TRANE

# PRIMER
## Inverter

*HIGH EFFICIENCY INVERTER*
*Split System 5-10 Tons DC Motor AHU*
*Light Commercial*
*TYH/TYK/TYA R32/R410A Series 50Hz*

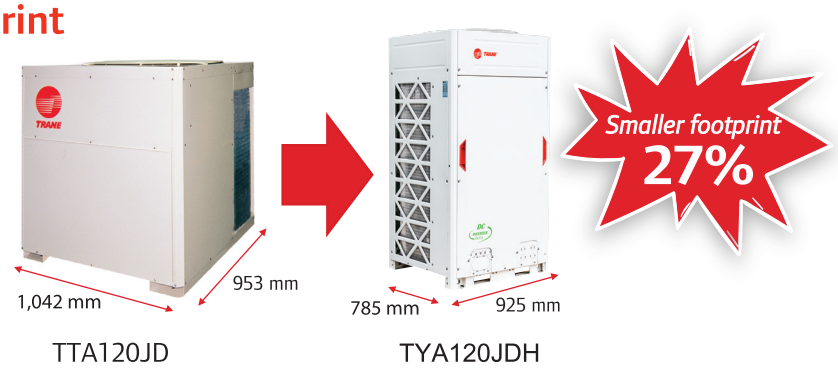
TRANE TECHNOLOGIES

## High Energy Efficiency System

• The introduction of a high efficiency 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 18.0 (averagely improved 60% 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

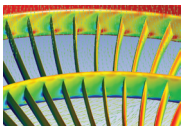
• Trane PRIMER Inverter is designed for smaller condensing unit dimensions to save the installation space at maximum of 27% from current product.

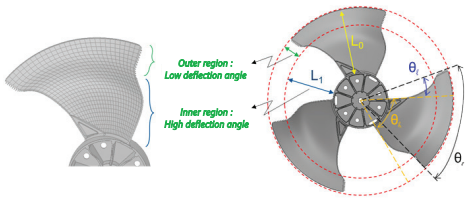



TTA120JD TYA120JDH

## Low Operation Sound Noise

• Trane PRIMER Inverter optimally designed fan shape, new designed discharge air grille and air deflector together supply higher air volume and lower operation sound.



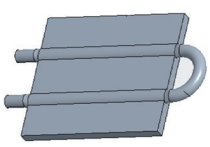



## External Static Pressure of Outdoor Units Up to 40Pa

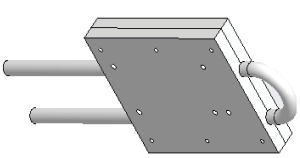
• DC fan motor can enhance External Static Pressure of the outdoor fan. Be adjustable up to maximum 40 Pa which can apply discharge duct for hot air to avoid obstruction in front of the outdoor unit.

## High Reliability with New Refrigerant Cooled PCB Technology

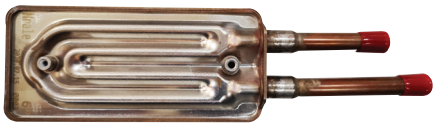
• New full Package for top discharge and Micro Channel Radiator for side discharge design to enhance heat transfer area and decrease temperature by 15 °C.



**Old : Crimping**



**New for Top : Full Package**

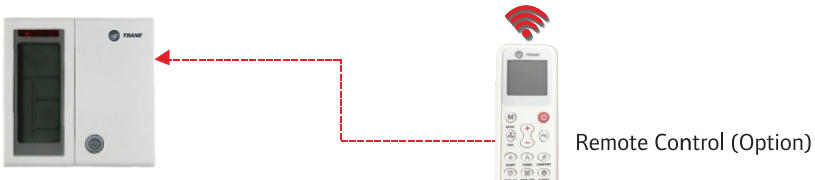


**New for Side : Micro Channel Radiator**

## Easy service and maintenance

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

## Digital Wired Control Standard



Digital Wired Controller (Standard)

Remote Control (Option)

## Weekly Schedule Wired Controller TM-AT0BR (Optional)

LCD Display

User Interface

## TYH Air Handling Unit

- For horizontal air discharge.
- Powder paint finished casing.
- Direct drive with DC motor.
- Electronic Expansion Valve.
- Factory installed PCB and display wired controller.
- Suitable for free blow application.

TYH060QBH

TYH120NBH

## TYK/TYA Condensing Unit

- Powder paint finished casing.
- External current overload for compressor, Hi/Low pressure, temperature protection, phase protection (Missing phase/Phase loss/Under and Over voltage protection).
- Fully charged refrigerant with shut-off valve.

TYKF60TDH

TYA120JDH

# Product Specifications

| UNIT MODELS | Indoor unit | | TYH060QBH | TYH120NBH |
|---|---|---|---|---|
| | Outdoor unit | | TYKF60TDH | TYA120JDH |
| Performance Data | Cooling Capacity (Min-Max) | Btu/h | 60,000 (30,000-65,000) | 120,000 (50,000-126,000) |
| | SEER | Btu/h/W | 18 | 18 |
| | Nominal Airflow | CFM | 2,000 | 4,000 |
| System Data | Refrigerant Type | | R32 (Fully charged) | R410A (Fully charged) |
| | No. of Refrigerant Circuits | | 1 | 1 |
| | Refrigerant Connection Type | | BRAZE | BRAZE |
| | Suction Line OD | in (mm) | 3/4" | 1 1/8" |
| | Liquid Line OD | in (mm) | 3/8" | 1/2" |
| | Drain Connection Size | in (mm) | 1 (25.4) | 1 (25.4) |
| | Drain Connection Type | | Steel Pipe - MPT | |
| **Indoor Units** | | | | |
| Electrical Data | Power Supply | V/Ph/Hz | 220-240/1/50 | |
| Flow Control | Type | | Electronics Expansion Valve | |
| Fan | Fan Type | | DOUBLE INLET CENTRIFUGAL WITH FORWARD CURVED WHEEL | |
| | Qty | | 2 | 2 |
| | Drive Type | | Direct Drive | |
| Fan Motor | Type | | DC Motor | |
| | Output | kW | 0.56 | 0.55 |
| | Qty x RLA | A | 2.54 | 2x3.81 |
| Air Filter | Type | | 1-In Washable Aluminium Air Filter | |
| Dimension (HxWxD) | Unit (Net) | mm | 430x1,454x769 | 620x1,889x916 |
| Weight | Unit (Net) | kg | 65 | 143 |
| **Outdoor Units** | | | | |
| Electrical Data | Power Supply | V/Ph/Hz | 380-415/3/50 | |
| Compressor | Type | | Twin Rotary DC Inverter | |
| | Qty x RLA | | 9.8 | 20.25 |
| Fan | Type | | Propeller | |
| | Hot Air Discharge Direction | | Horizontal (Front) | Vertical (Top) |
| | Qty | | 1 | 1 |
| Fan Motor | Type | | DC Motor | |
| | Output | Watt | 250 | 750 |
| | Qty x RLA | A | 2.2 | 3.43 |
| Dimension (HxWxD) | Unit (Net) | mm | 998x940x340 | 1,720x925x785 |
| Weight | Unit (Net) | kg | 72 | 215 |

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.

TRANE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