



# ODYSSEY



*Split System 5-20 Tons  
Light Commercial  
TTA/TTH R410A Series 50Hz*

TRANE  
TECHNOLOGIES



# Odyssey R410A

## Cool You, Cool The Earth

New design of industrial air conditioner with non-ozone depletion refrigerant R410A to provide steady comfort with reliability and flexibility for all applications in split air conditioning system together with effort to cool down the earth and protect our environment.



## Maximum Performance

- Lower noise operation and higher efficiency with new generation scroll compressor.
- Single rotating assembly minimizes the friction and mechanical losses.

## Quality and Reliability

- Scroll compressors are applied with excellent reliability and high efficiency.
- All units are 100% run tested prior to leaving the production line.
- Protect compressor damage from unstable electrical source or mis-phase connection with under/over voltage phase protection device.
- Better protection of your health with improved IQA by PM 2.5 filter (option).

## Ease of Service

- Service shut-off valve.
- Single side access on condenser.
- Multiple removable panels on AHU.
- Colored and numbered wiring.

## TTH Air Handling Unit

- For horizontal air discharge.
- Power paint finished casing.
- Belt drive.
- Thermal expansion device.
- Fan motor hp output will be specially selected to properly match with Free Blow application.

## TTA Condensing Unit

- Power paint finished casing.
- External current overload for compressor with under/over voltage & phase protector.
- Refrigerant shut-off valve.
- High & low pressure switch.



## Product Specifications

| Models                                      | Indoor unit              |         | TTH060JD                          | TTH075JD | TTH100JD            | TTH120JD | TTH160JD            | TTH180JD | TTH210JD              | TTH240JD |
|---------------------------------------------|--------------------------|---------|-----------------------------------|----------|---------------------|----------|---------------------|----------|-----------------------|----------|
|                                             | Outdoor unit             |         | TTKB60KD                          | TTA075JD | TTA100JD            | TTA120JD | TTA150JD            | TTA180JD | TTA200JD              | TTA240JD |
| Performance Data                            | Nominal Cooling Capacity | Btu/h   | 60,000                            | 75,000   | 100,000             | 120,000  | 150,000             | 180,000  | 200,000               | 240,000  |
|                                             | Nominal Airflow          | CFM     | 2,000                             | 2,500    | 3,400               | 4,000    | 5,300               | 6,000    | 7,000                 | 8,000    |
| Indoor Units                                |                          |         |                                   |          |                     |          |                     |          |                       |          |
| Electrical Data                             | Power Supply             | V/ph/Hz | 380-415/3/50                      |          |                     |          |                     |          |                       |          |
| No. of Refrigerant Circuit                  |                          |         | 1                                 | 1        | 1                   | 1        | 2                   | 2        | 2                     | 2        |
| Expansion Device                            | Type                     |         | Thermostatic Expansion Valve      |          |                     |          |                     |          |                       |          |
| Fan                                         | Type                     |         | Forward Curve Centrifugal Fan     |          |                     |          |                     |          |                       |          |
|                                             | Qty                      |         | 1                                 | 1        | 2                   | 2        | 2                   | 2        | 2                     | 2        |
| Fan Motor                                   | Output                   | hp      | 3/4                               | 1        | 2                   | 2        | 2                   | 3        | 3                     | 5.5      |
|                                             | RLA x Qty                | A       | 1.61                              | 1.99     | 3.48                | 3.48     | 3.48                | 4.90     | 4.90                  | 8.56     |
| Pre-Filter                                  | Type                     |         | 1-in Thickness Washable Aluminium |          |                     |          |                     |          |                       |          |
| Dimensions                                  | H x W x D                | mm      | 520 x 1,406 x 916                 |          | 565x1,774x916       |          | 798x2,059x1,260     |          | 849x2,366x1,319       |          |
| Weight                                      |                          | kg      | 87                                | 92       | 136                 | 141      | 180                 | 189      | 214                   | 240      |
| Refrigerant Pipe Size<br>(per each circuit) | Liquid                   | in      | 3/8                               | 1/2      | 1/2                 | 1/2      | 1/2                 | 1/2      | 1/2                   | 1/2      |
|                                             | Suction                  | in      | 1-1/8                             | 1-1/8    | 1-1/8               | 1-3/8    | 1-1/8               | 1-1/8    | 1-1/8                 | 1-3/8    |
| Outdoor Units                               |                          |         |                                   |          |                     |          |                     |          |                       |          |
| Electrical Data                             | Power Supply             | V/ph/Hz | 380-415/3/50                      |          |                     |          |                     |          |                       |          |
| No. of Refrigerant Circuit                  |                          |         | 1                                 | 1        | 1                   | 1        | 1                   | 1*       | 1*                    | 1*       |
| Compressor                                  | Type                     |         | Hermetic Scroll                   |          |                     |          |                     |          |                       |          |
|                                             | RLA x Qty                | A       | 9.8                               | 12.4     | 17.6                | 19.8     | 26.3                | 14.7x2   | 17.5x2                | 19.8x2   |
| Fan Motor                                   | RLA x Qty                | A       | 0.88 x 2                          | 1.5      | 1.5                 | 1.5      | 1.5                 | 1.5 x 2  | 1.5 x 2               | 1.5 x 2  |
| Dimensions                                  | H x W x D                | mm      | 1,254 x 988 x 350                 |          | 1,070 x 1,042 x 953 |          | 1,270 x 1,242 x 953 |          | 1,050 x 2,200 x 1,050 |          |
| Weight                                      |                          | kg      | 95                                | 170      | 186                 | 199      | 245                 | 415      | 428                   | 462      |
| Piping Connection Type                      |                          |         | Shut-off Valve - Braze Connection |          |                     |          |                     |          |                       |          |
| Refrigerant Pipe Size                       | Liquid                   | in      | 1/2                               | 1/2      | 1/2                 | 1/2      | 5/8                 | 5/8      | 5/8                   | 5/8      |
|                                             | Suction                  | in      | 7/8                               | 1-1/8    | 1-1/8               | 1-3/8    | 1-5/8               | 1-5/8    | 1-5/8                 | 1-5/8    |
| Refrigerant                                 |                          |         | R-410A                            |          |                     |          |                     |          |                       |          |

Note: 1. Capacity is rated at ARI conditions of 80°/67° FDB/FWB for Indoor & 95° FDB for Outdoor.  
2. Refrigerant R410A is holding charged for TTA and fully charged for TTK.  
3. For TTA180-240 (\*) dual circuit is optional.  
4. Outdoor unit dimensions depth is not include the dimensions of unit's legs.  
5. Design and specification are subject to change without notice.



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