

Odyssey Split System 5-20 Tons

Light Commercial TTA / TTH / TWE Series R407C, 50 Hz





ODYSSEY - with environmental friendly R407C refrigerant Split System Cooling Only Units

Cool You, Cool the Earth

A new design of industrial air conditioner with non-ozone depletion refrigerant R407C to provide steady comfort with reliability and flexibility for all applications in split air conditioning system together with the effort to cool down the earth and protect our environment.



Cool The Earth

Quality and Reliability

- Scroll compressors are available from 6 to 20 tons with excellent reliability and high efficiency.
- All units are 100 percent run tested prior to leaving the production line.

Manifolding Scroll Compressors (TTA150-240)

- The key to this system is an oil equalized line connecting the two compressors. In addition, the discharge lines are simply manifolded togethers.
- Efficiency and proven Technology. A manifolded set of compressors is more efficient at part load than the compressors with independent circuits.
- Manifolded to be single circuit provides cost and time saving for installation.

Maximum Efficiency

- Lower noise operation and higher efficiency with the new generation higher EER Scroll Compressor.
- 64% fewer parts than a comparable capacity reciprocating compressor.
- Single rotating assembly minimizes the friction and mechanical losses.
- Smooth operation, similar to a centrifugal compressor, give low torque variation and extend motor life, and minimal vibration reducing wear
- Solid mount with no internal suspension to be worn out.
- Integral inlet dirt separator removes contaminants.

 Rolling element bearings for higher efficiency reduced friction. No suction or discharge valves for improved efficiency compared to a reciprocating compressor.

Flexibility

Trane Split System offers single and dual compressors allowing the right equipment to be matched to the job application and save on operating cost.

Convertibility

Trane air handler (TWE Model) can easily be converted for vertical or horizontal airflow in free blow and ducted applications.

Ease of Service

Reduction of service time and cost through

- Single side access on condenser.
- Multiple removable panels on air handlers.
- Colored and numbered wiring.
- Service valves.

Trane Split System Units

- A reputation for quality and reliability.
- Improvements in efficiency, flexibility and installation.

System Performance Matrix

| Model | | Evaporator Total Capacity | | Sensible Capacity | | |
|----------|----------|---------------------------|-----|-------------------|--|--|
| Outdoor | Indoor | cfm | MBH | МВН | | |
| | | 2,000 | 72 | 45 | | |
| TTA075ED | TTH075ED | 2,500 | 75 | 49 | | |
| | | 3,000 | 78 | 52 | | |
| | | 2,700 | 96 | 62 | | |
| TTA100ED | TTH100ED | 3,400 | 100 | 68 | | |
| | | 4,100 | 103 | 72 | | |
| | | 3,200 | 115 | 75 | | |
| TTA120ED | TWE120ED | 4,000 | 120 | 82 | | |
| | | 4,800 | 124 | 88 | | |
| | | 4,300 | 145 | 103 | | |
| TTA150ED | TWE160ED | 5,300 | 150 | 114 | | |
| | | 6,300 | 156 | 120 | | |
| | | 4,800 | 172 | 111 | | |
| TTA180ED | TWE180ED | 6,000 | 180 | 121 | | |
| | | 7,200 | 186 | 131 | | |
| | | 5,600 | 193 | 135 | | |
| TTA200ED | TWE210ED | 7,000 | 200 | 150 | | |
| | | 8,400 | 207 | 160 | | |
| | | 6,400 | 227 | 140 | | |
| TTA240ED | TWE240ED | 8,000 | 240 | 151 | | |
| | | 9,600 | 250 | 161 | | |



Designed With Your Needs In Mind

General Data-Air Handler Units

| UNIT MODELS | | TTH075ED | TTH100ED | TWE120ED | TWE160ED | TWE180ED | TWE210ED | TWE240ED | |
|-----------------------------|---------|--|-------------------|--------------------|---------------------|---------------------|---------------------|---------------------|--|
| POWER CONNECTION | V/ph/Hz | 380-415/3/50 | 380-415/3/50 | 380-415/3/50 | 380-415/3/50 | 380-415/3/50 | 380-415/3/50 | 380-415/3/50 | |
| MCA ¹ | A | 2.5 | 4.6 | 4.6 | 4.6 | 6.4 | 6.4 | 10.0 | |
| SYSTEM DATA | | | | | | | | | |
| Refrigerant Type | | R407C | R407C | R407C | R407C | R407C | R407C | R407C | |
| No. Refrigerant Circuits | | 1 | 1 | 1 | 2 | 2 | 2 | 2 | |
| Refrigerant Connection Type | | BRAZE | BRAZE | BRAZE | BRAZE | BRAZE | BRAZE | BRAZE | |
| Suction Line OD | in (mm) | 1 1/8 (28.57) | 1 3/8 (34.93) | 1 3/8 (34.93) | 1 1/8 (28.57) | 1 3/8 (34.93) | 1 3/8 (34.93) | 1 3/8 (34.93) | |
| Liquid Line OD | in (mm) | 1/2 (12.7) | 1/2 (12.7) | 1/2 (12.7) | 1/2 (12.7) | 1/2 (12.7) | 1/2 (12.7) | 1/2 (12.7) | |
| COIL | | | | | | | | | |
| Tube Size OD | in (mm) | 3/8 (9.53) | 3/8 (9.53) | 3/8 (9.53) | 3/8 (9.53) | 3/8 (9.53) | 3/8 (9.53) | 3/8 (9.53) | |
| Rows | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Fins per inch | | 15 | 15 | 14 | 14 | 12 | 15 | 15 | |
| Refrigerant Flow Control | | EXPANSION VALVE | EXPANSION VALVE | EXPANSION VALVE | EXPANSION VALVE | EXPANSION VALVE | EXPANSION VALVE | EXPANSION VALVE | |
| 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 | | | PI | LASTIC - FEMALE PIF | PE | | |
| FAN | | | | | | | | | |
| Fan Type | | DOUBLE INLET CENTRIFUGAL WITH FORWARD CURVED WHEEL | | | | | | | |
| No. used | | 1 | 2 | 1 | 1 | 1 | 2 | 2 | |
| Drive Type | | | | BEI | LT - ADJUSTABLE DF | RIVE | | | |
| MOTOR | | | | | | | | | |
| No. of Motor | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Motor hp | hp (kW) | 1 (0.75) | 2 (1.5) | 2 (1.5) | 2 (1.5) | 3 (2.2) | 3 (2.2) | 5 (3.7) | |
| No. of Speed | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Motor Speed | rpm | 1400 | 1405 | 1405 | 1405 | 1425 | 1425 | 1440 | |
| V/ph/Hz | | 380-415/3/50 | 380-415/3/50 | 380-415/3/50 | 380-415/3/50 | 380-415/3/50 | 380-415/3/50 | 380-415/3/50 | |
| RLA / LRA | | 1.99 - 11.0 | 3.66 - 21.0 | 3.66 - 21.0 | 3.66 - 21.0 | 5.08 - 34.0 | 5.08 - 34.0 | 8.03 - 63.0 | |
| FILTER | | | | | | | | | |
| Туре | | WASHABLE ALUMINIUM AIR FILTER | | | | | | | |
| No. used | | 2 | 3 | 4 | 4 | 4 | 4 | 4 | |
| Size (WxLxD) | mm | 440 x 600 x 25 | 440 x 520 x 25 | 355 x 635 x 25 | 400 x 927 x 25 | 400 x 927 x 25 | 555 x 727 x 25 | 555 x 727 x 25 | |
| DIMENSION (HxWxD) | | | | | | | | | |
| Uncrated (Net) | mm | 520 x 1,312 x 841 | 520 x 1,680 x 841 | 1,523 x 1410 x 635 | 1,751 x 1,613 x 850 | 1,751 x 1,613 x 850 | 1,751 x 2,210 x 702 | 1,751 x 2,210 x 702 | |
| WEIGHT | | | | | | | | | |
| Uncrated (Net) | kg | 92 | 136 | 154 | 275 | 285 | 355 | 365 | |

¹MCA - Minimum Circuit Ampacity

Note: Product design and specification are subject to change without notice.

General Data - Condensing Units

| UNIT MODELS | | TTA075ED | TTA100ED | TTA120ED | TTA150ED | TTA180ED | TTA200ED | TTA240ED |
|------------------------------|-----------|---------------------|---------------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| POWER CONNECTION | V/ph/Hz | | | | 380-415/3/50 | | | |
| MCA ¹ | Α | 18.06 | 27.29 | 29.95 | 32.72 | 35.00 | 49.22 | 54.17 |
| SYSTEM DATA | | | | | | | | |
| No. Refrigerant Circuits | | 1 | 1 | 1 | 1* | 1* | 1* | 1* |
| Refrigerant Connection Type | | BRAZE | BRAZE | BRAZE | BRAZE | BRAZE | BRAZE | BRAZE |
| Refrigerant ² | | R407C | R407C | R407C | R407C | R407C | R407C | R407C |
| Suction Line OD ³ | in (mm) | 1 1/8 (28.6) | 1 3/8 (34.9) | 1 3/8 (34.9) | 1 5/8 (41.3) | 1 5/8 (41.3) | 1 5/8 (41.3) | 1 5/8 (41.3) |
| Liquid line OD ³ | in (mm) | 1/2 (12.7) | 1/2 (12.7) | 1/2 (12.7) | 5/8 (15.9) | 5/8 (15.9) | 5/8 (15.9) | 5/8 (15.9) |
| COMPRESSOR | | | | | | | | |
| Compressor Type | | | | | Hermetic Scroll | | | |
| No. Used | | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| V/ph/Hz | | 380/3/50 | 380/3/50 | 380/3/50 | 380/3/50 | 380/3/50 | 380/3/50 | 380/3/50 |
| RLA/LRA | | 13.6 / 98.0 | 20.7 / 130.0 | 22.9 / 145.0 | 13.6 / 98.0 | 14.3 / 130.0 | 20.7 / 130.0 | 22.9 / 145.0 |
| COIL | | | | | | | | |
| Tube Size OD | in (mm) | 3/8 (9.53) | 3/8 (9.53) | 3/8 (9.53) | 3/8 (9.53) | 3/8 (9.53) | 3/8 (9.53) | 3/8 (9.53) |
| Rows | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Fins per inch | | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| FAN | | | | | | | | |
| Fan Type | | Propeller | Propeller | Propeller | Propeller | Propeller | Propeller | Propeller |
| No. used | | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| Drive Type | | Direct | Direct | Direct | Direct | Direct | Direct | Direct |
| Nominal Airflow | cfm (cmh) | 4885 (8300) | 5768 (9800) | 6828 (11600) | 9770 (16600) | 11536 (19600) | 13537 (23000) | 13537 (23000) |
| MOTOR | | | | | | | | |
| No. of Motor | | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| Motor Output | Watt | 290 | 420 | 300 | 290 | 420 | 300 | 300 |
| No. of Speed | | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Motor Speed | rpm | 750 | 830 | 875 | 750 | 830 | 875 | 875 |
| V/ph/Hz | | 380/3/50 | 380/3/50 | 380/3/50 | 380/3/50 | 380/3/50 | 380/3/50 | 380/3/50 |
| RLA/LRA | | 1.06 / 2.27 | 1.41 / 3.53 | 1.32 / 2.80 | 1.06 / 2.27 | 1.41 / 3.53 | 1.32 / 2.80 | 1.32 / 2.80 |
| DIMENSION (HxWxD) | | | | | | | | |
| Uncrated (Net) | mm | 1,050 x 950 x 1,060 | 1,050 x 950 x 1,060 | 1,050 x 950 x 1,060 | 1,050 x 2,200 x 1,050 |
| WEIGHT | | | | | | | | |
| Uncrated (Net) | | 164 | 180 | 192 | 382 | 415 | 428 | 462 |

Note: Product design and specification are subject to change without notice.

3 SSA5-SLB003-R407C-EN

MCA - Minimum Circuit Ampacity.
 There is holding charge of refrigerant and N₂ from factory. However, when install the unit, system must be vacuumed and recharged refrigerant in the field.
 For TTA150-240, Dual refrigerant circuits are standard for Export.

Features and Benefits

TOM

TTA075-120ED



TTA075-120ED (Option)



TTA150-240ED



Mirco processor controller (Option)



TTH075-100ED



TWE120-240ED

TTA Condensing Units

Standard Feature

- Powder paint finish.
- · Innovative cabinet design.
- · Refrigerant accessories as standard.
- Single and dual compressors

Optional

- Stainless casing / Copper fin / Blue fin / Aeris coating
- Dual circuits (Thailand) or manifolding single circuit (Export) for TTA150-240ED
- Horizontal air discharge (for TTA075-120)
- Mirco Processor controller
- Wire Guard.

Benefits

- Full covering of all edges and a uniform paint finish for a smooth, attractive and durable cabinet exterior.
- The most attractive light commercial condensing unit available.
- Each unit ships standard with the liquid and suction lines shut-off valve, hi-low pressure controls, liquid line filter drier.
- Optimized operation and reduced service time.
- Designed to provide corrosion protection on sea coast application.
- Dual circuits allow for comfort during service time.
- Flexible application when vertical space limited.
- Troubleshooting status display helps reduce service time.
- Extend compressor life time by balancing compressors loading.
- · Protect coil from delivery damage.

TTH/TWE Air Handler Units

Standard Features

- 500 mm in height (TTH075-100).
- · Excellent drain pan.
- Belt drive.
- Factory installed mounting channel (TTH075-100).
- Quiet operation.

Optional

• Convertible for horizontal or vertical configuration (TWE120-240).

Return air grille (for TWE model only).

Stainless casing / Copper fin /

• Thermal expansion valve.

Discharge Plenum.

High static motor.

Blue fin / Aeris coating

Benefits

- Designed to fit easily into tight ceiling spaces.
- Specially designed drain pan with a deep pitch to catch and drain water safely away.
- Fully adjustable airflow for application versatility and ease of servicing.
- Supports the unit from below, and saves time and money for the installer.
- Well-insulated cabinet with fire retardant Polyethylene foam and wide forward curved fans.
- Maximum application flexibility without the extra inventory of dedicated models.
- For maximum application flexibility and performance, capacity modulation provides improved comfort and backup in the event of a malfunction with one circuit.
- Designed for free blow application.
- For high static pressure applications.
- Designed to provide corrosion protection on sea coast application.













Trane optimizes the performance of home and buildings around the world. A business of Ingersoll Rand, the leader in creating and sustaining safe, comfortable, and energy efficient environments, Trane offers a broad portfolio of advance controls and HVAC systems, comprehensive building services, and parts. For more information, visit www.tranethailand.com

เทรน(ประเทศไทย)

เลขที่ 1126/2 ขั้น 30-31 อาคารวานิข 2 ถ.เพชรบุรีตัดใหม่ แขวงมักกะสัน เขตราชเทวี กรุงเทพฯ 10400 **โทร. 0-2704-9999**

