



Split System 6.25-20 Tons
Light Commercial Inverter System
TYH/MYV/TYE/CLCP/TYA/TYK
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 14.5 (averagely improved 42% 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

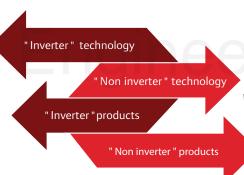
 Trane Synergy Inverter is designed for smaller condensing unit dimensions to save the installation space at maximum of 28% from current product.



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
 - 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 area and decrease temperature by 15 °C.







Old : Crimping New for Top : Full Package

New for Side : Micro Channel Radiator

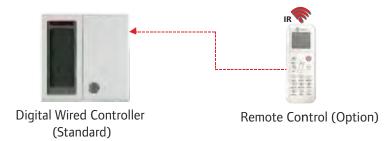


Easy service and maintenance

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

Completed DOL Starter and Controller

• Factory completed build-in DOL starter and digital wired controller. AHU starter shall be save for units with capacity not over than 240,000 Btu/h.



TYH Air Handling Unit

- For horizontal air discharge.
- · Powder 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).





TYK/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.
- Refrigerant Cooled PCB.



TYKB60TD



TYA075-200JD (1FAN)

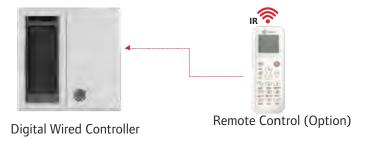


TYA240JD (2FAN)



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 responsible 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℃.

· Compressor status.

• Signal Wire: Sheathed twisted pair cable, 24 AWG.

• Size: 96.7x95.7x41.3 mm. (Width x Hight x Thick).







CHILD LOCKED MODE

DAILY TIMER ON-OFF

WIRELESS REMOTE (OPTION)

Remote Control (Option)

Wireless remote.

Radiation distance: ≤ 10 meters.

Temperature set range: 16-30℃.

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 LARGE SCREEN

TOUCH BUTTON

IP20





Technique Index

Temperature sensor: NTC.

Temperature display precision: ±0.5 °C.

Temperature set range: 16-30℃.

Working environment: 0-50°C.

· IP Level: IP20.

TIMER AND WEEKLY SCHEDULE BUTTON LOCKED MODE FAULT DISPLAY

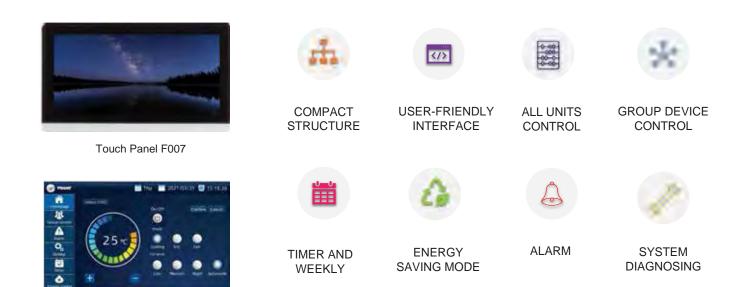
Signal Wire: Sheathed twisted pair cable, 24 AWG.

Size: 86x86x41.3 mm. (Width x High x Thick).



Touch Screen Centralized Control System (Optional)

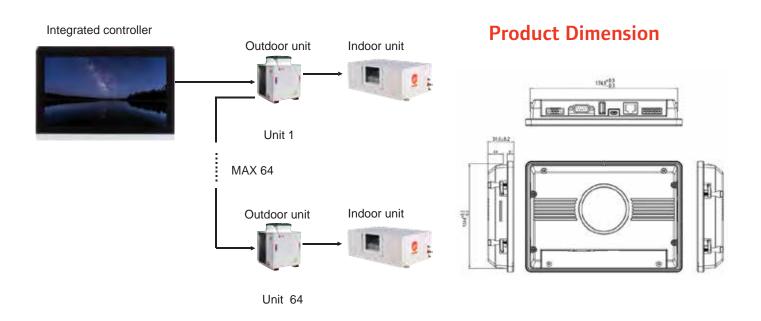
- Touch screen centralized control system is the centralized management system of synergy system.
- For unit system, it can provide group configuration, schedule management, user operation, energy saving control and other functions.
- 7 inch Touch Screen Panel.



- Uses RS-485 network from, the structure is simple, the wiring is convenient and fast.
- Centralized touch screen, can control up to 64 stes.

User Interface

• 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.)









TYKB60TD TYA075JD-TYA200JD TYA240JD

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TYK/TYA Condensing Unit

- External current overload for compressor.
- Temperature protection.

- Hi/Low pressure.
- Phase protection.
- Under and Over voltage protection.
- Fully charged R410A refrigerant with shut-off valve.
- Refrigerant Cooled PCB.

System Performance Table

| Indoor model | Indoor motor (HP) | Outdoor model | Capacity (MBH) | |
|--------------|--------------------|---------------|----------------|--|
| MYV060 | Direct drive motor | TYKF 60TD | 60 | |
| 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 | | TYH060JD | TYH075JD | TYH100JD | TYH120JD | TYH160JD | TYH210JD | TYH240JD | |
|-------------------|-------------------------------|--------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--|
| UNII MODELS | | | TYKB60TD | TYA075JD | TYA100JD | TYA120JD | TYA150JD | TYA200JD | TYA240JD | |
| Electrical Data | Power Supply | V/Ph/Hz 380-415/3/50 | | | | | | | | |
| Performance data | Cooling Capacity (Min-Max) | Btu/h | 60,000 (30,000-65,000) | 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 | 15.2 | 11.6 | 12.36 | 12.73 | 11.51 | 11.55 | 12.07 | |
| | Nominal Airflow | CFM | 2,000 | 2,500 | 3,400 | 4,000 | 5,300 | 7,000 | 8,000 | |
| System data | Refrigerant Type | | R410A (Fully charged) | | | | | | | |
| | No. Refrigerant Circuits | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | Refrigerant Connection Type | | BRAZE | BRAZE | BRAZE | BRAZE | BRAZE | BRAZE | BRAZE | |
| | Suction Line OD | in (mm) | 7/8" | 7/8" | 7/8" | 11/8" | 11/8" | 13/8" | 15/8" | |
| | Liquid Line OD | in (mm) | 3/8" | 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) | 1 (25.4) | |
| | Drain Connection Type | | Steel Pipe - MPT | | | | | | | |
| Indoor Units | | | | | | | | | | |
| Flow control | Туре | | | | Elec | tronics Expansion | Valve | | | |
| Fan | Fan Type | | Double Inlet Centrifugal with Forward Curved Wheel | | | | | | | |
| | Qty | | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | Drive Type | | Belt - Drive | | | | | | | |
| Fan Motor | Output | Hp (kW) | 3/4 (0.55) | 1 (0.75) | 2 (1.5) | 2 (1.5) | 2 (1.5) | 3 (2.2) | 5.5 (4.0) | |
| | Qty x RLA | | 1.61 | 1.99 | 3.48 | 3.48 | 3.48 | 4.9 | 8.56 | |
| Filter | Туре | | | | 1-In Thi | kness Washable A | luminium | | | |
| Dimension (HxWxD) | Unit (Net) | mm | 520x1,465x916 | 520x1,465x916 520x1,465x916 521x1,833x916 620x1,833x916 798x2,088x1,260 | | 798x2,088x1,260 | 849x2,366x1,319 | | | |
| Weight | Unit (Net) | kg | 90 | 94 | 138 | 143 | 175 | 235 | 290 | |
| Outdoor Units | | | | | | | | | | |
| Compressor | | Twin Rotary DC Inverter Scroll DC Inverter Twin Rotary DC Inverter | | | | | | | | |
| · | Type Qty x RLA | | 9.8 | 14.5 | 19.0 | 22.9 | 31.3 | 35.3 | 2 x 23.7 | |
| Fan | Fan Type | | Propeller | | | | | | | |
| | Hot Air Discharge Direction | | Horizontal (Front) Vertical (Top) | | | | | | | |
| | Qty | | 2 | 1 | 1 | 1 | 1 | 1 | 2 | |
| Fan Motor | Type | | DC motor | | | | | | | |
| . a.i.iiioto. | Output | Watt | 100 | 650 | 650 | 650 | 1,050 | 1,580 | 2 x 650 | |
| | Qty x RLA | | 2x1.26 | 1.5 | 1.5 | 1.5 | 1.9 | 3.6 | 2 x 1.5 | |
| Dimension (HxWxD) | Unit (Net) | mm | 1,430x940x340 1,215x900x841 | | 900x841 | 1,382x900x841 | 1,370x1, | 040x1,090 | 1,378x1,792x881 | |
| Weight | Unit (Net) | kg | 102 | 140 | 141 | 152 | 175 | 200 | 290 | |

Product Specifications (MYV/CLCP Model)

| LINIT MODELS | Indoor unit Outdoor unit | | MYB060BB | CLCP004 | MYV090JB | CLCP006 | MYV090JB | CLCP008 | MYV120JB | | |
|-------------------|-----------------------------|---------|-----------------------------------|--------------------------------------|-----------------------------|--------------------------------------|-----------------------------|--------------------------------------|-----------------------------|--|--|
| UNIT MODELS | | | TYKB60TD | TYA075JD | TYA75JD | TYA100JD | TYA100JD | TYA120JD | TYA120JD | | |
| Electrical Data | Power Supply | V/Ph/Hz | 380-415/3/50 | | | | | | | | |
| Performance data | Cooling Capacity | Btu/h | 60,000 | 75,000 | 75,000 | 100,000 | 100,000 | 120,000 | 120,000 | | |
| | Nominal Airflow | CFM | 2,000 | 2,500 | 2,500 | 3,400 | 3,400 | 4,000 | 4,000 | | |
| System data | Refrigerant Type | | R410A (Fully charged) | | | | | | | | |
| | No. Refrigerant Circuits | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | Refrigerant Connection Type | | BRAZE | BRAZE | Sweat | BRAZE | Sweat | BRAZE | Sweat | | |
| | Suction Line OD | in (mm) | 7/8" | 7/8" | 7/8" | 7/8" | 7/8" | 1-1/8" | 1-1/8" | | |
| | Liquid Line OD | in (mm) | 3/8" | 3/8" | 3/8" | 1/2" | 1/2" | 1/2" | 1/2" | | |
| Indoor Units | | | ' | | | | | | | | |
| Flow control | Туре | | | | Elec | tronics Expansion | Valve | | | | |
| Fan | Fan Type | | Single Intel Centrifugal | Forward Curved Centrifugal | Single Intel Centrifugal | Forward Curved Centrifugal | Single Intel Centrifugal | Forward Curved Centrifugal | Single Intel Centrifugal | | |
| | Qty | | 1 | 1 | 2 | 1 | 2 | 1 | 2 | | |
| | Drive Type | | Direct Drive | Belt - Drive | Direct Drive | Belt - Drive | Direct Drive | Belt - Drive | Direct Drive | | |
| Fan Motor | Output | Watt | 220 | 1,500 | 2x150 | 2,200 | 2 x150 | 3,000 | 2x200 | | |
| | Qty x RLA | | 1.65 | - | 2x1.78 | - | 2x1.78 | - | 2x2.34 | | |
| Filter | Туре | | Polypropylene | 1-In Thickness Washable Aluminium | Polypropylene | 1-In Thickness Washable Aluminium | Polypropylene | 1-In Thickness Washable Aluminium | Polypropylene | | |
| Dimension (HxWxD) | Unit (Net) | mm | 1,900x848x400 | 868x1,058x1,368 | 1,900x848x400 | 868x1,058x1,368 | 1,900x848x400 | 868x1,058x1,368 | 1,900x848x400 | | |
| Weight | Unit (Net) | kg | 100 | 200 | 136.3 | 260 | 136.3 | 300 | 143.3 | | |
| Outdoor Units | | | | | | | | | | | |
| Compressor Type | | | Twin Rotary DC Inverter | | | | | | | | |
| | Qty x RLA | | 9.8 | 14.5 | 14.5 | 19.0 | 19.0 | 22.9 | 22.9 | | |
| Fan | Fan Type | | Propeller | | | | | | | | |
| | Hot Air Discharge Direction | | Horizontal (Front) Vertical (Top) | | | | | | | | |
| | Qty | | 2 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| Fan Motor | Туре | | DC motor AC motor | | | | | | | | |
| | Output | Watt | 100 | 650 | 650 | 650 | 650 | 650 | 650 | | |
| | Qty x RLA | | 2x1.26 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | | |
| Dimension (HxWxD) | Unit (Net) | mm | 1,430x940x340 | 1,215x900x841 | 1,215x900x841 | 1,215x900x841 | 1,215x900x841 | 1,382x900x841 | 1,382x900x841 | | |
| Weight | Unit (Net) | kg | 102 | 140 | 140 | 141 | 141 | 152 | 152 | | |

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Product Specifications (TYE/CLCP Model)

| LINITALODELS | Indoor unit Outdoor unit | | TYE120JD | CLCP010 | TYE160JD | CLCP012 | TYE210JD | CLCP014 | TYE240JD | | |
|-------------------|-----------------------------|---------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|--|--|
| UNIT MODELS | | | TYA120JD | TYA150JD | TYA150JD | TYA200JD | TYA200JD | TYA240JD | TYA240JD | | |
| Electrical Data | Power Supply | V/Ph/Hz | | 380-415/3/50 | | | | | | | |
| 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 | 5,000 | 5,000 | 7,000 | 7,000 | 8,000 | 8,000 | | |
| System data | Refrigerant Type | | R410A (Fully charged) | | | | | | | | |
| | No. Refrigerant 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" | | |
| Indoor Units | | | | | | | | | | | |
| Flow control | Туре | | | | Therr | nostatic Expansior | 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 | | 3.67 | - | 4.90 | - | 4.90 | - | 8.56 | | |
| Filter | Туре | | | 1 | 1-In Thic | kness 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 Inv | | rter | Scroll DC Inverter | | Twin Rotary DC Inverter | | | |
| | Qty x RLA | | 22.9 | 31.3 | 31.3 | 35.3 | 35.3 | 23.7 | 23.7 | | |
| Fan | Fan Type | | Propeller | | | | | | | | |
| | Qty | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| Fan Motor | Туре | | AC motor | | | | | | | | |
| | Output | Watt | 650 | 1,050 | 1,050 | 1,580 | 1,580 | 2x650 | 2x650 | | |
| | Qty x RLA | | 1.5 | 1.9 | 1.9 | 3.6 | 3.6 | 2x1.5 | 2x1.5 | | |
| 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 ARI conditions of 80 °FDB /67 °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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