

Commercial Air Conditioners 2021/2022

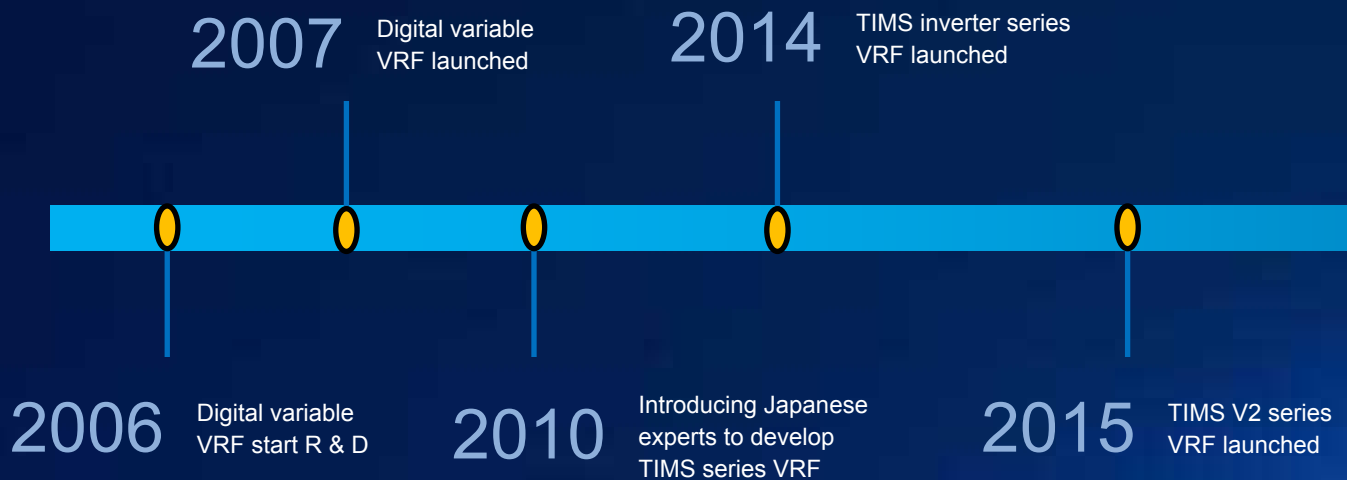


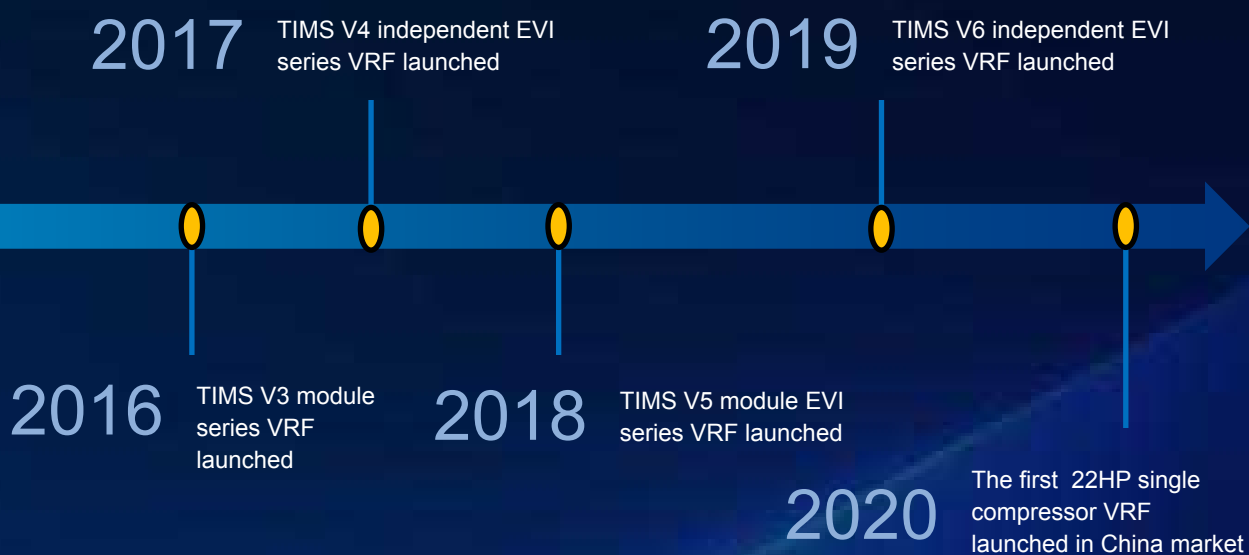
TIMS V6

Healthy VRF

VRF Development Process

TIMS





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

Argentina Puertos Offices



UB Freight office building



► Hotels & Shopping Malls

Increase your business, not your bills

Hotels

Cambodia integrating hotel



Belarus Capital Palace



Shopping malls

Indonesia Embassy SCBD



Indonesia The Park Semarang mall



► Factories

One for Every Factory



Indonesia Sinar Meadow factory



Vietnam Bitland factory

► Other Applications

Meeting all expectations

Hospitals



Schools



Durban University of Technology

Airports

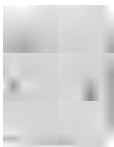








Hangzhou Xiaoshan International Airport

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Outdoor Uint Lineup

HP			3	4	4.5	5	6	6.5	7	8	9	10	12	14
Air cooled - Heat pump	Independent TIMS-CSA									●	●	●	●	●
	Modular TIMS-AXA									●		●	●	
	Side discharge TIMS-CSREA									●		●	●	
	Top discharge TIMS-CSRYA									●		●	●	●
	Mini VRF- Classical TIMS-AHR(A)		●	●	●	●	●	●	●	●	●			
	Mini VRF-High efficiency TIMS-AHT(A)			●		●	●	●	●					
Air cooled - Cooling only	TIMS-CXC									●		●	●	●

- Single unit
- Modular units

Outdoor Unit Lineup

HP			16	18	20	22	24	26	28	30	32	34	36-48	48-96
Air cooled - Heat pump	Independent TIMS-CSA		●	●	●	●	●	●	●	●	●	●		
	Modular TIMS-AXA		●	●	●	●	●	●	●	●	●	●	●	●
	Side discharge TIMS-CSREA													
	Top discharge TIMS-CSRYA		●											
	Mini VRF- Classical TIMS-AHR(A)													
	Mini VRF-High efficiency TIMS-AHT(A)													
Air cooled - Cooling only	TIMS-CXC		●	●	●	●	●	●	●	●	●	●	●	

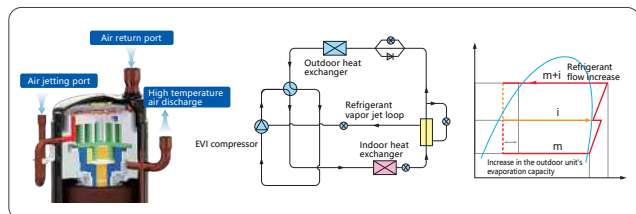
● Single unit

● Modular units

High Efficiency

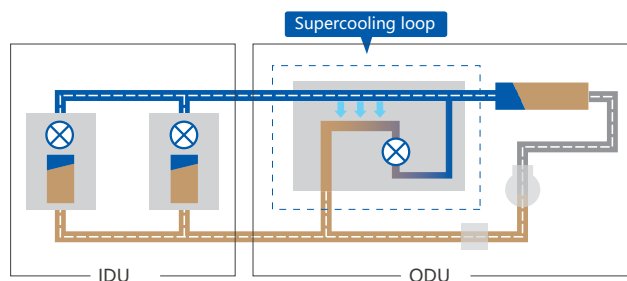
► High Efficiency Enhanced Vapor Injection(EVI)Compressor

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



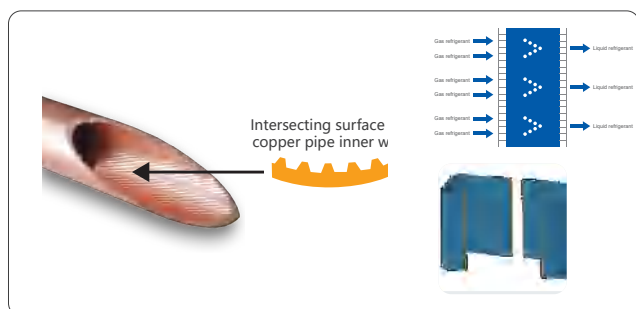
► Two Stage Subcooling

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

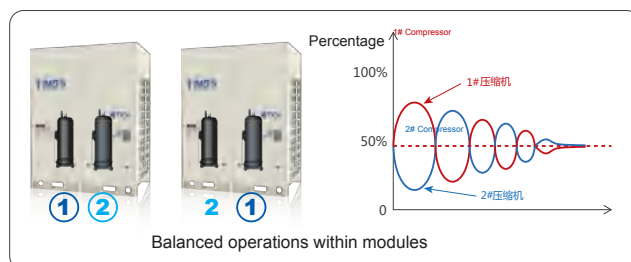
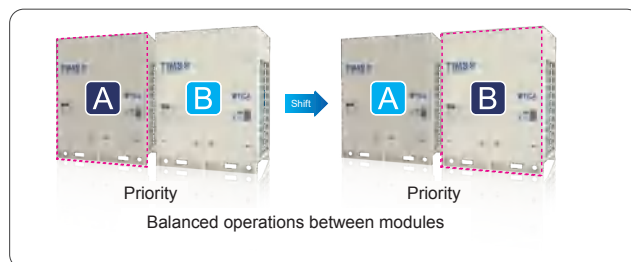
- High efficiency copper pipe with internal thread
- Corrugated fins with openings ,increasing heat exchanging area 15%.
- Specially designed TWO-TO-ONE refrigerant loop, decreasing refrigerant flow resistance.
- Double C type heat exchanger with 6 sides heat exchanging.



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.



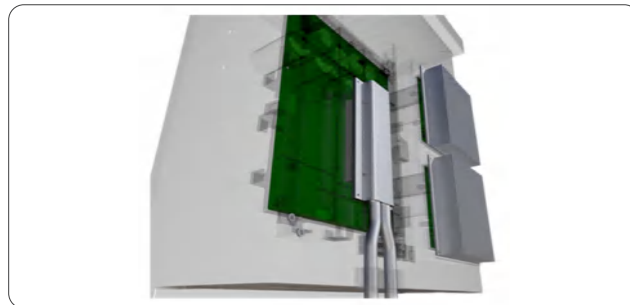
► 8-Stage Oil Return

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.



● Fan back-up

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



● 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.



Emergency stop



Phase sequence protection



Safe ground protection



Power voltage protection



Current protection



Compressor overheat protection



Inverter EMI protection



Temperature protection

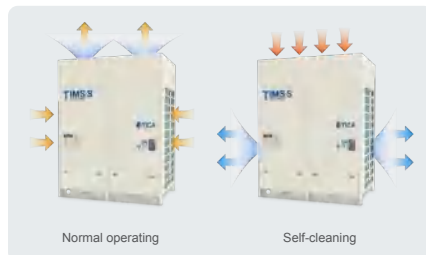
► Auto Snow-blowing Function

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



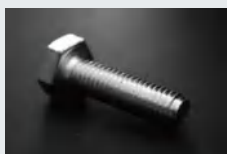
► Dust-clean Function

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

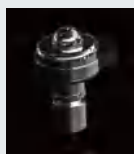


► Anti-corrosion Protection

- 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.



Screws / bolts / gaskets
500h of neutral salt mist



Fan motor
Standard :300h of neutral salt mist
Special: 500h of neutral salt mist



Painted sheet metal 1000h of neutral salt mist

Thickened sheet metal, advanced anti-corrosion spray

► Wide Operation Range

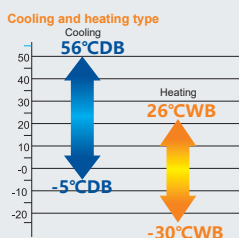
Wide Capacity Range

TICA VRF has an extensive capacity ranging from 3HP to 96HP, meeting all customer requirements from small to large buildings.

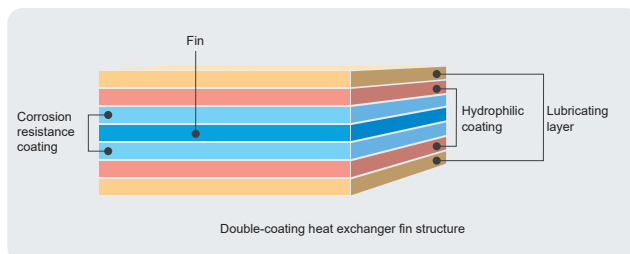


Wide Temperature Range

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 frost-thrown 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.



Anti-UV aging test report
of CVC product panel

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

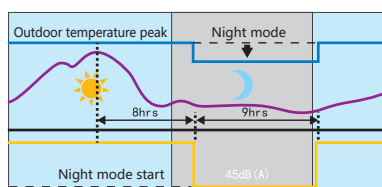
► Advanced Silent Technology

● 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
- 5 Omni-directional acoustical enclosure
- 6 New guide ring
- 7 750mm large fan
- 8 Refrigerant flow noise reduction
- 9 Low noise priority mode
- 10 Three silent modes: Smart/Night/Forced Silent
- 11 Compressor jet loop noise reduction
- 12 180° sine wave control for quiet operation of compressor
- 13 3D simulation pipe vibration reduction
- 14 Streamlined air outlet grille
- 15 ODU casing anti-vibration design
- 16 Fan anti-vibration with CFD

● 3 silent modes

Night silent mode
Forced silent mode
Smart silent mode



► Multiple Priority Modes

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



► Intelligent Defrosting Technology

● TCC defrosting

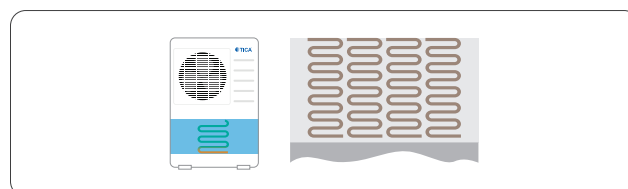
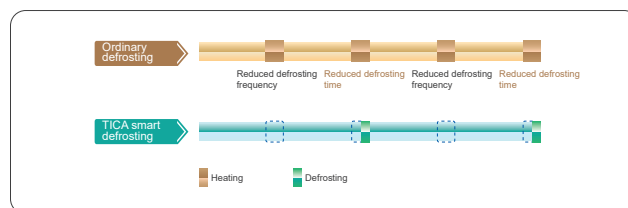
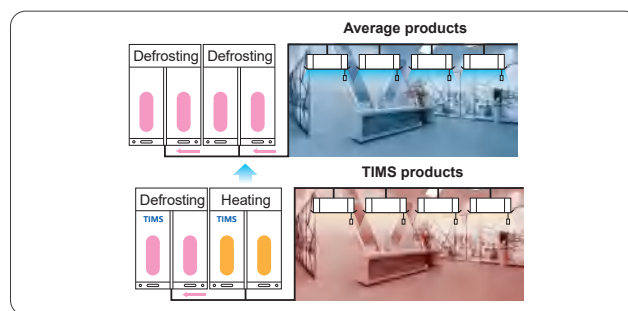
The innovative TCC defrosting technology of TICA adopts the non-stop method for defrosting. Modular units do not need to switch to the cooling mode for defrosting in winter. (patent No.: ZL 2013 2 0344961.5)

● 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

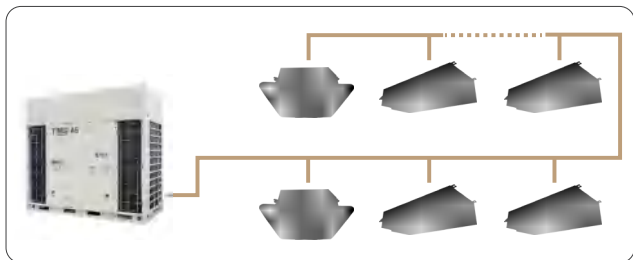
The ice water mixture at the bottom of unit can be completed removed during defrosting in heating mode in winter, so as to avoid impact on the heating capacity, improve the unit stability, and shorten the defrosting duration by 30%.



Easy Installation And Service

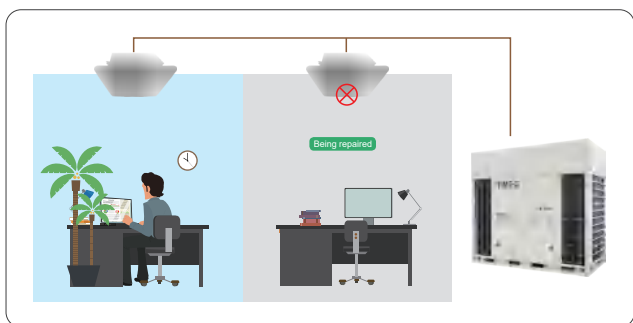
► Auto Addressing

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 Function

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.



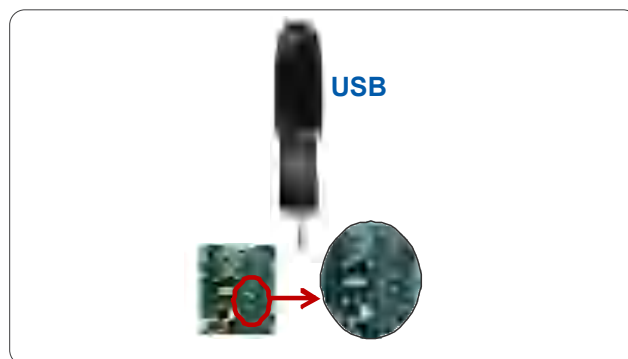
► Four-Way Piping Connection

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



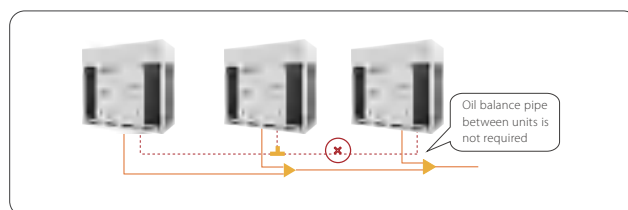
► Black Box Technology

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 after-sales maintenance and debugging. Program upgrade can be intelligently completed by directly inputting the control program to the black box through relevant ports.



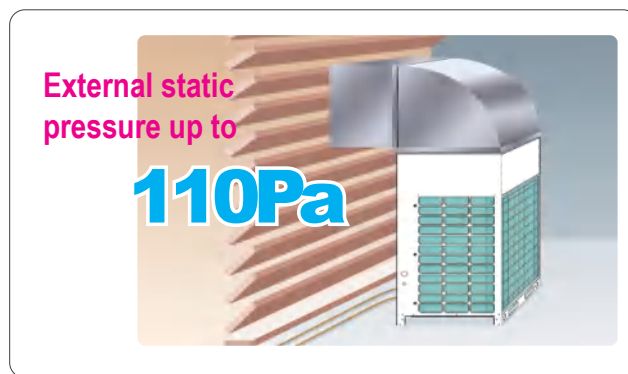
► Oil Balance Pipe Not Required

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



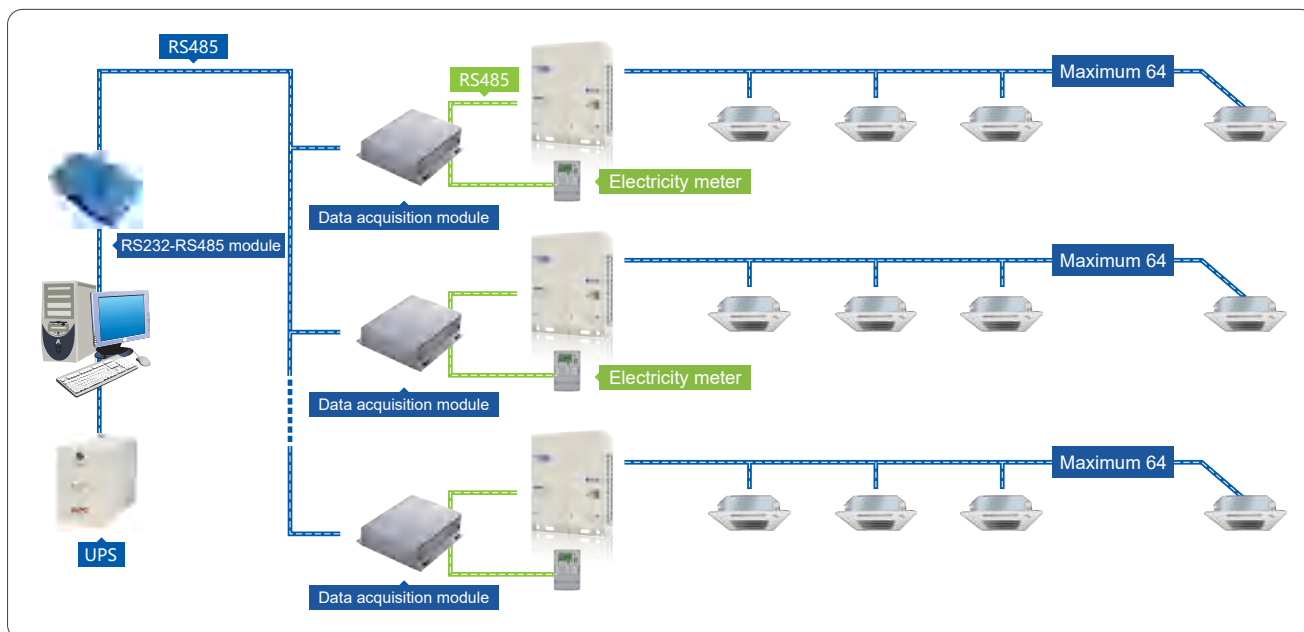
► High External Static Pressure

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.



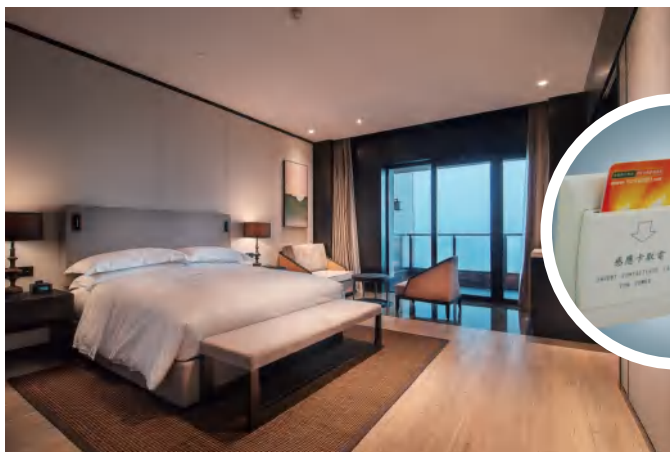
► Household-Based Charging System

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.



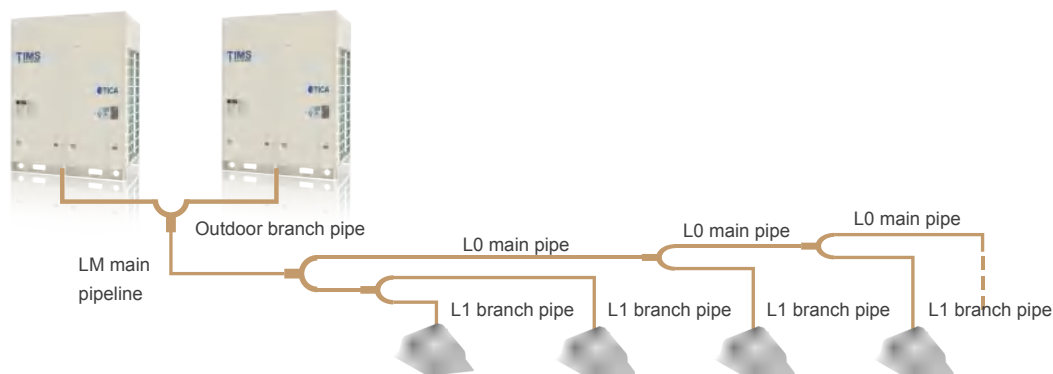
► Intelligent Interlocking For Hotels

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
$X < 16.8$	$\Phi 9.52$	$\Phi 15.88$	TBP4022TA
$16.8 \leq X < 22.5$	$\Phi 9.52$	$\Phi 19.05$	TBP4022TA
$22.5 \leq X < 33.0$	$\Phi 9.52$	$\Phi 22.23$	TBP4033TA
$33.0 \leq X < 46.0$	$\Phi 12.7$	$\Phi 25.40$	TBP4072TA
$46.0 \leq X < 67.0$	$\Phi 15.88$	$\Phi 28.58$	TBP4072TA
$67.0 \leq X < 86.0$	$\Phi 19.05$	$\Phi 31.75$	TBP4073TA
$86.0 \leq X < 114.0$	$\Phi 19.05$	$\Phi 34.92$	TBP4073TA
$114.0 \leq X < 140.0$	$\Phi 19.05$	$\Phi 38.10$	TBP4073TA
$X \geq 140.0$	$\Phi 19.05$	$\Phi 41.30$	TBP4073TA

► Main pipeline design for independent series

Total Capacity (kW) of Downstream IDUs	Liquid pipe specifications (mm)	Air pipe specifications (mm)	Branch pipe selection
$X < 16.8$	$\Phi 9.52$	$\Phi 15.88$	TBP4022TA
$16.8 \leq X < 22.5$	$\Phi 9.52$	$\Phi 19.05$	TBP4022TA
$22.5 \leq X < 33.0$	$\Phi 9.52$	$\Phi 22.23$	TBP4033TA
$33.0 \leq X < 46.0$	$\Phi 12.70$	$\Phi 25.40$	TBP4072TA
$46.0 \leq X < 67.0$	$\Phi 15.88$	$\Phi 28.58$	TBP4072TA
$67.0 \leq X < 86.0$	$\Phi 19.05$	$\Phi 31.75$	TBP4073TA
$X \geq 86.0$	$\Phi 19.05$	$\Phi 31.75$	TBP4073TA



Indoor Units
VRF indoor units



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 V6 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 96HP.

8/10/12HP

(single compressor
single fan)



14/16/18HP

(single compressor
single fan)



20/22HP

(single compressor
dual fans)



24/26/28/30/32/34HP

(dual compressors
dual fans)



16-64HP

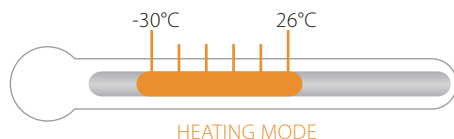
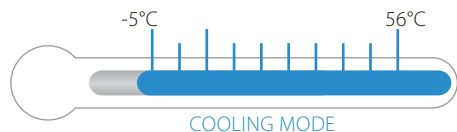


24-96HP



► Wide Operating Temperature Range

TIMS V6 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



Piping length	Capability (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.

Modular full inverter ODUs

Model			TIMS080AXA	TIMS100AXA	TIMS120AXA	TIMS140AXA	TIMS160AXA
HP			8	10	12	14	16
Combination type			-	-	-	-	-
Power supply		/	380-415 / 3 / 50 (60Hz)				
*1 Cooling	Capacity	kW	25.2	28.0	33.5	40.0	45.0
	Power input	kW	5.5	6.8	8.7	10.3	12.2
	EER	/	4.6	4.1	3.9	3.9	3.7
*2 Heating	Capacity	kW	27.0	31.5	37.5	45.0	50.0
	Power input	kW	5.4	6.6	8.3	10.3	12.2
	COP	/	5.0	4.8	4.5	4.4	4.1
Connectable indoor unit	Total capacity	kW	50%-130% of outdoor unit capacity				
Compressors	Type	/	DC Inverter				
	Quantity	/	1	1	1	1	1
Fan motors	Type	/	DC				
	Quantity	/	1	1	1	1	1
Airflow rate		m³/h	12000			13980	
Net dimensions (W*D*H)		mm	930×860×1690			1240×860×1690	
Packed dimensions (W*D*H)		mm	990×920×1750			1300×920×1750	
Sound pressure level		dB (A)	45 ~ 56		45 ~ 57	45 ~ 59	45~60
Pipe connections	Liquid pipe	mm	φ9.52		φ12.70	φ12.70	
	Gas pipe	mm	φ22.23		φ25.40	φ28.58	
Net weight		kg	225	225	225	290	290
Gross weight		kg	240	240	240	305	305
Refrigerant	Type	/	R410A				
	Factory charge	kg	8	8	10	12	12
Operating temperature range	Cooling	°C	-5~56°C				
	Heating	°C	-30~26°C				
* 3 Maximum fuse current	MFA	A	20.0	25.0	32.0	40.0	40.0
* 3 Minimum line current	MCA	A	17.4	21.7	25.8	33.0	35.0

Model			TIMS180AXA	TIMS200AXAT	TIMS200AXA	TIMS220AXA	TIMS240AXA
HP			18	20	20	22	24
Combination type			-	-	-	-	-
Power supply		/	380-415 / 3 / 50 (60Hz)				
*1 Cooling	Capacity	kW	50.0	56.0	56.0	61.5	68.0
	Power input	kW	13.9	15.8	17.0	18.2	19.0
	EER	/	3.6	3.6	3.3	3.4	3.6
*2 Heating	Capacity	kW	56.0	63.0	63.0	69.0	75.0
	Power input	kW	13.7	15.5	15.7	17.6	18.0
	COP	/	4.1	4.1	4.0	3.9	4.2
Connectable indoor unit	Total capacity	kW	50%-130% of outdoor unit capacity				
Compressors	Type	/	DC Inverter				
	Quantity	/	1	1	2	2	2
Fan motors	Type	/	DC				
	Quantity	/	1	2	2	2	2
Airflow rate		m³/h	13980	25800			
Net dimensions (W*D*H)		mm	1240×860×1690	1500×860×1690			
Packed dimensions (W*D*H)		mm	1300×920×1750	1560×920×1750			
Sound pressure level		dB (A)	45~61	45~62		62	62
Pipe connections	Liquid pipe	mm	φ12.70	φ15.88			
	Gas pipe	mm	φ28.58	φ28.58			
Net weight		kg	290	345	380	380	380
Gross weight		kg	305	360	395	395	395
Refrigerant	Type	/	R410A				
	Factory charge	kg	12	16	16	16	16
Operating temperature range	Cooling	°C	-5~56°C				
	Heating	°C	-30~26°C				
* 3 Maximum fuse current	MFA	A	50.0	50.0	50.0	63.0	63.0
* 3 Minimum line current	MCA	A	39.1	43.5	43.5	47.5	52.7

Notes:

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

Modular full inverter ODUs

Model			TIMS260AXA	TIMS280AXA	TIMS300AXA	TIMS320AXA
HP			26	28	30	32
Combination type			-	-	-	-
Power supply			380-415 / 3 / 50 (60Hz)			
*1 Cooling	Capacity	kW	73.0	78.5	85.0	90.0
	Power input	kW	20.1	21.8	23.0	25.2
	EER	/	3.6	3.6	3.7	3.6
*2 Heating	Capacity	kW	81.5	87.5	95.0	100.0
	Power input	kW	19.4	21.3	23.5	24.9
	COP	/	4.2	4.1	4.0	4.0
Connectable indoor unit	Total capacity	kW	50%-130% of outdoor unit capacity			
Compressors	Type	/	DC Inverter			
	Quantity	/	2	2	2	2
Fan motors	Type	/	DC			
	Quantity	/	2	2	2	2
Airflow rate		m³/h	27000			
Net dimensions (W*D*H)		mm	1900×860×1690			
Packed dimensions (W*D*H)		mm	1960×920×1750			
Sound pressure level		dB (A)	49~64		49~65	
Pipe connections	Liquid pipe	mm	φ19.05			
	Gas pipe	mm	φ31.75			
Net weight		kg	460	470	470	470
Gross weight		kg	475	485	485	485
Refrigerant	Type	/	R410A			
	Factory charge	kg	18	22	22	22
Operating temperature range	Cooling	°C	-5~56°C			
	Heating	°C	-30~26°C			
* 3 Maximum fuse current		MFA	80.0	80.0	80.0	80.0
* 3 Minimum line current		MCA	66.0	68.0	70.1	72.0

Model			TIMS340AXA	TIMS340AXA	TIMS360AXA	TIMS380AXA
HP			34	34	36	38
Combination type			-	18+16	18+18	18+20
Power supply		/	380-415 / 3 / 50 (60Hz)			
*1 Cooling	Capacity	kW	95.0	95.0	100.0	106.0
	Power input	kW	25.8	25.8	27.8	29.7
	EER	/	3.7	3.7	3.6	3.6
*2 Heating	Capacity	kW	106.0	106.0	112.0	119.0
	Power input	kW	25.6	25.6	27.4	29.2
	COP	/	4.1	4.1	4.1	4.1
Connectable indoor unit	Total capacity	kW	50%-130% of outdoor unit capacity			
Compressors	Type	/	DC Inverter			
	Quantity	/	2	2	2	2
Fan motors	Type	/	DC			
	Quantity	/	2	2	2	3
Airflow rate		m³/h	27000	13980+13980		13980+25800
Net dimensions (W*D*H)		mm	1900×860×1690	(1240×860×1690)×2		1240×860×1690+1500×860×1690
Packed dimensions (W*D*H)		mm	1960×920×1750	(1300×920×1750)×2		1300×920×1750+1560×920×1750
Sound pressure level		dB (A)	49~65		48~66	
Pipe connections	Liquid pipe	mm	φ19.05			
	Gas pipe	mm	φ34.92			
Net weight		kg	475	290+290	290+290	290+345
Gross weight		kg	490	305+305	305+305	305+360
Refrigerant	Type	/	R410A			
	Factory charge	kg	23	12+12	12+12	12+16
Operating temperature range	Cooling	°C	-5~56°C			
	Heating	°C	-30~26°C			
* 3 Maximum fuse current	MFA	A	90.0	90.0	100.0	100.0
* 3 Minimum line current	MCA	A	74.1	74.1	78.2	82.6

Notes:

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

Modular full inverter ODUs

Model			TIMS400AXA	TIMS420AXA	TIMS440AXA	TIMS460AXA
HP			40	42	44	46
Combination type			20+20	22+20 (AXA)	22+22	24+22
Power supply			380-415 / 3 / 50 (60Hz)			
*1 Cooling	Capacity	kW	112.0	117.5	123.0	129.5
	Power input	kW	31.5	35.2	36.4	37.2
	EER	/	3.6	3.3	3.4	3.5
*2 Heating	Capacity	kW	126.0	132.0	138.0	144.0
	Power input	kW	30.0	33.4	35.2	35.6
	COP	/	4.2	4.0	3.9	4.0
Connectable indoor unit	Total capacity	kW	50%-130% of outdoor unit capacity			
Compressors	Type	/	DC Inverter			
	Quantity	/	2	4	4	4
Fan motors	Type	/	DC			
	Quantity	/	4	4	4	4
Airflow rate		m³/h	25800+25800			
Net dimensions (W*D*H)		mm	(1500×860×1690)×2			
Packed dimensions (W*D*H)		mm	(1560×920×1750)×2			
Sound pressure level		dB (A)	48~66		50~67	
Pipe connections	Liquid pipe	mm	φ19.05			
	Gas pipe	mm	φ38.10			
Net weight		kg	345+345	380+380	380+380	380+380
Gross weight		kg	360+360	395+395	395+395	395+395
Refrigerant	Type	/	R410A			
	Factory charge	kg	16+16			
Operating temperature range	Cooling	°C	-5~56°C			
	Heating	°C	-30~26°C			
* 3 Maximum fuse current	MFA	A	100.0	113.0	126.0	126.0
* 3 Minimum line current	MCA	A	87.0	91.0	95.0	100.2

Model			TIMS480AXA	TIMS500AXA	TIMS520AXA
HP			48	50	52
Combination type			24+24	22+28	24+28
Power supply			380-415 / 3 / 50 (60Hz)		
*1 Cooling	Capacity	kW	136.0	140.0	146.5
	Power input	kW	38.0	40.0	40.8
	EER	/	3.6	3.5	3.6
*2 Heating	Capacity	kW	150.0	156.5	162.5
	Power input	kW	36.0	38.9	39.3
	COP	/	4.2	4.0	4.1
Connectable indoor unit	Total capacity	kW	50%-130% of outdoor unit capacity		
Compressors	Type	/	DC Inverter		
	Quantity	/	4	4	4
Fan motors	Type	/	DC		
	Quantity	/	4	4	4
Airflow rate		m³/h	25800+25800	25800+27000	
Net dimensions (W*D*H)		mm	(1500×860×1690)×2	1500×860×1690+1900×860×1690	
Packed dimensions (W*D*H)		mm	(1560×920×1750)×2	1560×920×1750+1960×920×1750	
Sound pressure level		dB (A)	50~67		
Pipe connections	Liquid pipe	mm	φ19.05	φ22.23	
	Gas pipe	mm	φ38.10	φ41.30	
Net weight		kg	380+380	380+470	
Gross weight		kg	395+395	395+485	
Refrigerant	Type	/	R410A		
	Factory charge	kg	16+16	16+22	
Operating temperature range	Cooling	°C	-5~56°C		
	Heating	°C	-30~26°C		
* 3 Maximum fuse current	MFA	A	126.0	143.0	143.0
* 3 Minimum line current	MCA	A	105.4	115.5	120.7

Notes:

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

Modular full inverter ODU

Model			TIMS540AXA	TIMS560AXA	TIMS580AXA
HP			54	56	58
Combination type			24+30	28+28	28+30
Power supply			380-415 / 3 / 50 (60Hz)		
*1 Cooling	Capacity	kW	153.0	157.0	163.5
	Power input	kW	42.0	43.6	44.8
	EER	/	3.6	3.6	3.7
*2 Heating	Capacity	kW	170.0	175.0	182.5
	Power input	kW	41.5	42.6	44.8
	COP	/	4.1	4.1	4.1
Connectable indoor unit	Total capacity	kW	50%-130% of outdoor unit capacity		
Compressors	Type	/	DC Inverter		
	Quantity	/	4	4	4
Fan motors	Type	/	DC		
	Quantity	/	4	4	4
Airflow rate		m³/h	25800+27000	27000+27000	
Net dimensions (W*D*H)		mm	1500×860×1690+1900×860×1690	(1900×860×1690)×2	
Packed dimensions (W*D*H)		mm	1560×920×1750+1960×920×1750	(1960×920×1750)×2	
Sound pressure level		dB (A)	50~67	50~68	
Pipe connections	Liquid pipe	mm	φ22.23		
	Gas pipe	mm	φ41.30		
Net weight		kg	380+470	470+470	470+470
Gross weight		kg	395+485	485+485	485+485
Refrigerant	Type	/	R410A		
	Factory charge	kg	16+22	22+22	22+22
Operating temperature range	Cooling	°C	-5~56°C		
	Heating	°C	-30~26°C		
* 3 Maximum fuse current	MFA	A	143.0	160.0	160.0
* 3 Minimum line current	MCA	A	122.8	136.0	138.1

Model			TIMS600AXA	TIMS620AXA	TIMS640AXA
HP			60	62	64
Combination type			30+30	30+32	32+32
Power supply			380-415 / 3 / 50 (60Hz)		
*1 Cooling	Capacity	kW	170.0	175.0	180.0
	Power input	kW	45.9	48.2	50.4
	EER	/	3.7	3.6	3.6
*2 Heating	Capacity	kW	190.0	195.0	200.0
	Power input	kW	47.0	48.4	49.8
	COP	/	4.0	4.0	4.0
Connectable indoor unit	Total capacity	kW	50%-130% of outdoor unit capacity		
Compressors	Type	/	DC Inverter		
	Quantity	/	4	4	4
Fan motors	Type	/	DC		
	Quantity	/	4	4	4
Airflow rate		m³/h	27000+27000		
Net dimensions (W*D*H)		mm	(1900×860×1690)×2		
Packed dimensions (W*D*H)		mm	(1960×920×1750)×2		
Sound pressure level		dB (A)	50~68		
Pipe connections	Liquid pipe	mm	φ22.23		
	Gas pipe	mm	φ41.30		
Net weight		kg	470+470	470+470	470+470
Gross weight		kg	485+485	485+485	485+485
Refrigerant	Type	/	R410A		
	Factory charge	kg	22+22	22+22	22+22
Operating temperature range	Cooling	°C	-5~56°C		
	Heating	°C	-30~26°C		
* 3 Maximum fuse current	MFA	A	160.0	160.0	160.0
* 3 Minimum line current	MCA	A	140.2	142.1	144.0

Notes:

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

Modular full inverter ODUs

Model			TIMS660AXA	TIMS680AXA	TIMS700AXA	TIMS720AXA
HP			66	68	70	72
Combination type			32+34	34+34	22+24+24	24+24+24
Power supply			380-415 / 3 / 50 (60Hz)			
*1 Cooling	Capacity	kW	185.0	190.0	197.5	204.0
	Power input	kW	51.0	51.5	56.2	57.0
	EER	/	3.6	3.7	3.5	3.6
*2 Heating	Capacity	kW	206.0	212.0	219.0	225.0
	Power input	kW	50.5	51.2	53.6	54.0
	COP	/	4.1	4.1	4.1	4.2
Connectable indoor unit	Total capacity	kW	50%-130% of outdoor unit capacity			
Compressors	Type	/	DC Inverter			
	Quantity	/	4	4	6	6
Fan motors	Type	/	DC			
	Quantity	/	4	4	6	6
Airflow rate		m³/h	27000×2		25800×3	
Net dimensions (W*D*H)		mm	(1900×860×1690)×2		(1500×860×1690)×3	
Packed dimensions (W*D*H)		mm	(1960×920×1750)×2		(1560×920×1750)×3	
Sound pressure level		dB (A)	50~68			
Pipe connections	Liquid pipe	mm	φ22.23			
	Gas pipe	mm	φ41.3		φ44.5	
Net weight		kg	470+475	475+475	380×3	
Gross weight		kg	485+490	490+490	395×3	
Refrigerant	Type	/	R410A			
	Factory charge	kg	22+23	23+23	16+16+16	16+16+16
Operating temperature range	Cooling	°C	-5~56°C			
	Heating	°C	-30~26°C			
* 3 Maximum fuse current	MFA	A	170.0	180.0	189.0	189.0
* 3 Minimum line current	MCA	A	146.1	148.2	152.9	158.1

Model			TIMS740AXA	TIMS760AXA	TIMS780AXA
HP			74	76	78
Combination type			24+24+26	24+26+26	26+26+26
Power supply			380-415 / 3 / 50 (60Hz)		
*1 Cooling	Capacity	kW	209.0	214.0	219.0
	Power input	kW	58.1	59.2	60.4
	EER	/	3.6	3.6	3.6
*2 Heating	Capacity	kW	231.5	238.0	244.5
	Power input	kW	55.4	56.8	58.3
	COP	/	4.2	4.2	4.2
Connectable indoor unit	Total capacity	kW	50%-130% of outdoor unit capacity		
Compressors	Type	/	DC Inverter		
	Quantity	/	6	6	6
Fan motors	Type	/	DC		
	Quantity	/	6	6	6
Airflow rate		m³/h	25800×2+27000	25800+27000×2	27000×3
Net dimensions (W×D×H)		mm	(1500×860×1690)×2+ 1900×860×1690	1500×860×1690+ (1900×860×1690)×2	(1900×860×1690)×3
Packed dimensions (W×D×H)		mm	(1560×920×1750)×2+ 1960×920×1750	1560×920×1750+ (1960×920×1750)×2	(1960×920×1750)×3
Sound pressure level		dB (A)	50~68		
Pipe connections	Liquid pipe	mm	φ22.23		
	Gas pipe	mm	φ44.5		
Net weight		kg	380×2+460	380+460×2	460×3
Gross weight		kg	395×2+475	395+475×2	475×3
Refrigerant	Type	/			
	Factory charge	kg	16+16+18	16+18+18	18+18+18
Operating temperature range	Cooling	°C	-5~56°C		
	Heating	°C	-30~26°C		
* 3 Maximum fuse current	MFA	A	206.0	223.0	240.0
* 3 Minimum line current	MCA	A	171.4	184.7	198.0

Notes:

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

Modular full inverter ODUs

Model			TIMS800AXA	TIMS820AXA	TIMS840AXA	TIMS860AXA	TIMS880AXA
HP			80	82	84	86	88
Combination type			26+26+28	26+26+30	26+26+32	28+28+30	28+30+30
Power supply			380-415 / 3 / 50 (60Hz)				
*1 Cooling	Capacity	kW	224.5	231.0	236.0	242.0	248.5
	Power input	kW	62.0	63.2	65.4	66.6	67.7
	EER	/	3.6	3.7	3.6	3.6	3.7
*2 Heating	Capacity	kW	250.5	258.0	263.0	270.0	277.5
	Power input	kW	59.0	62.3	63.7	66.1	68.3
	COP	/	4.2	4.1	4.1	4.1	4.1
Connectable indoor unit	Total capacity	kW	50%-130% of outdoor unit capacity				
Compressors	Type	/	DC Inverter				
	Quantity	/	6	6	6	6	6
Fan motors	Type	/	DC				
	Quantity	/	6	6	6	6	6
Airflow rate		m³/h	27000×3				
Net dimensions (W*D*H)		mm	(1900×860×1690)×3				
Packed dimensions (W*D*H)		mm	(1960×920×1750)×3				
Sound pressure level		dB (A)	50~68				
Pipe connections	Liquid pipe	mm	φ25.4				
	Gas pipe	mm	φ50.8				
Net weight		kg	460+460+470			470+470+470	
Gross weight		kg	475+475+485			485+485+485	
Refrigerant	Type	/	R410A				
	Factory charge	kg	18+18+22			22+22+22	
Operating temperature range	Cooling	°C	-5~56°C				
	Heating	°C	-30~26°C				
* 3 Maximum fuse current	MFA	A	240.0	240.0	240.0	240.0	240.0
* 3 Minimum line current	MCA	A	200.0	202.1	204.0	206.1	208.2

Model			TIMS900AXA	TIMS920AXA	TIMS940AXA	TIMS960AXA
HP			90	92	94	96
Combination type			30+30+30	30+30+32	30+32+32	32+32+32
Power supply			380-415 / 3 / 50 (60Hz)			
*1 Cooling	Capacity	kW	255.0	260.0	265.0	270.0
	Power input	kW	68.9	71.1	73.4	75.6
	EER	/	3.7	3.7	3.6	3.6
*2 Heating	Capacity	kW	285.0	290.0	295.0	300.0
	Power input	kW	70.5	71.9	73.3	74.7
	COP	/	4.0	4.0	4.0	4.0
Connectable indoor unit	Total capacity	kW	50%-130% of outdoor unit capacity			
Compressors	Type	/	DC Inverter			
	Quantity	/	6	6	6	6
Fan motors	Type	/	DC			
	Quantity	/	6	6	6	6
Airflow rate		m³/h	27000×3			
Net dimensions (W*D*H)		mm	(1900×860×1690)×3			
Packed dimensions (W*D*H)		mm	(1960×920×1750)×3			
Sound pressure level		dB (A)	50~68			
Pipe connections	Liquid pipe	mm	φ25.4			
	Gas pipe	mm	φ50.8			
Net weight		kg	470+470+470			
Gross weight		kg	485+485+485			
Refrigerant	Type	/	R410A			
	Factory charge	kg	22+22+22			
Operating temperature range	Cooling	°C	-5~56°C			
	Heating	°C	-30~26°C			
* 3 Maximum fuse current	MFA	A	240.0	240.0	240.0	240.0
* 3 Minimum line current	MCA	A	210.3	212.2	214.1	216.0

Notes:

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

Independent Full Inverter ODUs

Model			TIMS080 CSA	TIMS100 CSA	TIMS120 CSA	TIMS140 CSA	TIMS160 CSA	TIMS180 CSA	TIMS200 CSA	TIMS220 CSA
HP			8	10	12	14	16	18	20	22
Power Supply		/	380-415 / 3 / 50(60Hz)							
*1 Cooling	Capacity	kW	25.2	28.5	33.5	40.0	45.0	50.4	56	61.5
	Power input	kW	5.5	6.8	8.6	10.3	12.1	13.6	15.77	17.87
	EER	/	4.6	4.2	3.9	3.9	3.7	3.7	3.6	3.4
*2 Heating	Capacity	kW	27.0	31.5	37.5	45.0	50.0	56.0	63	69
	Power input	kW	5.4	6.6	8.3	10.3	12.2	13.7	15.5	17.3
	COP	/	5.0	4.8	4.5	4.4	4.1	4.1	4.1	4.0
Connectable indoor unit	Total capacity	kW	50%-130% of outdoor unit capacity							
Compressors	Type	/	DC Inverter							
	Quantity	/	1	1	1	1	1	1	1	1
Fan motors	Type	/	DC							
	Quantity	/	1	1	1	1	1	1	2	2
Airflow rate		m³/h	12000				13980		25800	
Net dimensions (W*D*H)		mm	930×860×1690				1240×860×1690		1500×860×1690	
Packed dimensions (W*D*H)		mm	990×920×1750				1300×920×1750		1560×920×1750	
Sound pressure level		dB (A)	56		57	59	60	61	62	
Pipe connections	Liquid pipe	mm	φ9.52				φ12.70		φ15.88	
	Gas pipe	mm	φ22.23		φ25.40	φ28.58		φ28.58		
Net weight		kg	225	225	225	290	290	290	345	350
Gross weight		kg	240	240	240	305	305	305	360	365
Refrigerant	Type	/	R410A							
	Factory charge	kg	8	8	10	12	12	12	16	16
Operating temperature range	Cooling	°C	-5~56°C							
	Heating	°C	-30~26°C							
* 3 Maximum fuse current	MFA	A	20.0	25.0	32.0	40.0	40.0	50.0	50.0	63
* 3 Minimum line current	MCA	A	17.4	21.7	25.8	33.0	35.0	39.1	43.5	47.5

Model			TIMS240 CSA	TIMS260 CSA	TIMS280 CSA	TIMS300 CSA	TIMS320 CSA	TIMS340 CSA
HP			24	26	28	30	32	34
Power Supply		/	380-415 / 3 / 50(60Hz)					
*1 Cooling	Capacity	kW	68.0	73.0	78.5	85.0	90.0	95.0
	Power input	kW	19.0	20.1	21.8	23.0	25.2	25.8
	EER	/	3.6	3.6	3.6	3.7	3.6	3.7
*2 Heating	Capacity	kW	75.0	81.5	87.5	95.0	100.0	106.0
	Power input	kW	18.0	19.4	21.3	23.5	24.9	25.6
	COP	/	4.2	4.2	4.1	4.0	4.0	4.1
Connectable indoor unit	Total capacity	kW	50%-130% of outdoor unit capacity					
Compressors	Type	/	DC Inverter					
	Quantity	/	2	2	2	2	2	2
Fan motors	Type	/	DC					
	Quantity	/	2	2	2	2	2	2
Airflow rate		m³/h	25800	27000				
Net dimensions (W*D*H)		mm	1500×860×1690		1900×860×1690			
Packed dimensions (W*D*H)		mm	1560×920×1750		1960×920×1750			
Sound pressure level		dB (A)	45~64	49~65		49~65		
Pipe connections	Liquid pipe	mm	φ15.88	φ19.05				
	Gas pipe	mm	φ28.58	φ31.75				φ34.92
Net weight		kg	380	460	470	470	470	475
Gross weight		kg	395	475	485	485	485	490
Refrigerant	Type	/	R410A					
	Factory charge	kg	16	18	22	22	22	23
Operating temperature range	Cooling	°C	-5~56°C					
	Heating	°C	-30~26°C					
* 3 Maximum fuse current	MFA	A	63.0	80.0	80.0	80.0	80.0	80.0
* 3 Minimum line current	MCA	A	52.7	66.0	68.0	70.1	72.0	74.0

Notes:

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



Indoor Units
VRF indoor units



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



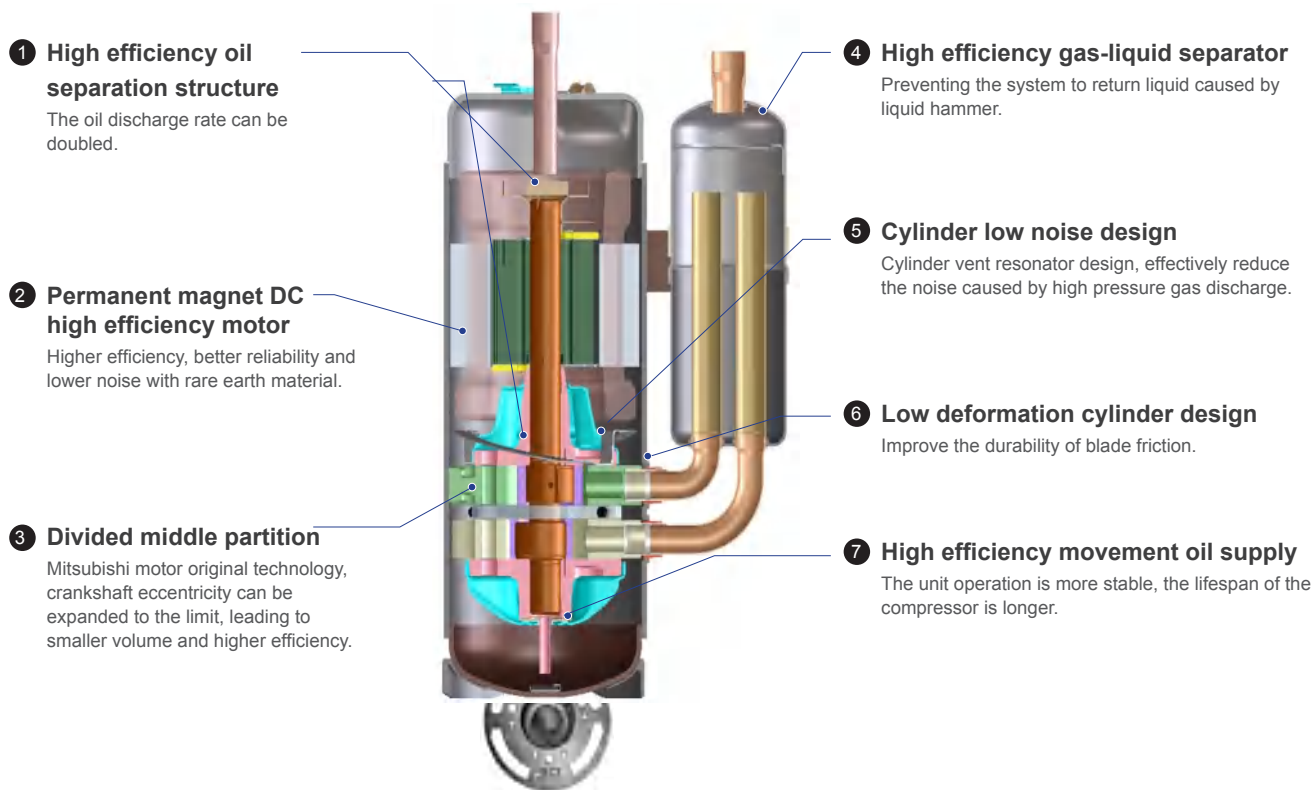
TIMS Extra Series Heat Pump

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)


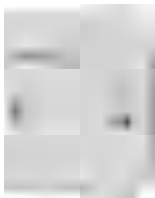

► DC inverter compressor

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



► Wide Capacity Range

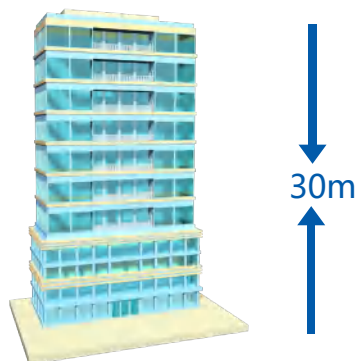
TIMS Extra has two options, side-discharge and top-discharge. For side-discharge type, it has three models, 25.2/28.5/33.5kW. For top-discharge type, it has five models, 25.2/28.5/33.5/40.0/45.0kW.

Side discharge type	Top discharge type	
25.2/28.5/33.5kW	25.2/28.5/33.5kW	40.0/45.0kW
		

► Long Piping Capability

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

* Check relevant technical document or consult technicians.



Side Discharge VRF

Model			TIMS252CSREA	TIMS285CSREA	TIMS335CSREA
Power supply		V/N/Hz	380-415/3/50 (60)		
*1 Cooling	Capacity	kW	25.2	28.5	33.5
	Power input	kW	7.1	8.1	10.4
	EER	/	3.6	3.5	3.2
*2 Heating	Capacity	kW	27.0	31.5	37.5
	Power input	kW	6.8	8.4	10.1
	COP	/	4.0	3.8	3.7
Connectable	Total capacity	kW	50%-130% of outdoor unit capacity		
indoor unit	Max. quantity	/	14	16	19
Compressors	Type	/	Twin rotary		
	Quantity	/	1	1	1
Fan motors	Type	/	DC		
	Quantity	/	2	2	2
Airflow rate		m ³ /h	11300		
Net dimensions (W*D*H)		mm	1100×464×1550		
Packed dimensions (W*D*H)		mm	1175×582×1666		
Sound pressure level		dB (A)	58	59	60
Pipe connections	Liquid pipe	mm	φ12.7		
	Gas pipe	mm	φ22.2		
Net weight		kg	168	168	168
Gross weight		kg	175	175	175
Refrigerant	Type	/	R410A		
	Factory charge	kg	7	7	8
Operating temperature range	Cooling	°C	-5~54°C		
	Heating	°C	-23~26°C		
*3 Maximum fuse current	MFA	A	32.0	32.0	32.0
*3 Minimum line current	MCA	A	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

Model			TIMS252CSRYA	TIMS285CSRYA	TIMS335CSRYA	TIMS400CSRYA	TIMS450CSRYA
Power supply		V/N/Hz	380-415/3/50 (60)				
*1 Cooling	Capacity	kW	25.2	28.5	33.5	40.0	45.0
	Power input	kW	5.6	6.9	8.7	10.4	12.3
	EER	/	4.5	4.1	3.9	3.9	3.7
*2 Heating	Capacity	kW	27.0	31.5	37.5	45.0	50.0
	Power input	kW	5.6	6.7	8.4	10.4	12.2
	COP	/	4.8	4.7	4.5	4.4	4.1
Connectable	Total capacity	kW	50%-130% of outdoor unit capacity				
indoor unit	Max. quantity	/	14	16	19	19	22
Compressors	Type	/	Twin rotary				
	Quantity	/	1	1	1	1	1
Fan motors	Type	/	DC				
	Quantity	/	1	1	1	1	1
Airflow rate		m³/h	12000			13980	
Net dimensions (W*D*H)		mm	930×860×1690			1240×860×1690	
Packed dimensions (W*D*H)		mm	990×920×1750			1300×920×1750	
Sound pressure level		dB (A)	57	57	57	60	61
Pipe connections	Liquid pipe	mm	φ12.70			φ12.70	
	Gas pipe	mm	φ25.40			φ28.58	
Net weight		kg	204			269	
Gross weight		kg	212			277	
Refrigerant	Type	/	R410A				
	Factory charge	kg	8	8	8	12	12
Operating temperature range	Cooling	°C	-5~54°C				
	Heating	°C	-23~26°C				
*3 Maximum fuse current	MFA	A	32.0				
*3 Minimum line current	MCA	A	27.5				

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.



Indoor Units
VRF indoor units



Ventilation
Heat recovery ventilator (HRV)



Control Systems
Smart control systems



AHU Connection Kit
Connect to TICA DX AHU



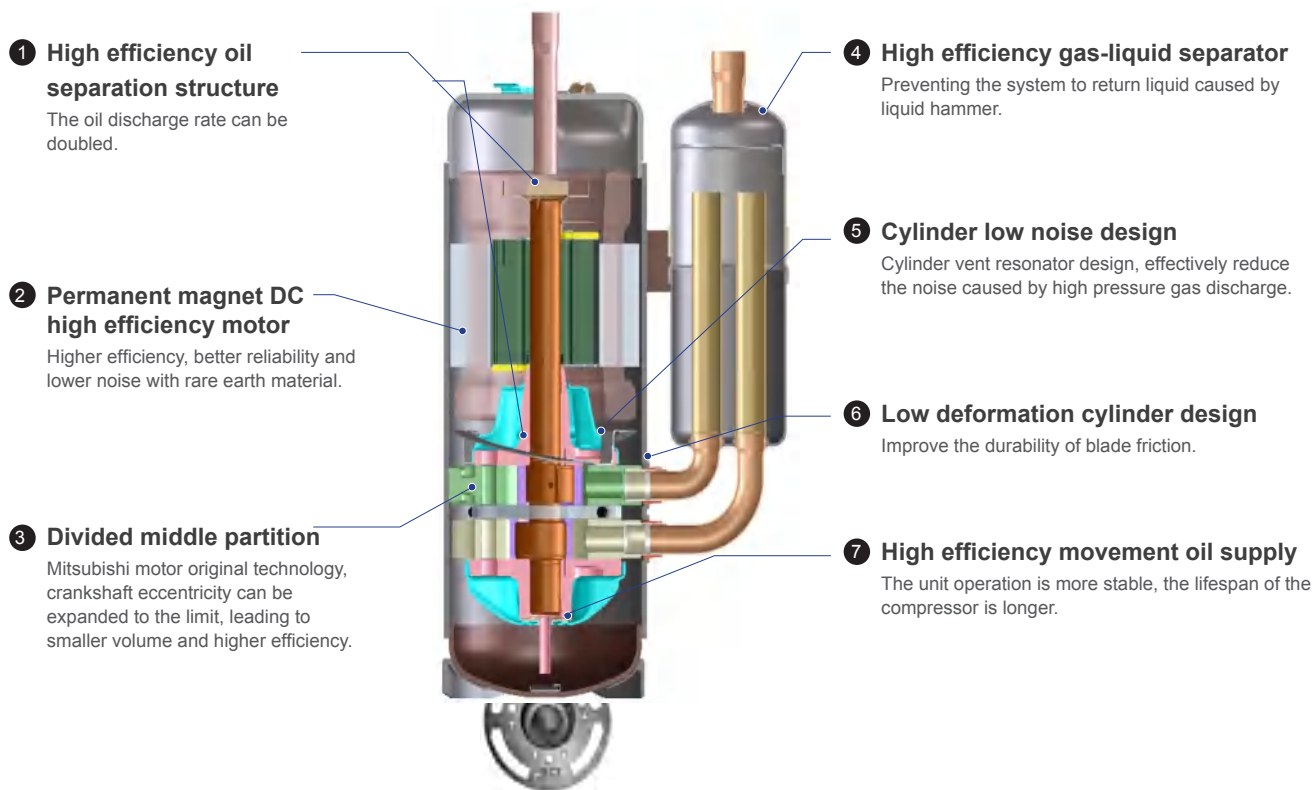
VRF Mini Series Heat Pump

Optimized design for small buildings

- ▶ Two Options: Classic and high efficiency
- ▶ 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

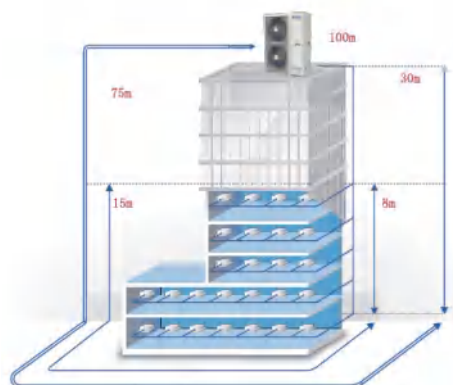
TIMS Extra has two options, classic type and high efficiency type. For classic type, capacity ranges from 8kW-22.4kW. For high efficiency type, capacity ranges from 10kW-18kW.

Classic type			High efficiency type	
8kW	10-16kW	18-22.4kW	10-16kW	18kW
				

► 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 technicians.



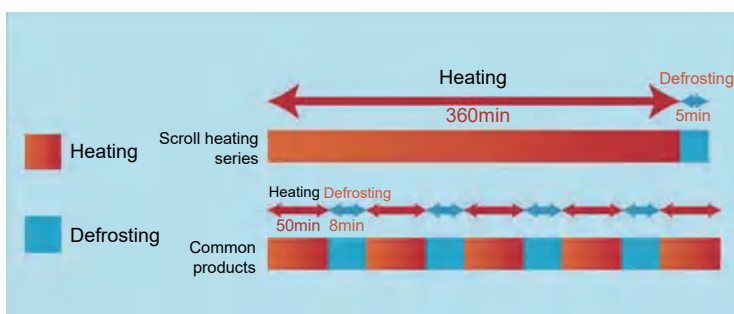
► Compact design

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



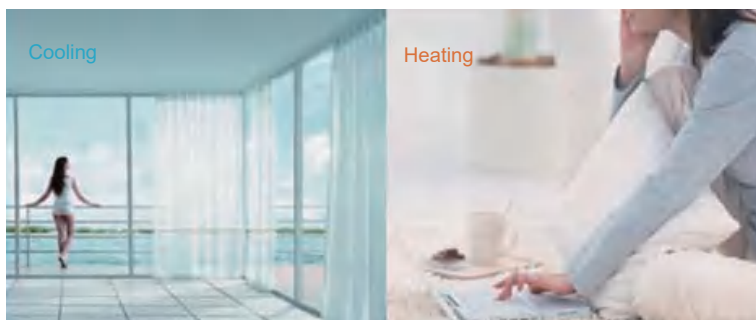
► Intelligent Defrosting

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(High-efficiency series)

Model			TIMS100AHT	TIMS125AHT	TIMS140AHT	TIMS160AHT	TIMS180AHT	TIMS180AHTA
Power supply		/	220-240 / 1 / 50(60)					380-415 / 3 / 50(60)
*1 Cooling	Capacity	kW	10.0	12.5	14.0	16.0	18.0	18.0
	Power input	kW	2.9	3.1	3.8	4.7	5.4	5.4
	EER	/	3.4	4.0	3.7	3.4	3.3	3.3
*2 Heating	Capacity	kW	12.5	14.0	16.0	18.0	20.0	20.0
	Power input	kW	3.0	3.2	4.1	4.5	5.3	5.3
	COP	/	4.2	4.4	3.9	4.0	3.8	3.8
Connectable indoor unit	Total capacity	kW	50%-130% of outdoor unit capacity					
	Max. quantity	/	5	6	7	8	9	10
Compressors	Type	/	DC inverter					
	Quantity	/	1	1	1	1	1	1
Fan motors	Type	/	DC					
	Quantity	/	1	1	1	1	2	2
Airflow rate		m³/h	4800	6000	6000	6000	6600	6600
Net dimensions (W*D*H)		mm	980×390×840				980×390×1260	
Packed dimensions (W*D*H)		mm	1040×450×900				1040×450×1320	
*3 Sound pressure level		dB (A)	50~54	50~55	52~55	53~56	59~62	59~62
Pipe connections	Liquid pipe	mm	φ9.52				φ9.52	
	Gas pipe	mm	φ15.88				φ19.05	
Net weight		kg	85	85	85	85	120	115
Gross weight		kg	95	96	96	96	131	126
Refrigerant		Type	R410A					
Operating temperature range	Cooling	°C	-5~54°C					
	Heating	°C	-25~27°C					

Notes:

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.

Mini VRF Specification(Classic series)

Model			TIMS080 AHR	TIMS100 AHR	TIMS112 AHR	TIMS125 AHR	TIMS140 AHR	TIMS160 AHR	TIMS180 AHRA	TIMS200 AHRA	TIMS224 AHRA
Power supply			220-240/1/50(60)							380-415/3/50(60)	
*1 Cooling	Capacity	kW	8.0	10.0	11.2	12.5	14.0	15.5	18.0	20.0	22.4
	Power input	kW	2.5	2.9	3.0	3.6	4.1	5.1	5.4	6.6	7.2
	EER	/	3.2	3.4	3.7	3.5	3.4	3.1	3.3	3.0	3.1
*2 Heating	Capacity	kW	9.0	11.5	12.5	13.5	16.0	17.0	20.0	22.4	25.0
	Power input	kW	2.4	3.0	3.1	3.5	4.0	4.9	5.3	6.0	6.7
	COP	/	3.8	3.8	4.0	3.9	4.0	3.5	3.8	3.7	3.7
Connectable indoor unit	Total capacity	kW	50%-130% of outdoor unit capacity								
Compressors	Type	/	DC inverter								
	Quantity	/	1	1	1	1	1	1	1	1	1
Fan motors	Type	/	DC								
	Quantity	/	1	1	1	1	1	1	2	2	2
Airflow rate		m³/h	3000	4800	5400	5400	6000	6000	7200	7200	7200
Net dimensions (W*D*H)		mm	865×310×700	980×390×850					980×390×1260		
Packed dimensions (W*D*H)		mm	925×370×770	1040×450×910					1040×450×1320		
*3 Sound pressure level		dB (A)	50~53	50~54	50~55	50~55	52~56	53~56	56~59	56~59	56~59
Pipe connections	Liquid pipe	mm	φ9.52								
	Gas pipe	mm	φ15.88						φ19.05		
Net weight		kg	58	74	78	78	84	84	125		
Gross weight		kg	68	85	89	89	95	95	136		
Refrigerant	Type	/	R410A								
Operating temperature range	Cooling	°C	-5~54°C								
	Heating	°C	-25~27°C								

Notes:

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.



Indoor Units
VRF indoor units



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



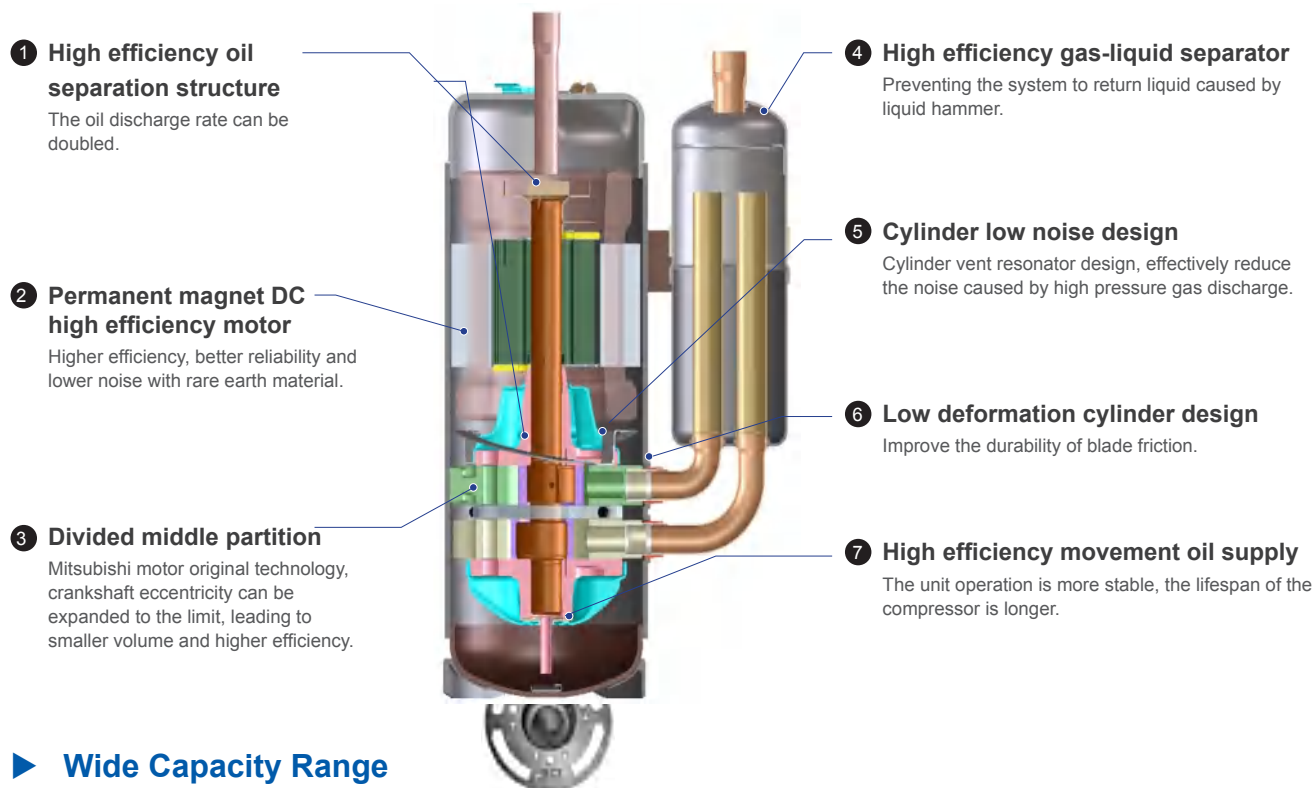
TIMS Series Cooling Only

Optimized design
for small to large
buildings

- ▶ 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.



► Wide Capacity Range

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

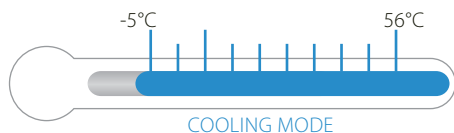


► Combine freely

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

Max. height difference between IDU and ODU	ODU up : 110m ODU down : 90m
Max. height difference between IDU and IDU	30m
Max. allowed length pipe after the first branch	40m(90m)
Max. equivalent single piping length	200m
Max. total piping length	1000m

Note: Check relevant technical documents or consult technicians.



Cooling only VRF

Model			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		/	380-415 / 3 / 50(60)									
*2 Cooling	Capacity	kW	25.2	28.0	33.5	40.0	45.0	53.2	56.0	61.5	67.0	73.0
	Power input	kW	5.6	6.9	8.8	10.6	12.5	12.5	13.8	15.7	17.6	19.4
	EER	/	4.5	4.1	3.8	3.8	3.6	4.3	4.1	3.9	3.8	3.8
Connectable indoor unit	Total capacity	kW	50%-130% of outdoor unit capacity									
	Max. quantity	/	14	16	19	19	22	31	33	34	34	36
Compressors	Type	/	DC inverter									
	Quantity	/	1	1	1	1	1	2	2	2	2	2
Fan motors	Type	/	DC									
	Quantity	/	1	1	1	1	1	2	2	2	2	2
	Max.ESP	Pa	110									
Airflow rate		m³/h	12000			13980		24000				25980
Net dimensions (W*D*H)		mm	930×860×1690			1240×860×1690		(930×860×1690)×2				(930×860×1690)+ (1240×860×1690)
Packed dimensions (W*D*H)		mm	990×920×1750			1300×920×1750		(990×920×1750)×2				(990×920×1750)+ (1300×920×1750)
Sound pressure level		dB (A)	57			60	61	59				62
Pipe connections	Liquid pipe	mm	φ12.7						φ15.88			φ19.05
	Gas pipe	mm	φ25.4			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
Refrigerant	Type	/	R410A									
	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	A	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	A	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 Combination			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 supply		/	380-415 / 3 / 50(60)										
*2 Cooling	Capacity	kW	80.0	85.0	90.0	95.0	100.5	108.0	113.5	120.0	125.0	130.0	135.0
	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 indoor unit	Total capacity	kW	50%-130% of outdoor unit capacity										
	Max. quantity	/	38	40	40	42	42	44	46	48	50	52	52
Compressors	Type	/	DC inverter										
	Quantity	/	2	2	2	3	3	3	3	3	3	3	3
Fan motors	Type	/	DC										
	Quantity	/	2	2	2	3	3	3	3	3	3	3	3
	Max. ESP	Pa	110										
Airflow rate		m³/h	27960			36000		39960		41940	41940	41940	41940
Net dimensions (W*D*H)		mm	(1240×860×1690)×2			(930×860×1690)×3		(930×860×1690)+(1240×860×1690)×2		(1240×860×1690)×3			
Packed dimensions (W*D*H)		mm	(1300×920×1750)×2			(990×920×1750)×3		(990×920×1750)+(1300×920×1750)×2		(1300×920×1750)×3			
*3 Sound pressure level		dB (A)	62	63	63	60	60	63	63	63	64	64	64
Pipe connections	Liquid pipe	mm	φ19.05										
	Gas pipe	mm	φ31.75			φ34.92			φ38.1				
Net weight		kg	580	580	580	660	660	780	780	870	870	870	870
Gross weight		kg	595	595	595	675	675	795	795	885	885	885	885
Refrigerant	Type	/	R410A										
	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 A	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 A	66.0	68.0	70.0	73.0	77.4	87.7	91.8	99.0	101.0	103.0	105.0











Notes:

- The combination mode is recommended, and you can choose the combination mode freely. Maximum 3 modules can be combined.
- 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.
- Fuse or circuit breaker is selected based on MFA. Electrical wiring is selected based on MCA.

Indoor unit





Inoor Unit Lineup

kW		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					●		●	●			●					
Ceiling & Floor					●		●				●		●		●	
Full Fresh Air Handling Unit																


- AC motor
- DC motor

Inoor Unit Lineup

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														
Ceiling & Floor		●	●	●										
Full Fresh Air Handling Unit				●			●	●			●		●	

- AC motor
- DC motor

AHU KIT

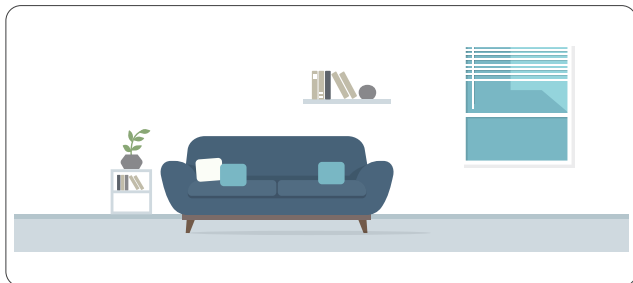
Model	Cooling capacity (HP)	Indoor unit capacity (kW)	Reference air volume (m³/h)	Picture
TMDK280	8	20~25	3000	
	10	25~30	3700	
TMDK450	12	25~30	4500	
	14	36~40	5400	
	16	40~45	6000	
TMDK900	18	45~61	9000	
	26	61~73	10000	
	32	73~90	13000	

One-way Cassette

► COMFORT

Quiet Operation

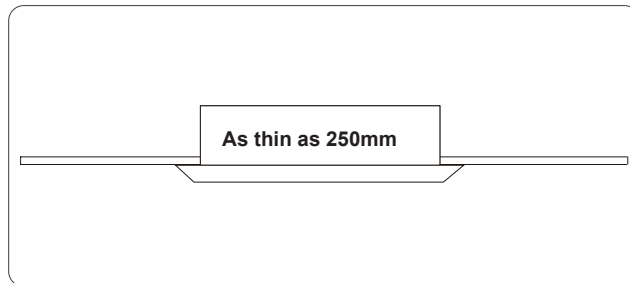
The compact turbo fan adopts axial air intaking. Small blades ensure even air supply and substantially reduce noise for a quiet and comfort environment.



► EASY INSTALLATION

Easy Installation

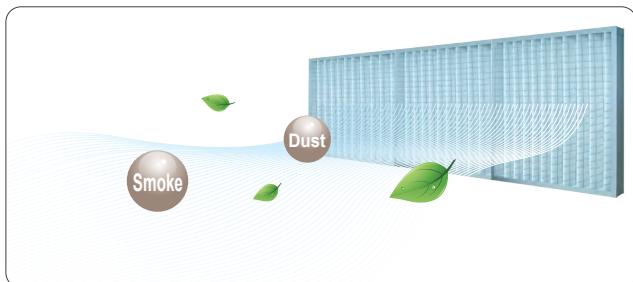
Body thickness of 250 mm installed in a concealed way to lift the height of the suspended ceiling, especially suitable for ceilings with narrow height.



► HEALTH

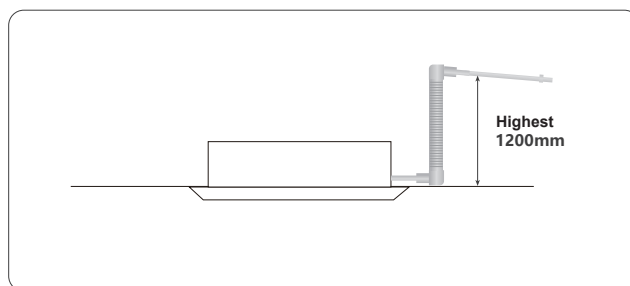
Exclusive Sterilizing Filter

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.



Specifications

► One-way cassette

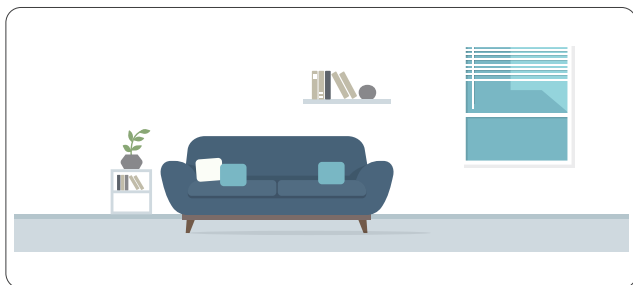
Model (TMCS-XX-A)		028	036	045	056	071
One-way cassette	kW	2.8	3.6	4.5	5.6	7.1
Nominal heating capacity	kW	3.2	4.0	5.0	6.3	8.0
Power supply	V/N/Hz	220/1/50				
Motor type		AC motor				
Nominal input power	w	40	40	45	45	50
Dimensions (WxDxH)	mm	870x460x250			1180x495x290	
Panel dimensions (WxDxH)	mm	1070x520x33			1380x550x33	
Panel color		Milky white				
Air flow	m³/h	510	600	720	910	1000
Sound pressure level	dB(A)	36	38	42	45	47
Weight	kg	25	27	27	39	39
Connecting pipe Dimensions	Liquid pipe	φ6.35				φ9.52
	Gas pipe	φ12.70				φ15.88
	Condensate drain pipe	DN20				

Two-way Cassette

► COMFORT

Quiet Operation

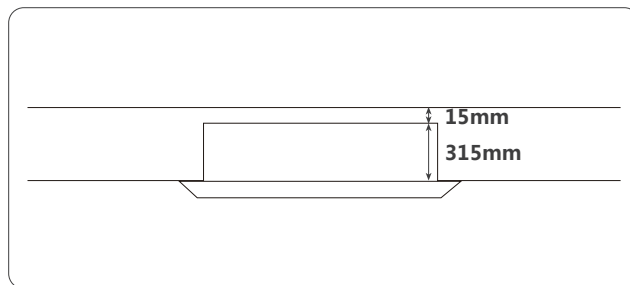
The compact turbo fan adopts axial air intaking. Small blades ensure even air supply and substantially reduce noise for a quiet and comfort environment.



► EASY INSTALLATION

Easy Installation

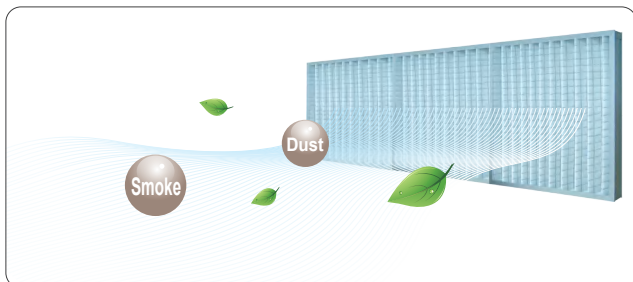
Body thickness of 250 mm installed in a concealed way to lift the height of the suspended ceiling, especially suitable for ceilings with narrow height.



► HEALTH

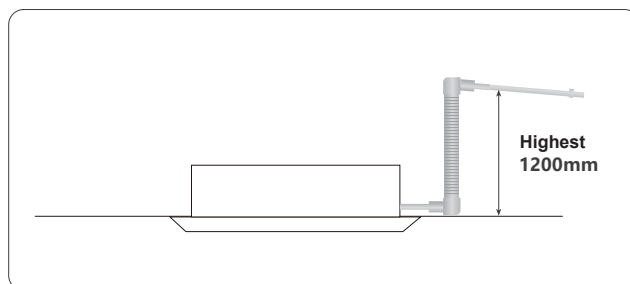
Exclusive Sterilizing Filter

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

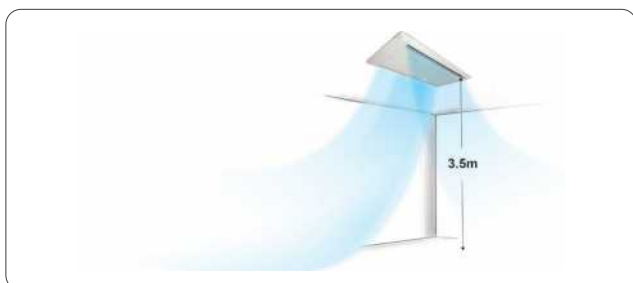
Built-in with a fully-automatic drain pump. Pumping head is up to 1200mm, flexible for drainage pipe design.



► 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.



Specifications

► Two-way cassette

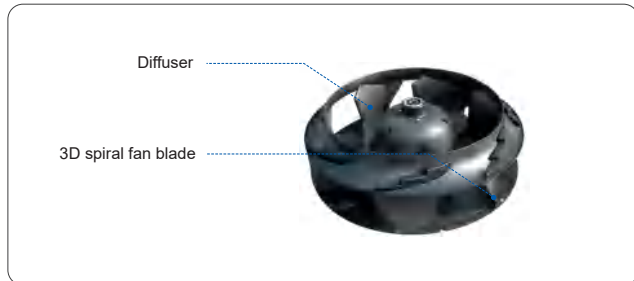
Model (TMCD-XX-A)		028	036	045	056	071	080
Nominal cooling capacity	kW	2.8	3.6	4.5	5.6	7.1	8.0
Nominal heating capacity	kW	3.2	4.0	5.0	6.3	8.0	9.0
Power supply	V/N/Hz	220/1/50					
Motor type		AC motor					
Nominal input power	w	60	62	68	85	94	98
Dimensions (WxDxH)	mm	970x520x315		970x520x315		1210x520x315	
Panel dimensions (WxDxH)	mm	1176x630x33		1176x630x33		1416x630x33	
Panel color		Milky white					
Air flow	m³/h	500	616	773	900	1165	1300
Sound pressure level	dB(A)	37	39	43	45	47	49
Weight	kg	32	32	37	37	40	40
Connecting pipe size	Liquid pipe	mm	φ6.35			φ9.52	
	Gas pipe	mm	φ12.70			φ15.88	
	Condensate drain pipe	mm	DN20				

Round Flow Cassette

► COMFORT

Quiet Operation

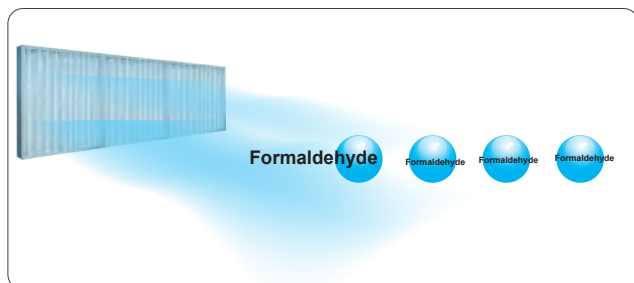
The use of aerospace technology on 3D spiral fan blades with optimized air duct design reduces internal resistance of the unit and achieves ultra-quiet operation, creating a comfortable and pleasant environment.



► 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

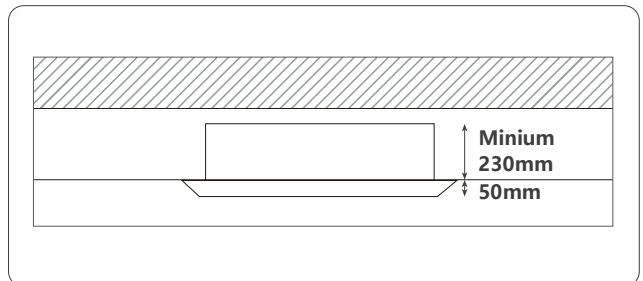
The air supply is not limited by the floor height. The cold air can reach the ground in a room of up to 3.5 m high to achieve optimum air conditioning performance.



► EASY INSTALLATION

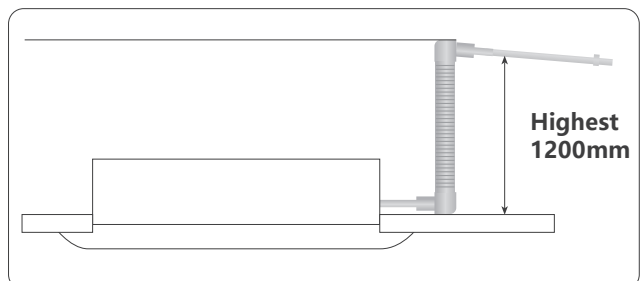
Compact Size

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

Model (TMCf-XX-AB)		028	036	045	050	056	063	071	080	090	100	112	126	140	160		
Nominal heating 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 heating 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														
Motor type			AC motor														
Nominal input power		w	55	55	70	70	75	75	90	90	150	150	150	190	190	210	
Dimensions (WxDxH)		mm	840x840x230									840x840x300					
Panel dimensions (WxDxH)		mm	950x950x50														
Panel color			Milky white														
Air flow		m³/h	750	810	900	900	960	960	1020	1200	1500	1620	1700	1800	1800	2100	
Sound pressure level		dB(A)	32		36				39		42			44		44	
Weight		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	
Connecting pipe Dimensions	Liquid pipe	mm	φ6.35						φ9.52								
	Gas pipe	mm	φ12.70						φ15.88								
	Condensate drain pipe	mm	DN25														

► DC round flow cassette

Model (TMCf-XX-ABB)		028	036	045	050	056	063	071	080	090	100	112	125	140	160	
Nominal heating 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 heating 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														
Motor type		DC motor														
Nominal input power	w	36	36	45	45	45	45	73	73	67	67	88	88	88	130	
Dimensions (WxDxH)	mm	840x840x230									840x840x300					
Panel dimensions (WxDxH)	mm	950x950x50														
Panel color		Milky white														
Air flow	m³/h	810	810	960	960	960	960	1020	1200	1500	1500	1800	1800	1800	2100	
Sound pressure level	dB(A)	32		36				39		42			44		44	
Weight	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	
Connecting pipe Dimensions	Liquid pipe	mm	φ6.35						φ9.52							
	Gas pipe	mm	φ12.70						φ15.88							
	Condensate drain pipe	mm	DN25													

► Compact Round Flow Cassette

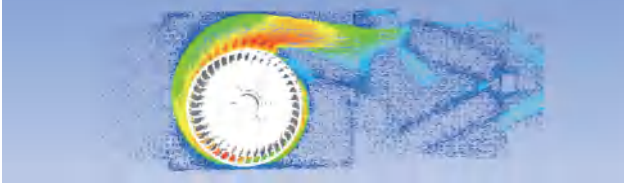
TMCf-XX-AC		015	022	028	036	045	050
Nominal cooling capacity	kW	1.5	2.2	2.8	3.6	4.5	5.0
Nominal heating capacity	kW	2.2	2.5	3.2	4.0	5.0	5.6
Power supply	V/N/Hz	220/1/50					
Motor type		AC motor					
Nominal input power	w	50	50	50	75	75	75
Dimensions (WxDxH)	mm	590x590x260					
Panel dimensions (WxDxH)	mm	680x680x30					
Panel color		Milky white					
Air flow	m ³ /h	500	500	500	680	680	680
Sound pressure level	dB(A)	36	36	36	42	42	42
Weight	kg	16/20	16/20	16/20	18/22	18/22	18/22
Connecting pipe size	Liquid pipe	mm	φ6.35				
	Gas pipe	mm	φ12.70				
	Condensate drain pipe	mm	DN25				

Slim Duct

► COMFORT

Quiet Operation

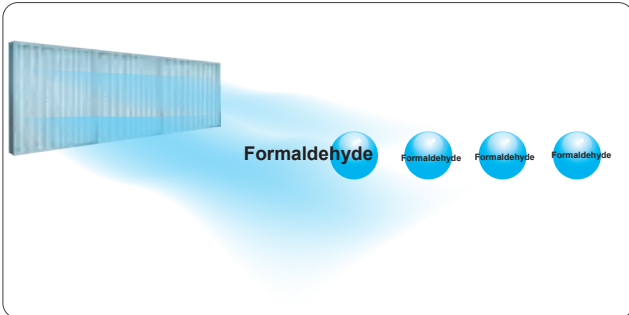
Use the brand-new CFD optimized duct and simulated fan blades to ensure softer air supply, and the auxiliary streamlined embedded foam wiring drain pan lowers noise of eddy current to 23 dB, equal to the normal human breathing sound.



► HEALTH

Health

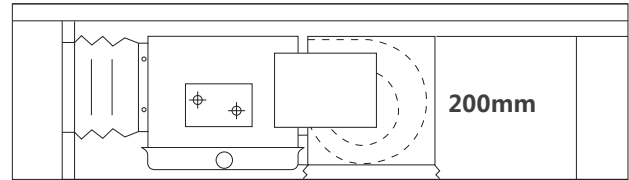
PM2.5, formaldehyde and antibacterial filters are to provide super-clean indoor environment.



► EASY INSTALLATION

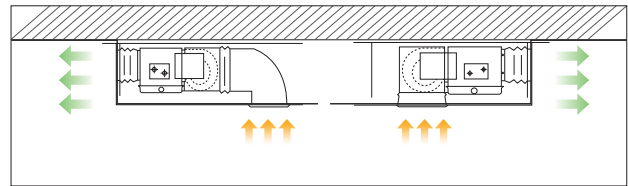
Compact Size

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



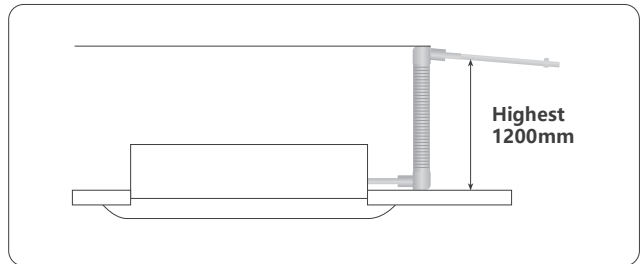
Diversified air return mode

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.



Specifications

► Slim duct

Model (TMDN-XX-AC)		022	025	028	032	036	040	045	050	056	063	071	
Nominal heating 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 heating 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 input power		w	54	54	54	55	55	55	77	77	77	100	106
Dimensions (WxDxH)		mm	700x450x200						920x450x200			1140x450x200	
Air flow		m³/h	500	500	500	560	560	560	750	750	750	920	1000
Esp (adjustable)		Pa	10(30)										
Sound pressure level		dB(A)	33			33			35			36	37
Weight		kg	17.5	17.5	17.5	17.5	17.5	17.5	21.5	21.5	21.5	28	28
Connecting pipe Dimensions	Liquid pipe	mm	φ6.35			φ6.35							φ9.52
	Gas pipe	mm	φ9.52			φ12.70							φ15.88
	Condensate drain pipe	mm	DN25										

► DC slim duct

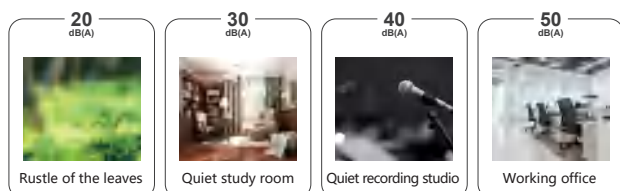
Model (TMDN-XX-ACB)		022	025	028	032	036	040	045	050	056	063	071	
Nominal heating capacity		kW	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1
Nominal heating capacity		kW	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0
Power supply		V/N/Hz	220/1/50										
Motor type		DC motor											
Nominal input power		w	40	40	40	45	45	50	50	50	50	60	60
Dimensions (WxDxH)		mm	700x450x200						920x450x200			1140x450x200	
Air flow		m³/h	500	500	500	560	560	560	750	750	750	920	1000
Esp (adjustable)		Pa	10(30)										
Sound pressure level		dB(A)	33			33			35			36	37
Weight		kg	17.5	17.5	17.5	17.5	17.5	17.5	21.5	21.5	21.5	28	28
Connecting pipe Dimensions	Liquid pipe	mm	φ6.35			φ6.35						φ9.52	
	Gas pipe	mm	φ9.52			φ12.70						φ15.88	
	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.



► AIR FLOW

Brushless DC motor

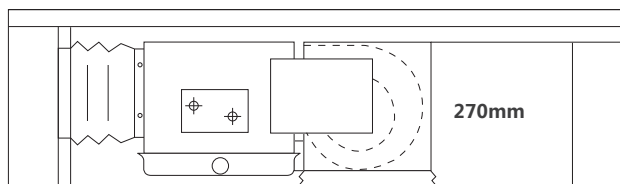
Brushless DC motor free of excitation loss and carbon brush loss, with the energy efficiency 30% higher than AC motor.



► EASY INSTALLATION

Compact Size

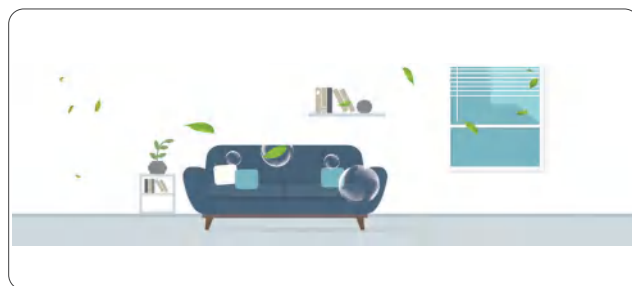
Thickness of only 270mm installed in a concealed way to lift the height of the suspended ceiling, especially suitable for ceilings with narrow height of suspended ceilings.



► HEALTH

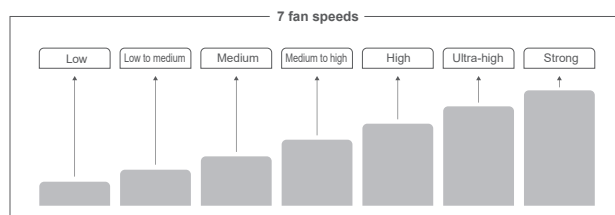
Health

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



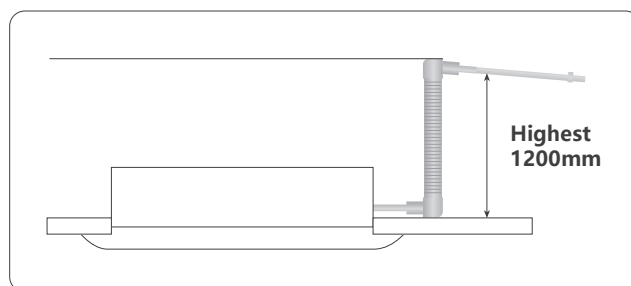
Seven fan speeds, up to 100Pa static pressure

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



High-lift Drain Pump

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



Specifications

► Medium static pressure duct

Model (TMDN-AEB)		022	025	028	032	036	040	045	050	056	063
Nominal heating capacity	kW	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3
Nominal heating capacity	kW	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	7.1
Power supply	V/N/Hz	220/1/50									
Motor type		DC motor									
Nominal input power	w	35	35	35	40	40	40	45	45	45	60
Dimensions (WxDxH)	mm	920x450x200						1140x450x200			
Air flow	m ³ /h	450	450	450	500	500	500	650	650	650	920
Standard ESP (adjustable)	Pa	30(0/10/30/50)									
Sound pressure level	dB(A)	33	33	33	33	33	33	35	35	35	37
Weight	kg	21.5	21.5	21.5	21.5	21.5	21.5	26.5	26.5	26.5	28
Connecting pipe Dimensions	Liquid pipe	mm	φ6.35								
	Gas pipe	mm	φ12.70								
	Condensate drain pipe	mm	DN25								

► Changeable ESP Duct

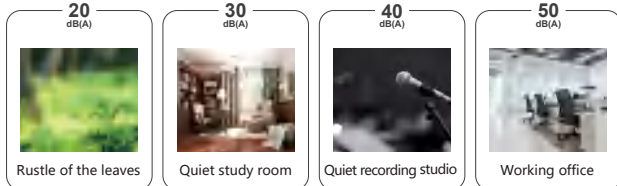
Model (TMDN-XX-AE)		071	080	090	100	112	125	140	160
Nominal cooling capacity	kW	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0
Nominal heating capacity	kW	8	9.0	10.0	11.2	12.5	14.0	16.0	18.0
Power supply	V/N/Hz	220/1/50							
Motor type		DC motor							
Nominal input power	w	110	130	130	160	160	160	200	200
Dimensions (WxDxH)	mm	1200x680x270							
Air flow	m ³ /h	1000	1300	1300	1600	1600	1600	2000	2000
Standard 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 pressure level	dB(A)	37	40	40	43	43	43	43	43
Weight	kg	34.5	34.5	34.5	37	37	37	38	38
Connecting pipe size	Liquid pipe	mm	φ9.25						
	Gas pipe	mm	φ15.88						
	Condensate drain pipe	mm	DN25						

High static pressure duct

COMFORT

Quiet Operation

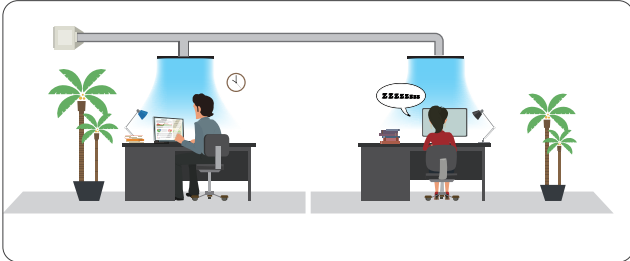
Brand-new noise reduction technology effectively reducing noises of the unit to provide quiet and pleasant environment.



AIR FLOW

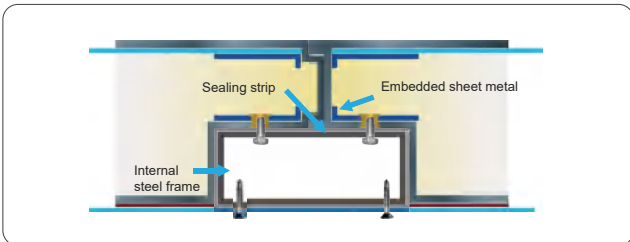
Ultra-high static pressure design

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

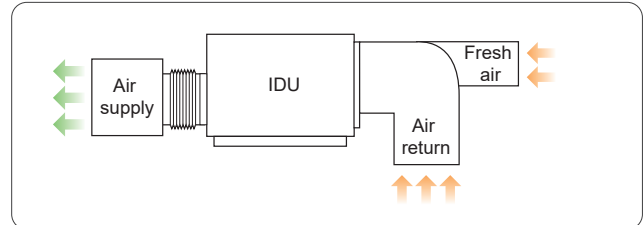
All the metal parts in the cabinet are isolated from outside metal parts, using polyurethane foam and specially designed sealing strips, avoiding the thermal insulation strips attached inside the common product to prevent condensation. Cold bridge and dripping are resolved, and the system noise is lower.



HEALTH

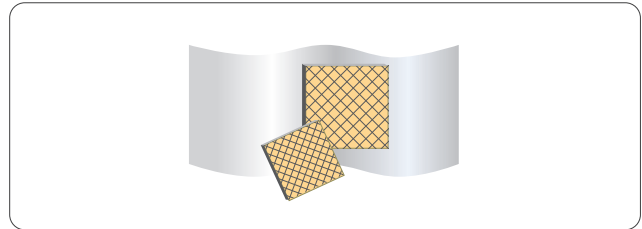
Intake fresh air to improve air quality

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

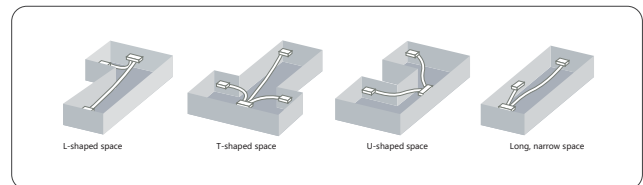
Customized air purification program, the antibacterial filtering layer including photocatalyst and activated carbon can effectively remove odors, dust, smoke, and formaldehyde, benzene and other hazardous substances in decorative materials to create a comfort room with fresh air.



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

Specifications

► High static pressure duct

Model		TMDH-XX-AB				TMDH-XX-BI							
		100	112	125	140	200	250	335	400	450	500	560	615
Nominal cooling capacity	kW	10.0	11.2	12.5	14.0	20	25	33.5	40	45	50	56	61.5
Nominal heating capacity	kW	11.2	12.5	14.0	16.0	22.4	27	37.5	45	50	56	63	69
Power supply	V/N/Hz	220/1/50				380/3/50							
Motor type		AC motor											
Nominal input power	W	400	420	500	550	1100		2200		3000			
Dimensions (W×D×H)	mm	1200×750×390				906×1410×590		1006×1860×800				1006×2360×840	
Air flow	m³/h	1800	2000	2250	2700	4000	4000	7000	7000	9000	9000	10000	10000
ESP	Pa	50 (100/200)				200		250				300	
Sound pressure level	dB(A)	49		51		54		55		57		59	
Weight		kg	62			100	100	200	200	200	200	260	260
Connection pipe size	Liquid pipe	mm	φ9.52			φ12.7		φ15.88				φ19.05	
	Gas pipe	mm	φ15.88			φ22.23		φ28.6				φ31.8	
	Condensate drain pipe	mm	DN25			DN32							

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.



Specifications

► Wall-mounted

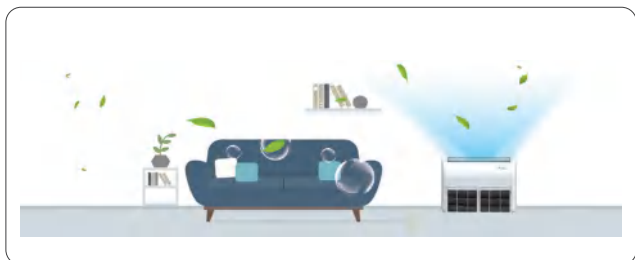
Model (TMVW-XX-ACB)		028	036	040	056
Nominal heating capacity	kW	2.8	3.6	4.0	5.6
Nominal heating capacity	kW	3.0	4.3	4.5	6.0
Power supply	V/N/Hz	220/1/50			
Motor type		DC motor			
Nominal input power	w	65	65	70	70
Dimensions (WxDxH)	mm	803x209x287			913x209x287
Air flow	m ³ /h	600	600	600	750
Sound pressure level	dB(A)	40			45
Weight	kg	12	12	12	13
Connecting pipe Dimensions	Liquid pipe	mm	φ6.35		φ9.52
	Gas pipe	mm	φ9.52		φ15.88
	Condensate drain pipe	mm	DN20		

Celling & Floor

► COMFORT

Quiet Operation

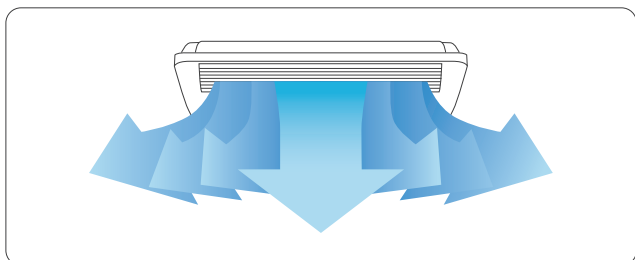
Unequally spaced oblique angle large diameter through flow fan is used to ensure strong air supply, lower fan speed and lower energy consumption.



► AIR FLOW

Wide air flow

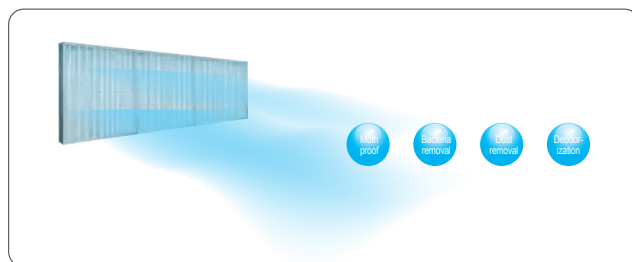
Auto wide-range air supply guaranteed gentle, natural, and even air flow. Various air supply modes are available. Anti-cold wind design ensures more comfortable air supply in winter.



► 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.



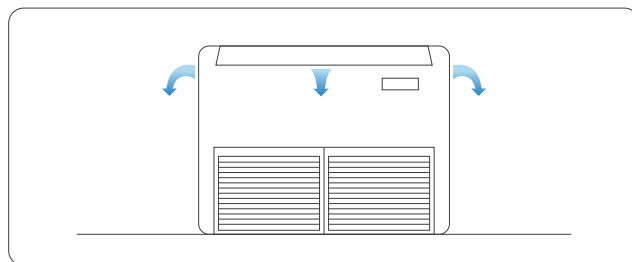
► EASY MAINTENANCE

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.



Specifications

► Ceiling & Floor

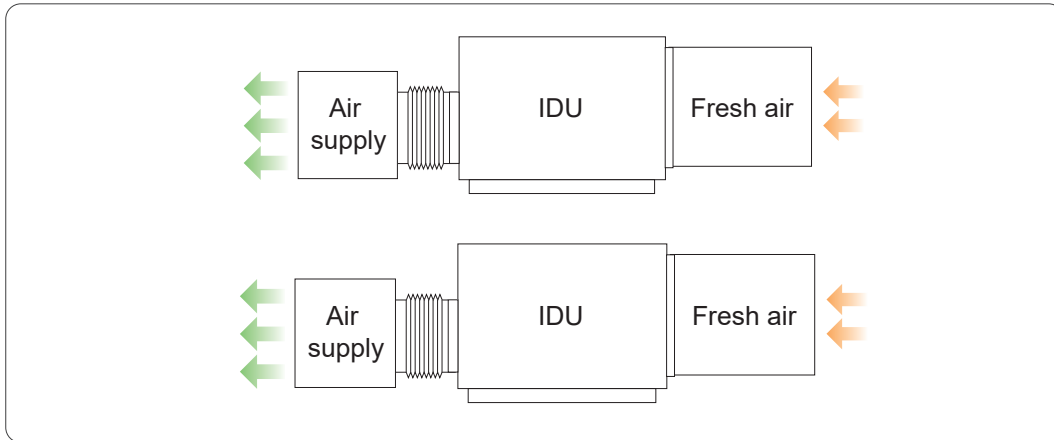
Model (TMVX-XX-A)		028	036	056	071	090	112	125	140	
Nominal heating capacity		kW	2.8	3.6	5.6	7.1	9.0	11.2	12.5	14.0
Nominal heating capacity		kW	3.2	4.0	6.3	8.0	10.0	12.5	14.0	16.0
Power supply		V/N/Hz	220/1/50							
Nominal input power		w	48	62	85	120	156	210	240	240
Dimensions (WxDxH)		mm	905x673x243				1288x673x243		1672x673x243	
Air flow		m³/h	450	600	820	1100	1470	1800	2000	2000
Sound pressure level		dB(A)	42	43	45	47	49	50	51	51
Weight		kg	28	28	30	40	40	45	45	45
Connecting pipe Dimensions	Liquid pipe	mm	φ6.35			φ9.52				
	Gas pipe	mm	φ12.70			φ15.88				
	Condensate drain pipe	mm	DN25							

Full-fresh air handling unit

► HEALTH

Intake fresh air

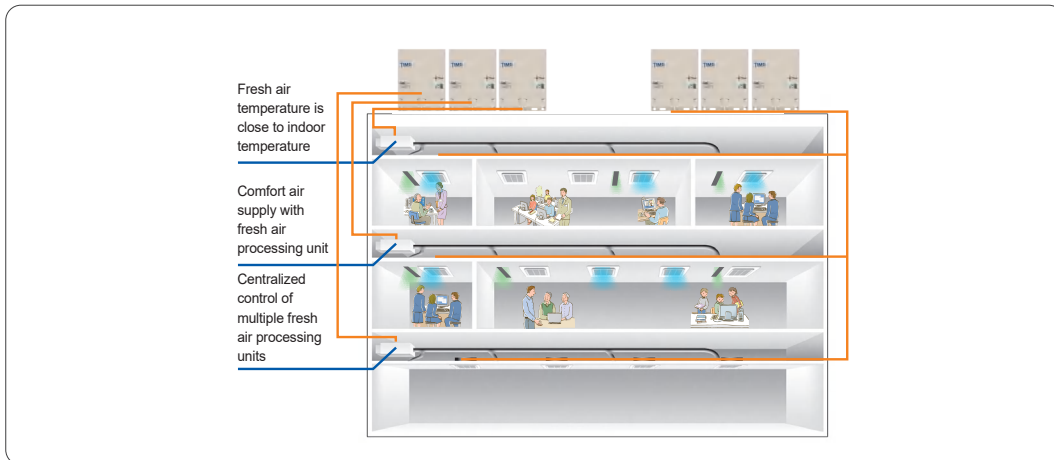
Intake fresh air to make the outdoor air close to room temperature through the indoor heat exchanger and the powerful heating/cooling capacity, so as to meet various requirements.



► AIR FLOW

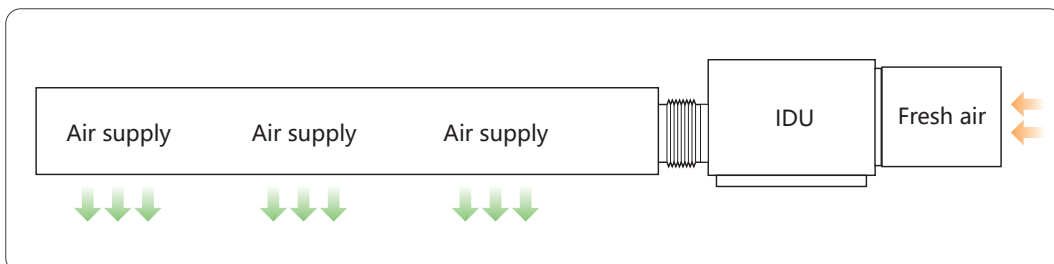
Multi-split unit for multi-point air supply

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.





Fresh Air Solutions

Care for every breath

97%

PM2.5 purification
efficiency ^{*1}

90%

Formaldehyde
purification efficiency ^{*2}



Fresh air
introduction



Efficient PM2.5
filter

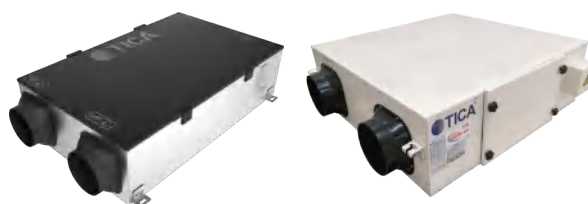


Chemical removal of
formaldehyde



Sterilization

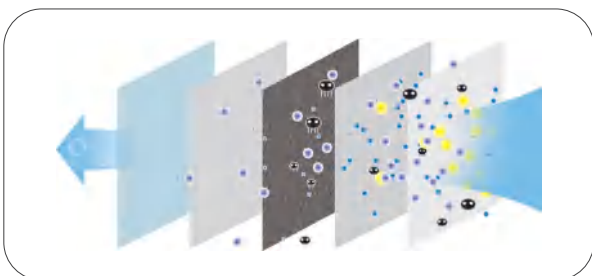
Heat Recovery Ventilator (HRV)



► Multiple haze removal

Must-have for haze removal

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



► Omni-directional air replacement

Fresh air enjoyed without opening the window

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



► Highly efficient energy recovery

Efficient heat exchange core

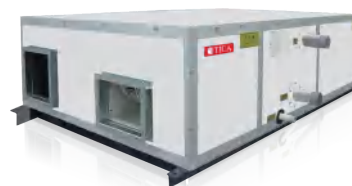
- The heat recovery core is formed by cross-laminating and rotating the single-sided corrugated, parallel paper sheets by 90°, with two mutually vertical and non-interfering channels. The fresh air and return air are able to exchange heat and humidity without being mixed when passing the two channels.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



► Specifications

Model (TRV-XX)		015	025	035	050
Power supply	V/N/Hz	220/1/5			
Power Input	W	105	135	276	365/380
Current	A	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
Net Weight	kg	24	24	27	53

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
	Air discharge	Pa	90	110	120	110	100	110	100	100	110	100
Cooling	Temperature recovery efficiency	%	61	59	61	58	59	57	57	59	57	57
	Enthalpy recovery rate	%	52	51	53	50	51	50	50	51	50	50
Heating	Temperature recovery efficiency	%	72	71	73	70	71	69	69	71	69	69
	Enthalpy recovery rate	%	60	59	61	58	59	58	58	59	58	58
Motor power	Air supply	kW	0.2	0.3	0.45	0.55	0.55	1	1.5	0.55X2	1.00X2	1.50X2
	Air discharge	kW	0.2	0.3	0.45	0.55	0.55	1	1.5	0.55X2	1.00X2	1.50X2
Sound pressure level		dB(A)	53	53	55	56	58	59	62	62	63	66
Power supply		V/N/Hz	220/1/50				380/3/50					

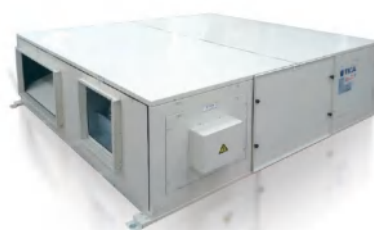
High-end series fresh air ventilators

► 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		m³/h	1000	1500	2000	2500	3000	4000	5000	6000
ESP		Pa	120	160	105	100	150	125	95	120
Enthalpy recovery rate	Cooling	%	51	51	51	51	58	51	57	58
	Heating	%	67	62	61	62	71	65	71	70
Temperature recovery efficiency	Cooling	%	67	61	61	64	64	67	67	67
	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		A	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		Kg	100	143	175	185	198	290	360	390

TIMS HYplus Healthy VRF

Quadruple Filtration

-  Physical intercept
-  Chemical aldehyde removal
-  Silver ion bacteriostasis
-  UVC disinfection



Healthy Air Is On the Way

► Basic Benefits of Healthy Air

Reduce Illness
Alleviate Allergies
Pet-Friendly
Sleep Better

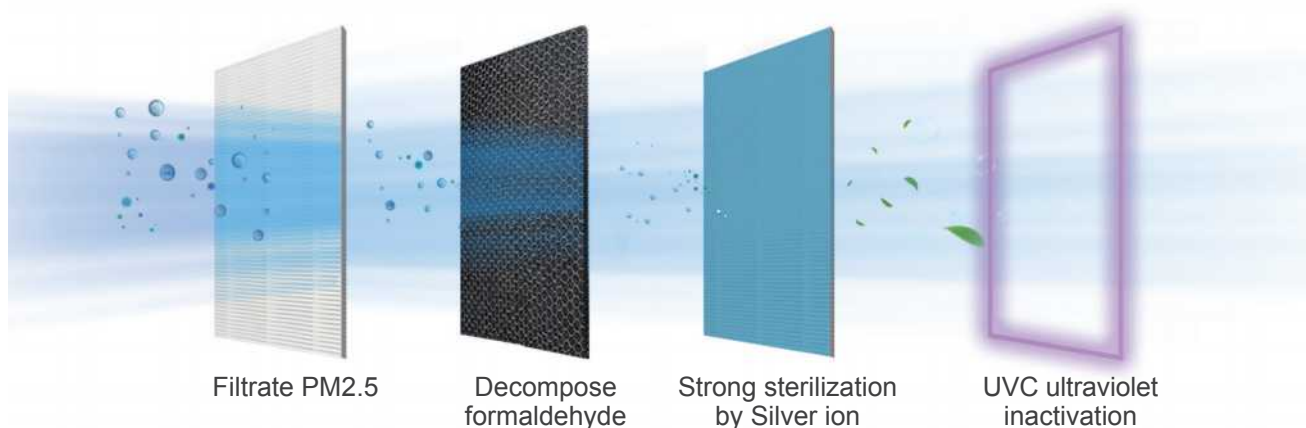


Maintain Wellness



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 environment

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

Quadruple Filtration Type



PM2.5 cycle purification efficiency: 99.9%, 15mins
Microbe cycle efficiency: 99.9%, 30mins
Formaldehyde cycle purification efficiency: 90% 30mins

TPL

RNH₂

Argenzil

UVC

Medical Special Type



PM2.5 purification efficiency: 95%,
primary filtration Microbe efficiency: 95%,
primary filtration

TPL

Argenzil

UVC

Ultra-thin Purification Type



PM2.5 cycle purification efficiency: 97%, 1h
Microbe cycle efficiency: 99.9%, 2h
Formaldehyde cycle purification efficiency: 90% 1h

INTREPID

RNH₂

Silver ion

► Purify Module Matching Table

Type	Model	Capacity(kW)																	
		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 Specifications

Model (TMDP-ACBNNN)		022	025	028	032	036	040	045	050	056	063	071	
Nominal heating capacity		kW	2.2	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	7.1	
Nominal heating capacity		kW	2.5	2.8	3.2	3.6	4.0	4.5	5.0	5.6	6.3	8.0	
Power supply		-	220V~50Hz										
Nominal input power		W	40	40	40	45	45	50	50	50	50	60	60
Dimensions (WxDxH)		mm	700X450X200					920X450X200				1140X450X200	
Air flow	High	m³/h	500	500	500	560	560	750	750	750	750	920	1000
	Mid		370	370	370	430	430	620	620	620	620	710	800
	Low		310	310	310	360	360	550	550	550	550	590	680
Esp (adjustable)		Pa	10 (30)										
Sound pressure level(High/Mid/Low)		dB(A)	33/28/23			33/28/24		35/30/28			36/32/28	37/32/29	
Weight		kg	17.5	17.5	17.5	17.5	17.5	21.5	21.5	21.5	21.5	28	28
Connecting pipe Dimensions	Liquid pipe	mm	φ6.35			φ9.52							
	Gas pipe	mm	φ9.52			φ12.7							
	Condensate drain pipe	mm	DN25										

Model(TMDP-AEBNNN)		022	025	028	032	036	040	045	050	056	063
Nominal heating capacity	kW	2.2	2.5	2.8	3.2	3.6	4	4.5	5	5.6	6.3
Nominal heating capacity	kW	2.5	2.8	3.2	3.6	4	4.5	5	5.6	6.3	7.1
Power supply	-	220V~50Hz									
Nominal input power	W	0.035	0.035	0.035	0.04	0.04	0.04	0.045	0.045	0.045	0.06
Dimensions (WxDxH)	mm	920×450×200					1140×450×200				
Air flow(High)	m ³ /h	450	450	450	500	500	500	650	650	650	920
ESP (adjustable)	Pa	10 (0~30)									
Sound pressure level	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	37/32/29
Weight	kg	21.5	21.5	21.5	21.5	21.5	21.5	26.5	26.5	26.5	28
Connecbon pipe size	Liquid pipe	mm	φ6.35								
	Gas pipe	mm	φ12.7								
	Condensate drain pipe	mm	DN25								

Model(TMDP-AEBNNN)		071	080	090	100	112	125	140	160
Nominal heating capacity	kW	7.1	8.0	9.0	10.0	11.2	12.5	14	16
Nominal heating capacity	kW	8.0	9.0	10.0	11.2	12.5	14.0	16.0	18.0
Power supply	-	220V~50Hz							
Nominal input power	W	100	130	130	160	160	160	200	200
Dimensions (WxDxH)	mm	1200X680X270							
Air flow(High)	m ³ /h	1000	1300	1300	1600	1600	1600	2000	2000
ESP (adjustable)	Pa	10 (0-50)							
Sound pressure level	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
Weight	kg	34.5	34.5	34.5	37	37	37	38	38
Connecbon pipe size	Liquid pipe	mm	φ9.52						
	Gas pipe	mm	φ15.88						
	Condensate drain pipe	mm	DN25						

Note: 1. TICA Hyplus IDU is compatible with TMS all series outdoor units

2. The sound pressure level and static pressure value are the data after the purification module is installed.



Intelligent Control

Provide you with convenient services

APP

Intelligent control

2048

IDUs centralized control



Individual controller



Centralized controller



Building Management System (BMS)



Software



► 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

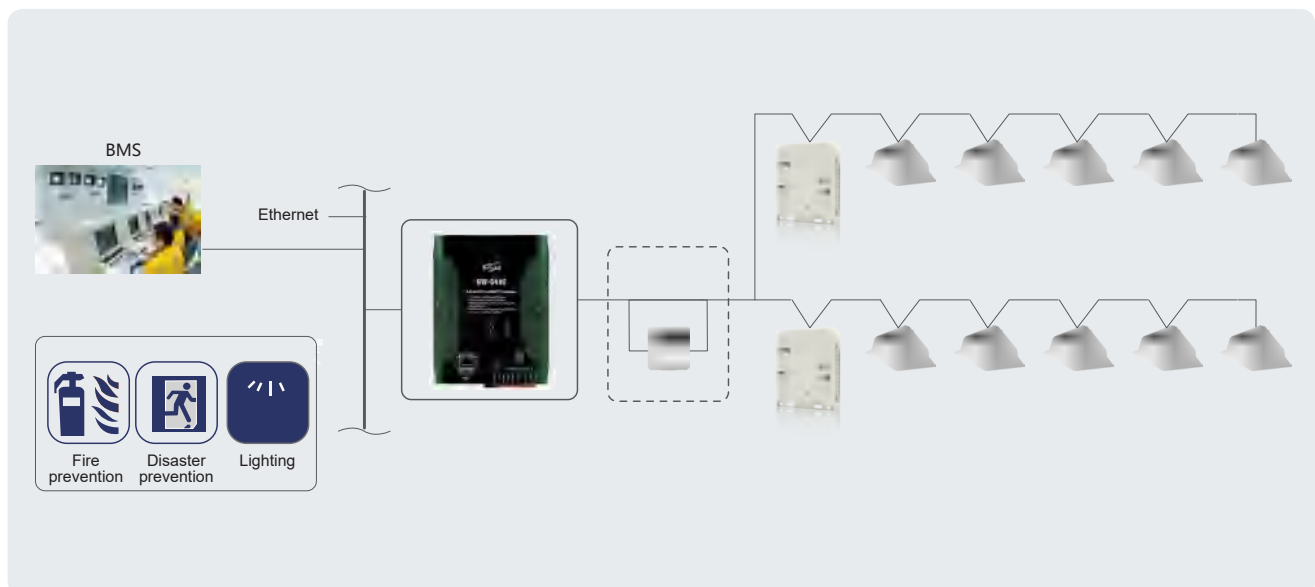
Building Management System (BMS)

- TMS 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

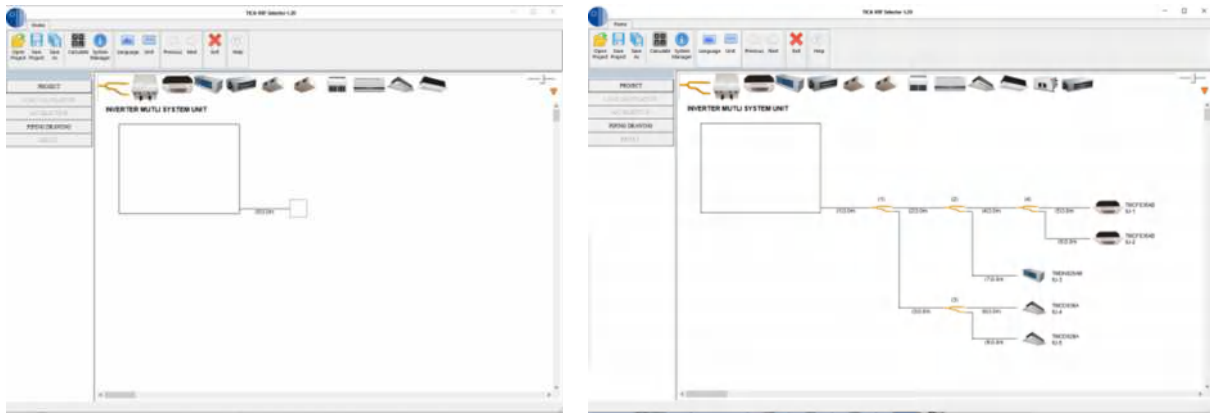
- 1 AC on/off, operation, and monitoring the operation status
- 2 Monitoring the IDU error code
- 3 Monitoring and setting the IDU temperature
- 4 Monitoring and switching the operating mode
- 5 Remote controller lock function
- 6 Service monitoring
- 7 Auto running
- 8 Mode lock function, user can lock the running mode of indoor unit
- 9 Free management by group
- 10 Complete schedule management
- 11 Historical data records
- 12 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.




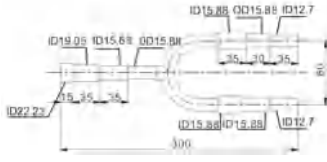
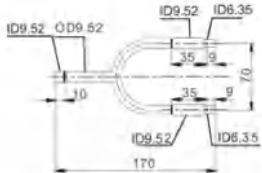
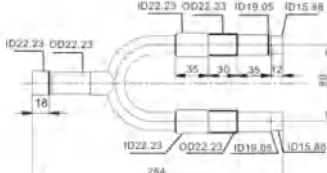
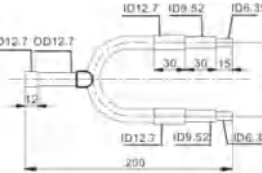
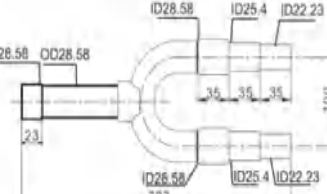
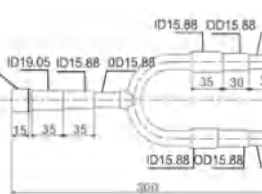
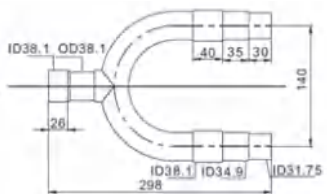
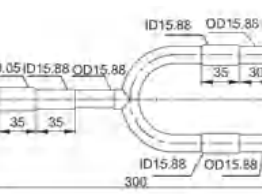
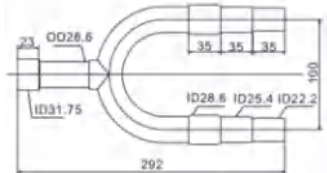
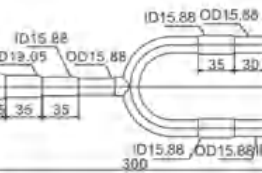
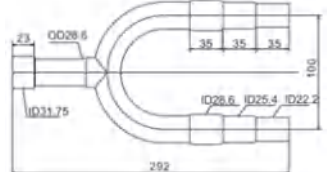
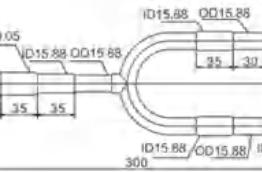
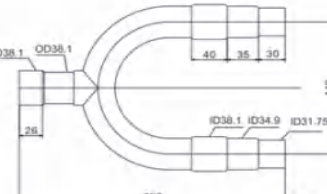
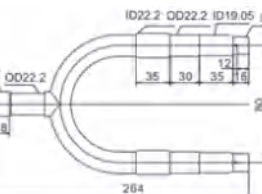
► Management software

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

Model	Appearance	Dimension	
		Gas side joints	Liquid side joints
TBP4022TA			
TBP4033TA			
TBP4072TA			
TBP4073TA			
TBP4090TA			
TBP4135TA			
			



Follow the Account of TICA to see more solutions

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E-mail: global@ticachina.com
Website: global.tica.com

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.