pipe	mm	φ	22.2	φ25.40		
Net weigl	ht	kg	168	168	168		
Gross wei	ght	kg	175	175	175		
Defriessent	Туре	1	R410A	R410A	R410A		
Refrigerant	Factory charge	kg	7	7	8		
Operating temperature	Cooling	°C		-5∼54			
range	Heating	°C		-23~26			
3 Maximum fuse current	MFA	А	32.0	32.0	32.0		
* 3 Minimum line current	MCA	А	25.2	25.8	26.5		

Note:
1. The nominal cooling capacity is measured under the following conditions: indoor temperature of 27.0°C DB/ 19.0°C WB; outdoor temperature of 35°C DB.
2. The nominal heating capacity is measured under the following conditions: indoor temperature of 20.0°C DB; outdoor temperature of 7°C DB./ 6.0°C WB.
3. Fuse or circuit breaker is selected based on MFA. Electrical wiring is selected based on MCA.

Top Discharge VRF

ı	Model		TIMS252CSRYA	TIMS285CSRYA	TIMS335CSRYA	TIMS400CSRYA	TIMS450CSRYA		
	HP		8	10	12	14	16		
Combi	ination type		-	-	-	-	-		
Power sup	ply	V/N/Hz			380-415/3/50 (60)				
	Capacity	kW	25.2	28.5	33.5	40.0	45.0		
*1 Cooling	Power input	kW	5.55	6.85	8.70	10.40	12.30		
	EER	/	4.54	4.16	3.85	3.85	3.66		
	Capacity	kW	27.0	31.5	37.5	45.0	50.0		
*2 Heating	Power input	kW	5.60	6.70	8.40	10.35	12.20		
	COP	1	4.82	4.70	4.46	4.35	4.10		
Connectable indoor unit	Total capacity	kW		50%-13	80% of outdoor unit	capacity			
0	Туре	1							
Compressors	Quantity	1	1	1	1	1	1		
F	Туре	1							
Fan motors	Quantity	1	1 1 1		1	1	1		
Airflow ra	te	m³/h		12000 13980					
Net dimensions	(W*D*H)	mm		930×860×1690		1240×86	60×1690		
Packed dimension	s (W*D*H)	mm		995×925×1870		1305×925×1870			
Sound pressur	re level	dB(A)	57	57	57	60	61		
Dina connections	Liquid pipe	mm			φ12.70				
Pipe connections	Gas pipe	mm		φ25.40		φ28.58	φ28.58		
Net weigl	ht	kg	204	204	204	269	269		
Gross wei	ght	kg	212	212	212	277	277		
Defriesses	Туре	1	R410A	R410A	R410A	R410A	R410A		
Refrigerant	Factory charge	kg	8	8	8	12	12		
Operating temperature	Cooling	°C			-5∼54				
range	Heating	°C			-23~26				
* 3 Maximum fuse current	MFA	А	32	32	32	40	40		
* 3 Minimum line current	MCA	Α	27.5	28.1	28.66	33	35		

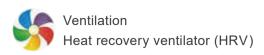
Note:

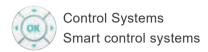
1. The nominal cooling capacity is measured under the following conditions: indoor temperature of 27.0°C DB/ 19.0°C WB; outdoor temperature of 35°C DB.

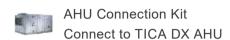
2. The nominal heating capacity is measured under the following conditions: indoor temperature of 20.0°C DB; outdoor temperature of 7°C DB./ 6.0°C WB.

3. Fuse or circuit breaker is selected based on MFA. Electrical wiring is selected based on MCA.











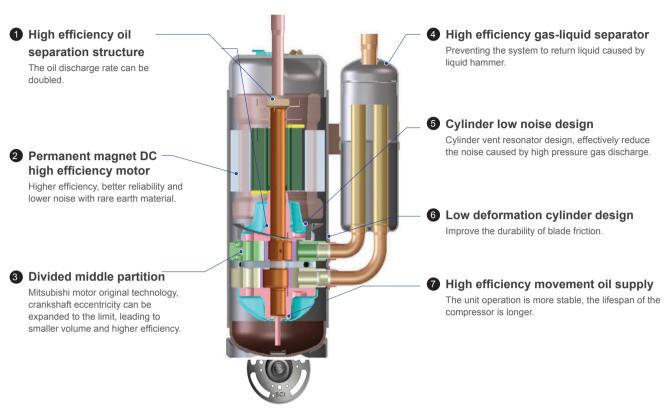
VRF Mini Series Heat Pump

Optimized design for small buildings

- ► Capacity Up to 22.4kw
- ► Connectable Indoor Units Quantity up to 11
- ► Micro-HEX technology
- ▶ Oil return without shutdown
- ► Intelligent defrosting technology
- Advanced silence technology
- ► Compact, easy installation

DC inverter compressor

All series units adopt Mitsubishi twin rotary compressor with many Mitsubishi patented technologies.



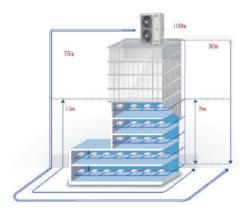
Wide Capacity Range

	Mini series	
8kW	10-16kW	18-22.4kW
		GTICARII Annova

▶ Long Piping Capability

Maximum actual length of single pipe	50m
Maximum equivalent length of single pipe	75m
Maximum total equivalent pipe length	100m
Maximum drop of indoor/ outdoor unit	30m
Maximum drop of indoor unit	8m
Maximum permitted length after first branch	15m*

^{*} Pls consult the detailed technical documentation or other matters with the relative technicists.



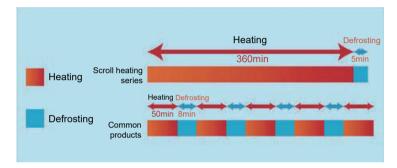
Compact design

Compact design with three-side heat exchanger, can be easily installed in a small space such as a bay window.



▶ Intelligent Defrosting

The patented defrosting technology of TICA can increase the refrigerant circulation flow during defrosting, which will shorten the defrosting time and cut down the power consumption.



► Oil Return On Heating Operation Without Shutdown

TICA adopt on-demand oil return and high/low frequency switchover oil return to prevent wild fluctuation of indoor temperature, and provide user with more comfortable experience.



Mini VRF Specification

			TIMOSSOCODEO	TIMOAAAAAAAA	TIMO44000DEO	TIMOTOTOODEO	TIMOLIAGOREO			
Mod	- -		TIMS080CSREC	TIMS100CSREC	TIMS112CSREC	TIMS125CSREC	TIMS140CSREC			
Power supply	1	V/N/Hz		220-240/1/50(60)						
	Capacity	kW	8.0	10.0	11.2	12.5	14.0			
*1 Cooling	Power input	kW	2.19	2.55	2.92	3.45	3.76			
	EER	1	3.65	3.92	3.84	3.62	3.72			
	Capacity	kW	9.0	11.5	12.5	13.5	16.0			
*2 Heating	Power input	kW	2.15	2.60	3.01	3.46	3.87			
	COP	1	4.19	4.42	4.15	3.90	4.13			
Connectable indoor unit	Total capacity	kW		50%-1	30% of outdoor unit c	apacity				
Compressors	Туре	1			Twin rotary					
Compressors	Quantity	1	1	1	1	1	1			
F	Туре	1								
Fan motors	Quantity	1	1	1	1	1	1			
Airflow rate		m³/h	3300	3300 4800 5400		5400	6000			
Net dimensions (W	*D*H)	mm	865×310×700 980×390×840							
Packed dimensions (W*D*H)	mm	1010×425×735		1026×4	72×863				
Sound pressure I	evel	dB(A)	53	54	55	55	56			
Dina annuations	Liquid pipe	mm			φ9.52					
Pipe connections	Gas pipe	mm			φ15.88					
Net weight		kg	58	74	78	78	84			
Gross weight		kg	68	85	89	89	95			
Refrigerant	Type	1	R410A	R410A	R410A	R410A	R410A			
Operating temperature	Cooling	°C			-5∼54		<u> </u>			
range	Heating	°C			-25∼27					
* 3 Maximum fuse current	MFA	Α	20	20	40	40	40			
* 3 Minimum line current	MCA	Α	16	19	32	32	32			

Mod	el		TIMS160CSREC	TIMS180CSREA	TIMS200CSREA	TIMS224CSREA		
Power supply	1	V/N/Hz	220-240/1/50(60)		380-415/3/50(60)			
*1 Cooling	Capacity	kW	15.5	18.0	20.0	22.4		
	Power input	kW	4.80	6.05	6.18	6.66		
	EER	/	3.23	2.98	3.24	3.36		
	Capacity	kW	17.0	20.0	22.0	25.0		
*2 Heating	Power input	kW	4.65	5.75	5.81	6.36		
	COP	/	3.66	3.48	3.79	3.93		
Connectable indoor unit	Total capacity	kW		50%-130% of out	door unit capacity			
Compressors	Туре	/		Twin	rotary			
Compressors	Quantity	1	1	1	1	1		
Fan motors	Туре	/						
Fan motors	Quantity	/	1	2	2	2		
Airflow rate		m³/h	6000	7200	7200	7200		
Net dimensions (W	/*D*H)	mm	980×390×840 980×390×1260					
Packed dimensions (W*D*H)	mm	1026×472×863	×863 1026×472×1287				
Sound pressure I	evel	dB(A)	56	59	58			
Pipe connections	Liquid pipe	mm		φ9	.52			
- Tipe confidentions	Gas pipe	mm	φ15.88		φ19.05			
Net weight		kg	84	125	125	125		
Gross weight	i	kg	95	136	136	136		
Refrigerant	Туре	/	R410A	R410A	R410A	R410A		
Operating temperature	Cooling	°C		-5~	5~54			
range	Heating	°C		-25	~27			
* 3 Maximum fuse current	MFA	Α	40	20	20	20		
* 3 Minimum line current	MCA	Α	32	17	17	17		

- 1. The nominal cooling capacity is measured under the following conditions: indoor temperature of 27.0 °C DB/19.0 °C WB; outdoor temperature of 35.0 °C DB; equivalent refrigerant piping length 10m with zero level difference.
- 2. The nominal heating capacity is measured under the following conditions: indoor temperature of 20.0 °C DB; outdoor temperature of 7.0 °C DB/6.0 °C WB; equivalent refrigerant piping length 10m with zero level difference.
- 3. Fuse or circuit breaker is selected based on MFA. Electrical wiring is selected based on MCA.





Fresh Air Processing Unit 100% fresh air supply



Ventilation

Heat recovery ventilator (HRV)



AHU Connection Kit
Connect to TICA DX AHU



Control Systems
Smart control systems



TIMS Series Cooling Only

Optimized design for small to large buildings

Optimized design High Efficiency Double C-Shape Heat Exchanger

ESP up to 110Pa

Two Stage Subcooling

Six Stage Oil Return

Multi Silent Technologies

Duty Cycling

Auto Addressing

Backup Operation

Multi Protection

Anti-Corrosion

Micro-HEX Technology

Dust-clean Function

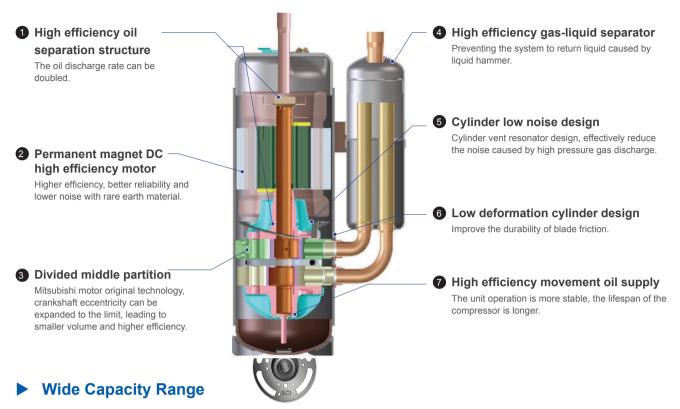
Precise detection of refrigerant pressure

► Black Box Technology

Combine freely

▶ DC inverter compressor

All series units adopt Mitsubishi twin rotary compressor with many Mitsubishi patented technologies.



For single unit, the capacity is up to 16HP. For combined units, maximum three 16HP units can be combined with capacity up to 48HP.

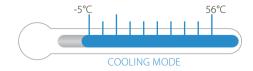


Combine freely

TICA cooling only series units can be combined 3 modules freely without any limitation.

▶ Wide Operating Temperature Range

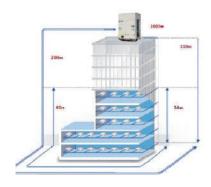
TICA cooling only VRF units can operate stably in a wide ambient temperature range: from -5°C to 55°C.



Long Piping Capability

ODUup : 110m ODU down : 90m
ODU down : 90m
30m
40m(90m)
200m
1000m

Note: Check relevant technical documents or consult technicians.



Cooling only VRF

N	lodel		TIMS080 CXC	TIMS100 CXC	TIMS120 CXC	TIMS140 CXC	TIMS160 CXC	TIMS180 CXC	TIMS200 CXC	TIMS220 CXC	TIMS 240CXC	TIMS 260CXC
*1 Combination			-	-	-	-	-	10+8	12+8	12+10	12+12	14+12
Power supply		/					380-4	15 / 3 / 50(6	0)			
	Capacity	kW	25.2	28.0	33.5	40.0	45.0	53.2	56.0	61.5	67.0	73.0
*2 Cooling	Power input	kW	5.6	6.9	8.8	10.6	12.5	12.5	13.8	15.7	17.6	19.4
	EER	1	4.5	4.1	3.8	3.8	3.6	4.3	4.1	3.9	3.8	3.8
Connectable	Total capacity	kW				50	%-130% of	outdoor uni	t capacity			
indoor unit	Max. quantity	/	14	16	19	19	22	31	33	34	34	36
Compressors	Туре	/					D	C inverter				
Compressors	Quantity	/	1	1	1	1	1	2	2	2	2	2
	Type / DC											
Fan motors	Quantity	/	1	1	1	1	1	2	2	2	2	2
	Max.ESP	Pa		110								
Airflow rate m³/h		m³/h	12000			13980			24000			25980
Net dimensions (W*D*H) mm		mm	930×860×1690			1240×860×1690			(930×860×1690)×2			(930×860×1690)+ (1240×860×1690)
Packed dimen (W*D*H)	sions	mm	990×920×1750			1300×920×1750			(990×920×1750)×2			(990×920×1750)+ (1300×920×1750)
Sound pressur	e level	dB (A)	57			60	61	59			62	
Pipe connections	Liquid pipe	mm			φ1	2.7			φ15.88			φ19.05
	Gas pipe	mm		φ25.4		φ28			φ28.6			φ31.75
Net weight		kg	220	220	220	290	290	440	440	440	440	510
Gross weight		kg	235	235	235	305	305	455	455	455	455	525
	Туре	1						R410A				
Refrigerant	Factory charge	kg	8	8	9	12	12	16	20	17	18	21
Operating temperature range	Cooling	°C		-5~55°C								
*3 Maximum fuse current	MFA	А	20.0	25.0	32.0	40.0	40.0	45.0	52.0	57.0	64.0	72.0
*3 Minimum line current	MCA	А	17.4	21.7	25.8	33.0	35.0	39.1	43.2	47.5	51.6	58.8

Notes:

1. The combination mode is recommended, and you can choose the combination mode freely. Maximum 3 modules can be combined.

2. The nominal cooling capacity is measured under the following conditions: indoor temperature of 27.0 °C DB/19.0 °C WB; outdoor temperature of 35.0 °C DB; equivalent refrigerant piping length 10m with zero level difference.

3. Fuse or circuit breaker is selected based on MFA. Electrical wiring is selected based on MCA.

Cooling only VRF

Model		TIMS280 CXC	TIMS300 CXC	TIMS320 CXC	TIMS340 CXC	TIMS360 CXC	TIMS380 CXC	TIMS400 CXC	TIMS420 CXC	TIMS440 CXC	TIMS460 CXC	TIMS480 CXC	
*1 Combin	ation		14+14	14+16	16+16	12+12+10	12+12+12	14+14+10	14+14+12	14+14+14	16+14+14	16+16+14	16+16+16
Power su	pply	/					380	-415 / 3 / 50	(60)				
	Capacity	kW	80.0	85.0	90.0	95.0	100.5	108.0	113.5	120.0	125.0	130.0	135.0
*2 Cooling	Power input	kW	21.1	23.0	24.9	24.5	26.4	28.0	33.7	31.7	33.6	35.5	37.4
	EER	/	3.8	3.7	3.6	3.9	3.8	3.9	3.4	3.8	3.7	3.7	3.6
Connectable	Total capacity	kW					50%-130%	of outdoor ι	ınit capacity				
indoor unit	Max. quantity	/	38	40	40	42	42	44	46	48	50	52	52
Compressors	Туре	/						DC inverter					
Compressors	Quantity	/	2	2	2	3	3	3	3	3	3	3	3
	Туре	/						DC					
Fan motors	Quantity	/	2	2	2	3	3	3	3	3	3	3	3
	Max. ESP	Ра		110									
Airflow r	Airflow rate m³/h			27960			36000 399		960	41940	41940	41940	41940
Net dimen (W*D*I		mm	(1240×860×1690)×2			(930×860×1690)×3 (930×860×7) (1240×860×7)							
Packed dime (W*D*I		mm	(1300×920×1750)×2			(990×920×1750)×3 (990×920 (1300×920							
*3 Sound pres	sure level	dB (A)	62	63	63	60	60	63	63	63	64	64	64
Pipe connections	Liquid pipe	mm		φ19.05									
Connections	Gas pipe	mm		φ31.75		φ34.92					φ38.1		
Net wei	ght	kg	580	580	580	660	660	780	780	870	870	870	870
Gross we	eight	kg	595	595	595	675	675	795	795	885	885	885	885
	Туре	/						R410A					
Refrigerant	Factory charge	kg	24	24	24	26	27	32	33	36	36	36	36
Operating temperature range	Cooling	°C		-5~55°C									
*3 Maximum fuse current	MFA	Α	80.0	80.0	80.0	89.0	96.0	105.0	112.0	120.0	120.0	120.0	120.0
*3 Minimum line current	MCA	Α	66.0	68.0	70.0	73.0	77.4	87.7	91.8	99.0	101.0	103.0	105.0

^{1.} The combination mode is recommended, and you can choose the combination mode freely. Maximum 3 modules can be combined.

2. The nominal cooling capacity is measured under the following conditions: indoor temperature of 27.0 °C DB/19.0 °C WB; outdoor temperature of 35.0 °C DB; equivalent refrigerant piping length 10m with zero level difference.

3. Fuse or circuit breaker is selected based on MFA. Electrical wiring is selected based on MCA.



Inoor Unit Lineup

ı	κW	1.5	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0
One-way Cassette					•		•		•		•		•			
Two-way Cassette					•		•		•		•		•	•		
Round Flow Cassette					•		•		•	•	•	•	•	•	•	•
Compact Round Flow Cassette		•	•		•		•		•	•						
Slim Duct			•	•	•	•	•	•	•	•	•	•	•			
Medium Static Pressure Duct			•	•	•	•	•	•	•	•	•	•	•	•	•	•
High Static Pressure Duct																•
Wall Mounted	(i)				•		•	•			•					
Ceiling & Floor					•		•				•		•		•	
Full Fresh Air Handling Unit																

DC motorAC motor

Inoor Unit Lineup

ı	kW	11.2	12.5	14.0	16.0	20.0	25.0	28.0	33.5	40.0	45.0	50.0	56.0	61.5
One-way Cassette														
Two-way Cassette														
Round Flow Cassette		•	•	•	•									
Compact Round Flow Cassette														
Slim Duct														
Medium Static Pressure Duct		•	•	•	•									
High Static Pressure Duct		•	•	•		•	•		•	•	•	•	•	•
Wall Mounted	() e													
Ceiling & Floor		•	•	•										
Full Fresh Air Handling Unit				•			•	•			•		•	

DC motorAC motor

AHU KIT

Model	Setting cooling capacity (HP)	Indoor unit capacity (kW)	reference air volume (m³/h)	Picture
TMDK 056	2	5-6	800	
TMDK 090	4	7-10	1600	
TMDK 180	6	10-20	2500	
TMPMOO	8	20~25	3000	
TMDK280	10	25~30	3700	
	12	30~36	4500	
TMDK450	14	36~40	5400	
	16	40~45	6000	-
	18	45~50	6800	
	20	50~56	7600	
	22	56~61.5	8400	1 1
TMDK900	24	61.5~67	9000	
TMDK900	26	67~73	9800	
	28	73~78	10600	
	30	78~84	11400	
	32	84~90	12000	

One-way Cassette

COMFORT

Quiet Operation

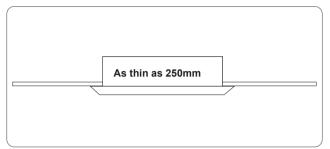
The compact turbo fan adopts axial air intaking. Small blades ensure even air supply and substantially reduce noise for a quiet and comfort environment.



EASY INSTALLATION

Easy Installation

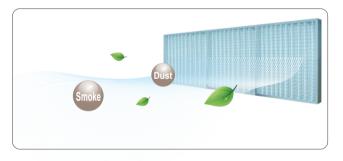
Body thickness of 250 mm installed in a concealed way to lift the height of the suspended ceiling, especially suitable for ceilings with narrow height.



▶ HEALTH

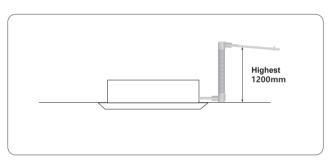
Exclusive Sterilizing Filter

The unique sterilizing filter can effectively filter smog and dust from air, to provide users with fresh air all the time.



High-lift Drain Pump

Built-in with a fully-automatic drain pump. Pumping head is up to 1200mm, flexible for drainage pipe design.



AIR FLOW

Wide air supply outlet

Fan deflector may provide wide range air supply of 10-65°, creating cozy living environment indoors and comfortable feeling of wide angle.



One-way cassette

	Model (TMCS-XX-A)		028	036	045	056	071
Nom	inal cooling capacity	kW	2.8	3.6	4.5	5.6	7.1
Nom	inal heating capacity	kW	3.2	4.0	5.0	6.3	8.0
	Power supply	V/N/Hz			220/1/50		
	Motor type	-			AC motor		
No	minal input power	W	40	40	45	45	50
Dir	nensions (WxDxH)	mm		870×460×250		1180×4	95×290
Panel	dimensions (WXDxH)	mm		1070×520×33		1380×	550×33
	Panel color				Milky white		
	High		510	600	720	910	1000
Air flow	Medium	m³/h	410	480	570	830	850
	Low		310	360	450	700	750
Sound	pressure level (H/M/L)	dB(A)	36/34/30	36/28/26	42/39/35	45/41/39	47/43/40
	Weight	kg	25	27	27	39	39
_	Liquid pipe	mm		φ6	.35		φ9.52
Connecting pipe Dimensions	Gas pipe	mm		φ12	2.70		φ15.88
Dillicipions	Condensate drain pipe	mm			DN20		

Two-way Cassette

COMFORT

Quiet Operation

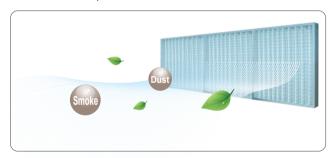
The compact turbo fan adopts axial air intaking. Small blades ensure even air supply and substantially reduce noise for a quiet and comfort environment.



▶ HEALTH

Exclusive Sterilizing Filter

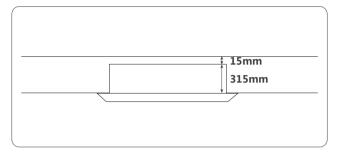
The unique sterilizing filter can effectively filter smog and dust from air, to provide users with fresh air all the time.



EASY INSTALLATION

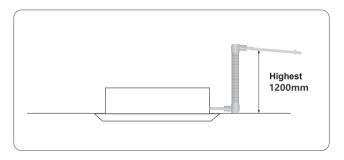
Easy Installation

Body thickness of 250 mm installed in a concealed way to lift the height of the suspended ceiling, especially suitable for ceilings with narrow height.



High-lift Drain Pump

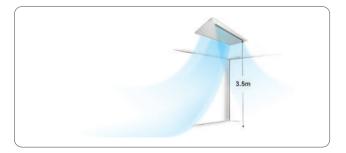
Built-in with a fully-automatic drain pump. Pumping head is up to 1200mm, flexible for drainage pipe design.



AIR FLOW

Wide air supply outlet

Fan deflector may provide wide range air supply of 10-65°, creating cozy living environment indoors and comfortable feeling of wide angle.



► Two-way cassette

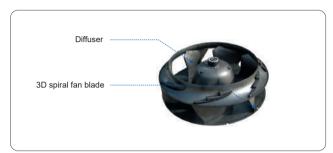
	Model (TMCD-XX-A)		028	036	045	056	071	080
Nominal o	cooling capacity	kW	2.8	3.6	4.5	5.6	7.1	8.0
Nominal h	neating capacity	kW	3.2	4.0	5.0	6.3	8.0	9.0
Pov	ver supply	V/N/Hz			220/	1/50		
М	otor type	-			AC n	notor		
Nomina	al input power	W	60	62	68	85	94	98
Dimens	ions (WxDxH)	mm		970×52	20×315		1210×5	20×315
Panel dime	ensions (WXDxH)	mm		1176×6	630×33		1416×6	630×33
	Panel color				Milky	white		
	High		500	616	773	900	1165	1300
Air flow	Medium	m³/h	426	523	657	765	990	1120
	Low		376	462	580	657	873	980
Sound pres	sure level (H/M/L)	dB(A)	37/31/25	39/36/32	43/37/31	45/41/39	47/43/40	49/45/42
,	Weight	kg	32	32	37	37	40	40
	Liquid pipe	mm		φ6	.35		φ9	.52
Connecting pipe Dimensions	Gas pipe	mm		φ12	2.70		φ15	5.88
	Condensate drain pipe	mm			DN	120		

Round Flow Cassette

COMFORT

Quiet Operation

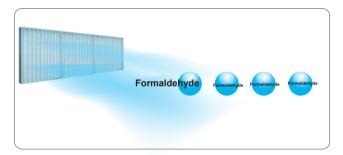
The use of aerospace technology on 3D spiral fan blades with optimized air duct design reduces internal resistance of the unit and achieves ultra-quiet operation, creating a comfortable and pleasant environment.



▶ HEALTH

Health

PM2.5, formaldehyde and antibacterial filters are to provide super-clean indoor environment.



AIR FLOW

360° Air Flow

360° air flow design features more reasonable airflow distribution and more uniform temperature in the entire room for improved comfort.



High Ceiling Installation

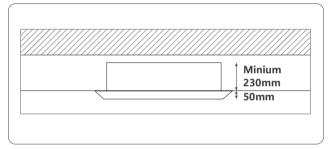
The air supply is not limited by the floor height. The cold air can reach the ground in a room of up to 3.5 m high to achieve optimum air conditioning performance.



EASY INSTALLATION

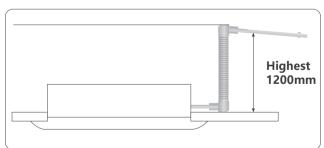
Compact Size

The height of models 28 to 80 are just 230mm whilst models 90 to 160 are 300mm, making the round flow cassette idea for standard ceilings.



High-lift Drain Pump

Built-in with a fully-automatic drain pump. Pumping head is up to 1200mm, flexible for drainage pipe design.



▶ Round flow cassette

Mode	I (TMCF-XX-AB)		028	036	045	050	056	063	071	080	090	100	112	125	140	160	
	,	134/	2.8						-					-	-		
Nominal cod	oling capacity	kW		3.6	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0	
Nominal hea	ating capacity	kW	3.2	4.0	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0	18.0	
Power	supply	V/N/Hz							220)/1/50							
Moto	r type	-							AC	motor							
Nominal in	nput power	W	55	55	70	70	75	75	90	90	150	150	150	190	190	210	
Dimension	ns (WxDxH)	mm				840×84	10×230						840×8	340×300			
Panel dimens	ions (WXDxH)	mm							950×	950×50				40×840×300 700 1800 1800 2			
	Panel color								Milky	y white							
	High		750	810	900	900	960	960	1020	1200	1500	1620	1700	1800	1800	2100	
Air flow	Medium	m³/h	660	690	720	720	780	780	900	1080	1200	1260	1360	1500	1500	1800	
	Low]	540	540	600	600	660	660	690	870	900	1020	1080	1200	1200	1500	
Sound pressu	re level (H/M/L)	dB(A)	32/3	0/25		36/3	3/31		39/3	6/33		42/39/35		44/4	0/35	44/40/36	
We	eight	kg	22.5	22.5	24.5	24.5	24.5	24.5	24.5	24.5	29.5	29.5	29.5	29.5	32	32	
	Liquid pipe	mm			φ6	.35						φ(9.52				
Connecting	Gas pipe	mm			φ12	2.70						φ1	5.88				
pipe Dimensions	Condensate drain pipe	mm							D	N25							

▶ DC round flow cassette

Model	(TMCF-XX-AE	3B)	028	036	045	050	056	063	071	080	090	100	112	125	140	160
Nominal cod	oling capacity	kW	2.8	3.6	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0
Nominal hea	ating capacity	kW	3.2	4.0	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0	18.0
Power	r supply	V/N/Hz							220	/1/50						
Moto	or type	-							DC r	notor						
Nominal i	nput power	W	36	36	45	45	45	45	73	73	67	67	88	88	88	130
Dimension	ns (WxDxH)	mm				840×8	40×230						840×8	40×300		
	mensions (DxH)	mm							950×9)50×50						
F	Panel color								Milky	white						
	High		810	810	960	960	960	960	1020	1200	1500	1500	1800	1800	1800	2100
Air flow	Medium	m³/h	690	690	780	780	780	780	900	900	1200	1200	1500	1500	1500	1800
	Low		540	540	660	660	660	660	690	690	900	900	1200	1200	1200	1500
	essure level M/L)	dB(A)	32/3	0/25		36/3	33/31		39/3	6/33		42/39/35		44/4	0/35	44/40/36
We	eight	kg	22.5	22.5	24.5	24.5	24.5	24.5	24.5	24.5	29.5	29.5	29.5	29.5	32	32
0	Liquid pipe	mm			φ6	.35						φ9	.52			
Connecting	Gas pipe	mm			φ12	2.70						φ15	5.88			
pipe Dimensions	Condensate drain pipe	mm							DN	N25						

▶ Compact Round Flow Cassette

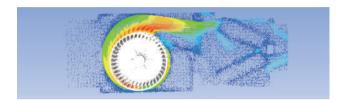
Model	(TMCF-XX-AC)		015	022	028	036	045	050
Nominal cod	ling capacity	kW	1.5	2.2	2.8	3.6	4.5	5.0
Nominal hea	iting capacity	kW	2.2	2.5	3.2	4.0	5.0	5.6
Power	supply	V/N/Hz			220/	1/50		
Moto	r type	-			AC m	notor		
Nominal in	nput power	W	50	50	50	75	75	75
Dimension	s (WxDxH)	mm			590×59	0×260		
Panel dimens	ions (WXDxH)	mm			680×68	30×30		
F	Panel color				Milky	white		
	High		500	500	500	680	680	680
Air flow	Medium	m³/h	420	420	420	600	600	600
	Low	1 [350	350	350	490	490	490
Sound pressur	e level (H/M/L)	dB(A)		36/33/23			42/36/29	
We	ight	kg	16	16	16	18	18	18
0	Liquid pipe	mm			φ6.	35		
Connecting pipe	Gas pipe	mm			φ12	.70		
Dimensions	Condensate drain pipe	mm			DN	25		

Slim Duct

▶ COMFORT

Quiet Operation

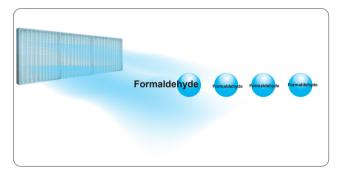
Use the brand-new CFD optimized duct and simulated fan blades to ensure softer air supply, and the auxiliary streamlined embedded foam wiring drain pan lowers noise of eddy current to 23 dB, equal to the normal human breathing sound.



► HEALTH

Health

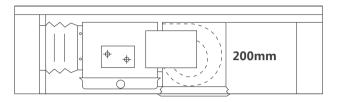
PM2.5, formaldehyde and antibacterial filters are to provide super-clean indoor environment.



EASY INSTALLATION

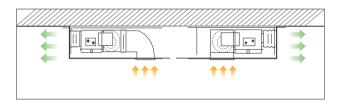
Compact Size

Designed with 200 mm thickness, the body is lighter and the installation space required is smaller, making it suitable for more small spaces.



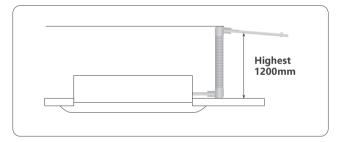
Diversified air return mode

The air return plenum as standard configuration may change air return mode based on the actual circumstances at the site to enable more flexible air return.



High-lift Drain Pump

Built-in with a fully-automatic drain pump. Pumping head is up to 1200mm, flexible for drainage pipe design.



▶ Slim duct

Model	(TMDN-XX-AC)		022	025	028	032	036	040	045	050	056	063	071
Nominal coo	, ,	kW	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1
- INOITIIIIai COO	ing capacity	KVV	2.2	2.5	2.0	3.2	3.0	4.0	4.5	3.0	3.0	0.5	7.1
Nominal hea	ting capacity	kW	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0
Power	supply	V/N/Hz						220/1/50					
Motor	type	-						AC motor					
Nominal in	put power	W	54	54	54	55	55	55	77	77	77	100	105
Dimension	Dimensions (WxDxH) mm 700×450×200 920×450×200 1140×4					50×200							
	High		500	500	500	560	560	560	750	750	750	920	1000
Air flow	Medium	m³/h	370	370	370	430	430	430	620	620	620	710	800
	Low		310	310	310	360	360	360	550	550	550	590	680
ESP (ad	justable)	Pa						10(30)					
Sound pressur	e level (H/M/L)	dB(A)	33/28/23	33/28/23	33/28/23	33/28/24	33/28/24	33/28/24	35/30/28	35/30/28	35/30/28	36/32/28	37/32/29
We	ight	kg	17.5	17.5	17.5	17.5	17.5	17.5	21.5	21.5	21.5	28	28
0	Liquid pipe	mm					φ6	.35					φ9.52
Connecting pipe	Gas pipe	mm		φ9.52					φ12.70				φ15.88
Dimensions	Condensate drain pipe	mm						DN25					

▶ DC Slim duct

Model	(TMDN-XX-ACB)	022	025	028	032	036	040	045	050	056	063	071
Nominal cod	ling capacity	kW	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1
Nominal hea	iting capacity	kW	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0
Power	supply	V/N/Hz						220/1/50					
Moto	r type	-						DC motor					
Nominal in	nput power	W	40	40	40	45	45	50	50	50	50	60	60
Dimension	s (WxDxH)	mm			700×4	50×200			9:	20×450×20	00	1140×4	50×200
	High		500	500	500	560	560	750	750	750	750	920	1000
Air flow	Medium	m³/h	370	370	370	430	430	620	620	620	620	710	800
	Low		310	310	310	360	360	550	550	550	550	590	680
ESP (ad	ljustable)	Pa						10(30)					
Sound pressur	re level (H/M/L)	dB(A)		33/28/23		33/2	8/24		35/3	0/28		36/32/28	37/32/29
We	ight	kg	17.5	17.5	17.5	17.5	17.5	21.5	21.5	21.5	21.5	28	28
	Liquid pipe	mm					φ6	.35					φ9.52
Connecting	Gas pipe	mm		φ9.52					φ12.70				φ15.88
pipe Dimensions	Condensate drain pipe	mm						DN25					

Medium static pressure duct

COMFORT

Quiet Operation

The fan motor of delicate and compact design equipped with brand-new propeller housing with vibration absorption function delivering operating noise as low as 33dB(A) to satisfy rigorous noise requirements at different sites.



▶ HEALTH

Health

Can be equipped with HYplus TP04/05/06 purification module as optional.(Changeable ESP type only)



AIR FLOW

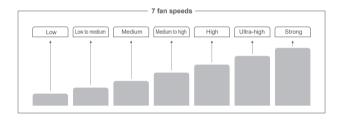
Brushless DC motor

Brushless DC motor free of excitation loss and carbon brush loss, with the energy efficiency 30% higher than AC motor.



Seven fan speeds, up to 100Pa static pressure

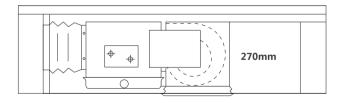
Multiple noise reduction measures and seven fan speeds can achieve low-noise operation for a quieter environment(as low as 33dB (A)).



EASY INSTALLATION

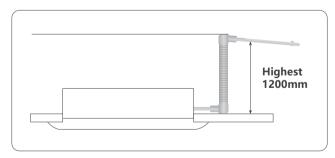
Compact Size

Thickness of only 270mm installed in a concealed way to lift the height of the suspended ceiling, especially suitable for ceilings with narrow height of suspended ceilings.



High-lift Drain Pump

Built-in with a fully-automatic drain pump. Pumping head is up to 1200mm, flexible for drainage pipe design.



► Medium static pressure duct

Model (1	MDN-XX-AE	3)	022	025	028	032	036	040	045	050	056	063			
Nominal cooli	Nominal heating capacity kW 2.5 Power supply V/N/Hz Motor type - Nominal input power W 35 Dimensions (WxDxH) mm Air flow High m³/h 450 4 ESP (adjustable) Pa Sound pressure level (H/M/L) dB(A) 33/31/26 33/			2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3			
Nominal heati	ng capacity	kW	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1			
Power s	supply	V/N/Hz					220/	1/50							
Motor	type	-					DC n	notor							
Nominal inp	out power	W	35	35	35	40	40	40	45	45	45	60			
Dimensions	(WxDxH)	mm			920×4	50×200				1140×4	1140×450×200				
Air flow	High	m³/h	450	450	450	500	500	500	650	650	650	920			
ESP (adju	ustable)	Pa					30 (0/10)/30/50)							
Sound pressure	level (H/M/L)	dB(A)	33/31/26	33/31/26	33/31/26	33/31/26	33/31/26	33/31/26	35/33/27	35/33/27	35/33/27	37/34/27			
Weig	ght	kg	21.5	21.5	21.5	21.5	21.5	21.5	26.5	26.5	26.5	28			
	Liquid pipe	mm					φ6	.35							
Connecting pipe	Gas pipe	mm					φ12	2.70							
Dimensions	Condensate drain pipe	mm					DN	125							

► Changeable ESP Duct

N	lodel (TMDN-XX-AE)		071	080	090	100	10.0 11.2 12.5 14.0 16.0 11.2 12.5 14.0 16.0 18. 220/1/50 DC motor 160 160 160 200 20 1200×680×270 1600 1600 1600 2000 200 (30~100) 50(30~100) 50(30~100) 50(30~100) 50(30~3/37/33 43/37/33 43/37/33 43/37/33 43/35/27 43/35 37 37 37 37 38 38 φ9.52						
Nominal	cooling capacity	kW	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0			
Nominal	heating capacity	kW	8	9.0	10.0	11.2	12.5	14.0	16.0	18.0			
Po	wer supply	V/N/Hz				220/	1/50						
N	Notor type	-				DC r	notor		200 200 2000 200 2000 50(30~100) 50(30~133 43/35/27 43/35				
Nomir	al input power	W	110	130	130	160	160	160	200	200			
Dimen	sions (WxDxH)	mm				1200×6	80×270	70					
Air flow	High	m3/h	1000	1300	1300	1600	1600	1600	2000	2000			
ESP	(adjustable)	Pa	50(30~100)	50(30~100)	50(30~100)	50(30~100)	50(30~100)	50(30~100)	50(30~100)	50(30~100)			
Sound pre	ssure level (H/M/L)	dB(A)	37/35/33	40/36/33	40/36/33	43/37/33	43/37/33	43/37/33	43/35/27	43/35/27			
	Weight	kg	34.5	34.5	34.5	37	37	37	38	38			
	Liquid pipe	mm				φ9	.52						
Connecting pipe Dimensions	Gas pipe	mm				φ15	5.88						
בווופוופוווט	Condensate drain pipe	mm				DN	125						

High static pressure duct

COMFORT

Quiet Operation

Brand-new noise reduction technology effectively reducing noises of the unit to provide quiet and pleasant environment.



AIR FLOW

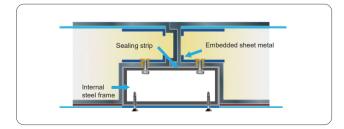
Ultra-high static pressure design

The external static pressure reaches 200-300Pa, making it possible to connect long air duct to realize long distance air supply, especially suitable for scenarios needing air supply by long air ducts.



High-end double-wall design

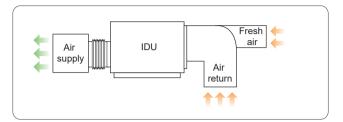
All the metal parts in the cabinet are isolated from outside metal parts, using polyurethane foam and specially designed sealing strips, avoiding the thermal insulation strips attached inside the common product to prevent condensation. Cold bridge and dripping are resolved, and the system noise is lower.



▶ HEALTH

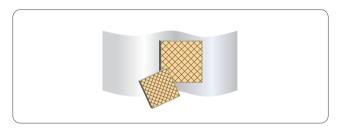
Intake fresh air to improve air quality

Small amount of outdoor fresh air can be introduced through the air duct to ensure the quality of room air.



Customized air purification program as optional

Customized air purification program, the antibacterial filtering layer including photocatalyst and activated carbon can effectively remove odors, dust, smoke, and formaldehyde, benzene and other hazardous substances in decorative materials to create a comfort room with fresh air.



EASY INSTALLATION

Various air supply modes

Choosing different air supply modes as per room structure, one IDU of air conditioner can meet the diversified space requirements.



Hidden installation and elegant appearance

The IDU and duct are in the ceiling and can fit into the interior decoration perfectly. Specifications

► High static pressure duct

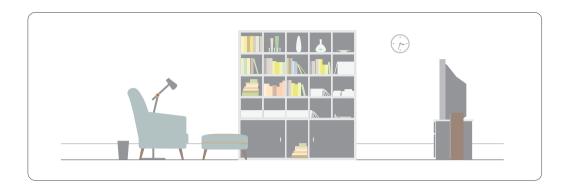
Мо	del (TMDH-X	X-AB)		100		112		125		140
Nominal o	cooling capaci	ty	kW	10.0		11.2		12.5	1	14.0
Nominal h	neating capaci	ty	kW	11.2		12.5		14.0	1	16.0
Pow	ver supply		V/N/Hz				220/1/50			
Mo	otor type		-	AC motor						
Nomina	al input power		W	400		420		500		550
Dimensi	ions (WxDxH)		mm				1200×750×390			
	Hig	h		1800		2000		2250	2	700
Air flow	Medi	um	m³/h	1450		1600		1800	2	150
	Lov	v		1050		1300		1450	1	750
ESP ((adjustable)		Pa	50 (100/2	200)	50 (100/200)	50	(100/200)	50 (1	00/200)
Sound press	sure level (H/I	M/L)	dB(A)	49/46/4	12	49/46/42		51/47/43	51/	47/43
١	Weight		kg	62		62		62		62
	Liquid	pipe	mm				φ9.52			
Connecting pipe Dimensions	Gas p	ipe	mm				φ15.88			
	Condensate	drain pipe	e mm				DN25			
	MDH-XX-BI)	1110/	200	250	335	400	450	500	560	615
Nominal cooling		kW	20.0	25.0	33.5	40.0	45.0	50.0	56.0	61.5
Nominal heating		kW	22.4	27.0	37.5	45.0	50.0	56.0	63.0	69.0
Power su		V/N/Hz					/3/50			
Motor ty		-	1100	1100	2200	2200	notor 3000	2000	2000	3000
Nominal inpu		mm		1100 -10×590	2200		3000 360×800	3000	3000 1006×23	
Air flov		m³/h	4000	4000	7000	7000	9000	9000	1000^23	10000
ESP		Pa	100/200	100/200	100/180/250		100/180/250	100/180/250	200/300	200/300
Sound pressu	ıra laval	dB(A)	54					57	59	59
Weigh		kg	100	100	54 55 55 57 100 200 200 200				260	260
vveign	Liquid pipe	mm		100 200 200 200 200 200 p12.7 φ15.88				200	φ19	
Connecting pipe	Gas pipe	mm	•	2.23		·	8.6	_	φ3	
Dimensions	Condensate	mm	ΨΖ	0			i32		Ψ3	1.0
	drain pipe									

Wall Mounted

▶ COMFORT

Quiet Operation

Brand-new highly efficient noise reduction motor built with the latest technology minimizing the noise of IDU.



► HEALTH

Wide air flow

The unique two-layered auto swing providing wider air supply range to optimize air flow compared to conventional units.



EASY MAINTENANCE

Removable air return panel

The removable air return outlet panel facilitates the cleaning of filter and panel.



► Wall-mounted

Model	(TMVW-XX-ACB)		028	036	040	056
Nominal cooli	ng capacity	kW	2.8	3.6	4.0	5.6
Nominal heati	Nominal heating capacity		3.0	4.3	4.5	6.0
Power s	supply	V/N/Hz		220/	/1/50	
Motor	type	-		DC r	notor	
Nominal inp	out power	W	65	65	70	70
Dimensions	(WxDxH)	mm		803×209×287		913×209×287
	High		600	600	600	750
Air flow	Medium	m³/h	550	550	550	700
	Low		500	500	500	650
Sound pressure	level (H/M/L)	dB(A)		40/36/32		45/41/35
Weig	ght	kg	12	12	12	13
	Liquid pipe	mm		φ6.35	,	φ9.52
Connecting pipe Dimensions	Gas pipe	mm		φ9.52		φ15.88
	Condensate drain pipe	mm		DN	N20	

Celling & Floor

▶ COMFORT

Quiet Operation

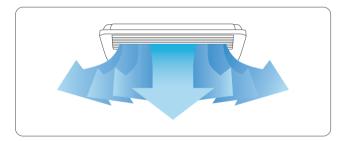
Unequally spaced oblique angle large diameter through flow fan is used to ensure strong air supply, lower fan speed and lower energy consumption.



AIR FLOW

Wide air flow

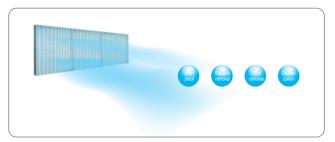
Auto wide-range air supply guaranteed gentle, natural, and even air flow. Various air supply modes are available. Anti-cold wind design ensures more comfortable air supply in winter.



► HEALTH

Health

An efficient filter device is equipped to completely filter dust, smoke and other small particles in the air, effectively preventing bacteria breeding and thoroughly improving the air quality.



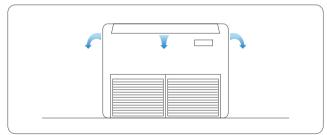
EASY MAINTENANCE

Removable air return panel

The removable air return outlet panel facilitates the cleaning of filter and panel.

Single-side maintenance

All maintenance work and the removal of fan and motor can be implemented through the access hole on the side.



► Ceiling & Floor

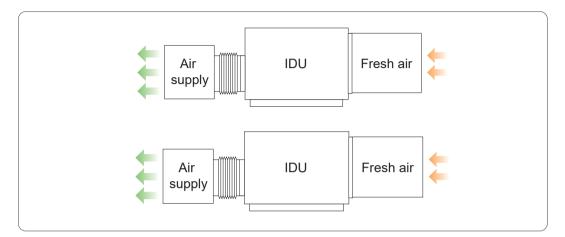
	Model (TMVX-XX-A)		028	036	056	071	090	112	125	140
Nomi	nal cooling capacity	kW	2.8	3.6	5.6	7.1	9.0	11.2	12.5	14.0
Nomi	nal heating capacity	kW	3.2	4.0	6.3	8.0	10.0	12.5	14.0	16.0
	Power supply	V/N/Hz				220/	1/50		,	
	Motor type	-	- AC motor							
No	minal input power	W	48	62	85	120	156	210	240	240
Dim	nensions (WxDxH)	mm	(905×673×243	3	1288×6	73×243	1	672×673×24	3
	High		450	600	820	1100	1470	1800	2000	2000
Air flow	Medium	m³/h	360	480	700	980	1280	1550	1680	1680
	Low		280	370	570	850	1060	1250	1350	1350
Sound _I	pressure level (H/M/L)	dB(A)	42/39/36	43/40/38	45/42/40	47/44/41	49/46/42	50/47/44	51/48/45	51/48/45
	Weight	kg	28	28	30	40	40	45	45	45
	Liquid pipe	mm		φ6.35				φ9.52		
Connecting pipe	Gas pipe	mm		φ12.70				φ15.88		
Dillicipiolis	Dimensions Condensate drain pipe mm					DN	125			

Full-fresh air handling unit

▶ HEALTH

Intake fresh air

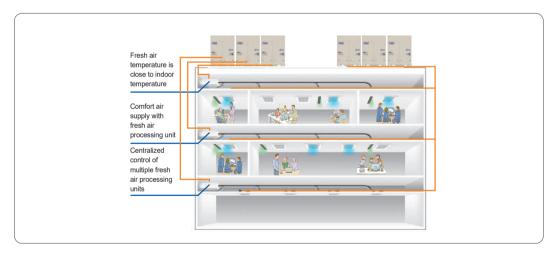
Intake fresh air to make the outdoor air close to room temperature through the indoor heat exchanger and the powerful heating/cooling capacity, so as to meet various requirements.



▶ AIR FLOW

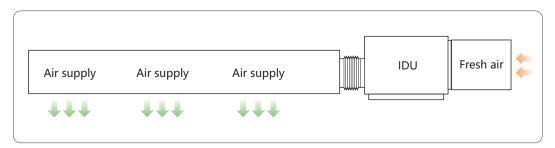
Multi-split unit for multi-point air supply

Air outlets can be flexibly configured to meet the requirements for multi-point air supply.



300Pa ultra-high static pressure

All fresh air handling unit has the static pressure up to 300 Pa, making it possible to connect extra-long air duct to realize long distance air supply and bring fresh and clean air to indoor places.



► Full-fresh air handling unit

M	odel (TMDF)		120A-020	175A- 022	210A- 020	250A- 015	250A- 020	250A- 030	300A- 020	400A- 020	400A- 030	500A- 020	500A- 030	600A- 020	600A- 030
Nominal coo	oling capacity	kW	14.0	25.0	28.0	28.0	28.0	28.0	28.0	45.0	45.0	56.0	56.0	56.0	56.0
Nominal hea	iting capacity	kW	10.0	14.0	17.4	17.4	17.4	17.4	17.4	28.0	28.0	35.0	35.0	35.0	35.0
Power	supply	V/N/Hz	220/1	/50						380)/3/50				
Moto	r type	-						AC n	notor						
Nominal in	nput power	W	330	630	700	480	560	790	750	880	1290	1000	1400	1350	1700
Dimension	s (WxDxH)	mm	1200×750×390			1300×8	20×500		'	1650×8	50×665		2000×8	50×665	
Air	flow	m³/h	1200	1750	2100	2500	2500	2500	3000	4000	4000	5000	5000	6000	6000
E	SP	Pa	200	220	200	150	200	300	200	200	300	200	300	200	300
Sound pre	ssure level	dB(A)	49	49	49	52	55	58	56	59	62	62	65	62	65
We	ight	kg	62	75	75	75	75	75	75	140	140	165	165	165	165
	Liquid pipe	mm	φ9.52				φ1	2.70					φ15	5.88	
Connecting pipe	Gas pipe	mm	φ15.88			φ22	2.23			φ25	5.58		φ28	3.58	
Dimensions	Condensate drain pipe	mm				DN25									



97%

PM2.5 purification efficiency *1

90%

Formaldehyde purification efficiency *2



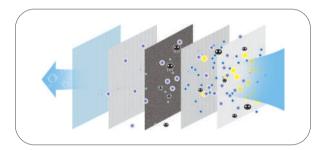
Heat Recovery Ventilator (HRV)



Multiple haze removal

Must-have for haze removal

- Filtering offers layers of protection.
- The maximum PM2.5 removal rate is 95%.



▶ Highly efficient energy recovery

Efficient heat exchange core

- The heat recovery core is formed by cross-laminating and rotating the single-sided corrugated, parallel paper sheets by 90°, with two mutually vertical and non-interfering channels. The fresh air and return air are able to exchange heat and humidity without being mixed when passing the two channels.
- With the latest technology of Japan, the parallel paper is even and tight, and boasts a heat recovery rate of 80%.

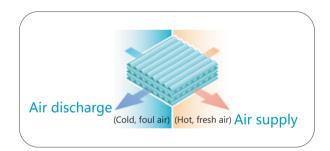


► Omni-directional air replacement

Fresh air enjoyed without opening the window

The unit is ceiling-mounted in places not that noisesentimental. With all air ports put indoors, it can ensure that air is supplied and discharged evenly and smoothly.





Specifications

Model (TRV-XX)		015	025	035	050
Power supply	V/N/Hz		220/	1/50	
Power Input	W	105	135	276	365/380
Current	Α	0.5	0.6	1.25	1.7/1.76
Air flow rate	m³/h	150	250	350	500
Purification efficiency	%	95	95	95	95
ESP	Pa	80	80	80	50/100
Heat exchange efficiency (heating/cooling)	%	85/67	82/63	80/62	73/61
Enthalpy exchange efficiency (heating/cooling)	%	75/55	72/52	68/51	64/50
Sound pressure level	dB(A)	32	34	39	43
Weight	kg	24	24	27	53
Dimension	mm			950×972×314	

Standard series fresh air ventilators



Patent structure and low air leakage rate

The junction part of the unit uses aluminum profile with a concave groove and a convex groove and is secured with bolts and nuts to form a patented labyrinth sealing structure, achieving the air leakage rate as low as 0.029% - only 1/66 of the air leakage rate allowed in the national standard and realizing lower operating costs.

► High efficiency and energy saving

The full core heat exchanger achieves high heat exchange efficiency, temperature efficiency as high as 70% and enthalpy efficiency as high as 60%.

► Elimination of cold bridge and rust

All the metal parts in the cabinet of TICA's high-capacity duct IDU are isolated from outside metal parts using polyurethane foam and specially designed sealing strips, avoiding the thermal insulation strips attached inside the common product to prevent condensation. Cold bridge and dripping are resolved, and the system noise is lower.

Safe and reliable

The direct driven fan does not require maintenance. Only the filter needs to be cleaned regularly.

Specification

	Model (TFD-XX)		010FC	015FC	020FC	025FC	030FC	040FC	050FH	060FH	080FH	105FH
Air flow		m³/h	1000	1500	2000	2500	3000	4000	5000	6000	8000	10500
ESP	Air supply	Pa	90	110	120	110	100	110	100	100	110	100
ESP	Air discharge	Pa	90	110	120	110	100	110	100	100	110	100
0	Temperature recovery efficiency	%	61	59	61	58	59	57	57	59	57	57
Cooling	Enthalpy recovery rate	%	52	51	53	50	51	50	50	51	50	50
I I 4i	Temperature recovery efficiency	%	72	71	73	70	71	69	69	71	69	69
Heating	Enthalpy recovery rate	%	60	59	61	58	59	58	58	59	58	58
	Air supply	kW	0.2	0.3	0.45	0.55	0.55	1	1.5	0.55X2	1.00X2	1.50X2
Motor power	Air discharge	kW	0.2	0.3	0.45	0.55	0.55	1	1.5	0.55X2	1.00X2	1.50X2
Sound pressur	re level	dB(A)	53	53	55	56	58	59	62	62	63	66
Power supply		V/N/Hz		220/1/50		380/3/50						

High-end series fresh air ventilators

Wide application

Wide air flow range: 1000m3/h~6000m3/h

Model models: Two-way ventilation and energy recovery

Apply to occasions such as residences, meeting rooms, labs, offices,

equipment rooms, restaurants and gyms.

► High reliability

Structural design: The product is designed with a sheet metal structure, with insulation cotton attached inside.

Easy installation

Convenient installation: The machine is positioned in the ceiling and does not occupy the indoor effective space.



Model (TRD	-XX)		100	150	200	250	300	400	500	600
Fresh air flow	Fresh air flow			1500	2000	2500	3000	4000	5000	6000
ESP		Pa	120	160	105	100	150	125	95	120
Enthalay rescuent rate	Cooling	%	51	51	51	51	58	51	57	58
Enthalpy recovery rate	Heating	%	67	62	61	62	71	65	71	70
Towns return resource officiens	Cooling	%	67	61	61	64	64	67	67	67
Temperature recovery efficiency	Heating	%	82	77	75	80	82	78	82	84
Sound pressure level		dB(A)	45	51	52	53	52	58	59	60
Input power of the entire unit		W	550	920	1310	1630	1900	1940	2790	3280
Current of the entire unit		А	2.7	4.2	6.3	7.6	8.7	5.3	7.3	7.8
Power supply		V/N/Hz			220/1/50				380/3/50	
Net Weight I			100	143	175	185	198	290	360	390



TIMS HYplus Healthy VRF

Quadruple Filtration

- Physical intercept
- ... Chemical aldehyde removal
- Silver ion bacteriostasis
- **W** UVC disinfection



Healthy Air Is On the Way

▶ Basic Benefits of Healthy Air

Reduce Illness
Alleviate Allergies
Pet-Friendly
Sleep Better

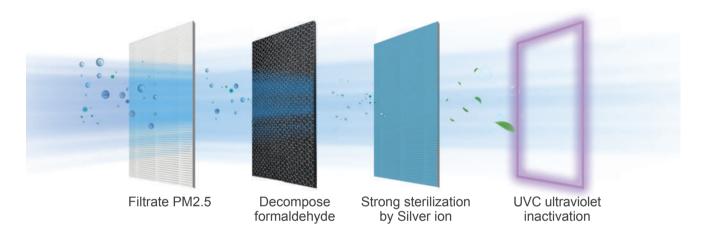




Maintain Wellness

Protect Your Home

Quadruple Filtration



Creating healthy life

Use chemical formaldehyde removal filters and the efficiency is up to 95% in a 30 m³ lab module.

► Return to safe envirnoment

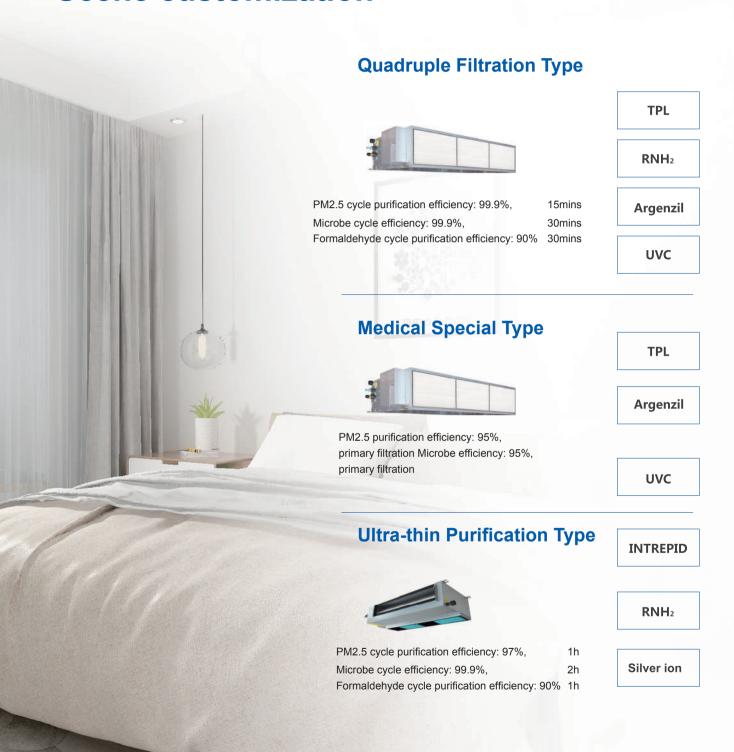
Use Argenzil and UVC to sterilize and inactivate.

The sterilization efficiency of Ag+ is 60000 times that of alcohol.

UVC light can denature and dissociate protein.

The primary purification efficiency of microbe is up to 90%.

Scene customization



▶ Purify Module Matching Table

Type	Model										Сара	acity	(kW)						
Туре	wodei	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0
Hyplus-Ultra-thin Purification Type (TP03)	TMDP	•	•	•	•	•	•	•	•	•	•	•							
Hyplus-Medical Special Type (TP04)	TMDP											•	•	•	•	•	•	customize	customize
Hyplus-Microelectrostatic Type (TP05)*	TMDP											•	•	•					
Hyplus-Quadruple Filtration Type (TP06)	TMDP	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Note: "*" is not available now.

► HYplus IDU

	TMDP-ACANN	IN	022	025	028	032	036	040	045	050	056	063	071
Nominal coo	ling capacity	kW	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1
Nominal hea		kW	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0
Power	- , ,	V/N/Hz	2.5	2.0	3.2	3.0	4.0	220/1/50	5.0	3.0	0.5	7.1	0.0
Motor	,	V/IN/I IZ						AC motor					
Nominal in		W	54	54	54	55	55	55	77	77	77	100	105
Dimensions	· ·		54	34	700×4		55	55		20×450×20	J	1140×4	
Difficusions	· ,	mm	500	500	1		F60	F60	750		I		
A	High	3.0	500	500	500	560	560	560		750	750	920	1000
Air flow	Medium	m³/h	370	370	370	430	430	430	620	620	620	710	800
505 (11	Low		310	310	310	360	360	360	550	550	550	590	680
` '	P (adjustable) Pa 10(30) ressure level (H/M/L) dB(A) 33/28/23 33/28/23 33/28/23 33/28/24 33/28/24 35/30/28 35/							0.5/0.0/0.0	05/00/00	00/00/00	07/00/00		
· ·		. ,	33/28/23	33/28/23	33/28/23	33/28/24	33/28/24	33/28/24	35/30/28	35/30/28	35/30/28	36/32/28	37/32/29
Wei		kg	17.5	17.5	17.5	17.5	17.5	17.5	21.5	21.5	21.5	28	28
Connecting	Liquid pipe	mm					φ6	.35					φ9.52
pipe	Gas pipe	mm		φ9.52					φ12.70				φ15.88
Dimensions	Condensate drain pipe	mm						DN25					
Dimensio	on of filter	mm			18.5×7	00×200			18	18.5×11	40×200		
	TMDP-ACBNN 3-DC motor)	IN	022	025	028	032	036	040	045	050	056	063	071
Nominal coo	ling capacity	kW	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1
Nominal hea	ting capacity	kW	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0
Power	supply	V/N/Hz						220/1/50					
Motor	r type	-						DC motor					
Nominal in	put power	W	40	40	40	45	45	50	50	50	50	60	60
Dimensions	s (WxDxH)	mm		7	00×450×20	00			920×4	50×200		1140×4	50×200
	High		500									920	1000
			300	500	500	560	560	750	750	750	750	920	1000
Air flow	Medium	m³/h	370	370	500 370	560 430	560 430	750 620	750 620	750 620	620	710	800
Air flow	Medium Low	m³/h											
Air flow ESP (adj	Low	m³/h Pa	370	370	370	430	430	620	620	620	620	710	800
ESP (adj	Low	Pa	370	370	370	430 360	430	620 550	620	620 550	620	710	800
ESP (adj	Low justable) e level (H/M/L)	Pa	370	370 310	370	430 360	430 360	620 550	620 550	620 550	620	710 590	800 680
ESP (adj Sound pressure Wei	Low justable) e level (H/M/L)	Pa dB(A)	370 310	370 310 33/28/23	370 310	430 360 33/2	430 360 8/24	620 550 10(30)	620 550 35/3	620 550 0/28 21.5	620 550	710 590 36/32/28	800 680 37/32/29
ESP (adj Sound pressure Wei	Low justable) e level (H/M/L) ight	Pa dB(A) kg	370 310	370 310 33/28/23 17.5	370 310	430 360 33/2	430 360 8/24	620 550 10(30)	620 550 35/3 21.5	620 550 0/28 21.5	620 550	710 590 36/32/28	800 680 37/32/29
ESP (adj Sound pressure Wei	Low justable) e level (H/M/L) ight Liquid pipe	Pa dB(A) kg mm	370 310	370 310 33/28/23 17.5 φ6.35	370 310	430 360 33/2	430 360 8/24	620 550 10(30)	620 550 35/3 21.5 φ9	620 550 0/28 21.5	620 550	710 590 36/32/28	800 680 37/32/29

► HYplus IDU

Model	TMDP-AEBNN (TP06)	IN	022	025	028 03	32 036	040	045	050	056
Nominal cod	oling capacity	kW	2.2	2.5	2.8 3	.2 3.6	4.0	4.5	5.0	5.6
Nominal hea	ating capacity	kW	2.5	2.8	3.2 3	.6 4.0	4.5	5.0	5.6	6.3
Power	supply	V/N/Hz				220/1/	/50			
Moto	r type	-				DC mo	otor			
Nominal in	nput power	W	35	35	35 4	0 40	40	45	45	45
Dimension	ıs (WxDxH)	mm			920×450×200)	<u> </u>		1140×450×20	00
Air flow	High	m³/h	450	450	150 50	00 500	500	650	650	650
ESP (ac	ljustable)	Pa	<u> </u>			10(0~	30)			
	ure level (H/M/ _)	dB(A)	3	3/28/23		33/28	/24		35/30/28	
We	eight	kg			21.5				26.5	
	Liquid pipe	mm				φ6.3	5			
Connecting pipe	Gas pipe	mm				φ12.7	70			
Dimensions	Condensate	mm				DN2	5			
D'	drain pipe				40000000				1011.1000	10
Dimensio	on of filter	mm			42×920×200				42×1140×20	10
Model	TMDP-AEBNN	IN								
	(TP04)		071	080	090	100	112	125	140	160
Nominal cod	oling capacity	kW	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0
Nominal hea	ating capacity	kW	8.0	9.0	10.0	11.2	12.5	14.0	16.0	18.0
Power	supply	V/N/Hz				220/1	/50			
Moto	r type	-				DC mo	otor			
Nominal in	nput power	W	100	130	130	160	160	160	200	200
Dimension	ıs (WxDxH)	mm		1200×680×270					·	
Air flow	High	m³/h	1000	1300	1300	1600	1600	1600	2000	2000
ESP (ac	ljustable)	Pa		<u> </u>		10(0~	50)	<u>.</u>		
	ure level (H/M/ _)	dB(A)	37/32/29	40/36/33	40/36/33	43/37/33	43/37/33	43/37/33	43/35/27	43/35/27
We	eight	kg	34.5	34.5	34.5	37	37	37	38	38
	Liquid pipe	mm				φ9.5	2			
Connecting pipe	Gas pipe	mm				φ15.8	88			
Dimensions	Condensate	mm				DN2	:5			
Dimensi	drain pipe on of filter	mm				150×120	0x270			
Dillicitor		111111				100.120	0210			
	L.I. TMDD TD0		0744500000	00045511111	00045511111	400 A EDNININ	4404 EDNININ	405455515151	4 40 4 EDNININ	400 A E DAINIA
	lel TMDP-TP0		+			100AEBNNN				
	ooling capacity		7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0
	eating capacity		8.0	9.0	10.0	11.2	12.5	14.0	16.0	18.0
	er supply	V/N/Hz	<u>'</u>			220/				
	tor type	-				DC n				
	input power	W	100	130	130	160	160	160	200	200
	ons (WxDxH)	mm				1200×6				
Air flow	High	m³/h	1000 1300 1300 1600 1600					1600	2000	2000
						10(0				
	adjustable)	Pa	05:22:2	40:55:5	40	40.00				43/35/27
Sound press	ure level (H/M/	L) dB(A)	37/32/29	40/36/33	40/36/33	43/37/33	43/37/33	43/37/33	43/35/27	
Sound press	ure level (H/M/	L) dB(A)	37/32/29 34.5	40/36/33 34.5	40/36/33 34.5	37	37	43/37/33	43/35/27	38
Sound press	veight Liquid pipe	L) dB(A) kg mm				37 φ9.	.52			
Sound press W Connecting pipe	ure level (H/M/ /eight Liquid pipe Gas pipe	L) dB(A) kg mm mm				37 φ9.	37			
Sound press W Connecting	veight Liquid pipe Gas pipe	L) dB(A) kg mm mm				37 φ9. φ15	.52			



Intelligent Control

Provide you with convenient services



Wireless Remote Controller

Mode Setting: Cool/Heat/Dry/Fan/Auto

Scheduled power-on/off Temperature setting

Fan speed setting: High/Medium/Low/Auto

Eco/Quiet/Sleep functions

Vertical swing/Horizontal swing



TMC311

Wired Remote Controllers

86×86mm panel, LED

Error reporting

ON/OFF, swing, memory function, etc.

Cool/Heat/Auto/Fan/Dry modes

Temperature setting, timer power-on/-off

Touch keys

Filter cleaning reminder

Background light



TMC315/TE300

Central Controllers

8-inch colored touchscreen

Supports centralized control of a maximum of 64 IDUs in 8 systems

Setting, management and monitoring (set temperature, air flow) of IDU

Accessible to IDU/ODU network

Schedul control by week/month/year

Unified management of IDU groups

Statistics of changes in running statuses of all devices in a certain time period.

Fault display, parameter status query, device query, and permission management

Display of indoor environmental indicators (IDU needs to be equipped with sensor nodes)





OCPAD

Building Management System (BMS)

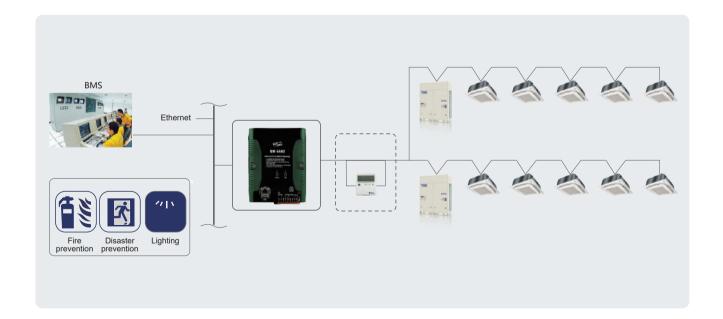
- TIMS adopts multiple BMSs to access to the BAS for comprehensively auto control.
- TICA BMS supports access via ModBus. Up to 1024 IDUs and 16 ODUs can be connected.



Basic control functions

- AC on/off, operation, and monitoring the operation status
- 2 Monitoring the IDU error code
- 3 Monitoring and setting the IDU temperature
- 4 Monitoring and switching the operating mode
- 5 Remote controller lock function
- 6 Service monitoring
- 7 Auto running

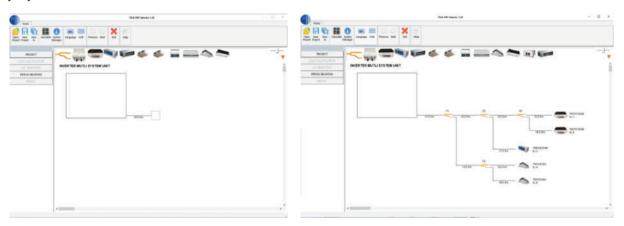
- 8 Mode lock function, user can lock the running mode of indoor unit
- 9 Free management by group
- 10 Complete schedule management
- 11 Historical data records
- Schedule control by week/month/year
- 13 Centralized control function
- 14 Interlock control (fire alarm, door lock, fault, etc.)



Intelligent software

Selection software

TICA dedicated to provide the best HVAC engineering support and solutions focused on effectively designed, built, supervised and maintained throughout the lifecycle, providing our customers a faster, easier, and a more accurate way in everyday duties.



▶ Management software

The IDUs are connected to a computer by the data acquisition module, so that full centralized control can be implemented on this management software. The control function is very powerful, and operations are simple and clear. One set of software supports up to 32 systems and 2048 IDUs for large-scale centralized control. The control signal of data acquisition module can reach up to 1200 m.

- Free management by group
- · Complete schedule management
- Historical data records
- · Schedule control by week/month/year
- · Centralized control function
- Centralized control over air conditioning systems in multiple buildings at the same place
- Permission setting
- Temperature setting, timer power-on/-off
- Error reporting
- Interlocking control
- Remote management





Branch Pipe

Madal	Annogranae	Dimension							
Model	Appearance	Gas side joints	Liquid side joints						
TBP4022TA		ID19.05 ID15.88 OD15.88 ID12.7 ID19.05 ID15.88 OD15.88 ID12.7 ID22.23	1D9.52 DB.35 1D9.52 DB.35 1D9.52 DB.35 1D9.52 DB.35 1D6.35						
TBP4033TA		1D22.23 OD22.23 ID16.05 ID15.88 1D22.23 OD22.23 ID16.05 ID16.89 264	ID12.7 ID9.52 ID6.35						
TBP4072TA		ID28.58	ID15.88 OD15.88 ID12.7 ID22.23 ID19.05 ID15.88 OD15.88 35 30 30 35 30 30 35 30 30 30 30 30 30 30 30 30 30 30 30 30						
TBP4073TA	7	ID38.1 OD38.1 40 35 30 Q	ID15.88 OD15.88 ID12.7 ID22.23 ID19.05 ID15.88 OD15.88 35 30 30 35 30 30 35 30 30 35 30 30 35 30 30 35 30 30 30 30 30 30 30 30 30 30 30 30 30						
TBP4090TA		23 OD28.6 35 35 35 SE	ID15.88 OD15.88 ID12.7 ID22.23 ID19.05 OD15.88 35 30 35 ID15.88 OD15.88 ID12.7						
		23 OD28.6 35 35 35 00 00 1028.6 ID25.4 ID22.2	ID19.05 ID22.23 ID15.88 OD15.88 ID15.88 OD15.88 ID15.88 OD15.88 ID12.7						
TBP4135TA		1038.1 OD38.1 40 35 39 9 1038.1 ID34.9 ID31.75	ID22.2 OD22.2 ID19.05 ID15.88 ID22.2 OD22.2 35 30 35 66						



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Note: Due to constant improvement and innovation of TICA's products, the product models, specifications and parameters contained in this document are subject to change without prior notice.