



Split System 6.25-20 Tons Light Commercial Inverter System TYH/MYV/TYE/CLCP/TYA R410A Series 50Hz









Light Commercial Inverter System

• The introduction of DC Inverter compressor driven by the most advanced control technology is designed to provide more precise operation and improved system efficiency to reach maximum SEER 12.7 (averagely improved 25% from Fixed speed type). The compressor speed is adapted to match the fluctuating cooling load of the buildings while ensuring the appropriate variable supply of cooling.

Space saving with Smaller Footprint

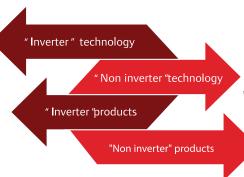
 Trane Synergy Inverter is designed for smaller condensing unit dimensions to save the installation space at maximum of 28% from current product.



DC Compressor Inverter

An inverter air conditioner with variable speed compressor, the speed and tonnage can be adjustable according to the cooling demand and load on the air conditioner.

More comfortable, energy saving ect.



Non inverter air conditioner with constant speed compressor and fan, the temperature is adjusted by turning the motor ON and OFF, which consumes more energy.

Simple, will stop and turn off once the room temperature falls to the desired level.



- **DC** inverter

High energy efficiency

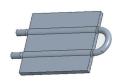
High reliability

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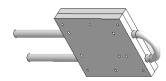
Low noise / vibration

High Reliability with New Refrigerant Cooled PCB Technology

 New full Package for top discharge and Micro Channel Radiator for side discharge design to enhance heat transfer and decrease temperature by 15 °C.







New for Top: Full Package



New for Side : Micro Channel Radiator

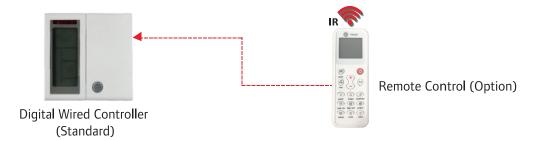


Easy service and maintenance

• Self-Diagnostic system shows error codes for the causes of malfunction which help reduce service time.

Completed DOL Standard and Controller

• Factory completed build-in DOL starter and digital wired controller.



TYH Air Handling Unit

- For horizontal air discharge.
- Power paint finished casing.
- Belt drive.
- Electronic Expansion Valve.
- Factory installed PCB, DOL starter and display wired controller.
- Suitable for ducted application (Fan motor hp output will be specially selected to properly match with Free blow application.)





TYA Condensing Unit

- Powder paint finished casing.
- External current overload for compressor.
- Temperature protection.
- Under and Over voltage protection.
- Fully charged R410A refrigerant with shut-off valve.
- · Hi/Low pressure.
- Phase protection.
- Cooled PCB.

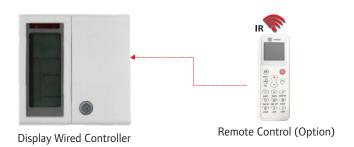






Digital Wired Control Standard

• The control panel of wire controller is responsible for controlling the operation status of the system by the button and displaying the working status of the entire system by its LCD screen, and is esponsible for communicating with the control board of the system.









LCD SCREEN

TURBO MODE

FAULT DISPLAY

Technique Index

- Temperature sensor: NTC.
- Temperature set range: 16-30 °C.
- · Compressor status.
- Signal Wire: Sheathed twisted pair cable, 24AWG.
- Size: $96.7 \times 95.7 \times 41.3$ mm. (Width \times High \times Thick).







CHILD LOCKED MODE

DAILYTIMER ON-OFF

WIRELESS REMOTE (OPTION)

Remote Control (Option)

- Wireless remote.
- Radiation distance: ≤ 10 meters.
- Temperature set range: 16-30 °C.

Weekly Schedule Wired Controller TM-ATOBR (Optional)

- The control panel of wire controller is responsible for controlling the operation status of the system by the button and displaying the working status of the entire system by its LCD screen and is responsible for communicating with the control board of the system.
- Weekly schedule wired controller is applied to industrial, commercial, and family room temperature control.



LCD Display



User Interface



LCD LARGE SCREEN



TOUCH BUTTON



IP20



TIMER AND



Technique Index

- Temperature sensor: NTC.
- Temperature display precision: ±0.5 ^oC.
- Temperature set range: 16-30 °C.
- Working environment: 0-50 °C.
- · IP Level: IP20.

WEEKLY

BUTTON LOCKED MODE

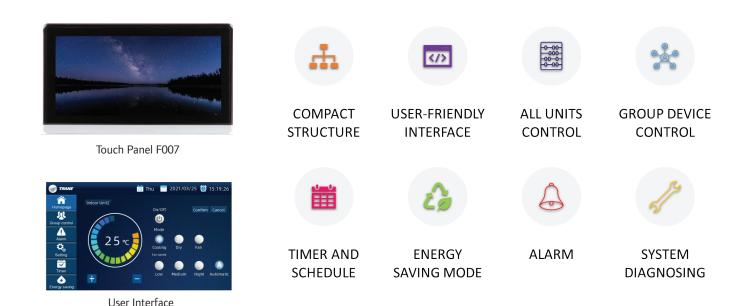
FAULT DISPLAY

- Signal Wire: Sheathed twisted pair cable, 24AWG.
- Size: 86×86×41.3 mm. (Width × High × Thick).

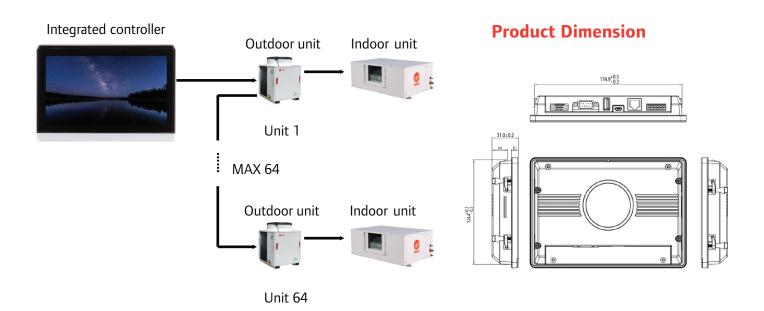


Touch Screen Centralized Control System (Optional)

- Touch screen centralized control system is the centralized management system of synergy system.
- For unit system, it can provide group configuration, schedule management, user operation, energy saving control and other functions.
- 7 inch Touch Screen Panel.



- Uses RS-485 network form, the structure is simple, the wiring is convenient and fast.
- Centralized touch screen, can control up to 64 sets.
- The longest transmission distance can reach 1,000 meters.





MYV Tall Floor Model

- New compact design that fits well for a variety of usages.
- Offers a silent operation with the Single Inlet Centrifugal Fan
- The front unit can be opened, making it easy for maintenance to be carried out without any space constraints.



TYE Air Handling Unit (Single skin)

- Vertical discharge.
- Forward curved centrifugal type evaporator fan(s) with fixed belt drive.
- Suitable for ducted application (Fan motor hp output will be specially selected to properly match with Free blow application.)



CLCP Air Handling Unit (Double skin)

- · Customizable for air discharge.
- · Belt drive.
- High Static Pressure.
- Suitable for ducted application (Fan motor hp output will be specially selected to properly match with application.)





TYA150JD-TYA200JD



TYA240JD

TYA Condensing Unit

- External current overload for compressor.
- Temperature protection.
- Under and Over voltage protection.
- Hi/Low pressure.
- Phase protection.
- Cooled PCB.
- Fully charged R410A refrigerant with shut-off valve.

System Performance Table

Indoor model	Indoor motor (HP)	Outdoor model	Capacity (MBH)	
MYV090	Direct drive motor	TYA 075JD	75	
MYV090	Direct drive motor	TYA 100JD	100	
MYV120	Direct drive motor	TYA 120JD	120	
CLCP004	2	TYA 075JD	75	
CLCP006	2	TYA 100JD	100	
TYE120	2	TYA 120JD	120	
TYE160	2	TYA 150JD	150	
TYE210	3	TYA 200JD	200	
TYE240	5.5	TYA 240JD	240	
CLCP008	2	TYA 120JD	120	
CLCP010	2	TYA 150JD	150	
CLCP012	3	TYA 200JD	200	
CLCP014	5.5	TYA 240JD	240	



Product Specifications (TYH Model)

UNIT MODELS	Indoor unit Outdoor unit		TYH075JD	TYH100JD	TYH120JD	TYH160JD	TYH200JD	TYH240JD		
			TYA075JD	TYA100JD	TYA120JD	TYA150JD	TYA200JD	TYA240JD		
Electrical Data	Power Supply	V/Ph/Hz								
Performance data	Cooling Capacity (Min-Max)	Btu/h	75,000 (35,000-80,000)	100,000 (40,000-100,000)	120,000 (48,000-120,000)	150,000 (60,000-150,000)	200,000 (80,000-200,000)	240,000 (96,000-240,000)		
	SEER	Btu/h/W	11.6	12.36	12.73	11.51	11.55	12.07		
	Nominal Airflow	CFM	2,500	3,400	4,000	5,300	7,000	8,000		
System data	Refrigerant Type		2,000	R410A (Fully charged)						
	No. Refrigeant Circuits		1	1	1	1	1	1		
	Refrigerant Connection Type		BRAZE	BRAZE	BRAZE	BRAZE	BRAZE	BRAZE		
	Suction Line OD	in (mm)	7/8"	7/8"	1 1/8"	1 1/8"	1 3/8"	1 5/8"		
	Liauid Line OD	in (mm)	3/8"	1/2"	1/2"	5/8"	5/8"	5/8"		
	Drain Connection Size	in (mm)	1 (25.4)	1 (25.4)	1 (25.4)	1 (25.4)	1 (25.4)	1 (25.4)		
	Drain Connection Type	,	Steel Pipe - MPT							
Indoor Units			,							
Flow control	Type				Electronics Ex	pansion Valve				
Fan	Fan Type		Double Inlet Centrifugal with Forward Curved Wheel							
	Qty		1	2 2		2	2	2		
	Drive Type		Belt - Drive							
Fan Motor	Output	Hp (kW)	1 (0.75)	2 (1.5)	2 (1.5)	2 (1.5)	3 (2.2)	5.5 (4.0)		
	Qty x RLA		1.99	3.48	3.48	3.48	4.9	8.56		
Filter	Туре				1 - In Thickness W	ashable Aluminium	-			
Dimension (HxWxD)	Unit (Net)	mm	520x1,465x916		849x2,366x1,319					
Weight	Unit (Net)	kg	94	138	143	175	235	290		
Outdoor Units										
Compressor	Туре		Twin Rotary DC Inverter				Scroll DC Inverter	Twin Rotary DC Inverter		
	Qty x RLA		17.5	22.5	27.5	37	41.5	2 x 27.5		
Fan	Fan Type			•	Prop	•				
	Qty		1	1	1	1	1	2		
Fan Motor	Туре			•	•					
	Output	Watt	650	650	650	1050	1580	2 x 650		
	Qty x RLA		1.5	1.5	1.5	2.1	3.1	2 x 1.5		
Dimension (HxWxD)	Unit (Net)	mm	1,215x	900x841	1,382x900x841	1,370x1,040x1,090		1,378x1,792x881		
Weight	Unit (Net)	kg	140	141	152	175	200	290		

Product Specifications (MYV/CLCP Model)

UNIT MODELS	Indoor unit Outdoor unit		CLCP004	MYV090	CLCP006	MYV090	CLCP008	MYV120			
			TYA75JD	TYA75JD	TYA100JD	TYA100JD	TYA120JD	TYA120JD			
Electrical Data	Power Supply	V/Ph/Hz			380-41	15/3/50					
Performance data	Cooling Capacity	Btu/h	75,000	75,000	100,000	100,000	120,000	120,000			
	Nominal Airflow	CFM	2,161	2,000	3,072	2,000	3,941	2,400			
System data	Refrigerant Type			R410A							
	No. Refrigeant Circuits		1	1 1		1	1	1			
	Refrigerant Connection Type		BRAZE	Sweat	BRAZE	Sweat	BRAZE	Sweat			
	Suction Line OD	in (mm)	7/8"	7/8"	7/8"	7/8"	1-1/8"	1-1/8"			
	Liquid Line OD	in (mm)	3/8"	3/8"	1/2"	1/2"	1/2"	1/2"			
Indoor Units		•									
Flow control	Type			Thermostatic Expansion Valve							
Fan	Fan Type		Forward Curved Centrifugal	Single Inlet Centrifugal	Forward Curved Centrifugal	Single Inlet Centrifugal	Forward Curved Centrifugal	Single Inlet Centrifugal			
	Qty		1	2	1	2	1	2			
	Drive Type		Direct drive	Direct drive	Belt - Drive	Direct drive	Belt - Drive	Direct drive			
Fan Motor	Output	Watt	1,500	2 x 122	2,200	2 x 122	3,000	2 x 211			
	Qty x RLA	Amp	-	2 x 1.78	-	2 x 1.78	-	2 x 2.34			
Filter	Туре		1 - In Thickness Washable Aluminium	Polypropylene	1 - In Thickness Washable Aluminium	Polypropylene	1 - In Thickness Washable Aluminium	Polypropylene			
Dimension (HxWxD)	Unit (Net)	mm	868x1,058x1,368	1,900x1,196x400	868x1,368x1,368	1,900x1,196x400	868x1,678x1,368	1,900x1,196x400			
Weight	Unit (Net)	kg	200	136.3	260	136.3	300	143.3			
Outdoor Units											
Compressor	Туре		Twin Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter			
	Qty x RLA		17.5	17.5	22.5	22.5	27.5	27.5			
Fan	Fan Type			Propeller							
	Qty		1	1	1	1	1	1			
Fan Motor	Type			AC motor							
	Output	Watt	650	650	650	650	650	650			
	Qty x RLA		1.5	1.5	1.5	1.5	1.5	1.5			
Dimension (HxWxD)	Unit (Net)	mm	1,215x900x841	1,215x900x841	1,215x900x841	1,215x900x841	1,382x900x841	1,382x900x841			
Weight	Unit (Net)	kg	140	140	141	141	152	152			

Product Specifications (TYE/CLCLP Model)

UNIT MODELS	Indoor unit Outdoor unit		TYE120	CLCP010	TYE160	CLCP012	TYE210	CLCP014	TYE240		
			TYA120JD	TYA150JD	TYA150JD	TYA200JD	TYA200JD	TYA240JD	TYA240JD		
Electrical Data	Power Supply	V/Ph/Hz									
Performance data	Cooling Capacity	Btu/h	120,000	150,000	150,000	200,000	200,000	240,000	240,000		
	Nominal Airflow	CFM	4,000	4,873	5,300	6,271	7,000	7,669	8,000		
System data	Refrigerant Type		R410A								
	No. Refrigeant Circuits		1	1	1	1	1	1	1		
	Refrigerant Connection Type		BRAZE								
	Suction Line OD	in (mm)	1-1/8"	1-1/8"	1-1/8"	1-3/8"	1-3/8"	1-3/8"	1-3/8"		
	Liquid Line OD	in (mm)	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"		
	Drain Connection Size	in (mm)	1 (25.4)		1 (25.4)		1 (25.4)				
	Drain Connection Type			•	•	Steel Pipe - MPT	•	•			
Indoor Units		,									
Flow control	Туре				Ther	mostatic Expansion	Valve				
Fan	Fan Type		Forward Curved Centrifugal								
	Qty		1	1	1	1	2	1	2		
	Drive Type		Belt - Drive								
Fan Motor	Output	Watt	1,492	5,500	1,492	5,500	2,238	5,500	4,103		
	Qty x RLA	Amp	3.67	-	4.90	-	4.90	=	8.56		
Filter	Туре			•	1 - In Th	ickness Washable A	luminium				
Dimension (HxWxD)	Unit (Net)	mm	1,523x1,410x635	1,178x1,368x1,523	1,751x1,613x850	1,178x1,678x1,523	1,751x2,210x702	1,178x1,988x1,523	1,751x2,210x702		
Weight	Unit (Net)	kg	154	330	275	420	356	470	365		
Outdoor Units	•										
Compressor	Туре		Twin Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter	Scroll DC Inverter	Scroll DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter		
	Qty x RLA		27.5	37	37	41.5	41.5	2 x 27.5	2 x 27.5		
Fan	Fan Type		Propeller								
	Qty		1	1	1	1	1	2	2		
Fan Motor	Туре		AC motor								
	Output	Watt	650	1,050	1,050	1,580	1,580	2 x 650	2 x 650		
	Qty x RLA		1.5	2.1	2.1	3.1	3.1	2 x 1.4	2 x 1.4		
Dimension (HxWxD)	Unit (Net)	mm	1,382x900x841	1,370x1,040x1,090	1,370x1,040x1,090	1,370x1,040x1,090	1,370x1,040x1,090	1,378x1,792x881	1,378x1,792x881		
Weight	Unit (Net)	kg	152	175	175	200	200	290	290		

Note: 1. Capacity is rated at AR conditions of 80° / 67° FDB/FWB for Indoor & 95° FDB for Outdoor.

- 2. Outdoor unit dimensions depth is not included the dimensions of unit's legs.
- 3. Product design and specification are subject to change without notice.
- 4. The actual sizing of CLCP model is depends on the design airflow cfm.















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