



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 (TTA180-240)

- The key to this system is an oil equalized line connecting the two compressors. In addition, the discharge lines are simply manifolded together.
- 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 (Option)

Trane air handler (TWE Model) can easily be converted for vertical or horizontal airflow in free blow and ducted applications. Please refer to TWE specification sheet for your further reference if needed.

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 cfm	Total Capacity MBH	Sensible Capacity MBH
Outdoor	Indoor			
TTA075ED	TTH075ED	2,000	72	45
		2,500	75	49
		3,000	78	52
TTA100ED	TTH100ED	2,700	96	62
		3,400	100	68
		4,100	103	72
TTA120ED	TTH120ED	3,200	115	75
		4,000	120	82
		4,800	124	88
TTA150ED	TTH160ED	4,300	145	103
		5,300	150	114
		6,300	156	120
TTA180ED	TTH180ED	4,800	171	110
		6,000	180	120
		7,200	185	130
TTA200ED	TWE210ED	5,600	193	135
		7,000	200	150
		8,400	207	160
TTA240ED	TWE240ED	6,400	227	140
		8,000	240	151
		9,600	250	161

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



Designed With Your Needs In Mind

General Data-Air Handler Units

UNIT MODELS		TTH075ED	TTH100ED	TTH120ED	TTH160ED	TTH180ED	TTH210ED	TTH240ED
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
MCA¹		A	2.5	4.6	4.6	4.6	6.4	10.0
SYSTEM DATA								
Refrigerant Type			R407C	R407C	R407C	R407C	R407C	R407C
No. Refrigerant Circuits			1	1	1	2	2	2
Refrigerant Connection Type			BRAZE	BRAZE	BRAZE	BRAZE	BRAZE	BRAZE
Suction Line OD		in (mm)	1 1/8 (28.58)	1 3/8 (34.93)	1 3/8 (34.93)	1 5/8 (41.3)	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)	5/8 (15.9)	1/2 (12.7)	1/2 (12.7)
COIL								
Fin Type			UNCOATED SLIT	UNCOATED SLIT	UNCOATED SLIT	UNCOATED SLIT	UNCOATED SLIT	UNCOATED SLIT
Fins per inch			15	15	15	14	14	14
Refrigerant Flow Control			THERMOSTATIC 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)
Drain Connection Type			STEEL PIPE - MPT					
FAN								
Fan Type			DOUBLE INLET CENTRIFUGAL WITH FORWARD CURVED WHEEL					
Qty			1	2	2	2	2	2
Drive Type			BELT-ADJUSTABLE DRIVE					
MOTOR								
No. of Motor			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)	5 (3.7)
No. of Speed			1	1	1	1	1	1
Motor Speed		rpm	1400	1405	1405	1405	1425	1440
RLA/LRA		A	1.99 - 11.0	3.66 - 21.0	3.66 - 21.0	3.66 - 21.0	5.08 - 34.0	8.03 - 63
FILTER								
Type			WASHABLE AIR FILTER					
DIMENSION (HxWxD)								
Uncrated (Net)		mm	520x1,406x916	520x1,774x916	620x1,774 x916	798x2,059x1,260	798x2,059x1,260	850x2,440x1,515
WEIGHT								
Uncrated (Net)		kg	92	136	141	180	189	214
							214	225

¹MCA - Minimum Circuit Ampacity

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General Data-Condensing Units

UNIT MODELS		TTA075ED	TTA100ED	TTA120ED	TTA150ED	TTA180ED	TTA200ED	TTA240ED
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	17.94	25.20	29.83	31.45	37.73	48.98	53.93
SYSTEM DATA								
Refrigerant Type ²		R407C	R407C	R407C	R407C	R407C	R407C	R407C
Refrigerant Connection Type		BRAZE	BRAZE	BRAZE	BRAZE	BRAZE	BRAZE	BRAZE
No of Refrigerant Circuit		1	1	1	1	1*	1*	1*
Suction Line OD	in (mm)	1 1/8 (28.58)	1 3/8 (34.93)	1 3/8 (34.93)	1 5/8 (41.28)	1 5/8 (41.28)	1 5/8 (41.28)	1 5/8 (41.28)
Liquid Line OD	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						
Qty		1	1	1	1	2	2	2
RLA/LRA	A	13.5 / 84.0	19.2 / 140.0	22.9 / 145	24.2 / 175.0	15.7 / 130.0	20.7 / 130.0	22.9 / 145
COIL								
Fin Type		Uncoated Corrugate						
Fins per inch		16	16	16	16	16	16	16
FAN								
Fan Type		Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
Qty		1	1	1	1	2	2	2
Drive Type		Direct	Direct	Direct	Direct	Direct	Direct	Direct
Nominal Airflow ²	cfm (cmh)	4885 (8300)	5768 (9800)	6828 (11600)	8212 (13950)	11536 (19600)	13537 (23000)	13537 (23000)
MOTOR								
No. of Motor		1	1	1	1	2	2	2
Motor Output	Watt	290	300	300	300	300	300	300
No. of Speed		1	1	1	1	1	1	1
Motor Speed	rpm	750	875	875	875	875	875	875
RLA/LRA	A	1.06 / 2.27	1.2 / 2.80	1.2 / 2.80	1.2 / 2.80	1.2 / 2.80	1.2 / 2.80	1.2 / 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	1,250 x 950 x 1,060	1,050 x 2,200 x 1,050	1,050 x 2,200 x 1,050	1,050 x 2,200 x 1,050
WEIGHT								
Uncrated (Net)	kg	164	180	192	245	415	428	462

¹ MCA - Minimum Circuit Ampacity.

² There is holding charge of refrigerant from factory. However, when install the unit, system must be vacuumed and recharged refrigerant in the field.

* For TTA180-240, Dual refrigerant circuits are standard for Export.

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TTA075-150ED



TTA075-120ED (Option)



TTA150-240ED



Micro processor controller (Option) Phase Protector



TTH Model



TWE Model



Trane Multi-Stage Thermostat (Option)

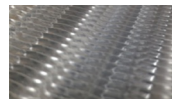


1, 2, 4 Stage Thermostat - Digital Display (Option)

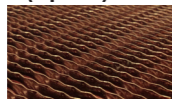


1 or 2 Stage Thermostat - Without Display (Option)

Aeriscoat R (Option)



Before Coated



After Coated & Curing



AHU Starter Panel (Option)



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

ทราน (ประเทศไทย)

เลขที่ 1126/2 ชั้น 30-31 อาคารวานิช 2 ถ.เพชรบุรีตัดใหม่ แขวงมักกะสัน เขตราชเทวี กรุงเทพฯ 10400
☎ 0-2704-9999

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Features and Benefits

TTA Condensing Units

Standard Features

- Powder paint finish.
- Innovative cabinet design.
- Refrigerant accessories as standard.
- Single and dual compressors
- Digital under / over voltage and phase protection device

Optional

- Stainless casing / Copper fin / Blue fin
- Dual circuits (Thailand) or manifold single circuit (Export) for TTA180-240ED
- Horizontal air discharge (for TTA075-120)
- Micro 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.
- Protect compressor damage from unstable electrical source or mis-phase connection
- 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 (TTH060-240).
- Quiet operation.
- Thermal expansion valve.

Optional

- TWE model as vertical configuration application (as option for TTH120-240)
- Discharge Plenum.
- Return air grille (for TWE model only).
- High static motor.
- Stainless casing / Copper fin / Blue fin

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.
- For maximum application flexibility and performance, capacity modulation provides improved comfort and backup in the event of a malfunction with one circuit.
- Provide more application flexibility.
- Designed for free blow application.
- For high static pressure applications.
- Designed to provide corrosion protection on sea coast application.

Trane Multi-Stage Thermostat controlled by micro processor is available for 1, 2 and 4 stage monitor, 7-segment display, 15°C-30°C temperature setting, connectable with the external sensor & auto-restart function with ON/OFF switch.

Aeriscoat R removes and protects all microorganisms, biofilm & corrosion in one step certified by CSIRO & approved by USEPA. The effectiveness lasts 5 years and reduces maintenance. Applicable to coil in heat exchanger & evaporator especially for use in humid climate, seaside, factories, hotels, etc.

Trane 1,2,4 Stage Thermostat provides with & without display, operation control of chilled water fan coil and AHU, 16°C - 30°C temperature setting, 4-level compressor monitor & display of compressor status.

Trane AHU Starter Panel particularly controls the HVAC system. Integrated with motor and compressor protection system, reliable according to UL/IEC/NEMA standard and easy to install



Odyssey

Split System 6-20 Tons
Light Commercial TTA / TTH / TWE
Series R407C, 50 Hz

